

ΑΔΙΑΒΑΘΜΗΤΟ ΕΠΕΙΓΟΝ

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ

Μόνιμη Αντιπροσωπεία της Ελλάδος

στο ΝΑΤΟ

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ΠΡΟΣ:	ΥΠΕΘΑ/ΓΔΑΕΕ/ΔΑΕΤΕ		(μ. ΓΕΕΘΑ)
KOIN.:	ΥΠΕΞ/Δ' Γεν. Δ/ντη ΥΠΕΞ/Δ2 Δ/νση ΓΕΕΘΑ/Γ2 Υπουργείο Ανάπτυξης		(μ. ΓΕΕΘΑ)
	/Γενική Γραμματεία Εμπορίου Πλ.Κάνιγγος		(μ.η.)
	Υπουργείο Ανάπτυξης /Γενική Γραμματεία Βιομηχανίας /Δνση Διεθνών Βιομηχανικών Σχέσεων Πλ.Κάνιγγος		(μ.η.)
	Τεχνικό Επιμελητήριο Ελλάδος /Δνση Ε Επαγγελματικής Δραστηριότητας, Νίκης 4		(μ.η.)

ΘΕΜΑ: <u>2ⁿ</u> Τροποποίηση Πρόσκλησης Υποβολής Προσφορών IFB-CO-14314-IEG-C Διαγωνιστικής Διαδικασίας : «Provision of Information Exchange Gateway (IEG-C) Between NATO SECRET and MISSION SECRET Domains»

1. Διαβιβάζεται, συνημμένως, 2^η Τροποποίηση Πρόσκλησης Υποβολής Προσφορών (Invitation for Bids/IFB) και σχετικά αυτής, για εν θέματι διαγωνιστική διαδικασία, εκ μέρους NCIA, ως φιλοξενούντος έθνους.

2. Καταληκτική ημερομηνία υποβολής προσφορών ορίζεται πλέον η <u>Δευτέρα, 10^η Μαΐου τ.έ,</u> <u>13:00 τ.ώ.</u>

3. Ενδιαφερόμενες εταιρίες αναζητήσουν πληροφορίες μέσω καθοριζομένου σημείου επαφής (Point of Contact/POC) (βλ. παρ. k τροποποιήσεως).

4. Παρακαλούμε για τις ενέργειές σας.

λαμπρίδης

Συν. Σελ: 890

ΑΚΡΙΒΕΣ ΑΝΤΙΓΡΑΦΟ Ο υπάλληλος της Μ.Α. ΝΑΤΟ Σταύρος Τσάκωνας ΕΠ&ΠΛ.Α΄



Acquisition Directorate

Boulevard Léopold III B-1110 Brussels, Belgium

> NCIA/ACQ/2021/ 06685 12 March 2021

То	:	All Nominated Prospective Bidders
Subject	:	AMENDMENT 2 TO INVITATION FOR BID – IFB-CO-14314-IEG-C
Reference(s)	:	 The Provision of Information Exchange Gateway (IEG-C) Between NATO SECRET and MISSION SECRET Domains A. AC/4-D/2261 (1996 Edition) B. AC/4-D/2261-ADD2 (1996 Edition) C. AC/4-D(2008)0002-REV2 dated 5 July 2015, Best Value Evaluation Methodology D. AC/4(PP)D/27045-ADD1 E. AC/4(PP)D/27045-ADD2 F. AC/4-DS(2015)0018 G. AC/4-DS(2018)0021 H. NCIA/ACQ/2018/1858 NOI IFB-CO-14314-IEG-C dated 17 December 2018 I. NCIA/ACQ/2020/6225 NOI IFB-CO-14314-IEG-C, Amendment 1 dated 27 February 2020 J. NCIA/ACQ/2020/6803 NOI IFB-CO-14314-IEG-C, Amendment 2 dated 18 June 2020 K. NCIA/ACQ/2020/12813 NOI IFB-CO-14314-IEG-C, Amendment 3 dated 3 November 2020 L. NCIA/ACQ/2020/12900 IFB Release dated 23 December 2020 M. AC/4(PP)D/27045-ADD3, dated 14 January 2021. N. AC/4-DS(2021)0001, dated 9 February 2021

O. NCIA/ACQ/2021/06601, Amendment 1 dated 18 February 2021

Dear Madam/Sir,

- **a.** The purpose of this Amendment 2 is to publish the responses to the Clarification Requests (CRs) received and to publish responses to questions asked during the Bidders Conference held on 3 March 2021. Any CRs not addressed in this Amendment 2, will be rolled over into the subsequent Amendment for a response.
- **b.** Please note the following important information:
 - **a.** The Bid Closing Date has been extended. Please see paragraph 4 of this letter for the new Bid Closing Date.
- **c.** As a direct or indirect result of these CRs, the following documents have been amended and are re-issued in its entirety. Prospective Bidders are strongly advised to carefully review the revised documents. The changes within the bidding documents are denoted in **red** for ease of traceability.
 - a. Book I: Bidding Instructions
 - **b.** Book I: Bidding Sheets, Annex A-1
 - c. Book I: Bidding Sheets Instructions, Annex A-2
 - d. Book I: BCRM, Annex D



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- e. Book I: Security Test and Verification Plan (STVP)-Annex F-1
- f. Book I: System Interconnection Security Requirement Statement (SISRS)- Annex F-2
- g. Book II: Contract Special Provisions
- **h.** Book II: Service Level Agreement (SLA) For The Provision Of Reach Laptops In Accordance with Article 34 Of The Contract Special Provisions- Annex B
- i. Book II: Statement of Work
- j. Book II: Statement of Work Annex A SRS
- **e.** The closing date for submission of bids in response to this Invitation For Bid is changed as follows:

FROM:

13:00 hours (Brussels Time) on Monday, 29 March 2021

то:

13:00 hours (Brussels Time) on Monday, 10 May 2021

- **f.** With the exception of the revisions mentioned above, all other IFB documents remain unchanged from their original version as issued on 23 December 2020.
- g. The overall security classification of this IFB is «NATO UNCLASSIFIED».
- **h.** This Invitation for Bid and any Amendment thereto remains the property of the NCI Agency and shall be protected in accordance with the applicable national security regulations.
- i. This Invitation for Bid does not constitute either a financial or contractual commitment at this stage.
- **j.** Prospective Bidders are advised that the NCI Agency reserves the right to cancel, withdraw, or suspend this IFB at any time in its entirety and bears no liability for bid preparation costs incurred by firms or any other collateral costs if bid cancellation, withdrawal, or suspension occurs.
- **k.** Please send all questions concerning this IFB to the undersigned at:

Eva Benson, Contracting Officer

E-mail: eva.benson@ncia.nato.int

For the Director of Acquisition

En Benne

Eva Benson Contracting Officer

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Enclosure: Attachment 1: Clarification Requests Answers, Amendment 2 Attachment 2: Bidders Conference Answers, Amendment 2 Attachment 3: Book I: Bidding Sheets- Annex A-1, Amendment 2 Attachment 4: Book I: Bidding Sheets Instructions- Annex A-2, Amendment 2 Attachment 5: Book I: Security Test and Verification Plan (STVP)-Annex F-1, Amendment 2 Attachment 6: Book I: System Interconnection Security Requirement Statement (SISRS)- Annex F-2, Amendment 2 Attachment 7: Book I: BRCM- Annex D, Amendment 2 Attachment 8: Book II: Contract Special Provisions, Amendment 2 Attachment 9: Book II: Service Level Agreement (SLA) For The Provision Of Reach Laptops In Accordance with Article 34 Of The Contract Special Provisions- Annex B, Amendment 2 Attachment 10: Book II: Statement of Work, Amendment 2

Attachment 11: Book II: Statement of Work Annex A, SRS, Amendment 2



Distribution List:

All Nominated Prospective Bidders	1
NATO Delegations (Attn: Infrastructure Adviser):	1
Embassies in Brussels (Attn: Commercial Attaché):	
Albania	1
Bulgaria	1
Canada	1
Croatia	1
Czech Republic	1
Denmark	1
Estonia	1
France	1
Germany	1
Greece	1
Hungary	1
Iceland	1
Italy	1
Latvia	1
Lithuania	1
Luxembourg	1
The Netherlands	1
Norway	1
Poland	1
Portugal	1
Romania	1



Slovakia	1
Slovenia	1
Spain	1
Turkey	1
United Kingdom	1
United States (electronic copy to brussels.office.box@mail.doc.gov)	1
Belgian Ministry of Economic Affairs	1

IFB-CO-14314-IEG-C

ANNEX E CLARIFICATION REQUEST FORM

ADMINISTRATION or CONTRACTING							
Serial Nr	IFB BOOK	IFB Section Ref.	QUESTION	ANSWER	Status		
A.1	воок і	1.3.1.1	In Bidding Instruction, point 1.3.1.1 states, that FSA (Final System Acceptance) is scheduled for 28 months after signing the contract, while in project milestones, BOOK II, PART IV, point 3.2.3 [SOW-24] FSA is scheduled for EDC + 27mo. Which term is correct?	NCIA concurs the 'EDC +' is 27 Months.	AMD 2		
A.2	BOOK II – PART III	8.2	In BOOK II – PART III, point 8.2 states, that the Performance Guarantee will expire at the end of the warranty period. Therefore, if any of the elements will be subject to repair or replacement and its warranty period will be renewed for the next 12 months (BOOK II – PART III, point 27.4), will the period of Performance Guarantee also be extended?	NCIA confrims that the Performance Guarantee is for the entire period of performance of the contract.	CLOSED		
A.3	воок і	ANNEX C	In BOOK I - ANNEX C, in the sections F and I there are references to paragraphs 4 and 6, but this annex does not have them. Please indicate the correct references.	NCIA revises 'F' to state from paragraph 4 to paragraph 'D' and I is revised from paragraph 6 to paragraph 'F".	AMD 2		
A.4	11	Contract Special Provisions 9.1	The wording "The supplies and services to be provided by the Contractor's personnel under this Contract shall conform to the highest professional and industry standards and practices", suggests unclear and/or unreasonable high/uncertain deliverables. Question:	NCIA does not fully understand the question as it is unclear what is being asked. The scope of the requirement is clearly defined.	CLOSED		

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			Do you agree that the contractually defined scope of deliverables comprises fully and finally any and all aspects with regard to quality and quantity of deliverables?		
A.5	11	Contract Special Provisions 12.11	Section 12.11 states: " <i>The Purchaser is released from</i> <i>paying any interest resulting from any reason</i> <i>whatsoever.</i> " Question: Do we understand correctly that this clause relieves Purchaser from any claim for interest even if the Purchaser is in default?	NCIA confirms this is correct.	CLOSED
A.6	11	Contract Special Provisions 23.1 and 23.2	 Section 23.1 states: "If any COTS products specified in the Contract are upgraded or discontinued by their original providers for commercial or technological reasons, the Contractor shall propose their substitution by the new versions that are intended as market replacement of the original products. The proposed items shall provide an equivalent or enhanced performance without a price or life-cycle support cost increase.". Question: Pease clarify if this clause requires a substitute COTS product for unchanged commercial conditions or if sec. 23.2 opens up reasonable adjustments in such cases. The bidder assumes that the COTS product replacement conditions apply during the project lifetime only. Please confirm. 	NCIA confirms that the Special Provisons listed in the IFB will be part of the future contract and only for the period of performance of the awarded contract.	CLOSED
A.7	11	Contract Special Provisions 1	Section 2 "The order of precedence" does not include the Contractor's proposal, as this was the case in previous RFPs and contracts. Question: The Contractor therefore requests to include its proposal in the order of precedence in the last position as: "The Contractor's Bid including any clarifications thereto,	NCIA confirms that the Order of Precedence, 2.1 (f) states 'The Contractor's Bid including any clarifications thereto, incorporated by reference, and the formal documentation of pre-Contract discussions.'	CLOSED

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			incorporated by reference." Please confirm.		
A.8	Book I	2.4.1	 An extension to the bid submission date, currently 29 March 2021, of 21 days (minimum) is requested. Our reasoning behind the extension request is as follows: the bidders' conference was held quite late on 3 March 2021 the next Amendment – that will address the first round of questions and questions raised during the bidders' conference – is not expected until the week of 10 March 2021, not leaving enough time to review the modifications, address responses appropriately and eliminates the ability to ask and receive responses to any additional clarification questions that may arise The request has also been submitted previously to our Delegation – initial email sent on 1 March 2021. 	NCIA shall grant in accordance with AC/4-D/2261 Final (July 1996 Edition) the 21 day extension. In addition, NCIA shall grant additional time besides the 21 days changing the Bid Closing Date from 29 March 2021 at 13:00 Brussels Local Time to 10 May 2021 at 13:00 Brussels Local Time.	AMD 2

Index IFB ver	rsion	Nature	IFB part	IFB section	Question	Answer	Status
Τ1 Ν	v1	Technical	Book II Part IV	1.2.5	is windows a requirement or Linux an alternative?	There is no requirement to run the web or mail guards exclusively on Windows in the SRS. Normal security accreditation processes will apply. There is no exclusion for Linux in the SRS, as it is included in the NATO AFPL. However, any solution should be future proof and the integrator or appliance provider should manage updates and patches.	Closed
Τ2 Ν	vl	Technical	Book II Part IV Annex A	SRS-6-140 SRS-6-502 SRS-6-191 SRS-7-170 SRS-7-197	According to many specifications, e.g. SRS-6-140 and SRS-7-170, it is required that the design and functionality of the Web and Mail Guard MUST or SHALL conform to the NATO CIPE functional specification in [NC3A TN-1486, 2012]. All requirements including the TN-1486 are unusually specific not only about the architecture in general but also regarding many detailed technical aspects that are not necessarily relevant from a security or user perspective. Those requirements make a lot of existing COTS solutions non-compliant and would force the vendor to make significant changes to their products that seem neither possible in the given time frame nor financially interesting. Questions: 1.) Are proposals excluded, if their technical solutions provide all functions and capabilities as required in the SRS, however are not conform totally to specific architecture and detailed technical requirements? 2.) Is NCIA willing to accept solutions and architectures based on COTS products as being compliant when the requested functional requirements and capabilities are fulfilled? If so, the bidder kindly requests NATO to amend the named SRS requirements accordingly.	 1) Proposals are excluded when they do not meet the mandatory requirements of the SRS. 2) NCIA are willing to accept solutions are architectures based on COTS products that meet the mandatory requirements of the SRS. Requirements SRS-6-140, SRS-6-502, SRS-6-191, SRS-7-170, SRS-7-197 changed from SHALL to SHOULD. An additional requirement will be introduced following SRS-6-140, SRS-6-191 and SRS 7-170: SRS-X-YY1: If WG_CIPE does not conform to the NATO CIPE functional specification in [NC3A TN-1486, 2012], the proposed functional specification of the WG_CIPE SHALL be described in the bid response. In additional requirement will be introduced following SRS-6-140 and SRS-6-191 SRS-X-YY2: The WG_CIPE SHALL be able to be configured to support the "Content Inspection Policy Enforcement Profile for a Medium Assurance NATO XML-Labelling Guard" [NC3A TR/2012/SPW007959/03]. 	AMD2
Τ3 ν	v1	Technical	Book II Part IV Annex A	SRS-4-225	SRS-4-225 requests: "Unless otherwise identified during the Site Survey [SOW-673], the IEG-C and all of its components SHALL be certified to TEMPEST Level C, as defined in [SDIP-27/2]." Questions: 1.) Is the assumption correct that all NATO PFE hardware complies already with SRS-4-225? 2.) If not, does NCIA expect the bidder to verify NATO PFE hardware for its compliance to TEMPEST Level C? 3.) If it should not be compliant does NCIA expect the bidder to harden the hardware such it complies with TEMPEST Level C?	PFE for hardware is not applicable any more due to IFB AMD1. SRS-4-225 is still valid. Hardening is also a valid approach for any required COTS hardware.	AMD1
Τ4 Λ	v1	Technical	Book II Part IV	SOW, Section Verification and validation of Interoperability Solutions through Testing, p. 52	The section reads: "C3 Capabilities and ICT Services shall have their interfaces pass NATO level C3 Interoperability tests; this testing shall be between NATO, NATO Nations and Partners Nations C3 Capabilities and ICT Services interfaces, based on the NATO agreed standards and profiles that are contained within the NISP. The testing shall include assessment, analysis, evaluation, verification, validation and up to, but not including, the certification of C3 Capabilities and ICT Services." Questions: 1.) What kind of certification is meant here?	Requirement deleted in Amd2	AMD2

2.) What exactly do you mean by "... up to, but not including, the certification of ..."?

3.) Should the testing for a certification be considered and executed by the bidder or not?

4.) Are WebGuard and MailGuard equally meant and treated for the certification?

T5 v1 Technical Book II Part IV SRS-7-424 SRS-7-424 requires the EAL4+ evaluation of the Mail Guard. In the case no COTS products with EAL4+ certification can be used due to the requirements OR existing products would need a new evaluation due to major changes, the bidder considers the given time frame as unrealistic for this evaluation. Questions: 1.) Is the bidder expected to drive the EAL4+ evaluation within the project scope and projec	uivalent) evaluated quirements or approval or alternate products
"PKE module shall be evaluated according to" https://roadmap.nr.ncia/English/AC-322-D-0047 Questions: 2) We do accept national certifications. According 1.) The evaluation of a cryptographic module is very time consuming. Can we assume that NCIA Operating Sys-tems are certified based on one of	
the evaluation bit, but not to every technical detail? Especially if it is already part of a COTS product that fulfils NCIA's requirements in general? 2.) Does NCIA accept an evaluation by a NATO nation's security accreditation authority instead of the mentioned criteria?	-REV2.pdf g to D0048 f the below: Common Criteria; or
T7 v1 Technical Book II Part IV SOW-24 In the notional schedule the project milestones are defined. The factory acceptance test (FAT) is scheduled for EDC+9 months, which leaves based on our experience roughly six months for the engineering work to the contractor. The project plan is fixed, but if certain unforeseenering work to the contractor. From the bidder's point of view this is a high risk to the contractor and the purchaser as the required functions might not be ready for FAT. Question: 1.) Is the given project plan fix or can it be adapted according to the results of the site surveys and the design reviews by the bidder? The project plan is fixed, but if certain unforeseenering work to the contractor.	
T8 v1 Technical Book II Part IV SOW-58 The contractor SHALL deliver all documentation according to SECTION 10 seven months in advance of the expected "Acceptance of IEG-C security accreditation package Milestone" in order to have NSAB approved deliverables before commencing WP 3 / Installation of gateways. The project plan has reserved 7 months for accred to have NSAB approved deliverables before commencing WP 3 / Installation of gateways. The project plan has reserved 7 months for accred to have NSAB approved deliverables before commencing WP 3 / Installation of gateways. The project plan has reserved 7 months for accred to have NSAB approved deliverables before commencing WP 3 / Installation of gateways. This puts a lot of pressure to the project schedule and the delivery of documentation. We deem these deadlines unrealistic. Contractor and keeping continuity throughout th (no key team members changes) Question: 1.) Could you please specify your thoughts with this timeline? 1.) Could you please specify your thoughts with this timeline?	ised by forming a EACH laptops to the
T9 v1 Technical BOOK II - PART IVSTATEMENT OF WI [SRS-4-44] How is the data transported (HTTP?) The IEG-FS XMPP capability transports data using Note that the Information Exchange Gateway Fu (IEG-FS) is now known as the Data-centric Inform Gateway (DISG).	nctional Services
T10 v1 Technical BOOK II - PART IVSTATEMENT OF WI [SRS-4-44] How is the data formatted (XML?) The IEG-FS XMPP capability handles XML formatt Note that the Information Exchange Gateway Fu (IEG-FS) is now known as the Data-centric Inform Gateway (DISG).	nctional Services
T11 v1 Technical BOOK II - PART IVSTATEMENT OF W([SRS-4-45] How is the data transported (HTTP?) The IEG-FS TL capability transports data using F Note that the Information Exchange Gateway Fue (IEG-FS) is now known as the Data-centric Inform Gateway (DISG). Gateway (DISG).	nctional Services
T12 v1 Technical BOOK II - PART IVSTATEMENT OF WI [SRS-4-45] How is the data formatted (XML?) The IEG-FS TDL capability handles XML formatted Note that the Information Exchange Gateway Fu (IEG-FS) is now known as the Data-centric Information Improvements in the Improvement Improvements in the Improvement I	nctional Services nation Services
T13 v1 Technical BOOK II - PART IVSTATEMENT OF WI [SRS-4-46] How is the data transported (HTTP?) The IEG-FS FFT capability transports data using H	ITTP. Closed Inctional Services nation Services

T14	v1	Technical	BOOK II - PART IVSTATEMENT OF V	/! [SRS-4-46]	How is the data formatted (XML?)	The IEG-FS FFT capability handles XML formatted data. Note that the Information Exchange Gateway Functional Services (IEG-FS) is now known as the Data-centric Information Services Gateway (DISG).	Closed
T15	v1	Technical	BOOK II - PART IVSTATEMENT OF W	/([SRS-6-23]	Presumably this means B.3 not A.3	The correct reference for the Web Guard SIPs is B.3.	AMD2
T16	v1	Technical	BOOK II - PART IVSTATEMENT OF V	/! [SRS-6-203]	Under which circumstances should a filter be halted? Some products will run all content filters to completion and then make a decision based on the overall set of filters	Under circumstances defined by SRS-6-145, 6-152	AMD2
T17	v1	Technical	BOOK II - PART IVSTATEMENT OF V	// [SRS-6-346]	Why is there a need to support multiple mechanisms of sending log data? Is it acceptable to only support one of these methods?	The operation 'Log' SHALL SMC Messages of one or more of the following types. Note, see also [SRS-7-398].	AMD2
T18	v1	Technical	BOOK II - PART IVSTATEMENT OF V	// [SRS-6-510]	Is this checking for malware in these attributes or using the attributes to decide whether or not to run the check	The requirement refers to the use of the attributes to determine whether a HTTP message can be excluded from malware scanning (see [SRS-6-506]). Note, that malware scanning is applicable to an HTTP Message headers and body (see [SRS-6-509]).	Closed
T19	v1	Technical	BOOK II - PART IVSTATEMENT OF W	// [SRS-7-172]	The order of the actions does not appear to be specified	The wrong reference is provided. Corrected to [SRS-7-187].	AMD2
T20	v1	Technical	BOOK II - PART IVSTATEMENT OF W	/([SRS-7-217]	Is this correct. If any label check passes, the message is OK - what if another one fails in the same message?	This is correct. Different emails may have different label or marking formats	Closed
T21	v1	Technical	BOOK II - PART IVSTATEMENT OF W	/([SRS-7-326]	OCSP is a MAY requirement for Web Guard - why is it a SHALL requirement for Mail?	OSCP is also a MAY requirement for the MG (see SRS-507].	AMD2
T22	v1	Technical	BOOK II - PART IVSTATEMENT OF W	/([SRS-7-357]	Supporting only one of these is a MUST requirement for Web Guard, why is it ALL for Mail?	[SRS-7-357] revised and aligned with WG requirement [SRS-6-304]	AMD2
T23	v1	Technical	BOOK II - PART IVSTATEMENT OF V	/I SRS General	These requirements are likely to require new Mail Guard, Web Guard and Web Proxy to be developed since they contain implementation details that no existing product is likely to meet.	NATO will accept implementing the IEG-C with proven COTS products, if they fulfill the security and functional requirements.	Closed
					Would NATO consider implementing the required functionality for the Mail Guard, Web Guard and Web Proxy with proven COTS products that implement the required functionality but with a different implementation ?		
Т24	Amd1	Technical	Book II Part IV SOW Annex A	Section 7.3.2 and Section 7.3.3	There appears an inconsistency in the wording of the operations that must be performed for Enforce HL Business Support CIP and Enforce LH Business Support CIP. For HL step 1 states "contains only MIME types allowed by the CIP", but for LH step (i) states "contains only attachments allowed by the CIP". For one the wording "MIME types" is used, for the other the wording "attachment" is used.	"Attachments" is the correct terminology. Section 7.3.2 will be updated to align with section 7.3.3. There is no change to any requirements	AMD2
					Please clarify which is the correct terminology, or if different terminology has been used deliberately.		
T25	Amd1	Technical	Book II Part IV SOW Annex A	Section 6.5.4, 6.7.4, 7.7.4	SRS-6-182 and SRS-7-326 states OCSP is a SHALL requirement, but SRS-6-273 and SRS-7-507 states OCSP is a MAY requirement. Can you please clarify whether the use of OCSP for certificate validation is a SHALL or a MAY requirement?	OCSP is a MAY requirement. SRS-6-182 allows the use of validation by OCSP or by local certification path validation. SRS-7-326 has been updated.	AMD2
Т26	Amd1	Technical	Book II Part IV SOW Annex A	Section 7.6.1	SRS-7-198 appears to be an incomplete sentence, could you please clarify whether it is correct as written?	The requirement has been truncated. SRS-7-198 will be updated to contain the complete requirement.	AMD2
T27	Amd1	Technical	Book II Part IV SOW Annex A	Section 7.6.1.1.1	SRS-7-218 states "The subordinate Label validation capability MG_CIS_LV_STANAG SHALL ensure that a valid and allowable STANAG 4774 confidentiality label is bound with a valid and allowable STANAG 4778 Metadata Binding to every email message." It is unclear what "valid and allowable" means, can you please provide clarification?	Valid STANAG 4774 – valid against the STANAG 4774 XML schema and valid against the security policy identified in the confidentiality label e.g. it contains valid classification and category values. Allowable STANAG 4774 – allowed by the CIP valid Valid STANAG 4778 – valid against the STANAG 4778 XML schema allowable STANAG 4778 – not applicable – the requirement will be updated.	AMD2
						upuareu.	

T29	Amd1	Technical	Book II Part IV SOW Annex A	Section 7.5.1.2.2, 7.5.1.3.2, 7.5.3.2, 7.5.3.3	Sections 7.5.1.2.2, 7.5.1.3.2, 7.5.3.2, and 7.5.3.3 appear as though they do not fit together as we would expect and there may be some confusion over terms used. For example, SRS-7-98 contains the following terminology: MG_IFP_SOA_HL, however SOA is a Web Guard term and this exact terminology appears nowhere else within the documentation, whereas WG_IFP_SOA_HL appears multiple times in the Web Guard sections. Additionally, IEG-C_CIP_BS_EMAIL_HL is referenced in several places of section 7.5.3.2, but IEG-C_CIP_BS_EMAIL_HL isn't defined anywhere. However, the equivalent for Low to High, IEG-C_CIP_BS_EMAIL_HL is defined in section 7.5.1.3.2. Could you please look at the aforementioned sections and clarify whether the requirements contained within are written as intended and are using the appropriate and properly defined terminology relevant to the Mail Guard element of this IFB.		AMD2
T30	Amd1	Technical	Book II Part IV SOW Annex A	Section 6.5.3.1 SRS-6-140 Section 6.6.1 SRS-6-191 Section 7.5.3.1 SRS-7-170 Section 7.6.1 SRS-7-197	TN 1486 specifies a model where each filter is undertaken and isolated in a separate process, with a specific API and error codes defined. Would NATO consider an alternative filter model, still Common Criteria assured, but where the filters are not isolated in separate processes? We believe such an approach could meet the high-level security objectives of the guard (confirmed by Common Criteria assessments) but drastically reduce overall project costs. Would such an approach be considered compliant, as SRS-6-140 states the solution MUST conform to TN 1486.	Please see response to T2	AMD2
T31	Amd1	Technical	Book II Part IV SOW Annex A	Section 7.8.1 SES-7-424	'The MG SHALL be evaluated to CC EAL4(+).' Can you please confirm when in the project timeline such evaluation is required to be completed?	Please see response to T5 and T8	Closed
T32	Amd1	Technical	Book II Part IV SOW Annex A	Section 7.8.1 SRS-7-424	'The MG SHALL be evaluated to CC EAL4(+).' Would an approach where the process of gaining CC EAL4(+) is commenced after FAT, then once CC EAL4(+) is achieved any product modifications are made via a change management process be considered compliant?	Please see response to T4	Closed
T33	Amd1	Technical	Book II Part IV SOW Annex A	Section 6.8.1	The text states "The security requirements that apply to the WG are based on the Common Criteria (CC) Protection Profile (PP) for a Medium Assurance NATO XML-Labelling Guard", but there is no formal SRS Requirement ID associated with certification. Can you please confirm that formal certification of the Web Guard to Common Criteria, by a CLEF, is not required.	Formal certification of the Web Guard to Common Criteria is required – see [SRS-4-3], which requires evaluation to at least level 4.	Closed
T34	Amd1	Technical	Book II Part IV SOW Annex A	Section 6.8.2 SRS 6-734	The text states "The PKE module SHALL be validated according to the Smart Card Protection Profile [SCSUG-SCPP, 2001] or validated to at least FIPS 140-2 Level 2 [NIST FIPS 1402, 2001], or otherwise verified to an equivalent level of functionality and assurance by a NATO nation COMSEC authority." By "validated according to the Smart Card Protection Profile [SCSUG-SCPP, 2001]", does this mean formal Common Criteria approval?		Closed
T35	Amd1	Technical	Book II Part IV SOW Annex A	Section 6.8.2 Requirement ID: [SRS-6- 376]	The PKE module SHALL be evaluated according to the US Government Basic Robustness PKE PP with CPV - Basic Package, CPV - Basic Policy Package, CPV - Policy Mapping Package, CPV - Name Constraints Package, PKI Signature Verification Package, Online Certificate Status Protocol Client Package and Audit Package at EAL 4. By evaluated, does NATO mean formal Common Criteria certification?		Closed

T36	Amd1	Technical	Book II Part IV SOW Annex A	Section 7.8.2 Section 8.3.5	There appears to be a mismatch between the requirements in Section 7.8.2 and 8.3.5 for the Mail Guard. Can you please confirm which is correct? Category MG SFRs according to section 8.3.5 MG SFRS according to section 7.8.2 Infrastructure Platform 0.2 Trusted Base Platform 6.3 Policy Enforcement Module 4.5 Authentication 2.4 Correct Operation 5.0	All the requirements are applicable.	Closed
T37	Amd1	Technical	Book II Part IV SOW Annex A	Requirement ID: SRS-5-153	"The WG SHALL score above 80% in user success rate". What are the scoring criteria for the user success rate?	The requirement is not applicable and has been deleted.	AMD2
T38	Amd1	Technical	Book II Part IV SOW Annex A	Section 4.4.1 SRS-4-226	The requirement "It SHALL be possible to trigger the graceful shut down from the central and local management solution." is uncommon in our experience of accredited high assurance solutions, as it provides a potential single point of attack for a denial of service. Can you confirm the centralised management requirements have been approved by the NATO CIS Security Accreditation Board?		Closed
T39	Amd1	Technical	Book II Part IV SOW Annex A		There currently exist capabilities for IEG's within industry that take a different approach in both the security and the architecture to that proposed in this IFB. Building on existing capability is generally more appealing to industry than bespoke engineering because of the opportunities to exploit the same work with other customers. Would you consider an alternative approach based on COTS capability that achieves the same outcomes, but with a different architecture that we will still commit to getting accredited?		Closed
T40	Amd1	Technical	Book II Part IV SOW Annex A		modified COTS capability, or (iii) a bespoke solution?	See also T23. The Agency does not want to proliferate a bespoke design that is many years old, however this has come out of everyday practice. The Agency wants a solution that industrializes and enhances the current prototype potentially with a modified COTS capability. We invite bidders to point what specific requirements prevent the submission or acceptance of such a design to fulfil our high level requirements.	Closed
T41		Technical	Book I	3.4.6.7.5	required by the offer?	Normally the SISRS is NR, but the Purchaser will provide an unclassified version. SecOp according to AC/35-D/1014-REV3 Guidelines for the Structure and Content of Security Operating Procedures	Closed
T42		Technical	Book I Book II Part IV	3.4.6.7.8 8.3 (Table 15)	There is a contradiction, because Book I requires an "initial STVP" and Table 15 in Book II does not require the STVP during Bid preparation. Which guidelines should be followed?	SOW will be updated to describe the required content.	AMD2
Т43		Technical	Book I	3.4.6.7.8	If STVP is required, how should the document be prepared if its template will only be made available after signing the contract?	It should contain sample procedures related to SISRS	AMD2
T44		Technical	Book I	3.4.6.7.13		Yes	Closed
T45		Technical	Book I	3.4.6.7.14		Reference is NR. Request shall be made to your National Delegation.	Closed
T46		Technical	Book II Part IV Annex A	6.8.1.1		Yes	Closed
T47		Technical	Bidding sheets	CLIN 14.2 i 14.3	Please indicate the correct references to SOW in CLIN 14.2 and 14.3, because the currently entered are not related to the content of the CLIN point.	References updated	AMD2

18	Technical	Book II Part IV Annex A			These are PMIC requirements in the BiSC AIS NFR Baseline 3.1 (see AMD2 DOORS). Check with owner of Baseline 3.1 and/or PMIC. • ISO 9241-12 has been superseded by ISO 9241-125:2017 • ISO 9241-16 has been withdrawn. Propose to: • update SRS-5-27 to refer to ISO 9241-125:2017 • delete SRS-5-30
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T48

T49	Technical	Book II Part IV Annex A	8.3.1	The Protection Profiles already have newer versions (including CPP ND v.2.2e) - will the Purchaser update the requirements for PP?	The latest protection profiles should be used at the time of evaluation.	Closed
Т50	Technical	Book II Part IV	1.4.5	The sentence is unfinished - the lack of information about the requirements the system has to meet.	Paragraph deleted	AMD2
T51	Technical	Book II Part IV Annex A	4.1.2	The table lists the protocols required for the Web Guard: Link1, Link 11, Link 16, Link 22, OTH Gold, FFTS. How should Web Guard protect them if it only handles HTTP traffic?	, The IEG-FS (now known as the DISG) will transform the protocols into HTTP traffic with a XML payload.	Closed
Τ52	Technical	Book II Part IV	15.	6 One of the required documents is the NSV-2, Systems Communications Description scheme, but the NAG Information Requirements table lacks a description of the requirements for it (instead, there is a description for NSV-1 (deployment)). Could the Purchaser unify the requirements and provide the missing guidance?		Pending
Т53	Technical	Book II Part IV Annex A	5.2.1.1	In the table 6 the IEG Capacity Requirements per Data Type, the Full Motion Video STANAG 4609 protocol and the JREAP protocol are assigned to the Web Guard component, while in point 4.1.2 they are assigned to the Firewall component. How should JREAP traffic be controlled?	JREAP traffic will be controlled by the firewall and the Web Guard.	AMD2
T54	Technical	Book II Part IV	16.	3 Can the Purchaser provide a reference document TR/2017/NCB010400/12?	Classification NR, it needs to be provided by your National Delegation	Closed
T55	Technical	BOOK II – PART IV	1.	3 In BOOK II – PART IV, point 1.3 states, that IEG will be implemented in 7 locations, while Annex B.1 (List of sites) lists 6 locations. Which number is correct?	Six (6), IFB will be amended.	AMD2
T56	Technical	IEG-C Target Architecture	A.4.2	Does the Intrusion Detection Services can be a service included in the Palo Alto FW?	Potentially, but it will be determined at the time of the Site Surveys.	Closed
757	Technical	Book II	SOW Amendment 1, Annex C Purchaser Furnished Equipment (PFE) and services	 In section C.1. the SOW says "The customer has provided in Appendix D "Purchaser Furnished Equipment Detailed Specifications" of the SRS, equipment lists that the contractor shall use as a starting point to choose hardware for the IEG-C system ". Question: Do you want the Contractor to re-use the hardware listed in Appendix D explicitly for the new IEG-C implementations? What do you propose if some elements of Appendix D do not fit into the system architecture foreseen by the bidder in his proposal to this RfP? 	In Amendment 1 the phrase has been deleted. Bidders will choose hardware according to SRS.	Closed
T58	Technical	Book II	Part IV SOW Annex A SRS Page 21 - Table 4 - Protocols Supported by the IEG-C	Listed protocols such as RTP and RTCP are realtime communication protocols used for audio and video communications. Virtual Air Gap technologies do not enable TCP/IP level routing between High and Low domain networks. Please clarify whether these protocols are required for cross domain communications.	These protocols are required for cross domain communications.	Closed
Т59	Technical	BOOK II - PART IV SOW Annex A SYSTEM REQUIREMENTS SPECIFICATION (SRS)	5.2.3.2	Is expected an integrated management layer (covering all the building blocks), as part of an individual IEG-C, to provide a seamless operation interface to the system?	A management layer is expected, that will integrate existing NATO management tools (e.g. firewalls) and solution specific management tools.	Closed
Т60	Technical	BOOK II - PART IV SOW Annex A SYSTEM REQUIREMENTS SPECIFICATION (SRS)	5.2.3.2	Individual management systems (e.g. one for firewalls, another one for switching, another one for Web Guard, and so on) would be well appreciated?	see T59	Closed
T61 T62		BOOK II - PART IV SOW Annex A SY BOOK II - PART IV SOW Annex A SY		A unique backup software covering all the IEG-C building blocks should be integrated? 2 IEG-C local management is just optional or, a local management Workstation should be deployed	See requirements SRS-5-49, SRS-5-50, SRS-5-237, SRS-5-334. A local management workstation is optional and will be used in	Closed Closed
102				in addition to the local IEG-C management interface?	specific IEG-C deployments.	cioseu
т63	Technical	BOOK II - PART IV SOW Annex A SY	'S Annex D	Is very accurate regarding many IEG-C components, enumerating a specific set of vendors and part numbers. Should we feel free to include any HW/SW item in our solution's design, when implementing non-listed (in this document) building blocks (e.g. Web Guard)?	Yes	Closed
T64	Technical	BOOK II - PART IV SOW Annex A	2.	1 Please note that Figure 2 - IEG-C "Management and Components" shows the IEG-C node as "Highly Available". Please confirm if the full redundancy of each IEG-C node is required or if the only availability requirements are those included under section 5.2.4.1 of BOOK II - PART IV SOW Annex A	The availability requirements are defined in 5.2.4.1 in the SRS.	Closed

T65	Technical	BOOK II - PART IV SOW Annex A	4.9.4	Please confirm that the Rack shall be delivered already pre-wired and all internal connections and wiring shall be done at contractor premises	No PFE any more, bidders can choose and bui;d equipment according to SRS requirements	Closed
T66	Technical	BOOK II - PART IV SOW Annex A	4.2.1	Please confirm that the firewall model specified under paragraph 4.2.1 (and described under Appendix D) shall be mandatory or can be proposed an equivalent model from different vendors	The FW brand is mandatory.	Closed
Т67	Technical	BOOK II - PART IV SOW Annex A	4.3.1	Please confirm that the Network Switch models specified under paragraph 4.3.1 (and described under Appendix D) shall be mandatory or can be proposed equivalent models from different vendors	The switch is mandatory	Closed
Т68	Technical	BOOK II - PART IV SOW Annex A	Appendix D	Please confirm that the materials specified shall be proposed with the same configuration shown under appendix D	The brand and model are mandatory, but configuration can vary as long as it meets the system requirements	Closed
Т69	Technical	BOOK II - PART IV SOW Annex A	D.2.3	Please clarify if the S3124F switch shall be provided with the same configuration shown in the table (i.e. Q.ty 2 if 210-AIMS shall be provided for each single switch required by the IEG-C requirements).	Configuration can vary as long as it meets the system requirements	Closed
Т70	Technical	BOOK II - PART IV SOW Annex A	4.1.4 - SRS-4-34/SRS-4-34	Please clarify if it is required a single management common interface for each IEG-C node or each component can be managed independently by the NATO Enterprise Service Management and Control (SMC) capability	A single management interface is required to meet [SRS-3-25], however some management operations (e.g. firewall configuration) may be performed from existing centralized management systems, as per [SRS-3-22] when they are available	Closed
T71	Technical	BOOK II - PART IV SOW Annex A	5.2.4.6 - SRS-5-327	Please confirm if a removable local backup device shall be included in each IEG-C node	NCIA confirms	Closed
Т72	Technical	BOOK II - PART IV SOW Annex A	4.9.1	Please confirm that the all the server that shall be provided for the implementation of IEG-C functionalities shall be DELL EMC or HPE.	NCIA confirms	Closed
Т73	Technical	Book II Prospective Contract Part IV with Annex IFB-CO-14314-IEG-C		The requirement [SRS8-42] applies to IEG-C, Firewall and IDS but it has no description.	The description is "The Infrastructure Platform firmware and software SHALL be updated by an administrator on a regular basis in response to the release of product updates due to known vulnerabilities."	AMD2
T74	Technical			The description of IEG-C, Firewall, network switch, RDP proxy, web proxy, web guard, mail guard, and IDS it has a description but no SRS number	Missing requirement ID. ID will be assigned as: [SRS-8-50]	AMD2
T75	Technical	Book II Prospective Contract Part IV with Annex IFB-CO-14314-IEG-C		Can NATO confirm that the maximum throughput referred to in SRS -5-302 is the highest figure quoted within the frequency column.	Requirement deleted	AMD2
T76	Technical	Book II Prospective Contract Part IV with Annex IFB-CO-14314-IEG-C		Can NATO further clarify SRS - 5-302.Is it a statement describing the services throughput or requesting what the IEG-C design needs to accommodate as the minimum throughput?	Requirement deleted	AMD2
Т77	Technical	Book II Prospective Contract Part IV with Annex IFB-CO-14314-IEG-C		Within the BOOK II - PART IV SOW Annex A: SYSTEM REQUIREMENTS SPECIFICATION (SRS) - Table of Contents - List of tables: There are entries for both IEG-C TSF sub-components for static and deployed. The table for static is within the document but there is no equivalent table for deployed - Can this table be provided?	description amended	AMD2
Т78	Technical	Book II Prospective Contract Part IV with Annex IFB-CO-14314-IEG-C		• There are duplications for requirements SRS-8-2, and SRS 8-3. Can NATO provide corrected requirement numbers.	SRS requirements have been changed to SRS-8-51 and SRS-8-53	AMD2
Т79	Technical	Book II Prospective Contract Part IV with Annex IFB-CO-14314-IEG-C		Within the BCRM Spreadsheet, Requirements SRS-8-1 through to SRS-8-49 do not include the extra information that is presented within the tables within Annex A SRS pdf. Can NATO provide an update to the BCRM to include the missing information?	BRCM will be updated	AMD2
Τ80	Technical	Book II Prospective Contract Part IV with Annex IFB-CO-14314-IEG-C		Within the BOOK II - PART IV SOW Annex A: SYSTEM REQUIREMENTS SPECIFICATION (SRS) - SRS-6 380 references SRS-6-371. A reading of those two requirements does not appear to be correct in context. Can NATO clarify the reference to SRS-6-371?	- Correct reference in SRS-6-380 is SRS-6-377	AMD2
T81	Technical	Book II Prospective Contract Part IV with Annex IFB-CO-14314-IEG-C		Within the BOOK II - PART IV SOW Annex A: SYSTEM REQUIREMENTS SPECIFICATION (SRS) - there are items depicted in Figure 3 - IEG-C Data Flows, and Table 6: IEG Capacity Requirements per Data Type, that are not referenced elsewhere in the document. Can NATO clarify which interfaces and protocols are required?		Closed
T82	Technical	Book II Prospective Contract Part IV with Annex IFB-CO-14314-IEG-C		SRS-5-49 requirement states minimal data loss. What is the value for minimal data loss (RPO)?	Requirement deleted	AMD2
T83	Technical	Book II Prospective Contract Part IV with Annex IFB-CO-14314-IEG-C		Within the BOOK II - PART IV SOW Annex A: SYSTEM REQUIREMENTS SPECIFICATION (SRS) - SRS-6 297 references interface with BMC ITSM Atrium CMDB. What sort of interface or level of interaction is expected?	Details to be found at the time of surveys	Closed
T84	Technical	Book II Prospective Contract Part IV with Annex IFB-CO-14314-IEG-C		SRS-5-47 requires that any individual fault be corrected within 60 minutes. To what level does this apply? Additionally, for hardware this may mean that a critical spares pack may be needed to ensure that this can be met.	Both hardware and software.	Closed

No. Include Market Construction Not-Add magazement from file figure Induces construction for gene in an operation section and							
IMAGE IMAGENIE Main Management Contracts Main Solution Main Solu	Т85	Technical			facilities such as HVAC covered by this exclusion as an extended failure of the cooling or a failure in a hot environment will be detrimental to the life of the equipment. Does this requirement mean in the event of a external failure the MBTF target does not apply or does oit mean the IEG-C should meet its MBTF target regardless of external factors. The requirement can be read either	In the event of an external factor, the failure of the IEG-C will not be considered in the MTBF calculation.	
Number Net	T86	Technical				There is no particular relationship.	Closed
Using the model by the constraint of the CD BLARS and CL - back i amount of the	T87	Technical			are outside operating limits. Is there an alternative solution here other than a graceful shutdown.	The IEG-C does not store data.	Closed
Instrument of low source programment will be prevended by the preven	T88	Amd1 Technical	—	[SOW-124]	looking at the revised "IFP-CO 14314-IEG-C - Book I Annex D BCRM - Amd1" we compared it to the original "IFB-CO 14314-IEG-C - Book I Annex D BCRM" and found no changes. Can we expect a PDF correction which restore the original SOW sequence number or an XLSX		AMD2
Part Name Reputation in the Name A Signature in the Name A Sig	T89	Technical	Book I - Part II Technical Proposal	3.4.1 & 3.4.6.3.4	explanation of how each requirement will be met" does not seem relevant to every SRS		Closed
The Addition General Question Can mandated hardware be examption any performance and Tempest requirements or can select WF mon approved Tempest certified providers. Schemal Question Schemal Quest	Т90	Technical	General Question		What connectivity to IEG-C is possible for remote support and configuration?		Closed
193 Technical General Question is there a DODS module for the SDW and SRS that can be shared with the bidders as well at the More approved Temperator entitied provider. Word version can be provided, but PDF Will be the normative and PDF files? Ood and PDF files? 194 Technical General Question Would the authority consider attenative implementations to those defined in the SSS and the inDOMS, certain ty Hauty Into AMO2 194 Technical General Question Would the authority consider attenative implementation in SS requirements have been adapted in AMD2. NCIA will not AMO2 195 Technical General Question Would the authority consider attenative implementation in SS requirements have been adapted in AMD2. NCIA will not AMO2 196 General Question Would the authority consider attenative implementation in SS requirements have been adapted in AMD2. NCIA will not AMO2 197 General Question Would the authority please release the weighting criteria for the SIS in order for the sist significantly increase the provider. All IGC-C gateways need to support the same set of throught and y be gindratic three in the customer in order to atticity less important (to the customer) functionality. All IGC-C gateways need to support the same set of provide in marky efforts All IGC-C gateways need to support the same set of provider. All IGC-C gateways need to support the same set of provider. All IGC-C gateways need to support the same set of provider. All IGC-C gateways need to support the sam							Closed
PDF files? authorizative version. Only SBS can be in DODDS, certainly that will be done with the winning bidder after contract award T94 Technical General Question Would the authority consider alternative implementations to those defined in the SPS consider alternative implementation if SSS manddory requirements. SSP requirements have been adopted in AMO2. VCA will not a the interplementation if SSS manddory requirements. SSP requirements have been adopted in AMO2. VCA will not a the interplementation if SSS manddory requirements. SSP requirements have been adopted in AMO2. VCA will not a the interplementation if SSS manddory requirements. SSP requirements have been adopted in AMO2. VCA will not a the interplementation if SSS manddory requirements. SSP requirements have been adopted in AMO2. VCA will not a the interplementation if SSS manddory requirements. SSP requirements have been adopted in AMO2. VCA will not a the interplementation if SSS manddory requirements. SSP requirements have been adopted in AMO2. VCA will not a the interplement and interplementation information with the statistic interplementation information with the statistic interplementation information with the ustomer requirement tert has splinface the statustion per distation information with the statistic interplementation information with the statistic interplementation information with the statistic interplementation information with the plan. These ado indicate the statustion per distation tertain per section information with the plan. These ado indicate the statustion per distation in production (PROD) or represents a future / nice to have plan. These ado indicate the statustion in the statistic interplementation in production (PROD) in personsing a future / nice to have plan. These ado indinate the statistic i	T92	Technical	General Question				Closed
Image: Instrume in the instrume ins	T93	Technical	General Question			authoritative vesrion. Only SRS can be in DOORS, certainly that will	Closed
Index	T94	Technical	General Question			consider alternative implementation if SRS mandatory requirements	
Table 6, p. 49production (PROD) or represents a future / nice to have plan. Please also indicate the situation per data flows.197TechnicalIIPart IV Annex A SRS Table 4, p20 ffPlease use tab Protocols to provide information whether protocol requirement derives from need in production (PROD) or represents a future / nice to have plan. Please also indicate the situation per site: needed upon first install, not needed, future plan. This is key to determine man-day efforts197TechnicalIISOWCan an alternative solution IEG-C / cross domain solution architecture be proposed if it fully or information architecture plan. This is key to determine man-day efforts198TechnicalIISOWCan an alternative solution IEG-C / cross domain solution architecture be proposed if it fully or information assurance / NATO SECRET approval / accreditation requirements?199TechnicalIISOWIs it correct to assume that the core NCIA objective is to reduce complexity of core NATO cross in the past rather than using existing cross domain solutions?1100TechnicalIISOWObse NCIA intend to develop and maintain if's own unique IEG-C hardware/software solutions as in the past rather than using existing cross domain solutions?1101TechnicalIISOWObse NCIA intend to develop and maintain if's own unique IEG-C hardware/software solutions as in the past rather than using existing cross domain solutions?1102TechnicalIISOWObse NCIA intend to develop and maintain if's own unique IEG-C hardware/software solutions as in the past rather than using existing cross domain soluti	T95	Technical	General Question		bidder in order to allow for a best value/most affordable offer to be submitted. For example there may be signicant cost drivers in the customer requirement set that significantly increase the price		Closed
p20 ff in production (PROD) or represents a future / nice to have plan. Please also indicate the situation per site: needed upon first install, not needed, future plan. This is key to determine man-day efforts T38 Technical II SOW Can an alternative solution IEG-C / cross domain solution architecture be proposed if it fully or party meets the A. data (structured/unstructured) filtering B. protocol, C. performance and D. information assurance / NATO SECRET approval / accreditation requirements? see T94. Closed T99 Technical II SOW Is it correct to assume that the core NCIA objective is to reduce complexity of core NATO cross domain solutions in terms of rack space, management, maintaining security accreditation and taking advantage of industry COTS solutions? Yes Closed T100 Technical II SOW Does NCIA intend to develop and maintain it's own unique IEG-C hardware/software solutions as No Closed T101 Technical II SOW Obes NCIA intend to develop and maintain it's own unique IEG-C hardware/software solutions as No No teonly provision was for remote meetings Closed T102 Technical II SOW Obes NCIA intend to develop and maintain it's own unique IEG-C hardware/software solutions as No No teonly provision was for remote meetings Closed T102 Technical II Part IV	Т96	Technical	II		production (PROD) or represents a future / nice to have plan. Please also indicate the situation per		Closed
Technical II SOW Is it correct to assume that the core NCIA objective is to reduce complexity of core NATO cross domain solutions in terms of rack space, management, maintaining security accreditation and taking advantage of industry COTS solutions? Yes Closed T100 Technical II SOW Does NCIA intend to develop and maintain it's own unique IEG-C hardware/software solutions as for remote meetings No Closed T101 Technical II SOW Does NCIA intend to develop and maintain it's own unique IEG-C hardware/software solutions as in the past rather than using existing cross domain solutions? No Closed T101 Technical II SOW Does figure indicate the NCIA expects IEG-C to consist of 6 physically separate components / No the only provision was for remote meetings Closed T102 Technical II Part IV Annex A SRS, Figure Does figure indicate the NCIA expects IEG-C to consist of 6 physically separate components / No No Closed	T97	Technical	II		in production (PROD) or represents a future / nice to have plan. Please also indicate the situation per site: needed upon first install, not needed, future plan. This is key to determine man-day	All IEG-C gateways need to support the same set of protocols	Closed
Image: Solution in terms of rack space, management, maintaining security accreditation and taking advantage of industry COTS solutions? Solutions? T100 Technical II Solutions? Does NCIA intend to develop and maintain it's own unique IEG-Chardware/software solutions as in the past rather than using existing cross domain solutions? No Closed T101 Technical II Solutions At the time of release, where COVID-19 travel restrictions and time delays considered for the overall project deadlines and timeline? No, the only provision was for remote meetings Closed T102 Technical II Part IV Annex A SRS, Figure Does figure indicate the NCIA expects IEG-C to consist of 6 physically separate components / No No Closed	T98	Technical	II	SOW	partly meets the A. data (structured/unstructured) filtering B. protocol, C. performance and D.	see T94.	Closed
Title Solution Does NCIA intend to develop and maintain it's own unique IEG-C hardware/software solutions as in the past rather than using existing cross domain solutions? No Closed Title Technical I Solution At the time of release, where COVID-19 travel restrictions and time flease? No the only provision was for remote meetings Closed Title Technical I Part IV Annex A SRS, Figure Does figure indicate the NCIA expects IEG-C to consist of 6 physically separate components / No No Closed	T99	Technical	II	SOW	domain solutions in terms of rack space, management, maintaining security accreditation and	Yes	Closed
T101 Technical II SOW At the time of release, where COVID-19 travel restrictions and time delays considered for the overall project deadlines and timeline? No, the only provision was for remote meetings Closed T102 Technical II Part IV Annex A SRS, Figure Does figure indicate the NCIA expects IEG-C to consist of 6 physically separate components / No No Closed	Т100	Technical	Ш	SOW	Does NCIA intend to develop and maintain it's own unique IEG-C hardware/software solutions as	No	Closed
	T101	Technical	Ш	SOW	At the time of release, where COVID-19 travel restrictions and time delays considered for the	No, the only provision was for remote meetings	Closed
	T102	Technical	II			No	Closed

T103	Technical II	Part IV Annex A SRS, Figure	Does figure indicate high-level architecture that is considered to meet NATO SECRET information assurance requirements?	No, it is a general layout connectivity	Closed
T104	Technical II	Part I, CLIN 1.0 ff.	Accreditation timelines (1.2-1.5) and 1.9 indicate a very short timeframe (6-13 months) for any vendor that is forced to do custom development on a new or extistin cross domain solution to meet NICA requirements and produce the necessary evaluation / accreditation documents. Please elaborate how NCIA considered these timelines to be realistic, especially given that several requirements raise risk / concern that an SAA might intervene?	Certain accreditation activities can occure in parallel, while interim authorizations can be provided to continue with project design and execution.	
T105	Technical II	Part IV SOW Annex A SRS, p. 309 / p. 284 A. 1.5	Please provide details how NATO STANAG 4774/8 security labels are created on HIGH to classify data objects. A. If any, which COTS product / software is used to create the NATO STANG 4774/8 compliant security label? B. If any, which applicaions on HIGH have data classification / labeling function integrated?	This is not in the IEG-C scope	Closed
T106	Technical II		Is NCIA aware that REMOTE configuration and management of IEG-C Cross Domain Solution is not allowed by NATO SECAN and other national security agencies because of security concerns? Usually only remote monitoring on HIGH is allowed but never management or configuration.	Please see response for T.38 All IEG-Cs will be in environments fully controlled by NATO NCS (NATO Command Structure) or NFS (NATO Force Structure).	Closed
T107	Technical II	Part IV Annex A, Part IV SOW Annex A, page 295 ff 'Appendix C:	IEG-Protection Profile provides the Security Problem Definition (Threats, OSP, Assumptions) and the Security Objectives for the TOE and the OE. Is the Security Objetive Rationale available?	The Security Objective Rationale is not available.	Closed
T108	Technical II	Part IV Sow Anex A SRS, p. 305	Regular Updates - IEG firmware and software is updated by an administrator on a regular basis. Is NCIA aware that any update package for a NATO SECRET approved Cross Domain Solution needs prior evaluation and approval by NATO SECAN / national security authority? Has the SAA approed this process?	configuration control. Minor change -> SAA is informed, significatn	Closed
T109	Technical II	Part IV SOW Annex A, Page 13	In which way are the Public Key Cryptographic Services dependent on centralized PKI services? Which cryptographic algorithms need to be supported?	Please see SRS-8-3 in Annex A, SRS of Part IV, SoW.	Closed
T110	Technical II	Part IV SOW Annex A, Page 18 ff.	Non authenticated remote access (for remote shutdown and restart procedures or to receive status or audit information) to server systems, which provide security functionality, needs to be discussed with the responsible SAA. Is this requirement approved or known to the responsible SAA?	This type of access are always authenticated (device certificates or other means). Logs can be send to defined and authenticated device – if it's impossible, then they are stored locally for some time. Precise process and action will be defined after EDC.	
T111	Technical II	Part IV SOW Annex A, Page 20	Are High Domain Network Switch and Low Domain Network Switch directly connected to each other as it is shown in Figure 8? For which protocols from Table 4 is this bypass used?	Yes. Those protocols with a IEG-C Component indicated as "Firewall" in Table 4	Closed
T112	Technical II	Part IV SOW Annex A, Page 20	Is the Management Domain Network Switch directly connected to all components including the Low Domain Network Switch and Low Domain Firewall?	Yes	Closed
T113	Technical II	Part IV SOW Annex A, Page 20	Is the network design shown in Figure 8 approved or known to the responsible SAA?	No	Closed
T114	Technical II	Part IV SOW Annex A, Page 20	Which of the protocols from Table 4 are to be transferred between the High Domain and the Low Domain? For which of those protocols is the flow of information (excluding protocol headers or acknowledgements): a) High to Low, b) Low to High, c) Bidirectional	All protocols may be bi-directional. The policy applied to the IEG-C may restrict the flows between the different domains.	Closed
T115	Technical II	Part IV SOW Annex A, Page 20	Which of the protocols from Table 4 are limited to the Management Domain?	Those procotols listed as a "SMC" (Service Management and Control) in the "Service" column.	Closed
T116	Technical II	Part IV SOW Annex A, Page 13	In which way are the Public Key Cryptographic Services dependent on centralized PKI services? Which cryptographic algorithms need to be supported?	Publication of CRLs and/or validation of certificates. See SRS-8-3	Closed
T117	Technical II	Part IV SOW Annex A, Page 22	Which components are using the Differentiated Services Field? Shall this header filed also be preserved in a Low to High data transfer regardless of the sending system?	Components external to the IEG-C may use the Differentiated Services Field. Yes, as per requirement SRS-4-224	Closed
T118	Technical II	Part IV SOW Annex A, Page 27	If Global Adress List and Identity and Access Management is forwarded in both directions via the firewall component as shown in figure 9, which data flow controls are enforced by this firewall component? Refering to figure 8 (page 20), which of the guard and proxy components are involved?	The firewall component shall enforce flow controls as determined by the policy applied to the firewall. This may include source and destination IP and content inspection. As per Table 4, neither a guard or proxy component is involved.	Closed
T119	Technical II	Part IV SOW Annex A, Page 27	If Domain Name Services are connected to each other via the firewall component as shown in Figure 9, which data flow controls are enforced by this firewall component? Refering to Figure 8 (page 20), which of the guard and proxy components are involved?	See T118	Closed

T120	Technical II	Part IV SOW Annex A, Page 27	If Full Motion Video is forwarded in both directions via the firewall component as shown in Figure 9, which data flow controls are enforced by this firewall component? Refering to Figure 8 (page	See T118	Closed
			20), which of the guard and proxy components are involved?		
T121	Technical II	Part IV SOW Annex A, Page 27	If Operational Planning Information, C2 Information and Reporting Information is forwarded in both directions via the firewall component as shown in Figure 9, which data flow controls are enforced by this firewall component? Refering to Figure 8 (page 20), which of the guard and proxy components are involved? If the Mail Guard is involved, which subset of the information is processed by the Mail Guard?	The firewall component shall enforce flow controls as determined by the policy applied to the firewall. This may include source and destination IP and content inspection. As per Table 4, a Mail Guard is used to process information that is exchanged using SMTP.	Closed
T122	Technical II	Part IV SOW Annex A, Page 27	If Geographic Information Services (Core GIS) are connected to each other via the firewall component as shown in Figure 9, which data flow controls are enforced by this firewall component? Refering to Figure 8 (page 20), which of the guard and proxy components are involved?	The firewall component shall enforce flow controls as determined by the policy applied to the firewall. This may include source and destination IP and content inspection. As per Table 4, the Web Guard or Web Proxy may be involved, depending on how the information is exchanged.	Closed
T123	Technical II	Part IV SOW Annex A, Page 27	If subsets of SMC services are connected to each other via the firewall component as shown in figure 9, which data flow controls are enforced by this firewall component? Refering to figure 8 (page20), which of the guard and proxy componentns are involved?	The firewall component shall enforce flow controls as determined by the policy applied to the firewall. This may include source and destination IP and content inspection. As per Table 4, the Web Proxy or RDP Gateway may be involved, depending on how the information is exchanged.	Closed
T124	Technical II	Part IV SOW Annex A, Page 28	Which document defines the requirements to "interface and function correctly with the NATO General Purpose Segment Communications System (NGCS) network, the NATO Communications Infrastructure (NCI) network and security infrastructure"?	Requirement deleted	AMD2
T125	Technical II	Part IV SOW Annex A, Page 28	Which document defines the requirements to "interface and function correctly with the NATO Computer Incident Response Capability (NCIRC)"?	Cyber Monitoring Guidance [NCI Agency TR/2017/NCB010400/12, 2017 (NR)]	Closed
T126	Technical II	Part IV SOW Annex A, Page 28	For Requirement IDs SRS-4-34 to SRS-4-48: Which documents define the requirements to "interface and function correctly with" the services and capabilities from those requirement Ids.	A simple confirmation statement for the bidding phase will suffice. Documents will be provided at EDC.	Closed
T127	Technical II	Part IV SOW Annex A, Page 38	Is Microsoft Windows Server 2016 approved or known to the responsible SAA as a trusted platform for cross domain security services?	NCIA confirms	Closed
T128	Technical II	Part IV SOW Annex A, Page 49	What is the meaning of RS in File Transfer (RS) mentioned in Table 6?	RS is "Release Server" - a specific component for which the file transfer capacity requirements are known. The Release Server uses XML over HTTP and so is mediated by the Web Guard.	Closed
T129	Technical II	Part IV SOW Annex A, Page 49	What is the differnece in File Transfer (RS) and File Transfer (other) in Table 6? Why are the assigned Mediators different?	RS is "Release Server" - a specific component for which the file transfer capacity requirements are known. The Release Server uses XML over HTTP and so is mediated by the Web Guard. Other file transfer components may mediated by the Web Proxy, or possibly just by the firewall. The IEG-C shall allow all options.	
T130	Technical II	Part IV SOW Annex A, Page 49	What is the meaning of IntelFS in Table 6?	Intel Functional Services Add to acronymns in SOW.	AMD2
T131	Technical II	Part IV SOW Annex A, Page 50	What is the meaning of BMD Tracks in Table 6?	Ballistic Missile Defence Tracks Add to acronyms in SOW	AMD2
T132	Technical II	Part IV SOW Annex A, Page 49	Does Formal Messaging reference to STANAG 4406 and X.400? Why is SMTP mentioned as protocol? Are X.400 to SMTP gateways provided?	No. There is no reference to STANAG 4406 and X.400. X.400 protocols are not required to be supported by the IEG-C.	Closed
T133	Technical II	Part IV SOW Annex A, page 158 ff.	The given security requirements apply to the WebGuard(WG)' Which security requirements apply to the RDP Proxy and Web Proxy component? If there are none, is this known and approved by the responsible SAA?	The IEG-C and its supporting components, shall comply with SRS-5- 13 - SRS-5-17	Closed

T134	Technical II	Part IV SOW Annex A, page 158 ff.	The given security requirements apply to the WebGuard(WG)' Which security requirements apply to the Firewalls and Network Switches, which (see Figure 8, page 20) physically connect the High, Management and Low Domain to each other? If there are none, is this known and approved by the responsible SAA?		Pending
T135	Technical I	Bidding Instructions	Is the Security Classification level of all bid documents up-to "unclassified"? (including Security Accreditation documents: initial SRA, initial Generic SISRS, etc.)	NCIA confirms that the Security Classification for this IFB is NATO Unclassified along with corresponding documentation. The classification for Security Accreditation documents, SRS, etc. upon award will be dependent on the content	Closed
T136	Technical I	Section 3.4.6.7 Security Accreditation	Because no template are provided for Security Accreditation documents, can the bidder user its own template/document structure and tools (e.g. SRA tool)?	Yes, but content must be compliant with guidance (AC/35-D/1017-REV3)	Closed
T137	Technical II		SRS-6-377 requires a "trusted" operating system. How can trustability be proven? If the WG is Common Criteria certified with its own OS (e.g. as an appliance), is the requirement satisfied?		Pending
T138	Technical I	statement confirming that only evaluated boundary	Is the compliance with the statement reached with Common Criteria certification of the BPD? Can the BPD be evaluated against an Approved Protection Profile (e.g. collaborative Protection Profile Module for Stateful Traffic Filter Firewalls v1.3) instead of Evaluation Assurance Level (EAL) ? Instead of CC certification, is it possible to select BPD running firmware/OS/SW listed in AFPL?		Closed
T139	Technical I	Part IV - [SRS-8-2] Utilisation of modern IA techniques and compliancy with the cyber-defence services SHALL be followed.	How can the utilization of modern IA techniques be tested? Regarding cyber-defence services, is it referred to section 7.7.6 Cyber Defence of Annex A SRS?	A simple confirmation statement for the bidding phase will suffice	Closed
T140	Technical II	Part IV SRS-7-424] The MG SHALL be evaluated to EAL4(+) based on the Protection Profile defined in Section 8.	Is the Common Criteria evaluation part of the contract? Who is in charge of Common Criteria evaluation? Contractor or purchaser? Who defines the security target?	Please see response to T4. Contractor expected to set target and finally responsible, NCIA sponsor	Closed

T141	Technical II	Part IV - [SRS-6-380] The WG hardware and firmware MUST be selected such that requirement [SRS-6-371] is met. [SRS-6-371] The operation 'Track Messages' SHALL support SMC Messages of the type SNMP v3 [IETF RFC 3412, 2002].		See T80 Correct reference in SRS-6-380 is SRS-6-377	AMD2
T142	Technical II	Part IV SOW ANNEX A SRS, Appendix D, D.1.1	Can bidder suggtest alternative firewall listed in NIAPC?	NCIA will not accept this.	Closed
T143	Technical II	Part IV SOW ANNEX A SRS, Appendix D, D.1.1	Why was PAN-PA-3260 Firewall selected?	To match established baseline.	Closed
T144	Technical II	7.5 Site installation and implementation	Could you please anticipate that all sites have proper black and red energy supply (i.e. provision and installation of energy tempest filters are out of the scope of this bid)?	Determination of black and red energy supply will be made during the Site Survey.	Closed
T145	Technical II	Part IV, pag. IV and pag. 170	Book II, part IV, pag 170. WP4 (Decommissioning) will be concluded by FSA (as per B.2.4.1 and B.2.4.4) Book II, part IV, pag IV, Table 2: Project Milestones: Decommissioning "up to 4 months after FSA" Please, clarify when decommissioning could be concluded	WP4 can be concluded up to 4 months after FSA.	AMD2
T146	Technical II	32, pag. 42	Clause 32 NATO Codification. Will it be treated as direct codification by initiating the procedures directly by the contractor through the national NCB or will the contrator only have to give the information to NCI so that they can initiate the cataloguing transactions?	The Contractor shall initiate and follow the procedures with the associated National NATO Codification Bureau.	Closed
T147	Technical II	6.2.1. Book 2, Part IV, Page IV-63	SOW-274 when refers to Planning of supply support Codification, it means NATO Codification?	Correct, it refers to NATO Codification.	Closed
T148	Technical II	6.7.2. Book 2, Part IV, Page IV-81	SOW-459. Please clarify: On the basis that an adequate manufacturer's identification numbering system is in place, NATO codification (the request and assignment of NATO Stock Codes – NSN) are not be required. Does this mean that in the case of contractor own articles (because contractor has its own manufacturer's identification numbering system) they do not have to be coded by NATO?	The items and the identification approach will be reviewed by the Purchaser, and in case it is deemed sufficient as per the codification standards, further codification will not be required. This will be subject to Purchaser approval.	Closed
T149	Technical II	6.1.1 Book 2, Part IV, Page IV-63	SOW -269 calls for LSA standards [MIL-STD-1388-1A], [MIL-STD-1388-2B] and [ASD S3000L] as guidance when establishing and conducting the Logistic Support Analysis (LSA) programme. Anyhow, it is not stated or defined the applicable standard to be used for LSA analysis and documentation: [MIL-STD-1388-2B] or [ASD S3000L]? In any case, once final standard defined for LSA analysis, corresponding DED definitions to be used for the analysis should be provided, in accordance with paragraph 6.4.2 (Logistic Support Analysis LSA)	o 1	Closed
T150	Technical Book II Part IV Annex A	Part IV, SoW Annex A SRS (General)	There appears to be confusion in the IFB regarding whether NCIA requests a solution enhancing the existing IEG-C prototype or a COTS capability that has a similar architecture. Could you please clarify whether NCIA wants (i) a solution enhancing and productising the existing prototype, (ii) a modified COTS capability, or (iii) a bespoke solution and which of them will be valued as compliant? A huge cost and schedule risk is identified in the development of a bespoke solution	Please see responses to T23, T40 NCIA does not believe this statement is accurate. Prospective Bidders may submit Clarification Requests if needing further information in order to comprehend the requirement completely	Closed
T151	Technical Book II Part IV Annex A	Part IV, SoW Annex A SRS (General)	Given the need for development (not least to implement support for the new NCIA labelling standard) will NCIA agree to allow organisations more time to put their products through a re- evaluation after FAT has completed?	Contractor will commence development just after EDC and continue the project execution with interim authorization. Final product can be incorporated in the integrated solution before going live at the PSA milestone (1st operational gateway).	Closed

T152	Technical Book II Part IV Annex A	6.7.6.1.1 9.4.1	There are lot of system requirements that would suggest a SIEM is required? Will NCIA provide this and if so what will it be?	The SIEM-capability and associated log-aggregation capability are part of the NCIA monitoring capability. Integration of the IEG-C with the SIEM is part of the Contractor's effort to integrate with the NCI monitoring capability.	n
T153	Technical Book II Part IV Annex A	6.5.3.1 WG_CIPE	TN 1486 specifies a model where each filter is undertaken and isolated in a separate process, with a specific API and error codes defined. A Common Criteria compliance filter but with filters not isolated (separated processes) will be valued as compliant?, as SRS-6-140 states the solution MUST conform to TN 1486.	Please see response to T2	AMD2
T162	Technical	SRS General	The requirements for guards are all written based on the architecture written in IEG-C Target Architecture [NCIA TR/2016/NSE010871/01, 2017] and the CIPE Functional Specification (we don't have a copy of this but it is referenced from the target architecture and the SRS). The Target Architecture defines a set of building blocks (ABBs) which interact using a set of defined patterns. For example for Business Support Services Email, there is a pattern describing how Email should flow and be controlled. Among other things, the pattern describes a High to Low Business Support Services Information Flow Policy (IFP) and a High to Low Content Inspection Policy (CIP). In the SOW, it indicates that the target architecture is not a binding document: SOW-230: The Contractor SHALL review the Purchaser-provided provided IEG-C Target Architecture [NCIA TR/2016/NSE010871/01, 2017]. SOW-231: The Contractor SHALL consider this Target Architecture as a document for information which should be helpful to conduct its design activities. Therefore, the Contractor SHALL NOT consider the Target Architecture as a binding document. SOW-232: The Contractor SHALL conduct the necessary Design Activities and develop its own complete design of the IEG-C at the Preliminary and Critical levels, including all interfaces to other systems to meet the SRS. But then the same architecture is written all over the requirements. Example requirements from the SRS about Business Services Email: SRS-4-140: The IEG-C Mail Guard component SHALL enable the capability to configure the MG_IFP_BS_HL IFP to enforce the MG_CIP_BS_HL CIP. SRS-7-142: The policy MG_IFP_BS_HL SHALL specify: • That a release of information to the low domain is not permitted if O_MG_CIPE_HL ([SRS-7-178]) constitutes a policy violation; • The action the MG shall take in case of a policy violation, see [SRS-7-144] SRS-7-178: MG_CIPE SHALL inform MG_IFCPE of the outcome O_MG_CIPE_HL of the enforcement of IEG-C_CIP_BS_EMAL_HL based on MG_CIP.		Pending
T163	Technical		"See T.1 above, the SOW indicates that the target architecture is not binding, but there is a requirement stating that the guards have to conform to the NATO CIPE Functional Specification. SRS-7-170: The design and functionality of MG_CIPE SHALL conform to the NATO CIPE functional specification in [NC3A TN-1486, 2012]. Q - Why is the CIPE specification binding? Does this mean COTS guards not built in accordance with the CIPE specification but which offer the required functionality cannot be considered?"	Please see response to T2	AMD2
T164	Technical Book II Part IV Annex A	IV, p.240-263, Section 8.3 + Subsections	 The referenced Protection Profiles refer to Objectives of the Environment and the TOE of the IEG-C components . The requirements detailed in section 8.3 and following demand a composite TOE fulfilling the Common Criteria (CC) Protection Profile [NCIA TN-1485 V1.1, 2012]. Does NCIA expect contractor to take full responsibility for CC EAL4+ certification of PFE components and any other components within the composite TOE and requested timeframe? Protection Profile for Application Software Version 1.2 - NIAP PP_APP_V.1.2, 2016 Protection Profile for General Purpose Operating Systems NIAP PP_OS_V.4.1, 2016 Collaborative Protection Profile for Network Devices [NIAP CPP_ND_V.1.0, 2015] Collaborative Protection Profile for Network Devices/collaborative Protection Profile for Stateful Traffic Filter Firewalls Extended Package (EP) for Intrusion Prevention Systems (IPS) [NIAP PP_NDCP_IPP_EP_V.2.1, 2016] Standard Protection Profile for Enterprise Security Management Policy Management [NIAP PP_ESM_V.2.1, 2013] Standard Protection Profile for Enterprise Security Management Access Control [NIAP PP_ESM_AC_V.2.1, 2013] 		Pending

T165	Technical Book II Part IV Annex A	IV, p.240-263, Section 8.3 +	Does NCIA consider it realistic - we think it's not possible - to receive a CC EAL4+ certification	Pending
		Subsections	according to all TOE requirements for PFE MS Windows 2016 Server so that it meets PP OS V.4.1?	
T166	Technical Book II Part IV Annex A	IV, p.240-263, Section 8.3 + Subsections	Does NCIA consider it realistic - we think it's not possible - to receive a CC EAL4+ certification according to all TOE requirements for PFE PA260 so that it meets PP OS V.4.1 and other requirements? The PA-3200 series only has an Assurance level PP CC certification valid until 10/2022.	Pending
T167	Technical Book II Part IV Annex A	IV, p.80, 5.3.2, SRS 5-153	Given the overall objectives of IEG-C during the bidders conference to receive an innovative solution based on COTS cross domain solution products if possible, this requirement seems too specific and without details on the methodology of the user success rate measurement, contractor can not assess conformity or willingness to committ. Suggestion to delete SRS	Pending
T168	Technical Book II Part IV Annex A	IV, p.80, 5.3.3, SRS 5-126	Given the overall objectives of IEG-C, this requirement seems too specific. Suggestion to delete SRS	Pending
T169	Technical Book II Part IV Annex A	IV, p.81, SRS 5-162 / also p. 90 SRS 5-507	This requirement is too vague and ignores the realities of cross domain solution / IEG-C projects. General configuration e.g. IP is not the issue but the time consuming part is fully understanding HIGH LOW data traffic and defining the right filters / policies for the desired data objects and their schema definiton (if it exists). 1 day is possible but as a whole it might take several depending on the perspective on where a successful deployment starts and ends. Suggestion to delete, relax (MAY) or clarify SRS	Pending
T170	Technical Book II Part IV Annex A	IV, p. 96-105, Section 6.3.2 to 6.3.4.3	Given the overall objectives of IEG-C during the bidders conference to receive an innovative solution based on COTS cross domain solution products if possible, this is too specific. Existing products might work differently but generally serve the same objectives / functionalities for WEG patterns. Suggestion to delete, shorten or relax (MAY) section.	Pending
T171	Technical Book II Part IV Annex A	IV, 214, SRS-7-244 ff. and SRS-7-248 ff.	Suggestion to relax this requirement as scope (max attachments or types) are not about core scope of IEG-C > to protect classified information. Suggestion to relax as MAY requirement	Pending
T172	Technical Book II Part IV Annex A	IV, p. 216, SRS-7-262	Suggestion to relax this requirement as scope (dirty words) are not about core scope of IEG-C > to protect classified information. Suggestion to relax as MAY requirement	Pending
T173	Technical Book II Part IV Annex A	Part IV SOW Annex A, Page 212, SRS-7-217 ff.	This requirement needs more clarification: Please define "positive outcome" for the subordinate Label validation capabilities. What is the return of MG_CIS_LV, if not all of the subordinate Label validation capabilities return a positive outcome? Must a positive outcome of MG_CIS_LV_FLOT or MG_CIS_LV_KEYWORDS be respected, even if MG_CIS_LV_STANAG returns a "negative outcome", e.g. the STANAG label states, that information is not to be shared with the LOW network?	Pending
T174	Technical Book II Part IV Annex A	Part IV SOW Annex A, Page 138, SRS-6-228	Which systems will generate the "Keyed-Hash Message Authentication Code"? Is HMAC approved by the responsible SAA? Which entity will provide the secrets used as "keys" for HMAC? Which entity will update the secrets?	Pending
T175	Technical Book II Part IV Annex A	Part IV SOW Annex A, Page 32, SRS-4-60	In which way is the Low Domain Firewall involved in routing authorised management traffic to the appropriate IEG-C component?	Pending
T176	Technical Book II Part IV Annex A	Part IV SOW Annex A, Page 42, SRS-4-128	The SRS-4-49 already details a specific product from vendor Palo Alto to be used as firewall. Does SRS-4-128 require an additional malware/virus scanner? Again from Palo Alto or a different vendor?	Pending
T177	Technical Book II Part IV Annex A	Part IV SOW Annex A, Page 112, SRS-6-58	Requirement enforces the use of IPMI as management protocol for the WG_DEX. Supporting IPMI will impose unnecessary restrictions on the bidder. The requirement enforces the use of RDP as management protocol for the WG_DEX. Supporting RDP will impose unnecessary restrictions on the bidder.	Pending

Reference Document	Reference ID (BI, SOW requirement, SRS requirement)	Desription	Bid Reference	Remarks	Compliance statement
ві	[BI – 3.2.2]	 Part 2 is the Technical Proposal provided as a1 .zip File Submitted by Email not larger than 20MB total, which includes: Volume 1, Engineering, text document: 1 PDF file Volume 2, Supportability, text document: 1 PDF file Volume 3, Management text document: 1 PDF file Annex, Bid Requirements Cross Reference Matrix (BRCM) (BRCM): 1 Excel file If necessary, the technical volume may be separated into more than one email. Maximum email size per each email is 20MB total 			
		The Bidders Technical Proposal is organised and submitted in three volumes: 3.4.1.1 Volume 1 – Technical – covering requirements from Sections 1, 5, 7, 8, 10, 11 and Annex A, C and H of the SOW; and 3.4.1.2 Volume 2 – Supportability – covering requirements from Sections 6, 7, 11, 12, 13, 14, 15 and Annex A, C and F of the SOW. 3.4.1.3 Volume 3 – Management – covering requirements from Sections 1, 2, 3, 4, 5, 6, 7, 9, 10, 14, 15 and Annex A and B of			
BI	[BI – 3.4.1] [BI – 3.4.2]	the SOW, and an Executive Summary of the entire Technical Proposal; The mapping of SOW sections to volumes has been done to facilitate a consistent organisation of the Technical Proposal and its subsequent evaluation. Bidders adhere to the mapping, even if individual requirements within sections of the SOW may seem to more logically belong in a different volume. Requirements that are answered in Volumes other than as indicated in paragraph 3.4.1 will not be evaluated			
	[BI – 3.4.3]	The proposed Technical Solution is not "conditional" in nature.			
BI	[BI – 3.4.6.3.1	The Bidder provided an initial System Design Specification (SDS) which describes its proposed technical solution and demonstrates its understanding of the requirements and security requirements as stated in in the SRS The initial SDS follows the outline of SOW Section 15			
BI	[BI – 3.4.6.3.2]				
BI	[BI – 3.4.6.3.3]	The initial SDS includes an initial Product Breakdown Structure (PBS).			
BI	[BI – 3.4.6.3.4]	The initial SDS demonstrates a comprehensive understanding of all of the requirements of SRS(SOW Annex A) and describe how every requirement is addressed in the Bidder's proposed solution.			
ві	[BI – 3.4.6.3.5]	In particular, the initial SDS describes how the following requirements are planned to be addressed: (a) System Architecture (b) The following Operational and Systems Views, as defined in the NATO Architecture Framework (NAF, [NAC AC/322- D(2007)0048, 2007]): (c) NOV-1, High-Level Operational Concept Diagram; (d) NSV-1 Systems Interface Description (Composition); (e) NSV-1 System Interface Description (Intra System); (f) NSV-1 System Interface Description (Intre System); (g) NSV-2, Systems Communications Description; (h) NSV-2a: System Port Specification; (i) NSV-4 System Functionality;			

1		The initial SDS addresses Interface Dependencies and Constraints. In particular all separate interfaces described in SOW	
		Annex A must be described in the Bidder's design.	
ві	[BI – 3.4.6.3.6]	5	
	[=]	The initial SDS contains rationale which convinces that performance requirements defined in Book II, Part IV SOW, Annex A	
		will be met.	
BI	[BI – 3.4.6.3.7]		
	[5: 0::10:0:7]	The initial SDS shows clear traceability between the Contractor's design and the requirements in Book II, Part IV SOW Annex	
BI	[BI – 3.4.6.3.8]	Α.	
	[=]	For bidding purposes only, in volume 2, the Bidder commits to meet all requirements described in SOW Section 7 for overall	
BI	[BI – 3.4.6.4.1]	system engineering	
	[]	The Bidder provided an initial System Implementation Plan (SIP), which describes its proposed approach to meeting of the	
	[BI – 3.4.6.5.1]	requirements of SOW Section 7	
	[]	The initial SIP follows the outline from Book II, Part IV SOW Section 15	
BI	[BI – 3.4.6.5.2]		
BI	[BI – 3.4.6.5.3]	The initial SIP covers the entire implementation scope (Book II, Part IV SOW, Annex C)	
<u> </u>		The initial SIP demonstrates a clear understanding of the services to be implemented and describe the Bidder's approach to	
ві	[BI – 3.4.6.5.4]	migration of users.	
	[=]	The initial Migration Plan included in the initial SIP fully describes the Bidder's methodology and approach to the migration,	
		including the stages he proposes be followed, the testing to be done, the roll back capabilities proposed and the way in which	
ві	[BI – 3.4.6.5.5]	risks will be managed during the migration process.	
		For bidding purposes only, the Bidder assumes that all elements of its design must be provided in full at the implementation	
ві	[BI – 3.4.6.5.6]	stage and that no hardware, software or business processes exist on site in a reusable form.	
		The initial SIP describes the Bidder's approach to site surveys, identify the issues to be checked on site and relate the site	
BI	[BI – 3.4.6.5.7]	survey to the overall implementation effort in terms of timing and purpose, in accordance with SOW sections 7, 9, and 15.	
	. ,	The initial SIP identifies all information to be collected during site surveys, including locations and facilities which need to be	
BI	[BI – 3.4.6.5.8]	inspected.	
BI	[BI – 3.4.6.5.9]	The initial SIP describe the size of team and level of effort involved for site surveys.	
		The initial SIP describe its proposed arrangements to ensure timely and complete delivery and installation of all relevant	
BI	[BI – 3.4.6.5.10]	supplies and equipment	
BI	[BI – 3.4.6.5.11]	The initial SIP describe its proposal for the implementation of the IEG-C Reference System	
BI	[BI – 3.4.6.5.12]	In all descriptions provided, the Bidder is clear regarding how its approach minimises disruption to existing services.	
		The Bidder provided an initial Master Test Plan (MTP), which describes its proposed approach to meeting the requirements	
BI	[BI – 3.4.6.6.1]	of SOW Section 8	
		The initial MTP describes a coherent high level approach to testing, verification & validation, providing initial scope and	
	[BI – 3.4.6.6.2]	schedule on the TVV phases as required in SOW Section 8, Table 14.	
		The MTP is consistent with other bid documents such as the PMS and the SIP: MTP activities be included in the PMS and	
	[BI – 3.4.6.6.3]	products be described in the PBS.	
		The Bidder provided an initial Defect Reporting and Management Plan, which describes its proposed approach to meeting the	
	[BI – 3.4.6.6.4]	requirements of SOW Section 8.	
		The bidder provided 2 exemplary test cases on how to meet two specific requirements SRS-4-141 and SRS-6-70. Test cases be	
	[BI – 3.4.6.6.5]	compliant with the SOW clauses and templates provided	

	The Bidder described their input to the security accreditation documentation in support of the accreditation process as part		
	of the initial PIP in accordance with Section 10 of the SoW:		
	(a) CIS Description		
	(b) Security Risk Assessment (SRA) Report		
	(c) Generic System Interconnection Security Requirements Statement (SISRS)		
	(d) Security Operating Procedures (SecOPs)		
[BI – 3.4.6.7.1]	(e) Security Test and Validation Plan (STVP)		
	The Bidder provided a CIS Description document to include at a minimum but not limited to, the following information:		
	(a) Detailed technical description showing the main components and the high level as well as detailed information flows,		
	(b) Description of all internal and external connections of the system,		
[BI – 3.4.6.7.2]	(c) List of hardware and software components used,		
	The Bidder provided an initial qualitative Security Risk Assessment (SRA), which describes its proposed technical solution and		
[BI – 3.4.6.7.3]	demonstrates its understanding of the requirements in Section 10 of the SOW.		
	The initial SRA is developed in accordance with "Guidelines for Security Risk Management (SRM) of Communication and		
	Information Systems (CIS) (Ref. AC/35-D/1017-REV3)" and include the following:		
	(a) Identification of the scope and objective of the security risk assessment;		
	(b) Determination of the physical, personnel and information assets which contribute to the fulfilment of the IEG-C;		
	(c) Determination of the value of the assets (very low – low – medium – high – very high);		
	(d) Identification of the threats and vulnerabilities to the risk environment and their level;		
	(e) Identification of existing security measures (e.g. assertions about physical and personal security measures already in place		
	at NATO sites);		
	(f) Identification of countermeasures proposed in the Bid;		
[BI – 3.4.6.7.4]	(g) Determination of of risk value after implementation of security measures listed in points (e) and (f)		
	The Bidder provided an initial Generic System Interconnection Security Requirements Statement (SISRS) that:		
	(a) Describe the security measures mandated by NATO Security Policy and supporting directives		
	(b) Describe the minimum levels of security deemed necessary to countermeasure the risk(s) identified in a risk assessment;		
	(c) have a unique identifier for each security requirement;		
	(d) Indicate mandatory and recommended Security Mechanisms (SMs).		
	(e) System Interconnection Security Requirement Statement (SISRS) template under Annex F-2 shall be used. For bidding		
[BI – 3.4.6.7.5]	purposes, this template and initial bid submission will be NATO Unclassified.		
	The Bidder provided initial Security Operating Procedures (SecOPs) to include as a minimum the following procedures:		
	(a) Centralized administration and monitoring of IEG-C;		
	(b) Backup & recovery;		
	(c) Emergency procedures;		
	(d) Security Test and Verfication Plan (STVP) template under Annex F 1 shall be used. For bidding purposes, this template and		
[BI – 3.4.6.7.6]	initial bid submission will be NATO Unclassified.		
	Initial Sec OPs also cover all security requirements identified in the SRA and SSRS which are not fully fulfilled by technical		
[BI – 3.4.6.7.7]	countermeasures		
	The Bidder provided an initial STVP that describes the security testing and verification of the CIS Security measures to be		
	implemented. A complete and detailed sequence of steps to be followed proving that the security mechanisms designed into		
	IEG-C enforce the security requirements identified in the SISRS. The STVP contain traceability matrix between tests and SISRS		
[BI – 3.4.6.7.8]	requirements		
			1

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		For each STVP security test the following details are identified:		
		(a) The objective of the security test;		
		(b) An outline description of the security test;		
		(c) A description of the execution of the security test (too include technical instructions how to conduct the test);		
		(d) The pass criteria for the security test.		
		(e) Reference to applicable SISRS requirement(s);		
	[BI – 3.4.6.7.9]	(f) Reference to applicable Security Mechanism(s).		
	[BI – 3.4.6.7.10]	The Bidder described the STVR for every instance of security testing conducted based on the STVP		
		For each STVR security test the following details are identified:		
		(a) Test ID;		
		(b) An outline description of the security test;		
		(c) Detailed results of the security tests;		
		(d) Test status (e.g. in progress, passed, failed)		
		(e) Test completion (in per cent);		
		(f) Failure severity (e.g. critical, serious, major, less important, none);		
		(g) Test date;		
		(h) Information about who conducted the test;		
BI	[BI – 3.4.6.7.11]	(i) Information about who voltated the test,		
	[0] = 3.4.0.7.11]	STVR contain overall test summary details:	 <u> </u>	
		(a) Identification of the element under tests;		
		(b) Tests starting date;		
		(c) Tests finishing date;		
		(d) Amount of all tests to be conducted;		
		(e) Amount of tests executed;		
		(f) Tests passed;		
		(g) Tests failed;		
	[BI – 3.4.6.7.12]	(h) Tests still in progress		
		The hidders around a sumply shall security statement for security enforcing products securitize to $\Lambda C/222$ D/2017/001C		
	[BI – 3.4.6.7.13]	The bidders provide a supply chain security statement for security enforcing products, according to AC/322-D(2017)0016.		
		The bidders provided a statement confirming that only evaluated boundary protection devices (e.g. guards) have been		
	[BI – 3.4.6.7.14]	proposed. The evaluation be according to Common Criteria or National equivalent, in accordance with AC/322-D/0030-REV5.	 ļ	
		The bidders provided a statement confirming that only Tempest tested hardware (compliant with SDIP-29/2) have been		
Ы	[BI – 3.4.6.7.15]	proposed. Alternatively bidders can consider and propose usage of Tempest racks (compliant with SDIP-29/2).	ļ	
		Integrated Logistics Support		
		The Bidder provided a draft Integrated Logistics Support Plan in accordance with the SOW requirements including the		
	[BI – 3.4.7.2.1	required sub-sections and content with sufficient details to demonstrate the Bidder's ability to perform the ILS activities.	<u> </u>	
		The Bidder demonstrate its understanding and compliance with all the SOW requirements by creating appropriate		
	[BI – 3.4.7.2.2	subsections and detailing the requirements with actual proposed activities.		
		The Bidder provided a detailed approach for the Design Influence (RAMT and LSA) areas for the actual analyses, documenting		
	[BI – 3.4.7.2.3	the analysis, tools, skills and relation with SRS and design in general.		
		The Bidder detailed the different Maintenance and Support Levels, the interfaces between these different levels,		
		maintenance and support environment, constraints, locations, procedures, artefacts, organisation, personnel skills, related		
		ITIL processes and responsibilities between different parties to maintain the delivered baselines of the system in different		
	[BI – 3.4.7.2.4	phases of the lifecycle.		

		The Bidder detailed its approach for the Initial Operational Support and warranty requirements, details the activities based		
		on each party's responsibilities including the proposed services, response times, organization and planning in accordance with		
	[BI – 3.4.7.2.5	the SOW requirements.		
		The Bidder detailed its approach for the Supply Support and PHST requirements and details the proposed activities in		
	[BI – 3.4.7.2.6	accordance with the SOW requirements.		
	[BI – 3.4.7.2.7	The Bidder demonstrated that all ILS activities and milestones are integrated into the project master schedule.		
	-	Draft Support Case		
		The Bidder provided a draft Support Case, as detailed in the SOW section 6.4. The Support Case provide sufficient details to		
		show the Bidder's approach and capability to perform the required LSA and RAMT studies, including how the proposed		
	[BI – 3.4.7.3.1]	design take the SOW and SRS RAMT requirements into consideration.		
		The Bidder demonstrated its understanding and compliance with the Support Case requirements by creating appropriate		
		subsections and detailing the requirements with actual proposed activities to show the Bidder's approach and capability to		
		perform the required LSA and RAMT studies, including how the proposed design take the SOW and SRS RAMT requirements		
	[BI – 3.4.7.3.2]	into consideration.		
		Configuration Management		
		The Bidder provided a draft Configuration Management Plan (CMP) which describe how Configuration Management be		
	[BI – 3.4.7.4.1]	performed in accordance with the requirements of the SOW Section 12		
		The Bidder provided details to demonstrate its understanding of the CM process on how it be planned, managed, resourced,		
		executed and provided including the organization and personnel, CM tools, directives and standards, meetings, reviews and		
	[BI – 3.4.7.4.2]	deliverables (baselines, documents, CMDB etc.).		
		The Bidder provided the Configuration Management Plan in the structure and detailed content in accordance with the SOW		
		requirements including minimum the 'Organization, Configuration identification and Documentation, Baselines,		
		Configuration control, Interface management, Change request Process, Configuration Status Accounting, Configuration		
	[BI – 3.4.7.4.3]	Audits and Reviews and Configuration Management Tools'.		
		Quality Assurance		
		The Bidder provided a draft Quality Assurance Plan (QAP) which conforms to the requirements detailed in Section 11 of the		
	[BI – 3.4.7.5.1]	SOW.		
		The Bidder demonstrated that the Quality Management System is in place for the project in accordance with AQAP-2110 and		
	[BI – 3.4.7.5.2]	/or equivalent ISO standards.		
		The Didden demonstrated its understanding of the OA as a instruments of this analysis the detailing the OA as a solution for		
		The Bidder demonstrated its understanding of the QA requirements of this project by detailing the QA procedures for		
		requirements analysis, design, development, production, installation, test, acceptance, certification, support, defects and		
	[BI – 3.4.7.5.3]	corrective actions, documentation, reviews and audits including subcontractor management specified for this project.	├ ───	
1		Training The Pidder provided a draft Training Plan describing how he conduct the Training Needs Analysis (TNA), and provide the		
		The Bidder provided a draft Training Plan describing how he conduct the Training Needs Analysis (TNA), and provide the		
	[BI – 3.4.7.6.1]	necessary training courses in accordance with Section 6 of the SOW.		+
		The Bidder demonstrated its understanding and compliance with Training Program requirements by explaining how the Bidder will schedule, resource and manage the various training requirements (TNA, training schedule, training courses and		
		material, training tools, media, training personnel, training reviews, meetings, assessment, evaluation and reporting) starting		
		from the contract award until the acceptance.		
	[BI – 3.4.7.6.2]	The Bidder demonstrated its understanding of the Training Needs Analysis (TNA) concept based on the references from Bi-Sc		
		and experiences from other projects by explaining how the Training Needs Analysis (TNA) concept based on the references from Bi-sc and experiences from other projects by explaining how the Training Needs Analysis will be performed with all possible		
	[BI – 3.4.7.6.3]	deliverables, inputs and outputs to the process.		
BI	[BI – 3.4.7.8.3] [BI – 3.4.8.3.1]	Bidders provided an overview of the salient features of their technical Bid in the form of an executive summary.		+
וס	[1.6.5.4.0] [10]	places provided an overview of the salient reductes of their technical bid in the form of an executive suffillally.	1	

r		The Everythics Summary provided a gameral description of the main points antisized in each of the serviced sections of the		
		The Executive Summary provided a general description of the major points contained in each of the required sections of the		
		technical proposal (i.e., 3 volumes) and demonstrate the depth of the Bidder's understanding of: the project, the		
		implementation environment, the problems and risks of project implementation foreseen by the Bidder, and the Bidder's		
		ability to communicate high level concepts in an appropriate and succinct manner. The Bidder highlight the strengths which it		
		and its team bring to the project in terms of minimising the problems and reducing the risks, while meeting the overall		
BI	[BI – 3.4.8.3.2]	schedule, and the key points of the technical approach. This summary not exceed 10 pages.		
		Bidders explicitly stated in the Executive Summary that, should their firm be selected and awarded the contract resulting		
		from this solicitation, the delivered product(s) and services comply with the requirements of the Statement of Work		
BI	[BI – 3.4.8.3.3]	(including all annexes).		
		Bidders compiled a detailed Table of Contents which lists not only the section headings but also the major sub-sections, and		
BI	[BI – 3.4.8.4]	topic headings of the Bid.		
		The Bid demonstrated the Bidder's understanding of the Purchaser's requirements as described in the Statement of Work		
		(SOW), Book II Part IV. The strategic vision behind the IE-C project, the objectives, constraints and scope must all be		
BI	[BI – 3.4.8.5.1]	addressed and related to the technical solution described in the Bid.		
		Bidder Qualifications and Key Personnel		
		Volume 3 describe the company structure and activities of the prime Contractor. The country in which the prime Contractor		
		is registered be identified and the size and location(s) of the company headquarters and subsidiary branches described.		
		Within that structure the location and organizational unit of the office which will manage this Contract be identified. This		
BI	[BI – 3.4.8.6.1]	section also describe the major activities of the company and how they are distributed across the organisation.		
		The Bid provide a description of the corporate capabilities of the Bidder, including corporate experience, corporate structure		
		and individual skills and experience. In particular, the Bidder provide evidence of relevant and recent experience in the		
		design, integration, testing, and implementation of projects similar to the IEG-C Project. The Bidder provide a section which		
		describes how the experience and expertise of the prime Contractor and all nominated sub-Contractors will contribute to the		
BI	[BI-3.4.8.6.2]	successful execution of the Contract.		
		The Bidder provide a section which identifies its major proposed sub-Contractors for the Project. Major proposed sub-		
		Contractors, for purposes of this section, refer to the criteria set forth in Clause 10 of the Prospective Contract General		
		Provisions entitled "Sub-Contracts". The Bidder identify the firm and the nation of origin and describe the contribution which	-	
		the sub - Contractor is expected to make to the execution of the project. The Bidder also provide rationale for the selection of	f	
BI	[BI – 3.4.8.6.3]	the sub-Contractor and describe the added value the sub-Contractor will bring to the execution of the project.		
		Volume 3 provide a description of individual skills and experience in relation to the project of all project team members and		
		Subject Matter Experts (SMEs) foreseen to support the project team. The description include how each individual expertise		
BI	[BI – 3.4.8.6.4]	and experience will add value to the team.		
		Volume 3 provide the resumes / Curricula Vitae (CV) and supporting certification documentation (e.g. Prince 2 certificates) of		
BI	[BI – 3.4.8.6.5]	each proposed Key Personnel that meet or exceed the requirements in SOW Section 13.		
		Project Management		
		In order to demonstrate how the Bidder plans to approach the management of the project (according to Section 4 of the		
		SoW), the Bidder submit initial versions of the Project Implementation Plan (PIP) to include the Project Management Plan		
		(PMP), of the Work Breakdown Structure (WBS), of the Product Breakdown Structure (PBS) and Product Flow Diagram (PFD);		
		Project Master Schedule (PMS); and identify all acitivites related to the security accreditation process (according to Section		
BI	[BI – 3.4.8.6]	Section 10 of the SoW).		
		The Bidder submitted a preliminary Project Implementation Plan (PIP) in accordance with the requirements of Section 4 and		
		15 of the SOW, which clearly describes how the Bidder intends to implement the totality of the project in compliance with		
BI	[BI – 3.4.8.6]	the contractual requirements and the following specific requirements:		

		Project Overview. The Bidder provided the Project Overview which provide an executive summary overview of the offered		
		capability. The Project Overview also summarise the main features of each of the sections of the Technical Proposal and		
ы	[BI – 3.4.8.7.2.1]	indicate in broad detail how the Project will be executed during the full lifetime of the Project;		
ы	[BI = 3.4.8.7.2.1]			
		The PIP includes a preliminary Project Management Plan (PMP) that defines how the Bidder intends to manage this project		
		from contract signature through Final System Acceptance and throughout any warranty periods. The PMP consider all		
Ы	[BI – 3.4.8.7.2.2]	aspects of project management and control and demonstrate how all the critical dates defined in the contract will be met;		
		The PIP includes a Project Master Schedule (PMS) that contain all contract events and milestones for the Project. The PMS		
		show all contractual deliverables, their delivery dates, and the tasks associated with them. The PMS for each task identify the	2	
		start and finish dates, duration, predecessors, constraints, and resources. The PMS provide network, milestone, and Gantt		
BI	[BI – 3.4.8.7.2.3]	views, and identify the critical path for the overall project.		
		The Bidder provided a statement assuring that all requirements be met for the Site Survey in accordance to the requirements	5	
BI	[BI – 3.4.8.7.2.4]	stated in Section 9 of the SoW, Book II Part IV.		
		The submitted documents include sufficient information to demonstrate the Bidder's understanding of the key challenges		
BI	[BI – 3.4.8.7.2.5]	involved in the IEG-C project, and demonstrate that the Bidder is proposing an approach that can deal with these challenges.		
BI	[BI – 3.4.8.8.1]	The Bidder provided an initial PMP following the structure called for in SOW Section 15, Book II Part IV.		
		The initial PMP demonstrate how the Project Controls required under SOW Section 4 will be implemented during the project.		
		In particular the Bidder demonstrate that the Project Management methodology proposed for the project is suitable to the		
BI	[BI – 3.4.8.8.2]	successful execution of the project.		
		The initial PMP demonstrates the project implementation including its management structure and project management		
BI	[BI – 3.4.8.8.3]	processes, personnel assignments, external relationships necessary to provide the capability as required by this Contract.		
		The initial PMP is sufficiently detailed to ensure that the Purchaser is able to assess the Contractor plans with insight into the		
		Contractor's plans, capabilities, and ability to satisfactorily implement the entire project in conformance with the		
ві	[BI – 3.4.8.8.4]	requirements as specified in the SOW.		
		The initial PMP demonstrated that the Bidder has understood the process imposed in SOW Section 15.9 and describe		
BI	[BI – 3.4.8.8.5]	supporting the cycle of design reviews and approvals.		
	[5: 01:00:010]	The initial PBS identifies all products and distinguish between management products and specialist products in Section 4 and		
ві	[BI – 3.4.8.9.1]	15 of the SOW.		
	[2. 0	The PBS includes a hierarchical diagram of all the products (management products and specialist products), having at its		
		topmost product the final product of the overall project, i.e., the IEG-C System.Describe each product (management products		
		and specialist products) including its quality requirements. The product descriptions address sufficient detail to permit		
Ы	[BI – 3.4.8.9.2]	management assessment of progress with EVM.		
BI	[BI – 3.4.8.10.1]	The Bidder submitted an initial Project Master Schedule (PMS).		
BI	[BI – 3.4.8.10.1]	The PMS is according to Section 4.4.6 of the SoW.		
	[0] = 0.4.0.10.2]	The initial PMS demonstrate in particular include how the bidders plan to apply EVM throught the project implementation	<u>├ </u>	
BI	[BI – 3.4.8.10.3]	duration.		
	[0] = 2.4.0.10.5]	The PMS include additional subordinate milestones that the Bidder plans to achieve which make clear the extent of parallel		
		activities and the detailed phasing and dependencies of different activities.		
 	[BI - 3.4.8.10.4]	The PMS meet the project deadlines (EDC + x months) as described in SOW Section 3, Book II Part IV.		
	[BI – 3.4.8.10.5]	The Finis meet the project deadlines (LDC + A months) as described in SOW Section 5, book in Part IV.		

		Risk Management
		The Bidder described in the intial RMP how he will implement the Risk Management process according to Section 4 of the
		SoW, with the minimum details:
		(a) Overall Risk Management approach
		(b) Key Risk Management processes
		(c) Key Risk Categories
		(d) Risk Prioritization Matrix
		(e) Risk Management roles and responsibilities
	[BI – 3.4.8.11.1]	(f) Risk Log template which at minimum follow the outline recommended in this SOW (see Section 15.2)
	[BI – 3.4.8.12.2]	The Risk Log is in accordance with SOW Section 10.2, Book II Part IV.
	[51 5.1.6.12.2]	The following risks are addressed in the Bid listing the risks, and indicating for each one the following information (but not
		limited to):
		(a) Risk identifier: unique code to allow grouping of all information on this risk;
		(b) Description: brief description of the risk;
		(c) Risk category (e.g., management, technical, schedule, and cost risks);
		(d) Impact: effect on the project if this risk were to occur;
		(e) Probability: estimate of the likelihood of the risk occurring;
		(f) Risk rating (High, Medium, Low);
		(g) Proximity: how close in time is the risk likely to occur;
		(h) Response strategy: avoidance, mitigation, acceptance, transference
		(i) Response plan(s): what actions have been taken/will be taken to counter this risk;
		(i) Owner: who has been appointed to keep an eye on this risk;
		(k) Author: who submitted the risk;
		(I) Date identified: when was the risk first identified;
		(m) Date of last update: when was the status of this risk last checked;
	[BI – 3.4.8.11.3]	(n) Status: e.g., closed, reducing, increasing, no change.
	[DI 3.4.0.11.3]	As part of the initial PMP, the Bidder describe how risks will be managed throughout the execution of the contract in
	[BI – 3.4.8.11.4]	response to the requirements of SOW Section 4
┝────┤	[5, 3,4.0,11.4]	Section 1 of the SOW contains an introduction to the IEG-C project as well as some high level requirements. The Bidder
	[BI – 3.4.8.12.1]	provided a simple affirmation that all requirements will be met
┝────┤	[5] 5.4.0.12.1]	Section 2 of the SOW contains the list of applicable documents. he Bidder provided a simple affirmation that all documents
	[BI – 3.4.8.12.2]	from Section 2 be adhered to
┝────┤	[0, 3.4.0.12.2]	Section 15 of the SOW contains outlines of some IEG-C documents to be delivered. The Bidder provided a simple affirmation
	[BI – 3.4.8.12.3]	that all requirements for these documents will be met
┝────┤	[ט – ס.4.ס.דב.ס]	The SOW Annex A provides the list of anticipated PFEs. Volume 1 of the Bid contain an update of the tables contained in SOW
		Annex A. Tthe Bidder filled in estimated quantities as well as inserted additional PFE as required depending on their proposed
	[BI – 3.4.8.12.5]	technical solution
	[DI = 3.4.8.12.3]	The Bid demonstrates a clear understanding of PFE and describe how the Bidder proposes to make use of / integrate with
Ы		PFE during the execution of the contract
	[BI – 3.4.8.12.6]	Volume 3 contains a Bid-Requirements Cross reference Matrix (BRCM) in the format indicated at BOOK I - ANNEX D.
DI	[BI – 3.4.8.12.8]	Volume 5 contains a bid-hequitements cross reference (and in the format indicated at BOOK I - Annex D.

Reference Document	Reference ID (BI, SOW requirement, SRS	Description	Bid Reference	Remarks	Compliance statement
SOW	[SOW-1]	The Contractor SHALL take due account of all the elements of purpose described in this SOW and ensure during the execution of the contract			
3000	[5010-1]	that the purpose described in this SOW is completely addressed in the products and services provided.			
SOW	[SOW-2]				
SOW		The Contractor SHALL deliver the IEG-C as detailed in the System Requirement Specifications (SRS).			
SOW	[SOW-3]	The Contractor SHALL provide all necessary resources to include services, personnel, materials, components, equipment[1], data[2] and			
		documentation needed to accomplish all the tasks described in the SOW, to meet all the requirements of the SOW (including annexes) and to			
6011/	[[[]]]	fulfil all other Contract provisions.			
SOW	[SOW-4]	The documents listed in SECTION 2: Applicable Documents will be revised over time. The Contractor SHALL always use the current version of			
5011/	[[[]]]	each document. The Contractor SHALL be aware and comply with above mentioned documents throughout the Contract.			
SOW	[SOW-5]				
SOW	[SOW-6]	The Contractor SHALL provide project management services.			
SOW	[SOW-7]	The Contractor SHALL provide systems engineering services to cover:			
SOW	[SOW-8]	The Contractor SHALL provide test, verification and validation services to prove the system Product Baseline is meeting its requirements.			
SOW	[SOW-9]	The Contractor SHALL fully document the design, operation, and maintenance of IEG-C by providing the required manuals, operational			
		procedures, supporting technical data, computer software and drawings required by the Contract.			
SOW	[SOW-10]	The Contractor SHALL conduct all necessary activities to obtain Security Accreditation at the NATO SECRET (NS) and applicable Mission			
		SECRET (MS) levels for all installed sites/instances.			
SOW	[SOW-11]	The Contractor SHALL provide System Services as described in SECTION 7			
SOW	[SOW-12]	The Contractor SHALL co-ordinate with the Purchaser to ensure that the site preparation activities are completed in accordance with the			
		installation requirements of the delivered system.			
SOW	[SOW-13]	The Contractor SHALL procure and prepare the system components, as agreed in this contract, for delivery to the sites specified in this			
		Contract.			
SOW	[SOW-14]	The Contractor SHALL deliver the required software to the prepared sites, together with those that may be provided by the customer as PFE,			
		and execute installation/deployment, on-site testing, training, and activation.			
SOW	[SOW-15]	The Contractor SHALL provide support to application and service management integration			
SOW	[SOW-16]	The Contractor SHALL provide Integrated Logistics Support (ILS), including training services, as described in SECTION 6 Integrated Logistics			
		Support (ILS).			
SOW	[SOW-17]	The Contractor SHALL provide operation and maintenance support with appropriate service management interfaces both at information			
		(monitoring / reporting) and process (request / incident) level (see Annex F Maintenance and Support Concept (After FSA)).			
SOW	[SOW-18]	The Contractor SHALL comply with all overarching requirements as described in the SOW (Testing process, Site survey process, Quality			
		Assurance, Configuration Management).			
SOW	[SOW-19]	The Contractor SHALL meet or "exceed" the Notional schedule (see 3.2: Notional schedule).			
SOW	[SOW-20]	The Contractor SHALL be aware and comply with the documents listed in SECTION 2 throughout the Contract.			
SOW	[SOW-21]	The Contractor SHALL note that the above milestones have been defined in a chronological order. The start of activities leading to a			
		milestone requires the acceptance of the previous milestone (for example, the start of system implementation activities (SECTION 13)			
		requires the prior acceptance of the DA milestone).			
SOW	[SOW-22]	The Contractor SHALL adhere to the Overall Project Schedule. Contractor SHALL reflect this in all relevant Project Management			
		Documentation (Section 4.4: Project Management Documentation).			
SOW	[SOW-23]	The Effective Date of Contract (EDC) SHALL be established at the time of Contract Award (CAW).			Ì

SOW	[SOW-24]	The Contractor SHALL integrate IEG-C in its Project Master Schedule at minimum by committing to deliver: o System Requirements Review (SRR) o Preliminary Design Review (PDR) o Critical Design Review (CDR) o Factory Acceptance Test (FAT) o Acceptance of IEG-C security accreditation package o System Integration Testing (SIT) + System Acceptance Testing (SAT)+User Acceptance Testing (UAT) o Deployment Authorization (DA) o Preliminary System Acceptance (PSA) o Site Accreditation (security accreditation of interconnection via particular instance of IEG-C) o Site Acceptance Phase (SA) o Operational Test & Evaluation (OT&E)		
	1	o Final System Acceptance FSA		
SOW	[SOW-25]	The Contractor SHALL meet or "exceed" the milestones mentioned in the above schedule. "Exceed" SHALL be understood as a situation		
		where the Contractor has delivered earlier than the dates (i.e. EDC + 'x' months) mentioned in the above schedule, and the Purchaser has		
		accepted the milestone accordingly.		
SOW	[SOW-26]	The Contractor SHALL implement 11 IEG-C on the sites marked as "Mandatory Sites" in Table Annex B 15 – Site Type and Location of Annex		
	<u> </u>	B.1		
SOW	[SOW-27]	The Contractor SHALL propose the implementation sequence of the sites in Master Test Plan. The final sequence will be determined in coordination with the Agency.		
SOW	[SOW-28]	On the exercise of a contract option, the Contractor MAY implement up to 7 additional IEG-C on the sites marked as "Optional Sites" in Table		
		Annex B 15 – Site Type and Location of Annex B.1		
SOW	[SOW-29]	The Contractor SHALL execute all project management activities (see SECTION 4: Project Management) due for each milestone, and all		
		associated deliverables will have been approved by the Purchaser to enable successful completion of each milestone.		
SOW	[SOW-30]	The Contractor SHALL organize and conduct the SRR (EDC+2MO) at the Purchaser's facility to present the updated SRS with its proposed		
	ļ	changes for the design and integration of the IEG-C which will then become the Functional Baseline (FBL).		
SOW	[SOW-31]	The Contractor SHALL use as a main source for SRR the ISO/IEC/IEEE29148 (Systems and software engineering — Life cycle processes —		
		Requirements engineering), the IEEE12207 and the IEE15288 (Systems Engineering).		
SOW	[SOW-32]	The Contractor SHALL review the Contractual IEG-C System Requirements Specification (SRS) and all other applicable documents:		
	1	o liaise with NATO subject matter experts as necessary;		
	1	o prepare its recommendations in terms of proposed changes to the System Requirements Specification (SRS);		
	1	o The Contractor may propose changes to the SRS, in order to resolve inconsistencies and/or make improvements; such proposals SHALL be considered by the Purchaser through the CCB process after Systems Requirements Review Meetings.		
		considered by the randiaser through the CCD process after systems requirements review intertings.		
SOW	[SOW-33]	The Contractor SHALL identify any inconsistencies within the requirements or that are in conflict (e.g. with design constraints).		
SOW	[SOW-34]	The Contractor SHALL justify any proposed changes to the requirements by the expected system cost, schedule, performance, and		
		supportability impacts.		
SOW	[SOW-35]	The Contractor's SRS SHALL be the Purchaser provided SRS with approved changes and, as required, extended with additional details		
		supporting the approved scope.		
SOW	[SOW-36]	The Contractor's proposed changes to the SRS SHALL be delivered prior to SRR (EDC+2MO).		
SOW	[SOW-37]	In planning the SRR meeting, the Contractor SHALL include Entry Criteria given in Table 3: The SRR Entry Criteria and make them available to		
	[(0)1/ 20]	the Purchaser at least two (2) weeks prior to the SRR (EDC+2MO)		
SOW	[SOW-38]	The Contractor SHALL perform a System Requirements Analysis Review (see Section 5.3: System Requirements Analysis and Review).		
SOW	[SOW-39]	The Contractor SHALL update the Change Proposal documentation (see 12.6 Engineering Change Proposals (ECP)).		
SOW	[SOW-40]	During the event the Contractor SHALL collect from the PURCHASER assessment inputs based on Table 4: The SRR Success Criteria and upon		
		conclusion of the SRR the Contractor SHALL produce a report and make it available to the Purchaser at most (1) week after the SRR.		

SOW	[SOW-41]	The Contractor's SRR SHALL be considered completed when the Purchaser and the Contractor have agreed to all necessary changes to the			
	[60]14 40]	SRS such that the SRS is sufficient to begin or continue with the design and implementation work.			
SOW	[SOW-42]	Review and acceptance of design documentation provided by the Contractor to the Purchaser SHALL not imply Purchaser acceptance of the			
		design. It remains the sole responsibility of the Contractor to prove the design through the regime of testing set forth in the Contract and it			
		SHALL be the sole responsibility of the Contractor in the event that the system proves deficient in meeting the SRS			
SOW	[SOW-43]	The Contractor SHALL perform a System Design as defined in section 5.4.4: Design Reviews, and the associated documentation SHALL have			
		been approved by the Purchaser.			
SOW	[SOW-44]	The Contractor SHALL complete the site survey process as defined in SECTION 9: Site Surveys and deliver the associated reports for approval			
		by the Purchaser for all the sites that form part of PSA scope (Section 3.10: Provisional System Acceptance (PSA)) and SECTION 9: Site			
		Surveys.			
SOW	[SOW-45]	The Contractor SHALL perform the Training Needs Analysis (TNA) for all the sites that form part of PSA scope (Section 3.10: Provisional			
		System Acceptance (PSA)) for approval by Purchaser, as defined in Section 6.6.2: Training Needs Analysis (TNA) - The Contractor SHALL			
		ensure the Training Materials include how the Transition from one Release to the next release is realised and how to install, configure and			
		maintain the Modified or new Component capability, including COTS components.			
SOW	[SOW-46]	The Contractor SHALL deliver the Training Plan that will cover all the sites that form part of PSA scope (Section 3.10: Provisional System			
		Acceptance (PSA)) for approval by Purchaser, as defined in Section 6.6.3: Training Plan.			
SOW	[SOW-47]	The Contractor SHALL have delivered the System Implementation Plan (SIP) for all the sites that form part of PSA scope (Section 3.10:			
		Provisional System Acceptance (PSA) and Section 7.3: System Implementation Plan (SIP)) for approval by Purchaser.			
SOW	[SOW-48]	In planning the PDR (EDC+3MO) meeting, the Contractor SHALL include Entry Criteria given in Table 5: The PDR Entry Criteria and make them			
		available to the Purchaser at least two (2) weeks prior to the PDR			
SOW	[SOW-49]	During the event the Contractor SHALL collect from the PURCHASER assessment inputs based on Table 6: The PDR Success Criteria and upon			
		conclusion of the PDR (EDC+3MO) the Contractor SHALL produce a final report and make it available to the Purchaser at most (1) week after			
		the PDR			
SOW	[SOW-50]	In planning the CDR meeting, the Contractor SHALL include Entry Criteria given in Table 7: The CDR Entry Criteria and make them available to			
		the Purchaser at least two (2) weeks prior to the CDR (EDC+6MO)			
SOW	[SOW-51]	The Contractor SHALL perform a Critical Design Review as defined in 5.4, and the associated documentation SHALL have been approved by			
		the Purchaser.			
SOW	[SOW-52]	The Contractor SHALL complete the site survey process as defined in SECTION 9 and delivered the associated reports for approval by the			
		Purchaser for all the sites that form part of PSA scope.			
SOW	[SOW-53]	The Contractor SHALL update the Training Needs Analysis (TNA) for all the sites that form part of PSA scope (Section 3.10: Provisional System			
		Acceptance (PSA)) for approval by Purchaser, as defined in Section 6.6.2 Training Needs Analysis (TNA) - The Contractor SHALL ensure the			
		Training Materials include how the Transition from one Release to the next release is realised and how to securely install, configure and			
		maintain the Modified or new Component capability, including COTS components.			
SOW	[SOW-54]	The CDR documentation and achievement of the CDR milestone are subject to the Purchaser approval. Unless otherwise approved by the			
		Purchaser, the Contractor SHALL not proceed with the CDR stage without successful completion of the PDR (EDC+3MO) milestone.			
SOW	[SOW-55]	During the event the Contractor SHALL collect from the PURCHASER assessment inputs based on Table 8: The CDR Success Criteria and upon			
	[]	conclusion of the CDR the Contractor SHALL produce a report and make it available to the Purchaser at most (1) week after the CDR.			
SOW	[SOW-56]	The Contractor SHALL have performed necessary activities and satisfied criteria for meeting FAT (EDC+9MO) milestones as defined in		1	
	[0011 00]	SECTION 8 and the associated documentation SHALL have been approved by the Purchaser.			
SOW	[SOW-57]	The milestone "Acceptance of IEG-C security accreditation package" will be achieved when NSAB approval is granted at EDC+13mo.			
SOW	[SOW-58]	The contractor SHALL deliver all documentation according to SECTION 10, 7 months in advance of the expected "Acceptance of IEG-C			
30 00	[30 10-30]	security accreditation package Milestone" in order to have NSAB approved deliverables before commencing WP 3 / Installation of gateways.			
		security accreation package innestone. In order to have its approved deriverables before commencing WF 57 histaliation of galeways.			
SOW/	[SOW-59]	The Contractor SHALL have performed peressary activities and satisfied criteria for meeting SIT + SAT + LIAT (FDC+17mo) milectones as			
30 00	[30 10-39]				
SOW	[SOW-59]	The Contractor SHALL have performed necessary activities and satisfied criteria for meeting SIT + SAT + UAT (EDC+17mo) milestones as defined in SECTION 8 and the associated documentation SHALL have been approved by the Purchaser.			

SOW	[SOW-60]	The Contractor SHALL comply with the decision of the Purchaser's CAB and only after CAB approval to deploy authorization is granted, the installation of the first site can be initiated based on the Purchaser approved Deployment Plan.		
SOW	[SOW-61]	The Contractor SHALL have handled any change to satisfy the security requirements.		
SOW	[SOW-61]	The Contractor SHALL have delivered the required training (including training for RAs operators) at agreed site(s), according to Training and		
3011	[5010-02]	the training plan approved by Purchaser.		
SOW	[SOW-63]	The Contractor SHALL have completed and have received approval by the SAA of the Security Accreditation Documentation (see SECTION 10),		
3011	[5011 05]	including all the localised versions of documents (see 10.3), for all the (block of) site(s).		
SOW	[SOW-64]	The Contractor SHALL have completed the Site Acceptance Plan and have received the approval by the Purchaser.		
SOW	[SOW-65]	The Contractor SHALL have completed the Site Acceptance Test Cases and have received the approval by the Purchaser.		
SOW	[SOW-66]	The Contractor SHALL have completed the Operational System Acceptance (OSA) Plan and have received the approval by the Purchaser.		
SOW	[SOW-67]	The Contractor SHALL have completed the OSA Test Cases and have received the approval by the Purchaser		
SOW	[SOW-68]	The Contractor SHALL note that system implementation activities in the operational environment SHALL NOT start until the Deployment Authorization milestone is approved by the Purchaser.		
SOW	[SOW-69]	During the event the Contractor SHALL collect from the PURCHASER assessment inputs based on Table 9 The DA Success Criteria and upon		
		conclusion of the DA the Contractor SHALL produce a report and make it available to the Purchaser at most (1) week after the DA.		
SOW	[SOW-70]	The Contractor SHALL install, test and activate all the IEG-C components for the first operational IEG-C (IEG-C-02, see Annex B1, page 163) at		
		SHAPE as described and defined in SECTION 6: Integrated Logistics Support (ILS), SECTION 7: System Implementation and SECTION 8: Test,		
		Verification, Validation (TVV).		
SOW	[SOW-71]	The Contractor SHALL have delivered all functionalities of IEG-C defined within Work Packages Scope (Annex B2)		
SOW	[SOW-72]	The Contractor SHALL have trained all required personnel according to Section 6.6: Training.		
SOW	[SOW-73]	The Contractor SHALL have provided reviewed and approved operational and maintenance documentation as described in Section 6.5		
-		Technical Documentation and Section 15: Deliverables Outlines.		
SOW	[SOW-74]	The Contractor SHALL have satisfied the security requirements (see Section 10: Security).		
SOW	[SOW-75]	The Contractor SHALL have migrated on IEG-C all services required to support the information exchange requirements for the CIS interconnection.		
SOW	[SOW-76]	All performance and availability requirements specified in this SOW (Annex A, SRS) have been met.		
SOW	[SOW-70]	The Contractor SHALL have executed all activities required to have all IEG-C software components (including ITSM tools) on the AFPL		
30 10	[5011-77]	(Approved Fielded Product List).		
SOW	[SOW-78]	The Contractor SHALL have supplied the spare parts and consumables.		
SOW	[SOW-79]	The Contractor SHALL have implemented and tested all Support Services and the ITSM Tools, covering the PSA Site (SHAPE), and obtained the		
		Purchaser's approval.		
SOW	[SOW-80]	The Contractor SHALL have updated Product Baselines (PBL) and SHALL have provided the Operational Baseline (OBL) as described in		
	ļ	SECTION 12: Configuration Management to reflect the actual PSA configuration		
SOW	[SOW-81]	The Contractor SHALL have provided the Configuration Management database (CMDB) in a format that is compatible with the Purchaser		
	-	CMDB tools.		
SOW	[SOW-82]	The Contractor SHALL have performed the Physical Configuration Audit (PCA) and Functional Configuration Audit (FCA), provided the audit		
	[00::: 00]	reports and completed the corrective actions as outlined in the reports.		
SOW	[SOW-83]	The Contractor SHALL have executed all agreed test cases, and all tests SHALL have a status "PASS", as described in 8.5 TVV Events and		
6011/	[60]4(0;1]	results.		
SOW	[SOW-84]	All observations and deficiencies from the Formal Test Phases SHALL be handled following the Defect Management Process and be		
5014/	[SOW-85]	satisfactory resolved by the Contractor before awarding PSA.		
SOW	[3047-85]	In addition to the requirements set below, the Mons site will have to achieve the requirements as set below in 3.12 Site Acceptance and SECTION 10: Security Accreditation.		
SOW	[SOW-86]	During the event the Contractor SHALL collect from the PURCHASER assessment inputs based on Table 10 PSA success criteria and upon	<u> </u>	
30 10	[3010-80]	conclusion of the PSA the Contractor SHALL conduct nom the PORCHASER assessment inputs based on Table 10 PSA success circle and upon conclusion of the PSA the Contractor SHALL produce a report and make it available to the Purchaser at most (1) week after the PSA.		
		conclusion of the Forthe contractor single produce a report and make it available to the Furchaser at most (1) week diter the FSA.		

SOW	[SOW-87]	Between PSA and FSA milestones, the Contractor may propose an activation per site. In such a case, the Contractor SHALL comply with the requirements of this section in order to reach activation for a site.		
SOW	[SOW-88]	All the PSA-related requirements SHALL still be met by the Contractor.		
SOW	[SOW-89]	The Contractor SHALL have implemented the site in accordance with SECTION 6: Integrated Logistics Support (ILS), SECTION 7: System Implementation SECTION 8: Test, Verification, Validation (TVV), SECTION 9: Site Surveys and SECTION 15: Deliverables Outlines SHALL have delivered the associated documentation.		
SOW	[SOW-90]	The Contractor SHALL have installed, tested and activated the IEG-C(s) at the site.		
SOW	[SOW-91]	The Contractor SHALL have migrated on IEG-C all services required to support the information exchange requirements for the CIS interconnection(s).		
SOW	[SOW-92]	All performance and availability requirements specified in this SOW SHALL have been met by the Contractor.		
SOW	[SOW-93]	The Contractor SHALL train all required personnel according to Section 6.6: Training.		
SOW	[SOW-94]	The Contractor SHALL have supplied the spare parts and consumables.		
SOW	[SOW-95]	The Support Services SHALL have been updated as required.		
SOW	[SOW-96]	The Contractor SHALL have executed all agreed test cases, and all tests SHALL have a status "PASS", as described in 8.5 TVV Events and results.		
SOW	[SOW-97]	The Contractor SHALL have provided the Operational Baseline (OBL) as described in SECTION 12: Configuration Management to reflect the actual Site configuration.		
SOW	[SOW-98]	The Contractor SHALL complete and receive approval by the Security Accreditation Authority (SAA) of the Security Accreditation Documentation (see para: 10.3), including all the localised versions of documents, for the site.		
SOW	[SOW-99]	The Contractor SHALL conduct OT&E as defined in Sections SECTION 7 and SECTION 8.		
SOW	[SOW-100]	The Operational Acceptance Criteria (OAC) that apply to this SOW and have been included in Annex A (SRS) have been successfully implemented or achieved.		
SOW	[SOW-101]	The achievement of the OT&E milestone SHALL be subject to the Purchaser acceptance.		
SOW	[SOW-102]	All PSA milestone requirements (see par.3.10) as well as Site Activation milestone requirements (see par.3.12: Site Acceptance) SHALL be met		
		by the Contractor for all the sites to be implemented under this contract.		
SOW	[SOW-103]	The Contractor SHALL execute all implementation activities according to SECTION 3 at all the sites to be implemented under this contract.		
SOW	[SOW-104]	The Contractor SHALL install the most recent version of implemented IEG-C.		
SOW	[SOW-105]	The centralised management and control of the IEG-C SHALL be fully implemented by the Contractor according to the requirements specified in this SOW.		
SOW	[SOW-106]	The Contractor SHALL deliver a complete and updated set of documents (e.g. Functional Baseline, Product baseline, Operational baseline)		
SOW	[SOW-107]	The Contractor SHALL have provided the Configuration Management database (CMDB) in a format that is compatible with the Purchaser CMDB tools.		
SOW	[SOW-108]	The Contractor SHALL activate Support Services at all the FSA Sites.		
SOW	[SOW-109]	The Contractor SHALL have executed all agreed test cases, and all tests SHALL have a status "PASS".		
SOW	[SOW-110]	The Contractor SHALL complete and receive approval by the SAA of the Security Accreditation Documentation (para: 10.3), including all the localised versions of documents (para: 10.2: Security Accreditation Authority (SAA)), for all the FSA sites.		
SOW	[SOW-111]	The Contractor SHALL deliver all deliverables (SECTION 15), and conducted all activities, as specified in this Contract.		
SOW	[SOW-112]	The Contractor SHALL close to the satisfaction of the Purchaser all outstanding issues, failures, and deficiencies.		
SOW	[SOW-113]	During the event the Contractor SHALL collect from the PURCHASER assessment inputs based on and upon conclusion of the FSA the Contractor SHALL produce a report and make it available to the Purchaser at most (1) week after the FSA.		
SOW	[SOW-114]	The Contractor SHALL at all times ensure that:		
SOW	[SOW-115]	The Contractor SHALL acknowledge email receipt and answer email received from NATO project team members (see para: 4.3 Project		
	[Management Organization) within 3 business days.		
SOW	[SOW-116]	The Contractor SHALL use PRINCE2 or an equivalent PM standard for the direction, governance and management activities for the entire project. If an equivalent PM standard is used, the Contractor SHALL prove that it at minimum meets all requirements stated in this section.		

SOW	[SOW-117]	The Contractor SHALL be agile in the approach for the product delivery activities within each release and by doing so SHALL enable:			
SOW	[SOW-118]	The Contractor SHALL define and describe its implementation of the required PM approach so that at minimum it shows a clear and			
		consistent exchange of information between the Project team and minimal duplication of information and project management activities. For	-		
		example:			
SOW	[SOW-119]	Project Master Schedule (PMS; i.e., Gantt chart) SHALL be used for higher level project planning and milestones tracking but should be			
		regularly fed by information from Product Delivery Reviews.			
SOW	[SOW-120]	Project Status Report (PSR) SHALL include inputs about delivery progress, issues and risks taken from Product Delivery Reviews and meeting.			
SOW	[SOW-121]	The Contractor SHALL provide a Project Implementation Plan (PIP), which wil describe how the Contractor will implement the Project.			
SOW	[SOW-122]	[Reserved]			
SOW	[SOW-123]	[Reserved]			
SOW	[SOW-124]	The Contractor SHALL identify all major Contractor organizational units and any Sub-Contractors involved in the implementation of the IEG-C and a description of the portion of the overall effort or deliverable item for which they are responsible.			
SOW	[SOW-125]	The Contractor SHALL establish and maintain a Project Management Office (PMO) to perform and manage all efforts necessary to discharge			
		all his responsibilities under this Contract.			
SOW	[SOW-126]	The Contractor SHALL also provide all necessary manpower and resources to conduct and support the management and administration of			
		operations in order to meet the objectives of the project, including taking all reasonable steps to ensure continuity of personnel assigned to			
		work on this project.			
SOW	[SOW-127]	The Contractor SHALL designate one or more Senior Engineer(s) as Team Managers throughout the performance of the Contract. Team			
		Manager SHALL design, coordinate and lead the process of product delivery within the defined Product Delivery Team(s) making sure product	t		
		requirements are met within given timelines and quality criteria. Team manager organizes and facilitates all Product Delivery Meetings			
		(PDM). Team manager SHALL report and take direction from the Contractor Project Manager. See SECTION 13 for labour category			
SOW	[SOW-128]	requirements. The Contractor SHALL designate a Field Engineer to serve as the Service Direction Manager throughout the performance of the Contract. See			
30 W	[30 10-128]	SECTION 13 for labour category requirements.			
SOW	[SOW-129]	The Contractor SHALL designate an Engineer to serve as QAM throughout the performance of the Contract until project completion. See			
		SECTION 13 for labour category requirements.			
SOW	[SOW-130]	The Contractor SHALL designate a Senior Engineer to serve as ILS, Change and Configuration Manager throughout the performance of the			
		Contract, including the Operation and Maintenance (O&M) Phase. See SECTION 13 for labour category requirements.			
SOW	[SOW-131]	In order to facilitate communication and effectiveness, the Contractor SHALL locate the Core Team (i.e., Project Manager and Technical Lead)			
		close to the Purchaser premises.			
SOW	[SOW-132]	The Contractor's team SHALL be available during EU time zone working hours (8:30 - 17:30 Monday-Thursday, and 8:30 - 16:30 on Fridays).			
SOW	[SOW-133]	The Contractor SHALL designate a Project Manager (Contractor PM), who will direct and co-ordinate the activities of the Contractor's project			
		team. The Project Manager SHALL be the Contractor's primary contact for the Purchaser Project Manager and SHALL conduct all major			
		project design, test, and review meetings. See SECTION 13 for labour category requirements.			
SOW	[SOW-134]	The Contractor SHALL designate a Senior System Engineer as the Technical Lead throughout the performance of the Contract. The Technical			
		Lead SHALL lead the analysis, design, integration, transition into operations and follow-on enhancement efforts of the Contractor. See			
		SECTION 13 for labour category requirements.			
SOW	[SOW-135]	The Contractor SHALL designate a Senior Test Engineer to serve as the Test Director for all test activities conducted under this Contract. See			
5014	[[[0]]]	SECTION 13 for labour category requirements.			
SOW	[SOW-136]	The Contractor SHALL establish and maintain a Project Overview			
SOW	[SOW-137] [SOW-138]	The Contractor SHALL establish and maintain a PBS, which SHALL: The Contractor SHALL establish and maintain a PFD, which SHALL sequence all products in their logical order of creation.			1
30.00		The Contractor SHALL establish and maintain a PPD, which shall describe how the Contractor will implement the totality of the project as		+	
SOW	[SOW-139]				

SOW	[SOW-140]	The Contractor's PMP SHALL cover all aspects of the project implementation including its management structure and project management processes, personnel assignments, external relationships necessary to provide the capability as required by this Contract.		
SOW	[SOW-141]	The Contractor's PMP SHALL be sufficiently detailed to ensure that the Purchaser is able to assess the Contractor plans with insight into the Contractor's plans, capabilities, and ability to satisfactorily implement the entire project in conformance with the requirements as specified in this SOW.		
SOW	[SOW-142]	The Contractor's PMP SHALL follow the outline recommended in this SOW (see SECTION 15.9).		
SOW	[SOW-143]	The Contractor's PMP SHALL be provided to the Purchaser for acceptance.		
SOW	[SOW-144]	Contractor SHALL develop the Contractor WBS to the level needed for adequate management and control of the contractual effort. A single WBS should be used for planning, managing, and reporting.		
SOW	[SOW-145]	The Contractor SHALL establish and maintain a PMS which SHALL:		
SOW	[SOW-146]	The Contractor SHALL provide the PMS to the Purchaser for acceptance.		
SOW	[SOW-147]	The Contractor SHALL use the PBS, the PFD and the PMS as the primary framework for Contract planning and reporting to the Purchaser.		
SOW	[SOW-148]	The Contractor SHALL establish and maintain a RMP which shall describe how the Contractor will implement the Risk Management process, with at least the following details:		
SOW	[SOW-149]	The Contractor SHALL establish and maintain a Risk Management process for the project, described in the RMP, and compliant with [NCIA PDED 06.00.03, 2015] and NATO Risk Management Policy.		
SOW	[SOW-150]	The Contractor's Risk Management process SHALL at minimum enable and define identification of all types of risks, evaluation and prioritization of each risk, definition of proposed response strategy, owner and actions and suggested monitor and control mechanisms.		
SOW	[SOW-151]	The Contractor SHALL document and maintain status of all risks in the Risk Log (see 15.2) where he shall record and track all project risks regardless of their status.		
SOW	[SOW-152]	The Contractor SHALL update Risk Log at minimum on a monthly basis as an input for the Project Status Report (PSR).		
SOW	[SOW-153]	The Contractor SHALL add to the Risk Log additional risks identified by the Purchaser.		
SOW	[SOW-154]	Upon Purchaser request, the Contractor SHALL deliver the Risk Log to the Purchaser, throughout the duration of the Contract.		
SOW	[SOW-155]	The Contractor SHALL establish and maintain a process for identifying, tracking, reviewing, reporting, and resolving all project issues.		
SOW	[SOW-156]	The Contractor SHALL describe the Issue Management Process in the CMP (see section 18.3).		
SOW	[SOW-157]	The Contractor SHALL develop and maintain an Issue Log (see Section 21.3) where he SHALL record and track all project issues regardless of their status.		
SOW	[SOW-158]	The Contractor SHALL include the Issue Log in the Configuration Management process and keep it under configuration control and in the Configuration Management Database (CMDB).		
SOW	[SOW-159]	The Contractor SHALL update Issue Log at minimum on a monthly basis as an input for the PSR.		
SOW	[SOW-160]	The Contractor SHALL add to the Issue Log additional issues identified by the Purchaser.		
SOW	[SOW-161]	Upon Purchaser request, the Contractor SHALL deliver the Issue Log to the Purchaser, throughout the duration of the Contract.		
SOW	[SOW-162]	The Contractor SHALL implement a QA and QC program as described in SECTION 17 SECTION 12 of this SOW.		
SOW	[SOW-163]	The Contractor SHALL deliver and maintain a Quality Assurance Plan as detailed in SECTION 11 of this SOW.		
SOW	[SOW-164]	The Contractor SHALL fully support IV&V activities and in particular:		
SOW	[SOW-165]	The Contractor SHALL provide, no later than the third working day of each month, a PSR. The Contractor's PSR SHALL be a monthly document.		
SOW	[SOW-166]	The Contractor's PSR SHALL at minimum summarise completed, ongoing, and upcoming activities, as well as attached updated PMS, Risk and Issue Log.		
SOW	[SOW-167]	The Contractor SHALL issue answers to Purchaser provided comments within one week after their receipt. No comment received within that timeframe means that the Contractor agrees to the comments issued by the Purchaser.		
SOW	[SOW-168]	The Contractor SHALL take meeting minutes, submit them in draft version to the Purchaser for approval within 2 working days of the meeting. The minutes SHALL be submitted to an accelerated review cycle at Purchaser's discretion.		

6011/	[0014 4 00]		1	
SOW	[SOW-169]	The participants and mainly the Contractor's representatives SHALL NOT regard these minutes as a mechanism to change the terms,		
		conditions or specifications of the Contract nor as a vehicle to alter the design or configuration of equipment or systems. Any such changes		
6011/	[0014/470]	SHALL only be made by authorised mechanisms as set forth in the Contract.		
SOW	[SOW-170]	The Contractor SHALL provide any documentation (even in draft format), that may be useful to the Purchaser in preparing for meetings and		
6011/	[[[]]]	ensuring efficient discussions during the meetings no later than 2 working days before the meeting.		
SOW	[SOW-171]	The Contractor SHALL coordinate and hold PRM with the Purchaser at major milestones (listed in 3.1.2) throughout the Contract period of		
	[00)1/ 470]	performance, as follows (-/+ 2 weeks around the date provided below):		
SOW	[SOW-172]	The Contractor SHALL provide an updated PSR, not older than 5 working days, as a base document for the PRM as sent to all PRM		
	[[[]]]	participants at least 2 business days in advance.		
SOW	[SOW-173]	At each PRM, the Contractor SHALL provide the status of all on-going tasks, the status of the Contract deliverables, identify any changes to		
		the PMP, PMS, SIP, ILS Plan (ILSP), QAP, Issue Log, Change Requests document, Off-specifications document, baselines and Risk Log, and		
	[[[]]]	identify any problems.		
SOW	[SOW-174]	The Contractor SHALL address and discuss key project issues, risks and events with the Purchaser Project Manager promptly, and SHALL not		
	[00)4/4751	postpone it until the next PRM.		
SOW	[SOW-175]	The Contractor will provide minutes of the meeting. The Minutes shall include:		
SOW	[SOW-176]	The Contractor SHALL organize PDMs.		
SOW	[SOW-177]	The Contractor's PDMs SHALL at minimum cover the following activities:	 	
SOW	[SOW-178]	All PDMs SHALL be organized and run by Team Manager or Tech Lead appointed by the Contractor.		
SOW	[SOW-179]	The Contractor SHALL record all outputs from all PDMs in a product delivery toolset chosen, implemented and hosted by the Contractor.		
SOW	[SOW-180]	The Contractor SHALL ensure Purchasers access to the abovementioned product delivery toolset.		
SOW	[SOW-181]	The Contractor SHALL report key outputs from PDMs such as delivery progress information (e.g., product backlog status, key test results,		
		burn down / burnup charts) as well as key changes, issues and risks to the Contractor Project Manager who SHALL integrate that information		
		in the PSR.		
SOW	[SOW-182]	The Contractor's Project Manager SHALL provide inputs to and attend IPMT meetings as requested by the Purchaser Project Manager.		
SOW	[SOW-183]	For daily/regular contact the Contractor SHALL designate Security SMEs as points of contact for security accreditation and security-related		
		issues		
SOW	[SOW-184]	The Contractor SHALL maintain a NATO RESTRICTED Project Portal (provided by the Purchaser) on which all relevant (classified up to and		
		including NATO RESTRICTED) CO-14314-IEG-C project documentation and datasets shall be maintained. This Project Portal is created on the		
		NATO RESTRICTED network at NCIA by the Purchaser, and will be accessed by the Contractor using the Purchaser provided REACH laptop(s)		
		(See Annex B of the Contract Special Provisions) or any other approved device/mechanism for the exchange of NATO RESTRICTED		
		information. Accreditation related documentation SHALL also be stored and referenced thereafter, in the NCIA Security Accreditation Portal.		
SOW	[SOW-185]	The Contractor SHALL maintain on this website all unclassified documents, as soon as they are submitted in draft version to the Purchaser.		
		This includes all project deliverables, presentation materials from all meetings, as well as the Contract SOW and SRS, and all applicable		
		documents. More generally, the website SHALL include any document as deemed necessary by the Purchaser.		
SOW	[SOW-186]	The Contractor SHALL identify all relevant classified documents on the Project Website, by title, unless a title itself is classified and SHALL		
		state from where the classified document can be obtained.		
SOW	[SOW-187]	The Contractor SHALL submit all documentation in electronic format to the Purchaser for review and comments as applicable.	ļ	+
SOW	[SOW-188]	The Contractor SHALL not provide any Contractual documentation in a partial or gradual manner.	<u> </u>	
SOW	[SOW-189]	The Contractor SHALL ensure that any documentation delivered to the Purchaser has been properly reviewed according to Contractor quality		
		management process, utilizing the Project Portal and other shared resources, and minimizing use of personal storage and email, to the extent		
		possible.		
SOW	[SOW-190]	The Contractor SHALL provide a first version of each deliverable for Purchaser review. The first version SHALL be substantially complete and		
		correct.	ļ	
SOW	[SOW-191]	The Contractor SHALL not rely on the Purchaser review to fill in deficiencies or obtain missing Purchaser information.		
SOW	[SOW-192]	The Contractor SHALL resubmit the document as a revised version addressing the Purchaser's comments within 2 (two) weeks after receipt.		

SOW	[SOW-193]	The Contractor SHALL provide an updated version of the document within two weeks of receipt of the Purchaser's comments on the revised		
	[]	version.		
SOW	[SOW-194]	If the document is included as part of the ABL or PBL, the Contractor SHALL remain responsible for updating the document as required in the		
		course of the project (to correct errors, inconsistencies, omissions, etc. and to reflect changes in the system design, system implementation,		
		support arrangements) as part of its Configuration Management tasks.		
SOW	[SOW-195]	The Contractor SHALL be able to adapt the IEG-C to accommodate this additional information.		
SOW	[SOW-196]	The Contractor SHALL incorporate in his activities the integration, performance, and schedule considerations related to the co-ordination of		
		the IEG-C with the other Purchaser systems to be interfaced with it throughout the duration of the project.		
SOW	[SOW-197]	The Contractor SHALL identify any documents, meeting minutes, or other information from these projects required to maintain an effective		
		co-ordination process.		
SOW	[SOW-198]	The Contractor SHALL include into Project Communication Plan (part of PMP) activities clearly identifying his proactive approach with regards		
		to the coordination with other related NATO projects.		
SOW	[SOW-199]	As a Project-level communication activity, the Contractor SHALL provide an IEG-C Information Sheet of maximum 2 pages providing an		
		overview of the IEG-C system, its functions, external interfaces and major components, and its projected installation schedule.		
SOW	[SOW-200]	The Contractor SHALL be responsible for the overall design, integration, obtaining security accreditation and system engineering of the IEG-C		
		throughout the Contract period of performance.		
SOW	[SOW-201]	The Contractor SHALL develop the IEG-C System Design Specification (SDS) based on an analysis of the Purchaser's requirements.		
SOW	[SOW-202]	The Contractor SHALL integrate all necessary components to establish the IEG-C Product Baseline, and plan and execute a series of tests to		
		confirm that this baseline meets its functional and non-functional requirements (portability, maintainability, security, reliability, usability,		
		compatibility, performance, functional).		
SOW	[SOW-203]	The Contractor SHALL perform the activities described in this section considering that the IEG-C will integrate with a wide variety of NATO		
		activities and systems (e.g., Core Services, Functional Area Services (FAS)).		
SOW	[SOW-204]	The Contractor SHALL be responsible for integration of the IEG-C System. This means both the integration of the various products that		
		constitute the IEG-C System and the integration of the IEG-C System with other NATO systems.		
SOW	[SOW-205]	The Contractor SHALL make use of NCIA testbed (Annex B1) to perform the integration or more generally to conduct tests, and in particular		
		the following Milestone events:		
SOW	[SOW-206]	The Contractor SHALL deliver and install the IEG-C Integration Test System with all its components as defined in ANNEX B, in compliance with		
		the processes described in SECTION 13 as a virtualized system and SHALL integrate it within the contractor provided Development and		
		Integration Test Environment.		
SOW	[SOW-207]	The Contractor SHALL provide the operating systems and any other COTS software needed by the IEG-C Integration Test System with the		
		necessary Original Equipment Manufacturer's manuals and licenses unless agreed to be provided by the Purchaser.		
SOW	[SOW-208]	The Contractor SHALL install the COTS software on the IEG-C Integration Test System and apply the necessary configuration.		
SOW	[SOW-209]	The Contractor SHALL implement a procedure to ensure that the IEG-C Integration Test System is representative of the actual operational		
		system, in particular in terms of design and configuration, and software versions.		
SOW	[SOW-210]	The Contractor SHALL establish and update the IEG-C Integration Test System on the Purchaser prepared Development and Integration Test		
		Environment prior to the relevant events.		
SOW	[SOW-211]	The Contractor SHALL update the IEG-C Integration Test System with each new release until FSA.		
SOW	[SOW-212]	The Contractor SHALL demonstrate how the Purchaser will have to make use of the IEG-C Integration Test System to adapt any existing		
		software, scripts, reports etc. to changing requirements (this encompasses both development and testing activities).		
SOW	[SOW-213]	The Contractor SHALL deliver hardware components for elements of the IEG-C Reference System that cannot be virtualized.		
SOW	[SOW-214]	The Contractor SHALL deliver and install the IEG-C Reference System with all its components as defined in ANNEX B, in compliance with the		
		processes described in SECTION 13, and SHALL integrate it within the Contractor provided NATO Enterprise Reference System.		
SOW	[SOW-215]	The Contractor SHALL provide the operating systems and any other COTS software needed by the IEG-C Reference System with the necessary		
		Original Equipment Manufacturer's manuals and licenses unless agreed to be provided by the Purchaser.		
SOW	[SOW-216]	The Contractor SHALL install the COTS software on the IEG-C Reference System and apply the necessary configuration.		
SOW	[SOW-217]	The Contractor SHALL implement a procedure to ensure that the IEG-C Reference System is representative of the actual operational system,		
		in particular in terms of design and configuration, performance, security settings, and software versions.		

SOW	[SOW-218]	The Contractor SHALL demonstrate how the Purchaser will have to make use of the IEG-C Reference System to adapt any existing software,		
3011	[0011 220]	scripts, reports etc. to changing requirements (this encompasses both development and testing activities).		
SOW	[SOW-219]	The Contractor SHALL establish and update the IEG-C Reference System on the Purchaser prepared Development and Integration Test		
3011	[5011 215]	Environment prior to the relevant events.		
SOW	[SOW-220]	The Contractor SHALL update the IEG-C Reference System with each new release until FSA.		
SOW	[SOW-221]	The Contractor SHALL deliver and activate the IEG-C Reference System. The Contractor SHALL deliver all documents as required in this section		
		for the Reference System (e.g., SIP, accreditation documents, etc.).		
SOW	[SOW-222]	The Contractor SHALL conduct a workshop (at a Purchaser-provided facility) to orient the IEG-C Platform Administrators and other		
		stakeholders (Contractor proposes Purchaser decision) on the overall system design and capabilities. As part of this workshop, the Contractor		
		SHALL:		
SOW	[SOW-223]	The Contractor SHALL propose the event date minimum 2 months in advance to allow the coordination time with various stakeholders. The		
		Contractor SHALL provide the proposed content for the workshop including schedule, coverage, content, presentation and the information		
		for Purchaser approval minimum 4 weeks prior to the event.		
SOW	[SOW-224]	The Contractor SHALL review the IEG-C SRS and all applicable documents, meet and communicate with NATO SMEs as necessary, and present		
6014	[0014 005]	its findings in terms of proposed changes to the SRS based on system cost, schedule, or performance impacts.		
SOW	[SOW-225]	The Contractor SHALL also identify any inconsistencies within the requirements. Any inconsistencies not identified by the requirements		
6014	[5014/226]	review will not be accepted later as the basis for a change with cost impact.		
SOW	[SOW-226]	The Contractor SHALL host and conduct a System Requirements Review (SRR at EDC+2MO) to present and discuss its findings and proposed changes to the requirement baseline for the design and integration of the IEG-C project. The purpose of this review is to agree upon the		
		requirement baseline for the design and integration of the IEG-C system.		
SOW	[SOW-227]	The contractor SHALL produce and provide a set of minutes that accurately reflect the discussions taken during the SSR meeting and provide		
3011	[5011 227]	them to the purchaser within 1 week of the meeting.		
SOW	[SOW-228]	Upon completion of the SRR, the Contractor SHALL identify any proposed changes to System Requirements Specification in the form of one		
		or more Change Requests (i.e. ECPs). These Change Requests SHALL be addressed according to the processes implemented by the Contractor		
		to meet the requirements of 12.6 and of 15.5 Change Request.		
SOW	[SOW-229]	The Contractor SHALL use the updated FBL as the basis for the IEG-C system design and subsequent activities.		
SOW	[SOW-230]	The Contractor SHALL review the Purchaser-provided provided IEG-C Target Architecture [NCIA TR/2016/NSE010871/01, 2017].		
SOW	[SOW-231]	The Contractor SHALL consider this Target Architecture as a document for information which should be helpful to conduct its design		
		activities. Therefore, the Contractor SHALL NOT consider the Target Architecture as a binding document.		
SOW	[SOW-232]	The Contractor SHALL conduct the necessary Design Activities and develop its own complete design of the IEG-C at the Preliminary and		
		Critical levels, including all interfaces to other systems to meet the SRS.		
SOW	[SOW-233]	The Contractor SHALL keep the system design documentation package (including security accreditation documentation) up to date		
		throughout project execution, in particular as a result from the site surveys and/or in order to obtain the security accreditation.		
SOW	[SOW-234]	The Contractor's IEG-C System Design SHALL cover all sites identified for this project.		
SOW	[SOW-235]	The Contractor's IEG-C architecture SHALL be designed so that it can be reused for other security classification levels (in any case, the system		
6014	[5014/226]	will be installed and operated at System High/NS mode of operation).		
SOW	[SOW-236]	The Contractor's IEG-C architecture SHALL be designed to be modular design, allowing for future extension and enhancements.		
SOW SOW	[SOW-237] [SOW-238]	The Contractor's IEG-C architecture SHALL be designed so that it can be reused in the deployed environment. The Contractor SHALL agree coding syntax(es) with the Purchaser during the Design Stage.	┝───╂	
SOW	[SOW-238] [SOW-239]	The IEG-C Contractor SHALL agree cooling syntax(es) with the Purchaser during the Design stage. The IEG-C Contractor SHALL ensure that the design is compliant with and covers the System Operations Processes.	┝───╂	
SOW	[SOW-239]	The Contractor SHALL establish, deliver and maintain the IEG-C System Design Documentation Package, comprising of:	├	
SOW	[SOW-240] [SOW-241]	The duration of the review cycle for the IEG-C System Design Documentation Package SHALL be 4 (four) weeks.	├ ─── }	
SOW	[SOW-241]	The Contractor SHALL prove the design through the regime of testing set forth in the Contract and the Contractor SHALL be responsible in the	<u> </u>	
50 **	[3011 242]	event that the system proves deficient in meeting the Contractual requirements.		
SOW	[SOW-243]	As part of the Configuration Management activities, and like any other management product or specialist product, the Contractor SHALL	├ ─── }	
	[update the System Design Documentation Package to reflect changes, at least at each of the following major milestones: a new design		
		מטמנכ נווב שאוכווו שבאצוו שטנעווובוונמנוטוו דמנגמצב נט ובוובנו נוומווצבא, מנ ובמא מו במנוו טו נווב וטווטשווצ וומוטו וווובאנטוובא. מ וובש עבאצוו		

SOW	[SOW-244]	The Contractor SHALL ensure that in order to maintain clear consistency throughout all documents in the System Design Documentation		
3077	[3010 244]	Package, any update of any of the documents comprised in the System Design Documentation Package SHALL result in re-delivery of a new		
		version of the complete System Design Documentation Package.		
SOW	[SOW-245]	The Contractor's SDS SHALL describe the IEG-C System to a level of detail that is sufficient for the Purchaser to be able to understand how the		
5011	[5011 245]	requirements in the SRS and the security requirements (see ANNEX A) are implemented.		
SOW	[SOW-246]	In particular, the Contractor's IEG-C SDS SHALL address the IEG-C Operational Requirements (see SRS).		
SOW	[SOW-240]	The Contractor's IEG-C SDS SHALL be developed as per the detailed contents indicated in section 21.6.		
SOW	[SOW-247]	The Contractor SHALL document, as specific annexes to the ICD:		
SOW	[SOW-248]	Where work was conducted by the Contractor under this Contract to document the design of any system to be interfaced to the IEG-C		
3070	[5010-249]	project, the results of that work SHALL be included in the relevant annex of the ICD.		
SOW	[SOW-250]	The Contractor SHALL develop the ICD in accordance with the template provided by the Purchaser.	 	
SOW	[SOW-250]			
SOW	[3010-251]	The Contractor SHALL ensure that the Security Accreditation Documentation Package comprises all documentation mentioned in Section 10.3.		
SOW	[SOW-252]	The Contractor SHALL develop and maintain a RTM that establishes a complete cross-reference between on the one hand the requirements		
SOW	[50W-252]			
		stated in the SRS, System Security Requirements Statement (SSRS), and on the other hand the detailed contents of the SDS in terms of SDS		
5011/	[[[]]]	statements and lowest-level Cls.		
SOW	[SOW-253]	The Disaster Recovery Plan & Procedures and the Backup Plan & Procedures prepared by the Contractor SHALL address the best practices		
6014	[6014/254]	developed by the vendors of the system components, including security best practices.		
SOW	[SOW-254]	The Disaster Recovery Plan & Procedures prepared by the Contractor SHALL address all possible scenarios and corresponding actions,		
6011	[0014/255]	including security.		
SOW	[SOW-255]	The Disaster Recovery Plan & Procedures prepared by the Contractor SHALL align with the site-specific Disaster Recovery Plan & Procedures,		
	[0014 05 0]	including those defined in the ITM Joining Instructions.	 	
SOW	[SOW-256]	The Backup Plan & Procedures prepared by the Contractor SHALL align with the site-specific Backup Plan & Procedures, including those		
	[defined in the ITM Joining Instructions.		
SOW	[SOW-257]	As a minimum, the Disaster Recovery Plan and Procedures prepared by the Contractor SHALL address the following scenarios:	 	
SOW	[SOW-258]	The Disaster Recovery Plans & Procedures prepared by the Contractor SHALL clearly distinguish between service restoration and data		
	[restoration, and SHALL include a disaster recovery kit.	 	
SOW	[SOW-259]	The Contractor SHALL deliver the disaster recovery kit which SHALL contain distribution media for all software (including versions,		
		upgrades/updates, patches and hot-fixes) to restore an IEG-C Element from "bare metal", in accordance with site-specific Disaster Recovery		
		plans.	 	
SOW	[SOW-260]	The Contractor SHALL deliver the disaster recovery kit that includes a full, customized, installation plan that covers all steps (including		
		Operation System (OS) installation) to build and configure each of the IEG-C components.	 	
SOW	[SOW-261]	The Contractor SHALL ensure that Volume Shadow copy service SHALL be used to optimize the backup/recovery process where appropriate.		
SOW	[SOW-262]	The Contractor SHALL ensure that disaster recovery and back-up procedures is included in the Technical Manuals and SHALL be a dedicated		1
		section of it.		
SOW	[SOW-263]	The Contractor SHALL ensure that disaster recovery Kit is analysed in terms of ILS resources and all the necessary resources and support		
	[]	needed for disaster recovery is produced as required in SECTION 6 : Integrated Logistics Support (ILS) of this document.		
SOW	[SOW-264]	The Contractor SHALL conduct Design Reviews, a Preliminary Design Review (PDR at EDC+3MO) and a Critical Design Review (CDR at		
	[0011 201]	EDC+6MO), to present the IEG-C Design Documentation Package. The Contractor SHALL include the following areas in the Design Review:		
SOW	[SOW-265]	The Contractor SHALL provide a Design Review Report for every Design review cycle.		
SOW	[SOW-266]	The Contractor SHALL update the Design Documentation Package as per the result of the Design Review.		
SOW	[SOW-267]	The Contractor activities and milestones related to ILS SHALL be identified and included in the PMS of the PMP.		
SOW	[SOW-268]	The Contractor SHALL use the [ALP 10-2016] and [AIA/ASD SX000i, 2016] specification as guidance when establishing and conducting the ILS		
		Process (i.e. Integrated Logistics Support – ILS Process), in accordance with the requirements of the contract.	 	
SOW	[SOW-269]	The Contractor SHALL use [ADMP-1], [ADMP-2], [MIL-HDBK-338B], [MIL-HDBK-470A], [MIL-STD-1388-1A], [MIL-STD-1388-2B] and [ASD		
		S3000L] as guidance when establishing and conducting the Logistic Support Analysis (LSA) programme, including the RAMT programme, in		
		accordance with the requirements of the Contract.		

SOW	[SOW-270]	The Contractor SHALL provide and maintain an ILSP, tailored to the Project Program phases.		I	
SOW	[SOW-270]	The Contractor SHALL develop the ILSP in accordance with the requirements described in this section and cover all areas.			
SOW	[SOW-271]				
SOW		The Contractor SHALL detail in the ILSP how ILS will be designed, managed, procured and provided throughout the system lifetime.			
SOW	[SOW-273]	The Contractor SHALL provide an updated version of the ILSP to the Purchaser for each milestone for Purchaser acceptance.			
	[SOW-274]	The Contractor SHALL cover the following sections at minimum including the processes to perform the related activities in ILSP:			
SOW	[SOW-275]	The Contractor SHALL maintain and update the ILSP as required to reflect changes in the Project Baselines, in the SOW, or in support arrangements for any IEG-C System Cls.			
SOW	[SOW-276]	The Contractor SHALL provide an In Service Support Plan (ISSP) as an annex to the ILSP and SHALL cover the following topics at minimum with			
		practical instructions:			
SOW	[SOW-277]	The Contractor SHALL provide the latest ISSP as part of PSA (EDC+20mo) and FSA (EDC+27mo) milestone achievement.			
SOW	[SOW-278]	As an Annex of the ILSP and in accordance with SOW ANNEX F, the Contractor SHALL develop and maintain the IEG-C System Maintenance			
		and Support Concept that defines the maintenance and support environment, constraints, locations, procedures, artefacts, organisation and			
		personnel skills to maintain the Delivered baselines of the IEG-C Capability.			
SOW	[SOW-279]	The Contractor SHALL design/deliver the system/elements and the Operation/Support/Maintenance documentation, training, instructions,			
		and resources (skills, tools/test equipment) in order to allow the Purchaser to fully operate the system, to perform Level 1, Level 2 and Level			
		3 Maintenance and Support from the Provisional Site Acceptance (PSA).			
SOW	[SOW-280]	Starting from PSA (EDC+20mo) and until FSA (EDC+27mo) with all the sites are completed; the Contractor SHALL be responsible for the Level			
		2, Level 3 and Level 4 maintenance and support activities in each activated site within the scope of the Initial Operational Support.			
SOW	[SOW-281]	Starting from FSA and until the end of warranty period, all maintenance activities beyond Purchaser capabilities/skills (as per Maintenance			
	[]	Concept and Contractor delivered training and documentation) required to restore the System from a critical failure SHALL be carried on by			
		the Contractor by dedicated on-site interventions and/or off-site resolutions.			
SOW	[SOW-282]	The Contractor SHALL ensure the Maintenance and Support Concept refers to the functional and non-functional Requirements of the IEG-C			
		System.			
SOW	[SOW-283]	The Contractor SHALL ensure the Maintenance and Support Concept defines the Maintenance and Support tasks at any level of support and			
		at any level of maintenance.			
SOW	[SOW-284]	The Contractor SHALL ensure the Maintenance and Support Concept defines the Delivered Baselines maintenance and supply flow amongst			
		the various NATO locations, organisations, groups, and people.			
SOW	[SOW-285]	The Contractor SHALL ensure the Maintenance and Support Concept defines and describes the Maintenance and Support process interfaces			
		to all other processes.			
SOW	[SOW-286]	The Contractor SHALL define the 2nd and 3rd Level Support process interfaces to the other processes, including the existing NCIA Service			
		Desk (1st Level of Support).			
SOW	[SOW-287]	The Contractor SHALL ensure the Support process interface definition includes the input and output information, its structure, the			
		communication path (i.e., Points of Contact (POC)), the time constraints for sending and receiving information, and quality criteria to			
		evaluate the integrity of the interface. This SHALL include the related ITIL Processes to be tailored and detailed for the purposes of IEG-C			
		System Support Concept.			
SOW	[SOW-288]	At each Support and Maintenance Level, the Contractor SHALL ensure the Support Concept describes the support environment, constraints,			
		locations, procedures, artefacts, organisation and personnel.			
SOW	[SOW-289]	The Contractor SHALL ensure the procedural description includes objective(s), triggering event(s), input(s), output(s), task(s), roles and			
		responsibilities (Responsible, Accountable, Consulted and Informed (RACI) format), constraints, exceptional case(s), and tool(s) support.			
SOW	[SOW-290]	The Contractor SHALL ensure the IEG-C System ILSP is based on the established Support Concept, approved by the Purchaser before the CDR			
		(EDC+6MO) milestone.			
SOW	[SOW-291]	The Contractor SHALL develop its RAM Programme and perform the analysis based on the RAM metrics and requirements outlined in the	1		
-		SRS.			
SOW	[SOW-292]	The Contractor SHALL ensure the design of the system includes sufficient redundancy and other Reliability, Maintainability, Availability and			
		Testability measures to ensure the RAM requirements in this Contract are achieved and attained at an optimal Total Cost of Ownership (TCO),			
		minimising preventive maintenance, manpower requirement and usage of special-to-type tools and test equipment.			
1			1		

SOW	[SOW-293]	Such measures taken to ensure fulfilment of RAM requirements and optimisation of TCO SHALL be documented in the Support Case.	
SOW	[SOW-294]	The RAM analysis SHALL clearly capture and display the RAM characteristics of each main component, aggregated up to the level of sub- system, and subsequently the entire system. System breakdown in line with the configuration item structure SHALL be used as reference to	
	[0014 005]	perform the analysis.	
SOW	[SOW-295]	The RAM SHALL be used to calculate and predict intrinsic availability and operational availability, as defined in SRS, for each type of	
SOW	[SOW-296]	subsystem, each type of node and each type of end-to-end connection. The RAM analysis SHALL include the reliability prediction based on the proposed design solution and created RBDs, as well as the reliability	
30 W	[3010-290]	allocation model to include to trigger the design changes	
SOW	[SOW-297]	The RAM analysis SHALL include Failure Modes, Effects and Criticality Analysis (FMECA) in accordance with MIL-STD-1629A.	
SOW	[SOW-298]	The Contractor SHALL ensure that the first issue RAM analysis is performed and delivered before PDR (EDC+3MO), updated before CDR and	
30 10	[5011 250]	finally accepted at CDR (EDC+6MO), to include all relevant data to demonstrate compliance with the SRS and SOW requirements. Such data	
		SHALL be documented in the Support Case as outlined below.	
SOW	[SOW-299]	The Contractor SHALL conduct a Logistic Support Analysis (LSA) Process, tailored to support the specific scope of the System operation	
	[0011 200]	activities.	
SOW	[SOW-300]	The Contractor's LSA analysis SHALL include, as a minimum:	
SOW	[SOW-301]	The Contractor's analysis SHALL contain also the list of procedures needed to configure the capability for mission and/or exercise	
		environment.	
SOW	[SOW-302]	The Contractor SHALL ensure that Operation tasks are identified through analysis of the functional and non-functional requirements of the	
		new system taking into account mission scenarios and conditions under which the system will be operated.	
SOW	[SOW-303]	The Contractor SHALL ensure the analysis examines each system function allocated to personnel and determines what operator tasks are	
		involved in the performance of each system function.	
SOW	[SOW-304]	The Contractor SHALL ensure that maintenance tasks are identified using the RAM data and results.	
SOW	[SOW-305]	The Contractor SHALL ensure the SMC tasks are identified through analysis of all functions related to customer support and SMC.	
SOW	[SOW-306]	For each task in Task Analysis, the Contractor SHALL determine the properties and physical resources required to execute the task. For that	
		purpose, each task SHALL be analysed to identify and capture:	
SOW	[SOW-307]	For each task, the Contractor SHALL perform a cost calculation based on the properties and physical resource requirements of each task.	
SOW	[SOW-308]	The cost calculation SHALL provide an estimated annual cost for each task.	
SOW	[SOW-309]	The Contractor SHALL ensure the data and results of the Task Analysis are used as input to the development of technical publication (all	
		manuals at any level of maintenance) and the development of training material.	
SOW	[SOW-310]	The Contractor SHALL document the LSA and RAM process, resourcing and organization, inputs, outputs, methodology, and timelines within ILSP.	
SOW	[SOW-311]	The Contractor SHALL develop and maintain the necessary Support Cases in which all LSA and RAM activities SHALL be documented. The Support Case SHALL include:	
SOW	[SOW-312]	The Contractor's Support Case SHALL form a body of evidence, providing sufficient credibility that all LSA and RAM requirements outlined in SOW 6.4.1 and 6.4.2, and SRS have been met and providing credibility to the data used and the results achieved in all calculations and models.	
SOW	[SOW-313]	The Contractor's Support Case SHALL provide rationale and justifications for all data and formulas used in any of the calculations and models.	
SOW	[SOW-314]	The Contractor SHALL ensure that the first issue of Support Case is delivered before PDR (EDC+3MO) encompassing all the design details up to the PDR milestone, updated before CDR and accepted at CDR (EDC+6MO), to include all relevant data to demonstrate compliance with the SRS and SOW requirements.	
SOW	[SOW-315]	The Contractor SHALL provide all the technical documentation for IEG-C System.	
SOW	[SOW-315]	The Contractor SHALL provide all the Technical documentation of hEG-C system.	
30 **	[3011 310]		
SOW	[SOW-317]	The Contractor SHALL ensure the information contained in each technical documentation is coherent with the operational configuration deployed, i.e., OBL.	
SOW	[SOW-318]	Technical documentation SHALL consists (as a minimum) of:	

SOW	[SOW-319]	The Contractor SHALL ensure the all activities, milestones and actors associated with the development of technical documentation are		
3010	[3010-319]	described in the ILSP.		
SOW	[SOW-320]	The Contractor SHALL ensure all technical documentation SHALL be provided in the English language.		
SOW	[SOW-321]	The Contractor SHALL provide technical documentation as required in the various Sections of this SOW.		
SOW	[SOW-322]	The Contractor SHALL ensure the Classification of Technical documentation is at the lowest level possible.		
SOW	[SOW-323]	The Contractor SHALL ensure the all documents, however short, identify the complete name and version of the software they refer to,		
		originator, date of production, the type of document, and Configuration Management information of the document itself.		
SOW	[SOW-324]	The Contractor SHALL ensure the all documents also contain a list of those CIs (title and version identifier) that the document or parts thereof		
		refer to.		
SOW	[SOW-325]	The Contractor SHALL submit all final and accepted versions of documentation deliverables in electronic format, as Portable Document		
		Format (PDF).		
SOW	[SOW-326]	The Contractor SHALL submit documentation, intended for review by the Purchaser, with each modification identified through the change		
		tracking feature or otherwise marked.		
SOW	[SOW-327]	The Contractor SHALL submit documentation, intended for review by the Purchaser, in electronic format.		
SOW	[SOW-328]	The manuals SHALL supplement the COTS O&M documentation the Contactor SHALL provide with the IEG-C System.		
SOW	[SOW-329]	The Contractor SHALL capture and document lessons learned during the System development and the System Installation.		
SOW	[SOW-330]	If activated, the Contractor SHALL provide updated technical documentation in accordance with Section 6.5 to cover the changes for each		
		optional site and service outlined in the SSS.		
SOW	[SOW-331]	The Contractor SHALL develop, provide and maintain the System Operation Manual (SOM).		
SOW	[SOW-332]	The Contractor SHALL provide an Operation Manual that describes the complete system by the explanation of functional blocks and CIs (HW,		
		SW).		
SOW	[SOW-333]	The Contractor SHALL provide an Operation Manual that defines the in-depth, step-by-step procedure how to operate the system and how to		
		perform Level 1 maintenance tasks.		
SOW	[SOW-334]	The Contractor's SOM SHALL include all the possible system operations in order to safely operate and use the capability.		
SOW	[SOW-335]	The Contractor SHALL ensure the operation described in the Manual is an outcome of the Operation and maintenance Task Analysis as		
		described in this SOW.		
SOW	[SOW-336]	The Contractor SHALL ensure that each and every procedure include as a minimum the following information:		
SOW	[SOW-337]	The Contractor SHALL develop, provide and maintain the System Maintenance and Administration Manual.		
SOW	[SOW-338]	The Contractor SHALL ensure the Maintenance Manual contains all possible Scheduled and Unscheduled maintenance procedures and all		
		possible Administration procedures as requested in this SOW.		
SOW	[SOW-339]	The Contractor SHALL ensure the Maintenance Manual contains a full illustrated product breakdown list. The Contractor SHALL ensure that		
		all CIs and all items required for maintenance are included in this full product breakdown list.		
SOW	[SOW-340]	The Contractor's Maintenance Manual SHALL provide functional descriptions and specifications, with appropriate drawings, of the		
		mechanical, electrical, and electronic assemblies, sub-assemblies, physical and logical components, configuration files and interfaces that		
		comprise the system.		
SOW	[SOW-341]	The Contractor's Maintenance Manual SHALL provide information, illustrations, and procedures required for: deployment, installation,		
		configuration, provisioning, disaster recovery, backup/restore, BIT/condition monitoring, fault finding and fault isolation/ troubleshooting		
		techniques, test remove/ replace; and check out of each hardware and software item with relevant safety instructions.		
SOW	[SOW-342]	The Contractor's Maintenance Manual SHALL provide description of all the configuration settings for the modules, services and components/		
		how configuring the logging and uses of performance counters/ where finding the log files/ the different categories of logging/ the different		
	<u> </u>	performance counter categories.		
SOW	[SOW-343]	The Contractor's Maintenance Manual SHALL provide the description for the usage of all third-party applications needed to configure,		
		manage and maintain the system.	 	
SOW	[SOW-344]	The Contractor's Maintenance Manual SHALL provide the descriptions of all indicators, switches, switch positions, and displays.		
SOW	[SOW-345]	The Contractor's Maintenance Manual SHALL define the in-depth, step-by-step procedure how to perform the 1st, 2nd and 3rd level	 	
		corrective and preventive maintenance tasks and SM&C tasks.		

SOW	[SOW-346]	The Contractor's Maintenance Manual SHALL include a maintenance plan to cover all the preventive maintenance activities based on the operational time or calendar time as applicable.		
SOW	[SOW-347]	The Contractor SHALL ensure the Procedures contained in the manuals are an outcome of the O&M Task analysis requested in Section 11.5.2.		
SOW	[SOW-348]	The Contractor SHALL ensure the manual includes an annex with troubleshooting information that provides breakdowns of actions to be performed to solve a full range of (potential) problems or provide workarounds (Problem Management).		
SOW	[SOW-349]	The Contractor SHALL ensure the manual contains all possible configuration information and settings.		
SOW	[SOW-350]	In case Software Identifier (SWID) tags cannot be automatically installed by software installers (e.g., legacy or third party software), the Contractor SHALL include in installation documentation descriptions of the process to manually install SWID tags.		
SOW	[SOW-351]	The Contractor SHALL ensure the manual contains all possible information on the use and locations of Log Files.		
SOW	[SOW-352]	The Contractor SHALL ensure that each and every procedure include as a minimum the following information:		
SOW	[SOW-353]	The Contractor SHALL provide OEM manuals for all Commercial Off-the-Shelf (COTS) hardware and software installed.		
SOW	[SOW-354]	The Contractor SHALL be responsible to keep the COTS OEM manual under configuration control and to assure that all the COTS OEM Manuals will be always coherent with the operation configuration deployed, i.e., OBL.		
SOW	[SOW-355]	The Contractor SHALL assure that all the possible information needed to configure, operate, manage and maintain the COTS product will be in the User Manual and in the Maintenance Manual if they are no in the COTS OEM manuals.		
SOW	[SOW-356]	The Contractor SHALL provide as-built installation drawings, which reflect the complete installation conducted by the Contractor for each site.		
SOW	[SOW-357]	The as-built drawings SHALL comprise of:		
SOW	[SOW-358]	The Contractor SHALL ensure that all as-built drawings are cross-referenced and consistent with each other and with any other documents provided under this Contract, such as manuals and training material.		
SOW	[SOW-359]	As-build drawings representing technical networking and service configuration diagrams SHALL use layered views, as follows:		
SOW	[SOW-360]	The Contractor SHALL ensure all Other Project Documentation respects the general requirement about publications in this SOW (SOW 11.6.12; SOW 11.6.13 as a minimum).		
SOW	[SOW-361]	The Contractor SHALL prepare and submit for approval a set of business rules which explain the harmonization criteria of all the technical documentation in terms of fonts, numbering, bullet points and all the publication rules to be used for the complete set of documentation. The business rules will be applicable for both Paper and electronic publication.		
SOW	[SOW-362]	The Contractor SHALL ensure all Manuals are printable if required and therefore the page format SHALL be A4, printable in loose-leaf form, and possible to be presented bound in stiff backed covers with 4-ringed binders which permit the removal and insertion of individual pages and drawings.		
SOW	[SOW-363]	The Contractor SHALL ensure each page contains the appropriate NATO classification of the manual at the top and bottom of each page.		
SOW	[SOW-364]	The Contractor SHALL ensure all pages containing drawings and schematic diagrams are of the same size as other pages of the manuals.		
SOW	[SOW-365]	The Contractor SHALL place the appropriate security classification in the identification block of each drawing.		
SOW	[SOW-366]	The Contractor SHALL deliver soft copies of any composed or compiled documentation in Compact Disc Read-Only Memory (CD-ROM) or digital versatile disc (DVD) format.		
SOW	[SOW-367]	The Contractor SHALL ensure all documentation delivered in this Contract is compatible with Microsoft Office Professional and Adobe PDF.		
SOW	[SOW-368]	The Contractor SHALL deliver O&M Manuals in Microsoft Office Professional or PDF format, if available. If not available in this format, another common format may be accepted. If the commercial documentation is not available in CD-ROM, another form of electronic media is acceptable with the prior authorization of the Purchaser PM.		
SOW	[SOW-369]	The Contractor SHALL ensure the physical support of electronic, optical or soft copies of documents display the highest level of the classification of their contents.		
SOW	[SOW-370]	The Contractor SHALL ensure the Header and/or Title of the directory structure of documentation provided in soft copy format bears a reminder of the highest classification level of its contents.		
SOW	[SOW-371]	For ease of handling, the Contractor SHALL separate unclassified from classified documentation and provided it on separate CD-ROMs or DVDs.		

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SOW	[SOW-372]	The Contractor SHALL be the responsible authority for the issue, control, and distribution of amendments to delivered documentation in the		
SOW	[SOW-373]	format provided for the associated equipment or system until expiration of the warranty period.		
		The Contractor SHALL test and validate the procedures and resources described in the technical manuals.		
SOW	[SOW-374]	The Contractor SHALL provide all the technical documentation at least 12 weeks prior to the final delivery dates outlined in SSS to enable the		
		Purchaser to perform a detailed review as the content matures and leave sufficient time for the updates resulted by the review. The		
		Contractor SHALL include the documentation release plan within the first version of ILSP for approval, to provide Purchaser enough visibility		
6011/	[60)4(275]	for the schedule.		
SOW	[SOW-375]	Not later than one (1) month prior to the delivery of the IEG-C at the first location, the Contractor SHALL submit a copy of the final technical		
	[60)4(276]	and training publications to the Purchaser for review.		
SOW	[SOW-376]	Any resulting recommended changes, corrections and/or additions submitted by the Purchaser SHALL be incorporated by the Contractor in		
5014/	[5014/277]	the final version.		
SOW	[SOW-377]	The Contractor SHALL provide the final versions of each Technical Publication, and Training Material in the requisite number of copies within		
5014/	[[[]]]	four (4) weeks of FSA.		
SOW	[SOW-378]	Until the expiration of the warranty, the Contractor SHALL remain responsible for any changes to the manuals and training material required		
		as a result of any omission or inaccuracy discovered in use or, whenever changes/modifications in equipment or spare parts are made under		
6011/	[60)4(270]	the Contractor's responsibility.		
SOW	[SOW-379]	The Contractor SHALL deliver two copies on CD-ROM of the IEG-C Operations Manuals for each of the sites, plus two copies for the NCI		
	[00)1/ 000]	Agency.		
SOW	[SOW-380]	In addition to the "Manual Issuing schedule", the Contractor SHALL update all Manuals as needed throughout this contract.		
SOW	[SOW-381]	The Contractor SHALL provide all training modules and courses required to enable all initially assigned the Purchaser personnel to operate		
		and maintain the system at Level 1, 2 and 3. The Contractor SHALL ensure all activities, milestones and actors associated with IEG-C System		
	[00)1/ 000]	Training are guided by the Training Plan.	 	
SOW	[SOW-382]	The Contractor SHALL design, develop and deliver minimum the following trainings;	 	
SOW	[SOW-383]	The Contractor SHALL design, develop, deliver and maintain the following types of training:	 	
SOW	[SOW-384]	As part of the system implementation the Contractor SHALL provide on-site training to all support staff designated by the Site POC and on all		
		tasks required to operate, maintain and recover the IEG-C System.	 	
SOW	[SOW-385]	As part of the training process the Contractor SHALL provide the on-site training course (operators and administrators/maintainers) for a		
		maximum number of two sessions in Mons for each type of training as outlined in [SOW-382], or another site designated by the Purchaser or		
		an online course. The Contractor SHALL provide the Transition Training in each installation site both for operation and maintenance, as		
	(applicable.	 	
SOW	[SOW-386]	The Contractor SHALL provide each training session for a maximum of 12 persons per session.	 	
SOW	[SOW-387]	The Contractor SHALL use the Training Needs Analysis (TNA) to refine the number of training sessions needed for each role.	 	
SOW	[SOW-388]	The Contractor SHALL deliver any additional training sessions that may be deemed necessary after completion of TNA at no additional cost to		
		the Purchaser.		
SOW	[SOW-389]	As part of the training process the Contractor SHALL provide Train the Trainer courses for a minimum of 5 instructors designated by the		
		Purchaser.	 	
SOW	[SOW-390]	Training and all related training documentation SHALL be provided in the English language.		
SOW	[SOW-391]	Training Courses SHALL be completed before the PSA (EDC+20mo) milestone, with the exception of the Test Crew trainings which SHALL be		
		provided before the official test events start.		
SOW	[SOW-392]	The Contractor SHALL provide all other facilities, services and equipment (including servers and workstations for students and teachers,		
		network equipment, all required software, etc.) necessary to carry out the On-Site Training activities.		
SOW	[SOW-393]	The Contractor SHALL identify the eventual prerequisite of the personnel for training participation as part of the TNA.		
SOW	[SOW-394]	The Contractor SHALL train the Reference and Testing Facility staff to operate the Reference and Testing Facility, through attending a short,		
		informal, on-site training course that the Contractor SHALL prepare, organise and lead.	 	
SOW	[SOW-395]	The Contractor SHALL provide training for all releases of the project.	 	
SOW	[SOW-396]	The Contractor SHALL ensure the Training Materials include how the Transition from one Release to the next release is realised and how to		
		install, configure and maintain the Modified or new Component capability, including COTS components.	 	
SOW	[SOW-397]	If activated, the Contractor SHALL provide all training related services and deliverables in accordance with Section 6.6 for each optional site		
		and service outlined in the SSS.		

SOW	[SOW-398]	The Contractor SHALL base the Training Process and Procedures on the results of the Contractor's TNA.		
SOW	[SOW-399]	The Contractor SHALL detail its approach and planning on how the TNA process will be performed and managed within its Training Plan.		
SOW	[SOW-400]	The Contractor SHALL conduct a TNA in accordance with the [BiSC D-075-007, 2015]. The TNA SHALL include (as a minimum):		
SOW	[SOW-401]	The Contractor SHALL base the TNA on the tasks resulting from Task Analysis carried out as part of the LSA Process and on the possible gaps		
		highlighted during the site surveys (so called Target Audience Analysis).		
SOW	[SOW-402]	The Contractor SHALL ensure the TNA considers all staff roles involved in IEG-C System operation, administration, maintenance and support		
		at all levels as they are assigned within Purchaser organization.		
SOW	[SOW-403]	The Contractor SHALL perform the TNA and create the courses as applicable for different types of administrators, operators, maintenance,		
		and support personnel as they are assigned within Purchaser organization.		
SOW	[SOW-404]	The Contractor SHALL deliver a TNA Report that captures the results of the TNA for Purchaser approval. The TNA report SHALL include the		
		following:		
SOW	[SOW-405]	The Contractor SHALL develop and provide an IEG-C System Training Plan. The Training Plan SHALL be updated to address the results of the		
		TNA.		
SOW	[SOW-406]	The Contractor SHALL develop and provide a Training Plan that describes how it will meet the Training requirements outlined in the contract		
		and found after the TNA for initial and follow-on training.		
SOW	[SOW-407]	The Contractor SHALL develop and provide a Training Plan that describes the quality management process for training.		
SOW	[SOW-408]	The Contractor SHALL develop and provide a Training Plan that addresses all stages of training development, delivery, and support covered		
		under this Contract.		
SOW	[SOW-409]	The Contractor SHALL develop and provide a Training Plan that describes in a coherent way how training will be designed, developed,		
		delivered, and maintained throughout the life of the IEG-C System.		
SOW	[SOW-410]	The Contractor SHALL develop and provide a Training Plan that includes training design documentation using the Course Control Document III		
		 Programme of Classes template provided in [BiSC D-075-007, 2015] Annex R-4. 		
SOW	[SOW-411]	The Contractor's Training Plan SHALL take the TNA results into consideration, and based on the TNA results it SHALL propose the specific		
		courses for all maintenance levels and operation.		
SOW	[SOW-412]	The Contractor's Training Plan SHALL propose the different training types (classroom, on the job training, train the trainer and CBTs) for each		
		course for Purchaser approval.		
SOW	[SOW-413]	The Contractor SHALL describe in this plan the approach to training, milestones, organization and resource requirements, management		
		structure, interrelationships and other tasks related for training development.		
SOW	[SOW-414]	The Contractor SHALL develop and provide a Training Plan that describes the training documentation for each course including but not		
		limited to the syllabuses, schedules, course prerequisites (both for attendees and physical resources), course descriptions and training		
		materials, method of evaluations and instructors.		
SOW	[SOW-415]	The Contractor SHALL recommend in this plan the mode(s) of training (e.g., formal classroom, individual computer-based, on-the-job,		
		commercial or a combination) and the rationale for these recommendations for each type of training (User , Administrator, etc.).		
SOW	[SOW-416]	The Contractor SHALL develop and provide a Training Plan that describes the transition training process.		
SOW	[SOW-417]	The Contractor SHALL develop and provide a Training Plan that describes the support to be provided by the Purchaser (manpower, services,		
		and material).		
SOW	[SOW-418]	The Contractor's Training Plan SHALL describe the basic physical classroom and infrastructure required to perform the training in Purchaser		
		locations.		
SOW	[SOW-419]	The Contractor SHALL prepare all e-learning training material in compliance with the Sharable Content Object Reference Model (SCORM)		
		edition 2004.	 	
SOW	[SOW-420]	The Contractor SHALL produce CBT/E-Learning material that complements the IEG-C classroom training by defining and explaining key		
	[00)	concepts and terminology of the operational processes as incorporated into IEG-C features and functions.	 	
SOW	[SOW-421]	The Contractor SHALL produce a CBT/E-Learning Package that allows modifications by the Purchaser to reflect changes in the training		
	[00)	concept and/or content without any additional cost to NATO.	 	
SOW	[SOW-422]	The Contractor SHALL produce a CBT/E-Learning Package to provide the system administrators with a generic view of the system		
		functionalities, operational aspects, troubleshooting and maintenance.		

SOW	[SOW-423]	The Contractor SHALL provide all the appropriate training documentation to support the Purchaser Personnel to test, operate and maintain the IEG-C System and its support equipment.		
SOW	[SOW-424]	Each training course material SHALL be provided for Purchaser review minimum 8 weeks before the start of the training courses.		
SOW	[SOW-425]	The Contractor SHALL generate the following Training Material:		
SOW	[SOW-426]	The Contractor SHALL ensure the Training documentation conforms to the standards outlined in the training Section of the SOW and SRS.		
SOW	[SOW-427]	The Contractor SHALL ensure the Training documentation (Including the E-Learning Material) is developed in accordance with the results of the TNA.		
SOW	[SOW-428]	The Contractor SHALL ensure the training materials for the IEG-C System-specific courses provide all the information required to conduct the courses and maintain the training materials.		
SOW	[SOW-429]	The Contractor SHALL ensure the materials follow an existing instructional methodology that links training objectives with course structure, instructional techniques, course content, and assessment tools.		
SOW	[SOW-430]	For the development of training material, the Contractor SHALL reuse existing COTS documentation and manuals to the maximum extent possible.		
SOW	[SOW-431]	The Contractor SHALL ensure all course content is referenced to commercial or Contractor-developed documentation preferably user or technical manuals that describe the subject matter and are available on-site to students after course completion.		
SOW	[SOW-432]	The Contractor SHALL ensure the hands-on exercises included in the Training Process incorporate all IEG-C System implementation activities at a site.		
SOW	[SOW-433]	The Contractor SHALL ensure that the IEG-C System Training Materials are all provided in the UK English language. It may be assumed that all Purchasers personnel selected to attend the courses will meet the minimum Standardised Language Proficiency (SLP) of 3232 in English as specified in [STANAG 6001, 2014].		
SOW	[SOW-434]	The Contractor SHALL include, in the Training presentation materials, all slides or other information to be presented by the instructor during the course.		
SOW	[SOW-435]	The Contractor SHALL include, a Training Syllabus containing the following elements:		
SOW	[SOW-436]	The Contractor SHALL develop and provide a Student Handbook for each course.		
SOW	[SOW-437]	The Contractor SHALL develop and provide a Student Handbook that provides the student with necessary information on all lesson objectives and contents, guidance for all learning activities and cross-references to assist the students in achieving the course objectives.		
SOW	[SOW-438]	The Contractor SHALL ensure that the Student Manuals take into account results from the DIF analysis and SHALL enable students to perform their major tasks.		
SOW	[SOW-439]	The Contractor SHALL ensure the System Operations training provides all necessary information, description and operational tasks to enable the Purchaser operators to use and perform the Level 1 maintenance activities.		
SOW	[SOW-440]	The Contractor SHALL ensure the Test Crew training provides all necessary information for the system specifications, testing environment, tools and test procedures for Purchaser test crew to be able to support the test activities. This training SHALL not exceed 4 hours in total.		
SOW	[SOW-441]	The Contractor SHALL ensure the Transition Training provides all necessary information for on-site Purchaser personnel to understand the system and its components, installation, connections and wirings, system components, preventive maintenance tasks, system shut-down and restart, disaster recovery, corrective maintenance tasks (e.g. troubleshooting, removal/replacement, software installation), and configuration system back-up procedures. This training SHALL aim to enable the on-site transition to operations for each site, and therefore it may have certain commonalities with the 'Systems Operations' and 'System Administration and Maintenance' training.		
SOW	[SOW-442]	The Contractor SHALL ensure the System Administration and Maintenance Training provides as a minimum the following training on the capability (up to Level 2 and Level 3):		
SOW	[SOW-443]	The Contractor SHALL provide an Instructor's Guide for each training course. It SHALL contain all necessary information to prepare and conduct lessons and to evaluate students, including exercises, quizzes, and examinations and their corresponding answer sheets.		
SOW	[SOW-444]	The Contractor SHALL ensure the training materials also provide notes to instructors to assist in conducting the lecture or exercise. The Contractor SHALL provide the Presentation materials in Microsoft PowerPoint.		

SOW	[SOW-445]	The Contractor SHALL ensure the IEG-C capability Instructor Guide details the sequence of course instruction, providing references to the		
3011	[0011 110]	applicable training presentation materials, assignments and laboratories, evaluation tools and answer keys, Student Manual, and the		
		Capability on-line help function. Within the Instructor Guide, the Contractor SHALL also include:		
SOW	[SOW-446]	The Contractor SHALL propose an assessment and evaluation methodology to the Purchaser as part of the Training Plan.		
SOW	[SOW-447]	The Contractor SHALL base the Training Assessment methodology on Sections 7-6 and 7-7 of [BISC D-075-007, 2015] for assessment		
	[0011 117]	approaches and instruments and include as a minimum:		
SOW	[SOW-448]	The Contractor SHALL ensure that each student is instructed at the end of each course or use of a Computer Based Training (CBT) to complete		
	[0011 110]	and return the course evaluation feedback form provided as part of the training course or E-Learning product.		
SOW	[SOW-449]	The Contractor SHALL consolidate and forward student feedback to the Purchaser following each training course in the form of a Training		
	[]	Evaluation Report. The report SHALL also recommend changes and improvements to the training plan based on the consolidated student		
		feedback.		
SOW	[SOW-450]	In the report, the Contractor SHALL also address student attendance, problems encountered and actions taken to resolve the problems.		
SOW	[SOW-451]	The Contractor SHALL revise/refine and reissue course material and CBT products to reflect the consolidated student feedback and proposed		
		improvements in the training evaluation report.		
SOW	[SOW-452]	The Contractor SHALL produce Training Certificates for each training session and student.		
SOW	[SOW-453]	The Contractor SHALL deliver Training Certificates later than two weeks following the completion of training.		
SOW	[SOW-454]	The Contractor SHALL provide the Purchaser's ILS POC with a System Inventory in electronic Microsoft Excel format at least 15 (fifteen)		
		working days before the first delivery of equipment.		
SOW	[SOW-455]	The System Inventory is site-specific and SHALL include all items furnished under this Contract, as follows:		
SOW	[SOW-456]	The Contractor SHALL use the inventory template provided the Purchaser to develop and submit the System Inventory. This template will be		
		provided by the Purchaser after Contract Award.		
SOW	[SOW-457]	The Contractor SHALL provide the tempest specific part information additionally in the Inventory List for the tempested items.		
SOW	[SOW-458]	The depth and content of the Inventory List SHALL be subject to the Purchaser Approval.		
SOW	[SOW-459]	On the basis that an adequate manufacturer's identification numbering system is in place, NATO codification (the request and assignment of		
		NATO Stock Codes – NSN) are not be required. In all other cases, NATO codification SHALL be required and the Contractor SHALL support the		
		NATO codification process in accordance with the requirements of AcodP-1 and the requirements of the STANAGs referenced and included in		
		AcodP-1, i.e. STANAG 3150, STANAG 3151, STANAG 4177, STANAG 4199 and STANAG 4438.		
SOW	[SOW-460]	All equipment SHALL be labelled in compliance with the Purchaser regulation and guidance. Labels SHALL at least contain the		
		Contractor/OEM's name, identification, part number and serial number to ensure proper and quick identification of equipment down to the		
		LRU level.		
SOW	[SOW-461]	The Contractor SHALL provide the details of the labelling approach in the CM Plan for Purchaser approval. The Contractor SHALL provide its		
		labelling for the items that are configured and/or modified after procurement from the OEM. For these items, the Contractor SHALL assign a		
		P/N for that specific configuration. The format and content of the labelling SHALL be provided to the Purchaser for		
SOW	[SOW-462]	Labelling SHALL be accomplished in a manner that will not adversely affect the life and utility of the assembly or module. Whenever	 	
5011	[5011 402]	practicable, the label SHALL be located in such a manner as to allow it to be visible after installation.		
SOW	[SOW-463]	Marking SHALL be as permanent as the normal life expectancy of the material on which it is applied and SHALL be such as required for ready		
		legibility and identification.		
SOW	[SOW-464]	Marking SHALL be capable of withstanding the same environment tests required of the part and any other tests specified for the label itself.		
		When possible, letters, numerals, and other characters SHALL be of such a size as to be clearly legible.		
SOW	[SOW-465]	All labelling and marking SHALL be in English language.		
SOW	[SOW-466]	Nameplates SHALL be attached to all major units of the system. Nameplates SHALL be in the English language with non-erasable letters/		
		numbers, clearly identifying the unit (unit designator); location code; as well as the Contractor or OEM CAGE code, part number and serial		
		number. These plates SHALL be properly attached in a prominent position on each major unit to enable reading and control with easy access	l	
		when installed. For the items requiring special handling and/or lifting up with additional tools due to heavy weight or high volume	l	
		(dimensions), special plates including the weight, dimensions and lifting points information SHALL be provided on the items. Also these items	l	
		SHALL have the adequate provisioning points to enable such special handling and lifting conditions.	l	

SOW	[SOW-467]	All equipment labels delivered by the Contractor SHALL contain a machine-readable code (e.g. barcode) compliant with [STANAG 4329] and	
		[AAP-44(A)] and in accordance with the NATO coding scheme, which will be provided by the Purchaser at the request of the Contractor. In	
		case NATO asset labels are provided by the Purchaser, the Contractor SHALL apply those labels in addition to the Contractor's labelling.	
SOW	[SOW-468]	The Contractor SHALL utilize these machine readable codes during the project to ensure that the following activities are carried out as	
		efficiently as possible:	
SOW	[SOW-469]	The Contractor SHALL provide a single, fully detailed, site-specific and priced Recommended Spare parts List (RSPL) that SHALL detail	
		comprehensively all spare parts, tools, test equipment, and consumables required to operate and maintain the system at all levels of support,	
		and in accordance with the RAMT requirements specified in the Contract, no later than 8 weeks before PSA (EDC+20mo) meeting.	
SOW	[SOW-470]	The RSPL SHALL separately list L1/2/3 (LRUs) items and L4 items (SRUs).	
SOW	[SOW-471]	The RSPL will be used by the Purchaser to evaluate the support concept and initial provisioning of Contractor-provided spares.	
SOW	[SOW-472]	The RSPL SHALL include, the following items:	
SOW	[SOW-473]	The RSPL SHALL include the following data elements:	
SOW	[SOW-474]	The Contractor SHALL provide a set of spares calculated with 98% confidence level (site level) and assumption of continuous operation for a	
5011	[5011 474]	vear.	
SOW	[SOW-475]	The Contractor SHALL provide the spare part calculations as a part of the Support Case.	
SOW	[SOW-476]	The Contractor SHALL also provide the technical consumables (filters, batteries, etc.) for preventive maintenance that will be enough for	
3000	[30 10-470]	approximately a year after FSA. The shelf life of these consumables SHALL be long enough to be usable until the end of first year from FSA.	
SOW	[SOW-477]	The Contractor SHALL deliver the set of the spares and consumables before PSA (EDC+20mo).	
SOW	[SOW-478]	The Contractor SHALL provide all tools and test equipment required to perform L1/2/3 maintenance, as identified in the RSPL.	
SOW	[SOW-479]	Procurement and replenishment of L1/2/3 spare parts, including PHS&T, SHALL be the responsibility of the Contractor as per the Contract	
		until FSA. Procurement, provisioning and replenishment of technical and non-technical consumables SHALL also be the responsibility of the	
		Contractor.	
SOW	[SOW-480]	The Contractor SHALL provide a detailed Software Distribution List (SWDL), which SHALL detail comprehensively all Computer Software	
		Configuration Items (CSCI) and associated software, firmware or feature/performance licenses provided under this Contract. The SWDL	
		SHALL include, the following data elements:	
SOW	[SOW-481]	The Contractor SHALL make sure that all licenses are originally registered with the Purchaser as end-user.	
SOW	[SOW-482]	The Contractor SHALL, for the purpose of transportation, package, crate, or otherwise prepare items in accordance with the best commercial	
		practices for the types of supplies involved, giving due consideration to shipping and other hazards associated with the transportation of	
		consignments overseas.	
SOW	[SOW-483]	Any special packaging materials required for the shipment of items SHALL be provided by the Contractor at no extra cost to the Purchaser.	
SOW	[SOW-484]	The packages, palettes and/or containers in which supplies are transported SHALL, in addition to normal mercantile marking, show on a	
		separate nameplate the name of this project, contract number and shipping address.	
SOW	[SOW-485]	In the case of dangerous goods and goods requiring export licenses, the Contractor SHALL ensure that all required forms and certificates are	
		provided and that all regulations for such goods are followed.	
SOW	[SOW-486]	For the purpose of transportation, all supplies SHALL be packaged to withstand the shipping hazards applicable to the chosen mode of	
		transportation. Any special packaging materials required SHALL be provided by the Contractor and disposed of by the Contractor after	
		unpacking, insofar as the packaging is not retained with the system (e.g. for storage of spares or return of failed equipment).	
SOW	[SOW-487]	The Contractor SHALL provide a confirmation of delivery to the Purchaser's ILS POC within two weeks after each shipment. This confirmation	
		SHALL summarize the supplies delivered, state the date of delivery, and provide a scan of the signature of the Purchaser POC on-site,	
		receiving the supplies.	
SOW	[SOW-488]	The Contractor SHALL be responsible of removal and disposal of all packaging material after installation in each site.	
SOW	[SOW-489]	The Contractor SHALL produce and provide packing lists that accompany each shipment, which will include the following:	
SOW	[SOW-490]	The Contractor SHALL ensure that two copies of the packing lists are fastened in a weather-proof, sealed envelope on the outside of each	
		box, palette and/ or container, and one packing list put inside each container/box.	
SOW	[SOW-491]	The Contractor SHALL be responsible for all handling and storage of equipment, packages, boxes and containers during the project.	

SOW	[SOW-492]	The Contractor SHALL also be responsible for organising and operating any handling equipment and storage facilities required.		
SOW	[SOW-493]	The Contractor SHALL arrange all that is necessary to access the sites where equipment is handled or stored.		
SOW	[SOW-494]	In the case of dangerous goods and goods requiring export licenses, the Contractor SHALL ensure that all required forms and certificates are		
		provided and that all Host Nation regulations for such goods are followed. The Contractor SHALL provide a list of such equipment.		
SOW	[SOW-495]	The Contractor SHALL be responsible for transportation and delivery of all equipment furnished under this Contract from its site in a NATO		
		nation to its respective implementation destination as outlined in Annex B1.		
SOW	[SOW-496]	Ten (10) working days before each shipment of supplies, the Contractor SHALL provide the Purchaser with a Notice of Shipment comprising the following details:		
SOW	[SOW-497]	The Contractor SHALL be responsible for any insurance covering these shipments.		
SOW	[SOW-498]	The Contractor SHALL also be responsible for transportation of repaired/ replacement items under warranty to the original location. Return of unserviceable equipment to Contractor facility for (warranty) repair/replacement is the responsibility of the Purchaser. However, if there are any special packaging requirements and materials required for the shipment, the Contractor SHALL be responsible providing the guidance and the special packaging material. Additionally, any export/import regulations and requirements SHALL be specified and directed by the Contractor.		
SOW	[SOW-499]	At the Purchaser designated staging area, the Contractor SHALL unload the equipment and move the equipment to its final destination for installation. The Contractor may use any support equipment provided by the Purchaser, but remains responsible for requesting, organizing and using any support equipment required to offload and move equipment to its final destination. If such support equipment is not available on-site, then the Contractor SHALL be the ultimate responsible to arrange such equipment with the shipment.		
SOW	[SOW-500]	The Contractor SHALL be responsible for customs clearance of all shipments into the destination countries. It is the Contractor's responsibility to take into account delays at customs. He SHALL therefore consider eventual delays and arrange for shipment in time. Under no circumstances can the Purchaser be held responsible for delays incurred, even when utilising Purchaser provided Customs Form 302.		
SOW	[SOW-501]	Prior to a shipment by the Contractor, the Purchaser will upon request issue a Customs form 302, which in some cases may facilitate the duty free import/export of goods. The Contractor SHALL be responsible for requesting the issue of a form 302 at least 10 (ten) working days prior to shipment. The request for a Form 302 SHALL be included with the Notice of Shipment and accompanied by one (1) additional packing list. The request is normally processed by the Purchaser within three (3) working days. The requested 302 forms will be sent by courier. The original 302 forms SHALL accompany the shipment and therefore no fax or electronic copy will be used, nor provided to the Contractor.		
SOW	[SOW-502]	If a country refuses to accept the Form 302 and requires the payment of customs duties, the Contractor SHALL pay these customs duties and the Purchaser SHALL reimburse the Contractor at actual cost against presentation of pertinent supporting documents. Should such an event occur, the Contractor SHALL immediately inform the Purchaser by the fastest means available and before paying, obtain from the Customs Officer a written statement establishing that his Country refuses to accept the Form 302.		
SOW	[SOW-503]	The Contractor SHALL be responsible for managing and performing all activities that is necessary to obtain export licenses for the goods requiring such licenses.		
SOW	[SOW-504]	The Contractor SHALL provide a detailed list of the equipment requiring export licenses. The Contractor SHALL provide the necessary procedures that needs to be applied for items to be relocated for repair or any other purposes.		
SOW	[SOW-505]	The Contractor SHALL perform all the maintenance and support activities (Level 2, 3, and Level 4) starting with activation of the Reference Environment until the successful completion of PSA (EDC+20mo) milestone.		
SOW	[SOW-506]	The following criteria SHALL be met to achieve FSA:		
SOW	[SOW-507]	The Contractor SHALL apply the formal Change Management process for the fixes requiring the change of the approved baseline.		
SOW	[SOW-508]	Starting from PSA (EDC+20mo) and until FSA (EDC+27mo) when all the site acceptance activities are completed; the Contractor SHALL be responsible for the Level 2, Level 3 and Level 4 maintenance and support activities in each activated site within the scope of the Initial Operational Support.		
SOW	[SOW-509]	In case of a critical failure in the systems effecting the continuity of the operation, the Contractor SHALL restore the system maximum within 3 business days. In case of a non-critical failure not effecting the operation, the Contractor SHALL fix the failure within 10 business days.		

SOW	[SOW-510]	This support SHALL include, but not limited to, Level 2 maintenance that will focus on using Built-In Test Equipment (BITE), standard tools and		
		test equipment, on-equipment, day-to-day corrective and preventive maintenance. This SHALL include replacement of LRU's, manual		
		reconfiguration and adjustments, detailed baseline inspections and checkouts, fault identification and isolation, problem management,		
		limited calibrations, and minor equipment repairs.		
SOW	[SOW-511]	This support SHALL include, but not limited to, the Level 3 maintenance and support will constitute the engineering level. It SHALL include in-		
		depth testing, problem and modification analysis, release management, complex repairs and replacements, node and mission configuration(if		
		applicable), calibration, scheduled servicing, overhaul and rebuild, implementation of major and/or critical changes, baseline restoration,		
		post-maintenance review, supply support and PHS&T.		
SOW	[SOW-512]	This support SHALL include the Level 4 maintenance that involves standard warranty type services for repair or replacement of the items.		
SOW	[SOW-513]	If activated by the Purchaser, the Contractor SHALL extend the operational support period as options outlined in SSS.		
SOW	[SOW-514]	The Contractor SHALL warrant that all equipment and software furnished under this Contract and all installation work performed under this		
		Contract conform to the requirements and is free of any defect in material, code or workmanship for a period starting at date of FSA to date		
		of FSA plus one (1) year.		
SOW	[SOW-515]	The Contractor SHALL support the system as part of the project implementation scope from the first site activation until FSA (EDC+27mo)		
		milestone is successfully completed. During this period, the Contractor SHALL provide on-site and off-site maintenance and support services		
		as required.		
SOW	[SOW-516]	The Contractor SHALL fix/repair/replace all items received as per his internal procedures with the highest priority allocated. The Contractor		
		SHALL provide the repaired/replacement item within maximum 20 business days after the Purchaser has provided the failure notification in		
		written.		
SOW	[SOW-517]	The Contractor SHALL acknowledge and propose a corrective action for the failed components within two business days after the initiation of		
		the warranty request. In the case of a failure could not be identified to an LRU level and/or could not be isolated within 3 business day		
		(starting with the warranty request) even with on-call assistance from the Contractor, the Contractor SHALL dispatch a field engineer to		
		provide a solution on-site.		
SOW	[SOW-518]	The Contractor SHALL provide a specific Customer POC for all warranty and support requests. The Contractor SHALL detail all the warranty		
		and support requirements in its ISSP including the roles and responsibilities.		
SOW	[SOW-519]	The Contractor SHALL be responsible for the provision of any alternative or superseding items, should the original part be no longer available,		
		ensuring compliance with the original design and System provided by this Contract. However, in such cases the Contractor SHALL propose the		
		original alternative item for the Purchaser approval. The alternative item SHALL conform with all the specified quality requirements within		
		the scope of the contract and standards.		
SOW	[SOW-520]	The Contractor SHALL provide a Technical Assistance to the Purchaser or his representatives during the warranty period. Technical assistance		
		information details SHALL be indicated in the ISSP.		
SOW	[SOW-521]	The Technical Assistance SHALL provide on-call and/or on-site support in English for requests that correspond to information demands		
		limited to the perimeter of delivered products, evolution proposals, problem reports, or any information needed by the Purchaser or its		
		representatives, which are not included in the supplied technical documentation.		
SOW	[SOW-522]	If the Contractor becomes aware at any time before acceptance by the Purchaser that a defect exists in any supplies, the Contractor SHALL		
		coordinate with the Purchaser and promptly correct the defect.		
SOW	[SOW-523]	Defect magnetic, solid state and electronic media storage devices (e.g., CD-ROM's, DVD's, Universal Serial Bus (USB) sticks, solid state storage		
		drives, hard drives) SHALL remain NATO property, at no additional cost, and not be returned to the Contractor when being replaced.		
SOW	[SOW-524]	The Contractor SHALL replace any such defect storage devices with new storage devices at no additional cost to the Purchaser.		
SOW	[SOW-525]	The Contractor SHALL be responsible for the provision of any alternative or superseding items, should the original part be no longer available,		
		ensuring compliance with the original design provided by this Contract.		
SOW	[SOW-526]	During the warranty period, the Contractor SHALL be responsible for supplying all COTS hardware and software upgrades and updates.		
SOW	[SOW-527]	The Contractor SHALL make the availability of COTS hardware and software upgrades and updates known to the Purchaser and, if proposed		
		for introduction by the Contractor for whatever reason, including any corrective action for an identified fault, SHALL always be subject to		
		Purchaser approval.		

SOW	[SOW-528]	The Contractor SHALL request formal authorization from the Purchaser to proceed with deactivation and removal of legacy equipment.		
SOW	[SOW-529]	The Contractor SHALL be responsible for the removal of the items from the installation facilities as required, and SHALL hand-over such		
		devices to the Purchaser in local Purchaser warehouse.		
SOW	[SOW-530]	The Contractor SHALL work with local site personnel to ensure the controlled removal and disposal, unless otherwise specified by the Purchaser.		
SOW	[SOW-531]	The Contractor SHALL ensure the overall implementation at the sites respects the achievement of milestones as described in SECTION 3.		
SOW	[SOW-532]	The Contractor SHALL execute implementation activities in several steps:		
SOW	[SOW-533]	The Contractor SHALL conduct site surveys at all the sites related to the Site Activation and FSA milestones, and which are part of the contract		
	[60]4(524]	(i.e., data centre sites, and additional options which have been activated under the contract; see SECTION 3).		
SOW	[SOW-534]	The Contractor SHALL follow the site survey process as described in SECTION 9: Site Surveys		
SOW	[SOW-535]	The Contractor SHALL adjust the activities and deliverables to the results of the site surveys.		
SOW	[SOW-536]	The Contractor SHALL propose, for Purchaser approval, the implementation sequence of sites implemented at PSA in the System Implementation Plan (SIP) (see ANNEX B).		
SOW	[SOW-537]	The Contractor SHALL produce and deliver a SIP that at least meet all contents requirements as laid out in section 15.11.		
SOW	[SOW-538]	The Contractor SHALL coordinate the installation and activation dates reflected in the SIP with the Purchaser and the Site POCs to		
		accommodate site-specific requirements, exercises, holiday periods, and other considerations. Any such dates and any revision of these dates		
		SHALL be coordinated with the Purchaser and the relevant sites at least four weeks before the start of the relevant activities.		
SOW	[SOW-539]	The Contractor SHALL provide each site POC, with a copy to the Purchaser Project Manager, with a draft list of hardware and software to be		
		shipped, and a list of Contractor's personnel together with a copy of each person's Personnel Security Clearance (PSC) for those who will be		
		involved in site installation and activation work.		
SOW	[SOW-540]	The Contractor SHALL monitor the progress of any required Site facilities preparations, and the progress of any required provision of input by		
		the Purchaser and the Site, to ensure timeliness and quality of the preparatory work required from the Purchaser.		
SOW	[SOW-541]	The Contractor SHALL ensure that anything that may delay installation is brought to the attention of the Purchaser Project Manager promptly.		
SOW	[SOW-542]	The Contractor SHALL prepare and conduct a Site Verification Survey no later than two months prior to installation activities at the site. The	1	
		purpose of this Site Verification Survey is to verify that the information provided by the site is still valid, and to perform any necessary		
		updates to the system implementation documentation. The Contractor may recommend to the Purchaser that certain Site Verification		
		Survey(s) are not warranted, which the Purchaser may accept or reject.		
SOW	[SOW-543]	The Contractor SHALL issue the updated SIP immediately after the Site Verification Survey and no later than two weeks before the Site		
		installation.		
SOW	[SOW-544]	The Contractor SHALL produce a Site Activation/ Acceptance Plan in coordination with the Purchaser.		
SOW	[SOW-545]	The Contractor SHALL perform site installation and activation at any site, which comprises the following activities:		
SOW	[SOW-546]	The Contractor SHALL coordinate the start date of the planned installation no later than three weeks before that start date.		
SOW	[SOW-547]	Throughout all Site installation activities the Contractor SHALL hold a daily meeting with the site POC to agree on the work to be conducted		
		during the day.		
SOW	[SOW-548]	Although the Purchaser will provide the facilities in which the IEG-C will be installed and the external systems to which it will be interfaced,		
		the Contractor SHALL be responsible for timely and complete delivery and installation of all relevant supplies.		
SOW	[SOW-549]	The Contractor SHALL ensure that the equipment to be installed in any of the relevant site facilities (as identified by the site during the site		
		survey) has been tested and certified to operate at the "facility's zone level". The Contractor SHALL provide relevant evidence to the site		
	[00)::	before installing any IEG-C piece of equipment.	├ ─── ├ ──	
SOW	[SOW-550]	The Contractor SHALL unpack all IEG-C equipment at the installation location and dispose of packing materials as directed by the Purchaser's		
6014/		Site POC.		
SOW	[SOW-551]	The Contractor SHALL install all equipment in accordance with the applicable document indicated in [NCIA AI TECH 06.03.01, 2015].		
SOW	[SOW-552]	The Contractor SHALL connect all equipment to electrical power and communications interfaces provided by the Purchaser.		
20 W	[5077-553]			
SOW	[SOW-552] [SOW-553]	The Contractor SHALL connect all equipment to electrical power and communications interfaces provided by the Purchaser. The Contractor SHALL turn on all equipment and configure hardware and software settings to match the PBL and site infrastructure configuration.		

SOW	[SOW-554]	The Contractor SHALL perform site activation activities locally at the site.	
SOW	[SOW-555]	The Contractor SHALL ensure that none of the site activation activities have any impact on the NATO Staff Users' desktop applications, except	
	[]	for some authorised potential and limited outages.	
SOW	[SOW-556]	The Contractor SHALL conduct the site activation tests.	
SOW	[SOW-557]	For that purpose, The Contractor SHALL provide a Site Activation Test Report for each site.	
SOW	[SOW-558]	The Contractor SHALL execute Site Activation tests on the operational sites that demonstrate that the equipment installed so far (i.e., both on	
		the individual site and system-wide if other sites have already been installed) provides the Contractual functionality and performance level,	
		including all interfaces with all internal and external system, including administration requirements, and is ready for operational use.	
SOW	[SOW-559]	The Contractor SHALL carry out the site activation tests for a maximum of one week at each site, exclusive of any preparation time.	
SOW	[SOW-560]	For each of the sites where a component of the IEG-C system is to be installed and local management to be activated, the Contractor SHALL	
		modify the approved generic SecOPs (see 16.1.3.8) to meet the requirements of the local site.	
SOW	[SOW-561]	The Contractor SHALL deliver and present the localised version of the IEG-C SecOPs to the local SAA for approval.	
SOW	[SOW-562]	The Contractor SHALL take into account any comments from the reviewers and Local SAA and SHALL update the document as many times as	
		necessary in order to gain Local SAA approval of the IEG-C localised SecOPs for the site.	
SOW	[SOW-563]	For each site where a component of the IEG-C system is to be installed, the Contractor SHALL provide inputs to the local SSCS to meet the	
		requirements of the local site.	
SOW	[SOW-564]	The Contractor SHALL deliver and present the proposed modifications of the SSCS to the local SAA for approval.	
SOW	[SOW-565]	The Contractor SHALL take into account any comments from the reviewers and Local SAA and SHALL update the proposal as many times as	
		necessary in order to gain Local SAA approval of the IEG-C localised SSCS for the site.	
SOW	[SOW-566]	The Contractor SHALL support the local security staff in the completion of the SSCS.	
SOW	[SOW-567]	For each of the sites where a component of the IEG-C system is to be installed, the Contractor SHALL modify the approved generic STVP to	
		meet the requirements of the local site.	
SOW	[SOW-568]	The Contractor SHALL deliver and present the localised version of the STVP to the local SAA for approval.	
SOW	[SOW-569]	The Contractor SHALL take into account any comments from the reviewers and Local SAA and SHALL update the document as many times as	
		necessary in order to gain Local SAA approval of the IEG-C localised STVP for the site.	
SOW	[SOW-570]	The Contractor SHALL support the NCI Agency in the execution of the STVP.	
SOW	[SOW-571]	The Contractor SHALL schedule and perform the PCA with the Purchaser ILS POC.	
SOW	[SOW-572]	The Contractor SHALL co-ordinate the PCA with the Purchaser's ILS POC.	
SOW	[SOW-573]	The Contractor SHALL produce and deliver a PCA Report.	
SOW	[SOW-574]	The Contractor SHALL perform the corrective actions as outlined in the PCA Report.	
SOW	[SOW-575]	The Contractor SHALL deliver to the sites all documentation that is required for system implementation and operation.	
SOW	[SOW-576]	The Contractor SHALL update the documentation delivered at the sites to accommodate any site-specific changes and/or configurations.	
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SOW	[SOW-577]	Upon completion of site implementation work, the Contractor SHALL provide the Purchaser with a copy of the site installation and activation	
	(checklist and resolve any discrepancies identified.	
SOW	[SOW-578]	The Contractor SHALL keep the Documentation under configuration control, as per section 18.11.	
SOW	[SOW-579]	All information items used during the verification and validation activities are to be classified and handled according to their security	
	[0014 500]	classification. Guidance is provided in this SOW, under the security section.	_
SOW	[SOW-580]	The Contractor SHALL have the overall responsibility for meeting the TVV requirements and conducting all related activities. This includes the	
		development of all TVV documentation required under this Contract, the conduct of all independent verification, validation and assurance	
5014/		events, and the evaluation and documentation of the results.	
SOW	[SOW-581]	All deliverables supplied by the Contractor under this contract SHALL be verified and validated to meet the requirements of this contract. All document-based deliverables SHALL be produced in a manner compliant with the templates provided by the Purchaser. In particular:	
		document-based deliverables SHALL be produced in a manner compliant with the templates provided by the Purchaser. In particular:	
SOW	[SOW-582]	The Contractor SHALL be responsible for the planning, execution and follow-up of all TVV events. The Purchaser will assist in preparations by	
	[reviewing and providing feedback on all Contractor produced configuration items. The Purchaser will also provide testing and engineering	
		Subject Matter Expertise (SME) during all TVV events to witness and assist with these events.	

SOW	[SOW-583]	The Contractor SHALL demonstrate to the Purchaser that there is a testing process in place for the project, supported by Contractor Quality Assurance (QA).		
SOW	[SOW-584]	Where requested by the Purchaser, the Contractor SHALL provide test data to support all TVV activities.		
SOW	[SOW-585]	The Contractor SHALL strictly follow the TVV processes (described in the latest version of the TV&V Process Definition and Execution		
		Document (PDED) provided by the purchaser). When Contractor would like to propose a modification, it SHALL be approved by the		
		Purchaser.		
SOW	[SOW-586]	The Contractor SHALL ensure that rigorous testing, including regression testing when required, is performed at every stage of the Project		
		lifecycle in order to identify and correct defects as early as possible and minimise impact on cost and schedule.		
SOW	[SOW-587]	All test, verification and validation material developed and used under this contract SHALL be delivered to the Purchaser.		
SOW	[SOW-588]	The Contractor SHALL provide an overall project Test Director for the phases defined in Table 14: List of TVV Phases, who will work closely		
		with the Purchaser's assigned TVV Manager and NATO Quality Assurance Representative (NQAR). Table 14: defines the test phases		
		considered. If deemed necessary, IEG-C project may split the test phases defined in Table 14: into multiple events.		
SOW	[SOW-589]	The Contractor SHALL use Key Performance Indicators (KPIs) to identify opportunities for quality improvement, provide solutions and update		
		the plans, the achievement of defined objectives like coverage of risks, requirements, supported configurations, supported operational		
		scenarios, etc.		
SOW	[SOW-590]	The Contractor SHALL have the overall responsibility for meeting the TVV requirements and conducting all related activities defined in Table.		
		Each phase may have one or more events to complete the full scope.		
SOW	[SOW-591]	The Contractor SHALL only proceed to the next formal TVV activity, after the successful completion of the previous TVV activity and after the		
	(agreement/approval by the Purchaser.		
SOW	[SOW-592]	The Contractor SHALL provide a System Test Documentation Package, following documentation templates provided by the Purchaser, that is		
	[00)1/ 500]	comprised of the following documents in Table 15: Test Documentation:		
SOW	[SOW-593]	If applicable, the Contractor SHALL develop and validate any Test Harnesses, simulators and stubs, including all script/code/data/tools		
		required to execute the planned functional and non-functional tests in the Test Environment. The Test Harnesses for PFE will be provided by		
	[60]1/ 50.4]	the Purchaser.		
SOW	[SOW-594]	Modification of inaccurate or inadequate TVV deliverables and any subsequent work arising as a result SHALL be carried out at the		
SOW	[SOW-595]	Contractor's expense. All TVV materials developed and used under this contract SHALL be delivered to the Purchaser.		
SOW	[SOW-595]	Templates provided by the Purchaser are to be utilized by the Contractor as structure guides and for the content the Purchaser expects to be		
30 W	[3010-390]	detailed. If the Contractor would like to propose a modification of the templates, it SHALL be approved by the Purchaser.		
SOW	[SOW-597]	All deliverables SHALL undergo as many review cycles are required, and SHALL be approved once all deficiencies have been corrected.		
	[]			
SOW	[SOW-598]	The Contractor SHALL identify and describe in the Master Test Plan (MTP) which best practices and international standards will be applied		
		and how.		
SOW	[SOW-599]	The Contractor SHALL produce a Master Test Plan (MTP) to address the plans for each TVV activities listed in this document. The Purchaser		
		will monitor and inspect the Contractor's MTP activities to ensure compliance.		
SOW	[SOW-600]	The Contractor SHALL keep the MTP always up to date.		
SOW	[SOW-601]	The Contractor SHALL describe how the Quality Based Testing is addressed and implemented in the MTP. Figure 5: Product Quality Criteria is		
		based on ISO 25010 and should be used as product quality criteria model.		
SOW	[SOW-602]	The Contractor SHALL describe all formal TVV activities in the MTP with a testing methodology and strategy that fit the development		
		methodology chosen by the project.		
SOW	[SOW-603]	The Contractor proposed testing methodology SHALL describe the method of achieving all the test phases, defined in Table 14, successfully.		
SOW	[SOW-604]	The Contractor SHALL describe in the MTP how the following objectives will be met:		1
SOW	[SOW-605]	The Contractor SHALL describe the Contractor's test organization and its relationship with the Contractor's Project Management Office and	1	
	[2210 000]	Quality Assurance (QA) functions in the MTP.		
SOW	[SOW-606]	The Contractor SHALL describe in the MTP "Entry and "Exit" criteria for each of the formal TVV events. The Contractor SHALL seek approval of	1	
	,	all criteria related to an event not later than the TRR of the event.		

SOW	[SOW-607]	The Contractor SHALL provide in the MTP the schedule, location and scope for all the events to be run, specifying to which phase they	
SOW	[SOW-608]	belong. When the contractor identifies that multiple events are required for a phase, this SHALL also be specified in the MTP. Together with the MTP, the contractor SHALL provide a defect reporting and management process to be applied during the TVV activities in	
3010	[30 11-008]	Table 14.	
SOW	[SOW-609]	The Contractor SHALL describe how defects/non-conformances encountered during TVV events will be reported, managed and remedied.	
SOW	[SOW-610]	The MTP SHALL include the Contractor's approach to Test Reviews including Test Readiness Reviews (TRR) and Event Review Meetings (ERM) for each TVV event.	
SOW	[SOW-611]	The Contractor SHALL provide Contractor's provisions and strategy for building/maintaining of the Reference Environment in the MTP.	
SOW	[SOW-612]	The contractor SHALL develop test and use cases to verify and validate all requirements in the SOW, requirements specifications (SRS) and final design. The test cases SHALL follow the template provided by the Purchaser.	
SOW	[SOW-613]	The Contractor developed Test Case/Procedures SHALL clearly describe all the test steps that meet or demonstrate Purchaser's requirements with an expected Test Result and pass/fail result.	
SOW	[SOW-614]	The Contractor SHALL develop test cases and steps for each of the contractual test activities following each type of quality criteria. The Contractor SHALL ensure full test coverage based on a risk analysis and submit them for the Purchaser's review and approval.	
SOW	[SOW-615]	The Contractor SHALL use test tools for development of Test Cases and procedures. Whatever Test tool is used by the Contractor, the output format SHALL fully be compatible, transferrable and usable with the Purchaser's tools.	
SOW	[SOW-616]	The Purchaser will review and provide comments to the Contractor delivered Test Cases, Test Procedures and Test Steps within 4 weeks of receipt. Any updated subsequent versions SHALL follow 4 week review cycle by the Purchaser.	
SOW	[SOW-617]	All the Contractor developed Test Cases, Test Procedures and Test Steps SHALL be approved by the Purchaser prior to their execution.	
SOW	[SOW-618]	If the Contractor produced Test Cases, Test Procedures and Test Steps are not approved by the Purchaser, the execution of relevant testing SHALL be adjusted or delayed accordingly until approved by the Purchaser.	
SOW	[SOW-619]	The purchaser must have the final version of the test cases and Event Test Plan available one (1) week prior to the TRR for a specific TVV event	
SOW	[SOW-620]	Any updates required from the execution of test cases during the each phase SHALL be incorporated into the relevant test cases by the Contractor for use during independent verification, validation and acceptance. If only certain sections are affected, then it SHALL be sufficient to up-date and re-issue those section plus cover sheet with amendment instructions. Should major changes in contents or page re-numbering be needed, then the complete section SHALL be re-issued by the Contractor. All changes SHALL be made with the agreement and approval of the Purchaser	
SOW	[SOW-621]	The contractor SHALL create an Event Test Plan (ETP) per each event detailing all the information required for that event. The ETP SHALL follow the template provided by the Purchaser.	
SOW	[SOW-622]	The Contractor SHALL describe in the event test plan what training (if any) will be provided prior to formal TVV events.	
SOW	[SOW-623]	The Contractor SHALL identify, in the ETP, which environment(s) to be used at each TVV event and the responsibilities for configuration control, operation and maintenance of the environment	
SOW	[SOW-624]	The ETP SHALL describe when an agreement SHALL be reached between the Contractor and the Purchaser on the defect categorization and defect priority of failures encountered, as well as a way forward (if either at the end of each day of a TVV event or at the Event Review Meeting). If agreement is not reached, the disputed items SHALL be escalated to the Purchaser's and Contractors' Project Managers	
SOW	[SOW-625]	The Contractor SHALL record the results for each test called for in the Test Plan in a Test Log (also known as Test Execution Log).	
SOW	[SOW-626]	The test report SHALL follow the template provided by the Purchaser, where the cover sheet SHALL clearly show how many tests passed, failed or were not run.	
SOW	[SOW-627]	Test report SHALL indicate the result of the test cases execution.	
SOW	[SOW-628]	Where the Purchaser or his representative has witnessed the testing, appropriate annotations SHALL be made on each page of the test results to ensure that the test report is a true record of test activities and results as witnessed by the Purchaser, and the whole test report SHALL be signed by the Contractor representative and by the Purchaser representative on completion of that testing.	

SOW	[SOW-629]	The Contractor SUALL produce and maintain the Deguinement Traceshility Matrix (DTMA) which includes all functional and non-functional	
50.00	[3000-029]	The Contractor SHALL produce and maintain the Requirement Traceability Matrix (RTM), which includes all functional and non-functional requirements (respecting Purchaser's provided requirement IDs), to track the TVV status of all requirements throughout the Contract	
		execution (especially during the TVV activities). The RTM SHALL also trace the requirements to the design. It SHALL also define how the	
SOW	[SOW-630]	requirements will be validated or verified at each of the TVV activities: The Purchaser will review and approve the proposed RTM.	 -
SOW			
	[SOW-631]	The contractor SHALL maintain the RTM updated during the project lifecycle.	
SOW	[SOW-632]	The Contractor SHALL provide the Purchaser with updates (via the tools) to the RTM daily during the execution of an event, and following the	
		conclusion of each event defined in Table 14: List of TVV Phases. A workflow for updating the RTM SHALL be proposed by the Contractor and	
6014	[SOW-633]	approved by the Purchaser.	
SOW	[3000-033]	The contractor SHALL include in the RTM (and be able to differentiate from SRS requirements) the requirements derived from the gap	
6014	[SOW-634]	analysis of the Operational Acceptance Criteria.	
SOW	[5010-634]	The Contractor SHALL produce an STVP, to ensure that the Security testing, including verification of compliance with NATO CIS security	
		regulations (in Annex C of the SOW) is applied. This is an integral part of the Independent Verification and Validation process.	
SOW	[SOW-635]	The STVP SHALL support the accreditation of the System Platform. This document SHALL be approved by Security Accreditation Authority	
30 11	[5010-055]	(SAA) – Section 10.2.	
SOW	[SOW-636]	The Contractor SHALL generate and deliver automated test procedures/cases compatible with Purchaser test management and automation	
30 11	[3010-030]	tools.	
SOW	[SOW-637]	The Contractor SHALL make use of automated testing and supporting testing tools (test management, requirement coverage, defect	
	[0011 007]	management, etc.) to the maximum applicable extent, for all system development, implementation, internal and formal tests. The process	
		and proposed supportive tools SHALL be described in the Master Test Plan (MTP). In areas where the Purchaser already uses specific tools,	
		the Contractor SHALL make use of the tools in use by the Purchaser	
SOW	[SOW-638]	Tools supporting requirements coverage, defect management and test management SHALL be selected and hosted by the purchaser and	
		used by the Contractor. For any internal work, the Contractor may use their own internal tools, but the tools used for the contractor's	
		internal work SHALL be able to natively interface with the tools selected and hosted by the Purchaser in order to keep all TVV related data for	
		the project in the purchaser tools.	
SOW	[SOW-639]	The Contractor SHALL conduct testing during the Project lifecycle compliant with the following requirements:	
SOW	[SOW-640]	The Contractor is responsible for conducting all testing during the Project lifecycle. The contractor SHALL provide evidence to the Purchaser	
		of the results of these testing activities. The Contractor SHALL respond to any Purchaser clarification requests regarding test results or	
		performance within two working days.	
SOW	[SOW-641]	The Contractor SHALL conduct all testing activities for any architectural changes.	
SOW	[SOW-642]	The Contractor SHALL support post go-live activities during the Operational Acceptance phase, to evaluate the IEG-C capability performance	
		and establish benchmarks for future enhancements, including any changes made to fulfil the requirements.	
SOW	[SOW-643]	The Contractor SHALL provide status reports to the Purchaser regarding verification and validation activities during the planning/design and	
		development phases, via the use of a dashboard report within the test management tool set and through meetings. The Contractor SHALL	
		provide report(s) to the Purchaser following the completion of any TVV event. The Purchaser will approve the report and its findings within	
		five business days.	
SOW	[SOW-644]	Progress and result measurement SHALL be approved by the Purchaser and focused on KPIs.	
SOW	[SOW-645]	Test results SHALL be recorded in the test management tool set. All results of all formal acceptance testing performed during a given day	
		must be recorded in the test management tool. The Contractor SHALL provide these test results for any given day by the starting of the next	
		business day (0800 AM), but as a minimum not later than 24 hours following the execution of any test.	
SOW	[SOW-646]	The Contractor SHALL conduct a Test Readiness Review (TRR) meeting at least one week prior to the events defined in Table 14: List of TVV	
	1	Phases. The TRR SHALL ensure that all entry criteria for the events have been met. Documentation that requires review by the Purchaser	
		prior to a TRR, as defined in the Event Test Plan (ETP), SHALL be provided no less than 2 weeks prior to TRR.	
SOW	[SOW-647]	The Purchaser has the right to cancel the TRR and/or any formal test event if the evidence demonstrates that execution of the test event will	
		not be effective.	
SOW	[SOW-648]	The Contractor SHALL demonstrate that all the internal tests and dry runs are successful with test reports and results delivered to the	
		Purchaser at least 2 weeks prior to start of any Contractual test activities.	

SOW	[SOW-649]	The start and/or ending of any test session SHALL be subject to the Purchaser approval. In the event that critical issues are encountered		
	[]	which impact the process of the testing or if the other functions depend on the failed test cases, the Purchaser has the right to stop the		
		testing for Contractor's investigation. The tests can only re-start if Purchaser agrees to continue testing from the point of failure or re-start		
		testing from the beginning.		
SOW	[SOW-650]	The Contractor SHALL convene an Event Review Meeting (ERM) as defined in the ETP and MTP. The ERM SHALL ensure that the event		
		results, defect categorization and a way forward to fixing the defects (if required) is agreed upon the Contractor and the Purchaser as well as		
		any other items identified in the exit criteria defined and agreed for the event. If agreement is not reached, the disputed items SHALL be		
		escalated to the Purchaser's and Contractors' Project Managers. The exit criteria presented in the ERM may as well be utilized as success		
		criteria.		
SOW	[SOW-651]	An event starts with the Test Readiness Review (TRR) and finishes off with the Event Review Meeting (ERM).		
SOW	[SOW-652]	During formal TVV phases, a daily progress debrief SHALL be scheduled. Participation to the daily progress debrief will be agreed between		
		Purchaser and Contractor. The aim of the debrief is to get a common understanding on what tests were run, which passed, which failed, and		
		whatever defects were reported during the day.		
SOW	[SOW-653]	For each TVV event, the Contractor SHALL provide log/record of the event, including but not limited to individual test results, defects found,		
		requirement coverage, test execution durations, deviations during execution and sign-off for each result by both the Contractor and		
		Purchaser.		
SOW	[SOW-654]	The Contractor shall correct and re-test all failures with severity "Critical" or "Major".		
SOW	[SOW-655]	The Contractor shall record the agreed action plan for failures with severity "Moderate", "Minor" and "Cosmetic".		
SOW	[SOW-656]	The Contractor shall fix and demonstrate that the recorded issues or faults are fixed and working correctly. The next contractual test activity		
		shall not start until all the findings are fixed to the Purchaser's satisfaction.		
SOW	[SOW-657]	At the end of the project, the Contractor SHALL provide the final version of all artefacts (regardless of format) created during the execution of		
		all TVV activities.		
SOW	[SOW-658]	The Contractor SHALL obtain the approval of the Purchaser regarding the environments the formal events will take place on and in requesting		
		the approval, indicate what support is required from the Purchaser to configure and prepare the environment. This includes any data from		
		the Purchaser required for the test event. The Reference Environment Configuration SHALL be formally controlled using configuration		
		management tools, and each baseline that will enter into a contractual event SHALL be delivered to the Purchaser for approval prior to TRR.		
SOW	[SOW-659]	The Contractor SHALL ensure that all test/reference environments are under proper configuration management, especially configuration		
		control. The Configuration Management toolset and process SHALL be approved by the Purchaser.		
SOW	[SOW-660]	The Contractor may request a Test Waiver if the Contractor has previously successfully completed qualification testing to national, or		
		international standards for assemblies, subassemblies components or parts. The Purchaser, after review of test waivers and analysis of their		
		impact, reserves the right to require test and certification of the modified equipment at no cost to the Purchaser. The Purchaser has the right		
		to reject any test Waiver.		
SOW	[SOW-661]	In respect to a requested waiver, the Contractor SHALL certify that the test environment to be implemented is identical to that which was		
		originally used for testing, or advise the Purchaser of design/construction changes which affect form, fit or function.		
SOW	[SOW-662]	The Contractor SHALL record and log all waiver requests along with their resolution submitted for the Purchaser's approval.		
SOW	[SOW-663]	In the event of failed TVV event and the need to return to a site for re-testing; travel and per diem expenses of NATO personnel SHALL be		
	(borne by the Contractor		
SOW	[SOW-664]	The Contractor SHALL use the Purchasers' categorization nomenclature for all defects and non-compliances	┝────┣─	
SOW	[SOW-665]	Should a failure be identified during a TVV event/activity, a defect SHALL be recorded in the Agency's' test management and defect		
		management systems. Once the event has concluded, the defect SHALL be reviewed during the event review meeting to agree on the		
		severity, priority and category. The event test report SHALL then report the disposition of all defects recorded during the event and the		
		defect management system SHALL be updated accordingly. Classification SHALL follow Table 16: Definitions for Defect Categorization, Table		
		17: Classification of defects based on severity, Table 18: Priority Classes for Defect Classification and Table 19: Deficiency Categories .		
SOW	[SOW-666]	According to their severity, defects SHALL be classified as one of the following in Table 17: Classification of defects based on severity:		
30 W	[]			
SOW	[SOW-667]	According to their priority, defects SHALL be classified as one of the following in Table 18: Priority Classes for Defect Classification:		

SOW	[SOW-669]	The Contractor SHALL respect requirements below for every site survey.		
SOW	[SOW-670]	For each site survey, the Contractor SHALL conduct site survey preparatory work, visit each site subject to site survey, survey relevant		
		facilities, interview site personnel, and collect data to support project activities.		
SOW	[SOW-671]	The Contractor SHALL ensure coherence between site survey results and project documentation (e.g., System Design Documentation		
		Package, SIP) at any time. The Contractor SHALL update project documentation accordingly.		
SOW	[SOW-672]	The Contractor SHALL prepare a SSWB of checklists, fill-in forms, installation sketches, contact information, installation specifications, and		
		site data to be collected by the Contractor during the site survey, and any other documentation required to perform site surveys.		
SOW	[SOW-673]	The Contractor SHALL make the SSWB available for Purchaser review and comment before the first site survey, and SHALL maintain and		
		update as necessary during the site survey process.		
SOW	[SOW-674]	Upon acceptance of the SSWB by the Purchaser, the Contractor SHALL distribute the SSWB to the site(s) for preparation of the Site Surveys.		
		This approach will enable a better preparation by the sites.		
SOW	[SOW-675]	The Contractor's site survey(s) and installation sequence and dates reflected in the Project Implementation Plan SHALL be co-ordinated by		
		the Contractor with the Purchaser and the Site POC to accommodate site-specific requirements, exercises, holiday periods, and other		
		considerations.		
SOW	[SOW-676]	The Contractor SHALL prepare and provide an Introductory Briefing as an introduction to the IEG-C project, which will not assume other than		
		basic knowledge of the project by the site personnel, covering at least:		
SOW	[SOW-677]	At the beginning of the site survey the Contractor SHALL provide a presentation to the local site personnel on the objectives and conduct of		
		the site visit in the context of the overall IEG-C project.		
SOW	[SOW-678]	During the Site Surveys activities the Contractor SHALL determine the necessary installation preparations and support arrangements and		
		collect all system implementation-relevant information. This SHALL include:		
SOW	[SOW-679]	After the Site Survey the Contractor SHALL present to the Purchaser his site engineering and installation drawing(s) and identify actions and		
		follow-on activities.		
SOW	[SOW-680]	The Contractor SHALL determine if site-specific equipment is required at a location as part of any Site Survey performed under this Contract.		
SOW	[SOW-681]	If site-specific equipment is required, the Contractor SHALL issue an Engineering Change Proposal (ECP).		
SOW	[SOW-682]	In the ECP, the Contractor SHALL identify any requirements of the IEG-C System Design Specification it believes will not be met due to		
		differences between the site-specific equipment and the standard baseline.		
SOW	[SOW-683]	If these exceptions to the IEG- System Design Specification are accepted by the Purchaser and incorporated into the Contract as formal		
		amendments, the Contractor is not required to demonstrate, as part of its Site Activation work, that the associated System Design		
		Specification requirement has been met. In such a case, the Contractor SHALL update the System Design Specification to reflect site-specific		
6011/	[60]14 60.4]	situations.		
SOW	[SOW-684]	The Contractor SHALL identify all facilities support, including modifications or additions, required. After coordination with the Purchaser, this		
		notification SHALL be in the form of a letter to the site POC, with a copy to the Purchaser, accompanied by engineering drawings, checklists,		
		or any other supporting information. Facilities support issues that represent Medium or High risk items SHALL be reflected in the Risk Log.		
SOW	[SOW-685]	The Contractor SHALL produce and deliver a Site Survey Report for each site. detailing its findings from the site survey, identifying all required		
3077	[5011 005]	Purchaser and Contractor actions to prepare for, conduct, or support IEG-C installation and activation, and identifying the type of training		
		courses required and the number of Purchaser staff to be trained for each course.		
SOW	[SOW-686]	The Contractor SHALL accurately and formally document the findings of the Site Survey and the preparatory work required from the Site.		
	[0011 000]			
SOW	[SOW-687]	After the Site Survey the Contractor SHALL present to the Purchaser his site engineering and installation drawing(s) and identify actions and		
		follow-on activities.		
SOW	[SOW-688]	The Contractor's Site Survey Reports SHALL be provided within one week after the respective Site Survey is completed.		
SOW	[SOW-689]	At minimum, the Site Survey Report SHALL include:		
SOW	[SOW-690]	At the end of the site survey the Contractor SHALL provide an out brief on the outcome of the site survey and identify actions and follow-on		
		activities.		
	-			
SOW	[SOW-691]	The platform SHALL demonstrate compliance with the NATO Security Policy and supporting directives and IEG-C security accreditation		

SOW	[SOW-692]	The Contractor SHALL be responsible to follow, implement and conform to the Pre-Accreditation Activities, and the Accreditation Process as defined and documented in [AC/35-D/2005-REV3] and Security Accreditation Plan (SAP) for IEG-C in order to obtain the required security		
		accreditation statement(s) for the interconnections via IEG-C during each phase of the IEG-C project.		
SOW	[SOW-693]	The Contractor SHALL be required to carry out and meet the terms of the Security Accreditation Authority to perform any Post-Accreditation		
		activities, such as periodic re-assessments of the security risks and periodic inspections up to the time of handover of the IEG-C to the CIS		
		Provider (CISP).		
SOW	[SOW-694]	The Contractor SHALL obtain Approval for Testing (AfT) and/or Interim Security Accreditation (ISA) which are necessary during the stages of		
		the implementation, tests and trials of the IEG-C project. This does not diminish the requirement for the Contractor to obtain the full Security		
		Accreditation statement for each interconnection via IEG-C.		
SOW	[SOW-695]	The Contractor SHALL take action to follow, carry out the necessary work and to implement the advice, instructions and changes given by the		
		SAA and local SAA's for the IEG-C.		
SOW	[SOW-696]	The Contractor SHALL produce security accreditation documentation and/or provide inputs to documents in support of the 3.7 Acceptance of		
		IEG-C security accreditation package, as detailed in Security Accreditation Plan (SAP) for IEG C		
SOW	[SOW-697]	The Contractor SHALL produce all security accreditation documentation or inputs to documents using security document templates provided		
		by the Purchaser. These will be provided after the Contract Award.		
SOW	[SOW-698]	The Contractor SHALL be responsible to implement the activities described in the SAP as approved by the SAA.		
SOW	[SOW-699]	The Contractor SHALL update the initial CIS description document based on the System Description in Section 1.2 provided by the Purchaser,		
		including all relevant information taken from the System Design Documentation Package and adapted to the SAA needs.		
SOW	[SOW-700]	The Contractor SHALL address Purchaser comments (including SAA comments) to achieve CIS description endorsement by the SAA.		
SOW	[SOW-701]	The Contractor SHALL maintain the CIS description during the project.		
SOW	[SOW-702]	The Contractor SHALL develop the SRA in accordance with Guidelines for Security Risk Management of CIS (Ref. [AC/35-D/1017-REV3]).		
SOW	[SOW-703]	The Contractor SHALL use the NATO template [SRA template] to document the results of the SRA.		
SOW	[SOW-704]	The Contractor SHALL identify areas of the IEG-C requiring safeguards and countermeasures to comply with NATO Security Policy and		
		supporting directives and [NS Reference Baseline]. The decision on specific security mechanisms will be based on evidence and results		
		produced by the Security Risk Assessment.		
SOW	[SOW-705]	The Contractor SHALL consider any change to be within the technical and financial scope of this Contract whenever the implementation of		
		security measures results in the modification of the design (without introducing additional components), other documentation requirements,		
		and changes to configuration of components; no ECP SHALL be generated.		
SOW	[SOW-706]	The Contractor SHALL raise an ECP whenever the implementation of security measures results in a requirement for additional components to		
		be procured for implementation that could not be reasonably foreseen beforehand.		
SOW	[SOW-707]	The Contractor SHALL address Purchaser comments (including SAA comments) to achieve SRA report approval by the SAA.		
SOW	[SOW-708]	The Contractor SHALL maintain the SRA report during the project.		
SOW	[SOW-709]	The Contractor SHALL produce a generic System Interconnection Security Requirement Statement (SISRS) for IEG-C to include the minimum		
		requirements mandated by NATO Security Policy and supporting directives and security measures to counter the risks identified in the IEG-C		
		SRA.		
SOW	[SOW-710]	The Contractor SHALL produce the SISRS template for IEG-C using and following the guidance provided by the Purchaser.		
SOW	[SOW-711]	The Contractor SHALL ensure that each security requirement in the SISRS have a unique identifier which is crossed referenced to the security		
5011	[5011 / 11]	mechanism (Ref. [NS Reference Baseline]) addressing the requirement.		
SOW	[SOW-712]	The Contractor SHALL describe in detail possible information exchange scenarios and relevant security mechanisms implemented.		
SOW	[SOW-712]	The Contractor SHALL address Purchaser comments (including SAA comments) to achieve generic SISRS approval by the SAA.		
SOW	[SOW-714]	The Contractor SHALL maintain the generic SISRS during the project.		
SOW	[SOW-715]	The Contractor SHALL maintain the generic sisks during the project. The Contractor SHALL produce specific procedures for centralized management of IEG-C and include them in IEG-C-specific section of the		
50 00	[30 10-7 13]	Security Operating Procedures (SecOPs) for Gateway Services Section.		
SOW	[SOW-716]	The Contractor SHALL address Purchaser comments (including SAA comments) to part of the SecOPs related to IEG-C.		
	[SOW-716]		 	
SOW	[3010-/1/]	The Contractor SHALL produce the Security Test & Verification Plan (STVP) for the IEG-C using the NATO template [STVP template], defining		
		the set of test procedures to prove that the security mechanisms designed into the IEG-C enforce the security requirements identified in the		
		IEG-C SISRS. Each test procedure SHALL have unique ID and refer to at least one requirements from IEG-C SISRS and at least one Security Mechanism (from [NS Reference Baseline]).		

SOW	[SOW-718]	The Contractor SHALL provide traceability matrix to ensure every security test to be cross referenced to the corresponding security		
		requirement from SISRS as well as to the tested security mechanisms.		
SOW	[SOW-719]	The Contractor SHALL ensure all security mechanisms of the IEG-C to be planned for testing.		
SOW	[SOW-720]	The Contractor SHALL address Purchaser comments (including SAA comments) to achieve STVP approval by the SAA.		
SOW	[SOW-721]	The Contractor SHALL maintain the STVP during the project.		
SOW	[SOW-722]	Where necessary due to local security requirements, the Contractor SHALL develop local version of STVP to address local security requirements (e.g. from [AD 070-005]).		
SOW	[SOW-723]	For each IEG-C site, the Contractor SHALL execute security testing in accordance with STVP (or its local version, where relevant) and in coordination with the Purchaser.		
SOW	[SOW-724]	For each IEG-C site the Contractor SHALL generate a Security Test and Verification Report, containing results of all security tests specified in the STVP, using the STVR template.		
SOW	[SOW-725]	The Contractor SHALL ensure security test identifiers are preserved in the Report as defined in the STVP or relevant local STVP.		
SOW	[SOW-726]	The Contractor SHALL complete Statement of Compliance for each interconnection via IEG-C. The Statement of Compliance SHALL address local security requirements, where applicable.		
SOW	[SOW-727]	The Contractor SHALL ensure draft versions of security documents are provided by the PDR (EDC+3MO) and final versions by the CDR (EDC+6MO).		
SOW	[SOW-728]	The Contractor SHALL ensure implementation plans are flexible to take account of the time required for accreditation.		
SOW	[SOW-729]	The Contractor SHALL undertake the work identified in the column 'Contractor Responsibility' in Table 18: Security Accreditation Documentation and Contractor Responsibility below:		
SOW	[SOW-730]	The Contractor SHALL establish, execute, document and maintain an effective Quality Assurance (QA) programme throughout the Contract's lifetime.		
SOW	[SOW-731]	The Contractor's QA effort SHALL apply to all services and all products (both management products and specialist products) to be provided by the Contractor under this contract (this includes all hardware and software – COTS as well as developed for this project – documentation and supplies that are designed, developed, acquired, maintained or used, including deliverable and non-deliverable items).		
SOW	[SOW-732]	The Contractor's QA effort SHALL ensure that procedures are developed, implemented and maintained to adequately control the design, development, production, purchasing, installation, inspection, testing, configuration management and customer support of all services and all products (both management products and specialist products), in accordance with the requirements of this Contract.		
SOW	[SOW-733]	The Purchaser, in this contract, applies the NATO Standardisation Agreement, STANAG 4107 "Mutual Acceptance of Government Quality Assurance and usage of the Allied Quality Assurance Publications (AQAP)" (see 2.1.2) which the Contractor SHALL herewith accept and adhere to.		
SOW	[SOW-734]	The Purchaser may delegate the Quality Assurance to the appropriate Government Quality Assurance Authority (GQAA) in accordance with STANAG 4107. The Purchaser, through its own Quality Assurance, however, will retain the overall supervisory and liaison authority concerning all Quality related matters, and, for this purpose, will use its own QA Personnel.		
SOW	[SOW-735]	The term "NATO Quality Assurance Representative" (NQAR) SHALL apply to any of the Purchaser appointed Quality Assurance Representative, whether nominated by the GQAA or by Purchaser QA. During the entire contract implementation, the NQAR(s) within their own rights, defined in the contract applicable AQAPs, SHALL assure the Contractor's and Sub-Contractor's compliance with all Quality related contractual requirement.		
SOW	[SOW-736]	The term "Contractor Quality Assurance Representative" (CQAR) SHALL apply to any of the Contractor appointed Quality Assurance Representative. That person SHALL be designated as the Contractor's QA Representative and point of contact for interface with and resolution of quality matters raised by the NCI Agency or his delegated NQAR and identified in the Quality Assurance Plan.		
SOW	[SOW-737]	The Contractor SHALL be responsible for controlling product quality and for offering to the NQAR(s) for acceptance only those supplies and services which conform to contractual requirements and, when required, for maintaining and furnishing objective evidence of this conformance.		
SOW	[SOW-738]	The NQAR(s) is (are) responsible for determining that contractual requirements have been complied with, prior to the acceptance of the services.		
SOW	[SOW-739]	The Contractor SHALL give written notice to the NQAR(s) at least four weeks in advance that the services are being presented for inspection, testing and acceptance. Testing SHALL only be permitted by using Purchaser approved test procedures and plans.		

SOW	[SOW-740]	The Contractor SHALL establish, document and maintain a Quality Management System in accordance with the requirements of ISO 9001:2015.	
SOW	[SOW-741]	The Contractor's and Sub-Contractor's QMS relevant to performance under this contract SHALL be subject to continuous review and	
SOW	[SOW-742]	surveillance by the cognizant NQAR(s). The Contractor SHALL include in orders placed with his Sub-Contractor(s) and Supplier(s), the QMS requirements necessary to ensure the	
30 W	[3010-742]	supplies and services covered by the Sub-contract(s) and/or Purchase Orders conform to the requirements of the prime contract. As	
		required, STANAG 4107 SHALL be specified.	
SOW	[SOW-743]	The Contractor SHALL specify in each order placed with his sub-Contractor(s) and Supplier(s), the Purchaser's and his NQAR(s) rights of access	
		to all premises where contractual work is performed, in order to carry out audits, inspections, tests and other functions as may be required	
		by the NQAR(s).	
SOW	[SOW-744]	The Contractor's QA effort SHALL be described in detail in a Quality Assurance Plan (QAP), which SHALL clearly indicate the QA activities,	
		responsibilities, and checks for the Contractor and any Sub-Contractors.	
SOW	[SOW-745]	All versions of the QAP SHALL be configuration controlled and provided to the Purchaser for acceptance.	
SOW	[SOW-746]	The acceptance of the QAP by the Purchaser signifies only that the Purchaser agrees to the Contractor's approach in meeting the requirements. This acceptance in no way relieves the Contractor from its responsibilities to meet the requirements stated in this Contract.	
SOW	[SOW-747]	The Contractor SHALL review his QA programme periodically and audit it for adequacy, compliance and effectiveness.	
SOW	[SOW-748]	The Contractor SHALL ensure that all contractual requirements, including NATO supplements, are included in internal audits.	
SOW	[SOW-749]	The Contractor SHALL inform the NQAR(s) of deficiencies identified during internal audit unless otherwise agreed between the NQAR and/or	
		the Purchaser and the Contractor.	
SOW	[SOW-750]	The Contractor SHALL include a risk management section within the QAP including the risks connected to the subcontractors of the	
	[60]4/ 754]	Contractor.	
SOW	[SOW-751]	The Contractor SHALL agree to provide all necessary assistance to the NQAR.	
SOW	[SOW-752]	The Contractor SHALL make his quality records, and those of his subcontractors, available for evaluation by the NQAR throughout the duration of the Contract.	
SOW	[SOW-753]	The Contractor SHALL use the review processes described in the Configuration Management Plan (CMP) to manage changes to the QAP.	
SOW	[SOW-754]	The Contractor SHALL update the document, as required, from the delivery date of the initial QAP through Final Operating Capability (FOC),	
		under Configuration Management. The Contractor SHALL provide a copy of each new version of the QAP to the NQAR and the new version	
		SHALL be approved by the Purchaser.	
SOW	[SOW-755]	If the Contractor becomes aware at any time before acceptance by the Purchaser that a defect exists in any supplies, the Contractor SHALL	
		coordinate with the Purchaser and promptly correct the defect.	
SOW	[SOW-756]	The Contractor SHALL implement a quality/product assurance risk log/action tracking system, which identifies all the major/minor non	
	[60)4/ 757]	conformity raised during the life cycle of this Contract.	
SOW	[SOW-757]	The Contractor, through its Corrective Action System, SHALL track all reported and recorded problems and deficiencies until their closure and clearance.	
SOW	[SOW-758]	The Contractor SHALL notify the Purchaser of proposed action, resulting from Review Output that will affect compliance with contractual	
50 **	[50 17 7 56]	requirements.	
SOW	[SOW-759]	The Contractor SHALL demonstrate that all the non-conformities are solved and all defects are closed before the product acceptance.	
SOW	[SOW-760]	The Contractor SHALL issue and implement documented procedures which identify, control and segregate all non-conforming products.	
	[Documented procedures for the disposition of non-conforming product are subject to approval by the Purchaser when it can be shown that	
		they do not provide the necessary controls.	
SOW	[SOW-761]	The Contractor SHALL notify the Purchaser of non-conformities and corrective actions required, unless otherwise agreed with the Purchaser.	
SOW	[SOW-762]	When the Contractor establishes that a subcontractor or a Purchaser Furnished Equipment (PFE) product is unsuitable for its intended use, he	
	[]	SHALL immediately report to and coordinate with the Purchaser the remedial actions to be taken.	
SOW	[SOW-763]	The Contractor SHALL ensure that only acceptable products, intended for delivery, are released. The Purchaser reserve the right to reject non-	
		conforming products.	

SOW	[SOW-764]	The Contractor SHALL document the Corrective Action System in the QAP.		
SOW	[SOW-765]	The Contractor SHALL document the Contentive Action System in the QAP.		
SOW	[SOW-766]	The Contractor SHALL describe the process used for detect management in the QAP. The Contractor SHALL deliver all the CoCs for COTS software (including firmware) and hardware released by the COTS Vendors.		
SOW	[SOW-767]	The Contractor SHALL provide a CoC at release of product to the Purchaser unless otherwise instructed.		
SOW	[SOW-768]	The Contractor SHALL provide a Coc at release of product to the viciniser diffession of the wise instructed.		
SOW	[SOW-769]	The Contractor SHALL also make available to the Purchaser for review upon request, associated records and documentation, including but		
30 W	[30/09]	not limited to, control, authorization for use, calibration, validation, qualification, as applicable, per respective contract requirement.		
SOW	[SOW-770]	The Contractor SHALL implement a CM process as referred to in [STANAG 4427, 2014], [ACMP-2000, 2017], [ACMP 2009, 2017] and [ACMP-		
		2100,2017] to carry out the Configuration Management functions as described in this SOW (configuration item identification, configuration		
		control, configuration status accounting, and configuration audit and verification).		
SOW	[SOW-771]	The Contractor SHALL ensure that an effective Configuration Management organization is established to implement and manage the		
		Configuration Management processes throughout the duration of this contract.		
SOW	[SOW-772]	The Contractor SHALL create and maintain four Configuration Baselines, as follows (see Figure 3). The Contractor shall create multiple		
		instances of one type of the configuration baseline to adjust to the agile delivery approach, as required.		
		• Functional Baseline (FBL, or "as required"),		
		Allocated Baseline (ABL, or "as designed"),		
		• Product Baseline (PBL, or "as built"),		
		Operational Baseline (OBL, or "as delivered", or "as deployed").		
SOW	[SOW-773]	Under the CM program the Contractor SHALL maintain and update all project CIs as required by changes within the project or external to the		
	[0014] 774]	project throughout the duration of the contract.		
SOW	[SOW-774]	The Contractor SHALL ensure that all system configuration and baselines will be detailed in a System Version Definition Document (SVDD);		
	[0014 775]	see Section 15.7.		
SOW	[SOW-775]	The Contractor SHALL ensure that there is full traceability through all baselines back to the functional baseline.		
SOW	[SOW-776]	The Contractor's developed baselines SHALL be encapsulated and maintained by the Contractor in a CM database (CMDB) established by the		
SOW	[[[]]]	Contractor as specified under Configuration Management Tools.		
SOW	[SOW-777]	The Contractor SHALL develop and derive the FBL from the IEG-C SRS and SHALL establish the FBL at the successful completion of the SRR		
SOW	[SOW-778]	(EDC+2MO) with the approved updated SRS. The Contractor SHALL maintain an up-to-date version of the Functional Baseline in the CMDB and ensure the relevant project documentation		
3000	[5010-778]	such as Requirements Traceability Matrix (RTM) is updated based on the approved FBL. The information SHALL be integrated into the NCI		
		Agency DOORS database.		
SOW	[SOW-779]	The Contractor's developed design in the ABL SHALL meet the functional and non-functional requirements allocated in the FBL.		1
SOW	[SOW-780]	The ABL set of documents and artefacts SHALL contain, but is not limited to, the following documents:		
SOW	[SOW-781]	The Contractor's initial ABL SHALL be established first at the successful completion of the PDR (EDC+3MO) and SHALL be finally accepted at		
		the successful completion of CDR (EDC+6MO).		
SOW	[SOW-782]	The Contractor SHALL maintain and update the ABL configuration during the System Baseline Reviews (SBR).		
SOW	[SOW-783]	The Contractor SHALL ensure its PBL meets the functional and non-functional requirements allocated in the FBL and the design of the ABL.		
SOW	[SOW-784]	The Contractor SHALL ensure its PBL products are distinguished in documentation, software, hardware/equipment and services.		
SOW	[SOW-785]	The Contractor SHALL ensure the products of its PBL contain, but are not limited to, the following:		1
SOW	[SOW-786]	The Contractor SHALL ensure its PBL (supporting) documentation products contain, but are not limited to:		1
SOW	[SOW-787]	The Contractor SHALL include the SDS (including the RTM), the Test Plan, and any other documentation deemed appropriate by the		1
	[]	Contractor, in accordance with provisions of IEEE 12207, to ensure requirements are reflected in the system during development and		
		integration, can be demonstrated through a comprehensive set of tests, and can be delivered in the form of the Product Baseline.		
6011/	[[0]]			
SOW	[SOW-788]	The IEG-C PBL SHALL be initially established before the testing events and SHALL be updated after the changes applied based on the		
5014/	[[[]]]	outcomes of the testing events.		ł
SOW	[SOW-789]	The Contractor SHALL include in the PBL release package the following elements, as a minimum all items described in Table 19: Content for		
		Product Baseline Release Package		

SOW	[SOW-790]	The Contractor's developed OBL SHALL be initially established after successful completion of the PSA (EDC+20mo) and then finally established after successful completion of FSA. It reflects the "as-deployed" configuration of the system.		
SOW	[SOW-791]	The Contractor's OBL SHALL be established site-specific, as applicable.		
SOW	[SOW-792]	The Contractor's OBL SHALL contain, but is not limited to:		1
SOW	[SOW-793]	IEG-C Baselines SHALL be given a major release number and a minor release number comprising an X.X notation. The complete baseline		1
5011	[5011 / 55]	identifier SHALL include the specific baseline identifier (i.e. FBL, ABL, PBL, and OBL), site identification (if applicable) and security domain		
		difference (if applicable). Final numbering scheme for the baseline identification may be modified with Purchaser agreement, and it SHALL be		
		proposed for Purchaser approval within the CM Plan.		
SOW	[SOW-794]	The Contractor SHALL update and re-release the PBL documentation outlined in Table 4, as required.		
SOW	[SOW-795]	The Contractor SHALL provide a CMP tailored to the requirements of the proposed technical solution.		
SOW	[SOW-796]	The Contractor's CMP SHALL be structured as a living document subject to revisions and updates, as required.		
SOW	[SOW-797]	The Contractor SHALL place the plan under configuration control prior to its implementation and for the life of the Contract.		
SOW	[SOW-798]	In producing the CMP, the Contractor SHALL define the organisation and procedures used to configuration manage the functional and		
	(*******)	physical characteristics of CIs, including interfaces and configuration identification documents.		
SOW	[SOW-799]	The Contractor SHALL ensure that all required elements of CM are applied in such a manner as to provide a comprehensive CM process.		
SOW	[SOW-800]	The Contractor's CM Plan SHALL be compatible and consistent with all other plans, specifications, standards, documents and schedules.		
SOW	[SOW-801]	The Contractor SHALL propose in the CMP detailed configuration control procedures.		
SOW	[SOW-802]	All Contractor and Purchaser activities and milestones related to CM SHALL be identified and included in the PMS of the PMP.		
SOW	[SOW-803]	The Contractor SHALL establish and maintain product-based planning which SHALL include as a minimum:		
SOW	[SOW-804]	The Contractor's CM Plan SHALL address all disciplines within this Section and SHALL as a minimum include, but not be limited to the		
		following Sections:		
SOW	[SOW-805]	The Contractor SHALL divide the products and specialist products into Configuration Items (Cls).		
SOW	[SOW-806]	The Contractor's CI structure SHALL show the relationships between the lower level Baselines and CIs.		
SOW	[SOW-807]	The Contractor SHALL propose appropriate CIs in the CM Plan including an explanation of the rational and criteria used in the selection		
		process, based on the criteria for selection of CIs as detailed in [ACMP 2009, 2017].		
SOW	[SOW-808]	The Contractor's CIs SHALL be chosen in a way to assure visibility and ease of management throughout the development effort and the		
		support to the OBL after acceptance.		
SOW	[SOW-809]	All Contractor's COTS, adapted, and developed software SHALL be designated as CIs.		
SOW	[SOW-810]	Where Contractor's COTS can be installed in a modular fashion, the description of the CI SHALL unambiguously identify the complete list of		
		installed components.		
SOW	[SOW-811]	The Contractor SHALL designate as CIs all hardware elements (if any) down to the maintenance significant item level.		
SOW	[SOW-812]	The Contractor SHALL ensure the level of granularity for the CI selection reaches at a minimum:		
SOW	[SOW-813]	The Hardware CI attributes SHALL include, but is not limited to, the MDS information,(Optional);		
SOW	[SOW-814]	The Software CI attributes SHALL include, but is not limited to, the [ACMP 2009, 2017] definitions;		
SOW	[SOW-815]	Any Documentation CI that is not linked to a Software CI or Hardware CI (optional) SHALL include, but is not limited to, the Contract SSS		
		attributes.		
SOW	[SOW-816]	The Contractor SHALL be responsible for issuing in a timely manner all approved changes and revisions to the functional, development and		
		PBL documents included in the Contract. This includes changes originated both by the Contractor and the Purchaser.		
SOW	[SOW-817]	Where a change affects more than one document, or affects documents previously approved and delivered, the Contractor SHALL ensure		
		that the change is properly reflected in all baseline documents affected by that change.		
SOW	[SOW-818]	The Contractor SHALL appropriately reflect all design changes in the technical documentation by the issue of appropriate changes or revisions.		
SOW	[SOW-819]	The Contractor SHALL provide all such changes/revisions to the Purchaser.		
SOW	[SOW-820]	The Contractor SHALL be fully responsible for the Configuration Control of all baselines and CIs in accordance with [ACMP 2009, 2017] and		
		[ACMP-2000, 2017].		

SOW	[SOW-821]	The Contractor SHALL define the responsibilities and procedures used within the Contractor's organization for configuration control of	
3011	[5011 021]	established CI, and for processing changes to these CI.	
SOW	[SOW-822]	The Contractor SHALL define the Configuration Baseline Change procedures and SHALL submit Notice of Revision or Request for Deviations	
3011	[5011 022]	(RFD) and Request for Waivers (RFW) when required and approved by the Purchaser.	
SOW	[SOW-823]	The Contractor SHALL provide read-only access to the Purchaser to audit and control its productions environments and configuration	
3011	[5011 025]	management tools (for software, documentation and hardware, if applicable).	
SOW	[SOW-824]	The Contractor SHALL process changes to the his developed baselined CIs as either Class I or Class II ECPs as defined in [ACMP 2009, 2017]	
3011	[5011 024]	and the change requirements specified.	
SOW	[SOW-825]	The Contractor SHALL use the configuration control procedures specified in the CM Plan for the preparation, submission for approval	
	[0011 020]	implementation and handling of ECPs to baselined Cls.	
SOW	[SOW-826]	When submitting ECPs, the Contractor SHALL assign a priority rating of Emergency, Urgent or Routine Extensions to the target times for	
		processing.	
SOW	[SOW-827]	Changes to baseline CIs SHALL be processed as either Class I or Class II ECPs as defined in [ACMP 2009, 2017].	
SOW	[SOW-828]	Class I ECPs SHALL have to be mutually agreed upon by the Contractor and Purchaser.	
SOW	[SOW-829]	Prior to implementation, all Class II ECPs SHALL be submitted by the Contractor to the Purchaser for review and classification concurrence.	
SOW	[SOW-830]	If the Purchaser's representative does not concur in the classification, Class I ECP procedures SHALL be applied by the Contractor and the ECP	
		and then formally submitted to the Purchaser for approval or rejection.	
SOW	[SOW-831]	Extensions to the target times for processing Class I ECPs SHALL be mutually agreed upon by the Contractor and Purchaser.	
SOW	[SOW-832]	The Contractor SHALL not implement Class I ECPs before Purchaser approval.	
SOW	[SOW-833]	The Contractor SHALL reflect in the technical documentation all design changes appropriately by the issue of appropriate documentation	
		revisions.	
SOW	[SOW-834]	The Contractor SHALL provide all supporting documentation and information to detail the impact of the change in design, specification,	
		maintenance and support, documentation, cost, schedule, and security, as requested by the Purchaser.	
SOW	[SOW-835]	The Contractor SHALL propose in the CM Plan an ECP format based on the requirements in [ACMP 2009, 2017].	
SOW	[SOW-836]	The Contractor SHALL include in an ECP as a minimum, the following information:	
SOW	[SOW-837]	After the completion of Deployment Authorization (DA at EDC+20mo), the Contractor SHALL provide the ECP's for proposed changes which	
		will also require the new approval for the DA. For that purpose, the Contractor SHALL provide all the information necessary and support the	
		Purchaser Project Manager by any means to obtain the Deployment Authorization based on the proposed change and new baseline.	
SOW	[SOW-838]	The Contractor SHALL comply and support Purchaser's internal Change Management Process in order to obtain the Deployment	
3011	[5011 656]	Authorization Approval through the Change Advisory Board (CAB).	
SOW	[SOW-839]	The Contractor SHALL support the Purchaser in preparing the Request For Change (RFC) to meet the requirements of the Purchaser's Change	
3011	[0011 000]	Evaluation process.	
SOW	[SOW-840]	The Contractor SHALL provide all necessary documentation and information for the successful completion of the Deployment Authorization.	
SOW	[SOW-841]	The contractor SHALL assist the Purchaser with the installation and configuration the system/application in accordance with the Contractor	
		provided Installation and Configuration Manual(s).	
SOW	[SOW-842]	The Contractor SHALL conduct a Functional Configuration Audit (FCA) and deliver the associated FCA report	
SOW	[SOW-843]	After the successful testing of SIT/SAT/UAT and Security tests, the Contractor, through the NATO assigned PM, SHALL submit the baseline to	
		the Purchaser IT Change Management process by submitting the RFC.	
SOW	[SOW-844]	The NATO assigned PM SHALL seek the authorization of deployment on the relevant targeted NATO networks. The Contractor SHALL provide	
		the required final RFC documents (i.e. ECP and supporting documentation) described in SOW 12.6.	
SOW	[SOW-845]	The RFC SHALL be submitted to Purchaser's Change Advisory Board (CAB) for screening. The CAB SHALL decide if further or other tests are	
		required. The latest Purchaser approved baseline for the RFC process SHALL be used.	
SOW	[SOW-846]	If the Contractor is produced a new build or baseline version the Contractor SHALL follow Purchaser's internal Change Management process	
		and test activities as deemed necessary by the CAB.	
SOW	[SOW-847]	The Contractor SHALL note that system implementation activities in operational environment will not start until the DA milestone is approved	
		by the Purchaser.	

SOW	[SOW-848]	The Contractor SHALL provide and update all related baseline documentation and traceability to reflect the modifications triggered by the			
6014	[2014] 0.40]				
SOW	[SOW-849]	The Contractor, if requested by the Purchaser SHALL install the new baseline or other instances of new baselines for Security and other Purchaser related tests.			
SOW	[SOW-850]	The Contractor SHALL supply the documents in Final form listed in Table 20 - System Submission Requirements Matrix (SSRM) for inclusion in			
		the Purchaser Release Package for the RFC.			
SOW	[SOW-851]	If required, the Contractor SHALL prepare, handle, and submit for Purchaser's approval, RFDs and RFWs as defined in [ACMP 2009, 2017].			
SOW	[SOW-852]	The Contractor SHALL propose in the CM Plan a RFD and RFW format based on the requirements in [ACMP 2009, 2017].			
SOW	[SOW-853]	The Contractor SHALL be aware that permanent departures from a baseline SHALL be accomplished by ECP action rather than by RFD/RFW.			
SOW	[SOW-854]	The Contractor SHALL be fully responsible for the CSA for all CIs in accordance with [ACMP 2009, 2017].			
SOW	[SOW-855]	Contractor SHALL prepare and deliver the CSA reports for each milestone and as requested by the Purchaser.			
SOW	[SOW-856]	The Contractor SHALL propose the format of the CSA report in the CM Plan for Purchaser's approval.			
SOW	[SOW-857]	The Contractor SHALL deliver CSA reports to the Purchaser both as part of management and specialist products in this contract and also as standalone documents at the Purchaser's request.			
SOW	[SOW-858]	At the end of the Contract, the Contractor SHALL deliver a set of final CSA reports for each CI or set of CI's in both hard copy and in electronic media.			
SOW	[SOW-859]	Upon request from the Purchaser, the Contractor SHALL support configuration audits to demonstrate that the actual status of all CIs matches the authorised state of CIs as registered in the CSA reports according to [ACMP 2009, 2017].			
SOW	[SOW-860]	The Contractor SHALL support the FCA and PCA by providing the required Baseline Documentation and answering questions from the Purchaser's Auditor.			
SOW	[SOW-861]	The Contractor SHALL draft a Configuration Audit Report for the FCA and PCA that summarises the results for the Purchaser's approval.			
SOW	[SOW-862]	The Contractor SHALL solve any deficiencies found during the Configuration Management Audits within the agreed timeframe and update the baseline accordingly.			
SOW	[SOW-863]	The Contractor SHALL provide the initial version of his ABL and PBL to the Purchaser for acceptance.			
SOW	[SOW-864]	The Contractor SHALL keep the contents of the ABL and PBL under Configuration Control to reflect the progress of the project activities.			
		······································			
SOW	[SOW-865]	The Contractor SHALL create and maintain a CMDB that persists the CIs attributes, (inter-) relationships, and Configuration Baselines.			
SOW	[SOW-866]	The Contractor SHALL create or use a COTS software to maintain the CMDB that persists the Configuration Items (CIs) attributes, (inter-)			
		relationships and Configuration Baselines.			
SOW	[SOW-867]	The Contractor SHALL ensure that the Configuration Baselines and CIs are persistently stored, maintained and managed in the CMDB.			
SOW	[SOW-868]	The Contractor SHALL keep the CMDB consistent and updated. The Contractor SHALL keep the CMDB consistent and updated.			
SOW	[SOW-869]	The Contractor, through the CMDB, SHALL provide the ability to easily trace higher and subordinate CIs using CI identifiers or other CI attributes.			
SOW	[SOW-870]	The Contractor's CMDB SHALL be compliant with the Purchaser's IT Service Management (ITSM) Tools.			
SOW	[SOW-870]	The Contractor SHALL use a software source code version control program for any custom software development.			
SOW	[SOW-872]	Subject to approval of the Purchaser under the Technology Substitution clause, the Contractor SHALL establish and maintain the baselines			
		referred to above using the latest commercial version of the version control/Configuration Management automated tool.			
SOW	[SOW-873]	The Contractor, through his provided version control/Configuration Management automated tool, SHALL include the capabilities for baselines			
		management, source control versioning, configuration item identification, change request management, deficiency reporting management,			
		and configuration status accounting.			
SOW	[SOW-874]	The Contractor SHALL provide the Purchaser read-only access to the version control/Configuration Management automated tool.	l	i	
SOW	[SOW-875]	The Contractor SHALL provide the ability for the Purchaser to access (read-only) the source code of the baseline via the version			
		control/Configuration Management automated tool.			

SOW	[SOW-876]	The Contractor SHALL provide the version control/Configuration Management automated tool as part of the IEG-C Reference System to	 I	
30 1	[5010 870]	enable life-cycle Configuration Management.		
SOW	[SOW-877]	At the end of the contract, the Contractor SHALL transfer the current CMDB database to the Purchaser.		
SOW	[SOW-878]	The Contractor SHALL establish a Configuration Identification System.		
SOW	[SOW-879]	The Contractor's, through his Configuration Identification System, SHALL identify all documents necessary to provide a full technical		
	[]	description of the characteristics of the Hardware and Software CIs that require control at the time each baseline is established.		
SOW	[SOW-880]	The Contractor, through his Configuration Identification System, SHALL include the relevant deliverables in the contract.		
SOW	[SOW-881]	The Contractor SHALL provide a CI structure in a tree structure with the PBL being the top level CI.		
SOW	[SOW-882]	The Contractor SHALL include detailed proposals for the documents that will comprise the above baselines in the CM Plan for approval by the		
		Purchaser.		
SOW	[SOW-883]	At the end of the contract, the Contractor SHALL deliver the baseline documentation in a format which complies with SOW 11.6.12.		
SOW	[SOW-884]	As part of the CMDB, as specified under Configuration Management Tools, the Contractor SHALL transfer a copy of the current version of all		
		baselines to the Purchaser at contract completion.		
SOW	[SOW-885]	The Contractor SHALL propose the documentation identification and version control system right after the Kick-off Meeting, before the		
		release of the project documentation, for Purchaser approval. The identification SHALL include the project number, the document name and		
		the version of the document. The versioning of the documentation SHALL be applied in a manner that major versions will be applied before		
		each milestone or official delivery, and minor versions will be applied within the review cycles.		
SOW	[SOW-886]	All Contractor's IEG-C project key personnel SHALL demonstrate spoken and written fluency in English language, at a minimum of 4343 as		
		defined in [STANAG 6001, 2014].		
SOW	[SOW-887]	All Contractor's IEG-C project key personnel SHALL have a current NS security clearance and maintain it throughout the lifecycle of the		
		Contract. Contractor personnel who need System Administrator or Operator privileges when working on NATO SECRET systems SHALL be		
		required to hold NATO CTS (Cosmic Top Secret) clearances.		
SOW	[SOW-888]	All Contractor's IEG-C project key personnel SHALL present references of successful project delivery and description of roles, responsibilities,		
		activities executed, and SHALL include reachable points of contact for above.		
SOW	[SOW-889]	The Contractor SHALL assist the Purchaser to configure existing Management Suites in Purchaser's toolset to integrate and manage IEG-C		
		components, in consistence with the IEG-C system design and management.		
SOW	[SOW-890]	The Contractor SHALL assist the Purchaser to integrate the IEG-C system in the Purchaser's NATO Cyber Security Monitoring Capability.		
SOW	[SOW-891]	The Contractor SHALL provide the Risk Log listing the risks, and indicating for each one the following information (but not limited to):		
	(a.a)		 	
SOW	[SOW-892]	The Contractor SHALL ensure that the Issue Log comprises the following information (but not limited to):	 	
SOW	[SOW-893]	The Contractor SHALL ensure that the PSR summarises activities and progress, including (but not limited to):	 	
SOW	[SOW-894]	The Contractor SHALL ensure that any Change Request will respect the requirements in SOW 12.7 Requests for Change (RFC).	 	
SOW	[SOW-895]	The Contractor SHALL ensure that CR documentation includes:	 	
SOW	[SOW-896]	The Contractor SHALL include, at a minimum, the following information in the SDS document:	 	
SOW	[SOW-897]	The (minimum) information in the NAF views the Contractor SHALL supply is defined in Table 21 1 below.	 	
SOW	[SOW-898]	The NAF views SHALL be produced using applications compliant with NAF 4 and Archimate 3. If not, the Contractor SHALL ensure the		
		exchange format SHALL be approved by the Purchaser upfront.	 	
SOW	[SOW-899]	Physical layout and operation principles of the IEG-C in the deployment sites (including the site of the IEG-C Reference System): identification		
		of where the components will be installed, of how users (NATO Staff Users) will make use of the provided functionality, of how support staff		
		(IEG-C Administrators will operate the system. This SHALL cover in particular how the IEG-C components SHALL integrate into the storage and		
6014	[0004/000]	backup solutions existing at the implementation sites.		
SOW	[SOW-900]	The SVDD SHALL include the following:	 	
SOW	[SOW-901]	The Contractor SHALL submit to the Purchaser the SIP with the following information:	 	
SOW	[SOW-902]	The detailed implementation sequence of Technical Services and User services. The sequence SHALL carefully consider and adapt to the ITM		
6011	[60]11 000]	implementation sequence in order to minimize the impacts on both projects.	 	
SOW	[SOW-903]	The installation plan, which SHALL specifically address:	 	
SOW	[SOW-904]	The activation plan, which SHALL specifically address:		

SOW	[SOW-905]	The migration plan SHALL detail the migration activities. Schedule. Engineering activities for the migration of the existing gateways to IEG-C.		
SOW	[SOW-906]	The Contractor SHALL structure the SIP so that general implementation information is maintained in the body of the plan and site-specific details are kept as annexes.		
SOW	[SOW-907]	The Contractor SHALL ensure that the PMP comprises at minimum of the following sections:		
SOW	[SOW-908]	The Contractor SHALL develop all Technical Manuals compliant with the requirements in SOW 11.6.		
SOW	[SOW-909]	The Contractor SHALL develop Standard Operating Procedures which detail the supporting processes described in ANNEX F.		
SOW	[SOW-910]	The Contractor SHALL be prepared to procure all hardware required for the completion of this project, if the Purchaser exercises the corresponding option before the PDR (EDC+3MO).		
SOW	[SOW-911]	The Contractor SHALL be prepared to perform the activities of this Work Package, if the Purchaser exercises the corresponding option before the SRR (EDC+2MO). In particular:		

	Reference ID				
Reference Document	(BI, SOW requirement,	Description	Bid Reference	Remarks	Compliance statement
	SRS requirement)				
SOW Annex-A		The IEG-C SHALL provide a data exchange capability IEG-C_DEX that facilitates the mediation of data between the High Domain and the Low Domain.			
SOW Annex-A	[SRS-3-10]	The Intrusion Detection Services SHALL offer the following functionality to provide protection for the integrity of the NATO Secret network and protection for availability of the NATO Secret network:			
		Detect Malicious Activities and Faults; Prevent and mitigate Attacks and Fault			
SOW Annex-A		All IEG-C components SHALL support 1GbE.			
SOW Annex-A SOW Annex-A		All IEG-C components SHALL be upgradeable, through the use of pluggable transceivers, to support 10GbE. The Public Key Cryptographic Services SHALL offer the following functionality to provide protection for the confidentiality of the NATO Secret			
		network and protection for the integrity of the NATO Secret network: • Process Public Key Cryptographic Data			
SOW Annex-A	[SRS-3-12]	Manage Cryptographic Keys The Content Inspection Services SHALL offer the following functionality to provide protection for the confidentiality, integrity and availability			
		of the NATO Secret network: • Identify Content;			
		Verify Content; and,			
SOW Annex-A		Transform Content. The Protection Policy Enforcement Services SHALL enforce protection policies on mediated data.			
SOW Annex-A	[SRS-3-14]	The Protection Policy Enforcement Services SHALL consider all aspects relevant to protection of confidentiality, integrity and availability. The Protection Policy Enforcement Services consists of the following two services:			
		Information Flow Control Policy Enforcement (IFCPE) Services; and, Content Inspection Policy Enforcement (CIPE) Services.			
SOW Annex-A		The IFCPE Services SHALL enforce Information flow policies (IFP), which constitute a subset of protection policies.			
SOW Annex-A	[SRS-3-16]	The IFPs SHALL define the way information moves between the NATO Secret network and the Mission Secret network, and vice-versa based upon the following criteria:			
		• the subjects (for example, this may be the IP address of the source and destination, or originator and recipient domain for email or text- based collaboration chat, or the source and destination interfaces within the IEG-C where the IFP is being enforced) under control of the			
		policy; • the content (the data type i.e. XML, that is being exchanged by the Data Exchange Service supporting the information exchange			
		requirement) under control of the policy; and			
SOW Annex-A	[SRS-3-17]	the operations which cause information to flow to and from controlled subjects covered by the policy. The Information Flow Control Policy Enforcement (IFCPE) Services SHALL enforce the following general IFPs:			<u> </u>
		IEG-C_IFP_CA_HL - Communications Access Services High to Low IFP; IEG-C_IFP_CA_LH - Communications Access Services Low to High IFP;			
		IEG-C_IFP_IS_HL - Infrastructure Services High to Low IFP; IEG-C_IFP_SOA_HL - SOA Platform Services High to Low IFP;			
		IEG-C_IFP_SOA_LH - SOA Platform Services Low to High IFP; IEG-C_IFP_BS_HL - Business Support Services High to Low IFP;			
		IEG-C_IFP_BS_LH - Business Support Services Low to High IFP; and,			
SOW Annex-A	[SRS-3-18]	IEG-C_IFP_CS_MGMT - Core Services Management Services IFP. The Content Inspection Policy Enforcement (CIPE) Services SHALL enforce Content Inspection Policies (CIPs) which define how the data			
SOW Annex-A	[SRS-3-19]	mediated between the NATO Secret network and NATO-led Mission network is to be inspected. The CIPs SHALL be designed to protect the confidentiality of the NATO Secret network by inspecting data for unauthorised information that			
SOW Annex-A	[SRS-3-2]	should not be released to the NATO-led Mission Network. IEG-C_DEX SHALL offer the physical network interface IEG-C High Domain Interface [NCIA TR/2016/NSE010871/01, 2017] (IEG-			
		C_IF_NET_HIGH) that provides Ethernet connectivity to the High Domain.			
SOW Annex-A		The CIPs SHALL be designed to protect the integrity and availability of the NATO Secret network by identifying and verifying the structure of the data and removing or blocking malicious content.			
SOW Annex-A	[SRS-3-21]	CIPE Services SHALL enforce the following general CIPs: • IEG-C_CIP_SOA_HL - SOA Platform Services High to Low CIP;			
		IEG-C_CIP_SOA_LH - SOA Platform Services Low to High CIP; IEG-C_CIP_BS_HL - Business Support Services High to Low CIP;			
		IEG-C_CIP_BS_LH - Business Support Services Low to High CIP; IEG-C_CIP_COI-ES_HL - COI-Enabling Services High to Low CIP;			
		IEG-C_CIP_COI-ES_LH - COI-Enabling Services Low to High CIP;			
		IEG-C_CIP_COI_HL - COI-Specific Services High to Low CIP; and IEG-C_CIP_COI_LH - COI-Specific Services Low to High CIP.			
SOW Annex-A	[SRS-3-22]	The IEG-C Element Management Services SHALL provide interfaces that can be managed from a centralized management system to support			
		activities such as Service Management and Control (SMC), Cyber-Defence, security policy administration, audit management and IEG-C configuration and maintenance.			
SOW Annex-A	[CDC 2 24]	The Element Management Services SHALL support the different administrative roles that are required for managing the IEG-C.			
SOW Annex-A	[383-3-24]	Ine administrative roles of the IEG-C SHALL be categorised as follows: • System Administrator: responsible for installation, configuration and maintenance of the IEG-C;			
		 Local System Administrator: responsible for installation, configuration and maintenance of a subset of IEG-C's; Local System Maintainer: responsible for some maintenance activities of a subset of IEG-C's; 			
		 Audit Administrator: responsible for regular review of IEG-C audit logs; CIS Security Administrator: responsible for performing the IEG-C CIS security-related tasks, such as security policy management; 			
		Cyber Defence Administrator: responsible for monitoring and performing cyber-related tasks; and, SMC Administrator: responsible for monitoring IEG-C services.			
SOW Annex-A	[SRS=2-25]	Local SMC Administrator: responsible for monitoring a subset of IEG-C's services and components. The IEG-C Element Management Services SHALL provide interfaces to support local management activities such as Service Management and			
SOW ANNEX-A	UND-J*20]	Control (SMC), Cyber-Defence, security policy administration, audit management and IEG-C configuration and maintenance, in case of loss of			
SOW Annex-A	[SRS-3-3]	connectivity with the Central Management system. IEG-C_DEX SHALL offer the physical network interfaces IEG-C Low Domain Interfaces [NCIA TR/2016/NSE010871/01, 2017] [IEG-			
SOW Annex-A	[SRS-3-4]	C_IF_NET_LOW) that provides Ethernet connectivity to the Low Domains. IEG-C_DEX MAY offer the physical network interface IEG-C Management Interface [NCIA TR/2016/NSE010871/01, 2017] (IEG-C_IF_MGMT)			
SOW Annex-A		that provides Ethernet connectivity to the High Domain. In the case that IEG-C_DEX cannot offer the physical network interface IEG-C_IF_MGMT, it SHALL offer a logical network interface IEG-			
		C_IF_MGMT on top of IEG-C_IF_NET_HIGH.			
SOW Annex-A	[3K3-3-6]	The IEG-C SHALL offer the following functionality as described in the IEG-C Architecture Building Blocks [NCIA TR/2016/NSE010871/01, 2017]:			
		Provide CIS connectivity; Create Network Boundary;			
		Create Domain Boundary; Protect Confidentiality of High Domain;			
		Protect Variability of High Domain; Protect Availability of High Domain;			
		Mediate Data Exchange; and,			
SOW Annex-A	[SRS-3-7]	 Centralize Management. The design and architecture of the IEG-C for providing protected cross domain information exchange between NATO Secret and NATO-led Mission Secret SHALL be implemented in accordance with the self-protecting node principle [NAC AC/35-D/2004-REV3, 2013]. 			
SOW Annex-A	[SRS-3-8]	The Data Exchange Services SHALL offer the following functionality to provide CIS Interconnectivity and Mediate Data Exchange:			
		Exchange Email Services Data; Exchange Web Services Data;			
		Provide Remote Desktop Access; Exchange Network Services Data; and,			
6014	(cpc 2 c)	Exchange Text Based Collaboration Services Data			
SOW Annex-A	[SKS-3-9]	The Protection Services SHALL provide the capability to protect data at the network layer and the application layer. The Protection Services consists of the following three atomic services:			
		Intrusion Detection Services; Public Key Cryptographic Services; and,			
		Content Inspection Services.			

SOW Annex-A	[SRS-4-1]	The IEG-C (depending upon the IERs and protection policies to be enforced for the CIS interconnection) SHALL consist of the following		
		components: • Firewalls;		
		Network Switches;		
		• RDP Proxy;		
		Web Proxy; Mail Guard; and,		
		• Web Guard.		
SOW Annex-A	[SRS-4-10]	IEG-C_DEX SHALL offer Simple Mail Transfer Protocol (SMTP) [IETF RFC 5321, 2008] interface 'Business Support Services HL' on top of 'Communications Access Services HL' and Simple Mail Transfer Protocol (SMTP) [IETF RFC 5321, 2008] interface 'Business Support Services		
		LH' on top of 'Communications Access Services LH'.		
SOW Annex-A SOW Annex-A		The IEG-C Web Proxy component SHALL be enabled and configured with the capability for being managed as specified in Section 9.		
SOW Annex-A	[3K3*4*101]	The TLS Server identity (X.509 PKIX version 3.0 certificate, [IETF RFC 5280, 2008]) SHALL be validated, as per Section 6 of [IETF RFC 6125, 2011] following the best current practices documented in the "Recommendations for Secure Use of TLS and DTLS" [IETF RFC 7525,		
	(000 4 404)	2015(IETF)].		
SOW Annex-A SOW Annex-A		The IEG-C Web Proxy component SHALL be an appliance, or deployed on a physical server. IEG-C DEX SHALL offer an interface "Core Services" on top of 'Communications Access Services Management' that SHALL support the		
		following protocols:		
		• DNS [IETF RFC 1035, 1987] • OCSP [IETF RFC 6960, 2013]		
		• LDAP [IETF RFC 4510-4519, 2006]		
		• RTP [IETF RFC 3350, 2003] • RTCP [IETF RFC 3350, 2003]		
		• JREAP [STANAG 5518]		
SOW Annex-A	[SRS-4-103]	The IEG-C Web Proxy component SHALL be configured to have at least three network interfaces (NICs: one for the network connection to the		
		High Domain Switch; one for the network connection to the Low Domain Switches; and, one for the network connection to the Management		
SOW Annex-A	[SRS-4-105]	Domain Switch). The IEG-C RDP Proxy component SHALL be the Microsoft Windows Server 2016 (or later versions that are listed on the Approved Fielded		
		Product List for the High Side) with the Remote Desktop Services server role.		
SOW Annex-A SOW Annex-A		The IEG-C RDP Proxy component SHALL be synchronised to the IEG-C High Domain Firewall component NTP source. Local client devices SHALL NOT be accessible on the remote desktop session.		
SOW Annex-A		The IEG-C RDP Proxy component SHALL enable the capability to support only those Data Exchange Services as specified in Table 4 (for that		
SOW Annex-A	[SRS-4-107]	component). The IEG-C RDP Proxy component SHALL be enabled and configured with the capability for being managed as specified in Section 9.		
		The IEG-C RDP Proxy component SHALL generate an SSL Certificate Signing Request (CSR) to be signed by the appropriate E-NPKI Registration		
SOW Annex-A	[SRS-4-109]	Authority (RA). The IEG-C RDP Proxy component SHALL be deployed on a physical server.	 	
SOW Annex-A		IEG-C_DEX SHALL offer Remote Desktop Protocol (RDP) [RDP Overview, 2019] interface 'Infrastructure Services HL' on top of		
SOW Annex-A	[SRS-4-110]	'Communications Access Services HL'. The IEG-C RDP Proxy component server SHALL support (as a minimum) the Microsoft Windows Server 2016 R2 (or later versions that are		
		listed on the Approved Fielded Product List for the High Side) 64-bit edition operating system.		
SOW Annex-A	[SRS-4-111]	The IEG-C RDP Proxy component server SHALL be configured to have at least three network interfaces (NICs: one for the network connection to the High Domain Switch; one for the network connections to the Low Domain Switch; and, one for the network connection to the		
		Management Domain Switch).		
SOW Annex-A SOW Annex-A		The IEG-C Web Guard component SHALL comply with the functional requirements specified in Section 6. The IEG-C Web Guard component SHALL comply with the non-functional requirements specified in Section 5.3.		
SOW Annex-A		The IEG-C. Web Guard component SHALL comply with the non-functional requirements specified in Section 5.3. The IEG-C Web Guard component SHALL comply with the security functional requirements specified in Section 6.8.		
SOW Annex-A SOW Annex-A		The IEG-C Web Guard component SHALL be synchronised to the IEG-C High Domain Firewall component NTP source.		
SOW Annex-A	[SKS-4-118]	It SHALL be possible to enforce a separate 'WG security policy' (see section 6.2.1) per service/application mediated by the Web Guard.		
SOW Annex-A	[SRS-4-119]	The IEG-C Web Guard component SHALL enable the capability to support only those Data Exchange Services as listed in Table 4 (for that		
SOW Annex-A	[SRS-4-12]	component) and specified in Section 6.4. IEG-C_DEX SHALL offer UDP [IETF RFC 768, 1980] and IPv4 and IPv6, [IETF RFC 791, 1981], [IETF RFC 8200, 2017] over Ethernet interface		
CONV 4 4	(CDC 4 120)	Communications Access Services Management' on top of IEG-C_IF_MGMT.		
SOW Annex-A SOW Annex-A		The IEG-C Web Guard component Protection Services SHALL comply with the requirements specified in Section 6.6. The IEG-C Web Guard component Protection Policy Enforcement Services SHALL comply with the requirements specified in Section 6.5.		
CONV 1	(CDC 4 122)			
SOW Annex-A SOW Annex-A		The IEG-C Web Guard component Element Management Services SHALL comply with the requirements specified in Section 6.7. The IEG-C Web Guard component SHALL be configured to have at least three network interfaces (NICs: one for the network connection to		
		the High Domain Switch; one for the network connection to the Low Domain Switch; and, one for the network connection to the		
SOW Annex-A	[SRS-4-124]	Management Domain Switch). The IEG-C Web Guard component network interfaces to the High Domain Switch, Low Domain Switches and Management Domain Switch		
		SHALL be 1000BASE-SX gigabit Ethernet interfaces.		
SOW Annex-A SOW Annex-A		The IEG-C Mail Guard component SHALL be synchronised to the IEG-C Firewall component NTP source. The IEG-C Mail Guard component SHALL enable the capability to support only those Data Exchange Services as specified in Table 4 (for that		
		component).		
SOW Annex-A	[SRS-4-128]	The IEG-C Mail Guard component SHALL use a malware/virus scanner that is included in the NATO Information Assurance Product Catalogue (NIAPC) to check email messages for malicious content.		
SOW Annex-A	[SRS-4-129]	The IEG-C Mail Guard component SHALL enable the capability to configure the Content Inspection Services that will enforce the IEG-C		
		Business Support and COI CIPs (refer to Section 4.7.4) depending on the information exchange requirements and the content inspection policy to be enforced for the CIS interconnection.		
SOW Annex-A	[SRS-4-13]	IEG-C_DEX SHALL offer an interface 'Core Services Management' on top of 'Communications Access Services Management' that SHALL		
		support the following management protocols: • Keyboard, video and mouse (KVM) over Internet Protocol (IP);		
		Command Line interface (CLI) via Secure Shell (SSH) Transport Layer protocol [IETF RFC 4251, 2006];		
			•	
		 Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; Syslog [IETF RFC 5424, 2009]; 		
		• Syslog [IETF RFC 5424, 2009]; • Secure Shell (SSH, [IETF RFC 4253, 2006]);		
		Syslog [IETF RFC 5424, 2009]; • Secure Shell (SSH, [IETF RFC 4253, 2006]); • Network Time Protocol (NTP, [IETF RFC 5905, 2010]);		
		 Syslog [IETF RFC 5424, 2009]; Secure Shell (SSH, [IETF RFC 4253, 2006]); Network Time Protocol (NTP, [IETF RFC 5905, 2010]); Intelligent Plafform Management Interface (IPMI, [IPMI V.2.0, 2013]); Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] 		
		 Syslog [IETF RFC 5424, 2009]; Secure Shell (SSH, [IETF RFC 4253, 2006]); Network Time Protocol (NTP, [IETF RFC 5905, 2010]); Intelligent Platform Management Interface (IPMI, [IPMI V.2.0, 2013]); Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (HTTP) v2 Web interface [IETF RFC 7540, 2014] ; 		
		 Syslog [IETF RFC 5424, 2009]; Secure Shell (SSH, [IETF RFC 4253, 2006]); Network Time Protocol (NTP, [IETF RFC 5905, 2010]); Intelligent Platform Management Interface (IPMI, [IPMI V.2.0, 2013]); Hyper-Text Transport Protocol (HTTP) v.1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (HTTP) v.2 Web interface [IETF RFC 7540, 2014] ; Remote Desktop (RDP [RDP Overview, 2019]; Remote Desktop (RDP [RDP Overview, 2019]; Remote Procedure Call (RPC, [IETF RFC 5531, 2009]). 		
		 Syslog [IETF RFC 542, 2009]; Secure Shell (SSH, [IETF RFC 4253, 2006]); Network Time Protocol (NTF), [IETF RFC 5905, 2010]); Intelligent Platform Management Interface (IPMI, (IPMI V.2.0, 2013]); Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (HTTP) v2 Web interface [IETF RFC 7540, 2014] ; Remote Desktop (RDP [RDP Overview, 2019]; Remote Procedure Call (RPC, [IETF RFC 5531, 2009]). System Center Operations Manager 		
		 Syslog [IETF RFC 5424, 2009]; Secure Shell (SSH, [IETF RFC 4253, 2006]); Network Time Protocol (NTP, [IETF RFC 5905, 2010]); Intelligent Platform Management Interface (IPMI, IJPMI V.2.0, 2013]); Intelligent Platform Vanocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7540, 2014] ; Remote Desktop (RDP [RDP Overview, 2019]; Remote Procedure Cail (RFC, [IETF RFC 5531, 2009]). System Center Operations Manager Systems Center Configuration Manager Windows Server Update Services 		
		 Syslog [IETF RFC 5424, 2009]; Secure Shell (SSH, [IETF RFC 4253, 2006]); Network Time Protocol (INTF) [IETF RFC 5905, 2010]); Intelligent Platform Management Interface (IPMI, IPMI V.2.0, 2013]); Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (HTTP) v2 Web interface [IETF RFC 7540, 2014] ; Remote Desktop (RDP [RDP Overview, 2019]; Remote Procedure Call (RPC, [IETF RFC 5531, 2009]). System Center Operations Manager Systems Center Operations Manager Windows Server Update Services McAfee e-Policy Orchestrator 		
		 Syslog [IETF RFC 5424, 2009]; Secure Shell (SSH, [IETF RFC 4253, 2006]); Network Time Protocol (NTP, [IETF RFC 5905, 2010]); Intelligent Platform Management Interface (IPMI, (IPMI V.2.0, 2013]); Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (HTTP) v2 Web interface [IETF RFC 7540, 2014]; Remote Desktop (RDP [RDP Overview, 2019]; Remote Drocedure Cail (RFC, [IETF RFC 5531, 2009]). System Center Operations Manager Systems Center Configuration Manager Windows Server Update Services McAfee e-Policy Orchestrator Adobe Patching File Transfer Protocol [IETF RFC 559, 1985] 		
		 Syslog [IETF RFC 5424, 2009]; Secure Shell (SSH, [IETF RFC 4253, 2006]); Network Time Protocol (NTF) /LETF RFC 5905, 2010)]; Intelligent Platform Management Interface (IPMI, [IPMI V.2.0, 2013]); Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (HTTP) v2.0 Web interface [IETF RFC 7540, 2014] ; Remote Desktop (RDP [RDP Overview, 2019]; Remote Procedure Call (RPC, [IETF RFC 5531, 2009]). System Center Operations Manager System Center Configuration Manager Windows Server Update Services McAfee e-Policy Orchestrator Adobe Patching 		
SOW Annex-A	[SR5-4-130]	 Syslog [IETF RFC 5424, 2009]; Secure Shell (SSH, [IETF RFC 4253, 2006]); Network Time Protocol (NTP, [IETF RFC 5905, 2010]); Intelligent Platform Management Interface (IPMI, [IPMI V.2.0, 2013]); Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (HTTP) v1.2 Web interface [IETF RFC 7230, 2014]; Remote Desktop (RDP [RDP Overview, 2019]; Remote Drocedure Cail (RFC, [IETF RFC 5531, 2009]). System Center Operations Manager Systems Center Configuration Manager Windows Server Update Services McAfee e-Policy Orchestrator Adobe Patching File Transfer Protocol [IETF RFC 559, 1985] Telenet [IETF RFC 854, 1983] 		
SOW Annex-A	[SR5-4-130]	 Syslog [IETF RFC 5424, 2009]; Secure Shell (SH, [IETF RFC 4253, 2006]); Network Time Protocol (IFTP) y2.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (ITTP) y1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (ITTP) y2.4 Web interface [IETF RFC 7540, 2014] ; Remote Desktop (RDP [RDP Overview, 2019]; Remote Procedure Call (RPC, [IETF RFC 7531, 2009]). System Center Operations Manager System Center Operations Manager Windows Server Update Services McAfee e-Policy Orchestrator Adobe Patching File Transfer Protocol [IETF RFC 959, 1985] Telnet [IETF RFC 854, 1983] 		
SOW Annex-A SOW Annex-A		 Syslog [IETF RFC 542, 2009]; Secure Shell (SSH, [IETF RFC 4253, 2006]); Network Time Protocol (IRTF, IETF RFC 5905, 2010]); Intelligent Platform Management Interface (IPMI, (IPMI V.2.0, 2013]); Hyper-Text Transport Protocol (IHTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (IHTTP) v2 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (IHTTP) v2 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Remote Desktop (RDP [RDP Overview, 2019]; Remote Procedure Cail (RFC, [IETF RFC 5531, 2009]). System Center Operations Manager Systems Center Configuration Manager Windows Server Update Services McAfee e-Policy Orchestrator Adobe Patching File Transfer Protocol [IETF RFC 553, 1985] Telnet [IETF RFC 854, 1983] The IEG-C Mail Guard component SHALL enable the capability to perform cryptographic operations and key management to support the validation of cryptographic bindings according to NISP Cryptographic Artefact Binding Profiles [ADatP-34(I), NISP Version 10, 2017]. The IEG-C Mail Guard component SHALL be configured to conform to the INFOSEC CIS Security Technical and Implementation Guidance in 		
SOW Annex-A	[SRS-4-131]	 Syslog [IETF RFC 5424, 2009]; Secure Shell (SSH, [IETF RFC 4253, 2006]); Network Time Protocol (IFTF RFC 5905, 2010)); Intelligent Platform Management Interface (IPMI, IPMI V.2.0, 2013)); Hyper-Text Transport Protocol (IHTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (IHTTP) v2. Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (IHTTP) v2. Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Remote Desktop (RDP [RDP Overview, 2019]; Remote Procedure Call (RPC, [IETF RFC 5531, 2009]). System Center Operations Manager System Center Operations Manager System Center Operations Manager Windows Server Update Services McAfee e-Policy Orchestrator Adobe Patching File Transfer Protocol [IETF RFC 959, 1985] Telnet [IETF RFC 554, 1983] The IEG-C Mail Guard component SHALL enable the capability to perform cryptographic operations and key management to support the validation of cryptographic bindings according to NISP Cryptographic Artefact Binding Profiles [ADatP-34(I), NISP Version 10, 2017]. The IEG-C Mail Guard component SHALL be configured to conform to the INFOSEC CIS Security Technical and Implementation Guidance in Support OPublic Key Infrastructure - Cryptographic Actefact Binding Profiles [ADatP-34(I), NISP Version 10, 2017]. 		
SOW Annex-A SOW Annex-A	[SRS-4-131] [SRS-4-132]	 Syslog [IETF RFC 542, 2009]; Secure Shell (SSH, [IETF RFC 4253, 2006]); Network Time Protocol (IRTF, IETF RFC 5905, 2010]); Intelligent Platform Management Interface (IPMI, (IPMI V.2.0, 2013]); Hyper-Text Transport Protocol (IHTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (IHTTP) v2 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (IHTTP) v2 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Remote Desktop (RDP [RDP Overview, 2019]; Remote Procedure Cail (RFC, [IETF RFC 5531, 2009]). System Center Operations Manager Systems Center Configuration Manager Windows Server Update Services McAfee e-Policy Orchestrator Adobe Patching File Transfer Protocol [IETF RFC 553, 1985] Telnet [IETF RFC 854, 1983] The IEG-C Mail Guard component SHALL enable the capability to perform cryptographic operations and key management to support the validation of cryptographic bindings according to NISP Cryptographic Artefact Binding Profiles [ADatP-34(I), NISP Version 10, 2017]. The IEG-C Mail Guard component SHALL be configured to conform to the INFOSEC CIS Security Technical and Implementation Guidance in 		
SOW Annex-A	[SRS-4-131] [SRS-4-132]	 Syslog [IETF RFC 5424, 2009]; Secure Shell (SSH, [IETF RFC 4253, 2006]); Network Time Protocol (INTF) [IETF RFC 5905, 2010]); Intelligent Platform Management Interface (IPMI, [IPMI V.2.0, 2013]); Hyper-Text Transport Protocol (INTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (INTTP) v2. Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (INTTP) v2. Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Remote Desktop (RDP [RDP Overview, 2019]; Remote Procedure Call (RPC, [IETF RFC 5531, 2009]). System Center Operations Manager System Center Operations Manager System Center Operations Manager Windows Server Update Services McAfee e-Policy Orchestrator Adobe Patching File Transfer Protocol [IETF RFC 959, 1985] Telnet [IETF RFC 554, 1983] The IEG-C Mail Guard component SHALL enable the capability to perform cryptographic operations and key management to support the validation of cryptographic bindings according to NISP Cryptographic Artefact Binding Profiles [ADatP-34(I), NISP Version 10, 2017]. The IEG-C Mail Guard component SHALL be configured to conform to the INFOSEC CIS Security Technical and Implementation Guidance in Support of Public Key Infrastructure - Cryptographic Aspects [NAC AC/322-0(2007)002-REV1, 2015]. The IEG-C Mail Guard component SINAL be configured to conform to the INFOSEC Technical and Implementation Guidance in Support of Public Key Infrastructure - Cryptographic Aspects [NAC AC/322-0(2007)002-REV1, 2015]. The IEG-C Mail Guard component SINAL be configured to conform to the INFOSEC Technical and Implementation Guidance in Cryptographic Mechanisms [NAC AC/322-D/0047-REV2 (INV), 2009]. The IEG-C Mail Guard component SINAL be configured to conform to the INFOSEC Technical and Implementation Directive on Crypto		
SOW Annex-A SOW Annex-A	[SRS-4-131] [SRS-4-132] [SRS-4-133]	 Syslog [IETF RFC 542, 2009]; Secure Shell (SH, [IET RFC 4253, 2006]); Network Time Protocol (NTP, [IETF RFC 5905, 2010]); Intelligent Platform Management Interface (IPMI, [IPMI V.2.0, 2013]); Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (HTTP) v1.1 web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (HTTP) v2. Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Remote Desktop (RDP [RDP Overview, 2019]; Remote Procedure Cail (RPC, [IETF RFC 5531, 2009]). System Center Operations Manager Systems Center Configuration Manager Windows Server Update Services McAfee e-Policy Orchestrator Adobe Patching File Transfer Protocol [IETF RFC 959, 1985] Telnet [IETF RFC 854, 1983] The IEG-C Mail Guard component SHALL enable the capability to perform cryptographic operations and key management to support the validation of cryptographic bindings according to NISP Cryptographic Artefact Binding Profiles [ADatP-34(I), NISP Version 10, 2017]. The IEG-C Mail Guard component SHALL be configured to conform to the INFOSEC CIS Security Technical and Implementation Guidance in Support of Public Key Infrastructure - Cryptographic Aspects [NAC AC/322-0(2007)0002-REV1, 2015]. The IEG-C Mail Guard component SHALL be configured to conform to the INFOSEC CIS Security Technical and Implementation Guidance in Support of Public Key Infrastructure - Cryptographic Aspects [NAC AC/322-0(2007)0002-REV1, 2015]. The IEG-C Mail Guard component SHALL be configured to conform to the INFOSEC CIS Security Technical and Implementation Guidance in Support of Public Key Infrastructure - Cryptographic Aspects [NAC AC/322-0(2007)0002-REV1, 2015]. 		
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-4-131] [SRS-4-132] [SRS-4-133] [SRS-4-134]	 Syslog [IETF RFC 542, 2009]; Secure Shell (SSH, [IETF RFC 4253, 2006]); Network Time Protocol (INTP, ILETF RFC 5905, 2010]); Intelligent Platform Management Interface (IPMI, [IPMI V.2.0, 2013]); Hyper-Text Transport Protocol (INTP) v1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (INTTP) v1 Web interface [IETF RFC 7540, 2014]; Remote Desktop (RDP [RDP Overview, 2019]; Remote Procedure Cail (RFC, [IETF RFC 7540, 2014]; Remote Procedure Cail (RFC, [IETF RFC 7540, 2014]; System Center Operations Manager System Center Operations Manager Windows Server Update Services McAfee e-Policy Orchestrator Adobe Patching File Transfer Protocol [IETF RFC 959, 1985] Teinet [IETF RFC 544, 1983] The IEG-C Mail Guard component SHALL enable the capability to perform cryptographic operations and key management to support the validation of cryptographic bindings according to NISP Cryptographic Artefact Binding Profiles [ADatP-34(I), NISP Version 10, 2017]. The IEG-C Mail Guard component SHALL be configured to conform to the INFOSEC CIS Security Technical and Implementation Guidance in Support of Public Key Infrastructure - cryptographic conform to the INFOSEC CIS Security Technical and Implementation Guidance in Support of Public Guard Component SHALL be configured to conform to the INFOSEC CIS Security Technical and Implementation Guidance in Cryptographic Mechanisms (INCA CA'232-D)(0047-REV2 (INV), 2009]. The IEG-C Mail Guard component SHALL be configured to conform to the INFOSEC Cis Security Technical and Implementation Guidance on Cryptographic Mechanisms (INCA CA'232-D)(0047-REV2 (INV), 2009]. The IEG-C Mail Guard component SHALL be configured bit conform to the INFOSEC Technical and Implementation Guidance on Cryptographic Mechanisms (INCA CA'232-D)(2047-REV2 (INV), 2009]. The IEG-C Mail Guard compon		
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-4-131] [SRS-4-132] [SRS-4-133] [SRS-4-134] [SRS-4-135]	 Syslog [IETF RFC 5424, 2009]; Secure Shell (SSH, [IETF RFC 4253, 2006]); Network Time Protocol (NTP, [IETF RFC 5905, 2010]); Intelligent Platform Management Interface (IPMI, [IPMI V.2.0, 2013]); Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (HTTP) v1.1 web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (HTTP) v2. Web interface [IETF RFC 7240, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (HTTP) v2. Web interface [IETF RFC 7540, 2014] ; Remote Desktop (RDP [RDP Overview, 2019]; Remote Procedure Cail (RPC, [IETF RFC 5531, 2009]). System Center Operations Manager Systems Center Configuration Manager Systems Center Configuration Manager Windows Server Update Services McAfee e-Policy Orchestrator Adobe Patching File Transfer Protocol [IETF RFC 959, 1985] Telnet [IETF RFC 854, 1983] The IEG-C Mail Guard component SHALL enable the capability to perform cryptographic operations and key management to support the validation of cryptographic bindings according to NISP Cryptographic Artefact Binding Profiles [ADatP-34(I), NISP Version 10, 2017]. The IEG-C Mail Guard component SHALL be configured to conform to the INFOSEC CIS Security Technical and Implementation Guidance in Support of Public Key Infrastructure - Cryptographic specific (NAC A/322-0)(2007)(0002-REV1, 2015). The IEG-C Mail Guard component SHALL be configured to conform to the INFOSEC CIS Security Technical and Implementation Guidance in Support of Public Key Infrastructure (Cryptographic Mechanisms (NAC A/322-0)(2007)(0002-REV1, 2015). The IEG-C Mail Guard component SHALL be configured to conform to the INFOSEC CIS Security Technical and Implementation Directive on Cryptographic Security and Cryptographic Mechanisms (NAC A/322-0)(0047		
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-4-131] [SRS-4-132] [SRS-4-133] [SRS-4-134] [SRS-4-135]	 Syslog [IETF RFC 542, 2009]; Secure Shell (SSH, [IETF RFC 4253, 2006]); Network Time Protocol (NTP, [IETF RFC 5905, 2010]); Intelligent Platform Management Interface (IPMI, [IPMI V.2.0, 2013]); Hyper-Text Transport Protocol (HTTP) v1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (HTTP) v1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (HTTP) v1 Web interface [IETF RFC 7540, 2014]; Remote Desktop (RDP [RDP Overview, 2019]; Remote Decoderuc Cail (RFC) (IETF RFC 7540, 2019). System Center Operations Manager Vindows Server Update Services McAfee e-Policy Orchestrator Adobe Patching File Transfer Protocol [IETF RFC 959, 1985] Teinet [IETF RFC 544, 1983] The IEG-C Mail Guard component SHALL enable the capability to perform cryptographic operations and key management to support the validation of cryptographic bindings according to NISP Cryptographic Artefact Binding Profiles [ADatP-34(I), NISP Version 10, 2017]. The IEG-C Mail Guard component SHALL be configured to conform to the INFOSEC CIS Security Technical and Implementation Guidance in support of Public Key Infrastructure - Cryptographic Security Tochnical and Implementation Guidance in Support of Public Key Infrastructure - Cryptographic Security 20007)0002-REV1, 2015]. The IEG-C Mail Guard component SHALL be configured to conform to the INFOSEC CIS Security Technical and Implementation Guidance in Support of Public Key Infrastructure - Cryptographic Services [NAC AC/322-D(2007)002-REV1, 2015]. The IEG-C Mail Guard component SHALL be configurable to support the enforcement of the following IEG-C Business Support IFPs (see Section 3.4.4); The IEG-C Mail Guard component SHALL be configurable to support the enforcement of the following IEG-C Business Support IFPs (see Section 3.4.5); The IEG-C Mail		
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-4-131] [SRS-4-132] [SRS-4-133] [SRS-4-134] [SRS-4-135] [SRS-4-136]	 Syslog [IETF RFC 5424, 2009]; Secure Shell (SSH, [IETF RFC 4253, 2006]); Network Time Protocol (IRTF PIC 4253, 2006]); Intelligent Platform Management Interface (IPMI, [IPMI V.2.0, 2013]); Hyper-Text Transport Protocol (IHTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (IHTTP) v2 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Hyper-Text Transport Protocol (IHTTP) v2 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014] Remote Desktop (RDP [RDP Overview, 2019]; Remote Procedure Call (RPC, [IETF RFC 5531, 2009]). System Center Operations Manager Systems Center Configuration Manager Systems Center Configuration Manager Windows Server Update Services McAfee e-Policy Orchestrator Adobe Patching File Transfer Protocol [IETF RFC 553, 1985] Telnet [IETF RFC 854, 1983] The IEG-C Mail Guard component SHALL enable the capability to perform cryptographic operations and key management to support the validation of cryptographic bindings according to NISP Cryptographic Artefact Binding Profiles [ADatP-34(i), NISP Version 10, 2017]. The IEG-C Mail Guard component SHALL be configured to conform to the INFOSEC CIS Security Technical and Implementation Guidance in support of Public Key Infrastructure - Cryptographic Aspects [NAC AC/322-D(2007)0002-REV1, 2015]. The IEG-C Mail Guard component provided cryptographic services [NAC AC/322-D(2012)0022, 2013]. The IEG-C Mail Guard component SHALL be configurable to support the enforcement of the following IEG-C Business Support IFPs (see Section 3.4.4): The IEG-C Mail Guard component SHALL be configurable to support the enforcement of the following IEG-C Business Support IFPs (see Section 3.4.5): 		

SOW Annex-A	[SRS-4-138]	The IEG-C Mail Guard component SHALL enable the capability to configure the MG_IFP_BS_HL and MG_IFP_BS_LH IFPs to verify that the email message can be forwarded between the high and low domain by checking originator access control rules against white or black lists.		
SOW Annex-A	[SRS-4-139]	The IEG-C Mail Guard component SHALL enable the capability to configure the MG_IFP_BS_HL and MG_IFP_BS_LH IFPs to verify that the		
SOW Annex-A	[CDC 4 14]	email message can be transferred between the high and low domain by checking recipient access control rules against white or black lists.		
		Installation guidelines for "Selection and Installation of Equipment for the Processing of Classified Information" [SDIP-29/2] regarding equipment separation and installation requirements SHALL be adhered to.		
SOW Annex-A		The IEG-C Mail Guard component SHALL enable the capability to configure the MG_IFP_BS_HL IFP to enforce the MG_CIP_BS_HL CIP.		
SOW Annex-A		The IEG-C Mail Guard component SHALL enable the capability to configure the MG_CIP_BS_HL CIP to verify that all email messages to be released from the high domain to the low domain contain a security label that conforms to the access control rules to be enforced for the CIS interconnection.		
SOW Annex-A		The IEG-C Mail Guard component SHALL enable the capability to select that the security label format is the STANAG 4774 confidentiality label XML format.		
SOW Annex-A		The IEG-C Mail Guard component SHALL enable the capability to select that the STANAG 4774 confidentiality label is bound to the email message as specified in STANAG 4778 and NATO Interoperability Standards and Profiles (NISP) SMTP Binding Profile.		
SOW Annex-A	[SRS-4-144]	The IEG-C Mail Guard component SHALL enable the capability to select that the STANAG 4774 confidentiality label is cryptographically bound to the email message as specified in NATO Interoperability Standards and Profiles (NISP) Cryptographic Artefact Binding Profiles.		
SOW Annex-A	[SRS-4-145]	The IEG-C Mail Guard component SHALL enable the capability to configure the MG_CIP_BS_HL CIP to verify that all email messages to be released from the high domain to the low domain do not contain unauthorised information, such as 'dirty words'.		
SOW Annex-A		The IEG-C Mail Guard component SHALL enable the capability to configure the MG_IFP_BS_LH IFP to enforce the MG_CIP_BS_LH CIP.		
SOW Annex-A	[SRS-4-147]	The IEG-C Mail Guard component SHALL enable the capability to configure the MG_CIP_BS_HL and MG_CIP_BS_HL CIPs to verify that all email messages to be forwarded between the high domain and the low domain do not contain any disallowed attachment types by checking against a white list or black list of attachment types.		
SOW Annex-A	[SRS-4-148]	The IEG-C Mail Guard component SHALL enable the capability to configure the MG_CIP_BS_LH CIP to verify that all email messages (including email message header, body and allowed body parts) are well-formed, valid and contain no malicious content.		
SOW Annex-A	[SRS-4-149]	Depending on the information exchange requirements the IEG-C SHALL be configurable to support the enforcement of the following IEG-C COI CIPs (see Section 3.4.5):		
		IEG-C_CIP_COI-ES_HL - COI-Enabling Services High to Low CIP; IEG-C_CIP_COI-ES_LH - COI-Enabling Services Low to High CIP;		
		IEG-C_CIP_COI_HL-COI-Specific Services High to Low CIP; and IEG-C_CIP_COI_LH-COI-Specific Services Low to High CIP.		
SOW Annex-A	[SRS-4-15]	The IEG-C SHALL support a network architecture containing a de-militarized zone (DMZ).		
SOW Annex-A		The IEG-C SHALL Support a network architecture containing a de-minitarized 20ne (UMZ). The IEG-C Mail Guard component SHALL enable the capability to configure the IEG-C [CD]-CDI-ES_HL and IEG-C_IP_COI_HL CIPs to verify that attachments contained in email messages to be released from the high domain to the low domain do not contain unauthorised		
SOW Annex-A	[SPS-4-151]	Information, such as 'dirty words', including classification markings. The IEG-C Mail Guard component SHALL enable the capability to configure the IEG-C CIP COI-ES LH and IEG-C CIP COI LH CIPs to verify		
SOW Annex-A		The IEG-C Mail Guard component SHALL enable the capability to configure the IEG-C LT_CUTES_CLF and IES-C_CLF_CUTEH CLFS to verify that attachments contained in email messages are well-formed, valid and contain no malicious content. The IEG-C Mail Guard component SHALL enforce the IEG-C Business Support IFPs, Business Support CIPs and COI CIPs configured (depending		
SOW Annex-A		upon the information exchange requirements and protection policy enforced for the CIS interconnection) for the IEG-C.		
SOW Annex-A		The IEG-C Mail Guard component SHALL be enabled and configured with the capability for being managed as specified in Section 9. The IEG-C Mail Guard component SHALL be configured to have at least three network interfaces (NICs: one for the network connection to		
		the High Domain Switch; one for the network connections to the Low Domain Switch; and, one for the network connection to the Management Domain Switch).		
SOW Annex-A		The IEG-C Mail Guard component network interfaces to the High Domain Switch, Low Domain Switches and Management Domain Switch SHALL be 1000BASE-SX gigabit Ethernet interfaces.		
SOW Annex-A	[SRS-4-156]	The IEG-C server SHALL be integrated with either: • HPE OneView and HPE Integrated Lights-Out (iLO); or		
SOW Annex-A	[SRS-4-158]	 Dell EMC OpenManage Enterprise and Dell Integrated Dell Remote Access Controller (IDRAC) The IEG-C server component SHALL be configured to have at least three network interfaces (NICs: one for the network connection to the 		
		High Domain Switch; one for the network connections to the Low Domain Switch; and, one for the network connection to the Management Domain Switch).		
SOW Annex-A	[SRS-4-159]	The IEG-C server component network interfaces to the High Domain Switch, Low Domain Switch and Management Domain Switch SHALL be 1000BASE-SX gigabit Ethernet interfaces.		
SOW Annex-A SOW Annex-A		The IEG-C server component SHALL be synchronised to the IEG-C High Domain Firewall component NTP source. The IEG-C Rack component SHALL be the Server Equipment Cabinet		
SOW Annex-A	[SRS-4-167]	All IEG-C components SHALL be rack mounted.		
SOW Annex-A SOW Annex-A		The IEG-C UPS component SHALL be the UPS APC Smart-UPS C 1500 The IEG-C components providing 1000BASE-SX gigabit Ethernet physical interfaces SHALL be connected with multi-mode fibre optic cables.		
SOW Annex-A	[SRS-4-17]	To support connectivity of the proxies and the guards to the high domain and the low domains the High Network Domain Switch and a Low Domain Network Switch SHALL be provided, respectively.		
SOW Annex-A	[SRS-4-172]	All network interfaces shall be implemented in accordance with [IEEE 802.3:2012], whereby, gigabit Ethernet interfaces shall support a		
SOW Annex-A		maximum transmission unit (MTU) of 9000 bytes. The High Domain Switch SHALL be connected to the High Domain Firewall.		
SOW Annex-A SOW Annex-A		The Low Domain Switch SHALL be connected to the Low Domain Firewall. Only those IEG-C components, hence only the protocols, network services, and the information or data flows, required to support the		
SOW Annex-A		information exchange requirements SHALL be configured and used through the interconnection. The RDP Proxy SHALL be connected to the High Domain Firewall (via the High Domain Network Switch) and the Low Domain Firewall (via the		
SOW Annex-A		Low Domain Network Switch) using separate physical network interfaces. The IEG-C wired infrastructure for connecting IEG-C components (that are required to be connected together to support the information		
SOW Annex-A		exchange requirements for the CIS interconnection) SHALL support VLANs. The selected IEG-C High Domain and Low Domain Firewalls components SHALL include compatible rack mount kits and power cords.		
SOW Annex-A		The Selected ICS-C High Domain and LOW DOMain Prewalls Components SHALL include Compatible rack mount kits and power Cords. The IEG-C High Domain Firewall and IEG-C Low Domain Firewall components SHALL mediate all Data Exchange Services that transition the		
SOW Annex-A		The IEG-C High Domain Firewall and IEG-C Low Domain Firewall components SHALL mediate all Data Exchange services that transition the IEG-C. The IEG-C High Domain Firewall and Low Domain Firewall components SHALL enable the capability to configure the IEG-C IFP CA HL and		
		IEG-C_IFP_CA_LH IFPs in order to allow only those application layer protocols and applications that are required to support the information exchange requirements for the high domain - low domain interconnection.		
SOW Annex-A		The IEG-C High Domain Firewall and Low Domain Firewall components SHALL identify application layer protocols and applications through application protocol inspection, which SHALL be based on the use of application signatures, application protocol decoding, and heuristics.	 	
SOW Annex-A	[SRS-4-205]	The IEG-C High Domain Firewall and Low Domain Firewall components SHALL be managed from the Service Operation Centre (SOC) using the current management tools (i.e. Palo Alto Networks Panorama).		
SOW Annex-A	[SRS-4-206]	The IEG-C Low Domain Firewall component SHALL be configured to have at least three network interfaces (NICs: one for the network connection to the low domain; one for the network connection to the Low Domain Network Switch; and, one for the network connection to	 	
SOW Annex-A	[SRS-4-207]	the Management Domain Network Switch). The IEG-C Low Domain Firewall component network interfaces to the low domain SHALL be 1000-BaseSX gigabit Ethernet interfaces.		
SOW Annex-A		The IEG-C Low Domain Firewall component network interfaces to the Low Domain Switch SHALL be 1000BASE-SX gigabit Ethernet interfaces.		
SOW Annex-A		The selected IEG-C Network Switch components SHALL include compatible rack mount kits and power cords.	 	
SOW Annex-A		The Web Proxy SHALL be connected to the High Domain Firewall (via the High Domain Network Switch) and the Low Domain Firewall (via the Low Domain Firewall) using separate physical network interfaces.	 	
SOW Annex-A SOW Annex-A	[SRS-4-211]	Only configured users SHALL be allowed to connect to the RDP Proxy. Users SHALL be required to authenticate to the RDP Proxy in accordance with [NAC AC/322-D/0048-REV3, 2019].		
SOW Annex-A SOW Annex-A		Authenticated users SHALL be required to authenticate to the RDP Proxy in accordance with [NAC AC/322-D/0048-REV3, 2019]. An authenticated user SHALL only be able to connect to a configured set of network resources.		
SOW Annex-A	[SRS-4-214]	The IEG-C management workstation component SHALL be the Dell Optiplex 5070 SFF.		
SOW Annex-A SOW Annex-A	[SRS-4-216]	The IEG-C management workstation monitor SHALL be the Dell P2419H Monitor. The IEG-C management workstation keyboard SHALL be the Dell KB216 Multimedia Keyboard.	 	
SOW Annex-A SOW Annex-A		The IEG-C management workstation mouse SHALL be the Dell 6 Button Laser Mouse. Any IEG-C component MAY host a Type 1 Hypervisor, provided that the overall IEG-C system design meets the requirements of "Technical	 	
SOW Annex-A		and Implementation Directive for CIS Security" [NAC AC/322-D/0048-REV3, 2019] (see SRS-4-4). The Type 1 Hypervisor for the server and the management workstation, if used, SHALL be the VMWare ESXi hypervisor.		
SOW Annex-A		The Mail Guard SHALL be connected to the High Domain Firewall (via the High Domain Network Switch) and the Low Domain Firewall (via the Low Domain Network Switch) using separate physical network interfaces.		
SOW Annex-A	[SRS-4-220]	The IEG-C power distribution component SHALL be the Powerstrip Conteg.		

SOW Annex-A	(000 4 221)				
SOW Annex-A	[SRS-4-222]	The Firewall components SHALL support 10GbE. The Firewall components SHALL handle at least 90Gb throughput per 24 hour period.			
SOW Annex-A	[SRS-4-223]	The Firewall components SHALL be able to sustain, on average, at least 6Gb/s throughput.		<u> </u>	
SOW Annex-A [SOW Annex-A [The IEG-C_DEX SHALL preserve the Differentiated Services field (DS Field) [IETF RFC 2474, 1998] in the IPv4 and IPv6 Headers. Unless otherwise identified during the Site Survey [SOW-673], the IEG-C and all of its components SHALL be certified to TEMPEST Level C, as			
	(000 4 000)	defined in [SDIP-27/2].			
SOW Annex-A [SOW Annex-A [It SHALL be possible to trigger the graceful shut down from the central and local management solution. The IEG-C shall include secure remote management capabilities providing the ability to integrate the monitoring all IEG-C components into a			
SOW Annex-A [local NATO monitoring solution. The IEG-C shall include secure remote management capabilities providing the ability to manage all IEG-C components locally in case of loss of			
		I ne iEG-C shall include secure remote management capabilities providing the ability to manage all iEG-C components locally in case of loss of connectivity with the central management system.			
SOW Annex-A [[SRS-4-229]	The IEG-C Web Proxy component SHALL support the use Simple Certificate Enrolment Protocol (SCEP) [IETF RFC 8894, 2020] to sign the			
		impersonation certificates that are used to support the interception Transport Layer Security (TLS) version 1.2 protected web (HTTPS) traffic.			
SOW Annex-A	[SRS-4-23]	The Web Guard SHALL be connected to both the High Domain Firewall (via the High Domain Network Switch) and the Low Domain Firewall			
SOW Annex-A [[SRS-4-230]	(via the Low Domain Network Switch) via separate physical interfaces. The IEG-C Web Proxy component SHOULD support the use of Enrolment over Secure Transport (EST) [IETF RFC 7030, 2013] to sign the			
		impersonation certificates that are used to support the interception Transport Layer Security (TLS) version 1.2 protected web (HTTPS) traffic.			
SOW Annex-A	[SRS-4-231]	The IEG-C Web Proxy component SHALL ensure HTTP request or response does not contain any of the configured words/phrases.	<u> </u>		
SOW Annex-A [[SRS-4-232]	The IEG-C Web Proxy component SHALL inspect each of the HTTP request or response, including any attachments, for occurrences of any of			
SOW Annex-A [[SRS-4-233]	the configured words/phrases. The IEG-C Web Proxy component SHALL perform case insensitive and normalised whitespace (stripping leading and trailing white space and	<u> </u>		
		replacing sequences of white space characters with a single space) matching when searching for each of the configured words/phrases in the			
SOW Annex-A [[SRS-4-24]	http request or response and any attachments. The IEG-C shall include secure remote management capabilities providing the ability to monitor and control all IEG-C components remotely	<u> </u>		
		from central NATO management premises.	ļ		
SOW Annex-A [SOW Annex-A [To support the (remote) management of the IEG-C, a Management Domain Network Switch SHALL be provided. The Management Domain Network Switch SHALL be connected to the High Domain Firewall.			
SOW Annex-A	[SRS-4-29]	All IEG-C components SHALL have a connection to the Management Domain Switch.			
SOW Annex-A [[SRS-4-3]	The IEG-C architecture and all of its components SHALL be compliant with "INFOSEC Technical and Implementation Directive for the Interconnection of Communications and Information Systems (CIS)" [NAC, AC/322-D/0030-REV5.			
SOW Annex-A	[SRS-4-30]	The IEG-C wired infrastructure for connecting IEG-C components (that are required to be connected together to support the information			
		exchange requirements for the CIS interconnection) SHALL be based on Ethernet running over fibre optic and copper cables.	l		
SOW Annex-A	[SRS-4-31]	The IEG-C SHALL be conformant with the service interface profiles (SIPs) and NATO Interoperability Standards and Profiles (NISPs) listed in			
		APPENDIX B.		 	
SOW Annex-A [SOW Annex-A [reserved The IEG-C SHALL interface and function correctly with the NATO Computer Incident Response Capability (NCIRC).			
SOW Annex-A	[SRS-4-34]	The IEG-C SHALL interface and function correctly with the NATO Enterprise Service Management and Control (SMC) capability.			
SOW Annex-A [SOW Annex-A [The IEG-C SHALL interface and function correctly with the NATO Public Key Infrastructure (NPKI) capability. The IEG-C SHALL interface and function correctly with the NATO Enterprise Directory Services (NEDS) capability.			
SOW Annex-A		The IEG-C SHALL interface and function correctly with the ON AIS and MS AIS Active Directory Domain Services (ADDS) capability.			
SOW Annex-A [[SRS-4-38]	The IEG-C SHALL interface and function correctly with the Operational Network (ON) Automated Information System (AIS) and Mission Secret (MS) AIS mail exchange capability.			
SOW Annex-A		The IEG-C SHALL interface and function correctly with the ON AIS and MS AIS Domain Name Services (DNS) capability.			
SOW Annex-A [[SRS-4-4]	The IEG-C and all of its components SHALL be configured in accordance with the "Technical and Implementation Directive for CIS Security" [NAC AC/322-D/0048-REV3, 2019].			
SOW Annex-A	[SRS-4-40]	The IEG-C SHALL use fully qualified domain names (FQDN, [IETF RFC 1983, 1996]) for identifying all hosts, unless specifically requested not to.			
SOW Annex-A [[SPS_4_41]	The IEG-C SHALL interface and function correctly with the ON AIS and MS AIS web client and server capability providing SOAP-based and			
		REST-based web services.			
SOW Annex-A [[SRS-4-42]	The IEG-C SHALL interface and function correctly with the ON AIS and MS AIS web client and server capability providing web browsing.			
SOW Annex-A	[SRS-4-43]	The IEG-C SHALL interface and function correctly with the ON AIS and MS AIS Collaboration Services capability providing audio, voice and			
		video services.			
SOW Annex-A [[SRS-4-44]	The IEG-C SHALL interface and function correctly with the ON AIS Information Exchange Gateway Functional Services (IEG-FS) Extensible Messaging and Presence Protocol (XMPP) capability for exchanging text-based collaboration services messages.			
SOW Annex-A	[SRS-4-45]	The IEG-C SHALL interface and function correctly with the ON AIS Information Exchange Gateway Functional Services (IEG-FS) Tactical Data			
SOW Annex-A [[SRS-4-46]	Link (TDL) capability for exchanging TDL-formatted messages. The IEG-C SHALL interface and function correctly with the ON AIS Information Exchange Gateway Functional Services (IEG-FS) Friendly Force	<u> </u>		
		Tracking (FFT) capability for exchanging FFT-formatted messages.	ļ		
SOW Annex-A [SOW Annex-A [The IEG-C SHALL interface and function correctly with the authoritative ON AIS Network Time Protocol (NTP) source. The IEG-C Firewall components (High Domain Firewall and Low Domain Firewall) SHALL be the:			
		Palo Alto Networks PA-3260 with redundant AC power supplies			
SOW Annex-A [SOW Annex-A [All IEG-C components SHALL gracefully shut down on notification from the Uninterruptible Power Supply (UPS). The IEG-C High Domain Firewall component Network Time Protocol (NTP) server SHALL be synchronized to a designated NTP server in the ON			
SOW Annex-A	[51(3-4-31]	AlS domain.			
SOW Annex-A	[SRS-4-52]	The IEG-C High Domain Firewall component SHALL be configured as the Authoritative Network Time Protocol (NTP) source for all IEG-C components (including the Low Domain Firewall) that require to be time synchronised.			
SOW Annex-A [[SRS-4-53]	The IEG-C High Domain Firewall and IEG-C Low Domain Firewall components SHALL enable the capability to support only those Data			
SOW Annex-A [[SDS_4_E4]	Exchange Services as specified in Table 4 (for that component).			
SOW ANNEX-A	[919-4-24]	The IEG-C High Domain Firewall and Low Domain Firewall components SHALL be configurable to support the enforcement of the following IEG-C IFPs (see Section 3.4.4):	ł		
		IEG-C_IFP_CA_HL - Communications Access Services High to Low IFP; IEG-C_IER_CA_HL_Communications Access Services Low to High IER; and	ł		
		IEG-C_IFP_CA_LH - Communications Access Services Low to High IFP; and, IEG-C_IFP_CS_MGMT - Core Services Management Services IFP	ł		
SOW Annex-A	[SRS-4-55]	The IEG-C High Domain Firewall and Low Domain Firewall components SHALL enable the capability to configure the IEG-C_IFP_CA_HL and			
		IEG-C_IFP_CA_LH IFPs to allow only authorized systems/hosts to exchange data between the high domain and the low domain.			
SOW Annex-A	[SRS-4-56]	The IEG-C High Domain Firewall and Low Domain Firewall components SHALL enable the capability to configure the IEG-C_IFP_CA_HL and			
		IEG-C_IFP_CA_LH IFPs in order to allow only those protocols and ports required to support the information exchange requirements for the high domain - low domain interconnection.	1		
SOW Annex-A [[SRS-4-57]	The IEG-C High Domain Firewall and Low Domain Firewall components SHALL enable the capability to configure the IEG-C_IFP_SOA_HL and			
		the IEG-C_IFP_SOA_LH IFPs in order to route authorised HTTP(S) application-level traffic to the appropriate IEG-C guard or proxy component (through the High Side Switch or appropriate Low Side Switch depending upon the source and destination of the HTTP(S) application-level	ł		
		traffic) in the DMZ.	L		
SOW Annex-A [[SRS-4-58]	The IEG-C High Domain Firewall and Low Domain Firewall components SHALL enable the capability to configure the IEG-C_IFP_BS_HL and the IEG-C_IFP_BS_LH IFPs in order to route authorised SMTP application-level traffic to the IEG-C Mail Guard component (through the High Side			
		IEG-C_IPP_BS_IH IPPs in order to route authorised SMTP application-level traffic to the IEG-C Mail Guard component (through the High Side Switch or appropriate Low Side Switch depending upon the source and destination of the SMTP application-level traffic) in the DMZ.	1		
CONV A	[CDC 4 70]				
SOW Annex-A [[3K3-4-59]	The IEG-C High Domain Firewall and Low Domain Firewall components SHALL enable the capability to configure the IEG-C_IFP_IS_HL IFP in order to route authorised RDP application-level traffic to the IEG-C RDP Proxy component (through the High Side Switch depending upon the	ł		
	(000 4 -)	source and destination of the RDP application-level traffic) in the DMZ.	 		
SOW Annex-A [SOW Annex-A [The IEG-C SHALL provide supporting components required for the composition of an IEG-C (see Section 4.7.2). The IEG-C High Domain Firewall and Low Domain Firewall components SHALL enable the capability to configure the IEG-C_IFP_CS_MGMT IFP	}	<u> </u>	
		in order to route authorised management traffic to the appropriate IEG-C component (through the Management Switch) in the DMZ.	ł		
SOW Annex-A [[SRS-4-61]	The IEG-C High Domain Firewall and Low Domain Firewall components SHALL enforce the IEG-C IFPs configured (depending upon the			
		information exchange requirements and protection policy enforced for the CIS interconnection) for the IEG-C.	ļ		
SOW Annex-A	[SRS-4-62]	The IEG-C High Domain Firewall and Low Domain Firewall components SHALL be enabled and configured with the capability for being managed as specified in Section 9.			
SOW Annex-A [[SRS-4-63]	managed as specified in Section 9. The IEG-C High Domain Firewall component SHALL be configured to have at least three network interfaces (NICs: one for the network		1	
		connection to the high domain; one for the network connection to the High Domain Switch; and, one for the network connection to the	ł		
SOW Annex-A [[SRS-4-64]	Management Domain Switch). The IEG-C High Domain Firewall component network interfaces to the high domain SHALL be 1000BASE-SX gigabit Ethernet interfaces.			
				 	
	[SRS-4-65]	The IEG-C High Domain Firewall component network interfaces to the High Domain Switch SHALL be 1000BASE-SX gigabit Ethernet interfaces.	1		
SOW Annex-A [
SOW Annex-A [: SOW Annex-A [:	[SRS-4-66]	The IEG-C High Domain Firewall component network interface to the Management Domain Switch SHALL be a 1000-Base-SX gigabit Ethernet interface.	ļ		

SOW Annex-A	[SRS-4-67]	The IEG-C Network Switch components (High Domain, Low Domain and Management) SHALL be selected from the following list of products:		
		Dell Networking N1124T Switch Dell Networking S3048 Switch		
		Dell Networking S3124F Switch		
		Dell Networking S3148P Switch		
SOW Annex-A SOW Annex-A		The IEG-C Network Switch components SHALL be synchronised to the IEG-C High Domain Firewall component NTP source. The IEG-C Network Switch components SHALL enable the Data Exchange Services as specified in Table 4 (for that component).		
SOW Annex-A		IEG-C_DEX SHALL offer User Datagram Protocol (UDP) [IETF RFC 768, 1980] and Internet Protocol (IP), IPV4 and IPv6, [IETF RFC 791, 1981],		
		[IETF RFC 8200, 2017] over Ethernet interfaces 'Communications Access Services HL' and 'Communications Access Services LH' on top of IEG-		
SOW Annex-A	[SRS-4-70]	C_IF_NET_HIGH and IEG-C_IF_NET_LOW, respectively. The IEG-C High Domain Network Switch and Low Domain Network Switch components SHALL be enabled and configured with the capability		
		for being managed as specified in Section 9.		
SOW Annex-A	[SRS-4-71]	The IEG-C High Domain Switch component SHALL be configured to have at least five network interfaces (NICs: one for the network connection to the High Domain Firewall; one for the network connection to the Mail Guard; one for the network connection to the Web		
		Guard; one for the network connection to the server component; and, one for the network connection to the Management Domain Switch).		
SOW Annex-A	[CDC 4 72]	The IEG-C High Domain Network Switch component network interface to the high domain firewall SHALL be 1000BASE-SX gigabit Ethernet		
		interface.		
SOW Annex-A	[SRS-4-73]	The IEG-C High Domain Network Switch component network interfaces to the Mail Guard, Web Guard, server component and Management		
SOW Annex-A	[SRS-4-74]	Domain Switch SHALL be 1000BASE-SX gigabit Ethernet interfaces. The IEG-C Low Domain Switch components SHALL be configured to have at least five network interfaces (NICs: one for the network		
		connection to the Low Domain firewall; one for the network connection to the Mail Guard; one for the network connection to the Web		
		Guard; one for the network connection to the server component; and, one for the network connection to the Management Domain Switch).		
SOW Annex-A	[SRS-4-75]	The IEG-C Low Domain Network Switch component network interface to the Low Domain Firewall SHALL be 1000BASE-SX gigabit Ethernet		
SOW Annex-A	[SRS-4-76]	interface. The IEG-C Low Doman Network Switch component network interfaces to the Mail Guard, Web Guard, server component and Management		
		Domain Switch SHALL be 1000BASE-SX gigabit Ethernet interfaces.		
SOW Annex-A	[SRS-4-77]	The IEG-C Management Domain Switch component SHALL be configured to have at least seven network interfaces (NICs: one for the		
		network connection to the High Domain Firewall; one for the network connection to the Mail Guard; one for the network connection to the Web Guard; one for the network connection to the server component; one for the network connection to the High Domain Network Switch,		
		one for the network connections to the Low Domain Network Switch and one for the network connection to the Low Domain Firewall).		
SOW Annex-A	[SRS-4-78]	The IEG-C Management Domain Network Switch component network interface to the Firewall SHALL be a 1GbE interface.		
SOW Annex-A		The IEG-C Management Domain Network Switch component network interfaces to the Mail Guard, Web Guard, server component, High		
SOW Annex-A	[SRS-4-8]	Domain Switch and Low Domain Switches SHALL be 1GbE interfaces. IEG-C_DEX SHALL offer HyperText Transport Protocol (HTTP), v1.1 and v2, [IETF RFC 7230, 2014], [IETF RFC 7540, 2014] interface 'SOA		
A		Platform Services HL' on top of 'Communications Access Services HL' and HyperText Transport Protocol (HTTP), v1.1 and v2. [IETF RFC 7230,		
SOW Annex-A	[SRS-4-81]	2014], [IETF RFC 7540, 2014] interface 'SOA Platform Services LH' on top of 'Communications Access Services LH'. The IEG-C Web Proxy component SHALL be synchronised to the IEG-C High Domain Firewall component NTP source.		
SOW Annex-A SOW Annex-A		The IEG-C web Proxy component SHALL be synchronised to the IEG-C High Domain Firewall component NTP source. The IEG-C Web Proxy component SHALL enable the capability to support only those Data Exchange Services as specified in Table 4 (for that		
	(CDC 4 02)	component).		
SOW Annex-A	[SRS-4-83]	The IEG-C Web Proxy component SHALL enable the capability to perform cryptographic operations and key management to support interception of Transport Layer Security (TLS) version 1.2 protected web (HTTPS) traffic.		
SOW Annex-A	[SRS-4-84]	The IEG-C Web Proxy component SHALL be configured to conform to the INFOSEC CIS Security Technical and Implementation Guidance in		
SOW Annex-A	[SRS-4-85]	Support of Public Key Infrastructure - Cryptographic Aspects [NAC AC/322-D[2007]0002-REV1, 2015]. The IEG-C Web Proxy component SHALL be configured to conform to the INFOSEC Technical and Implementation Directive on Cryptographic		
		Security and Cryptographic Mechanisms [NAC AC/322-D/0047-REV2 (INV), 2009].		
SOW Annex-A	[SRS-4-86]	The IEG-C Web Proxy component provided cryptographic mechanism SHALL be configured based on Technical Implementation Guidance on Cryptographic Mechanisms in Support of Cryptographic Services [NAC AC/322-D(2012)0022, 2013].		
SOW Annex-A	[SRS-4-87]	The IEG-C Web Proxy component SHALL use a malware/virus scanner that is included in the NATO Information Assurance Product Catalogue		
SOW Annex-A	[SRS-4-89]	(NIAPC) to check web content for malicious content. The IEG-C Web Proxy components SHALL enable the capability to be configured as a reverse web proxy from the high domain to the low		
SOW Annex-A	[3K3*4*03]	domain.		
SOW Annex-A	[SRS-4-9]	The 'SOA Platform Services HL' and 'SOA Platform Services LH' interfaces SHALL support Transport Layer Security (TLS, [IETF RFC 8446, 2018]).		
SOW Annex-A	[SRS-4-90]	The IEG-C Web Proxy component SHALL be configurable to support the enforcement of the following IEG-C SOA Platform IFPs (see Section		
		3.4.4):		
		IEG-C_IFP_SOA_HL - SOA Platform Services High to Low IFP; and, IEG-C_IFP_SOA_LH - SOA Platform Services Low to High IFP.		
SOW Annex-A	[SRS-4-91]	The IEG-C Web Proxy component SHALL be configurable to support the enforcement of the following IEG-C SOA Platform CIP (see Section		
		3.4.5):		
SOW Annex-A	[SRS-4-92]	IEG-C_CIP_SOA_LH - SOA Platform Services Low to High CIP. The IEG-C Web Proxy component SHALL enable the capability to configure the IEG-C_IFP_SOA_HL IFP in order to guard HTTP application-		
	(000.4.00)	level web browsing requests from the high domain to the low domain.		
SOW Annex-A	[SRS-4-93]	The IEG-C Web Proxy component SHALL enable the capability to configure the IEG-C_IFP_SOA_LH IFP in order to guard HTTP application- level web browsing responses from the low domain to the high domain.		
SOW Annex-A	[SRS-4-94]	The IEG-C Web Proxy component SHALL enable the capability to configure the IEG-C_IFP_SOA_HL and IEG-C_IFP_SOA_LH IFPs to verify that		
		the HTTP request (from the high domain to the low domain) and HTTP response (from the low domain to the high domain) can be released by checking high domain web client access control rules against white or black lists (assuring only authorised high domain clients (or users)		
		have access to the low domain web content).		
SOW Annex-A	[SRS-4-95]	The IEG-C Web Proxy component SHALL enable the capability to configure the IEG-C_IFP_SOA_HL and IEG-C_IFP_SOA_LH IFPs to verify that the HTTP request (from the high domain to the low domain) and HTTP response (from the low domain to the high domain) can be released	l T	
		by checking low domain web server access control rules against white or black lists (assuring only authorised low domain web servers are		
50W/ A	[SRS-4-96]	published and made accessible for high domain clients).		
SOW Annex-A	[013-4-50]	The IEG-C Web Proxy component SHALL enable the capability to configure the IEG-C_IFP_SOA_LH IFP to enforce the IEG-C_CIP_SOA_LH CIP.		
SOW Annex-A	[SRS-4-97]	The IEG-C Web Proxy component SHALL enable the capability to configure the IEG-C_CIP_SOA_LH CIP to verify that all HTTP responses from		
		the low domain to the high domain (to HTTP requests from the high domain to the low domain) do not contain any disallowed attachment types by checking against a white list or black list of attachment types.		
SOW Annex-A	[SRS-4-98]	The IEG-C Web Proxy component SHALL enable the capability to configure the IEG-C_CIP_SOA_LH CIP to verify that all HTTP responses from		
		the low domain to the high domain (to HTTP requests from the high domain to the low domain) contain no malicious content.		
SOW Annex-A	[SRS-4-99]	The IEG-C Web Proxy component SHALL enforce the IEG-C SOA Platform IFPs and SOA Platform CIP configured (depending upon the		
SOW Annex-A	[SRS-5-1]	information exchange requirements and protection policy enforced for the CIS interconnection) for the IEG-C. The IEG-C SHALL have all functionality ready to use for an authorised user after invoking the system function within 5 minutes.		
SOW Annex-A SOW Annex-A		The IEG-C SHALL have all functionality ready to use for an authorised user after invoking the system function within 5 minutes. The IEG-C SHALL be able to support additional system resources (introduction of additional storage capacity or server processing power)		
		without having to modify the system architecture, replace existing components, interrupt or degrade current functional and performance		
SOW Annex-A	[SRS-5-100]	requirements. The IEG-C SHALL be composed of discrete components such that a change to one component has minimal impact on other components.		
SOW Annex-A	[SRS-5-101]	The IEG-C SHALL be able to report its status (healthy, warnings, errors) and 'capacity' related aspects for the [IT] resources used (disk, memory, CPU, network) and the application aspects addressed (load, transactions, users) to the NATO EMS environment (in addition to any		
		project specific requirements).		
SOW Annex-A	[SRS-5-102]	The IEG-C SHALL ensure that the application provides management of Personal Information (e.g., User profile and expertise information) held within the IEG-C.		
SOW Annex-A	[SRS-5-103]	The IEG-C SHALL support remote configuration of all IEG-C components and updates using Microsoft System Center Configuration Manager		
SOW Annex-A	[SRS-5-104]	(SCOM) if available on the platform. IEG-C software assets (including different versions) SHALL have a unique SWID tag assigned.		
SOW Annex-A		The IEG-C SHALL support collection and reporting of asset inventory metrics for all IEG-C components using Microsoft System Centre		
		Configuration Manager, unless an IEG-C component does not support SCOM, including: • Mamoor		
		Memory Operating System		
		Peripherals		
		Services Login tracking		
ł		Software existence and usage		
SOW Annex-A	[SRS-5-106]	Licensing The IEG-C SHALL be effective and efficient in the adaptation for different or evolving hardware, software or other operational or usage		
		environments.		

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SOW Annex-A	[SRS-5-107]	The IEG-C architecture SHALL be designed to permit upgrading for use of new communication, processing and storage technologies during its			
SOW Annex-A	[SRS-5-108]	operational lifetime. The IEG-C SHALL be equipped with an Installation Guide.			
SOW Annex-A		The IEG-C Installation Guide SHALL explain all actions to take in order to install and configure the IEG-C, including COTS components. Every			
		action SHALL be followed by a description (text and/or screenshots) of the feedback which will be displayed.			
SOW Annex-A	[SRS-5-11]	The IEG-C SHALL use the existing interoperability profiles and provide any new profiles into the NATO Interoperability Standards and Profiles [ADatP-34] (NISP) volumes after all implementation is completed.			
SOW Annex-A	[SRS-5-110]	The IEG-C Installation Guide SHALL describe:			
SOW Annex-A		The IEG-C Installation Guide SHALL describe how to configure the system backbone to be able to run the IEG-C.			
SOW Annex-A	[SRS-5-112]	The IEG-C Installation Guide SHALL contain a description of all configuration files. The following points SHALL be described: • The location of the configuration file			
		The location of the configuration file The content of the configuration file			
		 The available settings of the items in the configuration file and their meaning 			
SOW Annex-A	[SRS-5-113]	How to change the configuration file Two copies of the SWID tag file SHALL be installed on each system that the IEG-C software is installed on. The first copy of the tag file SHALL			
50W Autor A	(0	be accessible in the top level directory of the installed software package itself and the second copy of the tag file SHALL be installed in a			
		platform dependent file system location as:			
SOW Annex-A	[SRS-5-114]	<file location="" system="">\regid.1997-08.int.nato\<tagfilename>." The IEG-C SHALL provide a capability to completely uninstall IEG-C application(s)/component(s). The IEG-C uninstallation capability SHALL</tagfilename></file>			
		remove all program files and folders, registry entries, program and group folders, as appropriate, retaining all shared and system files.			
	[SRS-5-115]				
SOW Annex-A SOW Annex-A		The IEG-C uninstallation capability SHALL not adversely impact other installed applications. The IEG-C SHALL store IEG-C temporary files only in the IEG-C's temporary folders in configurable locations.			
SOW Annex-A		An IEG-C System Administrator SHALL be able to successfully deploy (i.e., install and configure) a component in the IEG-C within a time frame			
SOW Annex-A	[SRS-5-118]	of one (1) working day after receiving a maximum of five (5) days of training per component. All software and documentation to be provided by the Contractor under this project SHALL be in English (US) version.			
SOW Annex-A		The IEG-C SHALL automatically detect the availability and re-establishment of network connectivity and SHALL initiate subsequent tasks as			
		though network connectivity had not been lost.			
SOW Annex-A	[SRS-5-12]	The IEG-C software code and components SHALL comply with the latest version of the NATO Interoperability Standards and Profiles (NISP). Any deviation is to be justified and reviewed by the Technical Project Board.			
SOW Annex-A	[SRS-5-121]	The IEG-C SHALL support the use of IPv6 without impaired functionality and performance within a network environment.			
SOW Annex-A	[SRS-5-122]	The IEG-C SHALL be compliant to the requirements specified in this SRS in a virtualized server environment (virtual servers).			
SOW Annex-A	[SRS-5-123]	The IEG-C equipment SHALL NOT be damaged nor suffer loss of data, when any of the ambient temperature and humidity conditions contravene operating limits while power is available.			
SOW Annex-A	[SRS-5-124]	The IEG-C support staff SHALL be able to manually resume normal operation of the IEG-C equipment within five (5) minutes from when			
		ambient temperature and humidity conditions return to within operating limits.			
SOW Annex-A	[SRS-5-125]	The WG SHALL support the concurrent processing of low-to-high and high-to-low traffic and meet the performance objectives for both traffic flows.			
SOW Annex-A	[SRS-5-126]	The WG SHALL support the concurrent execution of low-to-high and high-to-low policy enforcement and meet the performance objectives			
COW AT	[SRS-5-127]	for each.			
SOW Annex-A	[SKS-5-127]	The WG SHALL support the concurrent execution of all functionality offered by the building blocks Data Exchange Services, Protection Policy Enforcement Services, Protection Services and Element Management Services.			
SOW Annex-A	[SRS-5-128]	On interface WG_IF_NET_HIGH (see 6.4.1.2) the WG SHALL be capable of handling at least 50 concurrent receive connections and 50			
SOW Annex-A	[SRS-5-129]	concurrent send side connections. On interface WG_IF_NET_LOW (see 6.4.1.3) the WG SHALL be capable of handling at least 50 concurrent receive connections and 50			
SOW Annex-A	[3K3=3=123]	concurrent send side connections.			
SOW Annex-A		The IEG-C SHALL be compliant with NATO document AC/35-D/2002 "Directive on Security of Information".			
SOW Annex-A SOW Annex-A		The WG SHALL allow an IEG-C System Administrator to perform system management functions regardless of the load on the WG. The WG SHALL support the information exchange of HTTP messages with body size up to ten (10) GB.			
SOW Annex-A		The WG SHALL support parallel processing of HTTP messages, i.e. it SHALL be possible for the WG to subject multiple different HTTP			
		messages to policy enforcement at the same time.			
SOW Annex-A	[SRS-5-134]	The WG SHALL support ³ the following normal loads per message size category: • Very small HTTP messages: a SCNL of 35000 HTTP messages per minute with average message size 15 KB.			
		Small HTTP messages: a SCNL of 180 HTTP messages per minute with average message size 15 KB.			
		Medium HTTP messages: a SCNL of 30 HTTP messages per minute with average message size 30 MB.			
		 Large HTTP messages: a SCNL of 10 HTTP messages per minute with average message size 70 MB. Very large HTTP messages: a SCNL of 2 HTTP messages per minute with average message size 300 MB. 			
SOW Annex-A	[SRS-5-135]	The WG SHALL meet the requirements in [SRS-5-133] under a total normal load TNL with the following constraints on the TNL			
		characteristics: • TNL average message size < 7 MB;			
		 TNL average message size < 7 MB; TNL maximum message size <= 10 GB; 			
		TNL message size distribution: 80% of TNL < 150 KB; 95% of TNL < 30 MB; 98% of TNL < 300 MB.			
SOW Annex-A	[SRS-5-136]	Per size category the average HTTP message processing time T_WG_Proc-Average SHALL meet the following constraints under the size category normal loads from [SRS-5-133]:			
		 Very small HTTP messages: T_WG_Proc-Average < 200 milliseconds; 			
		Small HTTP messages: T_WG_Proc-Average < 3000 milliseconds;			
		Medium HTTP messages: T_WG_Proc-Average < 15000 milliseconds; Large HTTP messages: T_WG_Proc-Average < 60000 milliseconds;			
		 Very large HTTP messages: T_WG_Proc-Average < 240000 milliseconds. 			
SOW Annex-A	[SRS-5-137]	The WG SHALL meet the requirements on HTTP message processing time in [SRS-5-135] under a total normal load TNL with the following			
		constraints on the TNL characteristics: • TNL average message size < 7 MB;			
		• TNL maximum message size <= 10 GB;			
SOW Annex-A	[SRS-5-129]	 TNL message size distribution: 80% of TNL < 150 KB; 95% of TNL < 30 MB; 98% of TNL < 300 MB. If an HTTP message H is processed by the WG that is too large for the category 'Very large HTTP messages', the WG SHALL: 			
JOW ANNEX-A	[010-3-100]	If an HTTP message H is processed by the WG that is too large for the category 'Very large HTTP messages', the WG SHALL: • continue to operate;			
		be responsive to commands issued by a System Administrator;			
		 meet the requirements in [SRS-5-133] under the total normal load TNL; and MAY terminate the processing of H in order to do so. 			
SOW Annex-A	[SRS-5-139]	If, while under the total normal load TNL, a peak load occurs for one of the size categories, the average WG throughput for that size			
		category SHALL meet the following constraints for the peak load stated, while not rejecting HTTP traffic:			
		 Very small HTTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, the average throughput SHALL decrease at most 10% when compared to the SCNL. 			
		Small HTTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, the average			
		throughput SHALL decrease at most 10% when compared to the SCNL.			
		 Medium HTTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, the average throughput SHALL decrease at most 10% when compared to the SCNL. 			
		Large HTTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, the average			
		throughput SHALL decrease at most 10% when compared to the SCNL. • Very large HTTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, the average			
L		throughput SHALL decrease at most 10% when compared to the SCNL.			
SOW Annex-A	[SRS-5-14]	The IEG-C SHALL comply with NATO document "Primary Directive on CIS Security" [AC/35-D/2004-REV3].			-
SOW Annex-A	[SKS-5-140]	If, while under the total normal load TNL, a peak load occurs for one of the size categories, the average HTTP message forwarding time T_WG_Forward-Average for that size category SHALL satisfy the following conditions for the peak load stated, while not rejecting HTTP			
		traffic:			
		• Very small HTTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, T_WG_Forward-			
		Average SHALL increase at most 10% when compared to the SCNL. • Small HTTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, T_WG_Forward-			
		Average SHALL increase at most 20% when compared to the SCNL.			
		Medium HTTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, T_WG_Forward-			
		Average SHALL increase at most 30% when compared to the SCNL' • Large HTTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, T_WG_Forward-			
		Average SHALL increase at most 40% when compared to the SCNL.			
		• Very large HTTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, T_WG_Forward- Average SHALL increase at most 50% when compared to the SCNL.			
	1	nationale strate all rease at most 50% when compared to the SCNE.	1		

SOW Annex-A	[SRS-5-141]	If, while under the total normal load TNL, a peak load occurs for one of the size categories, the average HTTP message processing time T_WC_Proc-Average for that size category SHALL satisfy the following conditions for the peak load stated, while not rejecting HTTP traffic: • Very small HTTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, T_WG_Proc- Average SHALL increase at most 5% compared to normal load. • Small HTTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, T_WG_Proc- Average SHALL increase at most 10% compared to normal load. • Medium HTTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, T_WG_Proc- Average SHALL increase at most 20% compared to normal load. • Large HTTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, T_WG_Proc- Average SHALL increase at most 20% compared to normal load. • Large HTTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, T_WG_Proc- Average SHALL increase at most 20% compared to normal load. • Very large HTTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, T_WG_Proc- Average SHALL increase at most 30% compared to normal load.		
SOW Annex-A	[SRS-5-142]	During peak loads that are larger in size or longer in duration than those specified in [SRS-5-138], [SRS-5-139] and [SRS-5-140], the WG SHALL continue to operate and be responsive to commands issued by a System Administrator, and MAY reject HTTP traffic in order to do so.		
SOW Annex-A	[SRS-5-143]	If peak loads for multiple size categories take place simultaneously, the WG SHALL continue to operate and be responsive to commands Issued by a System Administrator, and MAY reject HTTP traffic in order to do so.		
SOW Annex-A SOW Annex-A		 IS SHALL be possible to configure an upper size limit, L, such that the WG SHALL reject messages that exceed L. The impact of logging by the WG on its performance SHALL remain within the following limits, for the following log severity levels [RFC 5424]: For severity levels 'There's (0), 'Alert' (1), 'Critical' (2), 'Error' (3), 'Warning' (4): no impact on performance; For severity levels 'Notice' (5) and 'Informational' (6): a decrease in throughput of at most 40%. For severity level 'Debug' (7): a decrease in throughput of at most 80%. 		
SOW Annex-A	[SRS-5-146]	The WG SHALL be scalable such that when an increase in traffic occurs, capacity can be increased in order to keep meeting the requirements on Time Behaviour in 5.3.1.2.		
SOW Annex-A		The WG architecture SHALL support horizontal scalability and allow for multiple instances of the WG to be deployed on multiple machines, supporting the information exchange requirements in concert.		
SOW Annex-A		The WG SHALL be vertically scalable, i.e. the WG SHALL be able to adapt its performance characteristics by having additional system resources added such as processing power, memory, disk capacity, or network capacity.		
SOW Annex-A		In order to keep meeting the requirements on Time Behaviour in 5.3.1.2 it SHALL be possible to apply horizontal scalability without disrupting the services offered by any active WG. The IEG-C SHALL be compliant with the NATO document "INFOSEC Technical and Implementation Directive on the Requirement for, and the		
SOW Annex-A		Selection, Approval and Implementation of, Security Tools (5T)" (AC/322-b(2004)0030). The horizontal scaling of the WG SHALL NOT introduce any additional WG management overhead.		
SOW Annex-A		The WG SHALL be dimensioned and configured to be able to scale in performance and support the following per a year for three years without degradation of performance as specified in section 5.3.1.2: • a 200% increase in the SCNL (normal load for each HTTP message size category); • a 50% increase in message size.		
SOW Annex-A SOW Annex-A		The WG SHALL have a high degree of learnability, making it very easy to use for System Administrators even the first time. The WG SHALL score above 80% in user success rate without external support, for System Administrators that have received standard		
SOW Annex-A	· · · ·	training. The WG SHALL notify a System Administrator by e-mail when the audit log reaches 75% of its maximum permitted size.		
SOW Annex-A SOW Annex-A	[SRS-5-158]	The WG SHALL provide a configuration option to set the maximum permitted size of the audit log. The WG SHALL contain residual information protection mechanisms to ensure that purged information is no longer accessible.		
SOW Annex-A		The WG SHALL ensure that newly created objects do not contain information that should not be accessible (i.e. information that has been logically deleted). WG log messages SHALL contain initiating module information, Date/Time (Z), system instance, (log) message, category/severity, user		
SOW Annex-A		(invoker of function), and context information (like mission/session, service/function, parameters, and trace-log). A WG System Administrator SHALL be able to successfully deploy (i.e., install and configure) the WG within a time frame of one (1) working		
SOW Annex-A	[SRS-5-166]	days after receiving a maximum of five (5) days of training. Any IEG-C component SHALL not exceed 2U height. If it is determined (by analysis and/or empirically) that this is not feasible, any deviation		
SOW Annex-A	[SRS-5-17]	request shall be submitted to Purchaser approval. The IEG-C SHALL be compliant with NATO document "Security within the North Atlantic Treaty Organisation" [NAC C-M(2002)49-COR12].		
SOW Annex-A SOW Annex-A		The IEG-C SHALL guarantee all incoming and outgoing formatted messages are valid according to the specified formats. The IEG-C primary security services (access control, confidentiality, integrity, authentication, and non-repudiation) SHALL be supported by		
SOW Annex-A		X.509 The IEG-C SHALL execute the log-in function within 30 seconds.		
SOW Annex-A SOW Annex-A	[SRS-5-20] [SRS-5-208]	The IEG-C X.509 support to primary security services SHALL be compliant with NPKI. The MG SHALL support the concurrent processing of low-to-high and high-to-low traffic and meet the performance objectives for both		
SOW Annex-A	[SRS-5-209]	traffic flows. The MG SHALL support the concurrent execution of low-to-high and high-to-low policy enforcement and meet the performance objectives for each.		
SOW Annex-A SOW Annex-A		The IEG-C SHALL use country codes according to "Letter Codes for Geographical Entities" [STANAG 1059]. The MG SHALL support the concurrent execution of all functionality offered by the building blocks Data Exchange Services, Protection Policy		
SOW Annex-A		Enforcement Services, Protection Services and Element Management Services. On interface MG_IF_NET_HIGH (see section 7.1.2) the MG SHALL be capable of handling at least 50 concurrent receive connections and 50		
SOW Annex-A		concurrent send side connections. On interface MG_IF_NET_LOW (see section 7.1.2) the MG SHALL be capable of handling at least 50 concurrent receive connections and 50		
SOW Annex-A		concurrent send side connections. The MG SHALL queue SMTP messages in the event that policy enforcement functionality is unavailable.		
SOW Annex-A SOW Annex-A	[SRS-5-215]	The MG SHALL allow an IEG-C System Administrator to perform system management functions regardless of the load on the MG. The MG SHALL support the information exchange of SMTP messages with body size up to ten (10) MB.		
SOW Annex-A		The MG SHALL support parallel processing of SMTP messages, i.e. it SHALL be possible for the MG to subject multiple different SMTP messages to policy enforcement at the same time.		
SOW Annex-A		The MG SHALL support[1] a total normal load, TML, with the following normal loads per message size category: • Small SMTP messages: a SCNL of 22 SMTP messages per minute with average message size 70 KB. • Medium SMTP messages: a SCNL of 4 SMTP messages per minute with average message size 250 KB. • Large SMTP messages: a SCNL of 1 SMTP messages per minute with average message size 1 MB.		
SOW Annex-A		The MG SHALL support the total normal load TNL with the following constraints on the TNL characteristics: • TNL average message size < 250 KB; • TNL maximum message size <= 10 MB; • TNL message size distribution: 80% of TNL < 100 KB; 95% of TNL < 500 KB; 98% of TNL < 2.5 MB.		
SOW Annex-A	[SRS-5-219]	Per size category the average SMTP message processing time T_MG_Proc-Average SHALL meet the following constraints under the size (ategory normal loads from [SR5-5:217]: • Small SMTP messages: T_MG_Proc-Average < 200 milliseconds; • Medium SMTP messages: T_MG_Proc-Average < 3000 milliseconds; • Large SMTP messages: T_MG_Proc-Average < 15000 milliseconds;		
SOW Annex-A	[SRS-5-22]	The IEG-C SHALL provide accuracy of timing for messaging time stamps (e.g., time of receipt, send, release authorisation, etc.) to one millisecond. Other system-level functions (e.g., process synchronisation) may require additional accuracy as required for correct operation.		
SOW Annex-A	[SRS-5-220]	The MG SHALL meet the requirements on SMTP message processing time in [SRS-5-219] under a total normal load TNL with the following constraints on the TNL characteristics: • TNL average message size < 250 KB; • TNL maximum message size < 1 MB;		
SOW Annex-A	[SRS-5-221]	TNL message size distribution: 80% of TNL < 100 KB; 95% of TNL < 500 KB; 98% of TNL < 2.5 MB. If an SMTP message M is processed by the MG that is too large for the category 'Large SMTP messages', the MG SHALL: ontinue to operate; eresponsive to commands issued by a System Administrator; eresponsive to commands issued by a System Administrator;		
SOW Annex-A	[SRS-5-222]	 meet the requirements in [SRS-5-219] under the total normal load TNL; and MAY terminate the processing of M in order to do so. If, while under the total normal load TNL, a peak load occurs for one of the size categories, the average MG throughput for that size category SHALL meet the following constraints for the peak load stated, while not rejecting SMTP traffic: Small SMTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, the average throughput SHALL decrease at most 10% when compared to the SCNL. 		
		In rouging of since declass at most low when compared to the SCNL. In Addium ShALL decrease at most 10% when compared to the SCNL. I arge SMTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, the average throughput SHALL decrease at most 10% when compared to the SCNL.		

SOW Annex-A	[SRS-5-223]	If, while under the total normal load TNL, a peak load occurs for one of the size categories, the average SMTP message forwarding time			
		T_MG_Forward-Average for that size category SHALL satisfy the following conditions for the peak load stated, while not rejecting SMTP traffic:			
		 Small SMTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, T_MG_Forward- 			
		Average SHALL increase at most 20% when compared to the SCNL.			
		 Medium SMTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, T_MG_Forward- Average SHALL increase at most 30% when compared to the SCNL. 			
		• Large SMTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, T_MG_Forward-			
SOW Annex-A	[SRS-5-224]	Average SHALL increase at most 40% when compared to the SCNL. If, while under the total normal load TNL, a peak load occurs for one of the size categories, the average SMTP message processing time			
JOW AIMER A	[515 5 224]	T_MG_Proc-Average for that size category SHALL satisfy the following conditions for the peak load stated, while not rejecting SMTP traffic:			
		Small SMTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, T_MG_Proc-Average			
		SHALL increase at most 10% compared to normal load. • Medium SMTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, T_MG_Proc-			
		Average SHALL increase at most 20% compared to normal load.			
		 Large SMTP messages: for a peak load of 2 times the number of messages in the SCNL with a duration of 300 seconds, T_MG_Proc-Average SHALL increase at most 30% compared to normal load. 			
SOW Annex-A	[SKS-5-225]	During peak loads that are larger in size or longer in duration than those specified in [SRS-5-222], [SRS-5-223] and [SRS-5-224], the MG SHALL continue to operate and be responsive to commands issued by a System Administrator, and MAY reject SMTP traffic in order to do so.			
	(CDC 5 22C)				
SOW Annex-A	[SKS-5-22b]	If peak loads for multiple size categories take place simultaneously, the MG SHALL continue to operate and be responsive to commands issued by a System Administrator, and MAY reject SMTP traffic in order to do so.			
SOW Annex-A		It SHALL be possible to configure an upper message size limit, L, such that the MG SHALL reject messages that exceed the size limit L.			
SOW Annex-A	[5K5-5-228]	The impact of logging by the MG on its performance SHALL remain within the following limits, for the following syslog severity levels [RFC 5424]:			
		• For severity levels 'Emergency' (0), 'Alert' (1), 'Critical' (2), 'Error' (3), 'Warning' (4): no impact on performance;			
		 For severity levels 'Notice' (5) and 'Informational' (6): a decrease in throughput of at most 40%. For severity level 'Debug' (7): a decrease in throughput of at most 80%. 			
SOW Annex-A	(CDC C 220)	**. ••• ***			
SOW Annex-A	[5K5-5-229]	The MG SHALL be scalable such that when an increase in traffic occurs, capacity can be increased in order to keep meeting the requirements on Time Behaviour in 5.4.1.2.			
SOW Annex-A SOW Annex-A	[SRS-5-23] [SRS-5-230]	The IEG-C SHALL synchronize its internal system clocks with a source on the ON using the Network Time Protocol (NTP).		-	
Sow Annex-A	· ·	The MG architecture SHALL support horizontal scalability and allow for multiple instances of the MG to be deployed on multiple machines, supporting the information exchange requirements and MG policy in concert.			
SOW Annex-A	[SRS-5-231]	The MG SHALL be vertically scalable, i.e. the MG SHALL be able to adapt its performance characteristics by having additional system resources added such as processing power, memory, disk capacity, or network capacity.	T		
SOW Annex-A	[SRS-5-232]	In order to keep meeting the requirements on Time Behaviour in 5.4.1.2 it SHALL be possible to apply horizontal scalability without			
SOW Annex-A	[SRS-5-233]	disrupting the services offered by any active MG. The horizontal scaling of the MG SHALL NOT introduce any additional MG management overhead.			
SOW Annex-A	[SRS-5-234]	The MG SHALL have a high degree of learnability, making it very easy to use for System Administrators even the first time.			
SOW Annex-A	[SRS-5-235]	The MG SHALL score above 80% in user success rate without external support, for System Administrators that have received standard training.	l T		
SOW Annex-A		The MG SHALL continue to receive and queue messages in the event of unavailability of recipient side networking.			
SOW Annex-A SOW Annex-A	[SRS-5-237] [SRS-5-238]	The MG SHALL continue to dequeue and send messages in the event of unavailability of originator side networking. The MG SHALL notify a System Administrator by e-mail when the audit log reaches 75% of its maximum permitted size.			
SOW Annex-A	[SRS-5-239]	The MG SHALL houry a system Administrator by emain when the addition reactes 75% on its maximum permitted size.			
SOW Annex-A	[SRS-5-24]	The visual design of the IEG-C SHOULD follow the recommendations and guidelines stated in the following Documents: • NATO Visual Identity Guidelines [NATO VIG v3]			
SOW Annex-A	[SRS-5-240]	The MG SHALL contain residual information protection mechanisms to ensure that purged information is no longer accessible.			
SOW Annex-A SOW Annex-A	[SRS-5-241] [SRS-5-242]	The MG SHALL ensure that newly created objects do not contain information that has been purged. Alert messages triggered by the MG (e.g., error, warning, notification and informational messages) SHALL contain initiating module			
		information, context sensitive help or directives on where to find answers and solutions.			
SOW Annex-A	[SRS-5-243]	MG log messages SHALL contain initiating module information, Date/Time(Z), system instance, (log) message, category/severity, user (invoker of function), context information (for example, mission/session, service/function, parameters, and trace-log).			
SOW Annex-A		The IEG-C icons included in the designed solution SHALL be compliant with the ISO 18152 standard series.			
SOW Annex-A SOW Annex-A	[SRS-5-26] [SRS-5-27]	The IEG-C SHALL be compliant with the ISO 9241 standard series. In particular: The IEG-C SHALL be compliant to ISO 9241-125:2017 for the presentation of information.			
SOW Annex-A	[SRS-5-28]	The IEG-C SHALL be compliant to ISO 9241-13 for user guidance.			
SOW Annex-A SOW Annex-A	[SRS-5-29] [SRS-5-3]	The IEG-C SHALL be compliant to ISO 9241-14 for menu dialogues. The IEG-C SHALL be designed to allow future scalability.			
SOW Annex-A	[SRS-5-30]	reserved			
SOW Annex-A SOW Annex-A	[SRS-5-300] [SRS-5-301]	The IEG-C SHALL meet at a minimum the throughput levels defined for the individual data types shown Table 6 . The IEG-C SHALL meet the minimum required throughput defined in Table 6, for at least 99.5% of its Operational time.			
SOW Annex-A	[SRS-5-302]	reserved			
SOW Annex-A	[SRS-5-303]	The Platform SHALL be able to support a throughput increase of 10% every year for a period of 5 years with no degradation of the maximum latency.			
SOW Annex-A		The IEG-C SHALL exhibit a Mean-Time-Between-Failure (MTBF) characteristic of at least 8760 operational hours.			
SOW Annex-A	[SRS-5-305]	The IEG-C SHALL implement Identity and Access Management (IAM) according to the requirements on IAM as specified in the Technical and Implementation Directive on CIS Security [NAC AC/322-D/0048-REV3, 2019].			
SOW Annex-A	[SRS-5-306]	In support of the authentication and authorization of users, the IEG-C and its sub-components SHALL support authentication and			
SOW Annex-A	[SRS-5-308]	authorization based on the RADIUS protocol [IETF RFC 2865, 2000]. The IEG-C SHALL implement multifactor user authentication in accordance with in the Technical and Implementation Directive on CIS			
		Security [NAC AC/322-D/0048-REV3, 2019].			
SOW Annex-A	[SRS-5-309]	The implementation of multifactor authentication by the IEG-C SHALL integrate with the multifactor authentication solution as it is in use in the NATO Enterprise.			
	[SRS-5-31]	The IEG-C SHALL be compliant to ISO 9241-143 for form filling dialogues			
SOW Annex-A SOW Annex-A		The WG System Administrator address SHALL be configurable. The information contained in Table 6 SHALL be used to define key performance indicators (KPIs) for 'Availability', 'Quality' and 'Usage', as			
		defined in [NCIA SMC TA, 2018].			
SOW Annex-A SOW Annex-A	[SRS-5-318] [SRS-5-319]	The IEG-C, as a system, SHALL have an availability of 99.95%. Upon restoration of services, the IEG-C Servers SHALL become fully operational.			
SOW Annex-A	[SRS-5-32]	The IEG-C SHALL be compliant to ISO 9241-171 for accessibility.			
SOW Annex-A	[SRS-5-320]	Any IEG-C component SHALL not exceed 20kg. If it is determined (by analysis and/or empirically) that this is not feasible, any deviation request shall be submitted to Purchaser approval.			
SOW Annex-A	[SRS-5-321]	Any IEG-C component using forced airflow (fan) cooling SHALL be of front-rear type.			
SOW Annex-A	[SRS-5-322]	All IEG-C component SHALL have dual power supply module. If it is determined (by analysis and/or empirically) that this is not feasible, any deviation request shall be submitted to Purchaser approval.			
SOW Annex-A		The IEG-C SHALL be configurable from scratch using the DCIS orchestration and automation toolset.			
SOW Annex-A	[JKJ-J-324]	The IEG-C SHALL include an NSAB/NOS endorsed quick erase feature allowing the complete erasure of all configuration, stored data and software.			
SOW Annex-A	[SRS-5-325] [SRS-5-326]	The quick erase feature SHALL not take longer than 30 minutes.			
SOW Annex-A SOW Annex-A		The quick erase feature SHALL not erase IEG-C backups. The IEG-C backups SHALL be stored on the domain Disaster Recovery System (DRS) or, if the domain DRS is not available, a removable, local			
SOW Annex-A	[SRS-5-328]	backup device. The MG SHALL be dimensioned and configured to be able to scale in performance and support the following per year, for three years,			
SOW ANNEX-A	[515-3-326]	without degradation of performance as specified in section 5.4.1.2:			
		 a 100% increase in the SCNL (normal load for each SMTP message size category); a 50% increase in message size 			
SOW Annex-A	[SRS-5-329]	 a 50% increase in message size. The IEG-C as a system SHALL support the use of multiple instances in parallel, providing same gateway services between identical Low and 			
		High domains and being operated in different physical locations			
SOW A	1000-0-0500	When multiple IEG-C are operated in parallel between identical Low and High domains, it SHALL be possible to identify per information flow, which IEG-C acts as the primary gateway and those which act as alternates			
SOW Annex-A					
SOW Annex-A SOW Annex-A	[SRS-5-331]	The fall back mechanism SHALL support a seamless transition from the primary IEG-C to an alternate IEG-C for users and system			
SOW Annex-A		The fail back mechanism SHALL support a seamless transition from the primary IEG-C to an alternate IEG-C for users and system administrators IIC SHALL be possible to identify on the monitoring system which IEG-C (primary or alternate) is currently servicing each of the information			
SOW Annex-A SOW Annex-A	[SRS-5-331] [SRS-5-332]	administrators It SHALL be possible to identify on the monitoring system which IEG-C (primary or alternate) is currently servicing each of the information flows			
SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-5-331]	administrators It SHALL be possible to identify on the monitoring system which IEG-C (primary or alternate) is currently servicing each of the information flows The IEG-C SHALL be able to operate 72 hours in total isolation from any central management and monitoring system The IEG-C local backup dedicated hardware SHALL be removable in no more than 5 minutes, SHALL not exceed 5kg in weight and SHALL not			
SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-5-331] [SRS-5-332] [SRS-5-333] [SRS-5-334]	administrators It SHALL be possible to identify on the monitoring system which IEG-C (primary or alternate) is currently servicing each of the information flows The IEG-C SHALL be able to operate 72 hours in total isolation from any central management and monitoring system			

SOW Annex-A	[SRS-5-34]	In applications where users must log-on to the system, log-on SHALL be a separate procedure that must be completed before a user is			
	(000 5 05)	required to select among any operational options.			
SOW Annex-A SOW Annex-A		Appropriate prompts for log-on SHOULD be automatically displayed on the user's terminal when accessing the application. User identification procedures SHALL be as simple as possible, consistent with adequate data protection.			
SOW Annex-A		When required, the password SHALL not be echoed on the display. An asterisk (*) or similar symbol will be displayed for each character when			
		inputting secure passwords during log-on.			
SOW Annex-A		Users SHALL be provided feedback relevant to the log-on procedure that indicates the status of the inputs.			
SOW Annex-A	[SRS-5-39]	If a user cannot log-on to a system, a prompt SHOULD be provided to explain the reason for this inability. Log-on processes SHOULD require minimum input from the user consistent with the requirements prohibiting illegal entry.			
SOW Annex-A	[SRS-5-4]	The IEG-C SHALL be expandable and scalable in performance (throughput and bandwidth).			
SOW Annex-A		When a user signals for system log-off, or application exit or shut-down, the system SHOULD check pending transactions to determine if data			
		loss seems probable. If so, the computer SHOULD prompt for confirmation before the log-off command is executed.			
SOW Annex-A	[CDC E 41]	The IEG-C SHALL be available in operational HQs, static and deployed, 24 hours a day, 7 days a week, with an availability rate of 99.5 %.			
30W AIIIex-A	[585-5-41]	The ILG-C STALL be available in operational higs, static and deployed, 24 hours a day, 7 days a week, with an availability rate of 55.3 /8.			
SOW Annex-A	[SRS-5-42]	The IEG-C, including hardware, infrastructure and Operational Software, SHALL be available for use at static sites (via Data Centres) 24 hours			
		per day, 365 days per year with an availability of 99.9% (Level 2 of Operational Continuity).			
SOW Annex-A	[SRS-5-43]	The IEG-C SHALL, despite the presence of hardware or software faults in part of the IEG-C, continue to perform the unaffected IEG-C functions.			
SOW Annex-A	[SRS-5-44]	The IEG-C Servers SHALL gracefully degrade in the condition where any dependent services and components are not available and notify the			
		user of the limited functionality.			
SOW Annex-A	[SRS-5-46]	The IEG-C SHALL provide a rate of fault occurrence of less than 2 failures for 1000 hours of operation in the IEG-C software components, with			
		95% confidence. A failure is defined as an error or cessation in the operation of the software requiring, as a minimum, a restart of the software (for example, a service) to recover.			
SOW Annex-A	[SRS-5-47]	It SHALL be possible to correct any individual fault within the IEG-C within a period of time no greater than sixty (60) minutes.			
SOW Annex-A		The IEG-C SHALL exhibit a mean-time-between-failure (MTBF) characteristic of less than 2 failures every 7000 hours, and that SHALL not be			
		affected by the total number of IEG-C instances which are active during that period. The MTBF measurement SHALL not include failures			
SOW Appay A	[SRS-5-49]	resulting from factors determined to be external to the IEG-C (e.g., loss of domain controller). Reserved			
SOW Annex-A SOW Annex-A		Reserved The IEG-C SHALL be capable of accommodating additional functionality the need for which may arise as well as future technological			
		improvements.			
SOW Annex-A	[SRS-5-50]	The IEG-C SHALL provide authorised users with the ability to perform full and/or incremental backups of the system's data and software			
SOW Annex-A	[SRS-5-507]	without impacting system availability. A MG System Administrator SHALL be able to successfully deploy (i.e., install and configure) the MG within a time frame of one (1) working			
50w Annex-A	[10-5-507]	a MG System Administrator SHALL be able to successfully deploy (i.e., install and configure) the MG within a time frame of one (1) working day after receiving a maximum of five (5) days of training.			
SOW Annex-A	[SRS-5-51]	The IEG-C SHALL maintain full functionality and performance in the event of power failure(s) for a minimum of twenty (20) minutes, prior to			
L		initiating a graceful system shutdown.			
SOW Annex-A	[SRS-5-52]	In case of a failure in the power supply to the IEG-C UPS, the IEG-C SHALL react at 50% battery level with a warning and at 30% battery level with going into graceful system shutdown			
SOW Annex-A	[SRS-5-53]	After going into graceful system shutdown. After going into graceful system shutdown caused by a power failure, the IEG-C SHALL have retained all the relevant data.			
SOW Annex-A		The IEG-C SHALL provide automatic resumption of operation after power restoration, except where this violates security requirements.			
SOW Annex-A	[SRS-5-55]	The IEG-C SHALL queue pending asynchronous (i.e. do not need immediate feedback) requests to an unavailable service and deliver them			
SOW Annex-A	[SRS-5-56]	when the service becomes available again. The IEG-C SHALL provide a Mean Time To Repair (MTTR) after the failure of a critical component of four (4) hours or less.			
SOW Annex-A		The IEG-C SHALL provide a maximum time to restore the service after the failure of a critical component of no greater than six (6) hours at			
		the 95% confidence level.			
SOW Annex-A	[SRS-5-58]	The IEG-C SHALL provide a Time-To-Repair (TTR) of no greater than eight (8) hours for servers and their components at 100% confidence			
SOW Annex-A	[SRS-5-59]	level. In case of IEG-C failure the availability interruption SHALL not exceed two hours.			
SOW Annex-A		The IEG-C SHALL use an architecture that allows horizontal scalability and allows the same component to be deployed on multiple machines			
		supporting the information exchange requirements in concert.			
SOW Annex-A	[SRS-5-60]	The IEG-C SHALL resume/retry IEG-C services in case of high latency/timeout/loss of network connectivity without loss of data. High latency			
SOW Annex-A	[SRS-5-61]	is defined as latency exceeding one (1) minute. The IEG-C SHALL provide a Mean Time Between Maintenance (MTBM) for individual components of greater than six thousand (6000) hours			-
30W AIIIEA-A	[585-5-01]	of continuous operation where the required maintenance action excludes restart of the hardware and software.			
SOW Annex-A	[SRS-5-62]	The IEG-C SHALL provide a MTBM of greater than thousand (1000) hours of continuous operation where the required maintenance action is			
		only a restart of the hardware or software.			
SOW Annex-A	[SRS-5-63]	The IEG-C SHALL comply with security settings, installation guides and configuration guidelines listed in the latest approved version of the NCIA CSSL Security Configuration Catalogue.			
SOW Annex-A	[SRS-5-64]	The IEG-C components SHALL be configured with the latest security patches and updated with the latest security guidelines from the NATO			
		Information Assurance Technical Centre (NIATC).			
SOW Annex-A	[SRS-5-65]	The IEG-C SHALL be capable of operating within the NS and MS WAN environment (including servers, network, services and workstations) in			
		the presence of the currently approved NATO Security Settings (target version to be provided by the Purchaser during the Design Stage). Any deviations from the approved security settings SHALL be identified by the Contractor prior to testing and SHALL be subject to approval of the			
		Purchaser.			
SOW Annex-A	[SRS-5-66]	The IEG-C SHALL uniquely Identify and Authenticate Users.			
SOW Annex-A	[SRS-5-67]	The IEG-C SHALL allow an IEG-C Administrator to manage (create, update, delete) IEG-C User Accounts, password details, and assign User			
SOW Annex-A	[SRS-5-68]	Roles to User Account and manage general access privileges of individual User Accounts. The IEG-C SHALL support the application of a password policy.			
SOW Annex-A SOW Annex-A		The IEG-C SHALL support the application of a password policy. The IEG-C SHALL be configurable to deny the re-use of a specified previous passwords.			
SOW Annex-A		In order to keep meeting the requirements on Time Behaviour in 5.2.1.1 it SHALL be possible to apply horizontal scalability without			
	(CDC F 70)	disrupting the services offered by the IEG-C.			
SOW Annex-A SOW Annex-A		IEG-C SHALL be configurable to lock user accounts after a specified number of unsuccessful authentication attempts. IEG-C passwords SHALL be stored in encrypted form.			
SOW Annex-A		IEG-C SHALL support the locking of accounts that are no longer required for a specified period of time after which they SHALL be deleted.			
SOW Annex-A		The IEG-C SHALL support the protection of User credentials in transit.			
SOW Annex-A SOW Annex-A		The IEG-C SHALL provide privileged IEG-C accounts (e.g., system and security administrator accounts). The IEG-C SHALL allow authenticated Users to manage their password.			┟─────┤
SOW Annex-A		The IEG-C SHALL allow authenticated users to manage their password. The IEG-C SHALL generate audit records for auditable events, addressing, among others, the following events:			
		 system start-up (including re-starts) and shutdown; 			
		 log-on (including log-on attempts) and log-off of individual users 			
		 changes to permissions and privileges of users and groups; changes to security relevant system management information(including audit functions); 			
1		 changes to security relevant system management information(including audit functions); start-up and shutdown of the audit function; 			
1		• any access to security data;			
1		deletion, creation or alteration of the security audit records;			
1		changes to system date and time; unsuccessful attempts to access outcom recourses:			
SOW Annex-A	[SRS-5-77]	unsuccessful attempts to access system resources; Audit tracing in the IEG-C SHALL be permanently effective.			
SOW Annex-A		The IEG-C SHALL protect the information from unauthorised modification or deletion.			
SOW Annex-A	[SRS-5-79]	The IEG-C SHALL establish access permissions to audit information.			
SOW Annex-A		The IEG-C SHALL associate individual user identities to auditable events in the event log.			
SOW Annex-A SOW Annex-A		The IEG-C SHALL include the date and time of each auditable event in the event log. The IEG-C SHALL alert an IEG-C Administrator on failed attempts at log-on.			├
SOW Annex-A		The IEG-C SHALL create and maintain an archive of audit information.			
SOW Annex-A	[SRS-5-84]	The IEG-C SHALL support the retaining of audit information for a specified period of time.	-		
SOW Annex-A	[SRS-5-85]	The IEG-C SHALL record in traceable logs all selected transactions, database activities, technical events (e.g., dataset synchronisation, directory replication) and accessing of data			
SOW Annex-A	[SRS-5-86]	directory replication) and accessing of data. If so configured, the IEG-C SHALL log all configurations changes with the trace to persons or systems.			
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SOW Annex-A	[SRS-5-87]	The IEG-C SHALL generate and maintain an Audit Log for each of the following auditable events, SHALL associate individual User identities to		
		those events, and SHALL include date and time of the event, type of event, User identity, and the outcome (success or failure) of the event: • System start-up and shutdown,		
		the start/end time of usage of system applications (system components) by individual Users		
		 Changes to permissions and privileges of Users and groups, Changes to security relevant system management function, 		
		Configuration changes,		
		 Any access to audit log, Deletion, creation or alteration of the security audit records, 		
		All privileged operations,		
		 All updates of IEG-C access rights, All attempts to delete, write or append the Audit files. 		
	[SRS-5-88] [SRS-5-89]	The IEG-C SHALL use integrity checking countermeasures to ensure that the Audit Log has been archived successfully. The IEG-C SHALL support the following warning system events based on configurable limits:		
		Network bandwidth low;		
		Percentage of disk space left; Percentage of table space left.		
SOW Annex-A	[SRS-5-9]	The IEG-C SHALL be Vertical Scalable, i.e. IEG-C SHALL be able to adapt its performance characteristics by adding additional system resources		
SOW Annex-A	[SRS-5-90]	such as processing power, memory, disk capacity, or network capacity. Sessions SHALL be invalidated when the user logs out.		
SOW Annex-A	[SRS-5-91]	Sessions SHALL timeout after a specified period of inactivity.		
SOW Annex-A SOW Annex-A	[SRS-5-92] [SRS-5-93]	The runtime environment or parser SHALL not be susceptible to XML and XPath injection. The IEG-C SHALL have defences against HTTP parameter pollution attacks, particularly if the application framework makes no distinction		
		about the source of request parameters (GET, POST, cookies, headers, environment, etc.)		
SOW Annex-A SOW Annex-A	[SRS-5-94] [SRS-5-95]	Sensitive data SHALL be sanitized from memory as soon as it is no longer needed. A certificate path SHALL be built and validated from a trusted CA to each Transport Layer Security (TLS) server certificate, and each server		
		certificate SHALL match the Fully Qualified Domain Name of the server.		
	[SRS-5-96] [SRS-5-97]	Failed TLS connections SHALL not fall back to an insecure connection. Certificate paths SHALL be built and validated for all client certificates using configured trust anchors and revocation information.	 	
SOW Annex-A	[SRS-5-98]	The application logic SHALL have protection mechanisms against application crashing, memory access violations (buffer overflow) and		
SOW Annex-A	[SRS-5-99]	unexpected exceptions such as data destruction and resource depletion (Memory, CPU, Bandwidth, Disk Space, etc.). The application SHALL have sufficient access controls to prevent elevation of privilege attacks.		
		The WG MUST provide a data exchange capability WG_DEX that facilitates the mediation of data between the high domain and the low		
SOW Annex-A	[SRS-6-10]	domain. WG_IF_MGMT MUST support an operation 'ReceiveManagement' that receives data from the management domain for processing by the		
		WG.		
SOW Annex-A	[SRS-6-100]	For every action taken, the operation 'Enforce LH SOA Platform IFCPE' SHALL invoke the operation 'Log' (6.7.7.1.1) at the interface 'Event Management' ([SRS-6-342]) and log the action.		
SOW Annex-A	[SRS-6-101]	If WG_IFP_SOA_LH does not permit the release of information due to a policy violation, the WG SHALL invoke the operation 'Log' (6.7.7.1.1)		
SOW Annex-A	[SRS-6-102]	at the interface 'Event Management' ([SRS-6-342]) and log the outcome O_WG_IFCPE ([SRS-6-115]). The WG SHALL ensure that no illicit information flows exist to circumvent the enforcement of WG_IFP_SOA_LH.	 	
		For incoming and outgoing management traffic at WG_IF_MGMT, WG_IFCPE MUST offer an interface 'IFCPE Services Management' that		
SOW Annex-A	[SRS-6-104]	accepts information for further processing. The interface 'IFCPE Services Management' MUST support an operation 'Enforce Management Communications IFCPE' that enforces the	 	
		policy WG_IFP_MGMT.		
SOW Annex-A	[SRS-6-105]	The operation 'Enforce Management Communications IFCPE' SHOULD enforce the policy WG_IFP_MGMT_IN on the following information flow:		
		 Source: Communications Access Services Management Interface -> ReceiveNetworkManagement 		
		Destination: Core Services Management Interface -> ReceiveManagementContent Information: Management traffic.		
		Operation: pass management traffic by ensuring the following conditions:		
SOW Annex-A	[SPS 6 106]	o WG_IFP_MGMT_IN permits information flow. The operation 'Enforce Management Communications IFCPE' SHOULD enforce the policy WG_IFP_MGMT_OUT on the following information		
SOW Annex-A	[3K3-0-100]	flow:		
		Source: Core Services Management Interface -> ForwardManagementContent Detriction: Communications Assess Services Management Interface -> EnsuredNetworkManagement		
		 Destination: Communications Access Services Management Interface -> ForwardNetworkManagement Information: Management traffic. 		
		Operation: pass management traffic by ensuring the following conditions: o WG IFP MGMT OUT permits information flow.		
SOW Annex-A	[SRS-6-107]	If WG_IFP_MGMT_IN or WG_IFP_MGMT_OUT do not permit information flow, the WG SHALL execute the action specified in		
CO14 4	[CDC C 100]	WG_IFP_MGMT.		
SOW Annex-A	[SRS-6-108]	For every action taken, the operation 'Enforce Management Communications IFCPE' SHALL invoke the operation 'Log' (6.7.7.1.1) at the interface 'Event Management' ([SRS-6-342]) and log the action.		
SOW Annex-A	[SRS-6-109]	If WG_IFP_MGMT does not permit the release of information due to a policy violation, the WG SHALL invoke the operation 'Log' (6.7.7.1.1)		
SOW Annex-A	[SRS-6-11]	at the interface 'Event Management' ([SRS-6-342]) and log the outcome O_WG_IFCPE ([SRS-6-115]). WG_IF_WGMT MUST support an operation 'ForwardManagement' that forwards data that has been processed by the WG to the		
CO1/ A	[SRS-6-110]	management domain.		
	[SRS-6-110] [SRS-6-111]	The WG SHALL ensure that no illicit information flows exist to circumvent the enforcement of WG_IFP_MGMT. WG_IFP SHALL be configurable.		
	[SRS-6-112] [SRS-6-113]	WG_IFP SHALL specify the actions ACTIONS that need to be executed by WG_IFCPE. For each action in ACTIONS it SHALL be possible to:		
SOW Annex-A	[5K5-0-113]	For each action in ACTIONS It SHALL be possible to: Enable or disable the action.		
		Instruct WG_IFCPE to ignore the outcome of the execution of the action.		
		 If the outcome O_WG_IFCPE of the execution of the action is negative (e.g. verification or validation fails, or a policy violation was determined): instruct WG_IFCPE to continue the enforcement of WG_IFP, or to stop. 		
SOW Annex-A	[SRS-6-114]	It SHALL be possible to enable or disable the enforcement of each of the following sub-policies:		
		• WG_IFP_CA_LH_IN; • WG_IFP_CA_LH_OUT;		
		• WG_IFP_CA_HL_IN;		
		• WG_IFP_CA_HL_OUT; • WG_IFP_MGMT_IN;		
		• WG_IFP_MGMT_OUT;		
		• WG_IFP_SOA_LH; • WG_IFP_SOA_HL.		
SOW Annex-A	[SRS-6-115]	WG_IFP SHALL specify the level of granularity of the outcome O_WG_IFCPE. It SHALL be possible for WG_IFCPE to distinguish within		
		O_WG_IFCPE: • The sub-policy ([SRS-6-114]) that was enforced when a policy violation was determined;		
		Identification of the action that led to the policy violation;		
SOW Annex-A	[SRS-6-116]	Reason for policy violation. The policies WG_IFP_CA_HL, WG_IFP_CA_LH and WG_IFP_MGMT SHALL specify:		
		• That an information flow (as described in 6.5.1.2.2, 6.5.1.3.2 and 6.5.1.4.2 respectively) is not permitted if the outcome O_WG_IFCPE		
		constitutes a policy violation; • The action the WG shall take in case information flow is not permitted. The possible actions SHALL include:		
		o Silently drop traffic;		
SOW Annex-A	[SRS-6-117]	o Reset the TCP/IP connection. The policy WG_IFP_CA_HL_IN SHALL specify the actions ACTIONS_WG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE'		
		SHALL execute for the information flow described in ([SRS-6-74]).	 	
SOW Annex-A	[SRS-6-118]	ACTIONS_WG_CA_HL_IN SHALL include the following actions: • Filter traffic based on the ruleset RULESET_WG_IFCPE-CA_HL_IN.		
SOW Annex-A	[SRS-6-119]	The policy WG_IFP_CA_HL_OUT SHALL specify the actions ACTIONS_WG_CA_HL_OUT that the operation 'Enforce HL Communications IFCPE'	 	
SOW Annex-A	[SRS-6-12]	SHALL execute for the information flow described in ([SRS-6-75]). WG_DEX MUST offer a TCP/IP [IETF RFC 791, 1981], [IETF RFC 2460, 1998], [IETF RFC 7414, 2015] over Ethernet interface 'Communications		
		Access Services HL' on top of WG_IF_NET_HIGH and WG_IF_NET_LOW.		
SOW Annex-A	[SRS-6-120]	ACTIONS_WG_CA_HL_OUT SHALL include the following actions: • Filter traffic based on the ruleset RULESET_WG_IFCPE-CA_HL_OUT.	 	
SOW Annex-A	[SRS-6-121]	The policy WG_IFP_CA_LH_IN SHALL specify the actions ACTIONS_WG_CA_LH_IN that the operation 'Enforce LH Communications IFCPE'		
SOW Annex-A	[SRS-6-122]	SHALL execute for the information flow described in ([SRS-6-89]). ACTIONS_WG_CA_LH_IN SHALL include the following actions:		
		Filter traffic based on the ruleset RULESET_WG_IFCPE-CA_LH_IN.		
SOW Annex-A	[SRS-6-123]	The policy WG_IFP_CA_LH_OUT SHALL specify the actions ACTIONS_WG_CA_LH_OUT that the operation 'Enforce LH Communications IFCPE' SHALL execute for the information flow described in (ISRS-6-90)		
SOW Annex-A	[SRS-6-123]	The policy WG_IFP_CA_LH_OUT SHALL specify the actions ACTIONS_WG_CA_LH_OUT that the operation 'Enforce LH Communications IFCPE' SHALL execute for the information flow described in ([SRS-6-90]).		

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SOW Annex-A	[SRS-6-124]	ACTIONS_WG_CA_LH_OUT SHALL include the following actions: • Filter traffic based on the ruleset RULESET_WG_IFCPE-CA_LH_OUT.			
SOW Annex-A	[SRS-6-125]	The policy WG_IFP_MGMT_IN SHALL specify the actions ACTIONS_WG_MGMT_IN that the operation 'Enforce Management Communications IFCPE' SHALL execute for the information flow described in [SRS-6-105].			
SOW Annex-A	[SRS-6-126]	ACTIONS_WG_MGMT_IN SHALL include the following actions:			
SOW Annex-A	[SRS-6-127]	Filter traffic based on the ruleset RULESET_WG_IFCPE-MGT_IN. The policy WG_IFP_MGMT_OUT SHALL specify the actions ACTIONS_WG_MGMT_OUT that the operation 'Enforce Management'			
		Communications IFCPE' SHALL execute for the information flow described in [SRS-6-106].			
SOW Annex-A	[SRS-6-128]	ACTIONS_WG_MGMT_OUT SHALL include the following actions: • Filter traffic based on the ruleset RULESET_WG_IFCPE-MGT_OUT.			
SOW Annex-A SOW Annex-A		The policy WG_IFP_CA_HL SHALL specify RULESET_WG_IFCPE-CA_HL_IN and RULESET_WG_IFCPE-CA_HL_OUT. The interface 'Communications Access Services HL' MUST support an operation 'ReceiveInternalNetworkHL' on top of WG_IF_NET_HIGH that			
SOW Annex-A		provides TCP/IP connectivity on the high domain by receiving IP traffic for processing by the WG.			
SOW Annex-A SOW Annex-A		RULESET_WG_IFCPE-CA_HL_IN and RULESET_WG_IFCPE-CA_HL_OUT SHALL be configurable. The policy WG_IFP_CA_LH SHALL specify RULESET_WG_IFCPE-CA_LH_IN and RULESET_WG_IFCPE-CA_LH_OUT.			
SOW Annex-A	[SRS-6-132]	RULESET_WG_IFCPE-CA_LH_IN and RULESET_WG_IFCPE-CA_LH_OUT SHALL be configurable.			
SOW Annex-A SOW Annex-A		The policy WG_IFP_MGMT SHALL specify RULESET_WG_IFCPE-MGT_IN and RULESET_WG_IFCPE-MGT_OUT. RULESET_WG_IFCPE-MGT_IN and RULESET_WG_IFCPE-MGT_OUT SHALL be configurable.			
SOW Annex-A	[SRS-6-135]	Each of the rulesets RULESET_WG_IFCPE-CA_HL_IN, RULESET_WG_IFCPE-CA_HL_OUT, RULESET_WG_IFCPE-CA_LH_IN, RULESET_WG_IFCPE- CA_LH_OUT, RULESET_WG_IFCPE-MGT_IN, RULESET_WG_IFCPE-MGT_OUT_SHALL include:			
		 Identification of traffic flow that is allowed or disallowed based on source and destination IP addresses; 			
		 Identification of traffic that is allowed or disallowed based on protocols and ports; Identification of traffic that is allowed or disallowed based on values of protocol fields. 			
SOW Annex-A	[SRS-6-136]	The policy WG_IFP_SOA_HL SHALL specify: • That a release of information to the low domain is not permitted if O_WG_CIPE_HL ([SRS-6-148]) constitutes a policy violation;			
		 The action the WG shall take in case of a policy violation, see [SRS-6-138]. 			
SOW Annex-A	[SRS-6-137]	The policy WG_IFP_SOA_LH SHALL specify: • That an import of information to the high domain is not permitted if O_WG_CIPE_LH ([SRS-6-155]) constitutes a policy violation;			
	()	The action the WG shall take in case of a policy violation, see [SRS-6-138].			
SOW Annex-A	[SRS-6-138]	The policies WG_IFP_SOA_HL and WG_IFP_SOA_LH SHALL specify the action the WG shall take in case of a policy violation. The possible actions SHALL include:			
		Silently drop traffic; Send an HTTP error response of a specific type;			
		o The type of HTTP error message SHALL be configurable.			
		 Send a custom HTTP error message; The contents of the custom HTTP error message SHALL be configurable. 			
SOM An	[SPS_6 120]	o It SHALL be possible to include the items in [SRS-6-163].			
SOW Annex-A	[SKS-0-139]	The WG MUST provide a content inspection policy enforcement (CIPE) capability WG_CIPE that enables the WG to manage and schedule the routing of content through content filters (by WG_CIS ([SRS-6-190])) in accordance with the WG content inspection policy WG_CIP.			
SOW Annex-A	[SRS-6-14]	The operation 'ReceiveInternalNetworkHL' MUST support error handling as specified in [IETF RFC 7414, 2015].			
SOW Annex-A	[SRS-6-140]	The design and functionality of WG_CIPE SHOULD conform to the NATO CIPE functional specification in [NC3A TN-1486, 2012].			
SOW Annex-A	[SRS-6-395]	If WG_CIPE does not conform to the NATO CIPE functional specification in [NC3A TN-1486, 2012], the proposed functional specification of the WG_CIPE SHALL be de-scribed in the bid response.			
SOW Annex-A	[SRS-6-397]	The WG_CIPE SHALL be able to be configured to support the "Content Inspection Policy Enforcement Profile for a Medium Assurance NATO XML-tabelling Guard" [NC3A TR/2012/SPW007959/03].			
SOW Annex-A		WG_CIPE SHALL ensure that no illicit information flows exist to circumvent the enforcement of WG_CIP.			
SOW Annex-A SOW Annex-A		WG_CIPE SHALL ensure that enforcement actions are executed in the order as specified in WG_CIP ([SRS-6-159]). For the flow of information from WG_IF_NET_HIGH to WG_IF_NET_LOW, WG_CIPE MUST offer an interface 'CIPE Services High to Low' that			
		accepts information for further processing.			
SOW Annex-A SOW Annex-A		The interface 'CIPE Services High to Low' MUST support an operation 'Enforce HL SOA CIPE' that enforces the policy WG_CIP_HL. The operation 'Enforce HL SOA CIPE' MUST support the invocation of the following operations at the interface 'Content Inspection Services'			
		 ([SRS-6-194]) provided by WG_CIS ([SRS-6-190]): Operation 'Initialize' ([SRS-6-199]) that takes as input an identifier CIPE_CF_ID that identifies a content filter in WG_CIS; 			
		Operation 'Filter' ([SRS-6-201]) that takes as input a data object CIPE_DATA and a set of rules CIPE_DATA_RULES for processing CIPE_DATA;			
		 Operation 'Halt' ([SRS-6-203]) that takes as input an attribute CIPE_CF_ID that identifies a content filter in WG_CIS. 			
SOW Annex-A SOW Annex-A		WG_CIPE SHALL determine CIPE_CF_ID, CIPE_DATA and CIPE_DATA_RULES based on the policy WG_CIP_HL. For every action taken, the operation 'Enforce HL SOA CIPE' SHALL invoke the operation 'Log' (6.7.7.1.1) at the interface 'Event Management'			
		([SRS-6-342]) and log the action.			
SOW Annex-A	[SRS-6-148]	WG_CIPE SHALL inform WG_IFCPE of the outcome O_WG_CIPE_HL of the enforcement of WG_CIP_HL based on WG_CIP ([SRS-6-163]).			
SOW Annex-A SOW Annex-A		WG_CIPE SHALL invoke the operation 'Log' (6.7.7.1.1) at the interface 'Event Management' ([SRS-6-342]) and log O_WG_CIPE_HL.			
	-	The interface 'Communications Access Services HL' MUST support an operation 'ForwardInternalNetworkHL' on top of WG_IF_NET_LOW that forwards IP traffic to the low domain.			
SOW Annex-A	[SRS-6-150]	For the flow of information from WG_IF_NET_LOW to WG_IF_NET_HIGH, WG_CIPE MUST offer an interface 'CIPE Services Low to High' that accepts information for further processing.			
SOW Annex-A		The interface 'CIPE Services Low to High' MUST support an operation 'Enforce LH SOA CIPE' that enforces the policy WG_CIP_LH.			
SOW Annex-A	[SRS-6-152]	The operation 'Enforce LH SOA CIPE' MUST support the invocation of the following operations at the interface 'Content Inspection Services' ([SRS-6-194]) provided by WG_CIS ([SRS-6-190]):			
		 Operation 'Initialize' ([SRS-6-199]) that takes as input an identifier CIPE_CF_ID that identifies a content filter in WG_CIS; Operation 'Filter' ([SRS-6-201]) that takes as input a data object CIPE_DATA and a set of rules CIPE_DATA_RULES for processing CIPE_DATA; 			
		 Operation Filter ([SRS-6-203]) that takes as input a data object CIPE_DATA and a set of rules CIPE_DATA_ROLES for processing CIPE_DATA, Operation 'Halt' ([SRS-6-203]) that takes as input an attribute CIPE_CF_ID that identifies a content filter in WG_CIS. 			
SOW Annex-A	[SRS-6-153]	reserved			├
SOW Annex-A		For every action taken, the operation 'Enforce LH SOA CIPE' SHALL invoke the operation 'Log' (6.7.7.1.1) at the interface 'Event Management'			
SOW Annex-A	[SRS-6-155]	[[SRS-6-342]) and log the action. WG_CIPE SHALL inform WG_IFCPE of the outcome O_WG_CIPE_LH of the enforcement of WG_CIP_LH based on WG_CIP ([SRS-6-163]).	-		
SOW Annex-A	[SRS-6-156]	WG CIPE SHALL invoke the operation 'Log' (6.7.7.1.1) at the interface 'Event Management' ([SRS-6-342]) and log O WG CIPE LH.			
SOW Annex-A	[SRS-6-157]	WG_CIP SHALL be configurable.			
SOW Annex-A SOW Annex-A	[SRS-6-159]	WG_CIP SHALL specify the actions ACTIONS that need to be executed by WG_CIS. WG_CIP SHALL specify the order in which ACTIONS need to be executed.			
SOW Annex-A SOW Annex-A	[SRS-6-16]	The operation 'ForwardInternalNetworkHL' MUST support error handling as specified in [IETF RFC 7414, 2015]. For each action in ACTIONS it SHALL be possible to:			
30w Annex-A	[001-0-100]	Enable or disable the action.			
		 Instruct WG_CIPE to ignore the outcome of the execution of the action by WG_CIS (as received from WG_CIS [(SRS-6-206])). If the outcome of the execution of the action by WG_CIS is a policy violation: instruct WG_CIPE to continue the enforcement of WG_CIP, or 			
CON AT	ISPS C 101	to stop.			
SOW Annex-A	[SKS-6-161]	It SHALL be possible to group ACTIONS per the following sub-policies: • WG_CIP_LH_SV;			
		• WG_CIP_LH_HV; • WG_CIP_LH_MD;			
		• WG_CIP_HL_HV;			
SOW Annex-A	[SRS-6-162]	WG_CIP_HL_LV. It SHALL be possible to enable or disable the enforcement of each sub-policy in ([SRS-6-161]).	-		
SOW Annex-A		WG_CIP SHALL specify the level of granularity of the outcomes O_WG_CIS ([SRS-6-205]), O_WG_CIPE_HL ([SRS-6-148]) and O_WG_CIPE_LH			
		([SRS-6-155]). It SHALL be possible for WG_CIS to distinguish within O_WG_CIS, O_WG_CIPE_HL and O_WG_CIPE_LH: The WG_CIS capability that determined a policy violation (WG_CIS_SV ([SRS-6-208]), WG_CIS_HV ([SRS-6-213]), WG_CIS_LV ([SRS-6-219]), 			
		and WG_CIS_MD ([SRS-6-508]); • Identification CIPE_CF_ID of the content filter that determined the policy violation;			
		Identification of the action that led to policy violation;			
		Reason for policy violation.			
SOW Annex-A		The policy WG_CIP_LH_SV SHALL specify the actions ACTIONS_WG_LH_SV that need to be performed by WG_CIS_SV.			
SOW Annex-A	[01-0-0103]	ACTIONS_WG_LH_SV SHALL include the following actions: • Check the HTTP message body for XML well-formedness;			
		 Validate the HTTP message body against a list of W3C XML Schemas LIST_WG_CIS_SV-XS; o Select LIST_WG_CIS_SV-XS based on the URI in the HTTP message startline. 			
		 Check that the namespace of the root node belongs to a list of allowed namespaces LIST_WG_CIS_SV-NS; 			
SOW Annex-A	[SRS-6-166]	o Select LIST_WG_CIS_SV-NS based on the URI in the HTTP message startline. WG_CIP_LH_SV SHALL specify LIST_WG_CIS_SV-XS.			
	•	• • • •		•	

	[SRS-6-167]	LIST_WG_CIS_SV-XS SHALL be configurable.		
	[SRS-6-168] [SRS-6-169]	WG_CIP_LH_SV SHALL include the option to specify a LIST_WG_CIS_SV-XS for a given URI.		
SOW Annex-A		WG_CIP_LH_SV SHALL specify LIST_WG_CIS_SV-NS. WG_DEX MUST offer a TCP/IP [IETF RFC 791, 1981], [IETF RFC 2460, 1998], [IETF RFC 7414, 2015] over Ethernet interface 'Communications		
JOW AIREA A	[515 6 17]	Access Services LH' on top of WG_IF_NET_LOW and WG_IF_NET_HIGH.		
SOW Annex-A	[SRS-6-170]	LIST_WG_CIS_SV-NS SHALL be configurable.		
SOW Annex-A	[SRS-6-171]	WG_CIP_LH_SV SHALL include the option to specify a LIST_WG_CIS_SV-NS for a given URI.		
	[SRS-6-172]	The policy WG_CIP_HL_HV SHALL specify the actions ACTIONS_WG_HL_HV that need to be performed by WG_CIS_HV.		
SOW Annex-A	[SRS-6-173]	ACTIONS_WG_HL_HV SHALL include the following actions based on RULESET_WG_CIS_HV-HL:		
		Verify the information attributes in [SRS-6-214];		
		Add or rewrite a header line; Remove a header line;		
		Add or rewrite a value;		
		Remove a value;		
		Translate a URI to another value;		
		Normalize the URIs in header lines of an HTTP message (i.e. remove all unneeded or escaped characters from a URI and ensure sure all		
		characters that require escaping are escaped).		
SOW Annex-A		WG_CIP_HL_HV SHALL specify RULESET_WG_CIS_HV-HL.		
		RULESET_WG_CIS_HV-HL SHALL be configurable.		
	[SRS-6-176] [SRS-6-177]	The policy WG_CIP_LH_HV SHALL specify the actions ACTIONS_WG_LH_HV that need to be performed by WG_CIS_HV.		
SOW Annex-A	[3K3=0=177]	ACTIONS_WG_LH_HV SHALL include the following actions based on RULESET_WG_CIS_HV-LH: • Verify the information attributes in [SRS-6-214] ;		
		Add or rewrite a header line;		
		 Remove a header line; 		
		Add or rewrite a value;		
		Remove a value;		
		Translate a URI to another value;		
		Normalize the URIs in header lines of an HTTP message (i.e. remove all unneeded or escaped characters from a URI and ensure sure all		
		characters that require escaping are escaped).		
	[SRS-6-178]	WG_CIP_LH_HV SHALL specify RULESET_WG_CIS_HV-LH.		
	[SRS-6-179]	RULESET_WG_CIS_HV-LH SHALL be configurable.	 	
SOW Annex-A	[SRS-6-18]	The interface 'Communications Access Services LH' MUST support an operation 'ReceiveInternalNetworkLH' on top of WG_IF_NET_LOW that provides TCP/IP connectivity on the low domain by receiving IP traffic for processing by the WG		
SOW Appoint	[SRS-6-180]	provides TCP/IP connectivity on the low domain by receiving IP traffic for processing by the WG.	 	
SOW Annex-A	[J07-0-10]	Each of the rulesets RULESET_WG_CIS_HV-HL and RULESET_WG_CIS_HV-LH SHALL include: • Whitelist of allowed values for the information attributes in [SRS-6-214] ;		
		Whitelist of allowed values for the information attributes in [SKS-6-214]; Whitelist of allowed header lines:		
		Header lines that shall be present in the message header;		
		Header lines that shall not be present in the message header;		
		Rules on the start line:		
		o Format MUST be according to [IETF RFC 7230, 2014], or [IETF RFC 7540, 2014], depending on the version;		
		o Allowed values for the scheme;		
		o Allowed values for HTTP version;		
		o All case-insensitive parts MUST be lowercase;		
		o Maximum length of URI;		
		o Maximum number of arguments in URI;		
		o Whitelist of allowed URIs;		
		o Value to translate a given URI to; o Unneeded whitespace SHALL not be present;		
		o Allowed values for 'Status Codes;		
		o Allowed values for 'Reason String''.		
		Rules on the header lines:		
		o Remove headers that are not on the whitelist;		
		o Remove values that are not on the whitelist;		
		o Values that must be added (or rewritten) if not present;		
		o Value to translate a given URI to;		
		o Maximum length of header;		
		o Whitelist of allowed character sets;		
		o All case-insensitive parts MUST be lowercase;		
		o Host header line: MUST match hostname in start-line URI; o Content-Length header line: value MUST be correct.		
	(000 0 404)	•		
	[SRS-6-181]	The policy WG_CIP_HL_LV SHALL specify the actions ACTIONS_WG_HL_LV that need to be performed by WG_CIS_LV.		
SOW Annex-A	[SKS-6-182]	ACTIONS_WG_HL_LV SHALL include the following actions:		
		 Verify that the syntax of the confidentiality metadata label conforms to ADatP-4774 "Confidentiality Metadata Label Syntax" [STANAG 4774]; 		
		• Verify that the binding mechanism used conforms to ADatP-4778 "Metadata Binding Mechanism" [STANAG 4778];		
		Verify that the binding profile that is applied conforms to "XML Signature Cryptographic Artefact Profile" in [STANAG 4778 SRD.2];		
		 Validate the BindingInformation element (see [STANAG 4778]) against a list of W3C XML Schemas LIST_WG_CIS_LV-XS. 		
		Verify that the value of any TransformAlgorithm attribute is allowed according to a list of allowed values LIST_WG_CIS_LV-TR as specified		
		in [STANAG 4778 SRD.2];		
		Verify that the value of any CanonicalizationMethodAlgorithm attribute is allowed according to a list of allowed values LIST_WG_CIS_LV-		
		CM as specified in [STANAG 4778 SRD.2];		
		 Verify that the value of any DigestMethodAlgorithm attribute is allowed according to a list LIST_WG_CIS_LV-DM as specified in [STANAG 4778 SRD.2]; 		
		 4//8 SRD.2]; Verify that the value of any SignatureMethodAlgorithm attribute used for a digital signature is allowed according to a list LIST_WG_CIS_LV- 		
		 verify that the value of any signature inerioux agonthin attribute used for a digital signature is anowed according to a list LIST_wG_CIS_EV- SM_PKI as specified in [STANAG 4778 SRD.2]; 		
		Verify that the value of any SignatureMethodAlgorithm attribute used for a keyed-hash message authentication code (HMAC) is allowed		
		according to a list LIST_WG_CIS_LV-SM_HMAC as specified in [STANAG 4778 SRD.2];		
		 Check the validity of certificates against a certificate revocation list LIST_WG_CIS_LV-CRL or by using OCSP; 		
		Evaluate the binding according to [STANAG 4778] and [STANAG 4778 SRD.2]. Evaluation SHALL include:		
		o Identify the complete set of data objects S that are labelled (i.e. for each data object DO in S there is a confidentiality metadata label CL		
		identified that is bound to DO).		
		o For each data object DO in S, associate the information attributes in ([SRS-6-233]) with DO.		
		For each data object DO in S, verify the values of the information attributes in ([SRS-6-233]) against a Metadata Policy Information File		
		(MPIF) MPIF_NATO;		
		 For each data object DO in S, verify that DO can be released to the low domain based on RULESET_WG_CIS_LV; Sanitize the body of the HTTP message based on RULESET_WG_CIS_LV; (Note that the rule set RULESET_WG_CIS_LV will specify whether or 		
		 Sanitize the body of the HTTP message based on RULESET_WG_CIS_LV; (Note that the rule set RULESET_WG_CIS_LV will specify whether or not data sanitization shall take place.) 		
		 In the case of sanitization of a file for which a filename has been specified of the form <filename.extension>, modify the filename to</filename.extension> 		
		' <filename-sanitized_string-timestamp.extension>' with 'SANITIZED_STRING' and 'TIMESTAMP' as defined in RULESET_WG_CIS_LV.</filename-sanitized_string-timestamp.extension>		
011 1	[CDC 6 102]		 	
SOW Annex-A	[SRS-6-183]	WG_CIP_HL_LV SHALL specify the lists:		
		• LIST_WG_CIS_LV-XS;		
		• LIST_WG_CIS_LV-TR;		
1		• LIST_WG_CIS_LV-CM; • LIST_WG_CIS_LV-DM;		
1		 LISI_WG_CIS_LV-DM; LIST_WG_CIS_LV-SM_PKI; 		
		• LIST_WG_CIS_LV-SM_HMAC;		
OW Anney-A	[SRS-6-184]	• LIST_WG_CIS_LV-SM_HMAC; • LIST_WG_CIS_LV-CRL.	 	
	[SRS-6-184] [SRS-6-185]	UIST_WG_CIS_LV-SM_HMAC; UIST_WG_CIS_LV-CRL. All lists in [SRS-6-183] SHALL be configurable.	 	
SOW Annex-A		• LIST_WG_CIS_LV-SM_HMAC; • LIST_WG_CIS_LV-CRL.	 	

SOW Annex-A	[SRS-6-189]	RULESET_WG_CIS_LV SHALL specify:			
		 The clearance level of the low domain (based on the classification level of the low domain and the clearance levels of the actors in the low domain) in accordance with [STANAG 4774]; 			
		One or more additional (alternative) clearance levels of the low domain, if required.			
		• The clearance level of the high domain (based on the classification level of the high domain and the clearance levels of the actors in the			
		 high domain); One or more additional (alternative) clearance levels of the high domain, if required. 			
		Given a data object DO to which a confidentiality metadata label CL is bound, the requirements R that the values of the information			
		attributes in CL ([SRS-6-233]) must meet in order for DO to be releasable from the high domain to the low domain.			
		o R SHALL be expressed in terms of values of the information attributes in CL ([SRS-6-233]) and values that comprise the clearance levels of the low and the high domain;			
		o It SHALL be possible to express R in terms of a series of AND and OR statements.			
		Rules for releasing a data object for which the binding is granular (as defined in [STANAG 4778]);			
		 Rules for releasing a data object that has an alternative confidentiality metadata label bound to it; Whether or not a confidentiality metadata label and associated binding information for DO shall be removed before release of DO. 			
		Whether or not signatures shall be removed before release of DO.			
		Whether or not data sanitization shall be applied; Solution as a bit the san list of			
		 If data sanitization shall be applied: The rules for data sanitization based on the use of a granular binding; 			
		o Whether or not a confidentiality metadata label and associated binding information for DO shall be removed before release of DO.			
		o Whether or not a confidentiality metadata label and associated binding information for DO shall be regenerated based on the sanitization			
		of DO. • Whether or not the WG shall sign the released content.			
		The text string 'SANITIZED_STRING' which will be added to the filename of sanitized files.			
		 The format of the date variable 'TIMESTAMP' based on RFC 3339 [IETF RFC 3339, 2002]. 			
SOW Annex-A		The operation 'ReceiveInternalNetworkLH' MUST support error handling as specified in [IETF RFC 7414, 2015].			
SOW Annex-A	[SRS-6-190]	The WG MUST provide a content inspection services (CIS) capability WG_CIS that enables WG_CIPE to identify, verify and transform content			
SOW Annex-A	[SRS-6-191]	based on the content inspection policy WG_CIP. For the identification, verification and transformation of content based on WG_CIP, WG_CIS SHOULD provide a content-filter capability as			
		specified in the NATO CIPE functional specification in [NC3A TN-1486, 2012].			
SOW Annex-A	[SRS-6-396]	If WG_CIPE does not conform to the NATO CIPE functional specification in [NC3A TN-1486, 2012], the proposed functional specification of the WG_CIPE SHALL be de-scribed in the bid response.			
SOW Annex-A	[SRS-6-398]	The WG_CIPE SHALL be de-scribed in the bid response. The WG_CIPE SHALL be able to be configured to support the "Content Inspection Policy Enforcement Profile for a Medium Assurance NATO		-	
		XML-Labelling Guard" [NC3A TR/2012/SPW007959/03].			
SOW Annex-A	[SRS-6-192]	WG_CIS SHALL support the message syntax of HTTP messages as defined in Hypertext Transfer Protocol - HTTP/1.1 [IETF RFC 7230, 2014].			
SOW Annex-A		WG_CIS SHALL support XML 1.0 [W3C XML, 2006].			
SOW Annex-A		WG_CIS SHALL support the XML Schema Language 1.0 [W3C XML Schema 1, 2004], [W3C XML Schema 2, 2004].			
SOW Annex-A SOW Annex-A	[SRS-6-195] [SRS-6-196]	WG_CIS SHALL support Canonical XML Version 1.1 [W3X Canonical XML 1.1, 2008]. WG_CIS SHALL support XML Path Language (XPath) Version 1.0 [W3C XML Path Language 1.0, 1999].			
SOW Annex-A	[SRS-6-197]	WG_CIS SHALL support XML Pointer Language (XPointer) [W3C XPointer, 2002].			
SOW Annex-A	[SRS-6-198]	WG_CIS MUST offer an interface 'Content Inspection Services' that serves as a communication mechanism between the content filters and WG_CIPE.			
SOW Annex-A	[SRS-6-199]	WG_CIPE. The interface 'Content Inspection Services' MUST support an operation 'Initialize' that initializes a content filter.			
SOW Annex-A	[SRS-6-2]	WG_DEX MUST offer a physical network interface WG_IF_NET_HIGH that provides Ethernet connectivity to the high domain.			
SOW Annex-A	[SRS-6-20]	The interface 'Communications Access Services LH' MUST support an operation 'ForwardInternalNetworkLH' on top of WG_IF_NET_HIGH that forwards IP traffic to the high domain.			
SOW Annex-A	[SRS-6-200]	The operation 'Initialize' MUST support the identification of a content filter based on a content filter identifier CIPE_CF_ID.			
SOW Annex-A	[SRS-6-201]	The interface 'Content Inspection Services' MUST support an operation 'Filter' that executes a content filter.			
SOW Annex-A	[SRS-6-202]	The operation 'Filter' SHALL accept as input a data object CIPE_DATA and a set of rules CIPE_DATA_RULES for processing CIPE_DATA.			
SOW Annex-A	[SRS-6-203]	The interface 'Content Inspection Services' MUST support an operation 'Halt' that halts a content filter.			
SOW Annex-A		The operation 'Halt' MUST support the identification of a content filter based on a content filter identifier CIPE_CF_ID.			
SOW Annex-A SOW Annex-A		WG_CIS SHALL inform WG_CIPE of the outcome O_WG_CIS of the execution of an action in ACTIONS ([SRS-6-158]). If the outcome O_WG_CIS is negative (e.g. verification or validation fails), WG_CIS SHALL interpret O_WG_CIS a policy violation and inform			
JOW AIMEX A	[5:15 0 200]	WG_CIPE according to WG_CIP ([SRS-6-163]).			
SOW Annex-A	[SRS-6-207]	WG_CIS SHALL invoke the operation 'Log' (6.7.7.1.1) at the interface 'Event Management' ([SRS-6-342]) and log the outcome O_WG_CIS			
SOW Annex-A	[SRS-6-208]	([SRS-6-115]). WG_CIS SHALL provide an XML schema validation capability WG_CIS_SV that comprises the content filters that are executed in order to			
JOW AIIICA A	[515 6 200]	enforce the policy WG_CIP_LH_SV.			
SOW Annex-A	[SRS-6-209]	WG_CIS_SV SHALL enforce WG_CIP_LH_SV based on the contents of the HTTP Message body.			
SOW Annex-A SOW Annex-A		The operation 'ForwardInternalNetworkLH' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_CIS_SV SHALL be able to check the body of an HTTP message for XML well-formedness.			
SOW Annex-A		WG_CIS_SV SHALL be able to validate the body of an HTTP message against a list LIST_WG_CIS_SV-XS of W3C XML Schemas (defined in the			
	(000.0.010)	policy WG_CIP_LH_SV).			
SOW Annex-A	[SKS-6-212]	WG_CIS_SV SHALL be able to check that the namespace of the root node in the HTTP message body belongs to a list of namespaces LIST_WG_CIS_SV-NS (defined in the policy WG_CIP_LH_SV).			
SOW Annex-A	[SRS-6-213]	WG_CIS SHALL provide an HTTP header vetting capability WG_CIS_HV that comprises the filters that are executed in order to enforce the			
SOW Annex-A	[EDE 6 214]	policies WG_CIP_HL_HV and WG_CIP_LH_HV. WG_CIS_HV SHALL enforce WG_CIP_LH_HV and WG_CIP_HL_HV based on the following types of information attributes in the HTTP message			
SOW Annex-A	[3K3=0=214]	header:			
		Start-line:			
		o Method; o Request-URI;			
		o HTTP-version;			
		o Status-code.			
		Message-header: o Field-name;			
		o Field-value.			
SOW Annex-A	[SRS-6-215]	WG_CIS_HV SHALL be able to verify the information attributes in [SRS-6-214] against the rulesets RULESET_WG_CIS_HV-HL and			
SOW Annex-A	[SRS-6-216]	RULESET_WG_CIS_HV-LH (specified in the policies WG_CIP_HL_HV and WG_CIP_LH_HV respectively). WG_CIS_HV SHALL be able to add, remove or rewrite entire header lines of an HTTP message.			
SOW Annex-A	[SRS-6-217]	WG_CIS_HV SHALL be able to add, remove or rewrite values of the information attributes in [SRS-6-214].			
SOW Annex-A		WG_CIS_HV SHALL be able to normalize URIs in header lines of an HTTP message (i.e. remove all unneeded or escaped characters from a URI			
SOW Annex-A	[SRS-6-219]	and ensure sure all characters that require escaping are escaped). WG_CIS MUST provide a label validation capability WG_CIS_LV that comprises the content filters that are executed in order to enforce the			
		policy WG_CIP_HL_LV.			
SOW Annex-A	[SRS-6-22]	WG_DEX MUST offer a HyperText Transport Protocol (HTTP) v1.1 and v2, [IETF RFC 7230, 2014], [IETF RFC 7540, 2014] interface 'SOA			
SOW Annex-A	[SRS-6-220]	Platform Services HL' on top of 'Communications Access Services HL'. WG_CIS_LV MUST support the NATO standard ADatP-4774 "Confidentiality Metadata Label Syntax" [STANAG 4774].	[1	
SOW Annex-A	[SRS-6-221]	WG_CIS_LV MUST support the NATO standard and ADatP-4778 "Metadata Binding Mechanism" [STANAG 4778].			
SOW Annex-A SOW Annex-A		WG_CIS_LV MUST support the binding approaches 'encapsulating' and 'embedded' as defined in [STANAG 4778]. WG_CIS_LV MAY support the binding approach 'detached' as defined in [STANAG 4778].			
SOW Annex-A SOW Annex-A		WG_CIS_LV MAY support the binding approach 'detached' as defined in [STANAG 47/8]. WG_CIS_LV MUST support the binding profile "Simple Object Access Protocol (SOAP) Binding Profile" in [STANAG 4778 SRD.2].			
SOW Annex-A	[SRS-6-225]	WG_CIS_LV MUST support the binding profile "Representational State Transfer (REST) Profile" in [STANAG 4778 SRD.2].			
SOW Annex-A SOW Annex-A	[SRS-6-226] [SRS-6-227]	WG_CIS_LV MUST support the binding profile "XML Signature Cryptographic Artefact Profile" in [STANAG 4778 SRD.2]. WG_CIS_LV MUST support the binding profile "Digital Signature Cryptographic Artefact Profile" in [STANAG 4778 SRD.2].			
SOW Annex-A SOW Annex-A		WG_CIS_LV MUST support the binding profile "Digital Signature Cryptographic Arteract Profile" in [STANAG 4/78 SRD.2]. WG_CIS_LV MUST support the binding profile "Keyed-Hash Message Authentication Code Cryptographic Artefact Profile" in [STANAG 4778			
		SRD.2].			
SOW Annex-A	[SRS-6-229]	WG_CIS_LV SHALL be able to validate a digital signature by invoking the operation 'Verify' (6.6.2.2.3) at the interface 'Public Key Cryptographic Services' ([SRS-6-239]) provided by WG_PKCS (6.6.2.1).			
SOW Annex-A	[SRS-6-23]	The interface 'SOA Platform Services HL' and its operations SHALL be conformant to the following service interface profiles (SIPs), see			
		Appendix B.3:			
		Service Interface Profile for Security Services; Service Interface Profile for REST Security Services;			
		Service Interface Profile for Messaging (SOAP);			
	long o com	Service Interface Profile for REST Messaging.			
SOW Annex-A	[SRS-6-230]	WG_CIS_LV SHALL be able to perform the validation of XML against a list LIST_WG_CIS_LV-XS of W3C XML Schemas (defined in the policy WG_CIP_HL_LV).			
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Logic or the reference in with constructure in the set of the set	SOW Anney-A	[SRS-6-232]	For a given HTTP message WG_CIS_IV SHALL he able to evaluate the hindings in the HTTP message body HR and identify the set of data				
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• All modified objects are recorded with date, time, details of change and user. Image: Control of the operation is Receive/WebContentHI / MUST support the invocation of the operations Verify (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface ?Public Key Cryptographic Services (ISRS-6230) Image: Control of the operation is Receive/WebContentHI / MUST support the invocation of the operations Verify (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface ?Public Key Cryptographic Services (ISRS-6230) Image: Control operation is Receive/WebContentHI / MUST support the generation of an audit log for each of the following Data Exchange Services auditable events: Data Exchange Services start-up and shutdown; Unauthorised attempts to request access to information cross domain; Unauthorised attempts to modify Data Exchange Services configuration; Failed Data Exchange Services operations; Protection Services start-up and shutdown; Protection Services operations; Protection Services content influers; Protection Services content filters; Failed Protection Services content filters; Failed Protection Protection Protection Services content filters; Failed Protection Policy Enforcement Services operations; Failed Protection Policy Enforcement Services start-up and shutdown; Failed Protection Protection Policy Enforcement Services auditable events: Protection Policy Enforcement Services configuration; Failed Protection Policy Enforcement Services configuration; Failed Protection Policy Enforcement Services and the policy Enforcement Services auditable events: Protection Policy Enforcement Se							
SOW Annex-A [SR5-6-26] The operation 'ReceiveWebContentHL' MUST support the invocation of the operations' Verify' (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface 'Public Key Cryptographic Services' (ISR5-6-283)] provided by WG_PKCS (6.6.2.1). SOW Annex-A [SR5-6-260] WG_MGMT_AM SHALL support the generation of an audit log for each of the following Data Exchange Services auditable events: Data Exchange Services start-up and shutdown; Unauthorised attempts to request access to information cross domain; Unauthorised attempts to modify Data Exchange Services configuration; Failed Data Exchange Services operations. SOW Annex-A [SR5-6-261] WG_MGMT_AM SHALL support the generation of an audit log for each of the following Protection Services auditable events:							
SOW Annex-A [SR5-6-260] WG_MGMT_AM SHALL support the generation of an audit log for each of the following Data Exchange Services auditable events: Data Exchange Services start-up and shutdown; Unauthorised attempts to request access to information cross domain; Unauthorised attempts to modify Data Exchange Services configuration; Failed Data Exchange Services operations; Vicauthorised attempts to modify Data Exchange Services configuration; Foretcion Services start-up and shutdown; Foretcion Services start-up and shutdown; Foretcion Services operations; Unauthorised attempts to modify Protection Services configuration; Creation, modification and deletion of Public Key Cryptographic Services keying material; Updates of Content Inspection Services configuration. SOW Annex-A [SR5-6-262] WG_MGMT_AM SHALL support the generation of an audit log for each of the following Protection Policy Enforcement Services auditable events: Foretection Policy Enforcement Services configuration; Updates of Content Inspection Services content filters; Foldel certificate path validation and revocation. SOW Annex-A [SR5-6-262] WG_MGMT_AM SHALL support the generation of an audit log for each of the following Protection Policy Enforcement Services auditable events: Foretcion Policy Enforcement Services operations; Unauthorised attempts to create, modify or delete Content Inspection polices; Unauthorised attempts to create, modify or delete Content Inspection police; Unauthorise	SOW Annex-A	[SRS-6-26]	The operation 'ReceiveWebContentHL' MUST support the invocation of the operations 'Verify' (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the				
• Data Exchange Services start-up and shutdown; • Unauthorised attempts to request access to information cross domain; • Unauthorised attempts to modify Data Exchange Services configuration; • Failed Data Exchange Services operations. SOW Annex-A [SR5-6-261] WG_MGMT_AM SHALL support the generation of an audit log for each of the following Protection Services auditable events: • Protection Services sart-up and shutdown; • Failed Protection Services content tilters; • Failed Protection Services content filters; • Failed Protection Services content filters; • Failed certificate path validation and revocation. • Updates of Content Inspection Services content filters; • Failed certificate path validation and revocation. SOW Annex-A [SR5-6-262] WG_MGMT_AM SHALL support the generation of an audit log for each of the following Protection Policy Enforcement Services auditable events: • Updates of Content Inspection Services content filters; • Failed certificate path validation and revocation. • Updates of Content Inspection Services content filters; • Failed Protection Policy Enforcement Services auditable events: • Protection Policy Enforcement Services start-up and shutdown; • Failed Protection Policy Enforcement Services operations; • Unauthorised attempts to create, modify or delete Content Inspection policies; • Unauthorised attempts to create, modify or delete Content inspection policies. • Unauthorised attempts to create, modify or delete Content inspection policies.	COW 1	[SBS 6 200]					
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• Protection Services start-up and shutdown; • Failed Protection Services operations; • Unauthorised attempts to modify Protection Services configuration; • Creation, modification and deletion of Public Key Cryptographic Services keying material; • Updates of Content Inspection Services content filters; • Failed certificate path validation and revocation. SOW Annex-A [SR5-6-262] WG_MGMT_AM SHALL support the generation of an audit log for each of the following Protection Policy Enforcement Services auditable events: • Protection Policy Enforcement Services operations; • Unauthorised attempts to create, modify or delete Information Flow Control policies; • Unauthorised attempts to create, modify or delete Information Flow Control policies; • Unauthorised attempts to create, modify or delete Content Inspection policy Enforcement • • • • • • • • • • • • • • • • • • •							
• Failed Protection Services operations; • Inauthorised attempts to modify Protection Services configuration; • Unauthorised attempts to modify Protection Services configuration; • Updates of Content Inspection Services configuration; • Updates of Content Inspection Services content filters; • Failed certificate path validation and revocation. SOW Annex-A [SR5-6-262] WG_MGMT_AM SHALL support the generation of an audit log for each of the following Protection Policy Enforcement Services auditable events: • Protection Policy Enforcement Services operations; • Failed Protection Policy Enforcement Services operations; • Unauthorised attempts to create, modify or delete Information Flow Control policies; • Unauthorised attempts to create, modify or delete Content Inspection policies. SOW Annex-A [SR5-6-263] WG_MGMT_AM SHALL support the audit log after a period of time as configured by the Audit Administrator. SOW Annex-A [SR5-6-264] WG_MGMT_AM SHALL by default archive the audit log after a period of time as configured by the Audit Administrator. SOW Annex-A [SR5-6-265] WG_MGMT AM SHALL povide the capability, including integrity checking, to verify that the audit log has been archived correctly.	50W Annex-A	[SRS-6-261]					
• Unauthorised attempts to modify Protection Services configuration; • Creation, modification and deletion of Public Key Cryptographic Services keying material; • Updates of Content Inspection Services content filters; • Failed certificate path validation and revocation. SOW Annex-A [SRS-6-262] WG_MGMT_AM SHALL support the generation of an audit log for each of the following Protection Policy Enforcement Services auditable events: • Protection Policy Enforcement Services auditable events: • Folded certificate path validation and revocation. • Failed Protection Policy Enforcement Services auditable events: • Protection Policy Enforcement Services auditable events: • Protection Policy Enforcement Services start-up and shutdown; • Failed Protection Policy Enforcement Services operations; • Unauthorised attempts to create, modify or delete Content Inspection policies; • Unauthorised attempts to create, modify or delete Content Inspection policies; SOW Annex-A [SRS-6-263] WG_MGMT_AM SHALL byport the archiving of the audit log after a period of time as configured by the Audit Administrator. SOW Annex-A [SRS-6-265] WG_MGMT_AM SHALL by default archive the audit log daily. SOW Annex-A [SRS-6-265] WG_MGMT_AM SHALL provide the capability, including integrity checking, to verify that the audit log has been archived correctly.							
 							
• Failed certificate path validation and revocation. • • • • • • • • • • • • • • • • • • •			 Creation, modification and deletion of Public Key Cryptographic Services keying material; 				
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• Unauthorised attempts to create, modify or delete Content Inspection policies. Image: Content Inspection policies. SOW Annex-A [SRS-6-263] WG_MGMT_AM SHALL support the audit log after a period of time as configured by the Audit Administrator. Image: Content Inspection policies. SOW Annex-A [SRS-6-263] WG_MGMT_AM SHALL by default archive the audit log daily. Image: Content Inspection policies. Image: Content Inspection policies. SOW Annex-A [SRS-6-265] WG_MGMT_AM SHALL by default archive the audit log daily. Image: Content Inspection policies. Image: Content Inspection policies. SOW Annex-A [SRS-6-265] WG_MGMT_AM SHALL provide the capability, including integrity checking, to verify that the audit log has been archived correctly. Image: Content Inspection policies.			Failed Protection Policy Enforcement Services operations;				
SOW Annex-A [S85-6-263] WG_MGMT_AM SHALL support the archiving of the audit log after a period of time as configured by the Audit Administrator. SOW Annex-A [S85-6-264] WG_MGMT_AM SHALL by default archive the audit log daily. SOW Annex-A [S85-6-265] WG_MGMT_AM SHALL by default archive the audit log at configurable intervals. SOW Annex-A [S85-6-266] WG_MGMT_AM SHALL provide the capability, including integrity checking, to verify that the audit log has been archived correctly.							
SOW Annex-A [SR5-6-264] WG_MGMT_AM SHALL by default archive the audit log daily.	SOW/ Appoint	[SBS=6-262]					
SOW Annex-A [SRS-6-265] WG_MGMT_AM SHALL automatically back up audit logs at configurable intervals. SOW Annex-A [SRS-6-266] WG_MGMT_AM SHALL provide the capability, including integrity checking, to verify that the audit log has been archived correctly.							
SOW Annex-A [ISRS-6-266] WG_MGMT_AM SHALL provide the capability, including integrity checking, to verify that the audit log has been archived correctly.						<u> </u>	
	SOW Annex-A	[SRS-6-266]	WG_MGMT_AM SHALL provide the capability, including integrity checking, to verify that the audit log has been archived correctly.				
SOW Annex-A [S85-6-267] WG_MGMT_AM SHALL provide the capability to alert the Audit Administrator when the audit log exceeds a configurable percentage of the	SOW Annex-A	[SRS-6-267]					
Configurable maximum permitted size. SOW Annex-A [SRS-6-268] WG_MGMT_AM SHALL by default set the configurable percentage to 90% of the configurable maximum permitted size.	SOW Annov A	[SRS-6-268]					
SOW AniteX-1 [355-526] WG_WIGMT_AM STRALE UP default are the comparing the preferinger to 50% to the comparate maximum permitted size.						1	

SOW Annex-A [SRS-6- SOW Annex-A [SRS-6- SOW Annex-A [SRS-6-			r	
	27] After receiving an HTTP message, the operation 'ReceiveWebContentHL' SHALL pass the HTTP message to the interface 'IFCPE Services High to Low' ([SRS-6-71]) for further processing.			
SOW Annex-A [SRS-6-				
	271] WG_MGMT_CS MUST support one or more of the following protocols and associated CIS Security Messages for the retrieval of key material, certificates and CRLs:			
1	 Secure LDAP (LDAPS) [IETF RFC 4510 – 4519, 2006]; 			
	 HTTP(S) ([IETF RFC 7230, 2014], [IETF RFC 7540, 2015]. [IETF RFC 8446, 2018], [IETF RFC 2818, 2000]; SOAP ([W3C SOAP 1.1, 2000] and [W3C SOAP 1.2, 2007]). 			
SOW Annex-A [SRS-6-				
SOW Annex-A [SRS-6-	REV3-COR1, 2018]. 273] WG_MGMT_CS MAY support remote checking of the status of certificates using the Online Certificate Status protocol (OCSP) [IETF RFC 6960,			
SOW ATTEX-A [SIG-0	2013].			
SOW Annex-A [SRS-6-				
	 Updating of certificates; Updating of CRLs; 			
SOW Annex-A [SRS-6-	275] WG_MGMT_CS MUST support scheduling of each operation in [SRS-6-274] such that:			
	 The operation will be executed at a configurable date and time, with: o date expressed in years, month and day; 			
	o time expressed in hours and minutes.			
	 When starting at a configurable date and time, the operation will be executed at a configurable regular time interval expressed in days, weeks or months. 			
SOW Annex-A [SRS-6-				
SOW Annex-A [SRS-6-				
SOW Annex-A [SRS-6- SOW Annex-A [SRS-6-				
-	the IFPs and CIPs in support of WG_IFCPE ([SRS-6-70]) and WG_CIPE (6.5.3.1) respectively.			
SOW Annex-A [SRS-6-	 279 The operation 'Manage Protection Policies' SHALL support the following actions: Create policy; 			
	Read policy;			
	Update policy; Delate policy;			
	• Delete policy; • Activate policy;			
	De-activate policy;			
	• Backup policy; • Restore policy.			
SOW Annex-A [SRS-6-	28] The operation 'ReceiveWebContentHL' SHALL persist the HTTP TCP/IP connection from an HTTP client in the high domain until:	1	t	
	 an HTTP Response is received at the interface 'SOA Platform Services LH' (6.4.3.2) and processed by the operation 'ForwardWebContentLH' (6.4.3.2.3); or 			
	 the HTTP TCP/IP connection is timed out by the HTTP client. 			
SOW Annex-A [SRS-6-	280] WG_MGMT_CS MUST support the automated execution of those operations in [SRS-6-279] that comprise a policy update.		[
SOW Annex-A [SRS-6- SOW Annex-A [SRS-6-				
	The policy update will be executed at a configurable date and time, with:			
	o date expressed in years, month and day; o time expressed in hours and minutes.			
	 When starting at a configurable date and time, the policy update will be executed at a configurable regular time interval expressed in days, 			
	weeks or months.			
SOW Annex-A [SRS-6- SOW Annex-A [SRS-6-				
	support WG_PKCS (6.6.2.1).			
SOW Annex-A [SRS-6-	285] The operation 'Manage Public Key Material' SHALL be compliant with CIS Security Technical and Implementation Guidance in Support of Public Key Infrastructure - Cryptographic Artefacts [NAC AC/322-D[2007]0002-REV1, 2015].			
SOW Annex-A [SRS-6-				
	Import and store key material;			
	Install and de-install certificates; Update certificates;			
	Import and update CRLs.			
SOW Annex-A [SRS-6- SOW Annex-A [SRS-6-				
SOW Annex-A [SRS-6-				
	instances of the WG.			
SOW Annex-A [SRS-6-	[29] In support of the use of HTTP persistent connections, the WG SHALL be able to correlate HTTP request and response messages that belong to the same HTTP connection initiated in the high domain.			
SOW Annex-A [SRS-6-				
SOW Annex-A [SRS-6-	(6.7.5). 291] WG MGMT CM MUST support configuration of the WG based on a customizable (pre-loaded) configuration templates (e.g. XML schemas			
SOW Annex-A [SKS-6-	WG_MGM1_CM MUS1 support configuration of the WG based on a customizable (pre-loaded) configuration templates (e.g. XML schemas are pre-installed) in support of common information exchange scenarios.			
SOW Annex-A [SRS-6-	WG_MGMT_CM MUST support the creation and installation (pre-loading) of the configuration templates as described in [SRS-6-291].			
SOW Annex-A [SRS-6-	293] WG_MGMT_CM_MUST support the retrieval of XML artefacts from locations external to the WG.			
SOW Annex-A [SRS-6-				
	artefacts: • Secure LDAP (LDAPS) /IETF RFC 4510 – 4519, 2006);			
	• HTTP(S) ([IETF RFC 7230, 2014], [IETF RFC 7540, 2015] [IETF RFC 8446, 2008], [IETF RFC 2818, 2000];			
CONV. A	• SOAP ([W3C SOAP 1.1, 2000] and [W3C SOAP 1.2, 2007]).			
SOW Annex-A [SRS-6-	 WG_MGMT_CM MUST support automated execution of the following action: Updating of XML artefacts including XML Schemas and MPIFs. 			
SOW Annex-A [SRS-6-	296] WG_MGMT_CM MUST support scheduling of the operation in [SRS-6-291] such that:	İ	1	
	 The operation will be executed at a configurable date and time, with: o date expressed in years, month and day; 			
	o date expressed in years, month and day; o time expressed in hours and minutes.			
	• When starting at a configurable date and time, the operation will be executed at a configurable regular time interval expressed in days,			
SOW Annex-A [SRS-6-	weeks or months. 297] To track WG configuration information, WG MGMT CM SHALL interface to the enterprise configuration management database (BMC ITSM		<u> </u>	
inter A party	Atrium CMDB) via the interface 'SMC Configuration Management' in order to support the enterprise configuration management.			
SOW Annex-A [SRS-6-	298) WG MGMT CM SHALL pass outgoing SMC Messages to the interface 'Core Services Management' (6.4.5.1) for further processing.		<u> </u>	
SOW Annex-A [SRS-6- SOW Annex-A [SRS-6-				
CONV.A				
SOW Annex-A [SRS-6-	B] WG_IF_NET_HIGH MUST support an operation 'ReceiveHigh' that receives (transfer-in) data from the high domain for processing by the WG.			
SOW Annex-A [SRS-6-				
SOW Annex-A [SRS-6-				
SOW Annex-A [SRS-6-	the operating system(s) and platform(s) the WG is running on, and the applications running on the operating system. The operation 'Configure OS' SHALL support SMC Messages of the following types:			
JOW AITIEX-A [SKS-b-	• Secure Shell (SSH, [IETF RFC 4253, 2006]);			
201A HILLEX-Y [2K2-P	 Network Time Protocol (NTP, [IETF RFC 5905, 2010]); Intelligent Platform Management Interface (IPMI, [IPMI V2.0, 2013]); 			
204A MILIEX-Y [2K2-p	 Hypertext Transport Protocol Message (HTTP, [IETF RFC 7230, 2014]). 			
SOW Annex-A [SRS-6-	the capability to configure and manage WG IFCPE ([SRS-6-70]) and WG CIPE (6.5.3.1).		<u> </u>	
	303] The operation 'Configure Protection Policy Enforcement Services' MUST provide the capability to change, capture, duplicate, backup or			
SOW Annex-A [SRS-6- SOW Annex-A [SRS-6-	restore the configuration of WG_IFCPE and WG_CIPE.			
SOW Annex-A [SRS-6-	restore the configuration of WG_IFCPE and WG_CIPE. The operation 'Configure Protection Policy Enforcement Services' SHALL support one or more SMC Messages of the following types:			
SOW Annex-A [SRS-6- SOW Annex-A [SRS-6-	restore the configuration of WG_IFCPE and WG_CIPE.			
SOW Annex-A [SRS-6- SOW Annex-A [SRS-6- SOW Annex-A [SRS-6-	restore the configuration of WG_IFCPE and WG_CIPE. 304] The operation 'Configure Protection Policy Enforcement Services' SHALL support one or more SMC Messages of the following types: • Secure Shell (SSH, [IET RFC 4253, 2006]); • Remote Desktop Protocol (RDP); • Hypertext Transport Protocol (RDP);			
SOW Annex-A [SRS-6- SOW Annex-A [SRS-6-	restore the configuration of WG_IFCPE and WG_CIPE. 304] The operation 'Configure Protection Policy Enforcement Services' SHALL support one or more SMC Messages of the following types: • Secure Shell (SSH, [IETF RFC 4253, 2006]); • Remote Desktop Protocol (RDP); • Hypertext Transport Protocol (Message (HTTP, [IETF RFC 7230, 2014]).			
SOW Annex-A [SRS-6- SOW Annex-A [SRS-6- SOW Annex-A [SRS-6-	restore the configuration of WG_IFCPE and WG_CIPE. 804] The operation 'Configure Protection Policy Enforcement Services' SHALL support one or more SMC Messages of the following types: • Secure Shell (SH, IETF RFC 4253, 2006)]; Remote Desktop Protocol (RDP); • Hypertext Transport Protocol Message (HTTP, [IETF RFC 7230, 2014]). 805] The interface 'SMC Configuration Management' MUST support an operation 'Configure Data Exchange Services' that provides the capability to configure and manage WG_DEX (ISRS-6-1).			

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SOW Annex-A	[SRS-6-307]	The operation 'Configure Data Exchange Services' SHALL support SMC Messages of the following types: • Secure Shell (SSH, [IETF RFC 4253, 2006]);		
		Remote Desktop Protocol (RDP); Hypertext Transport Protocol Message (HTTP, [IETF RFC 7230, 2014]).		
SOW Annex-A	[SRS-6-308]	The interface 'SMC Configuration Management' MUST support an operation 'Configure Protection Services' that provides the capability to configure and manage WG_CIS ([SRS-6-190]) and WG_PKCS (6.6.2.1).		
SOW Annex-A	[SRS-6-309]	The operation 'Configure Protection Services' MUST provide the capability to change, capture, duplicate, backup or restore the configuration		
SOW Annex-A	[SRS-6-31]	of WG_CIS and WG_PKCS. The interface 'SOA Platform Services HL' MUST support an operation 'ForwardWebContentHL' that provides HTTP connectivity on the low		
SOW Annex-A	[SRS-6-310]	domain. The operation 'Configure Protection Services' SHALL support SMC Messages of the following types:		
		Secure Shell (SSH, [IETF RFC 4253, 2006]); Remote Desktop Protocol (RDP);		
SOW Annex-A	[ERE 6 211]	Hypertext Transport Protocol Message (HTTP, [IETF RFC 7230, 2014]). The operation 'Configure Protection Services' MUST provide the capability to manage filters for WG_CIS.		
SOW Annex-A		The management of filters for WG_CIS SHALL include:		
		Installation and de-installation of content filters; Updating of content filters.		
SOW Annex-A SOW Annex-A		The operation 'Configure Protection Services' MUST provide the capability to manage XML artefacts for WG_CIS. The management of XML artefacts for WG_CIS SHALL include:		
		 Loading and removal of XML artefacts (including XML Schemas and MPIFs); Updating of XML artefacts. 		
SOW Annex-A	[SRS-6-315]	WG_MGMT MUST provide a management capability WG_MGMT_CD that provides the capability to manage and respond to cyber-related attacks on the WG.		
SOW Annex-A	[SRS-6-316]	WG_MGMT_CD SHALL pass outgoing Cyber Defence Messages to interface 'Core Services Management' (6.4.5.1) for further processing.		
SOW Annex-A		WG_MGMT_CD_MUST offer an interface 'Cyber Defence' that accepts an incoming 'Cyber Defence Message' for further processing.		
SOW Annex-A		The interface 'Cyber Defence' MUST support an operation 'Assess' that provides the capability to assess damage and attacks/faults of WG components that have been affected by attacks and faults.		
SOW Annex-A SOW Annex-A		The operation 'Assess' SHALL be able to support analysis and evaluation of an attack. After receiving an HTTP Request message from the interface 'IFCPE Services High to Low', the operation 'ForwardWebContentHL' SHALL		
		initiate a new HTTP connection - including the HTTP message - to an HTTP server on the low domain. The new HTTP connection SHALL not use the stateful HTTP protocol attributes associated with the connection in [SRS-6-28].		
SOW Annex-A	[SRS-6-320]	The operation 'Assess' SHALL be able to support the aggregation of cybersecurity-related log, alert, and event data to a central repository or log aggregator as provided by the monitoring infrastructure in use by NCSC.		
SOW Annex-A	[SRS-6-321]	The interface 'Cyber Defence' MUST support an operation 'Respond' that provides the capability to dynamically mitigate the risk identified		
SOW Annex-A	[SRS-6-322]	by a suspected attack/fault. The operation 'Respond' SHALL be able to support the controlling of traffic flows for the purpose of stopping or mitigating an attack or fault.		
SOW Annex-A	[SRS-6-323]	The controlling of traffic flow by WG_MGMT_CD SHALL include:		
		Termination; Throttling to a certain level of bandwidth or with a certain delay;		
SOW Annex-A	[SRS-6-324]	Redirection. The interface 'Cyber Defence' MUST support an operation 'Recover' that provides the capability to take the required action to recover from		
SOW Annex-A		an attack/fault and restore the components of the WG that were affected by the attack/fault.		
SOW Annex-A	[SRS-6-327]	WG_MGMT MUST provide a management capability WG_MGMT_EM that enables the management of events. WG_MGMT_EM SHALL collect events and support the forwarding of events to the event management system (EMS).		
SOW Annex-A SOW Annex-A	[SRS-6-329]	WG_MGMT_EM SHOULD support monitoring based on the Microsoft System Center Operations Manager (SCOM). WG_MGMT_EM SHALL support SNMP v3 [IETF RFC 3412, 2002] with appropriate Management Information Bases (MIBs).		
SOW Annex-A	[SRS-6-33]	After receiving an HTTP Response message from the interface 'IFCPE Services High to Low', the operation 'ForwardWebContentHL' SHALL forward the HTTP message to the low domain using the persisted HTTP connection ([SRS-6-43]).		
SOW Annex-A	[SRS-6-330]	WG_MGMT_EM SHALL provide a toolset which allows WG Administrators to define, filter, correlate and group events according to their context, criticality, source and impacts.		
SOW Annex-A	[SRS-6-331]	WG_MGMT_EM SHALL provide an event correlation toolset that can be either customizable or adaptive to detect normal and abnormal behaviour patterns.		
SOW Annex-A		WG_MGMT_EM SHALL provide the capability to examine recorded historical logs and archives.		
SOW Annex-A		WG_MGMT_EM SHALL support the correlation of requests and responses in order to track all responses (or faults) with the correct request for information access.		
SOW Annex-A		WG_MGMT_EM SHALL provide an event management toolset which allows WG Administrators to customize the building and saving of reports.		
SOW Annex-A SOW Annex-A		The event management toolset SHALL support the provision of visibility on usage patterns over daily, monthly and variable periods. The event management toolset SHALL support trend and abnormal behaviour analysis.		
SOW Annex-A	[SRS-6-338]	WG_MGMT_EM SHALL be able to generate reports of the following types: • Service Level Agreement (SLA) compliance reports;		
		Error/exception reports; Service usage reports;		
SOW Appay A	[SBS 6 220]	Other customizable reports based on captured metrics which can be filtered and sorted based on various criteria.		
SOW Annex-A SOW Annex-A	[SRS-6-34]	WG_MGMT_EM SHALL pass outgoing SMC Messages to interface 'Core Services Management' (6.4.5.1) for further processing. The operation 'ForwardWebContentHL' MUST support Transport Layer Security (TLS, [IETF RFC 8446, 2018]).		
SOW Annex-A		WG_MGMT_EM MUST offer an interface 'Event Management' that generates and forwards 'SMC Messages' in support of the operations 'Log' (6.7.7.1.1), 'Alert' (6.7.7.1.2) and 'Report' (6.7.7.1.3).		
SOW Annex-A	[SRS-6-341]	The interface 'Event Management' MUST support an operation 'Log' that provides the capability to record events that occur in software, or messages between components.		
SOW Annex-A SOW Annex-A		The operation 'Log' SHALL support writing log messages to a log file. The operation 'Log' MUST provide the capability to log request and response attributes. These include:		
		 Time-stamp; Source and target address(es); 		
		• URL;		
		Operation; Size;		
SOW Annex-A		Unique request id (extracted from the request/response or automatically generated by WG_MGMT_EM). The operation 'Log' MUST provide the capability to log attributes extracted from the HTTP headers and HTTP body.		
SOW Annex-A	[SRS-6-345]	The operation 'Log' MUST provide the capability to selectively log whole messages based on pre-configured criteria or filter (e.g. policy based).		
SOW Annex-A	[SRS-6-346]	The operation 'Log' SHALL support SMC Messages one or more of the following types: • Syslog [IETF RFC 5424, 2009];		
SOW Annex-A	[SRS-6-347]	 HTTP Message [IETR RFC 7230, 2014]. The interface 'Event Management' MUST support an operation 'Alert' that provides the capability to generate an alert event when the 		
		acceptable threshold for a service has been reached, or is approached within a certain range.		
SOW Annex-A		The operation 'Alert' SHALL be able to support the generation of an alert of type 'Warning' that indicates it is necessary to take action in order to prevent an exception occurring.		
SOW Annex-A		The operation 'Alert' SHALL be able to support the generation of an alert of type 'Exception' that indicates that a given service is operating below the normal predefined parameters/indicators.		
SOW Annex-A	[SRS-6-35]	The operation 'ForwardWebContentHL' MUST support the invocation of the operation 'Encrypt' (6.6.2.2.4) at the interface 'Public Key Cryptographic Services' ([SRS-6-239]) provided by WG_PKCS (6.6.2.1).		
SOW Annex-A SOW Annex-A		The operation 'Alert' SHALL support SMC Messages of the type SNMP v3 [IETF RFC, 3412, 2002]. The interface 'Event Management' MUST support an operation 'Report' that provides the capability to generate reports in support of		
SOW Annex-A		compliance, auditing, billing and service value determination. The operation 'Report' SHALL support SMC Messages of the type SNMP v3 [IETF RFC 3412, 2002].		
SOW Annex-A SOW Annex-A		WG_MGMT MUST provide a management capability WG_MGMT_PM that enables the management of the performance and capacity of the		
SOW Annex-A		WG. WG_MGMT_PM MUST SHALL provide customizable dashboards for monitoring selected statistics and metrics for WG services.		
SOW Annex-A SOW Annex-A		WG_MGMT_PM SHALL pass outgoing SMC Messages to interface 'Core Services Management' (6.4.5.1) for further processing. WG_MGMT_PM MUST offer an interface 'Performance Management' that generates and forwards 'SMC Messages' in support of the		
SOW Annex-A	[SRS-6-357]	operations 'Monitor'(6.7.8.2.2), 'Meter' (6.7.8.2.3) and 'Track Messages' (6.7.8.2.4). The interface 'Performance Management' MUST support an operation 'Monitor' that provides the capability to observe and track the		
SOW Annex-A		The operations and activities of end users (services) on the WG. The operation 'Monitor' SHALL support the real-time monitoring of WG services against expected Key Performance Indicators (KPI), SLA or		
SOW Annex-A		other metric thresholds as configured.		
SOW Annex-A	[SRS-6-36]	The operation 'Monitor' SHALL support the monitoring service faults and exceptions. The operation 'ForwardWebContentHL' MUST support error handling as specified in [IETF RFC 7231, 2014].		
SOW Annex-A	[DK2-0-300]	The operation 'Monitor' SHALL support SMC Messages of the type SNMP v3 [IETF RFC 3412, 2002].	1	1

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SOW Annex-A		The interface 'Performance Management' MUST support an operation 'Meter' that provides the capability to measure levels of resource utilization consumed by service subscribers.			
SOW Annex-A SOW Annex-A		The operation 'Meter' SHALL support the storing of measured data for the purpose of summarizing and analysis. The operation 'Meter' SHALL provide the capability to collect and present the statistics on service utilisation broken down by end user or			
SOW Annex-A		system. The operation 'Meter' SHALL support the collection of statistics for a given end user or system or group of end user or system over specified			
		periods of time.			
SOW Annex-A SOW Annex-A		The operation 'Meter' SHALL support SMC Messages of the type SNMP v3 [IETF RFC 3412, 2002]. The interface 'Performance Management' MUST support an operation 'Track Messages' that provides the capability to track, monitor and log			
SOW Annex-A	[SRS-6-367]	all message routing and service invocation activities. The operation 'Track Messages' SHALL provide the capability to track, monitor, and log all access requests for information from the high			
SOW Annex-A	[SRS-6-368]	domain to the low domain. The operation 'Track Messages' SHALL provide the capability to track, monitor, and log all responses to access requests for information from			
SOW Annex-A	[SRS-6-369]	the high domain to the low domain. The operation 'Track Messages' SHALL provide the capability to track, monitor, and log all access requests for information from the low			
SOW Annex-A	[SRS-6-37]	domain to the high domain. WG DEX MUST offer a HyperText Transport Protocol (HTTP), v1.1 and v2, [IETF RFC 7230, 2014], [IETF RFC 7540, 2014] interface 'SOA			
SOW Annex-A		Platform Services LH' on top of "Communications Access Services LH". The operation 'Track Messages' SHALL provide the capability to track, monitor, and log all responses to access requests for information from			
		the low domain to the high domain.			
SOW Annex-A SOW Annex-A		The operation 'Track Messages' SHALL support SMC Messages of the type SNMP v3 [IETF RFC 3412, 2002]. WG_PKCS SHALL support the use Simple Certificate Enrolment Protocol (SCEP) [IETF RFC 8894, 2020] to sign the impersonation certificates			
SOW Annex-A	[SRS-6-373]	that are used to support the interception Transport Layer Security (TLS) version 1.2 protected web (HTTPS) traffic. WG_PKCS SHOULD support the use of Enrolment over Secure Transport (EST) [IETF RFC 7030, 2013] to sign the impersonation certificates			
SOW Annex-A	[SRS-6-374]	that are used to support the interception Transport Layer Security (TLS) version 1.2 protected web (HTTPS) traffic. The PKE module SHALL be validated according to the Smart Card Protection Profile [SCSUG-SCPP, 2001] or validated to at least FIPS 140-2			
		Level 2 [NIST FIPS 1402, 2001], or otherwise verified to an equivalent level of functionality and assurance by a NATO nation COMSEC authority. Ref.: [NAC AC/322-D(2004)0024-REV3-COR1, 2018].			
SOW Annex-A	[SRS-6-375]	The PKE module used by the WG SHALL be a NATO-approved cryptographic module with NATO-approved methods for key management (i.e. generation, access, distribution, destruction, handling, and storage of keys), and for cryptographic operations (i.e. encryption, decryption,			
		signature, hashing, key exchange, and random-number-generation services) as described in [NAC AC/322-D(2007)0002-REV1, 2015].			
SOW Annex-A	[SRS-6-376]	The PKE module SHALL be evaluated according to the US Government Basic Robustness PKE PP with CPV - Basic Package, CPV - Basic Policy Package, CPV - Policy Mapping Package, CPV - Name Constraints Package, PKI Signature Verification Package, Online Certificate Status			
SOW Annex-A	[SRS_6-277]	Package, CPV - Poincy Wapping Package, CPV - Name Constraints Package, PN signature vermination Package, Online Certificate Status Protocol Client Package and Audit Package at EAL 4. Any operating system of the WG is a trusted and securely configured operating system. The operating system is evaluated according to			
JOW AIINEX-A	[313-0-377]	[OSPP, 2010] extended with [OSPP EP-IV, 2010] and [OSPP EP-TB, 2010] (or equivalent) and configured according to relevant NATO guidance			
SOW Annex-A	[SRS-6-378]	and directives. Ref.: [AC AC/322-D/0048-REV3, 2019] If the WG is a distributed system S (consisting of one or more hardware platforms or operating systems) it SHALL implement	<u> </u>		
		measures that prevent eavesdropping on communication channels between the systems (hardware platforms or operating systems) that comprise S.			
SOW Annex-A	[SRS-6-379]	The operating system depends on the underlying platform, which consists of hardware (processors, memory, and devices) and firmware. The underlying platform MUST provide functions that allow the operating system to:			
		(i) Protect devices and areas of main memory from being directly accessed (without that access being mediated by the operating system) by untrusted subjects.			
		(ii) Protect any other function of the underlying platform from being used by untrusted subjects in a way that would violate the security policy of the operating system.			
		(iii) Ensure that any information contained in a protected resource is not released when the resource is reallocated; this includes ensuring that no residual information from a previously relayed message is transmitted.			
		(iv) Enable enforcement of direction of information flow between the WG components 'WG security policy enforcement', 'high side http			
SOW Annex-A	[SRS-6-38]	connectivity' and 'low side http connectivity' in Figure 20. The interface 'SOA Platform Services LH' and its operations SHALL be conformant to the following service interface profiles (SIPs), see			
		Appendix A.3: • Service Interface Profile for Security Services;			
		Service Interface Profile for REST Security Services; Service Interface Profile for Messaging (SOAP);			
SOW Annex-A	[SRS-6-380]	 Service Interface Profile for REST Messaging. The WG hardware and firmware MUST be selected such that requirement [SRS-6-377] is met⁶. 			
SOW Annex-A	[SRS-6-381]	The WG SHALL provide well specified administrator roles in order to isolate administrative actions, and to make the administrative functions available locally and remotely.			
SOW Annex-A SOW Annex-A		The WG SHALL display an advisory warning regarding use of the WG. The WG SHALL provide a mode from which recovery or initial start-up procedures can be performed.			
SOW Annex-A		The WG SHALL provide all the functions and facilities necessary to support the WG Administrators in their management of the security of			
SOW Annex-A	[SRS-6-385]	the WG, and restrict these functions and facilities from unauthorized use. The WG SHALL provide a means to ensure that WG Administrators are not communicating with some other entity pretending to be the WG			
SOW Annex-A	[SRS-6-386]	when supplying identification and authentication data. The WG SHALL provide the ability for a CIS Security Administrator to revoke the user's access through the TOE and TOE's ability to mediate			
		data traffic: if the CIS Security Administrator revokes a user's access (e.g. by revoking an administrative role from a user) or modifies an information flow policy, the TOE SHALL immediately enforce the new CIS-Security-Administrator-defined policy.			
SOW Annex-A SOW Annex-A	[SRS-6-388]	The WG SHALL provide the capability to detect and create records of security-relevant events associated with users. The WG SHALL provide the capability to protect audit information.			
SOW Annex-A	[SRS-6-389]	The WG SHALL provide the capability to selectively view audit information, and alert the Audit Administrator of identified potential security violations.			
SOW Annex-A		The interface 'SOA Platform Services LH' MUST support an operation 'ReceiveWebContentLH' that provides HTTP connectivity on the low domain.			
SOW Annex-A SOW Annex-A		The WG SHALL provide reliable time stamps and the capability for a WG Administrator to set the time used for these time stamps. The WG SHALL provide a means to detect and reject the replay of authentication data as well as other data and security attributes used by			
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	[SRS-6-3921	the WG-SF. The WG SHALL provide mechanisms that mitigate attempts to exhaust resources provided by the WG and thus protect availability of high			1
	[SRS-6-392]	The WG SHALL provide mechanisms that mitigate attempts to exhaust resources provided by the WG and thus protect availability of high side resources.			
SOW Annex-A	(SRS-6-393)	The WG SHALL provide mechanisms that mitigate attempts to exhaust resources provided by the WG and thus protect availability of high side resources. The WG SHALL provide mechanisms that control a user's logical access to the WG and to explicitly deny access to specific users when appropriate.			
SOW Annex-A SOW Annex-A	(SRS-6-393)	The WG SHALL provide mechanisms that mitigate attempts to exhaust resources provided by the WG and thus protect availability of high side resources. The WG SHALL provide mechanisms that control a user's logical access to the WG and to explicitly deny access to specific users when appropriate. The WG-SF SHALL maintain a domain for its own execution that protects itself and its resources from external interference, tampering and unauthorized disclosure.			
SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-6-393] [SRS-6-394] [SRS-6-4]	The WG SHALL provide mechanisms that mitigate attempts to exhaust resources provided by the WG and thus protect availability of high side resources. The WG SHALL provide mechanisms that control a user's logical access to the WG and to explicitly deny access to specific users when appropriate. The WG-SF SHALL maintain a domain for its own execution that protects itself and its resources from external interference, tampering and unauthorized disclosure. WG_IF_MET_HIGH MUST support an operation 'ForwardHigh' that forwards (transfer-out) data that has been processed by the WG to the high domain.			
SOW Annex-A SOW Annex-A	[SRS-6-393] [SRS-6-394] [SRS-6-4] [SRS-6-40]	The WG SHALL provide mechanisms that mitigate attempts to exhaust resources provided by the WG and thus protect availability of high side resources. The WG SHALL provide mechanisms that control a user's logical access to the WG and to explicitly deny access to specific users when appropriate. The WG-SF SHALL maintain a domain for its own execution that protects itself and its resources from external interference, tampering and unauthorized disclosure. WG_IF_NET_HIGH MUST support an operation 'ForwardHigh' that forwards (transfer-out) data that has been processed by the WG to the high domain. The operation 'ReceiveWebContentLH' MUST support Transport Layer Security (TLS, [IETF RFC 8446, 2018]). The operation 'ReceiveWebContentLH' MUST support the invocation of the operations' Verify' (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the			
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-6-393] [SRS-6-394] [SRS-6-4] [SRS-6-40] [SRS-6-41]	The WG SHALL provide mechanisms that mitigate attempts to exhaust resources provided by the WG and thus protect availability of high side resources. The WG SHALL provide mechanisms that control a user's logical access to the WG and to explicitly deny access to specific users when appropriate. The WG-SF SHALL maintain a domain for its own execution that protects itself and its resources from external interference, tampering and unauthorized disclosure. WG_IF_NET_HIGH MUST support an operation 'ForwardHigh' that forwards (transfer-out) data that has been processed by the WG to the high domain. The operation 'ReceiveWebContentLH' MUST support Transport Layer Security (TLS, [IETF RFC 8446, 2018]).			
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	(SRS-6-393) (SRS-6-394) (SRS-6-4) (SRS-6-4) (SRS-6-41) (SRS-6-41)	The WG SHALL provide mechanisms that mitigate attempts to exhaust resources provided by the WG and thus protect availability of high side resources. The WG SHALL provide mechanisms that control a user's logical access to the WG and to explicitly deny access to specific users when appropriate. The WG-SF SHALL maintain a domain for its own execution that protects itself and its resources from external interference, tampering and unauthorized disclosure. WG, IF_NET_NIGH MUST support an operation 'ForwardHigh' that forwards (transfer-out) data that has been processed by the WG to the high domain. The operation 'ReceiveWebContentLH' MUST support Transport Layer Security (TLS, [IETF RFC 8446, 2018]). The operation 'ReceiveWebContentLH' MUST support the invocation of the operation' (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface 'Public Key Cryptographic Services' ([SRS-6-239]) provided by WG_PKCS (6.6.2.1).			
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	(SRS-6-393) (SRS-6-394) (SRS-6-4) (SRS-6-4) (SRS-6-41) (SRS-6-41)	The WG SHALL provide mechanisms that mitigate attempts to exhaust resources provided by the WG and thus protect availability of high side resources. The WG SHALL provide mechanisms that control a user's logical access to the WG and to explicitly deny access to specific users when appropriate. The WG-SF SHALL maintain a domain for its own execution that protects itself and its resources from external interference, tampering and unauthorized disclosure. WG_IF_NET_HIGH MUST support an operation 'ForwardHigh' that forwards (transfer-out) data that has been processed by the WG to the high domain. The operation 'ReceiveWebContentLH' MUST support Transport Layer Security (TLS_[IETF RFC 8446, 2018)). The operation 'ReceiveWebContentLH' MUST support the invocation of the operations' Verify' (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface 'Public Key Cryptographic Services' ([SRS-6-239]) provided by WG_PKCS (6.6.2.1). After receiving an HTTP message, the operation 'ReceiveWebContentLH' SHALL pass the HTTP message to the interface 'IFCPE Services Low to High' (6.5.1.2.2) for further processing. The operation ReceiveWebContentLH' SHALL persist the HTTP CP/IP connection from an HTTP client in the high domain until: • an HTTP Response is received at the interface 'GOA Platform Services HL' ([SRS-6-22]) and processed by the operation			
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-6-393] [SRS-6-394] [SRS-6-4] [SRS-6-40] [SRS-6-41] [SRS-6-42] [SRS-6-42]	The WG SHALL provide mechanisms that mitigate attempts to exhaust resources provided by the WG and thus protect availability of high side resources. The WG SHALL provide mechanisms that control a user's logical access to the WG and to explicitly deny access to specific users when appropriate. The WG-SF SHALL maintain a domain for its own execution that protects itself and its resources from external interference, tampering and unauthorized disclosure. WG_FF_NET_HIGH MUST support an operation 'ForwardHigh' that forwards (transfer-out) data that has been processed by the WG to the high domain. The operation 'ReceiveWebContentLH' MUST support Transport Layer Security (TLS, [IETF RFC 8446, 2018)). The operation 'ReceiveWebContentLH' MUST support the invocation of the operations' Verify' (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface 'Public Key Cryptographic Services' (ISFS-6-329) provided by WG-RCS (6.6.2.1). After receiving an HTTP message, the operation 'ReceiveWebContentLH' SHALL pass the HTTP message to the interface 'IFCPE Services Low to High (6.5.1.2.2) for further processing. The operation 'ReceiveWebContentLH' SHALL persist the HTTP CP/IP connection from an HTTP client in the high domain until: * an HTTP Response is received at the interface 'SOA Platform Services HL' ([SRS-6-22]) and processed by the operation 'ForwardWebContentLH' (6.4.3.1.3); or * the HTTP TCP/IP connection is timed out by the HTTP client.			
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-6-393] [SRS-6-394] [SRS-6-394] [SRS-6-40] [SRS-6-40] [SRS-6-41] [SRS-6-42] [SRS-6-43] [SRS-6-44]	The WG SHALL provide mechanisms that mitigate attempts to exhaust resources provided by the WG and thus protect availability of high side resources. The WG SHALL provide mechanisms that control a user's logical access to the WG and to explicitly deny access to specific users when appropriate. The WG-SF SHALL maintain a domain for its own execution that protects itself and its resources from external interference, tampering and unauthorized disclosure. WG_IF_NET_HIGH MUST support an operation 'ForwardHigh' that forwards (transfer-out) data that has been processed by the WG to the high domain. The operation 'ReceiveWebContentLH' MUST support Transport Layer Security (TLS, [IETF RFC 8446, 2018]). The operation 'ReceiveWebContentLH' MUST support the invocation of the operations' Verify' (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface 'Public Key Cryptographic Services' (ISR5-6-239) provided by WG-RCS (6.6.2.1). After receiving an HTTP message, the operation 'ReceiveWebContentLH' SHALL pass the HTTP message to the interface 'IFCPE Services Low to High' (6.5.1.2.2) for further processing. The operation 'ReceiveWebContentLH' SHALL persist the HTTP TCP/IP connection from an HTTP client in the high domain until: • an HTTP Response is received at the interface 'SOA Platform Services HL' (ISR5-6-22]) and processed by the operation 'ForwardWebContentHL' 6.3.1.3); or • the HTTP TCP/IP connection is timed out by the HTTP client. In support of the use of HTTP persistent connections, the WG SHALL be able to correlate HTTP Request and Response messages that belong to the same HTTP connection initized in the low domain.			
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-6-393] [SRS-6-394] [SRS-6-4] [SRS-6-41] [SRS-6-42] [SRS-6-43] [SRS-6-44] [SRS-6-44] [SRS-6-44]	The WG SHALL provide mechanisms that mitigate attempts to exhaust resources provided by the WG and thus protect availability of high side resources. The WG SHALL provide mechanisms that control a user's logical access to the WG and to explicitly deny access to specific users when appropriate. The WG SF SHALL maintain a domain for its own execution that protects itself and its resources from external interference, tampering and unauthorized disclosure. WG_IF_NET_HIGH MUST support an operation 'ForwardHigh' that forwards (transfer-out) data that has been processed by the WG to the high domain. The operation 'ReceiveWebContentLH' MUST support Transport Layer Security (TLS, [IETF RFC 8446, 2018)). The operation 'ReceiveWebContentLH' MUST support the invocation of the operations' Verify' (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface 'Public Key Cryptographic Services' (ISRS-6-239)) provided by WG_PKCS (6.6.2.1). After receiving an HTTP message, the operation 'ReceiveWebContentLH' SHALL pass the HTTP The spage to the interface 'IFCPE Services Low to High' (6.5.1.2.2) for further processing. The operation 'ReceiveWebContentLH' SHALL persist the HTTP TCP/IP connection from an HTTP client in the high domain until: • an HTTP Response is received at the interface 'SOA Platform Services HL' (ISRS-6-22) and processed by the operation 'ForwardWebContentLH' (6.4.3.1.3); or • the HTTP TCP/IP connection initiated in the low domain. The operation Services HTTP persistent connections, the WG SHALL be able to correlate HTTP Request and Response messages that belong to the same HTTP connection linitiated in the low domain. The operation Services HTTP persistent connections an operation 'ForwardWebContentLH' that provides HTTP connectivity on the high to the same HTTP connection the HIGT of the provises HTTP connectivity on the hig			
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SOW Annex, SIS5-517 MS, DEX MUST offer an interface Core-Service Management" and to got Communication Access Services Management". Image: SIS5-538 SOW Annex, SIS5-517 The interface Core Service Management MST support the following management protocol: - single Network Management Protocol (NHT Pix1 Pix C 2013); - Higher Text Transport Protocol (INTT Pix1 Pix C 2013); - Higher Text Transport Protocol (INTT Pix1 Pix C 2013); - Higher Text Transport Protocol (INTT Pix1 Pix C 2013); - Higher Text Transport Protocol (INTT Pix1 Pix C 2013); - Higher Text Transport Protocol (INTT Pix1 Pix C 2013); - Higher Text Transport Protocol (INTT Pix1 Pix C 2013); - Higher Text Transport Protocol (INTT Pix1 Pix C 2013); - Higher Text Transport Protocol (INTT Pix1 Pix C 2014); - Higher Text Transport Protocol (INTT Pix1 Pix C 2014); - Higher Text Transport Protocol (INTT Pix1 Pix C 2014); - Higher Text Transport Protocol (INTT Pix1 Pix C 2014); - Higher Text Transport Protocol (INTT Pix1 Pix C 2014); - Higher Text Transport Protocol (INTT Pix1 Pix C 2014); - Higher Text Transport Protocol (INTT Pix1 Pix C 2014); - Higher Text Text Text Text Text Text Text Text					
SDW Anney, A. SSR-5481 The interface Yours Survey Management Protocol (SMM) Yerubio 3 (ETF #FC 1410 – 3418, 2002); - Single Network Management Interface (PM) (PM V2.0, 2331); - However, The Protocol (SMM) Yerubio 3 (ETF #FC 1231, 2014) [ETF #FC 1231, 2014], Hyper-Text Transport Protocol HTTP // VW bit interface (CV #FW) (PM V2.0, 2331); - Reneed Execting (DDP), - Reneed Exe			The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP		
set and point Layer protocol [IET RFC 423:, 2006]; • Single Heaving Management Protocol [SMP Viewion 3 [IET RFC 431: 0 - 3418, 2002]; • Single Heaving Management Protocol [SMP Viewion 3 [IET RFC 723, 2014] (IET RFC 723, 2014] Hyper-Text Transport Protocol SOW Annex. [ISS 5-59] The interface Code Services Management' MAX support the following management protocol: • Heaving View Interface, [IET RFC 7540, 2014] SOW Annex. [ISS 5-69] The interface Code Services Management' MAX support the following management protocol: • Heaving View Interface, [IET RFC 7540, 2014] SOW Annex. [ISS 5-69] The interface Code Services Management' MAX support the following management protocol: • Heaving View Interface, [IET RFC 7540, 2014] SOW Annex. [ISS 5-64] The interface Code Services Management' MAX support tak	SOW Annex-A SOW Annex-A	[SRS-6-55] [SRS-6-56]	The interface "Communications Access Services Management" MUST support an operation "ForwardNetworkManagement" that forwards IP traffic to the management domain. The operation "ForwardNetworkManagement" MUST support error handling as specified in [IETF.RFC 7414, 2015].		
single Retexor. Management Protocol (SMMP) Version 3 [IETF BFC 3410 – 3418, 2002]; • single Retexor. Management Interface [IPM] [IPM V2.0, 2013]; • Network Time Protocol, IPTTP V1.1. We interface [IPT BFC 7280, 2014] [IETF BFC 7281, 2014], Hyper-Text Transport Protocol, IPTTP V1.1. We interface [IETF BFC 7280, 2014] [IETF BFC 7281, 2014], Hyper-Text Transport Protocol, IPTTP V1.1. We interface [IETF BFC 7280, 2014] [IETF BFC 7281, 2014], Hyper-Text Transport Protocol, IPTTP V1.1. We interface [IETF BFC 7280, 2014] [IETF BFC 7281, 2014], Hyper-Text Transport Protocol SOW Annee, A. [856-69] The Interface Core Services Management MMS support the following management protocol: • emotion due interface (ICU) Secures Self (ISOH) SOW Annee, A. [856-64] The interface Core Services Management MMS support Transport Protocol Hyper Security TLS, IETF BFC 4484, 2018]. • emotion due interface (ICU) Secures Self (ISOH) SOW Annee, A. [856-64] The interface Core Services Management MMST support Transport Provade Management Content MMST support Transport Provade Secure Shangement Content MMST support Transport Provade Management Content MMST support Transport Provade Management Receives (ISOK 642.31). • emotion Secure Shangement MMST support Transport Provade Management Receives (ISOK 642.31). • emotion Secure Shangement MMST support Transport Provade Management Receives (ISOK 642.31). • emotion Secure Shangement MMST support Transport Provade Management Receives (ISOK 642.31). • emotion Secure Shangement MMST support Transport Provade Management Receives (ISOK 642.31). • emotion Secure Shangement MMST support Transport Provade Management Receives (ISOK 642.31). • e	SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-6-55] [SRS-6-56] [SRS-6-57]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'.		
set • Network Time Protocic • Network Time Protocic • Network The Protocic • Network The Protocic • Network The Protocic • Network Text Transport Protocol (HTTP) 11. Web interface [IFE FC 723, 2014] (IFE FFC 723, 2014], Hyper-Text Transport Protocol • Network Transport Protocol (HTTP) 11. Web interface [IFE FC 723, 2014] (IFE FFC 723, 2014], Hyper-Text Transport Protocol SOW Annex A 185-6-91 The interface Cut Service Management' MV support the following management protocol: • Network Transport Protocol (ITE) SOW Annex A 185-6-61 The interface Cut Service Management' MUST support ta operation ReceiveLow that neevies (transfer-in) data from the low domain for processing by the WG. • Common SOW Annex A 185-6-61 The operation ReceiveLow tangement support the Secure Management' MUST support ta operation ReceiveLow tangement's transport Larger Secure Management's Development Secure Management's Secure Management's Development's MUST support ta operation ReceiveLow Management's MUST support ta protection ReceiveLow Management's MUST support ta protectis MUST ReceiveLow MUST Support ta protection Receiv	SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-6-55] [SRS-6-56] [SRS-6-57]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_ DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols:		
set • intelligent Platform Management Interface (IPM I) (PM V L20, 2013); • 'Hyper-Text Transport Protocol 0.1171 / J2 Web Interface, (ITF RC 754), 2014) • Remote Decking (IRD) • Remote Decking (IRD) 0.200 Annex A IPS-693 The Interface Core Services Management / MAY support the following management protocol: • Remote Decking (IRD) • Remote Decking (IRD) 0.200 Annex A IPS-647 WG g_ FLET_AC Core Services Management / MAY support the following management protocol: • Remote Processing Decking (IRD) • Remote Processing Decking (IRD) 0.200 Annex A IPS-647 The Interface Core Services Management / MAY support an operation ReceiveManagementContent / Har receives external management • Remote Processing 0.200 Annex A IPS-647 The operation ReceiveManagementContent / MAY support Tansport Processing • ReceiveManagementContent / MAY support Tansport Processing 0.200 Annex A IPS-6481 The operation ReceiveManagementContent / MAY support Tansport Processing • ReceiveManagementContent / MAY support Tansport Processing 0.200 Annex A IPS-6481 The operation ReceiveManagementContent / MAY support Tansport Processing • ReceiveManagementContent / MAY support Tansport Processing 0.200 Annex A IPS-6481 The operation ReceiveManagementContent / MAY support Tansport Procescing (IPT FR C 4452, 2018) <td>SOW Annex-A SOW Annex-A SOW Annex-A</td> <td>[SRS-6-55] [SRS-6-56] [SRS-6-57]</td> <td>The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IET RFC 421, 2006];</td> <td></td> <td></td>	SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-6-55] [SRS-6-56] [SRS-6-57]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IET RFC 421, 2006];		
set hyper-Text Transport Protocol (HTTP) 1.1 Web interface [IFE FC 723, 2014] INDER-Text Transport Protocol interface [IFE FC 724, 2014] SGW Annex, 8185-639 The interface Cost Services Management' MAY support the following management protocol: interface Cost Services Management' MAY support the following management protocol: interface Cost Services Management' MAY support the following management protocol: interface Cost Services Management' MAY support the following management protocol: interface Cost Services Management' MAY support to operation Received. interface Cost Services Management' MAY support to operation Received. interface Cost Services Management' MAY support to operation Received. interface Cost Services Management' MAY support to operation Received. interface Cost Services Management' MAY support to operation Services Management' Tast Services Management' Tast Support to accest Support Services (Stransport Line Services Management' MAY support the invocation of the operations Verify IGS. 2.2.3) and Texcervit' GS. 2.2.3) at the interface Cost Services Management' MAY support the invocation of the operation Verify IGS. 2.2.3) at the interface Cost Services Management' MAY support to peration Received. interface Cost Services Management' MAY support to service Management' MAY support to peration Received. interface Cost Services Management' MAY support to peration Received. interface Cost Services Management' MAY support an operation Received. interface Cost Services Management' MAY support an operation Received. interface Cost Services Management' MAY support an operation Received. interface Cost Services Management' MAY support an operation Received. int	SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-6-55] [SRS-6-56] [SRS-6-57]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IETF RFC 4251, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog;		
IntTP) 2 Web interface, [IET #FC 750, 2014] Image: Comparison of the interface Comparison of the C	SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-6-55] [SRS-6-56] [SRS-6-57]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IET RFC 4215, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog; • Network Time Protocol;		
e. Remote Desktop (BOP). Image: Provide State Desktop (BOP). SOW AnnexA. BS5-6-93 The interface Core Services Management MAY support the following management protocol:	SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-6-55] [SRS-6-56] [SRS-6-57]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IETF RFC 4251, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog; • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013];		
• Remote Procedure Call (RPC). • Keyboard, video and mouse (VMA) over Ethernet; • Command Line Interface (CLI) via Scurer Shell (SSH) • Command Line Interface (CLI) via Scurer Shell (SSH) SOW Annees, All (SSE-64) WG_FR_NET_LOW MUST support an operation Receive/WanagementContent' that receives external management Image: Command Line Interface (CLI) via Scurer Shell (SSH) SOW Annees, All (SSE-64) The operation Receive/ManagementContent' MUST support an operation Receive/ManagementContent' MUST Support the Secure Shell Protocol (SSH) (ETF RFC 8246, 2018)). • Command Line Interface To Shell (SSH) SOW Annees, All (SSE-64) The operation Receive/ManagementContent' MUST support the socure Shell Protocol (SSH) (ETF RFC 8246, 2018)). • Command Line Interface To Shell (SSH) SOW Annees, All (SSE-64) The operation Receive/ManagementContent' MUST support an operation Study (SGE 62.2.1) at the interface offered by WG, MGMI (SGE 63.2.3)) for further processing. • Command Line Interface To Shell (SGE 63.2.3.2.2.3) at the interface offered by WG, MGMI (SGE 63.2.3.2.3) at the interface offered by WG, MGMI (SGE 63.2.3.2.3) at the operation Receive/Management Content' Must accepts outgoing management field (SGE 64.2.3.2.3.3.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-6-55] [SRS-6-56] [SRS-6-57]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IETF RFC 4251, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog: • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol		
explorad, video and mouse (KVM) over Ethernet; explorad, video and mouse (KVM) over Ethernet; explorad, video and mouse (KVM) over Ethernet; explorade video and mouse (KVM) over Ethernet; explorade video and mouse (KVM) with the support of a operation Received/anagementContert 'that receives external management traffer for further processing. SOW Annex A [95-64] The operation Received/management/ MUST support Tansport Laver Security (TLS, IETF EC4454, 2018). SOW Annex A [95-64] The operation Received/management/Content 'MUST support Tansport Laver Security (TLS, IETF EC4454, 2018). SOW Annex A [95-64] The operation Received/management/Content 'MUST support The invocation of the operations (Security (16, 6.2.2.3) and 'Decrypt' (6, 6.2.2.3) at the interface 'Dublic Rec (Cryptographic Service) (Sins 5-230] norther operations (Security (16, 6.2.2.3) at the interface 'Dublic Rec (MAT) (Sins 5-230) invoked by WG. PKGK (56, 6.2.1). SOW Annex A [95-64] The operation Received/management (Dutter) (Sins 5-230) norther processing. SoW Annex A [95-64] The operation Received/management (Dutter) (Sins 5-230) norther processing. SoW Annex A [95-64] The operation Received/management (Dutter) an operation 'Toward/Management (Dutter) in the function of a management message to the appropriate interface Core Service Management (Dutter) and operation 'Toward/Management (Dutter) in the processing. SoW Annex A [95-64] The operation Received/management (Dutter) support the secure Sell Protocol (Sins) (IET RE (S-232), Dutter) in the interface Core Service Management (Dutter) support the Secure Sell Protocol (Sins) (IET RE (S-242), Dutter) in the operation 'Toward/Management (Dutter) support the Secure Sell Protocol (Sins) (IET RE (S-242), Dutter) in the operation 'Toward/Management (Dutter)' support the secure Sell Protocol (Sins) (IET RE (S-242), Dutter) in the operation 'Toward/Management (Dutter)' support the secure Sell Protocol (Sins) (IET	SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-6-55] [SRS-6-56] [SRS-6-57]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST Offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IETF RFC 4215, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog; • Network Time Protocol; • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol [HTTP] v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol [HTTP] v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol [HTTP] v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol [HTTP] v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol [HTTP] v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol [HTTP] v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol [HTTP] v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol [HTTP] v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol [HTTP] v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol [HTTP] v1.1 Web interface [IETF RFC 7230, 201		
• Command Lime Interface (CL) via Secure Shell (SH) • Command Lime Interface (CL) via Secure Shell (SH) SOW AnnexA [SK-6-6] WG_JF_NET_LOW MUST support an operation ReceiveLow' that receives (transfer-in) data from the low domain for processing by the WG. Image: Command Lime Secure Shell (SH) SOW AnnexA [SK-6-6] The operation ReceiveManagementContent MUST support an operation ReceiveManagementContent' (LS) (ETF BFC 8466, 2018)]. Image: Command Lime Secure Shell (SH) SOW AnnexA [SK-6-61] The operation ReceiveManagementContent MUST support the Secure Shell Protocol (SH) (LTF BFC 8466, 2018)]. Image: Command Lime Secure Shell (SK) SOW AnnexA [SK-6-61] The operation ReceiveManagementContent MUST support the invocation of the operation Secure Shell (SK) Image: Command Lime Secure Shell (SK) SOW AnnexA [SK-6-63] The operation ReceiveManagementContent SHL1 pass management content in the form of a management message to the appropriate interface of Secure Shall (SK) Image: Command Lime Secure Shall (SK) SOW AnnexA [SK-6-63] The operation ReceiveManagement MuST support an operation ForwardManagement content in the form of a management message to further processing. Image: Command Lime Secure Shall (SK) SOW AnnexA [SK-6-63] The operation forwardManagement message shall protocol (SK) (ITF RFC 8466, 2018)]. Image: Command Secure Shall (SK) SOW AnnexA <td>SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A</td> <td>[SRS-6-55] [SRS-6-56] [SRS-6-57] [SRS-6-58]</td> <td>The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IETF RFC 4215, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog; • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v2 Web interface, [IETF RFC 7540, 2014] • Remote Desktop (RDP).</td> <td></td> <td></td>	SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-6-55] [SRS-6-56] [SRS-6-57] [SRS-6-58]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IETF RFC 4215, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog; • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v2 Web interface, [IETF RFC 7540, 2014] • Remote Desktop (RDP).		
SQW Annex A [SR-6-6] WG_F_NET_LOW MUST support an operation "Received.out" that receives (transfer-in) data from the low domain for processing by the WG. Image: https://doi.org/10.1001/j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.	SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-6-55] [SRS-6-56] [SRS-6-57] [SRS-6-58]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST Offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IET RFC 7412, 2006]; • Simple Network Management Interface (ISMMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog; • Network Time Protocol; • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol [HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol [HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol [HTTP) v2. Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol [HTTP] v2. Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol [HTTP] v2. Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol [HTTP] v2. Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol [HTTP] v2. Web interface [IETF RFC 7540, 2014] • Remote Desktop (RDP). The interface 'Core Services Management' MAY support the following management protocol: • Remote Procedure Call (RPC).		
SWA Annex A [SS5-660] The interface Core Services Management MUST support an operation ReceiveManagementContent' MuST support Transport Layer Security (TLS, [ETF RFC 846, 2018)]. Imagement SWA Annex A [SS5-661] The operation ReceiveManagementContent' MUST support Transport Layer Security (TLS, [ETF RFC 846, 2018)]. Imagement SWA Annex A [SS5-662] The operation ReceiveManagementContent' MUST support the secure Shell Protocol (SM) [ETF RFC 845, 2006]. Imagement SWA Annex A [SS5-663] The operation ReceiveManagementContent' MUST support the operations. Verify (6.6.2.2.5) at the interface of feed by WG. MGMT [SS5-6:230] provided by WG. PKCS (6.6.2.1). Imagement tessage to the appropriate interface of feed by WG. MGMT [SS5-6:232] provided by WG. PKCS (6.6.2.1). SWA Annex A [SS5-6:60] The interface confered by WG. MGMT [SS5-6:232] provided by WG. PKCS (6.6.2.1). Imagement Content' SHALL forward the management Content' that accepts outgoing management ressages for further processing. SWA Annex A [SS5-6:61] The operation TrowardManagementContent' MUST support Transport Layer Security (TS, [ETF RFC 846, 2018)]. Imagement Content' SHALL forward the management content' that accepts outgoing management protocol, to the management protocol, sont the interface of prevation TrowardManagementContent' MUST support Transport Layer Security (TS, (ETF RFC 846, 2018)]. SWA Annex A [SS5-671] The operation TrowardManagementContent' MUST support Transport Layer Securi	SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-6-55] [SRS-6-56] [SRS-6-57] [SRS-6-58]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: Transport Layer protocol [IETF RFC 4215, 2006]; Simple Network Management Interface (IPMI) [IPMI V2.0, 2013]; Network Time Protocol; Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v2.0, when therface (IPMI) [IPMI V2.0, 2013]; Remote Desktop (RDP). The interface 'Core Services Management' MAY support the following management protocol: Remote Procedure Call (RPC).		
Cov Annex-A SNA Forker-A <	SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-6-55] [SRS-6-56] [SRS-6-57] [SRS-6-58] [SRS-6-59]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IETF RFC 4215, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog: • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v2 Web interface', [IETF RFC 7540, 2014] • Remote Desktop (RRD). The interface 'Core Services Management' MAY support the following management protocol: • Rewote Procedure Call (BPC). • Keyboard, video and mouse (KVM) over Ethernet; • Command Line interface (LU) via Secure Shell (SSH)		
SQW Annex-A [985-64] The operation "ReceiveManagementContent" MUST support Transport Layer Security (TLS, ILETE RFC 8446, 2018). Image: Comparison (Comparison) (Comp	SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-6-55] [SRS-6-56] [SRS-6-57] [SRS-6-58] [SRS-6-59]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IETF RFC 4215, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog: • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v2 Web interface', [IETF RFC 7540, 2014] • Remote Desktop (RRD). The interface 'Core Services Management' MAY support the following management protocol: • Rewote Procedure Call (BPC). • Keyboard, video and mouse (KVM) over Ethernet; • Command Line interface (LU) via Secure Shell (SSH)		
SOW Annex-A [985-64] The operation "ReceiveManagementContent" MUST support the invocation of the operation is converbed management content in MUST support the invocation of the operation is converbed management content in MUST support the invocation of the operation is converbed management content in MUST support the invocation of the operation is converbed management content in MUST support the invocation of the operation is converbed management content in the form of a management message to the appropriate the interface ("Public Key Cryptographic Services' ([SR5 6-239]) provided by WG PKCS (6.6.2.1). SOW Annex-A [985-64] The interface ("Provide Management Content" SNLL pass management content in the form of a management message to the appropriate management formation "forwardManagementContent" that accept outgoing management messages for further processing. SOW Annex-A [985-64] The interface ("Provide Management Content" MUST support Transport Layer Security (TLS, [UTF RFC 4452, 2018)]. SOW Annex-A [985-66] The operation "forwardManagementContent" MUST support Transport Layer Security (TLS, [UTF RFC 4452, 2018)]. SOW Annex-A [985-67] The operation TorwardManagementContent" MUST support Transport tayer Security (TLS, [UTF RFC 4452, 2018)]. SOW Annex-A [985-67] The operation TorwardManagementContent" MUST support the invocation of the operation "forward Management Content" MUST support the invocation of the operation "forward Management Content" MUST support the invocation of the operation "forward Management Content" MUST support the invocation of the operation "forward Management Content" MUST support the invocation of the operation "forward Management Content" MUST support the invocation of the operation "forward Managemen	SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-6-55] [SRS-6-56] [SRS-6-57] [SRS-6-58] [SRS-6-59] [SRS-6-6]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IETF RFC 2412, 2006]; • Simple Network Management Interface (IPMI) [IPMI V2.0, 2013]; • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v2 Web interface, [IETF RFC 7540, 2014] • Remote Desktop (RDP). The interface 'Core Services Management' MAY support the following management protocol: • Remote Procedure Call (RPC). • Command Line interface (LU) va Secure Shell (SSH) WGIFNET_LOW MUST support an operation 'ReceiveManagementContent' that receives external management The interface 'Core Services Management' MAY support an operation 'ReceiveManagementContent' that receives external management The interface 'Core Services Management' MAY support an operation 'ReceiveManagementContent' that receives external management The interface 'Core Services Management' MUST support an operation 'ReceiveManagementContent' that receives external management The interface 'Core Services Management' MUST support an operation 'ReceiveManagementContent' that receives external management The interface 'Core Services Management' MUST support an operation 'ReceiveManagementContent' that receives external management The interface 'Core Services Management' MUST support an operation 'ReceiveManagementContent' that receives external management The interface 'Core Services Management' MUST support an operation 'ReceiveManag		
SQW Annex-A [885-6-63] The operation 'ReceiveManagementContent' MUST support the invocation of the operations' Verify' (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface 'Public Key Cryptographic Services' ([885-6-23])) provided by WG. PKCS (6.6.2.1). SOW Annex-A [885-6-64] The operation 'ReceiveManagementContent' SHALL pass management content in the form of a management message to the appropriate interface offered by WG. MKMT ([\$85-6-25]) for further processing. SOW Annex-A [885-6-63] The interface' Core Services Management' MUST support an operation 'ForwardManagementContent' that accepts outgoing management message for further processing. SOW Annex-A [885-6-63] The interface' Core Services Management' MUST support an operation 'ForwardManagementContent' MUST support an operation 'ForwardManagementContent' MUST support Transport Layer Security (TLS, [ETF RC 4846, 2018)]. SOW Annex-A [885-6-63] The operation 'ForwardManagementContent' MUST support Transport Layer Security (TLS, [ETF RC 4846, 2018)]. SOW Annex-A [885-6-69] The operation 'ForwardManagementContent' MUST support transport Layer Security (TLS, [ETF RC 4846, 2018)]. SOW Annex-A [885-6-69] The operation 'ForwardManagementContent' MUST support transport Layer Security (TLS, [ETF RC 4846, 2018)]. SOW Annex-A [885-6-7] The operation 'ForwardManagementContent' MUST support transport Layer Security (TLS, [ETF RC 4846, 2018)]. SOW Annex-A [885-6-7] The operation 'ForwardManagementContent' M	SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-6-55] [SRS-6-56] [SRS-6-57] [SRS-6-58] [SRS-6-59] [SRS-6-6] [SRS-6-6]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST Offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IETF RFC 4215]. 2006]; • Simple Network Management Interface (ISMMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Sysiog; • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v2 Web interface, [IETF RFC 7340, 0.2013] • Remote Desktop (RDP). The interface 'Core Services Management' MAY support the following management protocol: • Remote Procedure Call (RPC). • Keyboard, video and mouse (KVM) over Ethernet; • Command Line interface (LDI) via Secure Shell (SSH) WG_IF_NET_LOW MUST support an operation 'Receives (transfer-in) data from the low domain for processing by the WG. The interface 'Core Services Management' MUST support an operation 'ReceiveManagementContent' that receives external management traffic for further processing.		
Implementation Implementation Implementation Implementation SOW Annex-A [SR5-6-64] The operation 'ReceiveManagementContent' SHALL pass management content in the form of a management message to the appropriate interface offered by WG, MGMT ([SR5-6-232]) for further processing. Implementation Implementation SOW Annex-A [SR5-6-66] The interface 'Gree Services Management' MUST support an operation 'ForwardManagementContent' that accepts outgoing management messages for further processing. Implementation Implementation SOW Annex-A [SR5-6-66] After receiving a management message from one of the interfaces offered by WG, MGMT ([SR5-6-231]), the operation 'forwardManagementContent' MUST support message, as payload of the appropriate management protocol, to the management domain. Implementation SOW Annex-A [SR5-6-67] The operation 'forwardManagementContent' MUST support the invocation of the operation 'forwardManagementContent' MUST support the invocation of the operation 'Encrypt' (6.6.2.2.4) at the interface 'Public Key Cryptographic Service's ([SR5-6.23]) provided by WG PRCS (6.6.2.1). Implementation forwardManagementContent' MUST support the invocation functor's interface' Transport Layer Security (TLS, [ETF RC 2846, 2018). Implementation forwardManagementContent' MUST support the invocation functor's interface' Transport Layer Security (TLS, 6.2.2.4) at the interface 'Public Key Cryptographic Services' ([SR5-6.23]) provided by WG PRC (6.2.2.1). Implementation forwardManagementContent' MUST support an operation 'ForwardManagementConten	SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-57] [SR5-6-57] [SR5-6-58] [SR5-6-59] [SR5-6-6] [SR5-6-60] [SR5-6-61]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IETF RFC 4251, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog: • Network Time Protocol (IETF RFC 4251, 2006]; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Intelligent Platform Management' MAY support the following management protocol: • Remote Desktog (RDP). The interface 'Core Services Management' MAY support the following management protocol: • Remote Procedure Call (RPC). • Keyboadr, video and mouse (IVMI) ore Thernet; • Command Line interface (LDI via Secure Shell (SSH) WG_IF_NET_LOW MUST support an operation 'ReceiveLow' that receives (transfer-in) data from the low domain for processing by the WG. The interface 'Core Services Management' MUST support an operation 'ReceiveManagementContent' that receives external management traffic for further processing. The operation 'ReceiveManagement' MUST support an operation 'ReceiveManagementContent' that receives external management traffic for further processing. The operation 'ReceiveManagement' MUST support Transport Layer Security (TLS, [IETF RFC 8446, 2018]).		
Interface offered by WG, MÖMT ([SIS-6-22]) for further processing. Image: Content of the interface of the interface of the interface of processing. SOW Annex: A [SIS-6-65] The interface 'Core Services Management' MUST support an operation 'ForwardManagement' inta accepts outgoing management Image: Content of the interfaces of fered by WG_MGMT ([SIS-6-22]), the operation 'ForwardManagementContent' SHALL forward the management message, as payload of the appropriate management protocol, to the management domain. SOW Annex: A [SIS-6-67] The operation 'ForwardManagementContent' MUST support the secure Shell Protocol [SISH] [IET RFC 4251, 2006]. Image: Content' SHALL forwardManagementContent' MUST support the secure Shell Protocol [SISH] [IET RFC 4251, 2006]. SOW Annex: A [SIS-6-67] The operation 'ForwardManagementContent' MUST support the invocation of the operation 'Envryi' (6.6.2.2.4) at the interface 'Public Key 'Corptographic Service' ([SIS-6-23]) provided by WC_PKCS (6.6.2.1). Image: Content of MUST support an operation 'ForwardManagement (PUP CIP) capability WG_IFCPE that enables the WG to the low domain. SOW Annex: A [SIS-6-70] The WG MUST provide an information flow control policy enforcement (IFCPE Capability WG_IFCPE that enables the WG to: - Mediate the flow of information flow control policy enforcement (IFCPE Capability WG_IFCPE that enables the WG to: - Mediate the flow of information flow control policy WG_IFP. SOW Annex: A [SIS-6-72] The WG MUST provide an information flow control policy WG_IFP.L_L W and WG_CIP_H_L V and WG_CIP_H_L V and WG_CIP_H_L V and WG_CIP_H_L V and WG_IFP.	SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-6-55] [SRS-6-56] [SRS-6-57] [SRS-6-58] [SRS-6-59] [SRS-6-60] [SRS-6-60] [SRS-6-61] [SRS-6-61]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG, DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IETF RFC 2412, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog; • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v2 Web interface, [IETF RFC 7540, 2014] • Remote Desktop (RDP). The interface 'Core Services Management' MAY support the following management protocol: • Remote Procedure Call (RPC). • Keyboard, video and mouse (IVM) over Ethernet; • Command Line interface (LIV) vai Secure Shell (SSH) WG_IF_NET_LOW MUST support an operation 'ReceiveLow' that receives (transfer-in) data from the low domain for processing by the WG. The interface 'Core Services Management' MUST support an operation 'ReceiveManagementContent' that receives external management traffic for further processing. The operation 'ReceiveManagement' MUST support Transport Layer Security (TLS, [IETF RFC 8446, 2018]). The operation 'ReceiveManagementContent' MUST support Tansport Layer Security (TLS, [IETF RFC 4456, 2018]). The operation 'ReceiveManagementContent' MUST support Tansport Layer Security (TLS, [IETF RFC 4456, 2018]). The operation 'ReceiveManagementContent' MUST support Tansport Layer Security (TLS, [IETF RFC 4456, 2018]). The operation 'ReceiveManagementContent' MUST support Tansport Layer Security (TLS, [IETF RFC 4456, 2018]). The operation 'ReceiveManagementConte		
SOW Annex-A [SR5-6-65] The interface 'Core Services Management' MUST support an operation 'ForwardManagementContent' that accepts outgoing management SOW Annex-A [SR5-6-66] The roceving amanagement message from one of the interfaces offered by WG_MGMT ([SR5-6-252]), the operation 'ForwardManagementContent' SHALL forward the management message, as payload of the appropriate management protocol, to the management domain. SOW Annex-A [SR5-6-67] The operation 'ForwardManagementContent' MUST support Transport Layer Security (TLS, [IETF RFC 8446, 2018]). SOW Annex-A [SR5-6-68] The operation 'ForwardManagementContent' MUST support the Secure Shell Protocol (SSH) [IET RFC 4251, 2006]. SOW Annex-A [SR5-6-67] The operation 'ForwardManagementContent' MUST support the invocation of the operation 'Encrypt' (6.6.2.2.4) at the interface 'Public Key Cryptographic Services' (SR5-6-239)) provided by WG_PKCS (6.6.2.1). SOW Annex-A [SR5-6-7] WG_JF_NET_LOW MUST support an operation 'ForwardManagement (IFCPE) capability WG_IFCPE that enables the WG to the low domain. SOW Annex-A [SR5-6-70] The WG MUST support an operation 'forwardMamagement raffic at WG_JF_NET_HIGH and WG_JF_NET_LIQW and accordance with the WG information flow policy WG_JFP. SOW Annex-A [SR5-6-71] The design of WG_JFCPE SHALL be such that the enforcement of policies WG_CFP_L_LV and WG_CP_L_H_LV and WG_CP_L_H_S Can be supported (see 6.2.4). SOW Annex-A [SR5-6-72] For the flow of information for WG_JF_NET_	SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-57] [SR5-6-57] [SR5-6-58] [SR5-6-58] [SR5-6-6] [SR5-6-6] [SR5-6-61] [SR5-6-61] [SR5-6-63]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IETF RFC 4215, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog: • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Intelligent Platform Management' MAY support the following management protocol: • Remote Protocol (INTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (INTTP) v2 Web interface. [IETF RFC 7540, 2014] • Remote Protecdure Call (RPC). • Keyboard, video and mouse (KVM) over Ethernet; • Command Line interface (Cul) via Secure Shell (SSH) WG_IFNET_LOW MUST support an operation 'ReceiveLow' that receives (transfer-in) data from the low domain for processing by the WG. The interface 'Core Services Management' MUST support tan operation 'ReceiveManagementContent' that receives external management traffic for further processing. The operation 'ReceiveManagementContent' MUST support Transport Layer Security (TLS, [IETF RFC 2846, 2018]). The operation 'ReceiveManagementContent' MUST support the invocation of the operations 'Verify' (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface 'Public Key Cryptographic Services' (ISR-6-239)] provided by WO_RCS (6.6.2.1).		
Impessages for further processing. Impessages for further processing. SOW Annex-A [S85-6-66] After receiving a management message from one of the interfaces offered by WG_MGMT ([SR5-6-522]), the operation Impessages (ForwardManagementContent' SHALL forward the management message, as payload of the appropriate management protocol, to the management domain. SOW Annex-A [S85-6-67] The operation 'ForwardManagementContent' MUST support Transport Layer Security (TLS, [ETF RFC 8446, 2018)). Impessages (ForwardManagementContent' MUST support the Secure Shell Protocol (SsH) [ETF RFC 4251, 2006]. SOW Annex-A [S85-6-69] The operation 'ForwardManagementContent' MUST support the invocation of the operation 'Encrypt' (6.6.2.2.4) at the interface 'Public Key Cryptographic Service's (ISR5-6-239)) provide by WG_PKCS (6.2.1). Impessages (Sof Anterface) SOW Annex-A [S85-6-77] WG_JF_NET_LOW MUST support an operation 'ForwardLow' that forwards (transfer-out) data that has been processed by the WG to the low domain. Impessage SOW Annex-A [S85-6-70] The WG MUST provide an information flow control policy enforcement (IFCPE) capability WG_JFCPE that enables the WG to: Indexide the flow of information flow control policy enforcement of policies WG_CIP_LLV and WG_JFP. Impessage (Sof Anterface) (Sof Anterfac	SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-57] [SR5-6-57] [SR5-6-58] [SR5-6-58] [SR5-6-6] [SR5-6-6] [SR5-6-61] [SR5-6-61] [SR5-6-63]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP trafic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG, DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols:		
SOW Annex-A [SR5-6-66] After receiving a management message from one of the interfaces offered by WG_MGMT ([SR5-6-252]), the operation ForwardManagementContent' SHALL forward the management message, as payload of the appropriate management protocol, to the management domain. SOW Annex-A [SR5-6-67] The operation 'ForwardManagementContent' MUST support Transport Layer Security (TL5, [IETF RFC 8446, 2018]). SOW Annex-A [SR5-6-67] The operation 'ForwardManagementContent' MUST support the invocation of the operation [SIM] [IETF RFC 8446, 2018]). SOW Annex-A [SR5-6-70] The operation 'ForwardManagementContent' MUST support the invocation of the operation 'Encrypt' (6.6.2.14) at the interface' Public Key Cryptographic Services' (SR5-6-239) [provided by WG_PKC5 (6.6.2.1). SOW Annex-A [SR5-6-70] The WG IFT_UOW MUST support an operation 'ForwardManagement transfore could be transfer-out) data that has been processed by the WG to the low domain. SOW Annex-A [SR5-6-71] The WG MUST provide an information flow control policy enforcement (IFCPE) capability WG_IFCPE that enables the WG information flow policy WG_IFP; • ontrol incoming and outgoing management traffic at WG_IF_NET_LOW in accordance with the WG information flow policy WG_IFP. SOW Annex-A [SR5-6-71] The design of WG_IFCPE SHALL be such that the enforcement of policies WG_CIP_LH_LV and WG_CIP_H_SV can be supported (see 6.2.4). SOW Annex-A [SR5-6-73] The interface 'Information form WG_IF_NET_HIGH to WG_IF_NET_LOW, WG_IFCPE MUST offer an interface 'IFCPE Services High	SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-57] [SR5-6-57] [SR5-6-58] [SR5-6-59] [SR5-6-6] [SR5-6-6] [SR5-6-61] [SR5-6-62] [SR5-6-63] [SR5-6-64]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [EFF RFC 4251, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog: • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Intelligent Platform Management Merface (IPT RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v2 Web interface, [IETF RFC 7540, 2014] • Remote Desctog (RDP). The interface 'Core Services Management' MAY support the following management protocol: • Remote Procedure Call (RPC). • Keyboadr, Video and mouse (KVM) over Ethernet; • Command Line interface (ICU) via Secure Shell (SSH) WG_JF_NET_LOW MUST support an operation 'Receives (transfer-in) data from the low domain for processing by the WG. The interface 'Core Services Management' MUST support an operation 'ReceiveManagementContent' that receives external management traffic for further processing. The operation 'ReceiveManagementContent' MUST support Transport Layer Security (TLS, [IETF RFC 8446, 2018]). The operation 'ReceiveManagementContent' MUST support the invocation of the operations 'Verify' (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface 'Public Key Cryptographic Services' (ISK-6-2.39]) provided by WG_PKCS (6.6.2.1). The operation 'ReceiveManagementContent' MUST support the processing.		
ForwardManagementContent' SHALL forward the management message, as payload of the appropriate management protocol, to the management domain. Imagement domain. SOW Annex-A [SR5-6-67] The operation 'ForwardManagementContent' MUST support the security (TLS, [IETF RFC 8446, 2018)]. Imagement domain. SOW Annex-A [SR5-6-68] The operation 'ForwardManagementContent' MUST support the invocation of the operation 'Encrypt' (6.6.2.2.4) at the interface 'Public Key Cryptographic Services' (ISR5-6-239)] provided by WG, PKCS (6.6.2.1). Imagement domain. SOW Annex-A [SR5-6-70] WG_IF_NET_LOW MUST support an operation 'ForwardLow' that forwards (transfer-out) data that has been processed by the WG to the low domain. Imagement domain. SOW Annex-A [SR5-6-70] The WG MUST provide an information flow control policy enforcement (IFCPE) capability WG_IFCPE that enables the WG to:	SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-57] [SR5-6-57] [SR5-6-58] [SR5-6-59] [SR5-6-6] [SR5-6-6] [SR5-6-61] [SR5-6-62] [SR5-6-63] [SR5-6-64]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IETF RFC 4251, 2006]; • Simple Network Management Interface (IPMI) [IPMI V2.0, 2013]; • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v2 Web interface'. [IETF RFC 7540, 2014] • Remote Desktop (RDP). The interface 'Core Services Management' MAY support the following management protocol: • Remote Procedure Call (BPC). • Keyboard, video and mouse (KVM) over Ethernet; • Command Line interface (CUI) via Secure Shell (SSH) WG_IFNETLOW MUST support an operation 'ReceiveLow' that receives (transfer-in) data from the low domain for processing by the WG. The interface 'Core Services Management' MUST support an operation 'ReceiveManagementContent' that receives external management traffic for further processing. The operation 'ReceiveManagementContent' MUST support Transport Layer Security (TLS, [IETF RFC 4245, 2018]). The operation 'ReceiveManagementContent' MUST support the invocation of the operations' Verify (6.6.2.2.3) and 'Decryt' (6.6.2.2.5) at the interface' Core Services ManagementContent' MUST support the invocation of the operations' Verify (6.6.2.2.3) and 'Decryt' (6.6.2.2.5) at the interface' Walk MagementContent' SHALL pass management content in the form of a management message to the appropriate interface 'Gree Services ManagementContent' SHALL pass management content in the form of a management trafe interface 'Gree Servites Ma		
SOW Annex-A [SR5-6-7] The operation 'ForwardManagementContent' MUST support Transport Layer Security (TLS, [IETF RFC 8446, 2018)]. Image: Content of The operation 'ForwardManagementContent' MUST support the security (TLS, [IETF RFC 8446, 2018)]. Image: Content of The operation 'ForwardManagementContent' MUST support the invocation of the operation 'Encrypt' (6.6.2.2.4) at the interface 'Public Key Image: Content of The operation 'ForwardManagementContent' MUST support the invocation of the operation 'Encrypt' (6.6.2.2.4) at the interface 'Public Key Image: Content of The operation 'ForwardManagementContent' MUST support the invocation of the operation 'Encrypt' (6.6.2.2.4) at the interface 'Public Key SOW Annex-A [SR5-6-70] WG_[F_NET_LOW MUST support an operation 'ForwardManagement traffic torwardLow' that forwards (transfer-out) data that has been processed by the WG to the low domain. SOW Annex-A [SR5-6-70] The WG MUST provide an information flow control policy enforcement (IFCPE) capability WG_IFCPE that enables the WG to:	SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-56] [SR5-6-57] [SR5-6-58] [SR5-6-59] [SR5-6-60] [SR5-6-61] [SR5-6-61] [SR5-6-63] [SR5-6-63] [SR5-6-64]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • 'Transport Layer protocol [IET RFC 421, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog; • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Intelligent Core Services Management' MAY support the following management protocol: (HTTP) v1. Web interface, [IETF RFC 7540, 2014] • Remote Desktop (RDP). The interface 'Core Services Management' MAY support the following management protocol: • Remote Procedure Call (RPC). • Command Line interface (LIV) was Secure Shell (SSH) WG_JF_NET_LOW MUST support an operation 'ReceiveLow' that receives (transfer-in) data from the low domain for processing by the WG. The interface 'Core Services Management' MUST support target Protocol (SNL) [IETF RFC 7446, 2018]). The operation 'ReceiveManagementContent' MUST support target Protocol (SNL) [IETF RFC 4846, 2018]). The operation 'ReceiveManagementContent' MUST support target Protocol (SNL) [IETF RFC 4846, 2018]). The operation 'ReceiveManagementContent' MUST support the invocation of the operations 'Verify' (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface 'Dublic Key Cryptographic Services' (ISRS-6-239]) provided by WG_PKCS (6.6.2.1). The operation 'ReceiveManagementContent' MUST support the invocation of the operations 'Verify' (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface Public Key Cryptographic Services' (ISRS-6-239]) provided by WG_PKCS		
SOW Annex-A [SR5-6-73] The operation 'ForwardManagementContent' MUST support the Secure Shell Protocol (SSH) [IETR FIC 4251, 2006]. Image: Som Annex-A [SR5-6-63] The operation 'ForwardManagementContent' MUST support the inversation of the operation 'Encrypt' (6.6.2.2.4) at the interface 'Public Key Cryptographic Services' (ISR5-6-239) provided by WG_PKCS (6.6.2.1). SOW Annex-A [SR5-6-70] WG_IF_NET_LOW MUST support an operation 'ForwardLow' that forwards (transfer-out) data that has been processed by the WG to the low domain. SOW Annex-A [SR5-6-70] The WG MUST provide an information flow control policy enforcement (IFCPE) capability WG_IFCPE that enables the WG to:	SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-56] [SR5-6-57] [SR5-6-58] [SR5-6-59] [SR5-6-60] [SR5-6-61] [SR5-6-61] [SR5-6-63] [SR5-6-63] [SR5-6-64]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IETF RFC 4251, 2006]; • Simple Network Management Interface (IPMI) [IPMI V2.0, 2013]; • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v2 Web interface'. [IETF RFC 7540, 2014] • Remote Desktop (RDP). The interface 'Core Services Management' MAY support the following management protocol: • Remote Procedure Call (BPC). • Keyboard, video and mouse (KVM) over Ethernet; • Command Line interface 'Core Services Management' MUST support an operation 'ReceiveManagementContent' that receives setternal management traffic for further processing. The operation 'ReceiveManagementOntent' MUST support an operation 'ReceiveManagementContent' that receives external management traffic for further processing. The operation 'ReceiveManagementContent' MUST support Transport Layer Security (TLS, [IETF RFC 4245, 2018]). The operation 'ReceiveManagementContent' MUST support the invocation of the operations' Verify (6.6.2.2.3) and 'Decryt' (6.6.2.2.5) at the interface 'Core Services ManagementContent' MUST support the invocation of the operations' Verify (6.6.2.2.3) and 'Decryt' (6.6.2.2.5) at the interface 'Deciser ManagementContent' MUST support the invocation of the operations' Verify (6.6.2.2.3) and 'Decryt' (6.6.2.2.5) at the interface 'Ore Services Management' MUST support the invocation of the operations' Verify (6.6.2.2.3) and 'Decryt' (6.6.2.2.5) at the		
SOW Annex-A [SR5-6-73] The operation 'ForwardManagementContent' MUST support the invocation of the operation 'Encrypt' (6.6.2.2.4) at the interface 'Public Key Cryptographic Services' (ISR5-6-23) SOW Annex-A [SR5-6-70] WG_IF_RCT_LOW MUST support an operation 'ForwardLow' that forwards (transfer-out) data that has been processed by the WG to the low domain. SOW Annex-A SOW Annex-A [SR5-6-70] The WG MUST provide an information flow control policy enforcement (IFCPE) capability WG_IFCPE that enables the WG to the WG information flow policy WG_IFP; • Mediate the flow of information between WG_IF_NET_HGH and WG_IF_NET_LOW in accordance with the WG information flow policy WG_IFP; SOW Annex-A [SR5-6-72] The design of WG_IFCPE SHALL be such that the enforcement of policies WG_CIP_LL_V and WG_CIP_HL_SV can be supported (see 6.2.4). SOW Annex-A [SR5-6-72] For the flow of information from WG_IF_NET_HIGH to WG_IF_NET_LOW, WG_IFCPE MUST offer an interface 'IFCPE Services High to Low' that accepts information from WG_IF_NET_HIGH to WG_IF_NET_LOW, WG_IFCPE MUST offer an interface 'IFCPE Services High to Low' that accepts information for further processing. SOW Annex-A [SR5-6-73] The information for WG_IF_NET_HIGH to WG_IF_NET_LOW, WG_IFCPE MUST offer an interface 'IFCPE Services High to Low' that accepts information for WM_IF_NET_HOM to WG_IF_NET_LOW, WG_IFCPE MUST offer an interface 'IFCPE Services High to Low' that accepts information for WM_UST support an operation 'Enforce HL Communications IFCPE' HALL enforce the policy WG_IFP_CA_HL_NON the following information flow: • Source: Communicat	SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-57] [SR5-6-57] [SR5-6-58] [SR5-6-59] [SR5-6-60] [SR5-6-60] [SR5-6-61] [SR5-6-62] [SR5-6-63] [SR5-6-64] [SR5-6-65] [SR5-6-66]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [EFF RFC 4251, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog: • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Intelligent Platform Management Metrace (IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v1.1 Web interface (IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v2.0 binterface, [IETF RFC 7540, 2014] • Remote Deschog (RDP). • Keyboadr, Video and mouse (KVM) over Ethernet; • Command Line interface (CIU) via Secure Shell (SSH) WG_IF_NET_LOW MUST support an operation 'Receives (transfer-in) data from the low domain for processing by the WG. The interface 'Core Services Management' MUST support an operation 'ReceiveManagementContent' that receives external management traffic for further processing. The operation 'ReceiveManagementContent' MUST support Transport Layer Security (TLS, [IETF RFC 8446, 2018]). The operation 'ReceiveManagementContent' MUST support Transport Layer Security (TLS, [IETF RFC 8446, 2018]). The operation 'ReceiveManagementContent' MUST support Transport Layer Security (TLS, [IETF RFC 8446, 2018]). The operation 'ReceiveManagementContent' MUST support the secure Shell Protocol (SSH] [IETF RFC 8446, 2018]). The operation 'ReceiveManagementContent' MUST support the secure Shell Protocol (SSH] [IETF RFC 8446, 2018]). The operat		
Cryptographic Services' ([SRS-6-239]) provided by WG_PKCS (6.6.2.1). Image: Cryptographic Services' ([SRS-6-239]) provided by WG_PKCS (6.6.2.1). SOW Annex-A [SRS-6-70] WG_[F_NCT_LOW MUST support an operation 'ForwardLow' that forwards (transfer-out) data that has been processed by the WG to the low domain. Image: Cryptographic Services' ([SRS-6-70]) SOW Annex-A [SRS-6-70] The WG MUST provide an information flow control policy enforcement (FCPE) capability WG_IFCPE that enables the WG to: • Mediate the flow of information between WG_IF_NET_HIGH and WG_IF_NET_LOW in accordance with the WG information flow policy WG_IFP. • Control incoming and outgoing management traffic at WG_IF_MGMT in accordance with the WG information flow policy WG_IFP. • Control incoming on WG_IFCPE SHALL be such that the enforcement of policies WG_CIP_LLVA and WG_CIP_HL_SV can be supported (see 6.2.4). SOW Annex-A [SRS-6-72] For the flow of information from WG_IF_NET_HIGH to WG_IF_NET_LOW, WG_IFCPE MUST offer an interface 'IFCPE Services High to Low' that accepts information from WG_IF_NET_HIGH to WG_IF_NET_LOW, WG_IFCPE MUST offer an interface 'IFCPE Services High to Low' Image: Cryptographic Services High to Low' SOW Annex-A [SRS-6-72] The interface 'IFCPE Services High to Low' MUST support an operation 'Enforce HL Communications IFCPE' that enforces the policy WG_IFP_CA_HL. <ld>Source: Communications Access Services HL Interface -> ReceiveInternalNetworkHL; • Source: Communications Access Services HL Interface -> ReceiveInternalNetworkHL;</ld>	SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-57] [SR5-6-57] [SR5-6-58] [SR5-6-58] [SR5-6-6] [SR5-6-60] [SR5-6-60] [SR5-6-61] [SR5-6-63] [SR5-6-63] [SR5-6-65] [SR5-6-66] [SR5-6-66]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IETF RFC 4251, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog: • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Intelligent Platform Management' MAY support the following management protocol: (HTTP) v2 Web interface, [IETF RFC 7540, 2014] • Remote Pocedure Call (RPC). • Keyboard, video and mouse (IVMI) over Ethernet; • Command Line interface (CLI) via Secure Shell (SSH) WG_IFNETLOW MUST support an operation 'ReceiveLow' that receives (transfer-in) data from the low domain for processing by the WG. The interface 'Core Services Management' MUST support Transport Layer Security (TLS, [IETF RFC 2846, 2018]). The operation 'ReceiveManagementContent' MUST support Transport Layer Security (TLS, [IETF RFC 2846, 2018]). The operation 'ReceiveManagementContent' MUST support the invocation of the operation seage to the appropriate interface 'Core Services Management' MUST support the secure Shell Protocol (SSH] [IETF RFC 2451, 2006]. The operation 'ReceiveManagementContent' MUST support the secure Shell Protocol (SSH] [IETF RFC 2846, 2018]). The operation 'ReceiveManagementContent' MUST support the secure Shell Protocol (SSH] [IETF RFC 2846, 2018]). The operation 'ReceiveManagementContent' MUST support the secure Shell Protocol (SSH] [IETF RFC 2451, 2006]. The operat		
SOW Annex-A [SR5-6-70] WG_IF_NET_LOW MUST support an operation 'ForwardLow' that forwards (transfer-out) data that has been processed by the WG to the low Image: Comparison of the low of information flow control policy enforcement (IFCPE) capability WG_IFCPE that enables the WG to:	SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-56] [SR5-6-57] [SR5-6-58] [SR5-6-59] [SR5-6-60] [SR5-6-60] [SR5-6-61] [SR5-6-61] [SR5-6-63] [SR5-6-64] [SR5-6-66] [SR5-6-66]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IETF RFC 4215, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog: • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v2 Web interface, [IETF RFC 7540, 2014] • Remote Desktop (RDP). The interface 'Core Services Management' MAY support the following management protocol: • Remote Procedure Call (RPC). • Command Line interface (LU) via Secure Shell (SSH) WG_IF_NET_LOW MUST support an operation 'ReceiveLow' that receives (transfer-in) data from the low domain for processing by the WG. The interface 'Core Services Management' MUST support Transport Layer Security (TLS, [IETF RFC 7445, 2018]). The operation 'ReceiveManagementContent' MUST support an operation 'ReceiveManagementContent' that receives external management traffic for further processing. The operation 'ReceiveManagementContent' MUST support the isocation of the operations' Verify' (6.6.2.2.3) and 'Decryt' (6.6.2.2.5) at the interface 'Core Services ManagementContent' MUST support the isocation of the operations' Verify' (6.6.2.2.3) and 'Decryt' (6.6.2.2.5) at the interface 'Core Services ManagementContent' MUST support the isocation of the operations' Verify' (6.6.2.2.3) and 'Decryt' (6.6.2.2.5) at the interface 'Core Services Management' MUST support the isocation of the operations' Verify' (6.6.2.2.3) and 'Decryt' (6.6.2.2.5) at the interface' Core Serv		
SOW Annex-A [SR5-6-70] The WG MUST provide an information flow control policy enforcement (IFCPE) capability WG_IFCPE that enables the WG to: • Mediate the flow of information between WG_IF_NET_HIGH and WG_IF_NET_LOW in accordance with the WG information flow policy WG_IFP; • Control incoming and outgoing management traffic at WG_IF_MGMT in accordance with the WG information flow policy WG_IFP. SOW Annex-A [SR5-6-71] The design of WG_IFCPE SHALL be such that the enforcement of policies WG_CIP_LLV and WG_CIP_HL_SV can be supported (see 6.2.4). SOW Annex-A [SR5-6-72] For the flow of information from WG_IF_NET_HIGH to WG_IF_NET_LOW, WG_IFCPE MUST offer an interface 'IFCPE Services High to Low' that accepts information for thruther processing. Sow Annex-A SOW Annex-A [SR5-6-73] The interface 'IFCPE Services High to Low' WG_IFP_CA_HL. Yan on the following information flow: YG_IFP_CA_HL. SOW Annex-A [SR5-6-74] The interface 'IFCPE Services High to Low' WG_IFP_CA_HL_IN on the following information flow: YG_IFP_CA_HL.	SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-56] [SR5-6-57] [SR5-6-58] [SR5-6-59] [SR5-6-60] [SR5-6-60] [SR5-6-61] [SR5-6-61] [SR5-6-63] [SR5-6-64] [SR5-6-66] [SR5-6-66]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [EFF RFC 4251, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog: • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v2.0 web interface, [IETF RFC 7540, 2014] • Remote Desktog (RDP). • Remote Desktog (RDP). • Keyboadr, v1deo and mouse (KVM) over Ethernet; • Command Line interface (CIL) via Secure Shell (SSH) WG_JF_NET_LOW MUST support an operation 'ReceiveLow' that receives (transfer-in) data from the low domain for processing by the WG. The interface 'Core Services Management' MUST support Transport Layer Security (TLS, [IETF RFC 8446, 2018]). The operation 'ReceiveManagementContent' MUST support Transport Layer Security (TLS, [IETF RFC 8446, 2018]). The operation 'ReceiveManagementContent' MUST support Transport Layer Security (TLS, [IETF RFC 8446, 2018]). The operation 'ReceiveManagementContent' MUST support Transport Layer Security (TLS, [IETF RFC 8446, 2018]). The operation 'ReceiveManagementContent' MUST support the invocation of the operations 'verify' (6.6.2.2.3) at the interface 'Public Key Cryptographic Services' (ISR-6-2.39]) provided by WG_PKCS (6.6.2.1). The operation 'ReceiveManagementContent' MUST support the secure Shell Protocol (SSH) [IETF RFC 8446, 2018]). The		
• Mediate the flow of information between WG_IF_NET_HIGH and WG_IF_NET_LOW in accordance with the WG information flow policy Image: WG_IFP; • Control incoming and outgoing management traffic at WG_IF_MGMT in accordance with the WG information flow policy WG_IFP. Image: WG_IFP; SOW Annex-A [SR5-6-73] The design of WG_IFCPE SHALL be such that the enforcement of policies WG_CIP_LH_LV and WG_CIP_HL_SV can be supported (see 6.2.4). Image: WG_IFCPE SHALL be such that the enforcement of policies WG_IFCPE MUST offer an interface 'IFCPE Services High to Low' Image: WG_IFCPE SHALL be such that the enforcement of policies WG_IFCPE MUST offer an interface 'IFCPE Services High to Low' Image: WG_IFCPE SHALL be such that the enforcement of policies WG_IFCPE MUST offer an interface 'IFCPE Services High to Low' Image: WG_IFCPE SHALL be such that the enforcement of policies WG_IFCPE MUST offer an interface 'IFCPE Services High to Low' Image: WG_IFCPE SHALL be such that the enforcement of policies WG_IFCPE MUST offer an interface 'IFCPE Services High to Low' Image: WG_IFCPE SHALL be such that the enforcement of policies WG_IFCPE MUST offer an interface 'IFCPE Services High to Low' Image: WG_IFCPE SHALL be such that the enforcement of policies WG_IFCPE MUST offer an interface 'IFCPE Services High to Low' Image: WG_IFCPE SHALL be such that the enforcement of policies WG_IFCPE MUST offer an interface 'IFCPE Services High to Low' Image: WG_IFCPE SHALL be such that the enforcement of policies WG_IFCPE' that enforces the policy Image: WG_IFCPE SHALL be such that the enforcement of policies WG_IFCPE' that enforces the policy Image: WG_IFCPE SHALL be such that the enforcement offer CEPE' SHALL be such that the policy WG	SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-57] [SR5-6-57] [SR5-6-58] [SR5-6-58] [SR5-6-6] [SR5-6-6] [SR5-6-63] [SR5-6-63] [SR5-6-63] [SR5-6-64] [SR5-6-65] [SR5-6-66] [SR5-6-66] [SR5-6-66]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement dmain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IETF RFC 4215, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog: • Network Time Protocol; • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v2 Web interface, [IETF RFC 7540, 2014] • Remote Desktop (RDP). The interface 'Core Services Management' MAY support the following management protocol: • Remote Procedure Call (RPC). • Command Line interface (LU) via Secure Shell (SSH) WG_IF_NET_LOW MUST support an operation 'ReceiveLow' that receives (transfer-in) data from the low domain for processing by the WG. The interface 'Core Services Management' MUST support Tansport Layer Security (TLS, [IETF RFC 8446, 2018]). The operation 'ReceiveManagementContent' MUST support Tansport Layer Security (TLS, [IETF RFC 8446, 2018]). The operation 'ReceiveManagementContent' MUST support the invocation of the operations' Verify' (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface (Tore Services (TRSF-6-328]) provided by WG_PKCS (6.6.2.1). The operation 'ReceiveManagementContent' MUST support an operation 'ForwardManagementContent' that accepts outgoing management messages for further processing. The operation 'ReceiveManagementContent' MUST support the invocation of the operations' Verify' (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface of Core Services Management' MUST support an operation 'ForwardManagementContent' MUST		
WG_IFP; • Control incoming and outgoing management traffic at WG_IF_MGMT in accordance with the WG information flow policy WG_IFP. SOW Annex-A [SR5-6-71] The design of WG_IFCPE SHALL be such that the enforcement of policies WG_CIP_LH_LV and WG_CIP_HL_SV can be supported (see 6.2.4). SOW Annex-A [SR5-6-72] For the flow of information from WG_IF_NET_HIGH to WG_IF_NET_LOW, WG_IFCPE MUST offer an interface 'IFCPE Services High to Low' that accepts information for further processing. If interface 'IFCPE Services High to Low' MUST support an operation 'Enforce HL Communications IFCPE' that enforces the policy WG_IFP_CA_HL. SOW Annex-A [SR5-6-73] The interface 'IFCPE Services HL communications IFCPE' SHALL enforce the policy WG_IFP_CA_HL. SOW Annex-A [SR5-6-74] The operation 'Enforce HL Communications IFCPE' SHALL enforce the policy WG_IFP_CA_HL_IN on the following information flow: Source: - Source: Communications Access Services HL Interface -> ReceiveInternalNetworkHL; - Information: HTTP(S) traffic by ensuring the following conditions: - SeceiveWebContentHL;	SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-57] [SR5-6-57] [SR5-6-58] [SR5-6-58] [SR5-6-63] [SR5-6-64] [SR5-6-64] [SR5-6-64] [SR5-6-65] [SR5-6-66] [SR5-6-66] [SR5-6-68] [SR5-6-68] [SR5-6-68] [SR5-6-68] [SR5-6-68]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IETF RFC 4251, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog: • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v2.Web interface, [IETF RFC 7540, 2014] • Remote Desktop (RDP). The interface 'Core Services Management' MAY support the following management protocol: • Remote Procedure Call (RPC). • Keyboadr, video and mouse (KVM) over Ethernet; • Command Line interface (CLI) via Secure Shell (SSH) WG_I_RNET_LOW MUST support an operation 'Receives (transfer-in) data from the low domain for processing by the WG. The interface 'Core Services Management' MUST support Transport Layer Security (TLS, [IETF RFC 4846, 2018]). The operation 'ReceiveManagementContent' MUST support Transport Layer Security (TLS, [IETF RFC 4846, 2018]). The operation 'ReceiveManagementContent' MUST support Transport Layer Security (TLS, [IETF RFC 4846, 2018]). The operation 'ReceiveManagementContent' MUST support the secure Shell Protocol (SSH) [IETF RFC 4251, 2006]. The operation 'ReceiveManagementContent' MUST support Transport Layer Security (TLS, [IETF RFC 4846, 2018]). The operation 'ReceiveManagementContent' MUST support Transport Layer Security (TLS, [IETF RFC 4251, 2006]. The operation 'ReceiveMa		
• Control incoming and outgoing management traffic at WG_IF_MGMT in accordance with the WG information flow policy WG_IFP. Image: Control incoming and outgoing management traffic at WG_IF_MGMT in accordance with the WG information flow policy WG_IFP. Image: Control incoming and outgoing management traffic at WG_IF_MGMT in accordance with the WG information flow policy WG_IFP. Image: Control incoming and outgoing management traffic at WG_IF_MGMT in accordance with the WG information flow policy WG_IFP. Image: Control incoming and outgoing management traffic at WG_IF_MGMT in accordance with the WG information flow Support and Support and WG_IF_PL_LV and WG_CIP_HL_V and WG_CIP_HL_SV can be supported (see 6.2.4). Image: Control incoming and outgoing management traffic at WG_IF_MGMT in accordance with the wG information flow WG_IFP. Image: Control incoming and outgoing management traffic at WG_IF_MGMT in accordance with the WG information flow: Image: Control incoming and outgoing management traffic at WG_IFP_CA_HL_IV and WG_CIP_HL_V a	SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-57] [SR5-6-57] [SR5-6-58] [SR5-6-59] [SR5-6-63] [SR5-6-64] [SR5-6-64] [SR5-6-64] [SR5-6-65] [SR5-6-66] [SR5-6-66] [SR5-6-68] [SR5-6-68] [SR5-6-68] [SR5-6-68] [SR5-6-69]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement 'that forwards IP traffic to the management domain. The operation ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: • Transport Layer protocol [IETF RFC 7412, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; • Syslog: • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; • Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v2 Web interface, [IETF RFC 7540, 2014] • Remote Poscedure Call (RPC). • Keyboard, video and mouse (KVM) over Ethernet; • Command Line interface (Cul) via Secure Shell (SSH) WG_IF_NET_LOW MUST support an operation 'ReceiveLow' that receives (transfer-in) data from the low domain for processing by the WG. The interface 'Core Services Management' MUST support Transport Layer Security (TLS, [IETF RFC 42451, 2006]. The operation 'ReceiveManagementContent' MUST support an operation 'ReceiveManagementContent' that receives external management traffic for further processing. The operation 'ReceiveManagementContent' MUST support the Invocation of the operations 'Verfi (6.6.2.2.3) and 'Decryt' (6.6.2.2.5) at the interface 'Core Services ManagementContent' MUST support the Necution for more anagement message to the appropriate interface 'Gree Services ManagementContent' MUST support the invocation of the operations 'Verfi (6.6.2.2.3) and 'Decryt' (6.6.2.2.5) at the interface 'Ublic Key Cryptographic Service' (ISR-6-252)]) provided by WG_MCS (IG.6.2.1). The operation 'ReceiveManagementContent' MUST support the invocation of the operations 'Verfi (Se.2.2.3) at the interface 'Core Services		
SOW Annex-A [SRS-6-73] The design of WG_JFCPE SHALL be such that the enforcement of policies WG_CIP_LH_LV and WG_CIP_HL_SV can be supported (see 6.2.4). Image: Comparison of WG_JFCPE SHALL be such that the enforcement of policies WG_CIP_LH_LV and WG_CIP_HL_SV can be supported (see 6.2.4). Image: Comparison of WG_JFCPE SHALL be such that the enforcement of policies WG_CIP_LH_LV and WG_CIP_HL_SV can be supported (see 6.2.4). Image: Comparison of WG_JFCPE SHALL be such that the enforcement of policies WG_CIP_LH_LV and WG_CIP_HL_SV can be supported (see 6.2.4). Image: Comparison of WG_JFCPE SHALL be such that the enforcement of policies WG_CIPCPE MUST offer an interface 'IFCPE Services High to Low' Image: Comparison of WG_JFCPE SHALL enforce the UC MUST offer an interface 'IFCPE Services High to Low' Image: Comparison of WG_JFCPE SHALL enforce the Comparison of IFCPE' that enforces the policy Image: Comparison of WG_JFCPE SHALL enforce the policy WG_JFCP_CA_HL_IN on the following information flow: Image: Comparison of WG_JFCPE SHALL enforce the policy WG_JFCP_CA_HL_IN on the following information flow: Image: Comparison of WG_JFCPE SHALL enforce the policy WG_JFCP_CA_HL_IN on the following information flow: Image: Comparison of WG_JFCPE SHALL enforce the policy WG_JFCP_CA_HL_IN on the following information flow: Image: Comparison of WG_JFCPE SHALL enforce the policy WG_JFCP_CA_HL_IN on the following information flow: Image: Comparison of WG_JFCPE SHALL enforce the Comparison of WG_JFCPE SHALL enforce the UC WG_JFCP_CA_HL_IN on the following information flow: Image: Comparison of WG_JFCPE SHALL enforce the POLICY WG_JFCPE SHALL enforce the UC WG_JFCPE SHALL enforce the UC WG_JFCP_CA_HL_IN on the following information flow: Image: Comparison of WG_JFC	SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-57] [SR5-6-57] [SR5-6-58] [SR5-6-59] [SR5-6-63] [SR5-6-64] [SR5-6-64] [SR5-6-64] [SR5-6-65] [SR5-6-66] [SR5-6-66] [SR5-6-68] [SR5-6-68] [SR5-6-68] [SR5-6-68] [SR5-6-69]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: * Transport Layer protocol [EFF RFC 4251, 2006]; * Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; * Syslog: * Network Time Protocol; * Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; * Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; * Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) v2.0 be interface, [IETF RFC 7540, 2014] * Remote Desktop (RDP). * Remote Desktop (RDP). * Keyboadr, v1.0460 and mouse (IVM) over Ethernet; * Command Line interface (CIL) via Secure Shell (SSH) WG_JF_NET_LOW MUST support an operation 'Receives (transfer-in) data from the low domain for processing by the WG. The interface 'Core Services Management' MUST support an operation 'ReceiveManagementContent' that receives external management traffic for further processing. The operation 'ReceiveManagementContent' MUST support Transport Layer Security (TLS, [IETF RFC 8446, 2018]). The operation 'ReceiveManagementContent' MUST support Transport Layer Security (ILS, IETF RFC 4251, 2006]. The operation 'ReceiveManagementContent' MUST support Transport Layer Security (ILS, IETF RFC 8446, 2018]). The operation 'ReceiveManagementContent' MUST support Transport Layer Security (ILS, IETF RFC 8446, 2018]). The operation 'ReceiveManagementContent' MUST support Transport Layer Security (ILS, IETF RFC 8446, 2018]). The operation 'ReceiveManagementContent' MUST support Transport Layer Se		
SOW Annex-A [SR5-6-73] The interface 'IFCPE Services High to Low' MUST support an operation 'Enforce HL Communications IFCPE' that enforces the policy WG_IFP_CA_HL. SOW Annex-A [SR5-6-74] The operation 'Enforce HL Communications IFCPE' SHALL enforce the policy WG_IFP_CA_HL_IN on the following information flow: • Source: Communications SICPE' SHALL enforce the policy WG_IFP_CA_HL_IN on the following information flow: • Source: Communications Services HL Interface -> ReceiveInternalNetworkHL; • Destination: SOA Platform Services HL Interface -> ReceiveWebContentHL; • Information: HTTP(S) traffic; • Operation: pass HTTP(S) traffic by ensuring the following conditions:	SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-57] [SR5-6-57] [SR5-6-58] [SR5-6-59] [SR5-6-63] [SR5-6-64] [SR5-6-64] [SR5-6-64] [SR5-6-65] [SR5-6-66] [SR5-6-66] [SR5-6-68] [SR5-6-68] [SR5-6-68] [SR5-6-68] [SR5-6-69]	The interface 'Cormunications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF.RFC 7414, 2015]. WG. DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Service Management' MUST support the following management protocols: • 'Transport Layer protocol [IETF.RFC 4251, 2006]; • Simple Network Management Protocol (SNMP) Version 3 [IETF.RFC 3410 – 3418, 2002]; • Syslog: • Network Time Protocol; • Intelligent Platform Management Interface (IPMI) (IPMI V2.0, 2013]; • Intelligent Platform Management Interface (IPMI) (IPMI V2.0, 2013]; • Hyper-Text Transport Protocol (HTTP) v1.1 Web interface [IETF.RFC 7230, 2014] [IETF.RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) V2 Web interface, [IETF.RFC 7540, 2014] • Remote Desktop (RDP). The interface 'Core Services Management' MAY support the following management protocol: • Remote Procedure Call (RPC). • Keyboard, video and mouse (KVM) over Ethernet; • Command Line interface (CLI) via Secure Shell (SSH) WG _IFNETLOW MUST support an operation 'ReceiveLow' that receives (transfer-in) data from the low domain for processing by the WG. The operation 'ReceiveManagementContent' MUST support transport Layer Security (TLS, [IETF.RFC 8446, 2018]). The operation 'ReceiveManagementContent' MUST support transport Layer Security (TLS, [IETF.RFC 8446, 2018]). The operation 'ReceiveManagementContent' MUST support transport Layer Security (TLS, [IETF.RFC 8446, 2018]). The operation 'ReceiveManagementContent' MUST support the secure Shell Protocol (SSH) [IETF.RFC 4251, 2006]. The operation 'ReceiveManagementContent' MUST support an operation of the operations 'Verify' (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface 'Public Key Cryptographic Services' Shell Protocol (SSH) [IETF.RFC 4251, 2006		
SOW Annex-A [SR5-6-73] The interface 'IFCPE Services High to Low' MUST support an operation 'Enforce HL Communications IFCPE' that enforces the policy WG_IFP_CA_HL. SOW Annex-A [SR5-6-74] The operation 'Enforce HL Communications IFCPE' SHALL enforce the policy WG_IFP_CA_HL_IN on the following information flow: • Source: Communications SICPE' SHALL enforce the policy WG_IFP_CA_HL_IN on the following information flow: • Source: Communications Services HL Interface -> ReceiveInternalNetworkHL; • Destination: SOA Platform Services HL Interface -> ReceiveWebContentHL; • Information: HTTP(S) traffic; • Operation: pass HTTP(S) traffic by ensuring the following conditions:	SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-56] [SR5-6-57] [SR5-6-58] [SR5-6-59] [SR5-6-63] [SR5-6-63] [SR5-6-64] [SR5-6-64] [SR5-6-64] [SR5-6-65] [SR5-6-65] [SR5-6-66] [SR5-6-67] [SR5-6-69] [SR5-6-77] [SR5-6-70]	The interface 'Cormunications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' MUST support the following management protocols: Transport Layer protocol [IETF RFC 4251, 2006]; Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; Syslog: Network Time Protocol; Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; Network Time Protocol; Network Time Protocol (INTP) V1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (INTP) V1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (INTP) V1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (INTP) V1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (INTP) V2.0, 2013]; Kemoto Dexkog (IRDP). The interface 'Core Services Management' MAY support the following management protocol: Remote Deckog (IRDP). The interface 'Core Services Management' MUST support an operation 'ReceiveManagementContent' that receives external management taffic for further processing. The operation 'ReceiveManagementContent' MUST support an operation 'ReceiveManagementContent' that receives external management taffic for further processing. The operation 'ReceiveManagementContent' MUST support the invocation of the operations 'Verify (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface 'Core Services Management' MUST support the invocation of the operation wetry' (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface offered by WG, MGMT (ISRS-6-252)) for further processing. The operation 'ReceiveManagementContent' MUST support the invocation of the operations 'Verify (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface offered by WG, MGMT (ISRS-6-2		
SOW Annex-A [SR5-6-73] The interface 'IFCPE Services High to Low' MUST support an operation 'Enforce HL Communications IFCPE' that enforces the policy WG_IFP_CA_HL SOW Annex-A [SR5-6-74] The operation 'Enforce HL Communications IFCPE' SHALL enforce the policy WG_IFP_CA_HL_IN on the following information flow: Source: Communications Access Services HL Interface -> ReceiveInternalNetworkHL; Destination: SOA Platform Services HL Interface -> ReceiveWebContentHL; Information: HTTP(S) traffic; Operation: pass HTTP(S) traffic by ensuring the following conditions: 	SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-56] [SR5-6-57] [SR5-6-58] [SR5-6-58] [SR5-6-6] [SR5-6-6] [SR5-6-6] [SR5-6-63] [SR5-6-63] [SR5-6-64] [SR5-6-65] [SR5-6-66] [SR5-6-66] [SR5-6-67] [SR5-6-68] [SR5-6-70] [SR5-6-71]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation' <i>ForwardNetworkManagement'</i> MUST support error handling as specified in [IETF RFC 7414, 2015]. WG DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: * Transport Layer protocol [IETF RFC 4351, 2006]; Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; * Syslog; * Network Time Protocol; * Network Time Protocol; * Transport Protocol (HTTP) V1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) V1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) V1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) V1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) V2.0 yeb retsores Management' MAY support the following management protocol: Remote Dexktop (RDP). The interface 'Core Services Management' MAY support the following management protocol: Keyboard, video and mouse (KVM) over Ethernet; Command line interface (IET RFC 7230, 2014) interface 'Core Services Management'. MUST support an operation 'ReceiveManagementContent' that receives external management traffic for further processing. The operation 'ReceiveManagementContent' MUST support tare operation 'ReceiveManagementContent' that receives external management traffic for further processing. The operation 'ReceiveManagementContent' MUST support the operation 'Yerfy' (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface 'Public Key Cryptographic Services' (ISRS-6-239) provided by WG_PKCS (6.6.2.1). The operation 'ReceiveManagementContent' MUST support the operation 'ForwardManagement message to the appropriate interface 'Pu		
WG_IFP_CA_HL WG_FP_CA_HL SOW Annex-A The operation 'Enforce HL Communications IFCPE' SHALL enforce the policy WG_IFP_CA_HL_IN on the following information flow: Source: Communications Access Services HL Interface -> ReceiveInternalNetworkHL; Destination: SOA Platform Services HL Interface -> ReceiveWebContentHL; Information: HTTP(S) traffic by ensuring the following conditions: Operation: pass HTTP(S) traffic by ensuring the following conditions: 	SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-56] [SR5-6-57] [SR5-6-58] [SR5-6-58] [SR5-6-6] [SR5-6-6] [SR5-6-6] [SR5-6-63] [SR5-6-63] [SR5-6-64] [SR5-6-65] [SR5-6-66] [SR5-6-66] [SR5-6-67] [SR5-6-68] [SR5-6-70] [SR5-6-71]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: * Transport Layer protocol [IETF RFC 4251, 2006]; Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 – 3418, 2002]; Syslog; Network Time Protocol; Interface '(Core Services Management' MUST 20, 2013]; * Hyper-Text Transport Protocol (HTTP) 1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) 1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) 1.1 Web interface (IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) 1.2 Web interface (ICT) as a secure Shell (SSH) WG, JF, NET_LOW MUST support an operation ReceiveLow' that receives (transfer-in) data from the low domain for processing by the WG. The interface 'Core Services Management' MUST support than operation 'ReceiveManagementContent' that receives external management traffic for further processing. The operation 'ReceiveManagementContent' MUST support the secure Shell Protocol (SSH) [IETF RFC 4251, 2006]. The operation 'ReceiveManagementContent' MUST support the secure Shell Protocol (SSH) [IETF RFC 4251, 2006]. The operation 'ReceiveManagementContent' MUST support the secure Shell Protocol (SSH) [IETF RFC 4251, 2006]. The operation 'ReceiveManagementContent' MUST support the secure Shell Protocol (SSH) [IETF RFC 4251, 2006]. The operation 'ReceiveManagementContent' MUST support the secure Shell Protocol (SSH) [IETF RFC 4251, 2006]. The operation 'ReceiveManagementContent' MUST support the secure Shell Protocol (SSH) [IETF RFC 4251, 2006]. The operation 'Recei		
SOW Annex-A [SR5-6-74] The operation 'Enforce HL Communications IFCPE' SHALL enforce the policy WG_IFP_CA_HL_IN on the following information flow: Source: Communications Access Services HL Interface -> ReceiveInternalNetworkHL; Destination: SOA Platform Services HL Interface -> ReceiveWebContentHL; Information: HTTP(S) traffic; Operation: pass HTTP(S) traffic by ensuring the following conditions: Operation: pass HTTP(S) traffic by ensuring the following conditions: Operation: Pass HTTP(S) traffic by ensuring the following conditions: Operation: Pass HTTP(S) traffic by ensuring the following conditions: Operation: Pass HTTP(S) traffic by ensuring the following conditions: Operation: Pass HTTP(S) traffic by ensuring the following conditions: Operation: Pass HTTP(S) traffic by ensuring the following conditions: Operation: Pass HTTP(S) traffic by ensuring the following conditions: Operation: Pass HTTP(S) traffic by ensuring the following conditions: Operation: Pass HTTP(S) traffic by ensuring the following conditions: Operation: Pass HTTP(S) traffic by ensuring the following conditions: Operation: Pass HTTP(S) traffic by ensuring the following conditions: Operation: Pass HTTP(S) traffic by ensuring the following traffic by ensuring traff	SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-57] [SR5-6-57] [SR5-6-58] [SR5-6-58] [SR5-6-63] [SR5-6-64] [SR5-6-64] [SR5-6-64] [SR5-6-65] [SR5-6-64] [SR5-6-66] [SR5-6-66] [SR5-6-67] [SR5-6-68] [SR5-6-70] [SR5-6-71] [SR5-6-71] [SR5-6-72]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: * Transport Layer protocol [IETF RFC 451, 2006]; Simple Network Management Interface (IPMI) [IPMI V2.0, 2013]; intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; * Hyper-Text Transport Protocol (HTTP) V1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol (HTTP) V2.0, 2014] * Remote Desktop (RDP). The interface 'Core Services Management' MAY support the following management protocol: * Reyboard, video and mouse (KVM) over Ethernet; Command Lin interface (LIPR). The operation 'ReceiveManagement' MUST support an operation 'ReceiveManagementContent' that receives external management traffic for further processing. The operation 'ReceiveManagementContent' MUST support an operation 'ReceiveManagementContent' that receives external management traffic for further processing. The operation 'ReceiveManagementContent' MUST support the scure Shell Protocol (STI) [IETF RFC 4246, 2018]). The operation 'ReceiveManagementContent' MUST support to ransport Layer Security (TLS, [IETF RFC 4246, 2018]). The operation 'ReceiveManagementContent' MUST support the operation 'ReceiveManagementContent' that receives external management traffic for further processing. The interface 'Core Services ManagementContent' MUST support the operation 'ReceiveManagementContent' MUST support the operatio		
Source: Communications Access Services HL Interface -> ReceiveInternalNetworkHL; Oestination: SOA Platform Services HL Interface -> ReceiveWebContentHL; Information: HTTP(S) traffic; Operation: pass HTTP(S) traffic by ensuring the following conditions:	SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-57] [SR5-6-57] [SR5-6-58] [SR5-6-58] [SR5-6-63] [SR5-6-64] [SR5-6-64] [SR5-6-64] [SR5-6-65] [SR5-6-64] [SR5-6-66] [SR5-6-66] [SR5-6-67] [SR5-6-68] [SR5-6-70] [SR5-6-71] [SR5-6-71] [SR5-6-72]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management MUST support the following management protocols: * Transport Layer protocol [IETF RFC 4521, 2006]; Simple Network Management Interface (IPMI) [IPMI V2.0, 2013]; * Hyper-Text Transport Protocol (INTP) v1.1 Web interface [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol [HTTP v2.1 Web interface [IETF RFC 7540, 2014] * Remote Desktop (RDP). The interface (TC 540, 2014) * Remote Procedure Call (RPC). * Keyboadr, video and mouse (KVM) over Ethernet; Command Line Interface (LII Via Secure Shell (SSH) WG JF, NET_LOW MUST support an operation 'ReceiveLow' that receives (transfer-in) data from the low domain for processing by the WG. The interface 'Core Services Management' MUST support Tansport Layer Security (TLS, IETF RFC 4446, 2018). The operation 'ReceiveManagementContent' MUST support Tansport Layer Security (TLS, IETF RFC 4446, 2018). The operation 'ReceiveManagementContent' MUST support Tansport Layer Security (TLS, IETF RFC 4446, 2018). The operation 'ReceiveManagementContent' MUST support Tansport Layer Security (TLS, IETF RFC 4446, 2018). The operation 'ReceiveManagementContent' MUST support Tansport Layer Security (G.6.2.2.3) and 'Decrypt' (G.6.2.2.5) at the interface 'Orpore Services' (SAS-6-323)) provided by WG, PKCS (G.6.2.1). The operation 'ReceiveManagementContent' MUST support the secure Shell Protocol (SH) [IETF RFC 4446, 2018). The operation 'ReceiveManagementContent' MUST support the secure Shell Protocol (SH) [IETF RFC 4446, 2018). The operation 'ReceiveManagementContent' MUST support the rowcalion of the operations 'Verify (G.6.2.2.3) and 'Decrypt' (G.6.2.2.		
 Information: HTTP(S) traffic; Operation: pass HTTP(S) traffic by ensuring the following conditions: 	SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-57] [SR5-6-57] [SR5-6-59] [SR5-6-59] [SR5-6-60] [SR5-6-61] [SR5-6-61] [SR5-6-62] [SR5-6-63] [SR5-6-63] [SR5-6-64] [SR5-6-66] [SR5-6-67] [SR5-6-67] [SR5-6-70] [SR5-6-71] [SR5-6-72] [SR5-6-72]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. The interface 'Core Services Management MUST support the following management protocols: * Transport Layer protocol [IETF RFC 4251, 2006]; * Syolog: Network Time Protocol (SIMP) Version 3 [IETF RFC 3410 – 3418, 2002]; * Syolog: Network Time Protocol (SIMP) Version 3 [IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol [HTTP) v1.1 Web interface (IETF RFC 7230, 2014] [IETF RFC 7231, 2014]; Hyper-Text Transport Protocol [HTTP) v2.1 Web interface (IETR RFC 7540, 2013] * Network Time Protocol (RPC) * Intelligent Platform Management' MUST support the following management protocol: * Remote Procedure Call (RPC). * Keyboad, video and mouse (IVM) over Ethernet; * Command Line interface (LU) via Secure Shell (SSH) WG JF, NFL_LOW MUST Support an operation 'ReceiveManagementContent' that receives external management traffic for further processing. The operation 'ReceiveManagementContent' MUST support thanogent Layer Security (TLS, [IETF RFC 4246, 2018)]. The operation 'ReceiveManagementContent' MUST support the invocation of the operations' Verify' (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface 'Dynbic Services' (SIAS-6-239)] provided by WG, PKCS (6.6.2.1). The operation 'ReceiveManagementContent' MUST support the invocation of the operation' Yerly' (6.6.2.2.3) and 'Decrypt' (6.6.2.2.5) at the interface 'Dynbic Services' (SIAS-6-239)] provided by WG, PKCS (6.6.2.1). The operation 'ReceiveManagementContent' MUST support the invocation of the operation' ReceiveSentagementContent' MUST support the invocation of the operation' theory of an anagement message form one of the interfaces offered by WG, MKMT ([SR5-6-232]) for		
Operation: pass HTTP(S) traffic by ensuring the following conditions:	SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-57] [SR5-6-57] [SR5-6-59] [SR5-6-59] [SR5-6-60] [SR5-6-61] [SR5-6-61] [SR5-6-62] [SR5-6-63] [SR5-6-63] [SR5-6-64] [SR5-6-66] [SR5-6-67] [SR5-6-67] [SR5-6-70] [SR5-6-71] [SR5-6-72] [SR5-6-72]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core Services Management' on top of Communications Access Services Management'. The interface 'Core Services Management' MUST support the following management protocols: * Transport Layer protocol [IETF RFC 4251, 2006]; * Syolog; * Network Time Protocol (SMPP) Version 3 [IETF RFC 3410 – 3418, 2002]; * Syolog; * Network Time Protocol; * Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; * Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; * Intelligent Platform Management' MAY support the following management protocol: * Intelligent Platform Management' MAY support the following management protocol: * Remote Procedure Call (RPC). * Keyboard, video and mouse (IVM) over Ethernet; * Command Line interface (ILTP V 1.1 Web Step Shell (SSH) WG_JF_NET_LOW MUST support an operation 'ReceiveLow' that receives (transfer-in) data from the low domain for processing by the WG. The Interface 'Core Services Management' MUST support the receives (transfer-in) data from the low domain for processing by the WG. The Interface 'Core Services Management' MUST support the receives (transfer-in) data from the low domain for processing by the WG. The Interface 'Core Services ManagementContent' MUST support the secure Shell Protocol (SSH) [IETF RFC 4246, 2018]). The operation 'ReceiveManagementContent' MUST support the Secure Shell Protocol (SSH) [IETF RFC 4246, 2018]). The operation 'ReceiveManagementContent' MUST support the invocation of the operations' Verify' (6.6.2.2.3) and 'Decryft' (6.6.2.2.5) at the interface 'Brothes' Work ManagementContent' MUST support the invocation of the operation' that accepts outgoing management message for une one of the interfaces offered by WG_MCG (SC 6.2.1). The operati		
	SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-57] [SR5-6-57] [SR5-6-59] [SR5-6-59] [SR5-6-60] [SR5-6-61] [SR5-6-62] [SR5-6-62] [SR5-6-63] [SR5-6-63] [SR5-6-64] [SR5-6-66] [SR5-6-67] [SR5-6-67] [SR5-6-70] [SR5-6-71] [SR5-6-72] [SR5-6-72]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management domain. The operation 'ForwardNetworkManagement' MUST support the following management protocols: * Transport Layer protocol (IETF RFC 4251, 2006); Simple Network Management Protocol (SMMP) Version 3 [IETF RFC 3410 – 3418, 2002); * Syalog; * Network Time Protocol; Network Management Interface (IPMI) [IPMI V2.0, 2013); * Network Management Interface (IPMI) [IPMI V2.0, 2013); * Network Time Protocol; Network Management Interface (IPMI) [IPMI V2.0, 2013); * Network Time Protocol; Network Time Protocol; * Intelligent Platform Management' MUST support the following management protocol: * Network Time Protocol; * Intelligent Platform Management' MUST support the following management protocol: * Network Time Protocol; * Intelligent Platform Management' MUST support the following management protocol: * Remote Deskudg (RP). * Network Work Support an operation ReceiveLow that receives (transfer-in) data from the low domain for processing by the WG. Med. JF. NET_UOW MUST support an operation ReceiveLow that receives (transfer-in) data from the low domain for processing by the WG. The Interface 'Core Services Management' MUST support Lansport Layer Security (TLS, [IETF RFC 8446, 2018)]. The operation ReceiveManagementContent' MUST support Tansport Layer Security (TLS, [IETF RFC 8446, 2018)]. The operation ReceiveManagementContent' MUST support tan operation ReceiveManagement Content' that accepts outgoing management tomestage to the appropriate interface ('SAG-622) provided by WG, MKCI ((ISAG-622) and 'Decrypt' (6.6.2.2.5) at the interface 'Gree Services ManagementContent' MUST support tansport Layer Security (TLS, [IETF RFC 8446, 2018)]. The operation ReceiveManagementContent' MUST support an operation 'ForwardManagement message to the appropriate interface 'Gree Services ManagementContent' MUST support tansport Layer Security (TLS, [IETF RFC 8446, 2018)]. The operation		
o WG_IFP_CA_HL_IN permits information flow.	SOW Annex-A SOW Annex-A	[SR5-6-55] [SR5-6-57] [SR5-6-57] [SR5-6-59] [SR5-6-59] [SR5-6-60] [SR5-6-61] [SR5-6-62] [SR5-6-62] [SR5-6-63] [SR5-6-63] [SR5-6-64] [SR5-6-66] [SR5-6-67] [SR5-6-67] [SR5-6-70] [SR5-6-71] [SR5-6-72] [SR5-6-72]	The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP traffic to the management and the factor is the page attemption 'ForwardNetworkManagement' MUST support more in anding as specified in [IETF RFC 7414, 2015]. WG_DEX MUST offer an interface 'Core' Services Management' MUST support the following management protocol: * Transport Layer protocol (IETF RFC 4251, 2006]; Simple Network Management Protocol (SMMP) Version 3 [IETF RFC 3410 – 3418, 2002]; * Sylog; * Network Management Interface (IPMI) [IPMI V2.0, 2013]; * Intelligent Platform Management interface (IPMI) [IPMI V2.0, 2013]; * Intelligent Platform Management' MAY support the following management protocol: * Intelligent Platform Management' MAY support the following management protocol: * Remote Desktop (RDP). The interface 'Core Services Management' MAY support the following management protocol: * Remote Desktop (RDP). * Remote Desktop (RDP). * Remote Desktop (RDP). * Remote Forcedure Call (RPC) + * Skyboar, video and mouse (IVM) over Ethernet; * Command Line interface (CU) via Secure Shell (SSH) WG_JF_NET_LOW MUST support an operation 'ReceiveManagementContent' that receives external management traffic for further processing. The operation 'ReceiveManagementContent' MUST support Layer Secure's Net Protocol (SSH) [IETF RFC 8446, 2018]). The operation 'ReceiveManagementContent' MUST support the invocation of the operation's (Sci.2.1.2) and 'berrypt' (6.6.2.2.5) at the interface 'URS - 523) for video WUST support an operation 'ForwardManagementContent' that accepts outgoing management trafface for earlier MuST support the invocation of the operation's Core Services Management tometer' MUST support the invocation of the operation's Core Services Management of the Interface 'URS + 523) for video WUST Support the invocation of the operation's Core Services Management Content' MUST support an operation 'ForwardManagement content' MUST support an operat		

200 Auto, M. 10.01 Name and service in Constraints (CPU 2014) and the serv					
Sector 2000	SOW Annex-A	[SRS-6-75]			
S2 AMUL S1 - All Control (S1) (S1) (S1) (S1) (S1) (S1) (S1) (S1)					
Note PADD (P)					
Image: Margin Margin Strategy and					
Bit Rooma Bit Str. 10	SOW Annex-A	[SRS-6-76]	For every action taken, the operation 'Enforce HL Communications IFCPE' SHALL invoke the operation 'Log' 6.7.7.1.1) at the interface 'Event		
Number of the section of the	SOW/ Appey-A	[SRS-6-77]			
050 Mode 064-120 Number 2017 Mode 2019 100 Mode 2019 Mode			the interface 'Event Management' (6.7.7.1) and log the outcome O_WG_IFCPE (6.6.2.4).		
Sciences Biole Handle MCLESS 10001 detter sprace free set and sprace					
Open Name Profession Professi	SOW Appay A	[\$P\$-6-9]			
Image: Second					
Star Max Star Star Star Star Star Star Star Star	SOW Annex-A	[SRS-6-80]			
Image:	SOW Annex-A	[SRS-6-81]	The operation 'Enforce HL SOA Platform IFCPE' SHALL enforce the policy WG_IFP_SOA_HL on the following information flow:		
Image:			Destination: SOA Platform Services HL Interface >ForwardWebContentHL;		
colse of Photogram is a proceeding of Web grant is specific alloy and from Use parts (PL, CH, CH, CH, CH, CH, CH, CH, CH, CH, CH					
Subject of the scatter of processing by QCUP VIC_P SDL (P SDL (
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Service High Loop 61.3.2, The comparison Deriver with LAM CP BALL table a tight: Service High Loop 61.3.2, The comparison Deriver with LAM CP BALL table at tight comparison Deriver with LAM CP BALL table at tight comparison Deriver with LAM CP BALL table at tight comparison Deriver with LAM CP BALL table at tight comparison Deriver with LAM CP BALL table at the comparison Deriver with LAM CP BALL table at the comparison Deriver with LAM CP BALL table at the comparison Deriver with LAM CP BALL table at the comparison Deriver with LAM CP BALL table at the comparison Deriver with LAM CP BALL table at the comparison Deriver with LAM CP BALL table at the comparison Deriver with LAM CP BALL table at the comparison Deriver With LAM CP BALL table at the comparison Deriver With LAM CP BALL table at the comparison Deriver With LAM CP BALL table at the comparison Deriver With LAM CP BALL table at the comparison Deriver With LAM CP BALL table at the comparison Deriver With LAM CP BALL table at the comparison Deriver With LAM CP BALL table at the comparison Deriver With LAM CP BALL table at the comparison Deriver With LAM CP BALL table at the comparison Deriver With LAM CP BALL table at the comparison Deriver With LAM CP BALL table at the comparison Deriver With LAM CP BALL table. The comparison Deriver With LAM CP BALL table at the comparison Deriver With LAM CP BALL table at the comparison Deriver With LAM CP BALL table at the comparison Deriver With LAM CP BALL table at the comparison Deriver With LAM CP BALL table at the comparison Deriver With LAM CP BALL table at the comparison DERIVER AT the comparison DERIVER AT table at the comparison DERIVER AT table at the comparison DERIVER AT tables at the					
· The UT manage that have presented: · Image that have presented: · Image that have presented if the UT manage that have presented if the UT DD M. · Image that have presented if the UT DD M. USD More 30 DEVEL Comparing a comparing the UT DD M. · Image that have presented if the UT DD M.	SOW Annex-A	[SRS-6-82]			
S05 Alamas, Bit-S41 Mice, Bit-S04,			The HTTP message that is being processed;		
S00 Amma Mex444 Nex444 Nex4444 Nex44444 Nex44444 <td< td=""><td>SOW Annex-A</td><td>[SRS-6-83]</td><td></td><td></td><td></td></td<>	SOW Annex-A	[SRS-6-83]			
DSA MARA, MIR-PRIJ PMUE_IPAGA, Makes not point horizon to be a parky values or, the VS PAUL inside the speeds Tag (# 27.11) DSA MARA, MIR-PRIJ PMUE_IPAGA, Makes not point horizon to be larky values or, the VS PAUL inside the speeds Tag (# 27.11) DSA MARA, MIR-PRIJ PMUE_IPAGA, Makes not point horizon to be larky values or, the VIPA (BML-INI) DSA MARA, MIR-PRIJ PMUE Info or Memory and the Page Tag (M)			For every action taken, the operation 'Enforce HL SOA Platform IFCPE' SHALL invoke the operation 'Log' (6.7.7.1.1) at the interface 'Event		
SQL Amode, Bill-4-Bill The dia Soluti, equiry that is instruction from the first of the solution for the solution for the solution for the first of the solution for the first of the solution for the first of the solution for the solution for the solution for the first of the solution for the solution for the first of the sol	SOW Annex-A	[SRS-6-85]	If WG_IFP_SOA_HL does not permit the release of information due to a policy violation, the WG SHALL invoke the operation 'Log' (6.7.7.1.)	<u> </u>	
Displant Processing Processing Processing Processing Displant Processing Processing Processing Processing Displant Processing Processing Processing Processing Displant Processing Processing Processing Processing Processing Displant Processing <	SOW Annex-A	[SRS-6-86]			
Start Names Wester (UTC) Startes: Use wight NUS response supports "Extra cut Communitative UTC" that entering the entry is the cut communitative UTC in the entry is the intering the entry is the cut communitative UTC in the entry is the intering the entry is the cut communitative UTC in the entry is the intering th	SOW Annex-A	[SRS-6-87]			
S00 Amerski S04-481 Httessenion Tufore to LiCommunication FLOT SHULD enforce the poly With TU, LL, LL, Work the following information Hour - show control and the full interface is a check stream the entity. Image: Control and Control	SOW Annex-A	[SRS-6-88]	The interface 'IFCPE Services Low to High' MUST support an operation 'Enforce LH Communications IFCPE' that enforces the policy		
Image:	SOW Annex-A	[SRS-6-89]			
al: ************************************					
SNA MARS			Information: HTTP(S) traffic;		
SDM Annex BPS 6-91 The U.S. Market is a physical interaction (Interface VML) # MOMT, R MUST offer a lagical indexeck interface VML) # MOMT on the advance of the advance information flow: Image: Interface VML PML PML PML PML PML PML PML PML PML P					
Under Control Under Control Under Control Under Control SDM Answark MS-64-80 The operation frame (and constructions) ECPE SolULI control for the paper Work, JP CA, LH, OUT on the following information flow: - Sum Answark - Su	SOW Appor A	[0.6-92]			
Set 5:40 Interface - 16 section Ministry Constructions Image: Set 5:40 Image: Set 5:40 SOW Annex A Set 5:40 Image: Set 5:40 Image: Set 5:40 Image: Set 5:40 SOW Annex A Set 5:40 Image: Set 5:40 Image: Set 5:40 Image: Set 5:40 SOW Annex A Set 5:40 Image: Set 5:40 Image: Set 5:40 Image: Set 5:40 SOW Annex A Set 5:40 Image: Set 5:40 Image: Set 5:40 Image: Set 5:40 SOW Annex A Set 5:40 Image: Set 5:			WG_IF_NET_HIGH.		
uk information: HTTRS) strifts: be enuring the following conditions: information: HTTRS) and the enuring the enuring the following conditions: information: HTTRS) and the enuring the enuring the following conditions: information: HTTRS) and the enuring the en	SOW Annex-A	[SRS-6-90]			
SNP Amera SNP Amera <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
SW Annex A ISS-6-91 IWC, IPF, CA, LH, Nor WG, JPF, CA, LH, OUT do not permit information flow, the WG SMALL execute the actions specified in IMC SGW Annex A ISS-6-91 IWC, IPF, CA, LH, Nor WG, JPF, CA, LH, OUT do not permit information flow, the WG SMALL invoke the operation Tag' (6.7.7.1.1) at the interface "term IMC SGW Annex A ISS-6-91 IWC, IPF, CA, LH, Wor WG, SF, Schl, and WG SS-6-301 and Ige throation. IMC I			Operation: pass HTTP(S) traffic by ensuring the following conditions:		
Image: Proc Area Image: Proc Area<			o WG_IFP_CA_LH_OUT permits information flow.		
S004 Annex, S054-620 For every action Later, the operation Tellor II Communications TECP: SNLL invoke the operation Log (6,77,1.1) at the interface "Event Management" (S054-6421) and	SOW Annex-A	[SRS-6-91]			
S004 Annex A [S05 - 631] FW, IJP C, AL, Ji des not permit the release of information due to a policy violation, the WS SMLL mode the operation Tag (6.7.7.1.1) at the interface Texet Management (SSS - 421), and Bis education - QW, IJP CA, LH S004 Annex A [S05 - 643] The WS SMLL ensure that no IRIG information flows exist to dirumment the enforcement of WG, IJP CA, LH Image: Comparison of WS (JP CA), ANNEX (SSS - 421), and WS (JP CA), IMA (ST (SSS - 421), IMA (ST	SOW Annex-A	[SRS-6-92]	For every action taken, the operation 'Enforce LH Communications IFCPE' SHALL invoke the operation 'Log' (6.7.7.1.1) at the interface 'Event		
S0W Amerek (1956-64) The WC SHALL ensure that no link information flows exist to cramment the enforcement of WG, IPF CA. II. Image: Comparison of Compariso	SOW Annex-A	[SRS-6-93]	If WG_IFP_CA_LH does not permit the release of information due to a policy violation, the WG SHALL invoke the operation 'Log' (6.7.7.1.1) at		
S0W Annex A [856-69] The interface VICK services Low to High MUST support an operation "Enforce LH SOA Platform IFCPE" that enforces the policy Image: Comparison of	SOW Annex-A	[SRS-6-94]			
S0W Annex A [85-69] Proor to enforcing UP, JSOL LU, WG, JPC STALL completely reassemble all churks of an HTP message body that was received with duked enforce HI SOA Platform IPCPC STALL enforce the policy WG, JPS 20A, LH on the following information flow: S0W Annex A S56 * 77 The operation "Enforce HI SOA Platform IPCPC STALL enforce the policy WG, JPS 20A, LH on the following information flow: 	SOW Annex-A	[SRS-6-95]	The interface 'IFCPE Services Low to High' MUST support an operation 'Enforce LH SOA Platform IFCPE' that enforces the policy		
SQW Annee-A [MS-F-97] The operation inforce LH SQA Platform IFCPE 'SHALL endors the policy WG_IPE_SQA_LH on the following information flow: - Destination: SQA Platform Services LH Interface-ServerWebContentLH; - Information: HTTP Messages is no source to destination ensuring the following conditions: other HTTP Message is the services LH Interface-ServerWebContentLH; - Information: HTTP Messages is no source to destination ensuring the following conditions: other HTTP Message is the services LH Interface-ServerWebContentLH; - Information: HTTP Messages is no source to destination ensuring the following conditions: other HTTP Message is the services LH (MS G-FEE, MG, IPE_SOA, LH permits the import of the HTTP Message to the high domain. on case of an HTTP response message, push message only if I was preceded by an HTTP request message that was passed as part of the enforcement of WG, IPE SOA, LH (ISS-6-51]). SOW Annee-A [ISS-694] The operation Enforce LH SOA Platform IFCPE 'MUST support the invocation of the operation. Enforce LH SOA CPE' shall be encoded by an HTTP request message that is being processed; "The policy WG, IPE 'LM (ISS-6-51]). SOW Annee-A [ISS-694] The operation Enforce LH SOA Platform IFCPE 'MUST Support the invocation of the operation. Enforce LH SOA CPE' Shall. Leaves the mediation of data between the high domain and the low domain. SOW Annee-A [ISS-7100] Mell, PL MMIT SHALL support an operation ReceiveManagement' that receives data from the management domain for processing by WG. CPE 'LM CPE' MUST operation Enforce LH Communications IFCPE' MUST offer an interface 'ICPE Services Low to High' MG. SOW Annee A [ISS-7100] Mell, PL MUST Support an operation 'Enforce LH Communications IFCPE' MUST offer A interface - Proceeding LH (ISS) Services LH	SOW Annex-A	[SRS-6-96]			
Source: SOA Platform Services UI Interface - ReceiveMet/ContentUL; • Destination: SOA Platform Services UI Interface - ReceiveMet/ContentUL; • Information: TTP Messages; • Operation: Soa Platform Services UI Interface - Services UMet/ContentUL; • Information: TTP Messages; • Operation: Soa Platform Services UI Interface - Services UMet/ContentUL; • Information: TTP Messages; • Operation: Ensystem TP Messages; from source to destination ensuing the following conditions: • Operation: Ensystem Services UI Interface - Services UMet/ContentUL; • Operation: Ensystem TP Messages; • Operation: Ensystem Services UI Interface - Services UMet/ContentUL; • Operation: Ensystem Services UN Interface - Services Services UN Ensystem Services UN Ensy	SOW Annex-A	[SRS-6-97]			
set outpoint - information-infTP Messages from ource to distination ensuring the following conditions: - operator:	South Annex A	[Source: SOA Platform Services LH Interface->ReceiveWebContentLH;		
a b					
content inspection policy WG, CPL (HJ (SRS-6151)). objects of processing by WG, CPF, WG, CPF, VG, LPF SOA, LP permits the import of the HTP Message to the high domain. o of nase of an HTP response message, pass message only if it was preceded by an HTP request message that was passed as part of the enforcement of WG, IPF, SOA, LH (SRS-6481). Sectors on the HTP response message only if it was preceded by an HTP request message that was passed as part of the enforce curves of the operation "Enforce LH SOA Pattern IFCPE MUST support the invocation of the operation "Enforce LH SOA CIPE" shall take as input: - • The HTTP message that is being processed; • The HTTP message that is being processed; - • The HTTP message that is being processed; • The HTTP message that exchange capability MG_DEX that facilitates the mediation of data between the high domain and the low domain. - SOW Annex-A [SRS-7:40] MG_IF_MGMT SHALL support an operation "ReceiveManagement" that receives data from the management domain for processing by the domain. - SOW Annex-A [SRS-7:40] MG_IF_MGMT SHALL support an operation "Encive LH Communications IFCPE" that enforces the policy MG_OF - SOW Annex-A [SRS-7:40] MG_IF_MCL_ALL OW to MG_IF_NET_HIGH, MG_IFCPE MUST offer an interface 'IFCPE Services tow to High' that accept information from MG_IF_NCL_EVE MUST offer an interface 'IFCPE Services use to High' that accept information from MG_IF_NCL_EVE MUST offer an interface 'IFCPE Services use to High' that accept information from KG_IFPC SAULD enforce the policy MG_IFP_CA_LH_IN on the foll					
olin case of an HTTP response message, pass message only if it was preceded by an HTTP request message that was passed as part of the enforcement of Wu JPP SOAL HL (BSK-6-BBL). Image: Comparison Source LM SOA Platform IFCPE' MUST support the invocation of the operation 'Enforce LH SOA CIPE' at the interface 'CIPE' Services Low to high (ES.3.2.1). The operation 'Enforce LH SOA CIPE' SHALL take as input:			content inspection policy WG_CIP_LH ([SRS-6-151]).		
SOW AnnexA [S8-6-98] The operation Enforce LH SOA Platform IFCPC MUST support the invocation of the operation 'Enforce LH SOA CIPE' at the interface 'CIPE' SOW AnnexA [S8-6-98] The operation Enforce LH SOA Platform IFCPC MUST support the invocation of the operation 'Enforce LH SOA CIPE' SALL take as input: The Policy WG CP, LH. The MG MUST provide a data exchange capability MG_DEX that facilitates the mediation of data between the high domain and the low domain. SOW AnnexA [S8-7-10] MG_IF_MGMT SHALL support an operation. 'ReceiveManagement' that receives data form the management domain for processing by the MG.			o In case of an HTTP response message, pass message only if it was preceded by an HTTP request message that was passed as part of the		
Services tow to High' (6.5.3.2). The operation 'Enforce LH'SOA CIPE' SHALL take as input: • The policy MG_CP_LH. SOW Annex-A [SR5-9] If WG: IP'SOA. LH does not permit the release of information, the WG SHALL execute the actions specified in WG. IP'SOA. LH. • • • • • • • • • • • • • • • • • • •	SOW Annex-A	[SRS-6-98]			
source: • The policy WG, CiP, LH. Impose the release of information, the WG SHALL execute the actions specified in WG. IFP. SOA. LH. Impose the release of information, the WG SHALL execute the actions specified in WG. IFP. SOA. LH. SOW Annex-A. [S85-7-10] The MG MUST provide a data exchange capability MG_DEX that facilitates the mediation of data between the high domain and the low domain. Impose the release of information for MG_IF_NET_HIGH, MG_JFCPE MUST offer an interface 'IFCPE Services Low to High' SOW Annex-A. [S85-7-10] For the flow of information form MG_IF_NET_LOW to MG_IF_NET_HIGH, MG_JFCPE MUST offer an interface 'IFCPE Services Low to High' Impose the release of information for further processing. SOW Annex-A. [S85-7-101] The infractse 'IFCPE Services Low to High' MUST support an operation 'Enforce LH Communications IFCPE' that enforces the policy MG_IFP_CA_LH_IN on the following information flow: Impose the information form former LH Communications IFCPE' SHOULD enforce the policy MG_IFP_CA_LH_IN on the following information flow: Impose the information Support Services LH Interface - Secvice EmailLH; Information: Source: Communications IFCPE' SHOULD enforce the policy MG_IFP_CA_LH_OUT on the following information flow: Impose the information flow: SOW Annex-A. [S85-7-103] The operation 'Enforce LH Communications IFCPE' SHOULD enforce the policy MG_IFP_CA_LH_OUT on the following information flow: Impose the			Services Low to High' (6.5.3.2). The operation 'Enforce LH SOA CIPE' SHALL take as input:		
SOW Annex-A [SR5-7-10] The MG MUST provide a data exchange capability MG_DEX that facilitates the mediation of data between the high domain and the low Image: Content of the Content of			The policy WG_CIP_LH.		
domain.				 	
MG. MG. MG. SOW Annex-A [SR5-7-100] For the flow of information from MG_IF_NET_LOW to MG_IF_NET_HIGH, MG_IFCPE MUST offer an interface 'IFCPE Services Low to High' SOW Annex-A [SR5-7-101] The interface 'IFCPE Services Low to High' MUST support an operation 'Enforce LH Communications IFCPE' SHOULD enforce the policy MG_IFP_CA_LH. SOW Annex-A [SR5-7-102] The operation 'Enforce LH Communications IFCPE' SHOULD enforce the policy MG_IFP_CA_LH_IN on the following information flow: SOW Annex-A [SR5-7-102] The operation 'Enforce LH Communications IFCPE' SHOULD enforce the policy MG_IFP_CA_LH_IN on the following information flow: SOW Annex-A [SR5-7-102] The operation 'Enforce LH Communications IFCPE' SHOULD enforce the policy MG_IFP_CA_LH_IN on the following information flow: SOW Annex-A [SR5-7-103] The operation: Support Services LH Interface -> ReceiveEmailLH; • Information: SMTP(S) traffic by ensuring the following conditions: o MG_IFP_CA_LH_IN permits information flow. SOW Annex-A [SR5-7-103] The operation 'Enforce LH Communications IFCPE' SHOULD enforce the policy MG_IFP_CA_LH_OUT on the following information flow: SOW Annex-A [SR5-7-103] The operation 'Enforce LH Communications IFCPE' SHOULD enforce the policy MG_IFP_CA_LH_OUT on the following information flow: SOW Annex-A [SR5-7-103] The operation 'Enforce LH Communications IFCPE'			domain.		
that accepts information for further processing. Image: that accepts information for further processing. SOW Annex-A [SR5-7-101] The interface 'IFCPE Services Low to High' MUST support an operation 'Enforce LH Communications IFCPE' that enforces the policy MG_IFP_CA_LH. Image: Communication access Services LH interface -> Receivel ternalNetworkLH; Image: Communication access Services LH interface -> Receivel ternalNetworkLH; Image: Communication access Services LH interface -> Receivel ternalNetworkLH; Image: Communication access Services LH interface -> Receivel ternalNetworkLH; Image: Communication access Services LH interface -> Receivel ternalNetworkLH; Image: Communication access Support Services LH interface -> Receivel ternalNetworkLH; Image: Communication access Support Services LH interface -> Receivel ternalNetworkLH; Image: Communication access Support Services LH interface -> Receivel ternalNetworkLH; Image: Communication access Support Services LH interface -> Receivel ternalNetworkLH; Image: Communication access Support Services LH interface -> Receivel ternalNetworkLH; Image: Communication access Support Services LH interface -> ForwardEmailLH; Image: Communication access Services LH interface -> ForwardEmailLH;			MG.		
SOW Annex-A [SR5-7-102] The interface 'IFCPE Services Low to High' MUST support an operation 'Enforce LH Communications IFCPE' that enforces the policy MG IPE_CA_LH. SOW Annex-A [SR5-7-102] The operation 'Enforce LH Communications IFCPE' SHOULD enforce the policy MG_IFP_CA_LH_IN on the following information flow: • Source: Communications Access Services LH Interface -> ReceiveIntermalNetworkLH; • Destination: Business Support Services LH Interface -> ReceiveEmailLH; • Information: SMTP(S) traffic; • Operation: pass SMTP(S) traffic; • Operation: pass SMTP(S) traffic to ensuring the following conditions: o MG_IFP_CA_LH_N permits information flow. SOW Annex-A [SR5-7-103] The operation 'Enforce LH Communications IFCPE' SHOULD enforce the policy MG_IFP_CA_LH_OUT on the following information flow: • Source: Communications Access Services LH Interface -> ReceiveIntermalNetWorkLH; • Operation: pass SMTP(S) traffic to ensuring the following conditions: • Operation: Support Services LH Interface -> ReceiveIntermalNetWorkLH; • Operation: Support Services LH Interface -> ForwardEmailLH; • Operation: Support Services L	SOW Annex-A	[SRS-7-100]			
SOW Annex-A [SR5-7-102] The operation 'Enforce LH Communications IFCPE' SHOULD enforce the policy MG_IFP_CA_LH_IN on the following information flow: Source: Communications Access Services LH Interface -> ReceiveIntermalletworkLH; Destination: SimSUP(S) traffic by ensuring the following conditions: of MG_IFP_CA_LH_IN permits information flow. SOUW Annex-A [SR5-7-103] The operation 'Envices LH Communications IFCPE' SHOULD enforce the policy MG_IFP_CA_LH_OUT on the following information flow:	SOW Annex-A	[SRS-7-101]	The interface 'IFCPE Services Low to High' MUST support an operation 'Enforce LH Communications IFCPE' that enforces the policy		
• Destination: Business Support Services LH Interface -> ReceiveEmailLH; • Information: SMTP[5] traffic	SOW Annex-A	[SRS-7-102]	The operation 'Enforce LH Communications IFCPE' SHOULD enforce the policy MG_IFP_CA_LH_IN on the following information flow:		
Information: SMTP(5) traffic; • Information (SMTP(5) traffic; • Operation: pass SMTP(5) traffic; • Operation: pass SMTP(
SOW Annex-A [SR5-7-103] The operation 'Enforce LH Communications IFCPE' SHOULD enforce the policy MG_IFP_CA_LH_OUT on the following information flow: Source: Business Support Services LH Interface -> ForwardEmailLH; Destination: Communications Access Services LH Interface -> ForwardEmailLH; information: SMTP(S) traffic; Operation: pass SMTP(S) traffic by ensuring the following conditions:			Information: SMTP(S) traffic;		
source: Business Support Services LH Interface -> ForwardEmailLH; • Destination: Communications Access Services LH Interface -> ForwardEmailLH; • Information: SMTP(S) traffic y: • Destination: Communications Access Services LH Interface -> ForwardEmailLH; • Information: SMTP(S) traffic y: • Operation: pass SMTP(S) traffic y: </td <td></td> <td></td> <td></td> <td></td> <td></td>					
source: Business Support Services LH Interface -> ForwardEmailLH; • Destination: Communications Access Services LH Interface -> ForwardEmailLH; • Information: SMTP(S) traffic y: • Destination: Communications Access Services LH Interface -> ForwardEmailLH; • Information: SMTP(S) traffic y: • Operation: pass SMTP(S) traffic y: </td <td>SOW Annex-A</td> <td>[SRS-7-103]</td> <td>The operation 'Enforce LH Communications IFCPE' SHOULD enforce the policy MG_IFP_CA_LH_OUT on the following information flow:</td> <td></td> <td></td>	SOW Annex-A	[SRS-7-103]	The operation 'Enforce LH Communications IFCPE' SHOULD enforce the policy MG_IFP_CA_LH_OUT on the following information flow:		
Information: SMTP(S) traffic; • Operation: pass SMTP(S) traffic; • Operation: pass SMTP(S) traffic; • Operation: pass SMTP(S) traffic; SOW Annex-A [SR5-7:104] For every action taken, the operation 'Enforce LH Communications IFCPE' SHALL invoke the operation 'Log' (7.7.7.1.1) at the interface 'Event Management' (ISR5-7:392)] and log the action. SOW Annex-A [SR5-7:105] If MG_IFP_CA_LH does not permit the release of information due to a policy violation, the MG SHALL invoke the operation 'Log' (7.7.7.1.1) at the interface 'Event the interface' Event Management' (ISR5-7:392)] and log the outcome O_MG_IFCPE (ISR5-7:91).			Source: Business Support Services LH Interface -> ForwardEmailLH;		
o MG_IFP_CA_LH_OUT permits information flow. Image: Comparison of the comp			Information: SMTP(S) traffic;		
SOW Annex-A [SR5-7-104] For every action taken, the operation 'Enforce LH Communications IFCPE' SHALL invoke the operation 'Log' (7.7.7.1.1) at the interface 'Event Management' ([SR5-7-392]) and log the action. SOW Annex-A [SR5-7-105] If MG_IFP_CA_LH does not permit the release of information due to a policy violation, the MG SHALL invoke the operation 'Log' (7.7.7.1.1) at the interface 'Event Management' ([SR5-7-392]) and log the outcome O_MG_IFCPE ([SR5-7-91]).					
Management' (ISR5-7:392)] and log the action. Management' (ISR5-7:392)] and log the action. SOW Annex-A ISR5-7:105 If MG_IFP_CA_LH does not permit the release of information due to a policy violation, the MG SHALL invoke the operation 'Log' (7.7.7.1.1) at the interface' Venet Management' (ISR5-7:392)] and log the outcome O_MG_IFCPE (ISR5-7:91). Image: Comparison of the interface' Venet Management' (ISR5-7:392)] and log the outcome O_MG_IFCPE (ISR5-7:91).	SOW Anney-	[SRS-7-1041			
the interface 'Event Management' ([SRS-7-392]) and log the outcome O_MG_IFCPE ([SRS-7-91]).			Management' ([SRS-7-392]) and log the action.		
SOW Annex-A [ISR5-7-106] The MG SHALL ensure that no illicit information flows exist to circumvent the enforcement of MG_IFP_CA_H.			the interface 'Event Management' ([SRS-7-392]) and log the outcome O_MG_IFCPE ([SRS-7-91]).	 	
	SOW Annex-A	[SRS-7-106]	The MG SHALL ensure that no illicit information flows exist to circumvent the enforcement of MG_IFP_CA_LH.		

SOW Annex-A	[SRS-7-107]	The Business Support Services IFCPE SHALL enforce the information flow control policy to mediate the flow of email between the Low		
SOW Annex-A	[SRS-7-108]	Domain and the High Domain. The Business Support Services IFCPE SHALL maintain a separate Business Support Services IFCP for the flow of information from the Low		
		Domain to the High Domain (IEG-C_IFP_BS_EMAIL_LH).		
SOW Annex-A	[SRS-7-109]	The Business Support Services IFCP from the Low Domain to the High Domain (IEG-C_IFP_BS_EMAIL_LH) shall identify a Business Support Service CIP (IEG-C_CIP_BS_EMAIL_LH) (see section 7.2.3).		
SOW Annex-A	[SRS-7-11]	MG_IF_MGMT SHALL support an operation 'ForwardManagement' that forwards data that has been processed by the MG to the		
SOW Annex-A	[SPS-7-110]	management domain. The Enforce LH Business Support IFCPE operation SHALL call the Enforce LH Business Support CIP operation to determine if the email		
		message from the Low Domain is compliant with the CIP (see section 7.2.3).		
SOW Annex-A	[SRS-7-111]	For incoming and outgoing management traffic at MG_F_MGMT, MG_FCPE MUST offer an interface 'IFCPE Services Management' that accepts information for further processing.		
SOW Annex-A	[SRS-7-112]	The interface 'IFCPE Services Management' MUST support an operation 'Enforce Management Communications IFCPE' that enforces the		
SOW Annex-A	[CDC 7 112]	policy MG_IFP_MGMT. The operation 'Enforce Management Communications IFCPE' SHALL enforce the policy MG_IFP_MGMT_IN on the following information		
SOW Annex-A	[3K3=7=115]	flow:		
		Source: Communications Access Services Management Interface -> ReceiveNetworkManagement		
		Destination: Core Services Management Interface -> ReceiveManagementContent Information: Management traffic.		
		Operation: pass management traffic by ensuring the following conditions:		
		o Management traffic is filtered based on source IP addresses and ports, destination IP addresses, ports and protocol fields; o MG_IFP_MGMT_IN permits information flow.		
SOW Annex-A	[SRS-7-114]	The operation 'Enforce Management Communications IFCPE' SHALL enforce the policy MG_IFP_MGMT_OUT on the following information		
		flow: • Source: Core Services Management Interface -> ForwardManagementContent		
		Destination: Communications Access Services Management Interface -> ForwardNetworkManagement		
		 Information: Management traffic. Operation: pass management traffic by ensuring the following conditions: 		
		 Operation: pass management traffic by ensuring the following conditions. o Management traffic is filtered based on source IP addresses and ports, destination IP addresses, ports and protocol fields; 		
	(000 2 445)	o MG_IFP_MGMT_OUT permits information flow.		
SOW Annex-A	[SRS-7-115]	If MG_IFP_MGMT_IN or MG_IFP_MGMT_OUT do not permit information flow, the MG SHALL execute the action specified in MG_IFP_MGMT.		
SOW Annex-A	[SRS-7-116]	For every action taken, the operation 'Enforce Management Communications IFCPE' SHALL invoke the operation 'Log' (7.7.1.1) at the		
SOW Annex-A	[SRS-7-117]	interface 'Event Management' ([SRS-7-392]) and log the action. If MG_IFP_MGMT does not permit the release of information due to a policy violation, the MG SHALL invoke the operation 'Log' 7.7.7.1.1) at		
		the interface 'Event Management' ([SRS-7-392]) and log the outcome O_MG_IFCPE ([SRS-7-91]).		
SOW Annex-A SOW Annex-A		The MG SHALL ensure that no illicit information flows exist to circumvent the enforcement of MG_IFP_MGMT. MG_IFP SHALL be configurable.	-	
SOW Annex-A SOW Annex-A		MG_IFP SHALL be configurable. MG_DEX MUST offer a IPv4 and IPv6, [IETF RFC 791, 1981], and [IETF RFC 8200, 2017] over Ethernet interface 'Communications Access	-	
		Services HL' on top of MG_IF_NET_HIGH and MG_IF_NET_LOW.		
SOW Annex-A SOW Annex-A		MG_IFP SHALL specify the actions ACTIONS that need to be executed by MG_IFCPE. For each action in ACTIONS it SHALL be possible to:	<u> </u>	
		• Enable or disable the action.		
		 Instruct MG_IFCPE to ignore the outcome of the execution of the action. If the outcome O_MG_IFCPE of the execution of the action is negative (e.g. verification or validation fails, or a policy violation was 		
		determined): instruct MG_IFCPE to continue the enforcement of MG_IFP, or to stop.		
SOW Annex-A	[SRS-7-122]	It SHALL be possible to enable or disable the enforcement of each of the following sub-policies: • MG_IFP_CA_LH_IN;		
		• MG_IFP_CA_LH_OUT;		
		• MG_IFP_CA_HL_IN;		
		• MG_IFP_CA_HL_OUT;		
	1			
		• Mg_IFP_MGMT_IN; • Mg_IFP_MGMT_OUT;		
		• MG_IFP_MGMT_IN;		
SOW Annex-A		• MG_IFP_MGMT_IN; • MG_IFP_MGMT_OUT; • MG_IFP_BS_LH; • MG_IFP_BS_HL. MG_IFPSHALL specify the level of granularity of the outcome O_MG_IFCPE.		
SOW Annex-A SOW Annex-A		MG_IFP_MGMT_IN; MG_IFP_MGMT_OUT; MG_IFP_BS_Lti; MG_IFP_BS_Lti; MG_IFP_BS_HL. MG_IFP_SHALL specify the level of granularity of the outcome O_MG_IFCPE. If SHALL be possible for MG_IFCPE to distinguish within O_MG_IFCPE:		
		MG_IFP_MGMT_IN; MG_IFP_MGMT_OUT; MG_IFP_BS_LH; MG_IFP_BS_LH; MG_IFP_BS_HL. MG_IFP_SHALL specify the level of granularity of the outcome O_MG_IFCPE. It SHALL be possible for MG_IFCPE to distinguish within O_MG_IFCPE: The sub-policy (ISR5-7:122)) that was enforced when a policy violation was determined; Identification of the action that led to the policy violation;		
SOW Annex-A	[SRS-7-124]	 MG_IFP_MGMT_IN; MG_IFP_MGMT_OUT; MG_IFP_BS_LH; MG_IFP_BS_LH; MG_IFP_SHALL specify the level of granularity of the outcome O_MG_IFCPE. Its SHALL be possible for MG_IFCPE to distinguish within O_MG_IFCPE: The sub-policy (ISR5-1322) that was enforced when a policy violation was determined; Identification of the action that led to the policy violation; Reason for policy violation. 		
	[SRS-7-124]	MG_IFP_MGMT_IN; MG_IFP_MGMT_OUT; MG_IFP_BS_LH; MG_IFP_BS_LH; MG_IFP_BS_HL. MG_IFP_SHALL specify the level of granularity of the outcome O_MG_IFCPE. It SHALL be possible for MG_IFCPE to distinguish within O_MG_IFCPE: The sub-policy (ISR5-7:122)) that was enforced when a policy violation was determined; Identification of the action that led to the policy violation;		
SOW Annex-A	[SRS-7-124]	 MG_IFP_MGMT_IN; MG_IFP_MGMT_OUT; MG_IFP_BS_LH; MG_IFP_SS_LH; MG_IFP_SS_LH; MG_IFP_SS_EX_EX_EX_EX_EX_EX_EX_EX_EX_EX_EX_EX_EX_		
SOW Annex-A	[SRS-7-124]	 MG_IFP_MGMT_IN; MG_IFP_MGMT_OUT; MG_IFP_BS_LH; MG_IFP_BS_LH; MG_IFP_BS_LH; MG_IFP_SS_HL. MG_IFP_SS_HL. MG_IFP_SS_HL. MG_IFP_SS_HL. It SHALL be possible for MG_IFCPE to distinguish within O_MG_IFCPE: It sub-policy (ISR5-1122) that was enforced when a policy violation was determined; Identification of the action that led to the policy violation; Reason for policy violation. The policies MG_IFP_CA_HL, MG_IFP_CA_LH and MG_IFP_MGMT SHALL specify: That an information flow (as described in 7.5.1.2.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE 		
SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125]	 MG_IFP_MGMT_IN; MG_IFP_MGMT_OUT; MG_IFP_BS_LH; MG_IFP_SS_LH: MG_IFP_SS_HL. MG_IFP_SS_HL. MG_IFP_STALL specify the level of granularity of the outcome O_MG_IFCPE. Its SHALL be possible for MG_IFCPE to distinguish within O_MG_IFCPE: The sub-policy (ISR5-1322)) that was enforced when a policy violation was determined; Identification of the action that led to the policy violation; Reason for policy violation. The policies MG_IFP_CA_HI, MG_IFP_CA_LH and MG_IFP_MGMT SHALL specify: That an information flow (as described in 7.5.1.2.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: o Silently drop traffic; o Reset the TCP/IP connection. 		
SOW Annex-A	[SRS-7-124] [SRS-7-125]	 MG_IFP_MGMT_IN; MG_IFP_MGMT_OUT; MG_IFP_BS_LH; MG_IFP_BS_HL. MG_IFP_SSALL specify the level of granularity of the outcome O_MG_IFCPE. Its SHALL be possible for MG_IFCPE to distinguish within O_MG_IFCPE: The sub-policy (ISRS-7-122)) that was enforced when a policy violation was determined; Identification of the action that led to the policy violation; Reason for policy violation. The policies MG_IFP_CA_HL, MG_IFP_CA_LH and MG_IFP_MGMT SHALL specify: That an information flow (as described in 7.5.1.2.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: o Silently drop traffic; O Reset the TCP/IP connection. The policy MG_IFP_CA_HL_IN SHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' 		
SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-126]	 MG_IFP_MGMT_IN; MG_IFP_MGMT_OUT; MG_IFP_BS_LH; MG_IFP_SS_LH; MG_IFP_SS_LH; MG_IFP_SS_HL. MG_IFP_SS_LH; MG_IFP_CA_IH_IG_IFP_GA_IH_IG_IFP_MGMTSHALL specify: The policies MG_IFP_CA_IH, MG_IFP_CA_IH and MG_IFP_MGMTSHALL specify: That an information flow (as described in 7.5.1.2.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: o Silently drop traffic; o Reset the TCP/IP connection. The policy MG_IFP_CA_HL, MS HALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' SHALL secure for the information flow described in (ISR-7-86). ACTIONS_MG_CA_HL_IN SHALL include the following actions: 		
SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-126] [SRS-7-127]	 MG_IFP_MGMT_IN; MG_IFP_MGMT_OUT; MG_IFP_SS_LH; MG_IFP_SS_LH; MG_IFP_SS_LH; MG_IFP_STALL specify the level of granularity of the outcome O_MG_IFCPE. It SHALL be possible for MG_IFCPE to distinguish within O_MG_IFCPE: The sub-policy (ISR5-7.122) that was enforced when a policy violation was determined; identification of the action that led to the policy violation; Reason for policy violation. The policy MG_IFP_CA_HL, MG_IFP_CA_LH and MG_IFP_MGMT SHALL specify: That an information flow (as described in 7.5.1.2.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: osliently drop traffic; Reset the TCP/IP connection. The policy MG_IFP_CA_LIN SHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (ISR5-7.86)). ACTIONS_MG_CA_HL_IN SHALL include the following actions: Itter traffic based on the ruleset RULESET MG_IFCPE-CA_LIN. 		
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-126] [SRS-7-127] [SRS-7-128]	 MG_IFP_MGMT_IN; MG_IFP_MGMT_OUT; MG_IFP_BS_LH; MG_IFP_SS_LH; MG_IFP_SS_LH; MG_IFP_SS_LH; MG_IFP_SS_LH; MG_IFP_SS_LH; MG_IFP_STALL specify the level of granularity of the outcome O_MG_IFCPE. Its SHAL be possible for MG_IFCPE to distinguish within O_MG_IFCPE: The sub-policy (ISR5-7122)) that was enforced when a policy violation was determined; Identification of the action that led to the policy violation; Reason for policy violation. The policies MG_IFP_CA_HL, MG_IFP_CA_LH and MG_IFP_MGMT SHALL specify: That an information flow (as described in 7.5.1.2.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: o Silently drop traffic; o Reset the TCP/IP connection. The policy MG_IFP_CA_HL_IN SHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (ISR5-786)). ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET_MG_IFCPE-CA_HL_IN. The policy MG_IFP_CA_HL_IN SHALL specify the actions ACTIONS_MG_CA_LH_IN that the operation 'Enforce LH Communications IFCPE' SHALL execute for the information flow described in (ISR5-786)). ACTIONS_MG_CA_HL_IN SHALL specify the actions ACTIONS_MG_CA_LH_IN that the operation 'Enforce LH Communications IFCPE' SHALL secute for the information flow described in ACTIONS_MG_CA_LH_IN that the operation 'Enforce LH Communications IFCPE' SHALL secute for the information flow described in ACTIONS_MG_CA_LH_IN that the operation 'Enforce LH Communications IFCPE' SHALL secute for the information flow described in ACTIONS_MG_CA_LH_IN that the operation 'Enforce LH Communications IFCPE' SHALL secute for t		
SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-126] [SRS-7-127] [SRS-7-128]	 MG_IFP_MGMT_IN; MG_IFP_MGMT_OUT; MG_IFP_S5_LH; MG_IFP_S5_LH; MG_IFP_S5_LH; MG_IFP_S5_LH; MG_IFP_S5_LH; MG_IFP_S5_LH; MG_IFP_S1ALL specify the level of granularity of the outcome O_MG_IFCPE. Its SHALL be possible for MG_IFCPE to distinguish within O_MG_IFCPE: The sub-policy (ISR5-7.122) that was enforced when a policy violation was determined; Identification of the action that led to the policy violation; Reason for policy violation. The policies MG_IFP_CA_HL, MG_IFP_CA_LH and MG_IFP_MGMT SHALL specify: That an information flow (as described in 7.5.1.2.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: Silently drop traffic; Reset the TCP/IP connection. The policy MG_IFP_CA_HL, MSHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (ISR5-7.86)). ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULEST MG_IFCPE-CA_HL_IN. The policy MG_IFP_CA_HL, MIS SHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce LH Communications IFCPE' SHALL execute for the information flow described in (5.5.2.4.2). ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULEST MG_IFCPE-CA_HL_IN. The policy MG_IFP_CA_HL, MIS SHALL include the following actions: ACTIONS_MG_CA_HL_IN SHALL include the following actions: ACTIONS_MG_CA_HL_IN SHALL include the following actions: SHALL execute for the information flow described in 7.5.1.2.4.2. ACTIONS_MG_CA_HL_IN SHALL include the following actions: <td></td><td></td>		
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-126] [SRS-7-127] [SRS-7-128] [SRS-7-129]	 MG_IFP_MGMT_IN; MG_IFP_MGMT_UT; MG_IFP_BS_LH; MG_IFP_SS_LH; MG_IFP_SS_LH; MG_IFP_SS_HL. MG_IFP_SS_HL. MG_IFP_SS_HL. MG_IFP_SS_HL. It SHALL becrift he level of granularity of the outcome O_MG_IFCPE. It SHALL be possible for MG_IFCPE to distinguish within O_MG_IFCPE: The sub-policy (ISR5-7.122) that was enforced when a policy violation was determined; Identification of the action that led to the policy violation; Reason for policy violation. The policies MG_IFP_CA_HL, MG_IFP_CA_LH and MG_IFP_MGMT SHALL specify: The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: o Silently drop traffic; Reset the TCP/IP connection. The policy MG_IFP_CA_HL, MSHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (SR5-7.86). ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCP_CA_HL_IN. The policy MG_IFP_CA_HL, MI SHALL specify the actions ACTIONS_MG_CA_LH_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in 0.FICP_CA_HL_IN. The policy MG_IFP_CA_HL, MI SHALL specify the actions ACTIONS_MG_CA_LH_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in 7.5.1.2.4.2. ACTIONS_MG_CA_LH_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The policy MG_IFP_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The policy MG_CA_LH_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The po		
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-126] [SRS-7-127] [SRS-7-128] [SRS-7-129] [SRS-7-13]	 MG_IFP_MGMT_IN; MG_IFP_MGMT_OUT; MG_IFP_BS_LH; MG_IFP_SS_LH; MG_IFP_SS_LH; MG_IFP_STALL specify the level of granularity of the outcome O_MG_IFCPE. Its SHALL be possible for MG_IFCPE to distinguish within O_MG_IFCPE: The sub-policy (ISR5-7.122) that was enforced when a policy violation was determined; identification of the action that led to the policy violation; Reason for policy violation. The policies MG_IFP_CA_HU_MG_IFP_CA_LH and MG_IFP_MGMT SHALL specify: That an information flow (as described in 7.5.1.2.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: Silenty drop traffic; Reseat the TCP/IP connection. The policy MG_IFP_CA_HU_IN SHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (ISR5-7-86)). ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The policy MG_IFP_CA_HL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The policy MG_G_A_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The policy MG_IFP_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The interface 'Communications Access Services HI' MUST support an operation 'ReceiveInternalNetworkHI' on top of MG_IF_NET_HIGH that provides TCP/IP connectivity on the heigh domain by receiving IP traffic for processing by the MG. 		
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-126] [SRS-7-127] [SRS-7-128] [SRS-7-129] [SRS-7-13]	 MG_IFP_MGMT_IN; MG_IFP_MGMT_UIT; MG_IFP_BS_LH; MG_IFP_BS_LH; MG_IFP_SHALL specify the level of granularity of the outcome O_MG_IFCPE. Its SHALL be possible for MG_IFCPE to distinguish within O_MG_IFCPE: The sub-policy (ISR5-7.122) that was enforced when a policy violation was determined; Identification of the action that led to the policy violation; Reason for policy violation. The policies MG_IFC_A_HL_MG_IFP_CA_HL and MG_IFP_MGMT SHALL specify: That an information flow (as described in 7.5.1.2.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: Silenty drop traffic; Reset the TCP/IP connection. The policy MG_IFP_CA_HL_IN SHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (ISR5-7.86)]. ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The policy MG_IFP_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The policy MG_IFP_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The prolicy MG_GA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The information flow described in 7.5.1.2.4.2. ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The interface 'Communications Access Services HL' MUST support an operation "ReceiveIntermalNetworkHL' on top of MG_IF_NET_HIGH that provides TCP/IP_CO_HL_HOUT SH		
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-126] [SRS-7-127] [SRS-7-128] [SRS-7-129] [SRS-7-130]	 MG_IFP_MGMT_IN; MG_IFP_MGMT_UN; MG_IFP_BS_LH; MG_IFP_SS_LH; MG_IFP_SS_LH; MG_IFP_SHALL specify the level of granularity of the outcome O_MG_IFCPE. Its HALL be possible for MG_IFCPE to distinguish within O_MG_IFCPE: The sub-policy (ISR5-1122) that was enforced when a policy violation was determined; identification of the action that led to the policy violation; Reason for policy violation. The policies MG_IFP_CA_HL_MG_IFP_CA_LH and MG_IFP_MGMT SHALL specify: That an information flow (as described in 7.5.1.2.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: o Silently drop traffic; O Reset the TCP/IP connection. The policy MG_IFP_CA_HL_IN SHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (ISR5-7-86)). ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The policy MG_IFP_CA_LH_IN SHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce LH Communications IFCPE' SHALL execute for the information flow described in (ISR5-7-86)). ACTIONS_MG_CA_HL_INSHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The policy MG_IFP_CA_LH_IN SHALL specify the actions ACTIONS_MG_CA_LH_IN that the operation 'Enforce LH Communications IFCPE' SHALL execute for the information flow described in 7.5.1.2.4.2. ACTIONS_MG_CA_HL_INSHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The Interface 'Communications Access Services HL' MUST support an operation 'ReceivelnternalNetw		
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-126] [SRS-7-127] [SRS-7-128] [SRS-7-129] [SRS-7-13] [SRS-7-130]	 MG_IFP_MGMT_IN; MG_IFP_MGMT_UN; MG_IFP_BS_LH; MG_IFP_SHALL specify the level of granularity of the outcome O_MG_IFCPE. Its SHALL be possible for MG_IFCPE to distinguish within O_MG_IFCPE: The sub-policy (ISR5-7.122) that was enforced when a policy violation was determined; Identification of the action that led to the policy violation; Reason for policy violation. The policies MG_IFC_A_HL_MG_IFP_CA_LH and MG_IFP_MGMT SHALL specify: That an information flow (as described in 7.5.1.2.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: Silently drop traffic; Reation the MG shall take in case information flow is not permitted. The possible actions SHALL include: Silently drop traffic; Rest the TCP/IP connection. The policy MG_IFP_CA_HL_IN SHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (ISR5-7-86)]. ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN The policy MG_IFP_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN The interface: 'Communications Access Services HL' MUST support an operation 'ReceiveInternalNetworkHL' on top of MG_IF_NET_HIGH that provides TCP/IP connectivity on the high domain by receiving IP traffic for processing by the MG. The policy MG_IFP_CA_HL_INUT SHALL include the following actions: Filter traffic based on the ruleset RULESET_MG_IFCPE-CA_H_INS_CA_LH_INUT that the operation 'Enforce LH Communications IFCPE' SHALL execute for the information flow described in 7.5.1.2.4.2. ACTIONS		
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-126] [SRS-7-126] [SRS-7-129] [SRS-7-129] [SRS-7-13] [SRS-7-130] [SRS-7-131]	 MG_IFP_MGMT_IN; MG_IFP_MGMT_UT; MG_IFP_BS_LH; MG_IFP_SS_LH; MG_IFP_STALL specify the level of granularity of the outcome O_MG_IFCPE. Its SHALL be possible for MG_IFCPE to distinguish within O_MG_IFCPE: The sub-policy (ISR5-7.122) that was enforced when a policy violation was determined; Identification of the action that led to the policy violation; Reason for policy violation. The policies MG_IFP_CA_HL, MG_IFP_CA_LH and MG_IFP_MGMT SHALL specify: That an information flow (as described in 7.5.1.2.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: o Silently drop traffic; o Reset the TCP/IP connection. The policy MG_IFP_CA_HL, IN SHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (JSR5-7.86)]. ACTIONS_MG_CA, HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET_MG_IFCPE-CA_HL_IN. The policy MG_IFP_CA_LH_IN SHALL specify the actions ACTIONS_MG_CA_LH_IN that the operation 'Enforce HL communications IFCPE' SHALL execute for the information flow described in (JSR5-7.86)]. ACTIONS_MC_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET_MG_IFCPE-CA_H_IN. The policy MG_IFP_CA_LH_IN SHALL specify the actions ACTIONS_MG_CA_LH_IN that the operation 'Enforce LH Communications IFCPE' SHALL execute for the information flow described in (JSR5-7.63)]. ACTIONS_MC_CA_HL_INS HALL include the following actions: Filter traffic based on the ruleset RULESET_MG_IFCPE-CA_H_IN. The inferration flow described in (JSR5-7.103)]. ACTIONS_MC_CA_LH_INS HALL in		
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-126] [SRS-7-126] [SRS-7-129] [SRS-7-129] [SRS-7-13] [SRS-7-130] [SRS-7-131]	 MG_IFP_MGMT_IN; MG_IFP_MGMT_UT; MG_IFP_BS_LH; MG_IFP_SHALL specify the level of granularity of the outcome O_MG_IFCPE. Its SHALL be possible for MG_IFCPE to distinguish within O_MG_IFCPE: The sub-policy (ISR5-7.122) that was enforced when a policy violation was determined; Identification of the action that led to the policy violation; Reason for policy violation. The policies MG_IFC_A_HL_MG_IFP_CA_HL and MG_IFP_MGMT SHALL specify: That an information flow (as described in 7.5.1.2.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: Silenty drop traffic; Reset the TCP/IP connection. The policy MG_IFP_CA_HL_IN SHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (ISR5-7.86)]. ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The policy MG_IFP_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The interface 'Communications ACCES Services HL' MUST support an operation 'ReceiveInternalNetworkHL' on top of MG_IF_NET_HIGH that provides TCP/IP connectivity on the high domain by receiving IP traces in the MG. Her traffic based on the ruleset RULESET MG_IFCPE-CA_H_I_NN. ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_H_I_NN. ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HI_NN. ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the rul		
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-126] [SRS-7-126] [SRS-7-128] [SRS-7-128] [SRS-7-130] [SRS-7-130] [SRS-7-131] [SRS-7-132]	 MG_IFP_MGMT_IN; MG_IFP_MGMT_UT; MG_IFP_BS_LH; MG_IFP_SS_LH; MG_IFP_STALL specify the level of granularity of the outcome O_MG_IFCPE. Its SHALL be possible for MG_IFCPE to distinguish within O_MG_IFCPE: The sub-policy (ISR5-7.122) that was enforced when a policy violation was determined; Identification of the action that led to the policy violation; Reason for policy violation. The policies MG_IFP_CA_HL, MG_IFP_CA_LH and MG_IFP_MGMT SHALL specify: That an information flow (as described in 7.5.1.2.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: o Silently drop traffic; o Reset the TCP/IP connection. The policy MG_IFP_CA_HL, IN SHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (ISR5-7.86)). ACTIONS_MG_CA, HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET_MG_IFCPE-CA_HL_IN. The policy MG_IFP_CA_LH_IN SHALL specify the actions ACTIONS_MG_CA_LH_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (ISR5-7.86)). ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET_MG_IFCPE-CA_HL_IN. The policy MG_IFP_CA_LH_IN SHALL specify the actions ACTIONS_MG_CA_LH_UN that the operation 'Enforce LH Communications IFCPE' SHALL execute for the information flow described in (ISR5-7.403)). ACTIONS_MC_CA_HL_INS HALL include the following actions: Filter traffic based on the ruleset RULESET_MG_IFCPE-CA_HL_IN. The infertafic based on the ruleset RULESET_MG_IFCPE-CA_LH_UN. The infertafic based on the ruleset RU		
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-126] [SRS-7-127] [SRS-7-128] [SRS-7-129] [SRS-7-130] [SRS-7-131] [SRS-7-131] [SRS-7-132] [SRS-7-133]	 MG_IFP_MGMT_IN; MG_IFP_MGMT_UT; MG_IFP_S5_LH; MG_IFP_S5_LH; MG_IFP_S1ALL specify the level of granularity of the outcome O_MG_IFCPE. It SHALL be possible for MG_IFCPE to distinguish within O_MG_IFCPE: The sub-policy (ISR5-7.122) that was enforced when a policy violation was determined; identification of the action that led to the policy violation; Reason for policy violation. The policy MG_IFP_CA_HL_MG_IFP_CA_LH and MG_IFP_MGMT SHALL specify: The tain information flow (as described in 7.5.1.2.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: o Silently drop traffic; Reset the TCP/IP connection. The policy MG_IFP_CA_LH_IN SHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (ISR5-7.86)). ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The policy MG_IFP_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The interface: Communications Access Services HL' MUST support an operation 'RendevelnternalNetworkHL' on top of MG_IF_NET_HIGH that provides TCP/IP connectivity on the high domain by receiving IP traffic for processing by the MG. The policy MG_IFP_CA_H_UOT SHALL specify the actions ACTIONS_MG_CA_LH_UOT that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (ISR5-7.103). ACTIONS_MG_CA_IH_UOT SHALL specify the actions ACTIONS_MG_MGMT_UOT that the operation 'Enforce HL Communications IFCPE' SHALL execute for the high domain by receiving IP traffic for processing by the		
SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-126] [SRS-7-126] [SRS-7-128] [SRS-7-128] [SRS-7-130] [SRS-7-130] [SRS-7-131] [SRS-7-132] [SRS-7-133] [SRS-7-134] [SRS-7-135]	 MG_IFP_MGMT_[N; MG_IFP_MGMT_[N; MG_IFP_SS_LH; MG_IFP_SS_LH; MG_IFP_SS_LH; MG_IFP_SHALL specify the level of granularity of the outcome O_MG_IFCPE. Its HALL be possible for MG_IFCPE to distinguish within O_MG_IFCPE: The sub-policy (ISR5-7.122) that was enforced when a policy violation was determined; identification of the action that led to the policy violation; Reason for policy violation. The policies MG_IFP_CA_HL, MG_IFP_CA_LH and MG_IFP_MGMT SHALL specify: That an information flow (as described in 7.5.1.2.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: Silenty drop traffic; Reseat the TCP/IP connection. The policy MG_IFP_CA_HL_IN SHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (ISR5-7-86)). ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The policy MG_IFP_CA_LH_IN SHALL specify the actions ACTIONS_MG_CA_LH_IN that the operation 'Enforce LH Communications IFCPE' SHALL execute for the information flow described in 7.5.1.2.4.2. ACTIONS_MG_CA_HL_INSHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The interface 'Communications Access Services HL' MUST support an operation 'ReceiveInternalNetworkHL' on top of MG_IF_NET_HIGH that provides TCP/IP connetivity on the high domain by receiving IP traffic or rocessing by the MG. The policy MG_IFP_CA_HL_OUT SHALL specify the actions ACTIONS_MG_CA_HL_OUT that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (ISR5-7-88)).		
SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-125] [SRS-7-126] [SRS-7-127] [SRS-7-128] [SRS-7-130] [SRS-7-130] [SRS-7-131] [SRS-7-132] [SRS-7-134] [SRS-7-136] [SRS-7-136] [SRS-7-136]	 MG_IFP_MGMT_IN; MG_IFP_MGMT_UN; MG_IFP_BS_LH; MG_IFP_SS_LH; MG_IFP_STALL specify the level of granularity of the outcome O_MG_IFCPE. Its SHALL be possible for MG_IFCPE to distinguish within O_MG_IFCPE: The sub-policy (ISR5-7.122) that was enforced when a policy violation was determined; Identification of the action that led to the policy violation; Reason for policy violation. The polices MG_IFP_CA_HL MG_IFP_CA_LH and MG_IFP_MGMT SHALL specify: That an information flow (as described in 7.5.1.2.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: Silenty drop traffic; Reset the TCP/IP connection. The policy MG_IFP_CA_HL_IN SHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (ISR5-7.86)). ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The policy MG_IFP_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The interface: Communications Access Services HL' MUST support an operation 'ReceiveIntermalNetworkHL' on top of MG_IF_NET_HIGH that provides TCP/IP connectivity on the high domain by receiving IP traffic for processing by the MG. The policy MG_IFP_CA_HL_OUT SHALL specify the actions ACTIONS_MG_CA_LH_OUT that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (ISR5-7.103). ACTIONS_MG_CA_HL_UOT SHALL specify the actions ACTIONS_MG_MGMT_OUT that the operation 'Enforce HL Communications IFCPE' SHALL execute for the high domain by receiving IP traffic for processing by the M		
SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-125] [SRS-7-126] [SRS-7-127] [SRS-7-128] [SRS-7-128] [SRS-7-130] [SRS-7-130] [SRS-7-131] [SRS-7-132] [SRS-7-133] [SRS-7-133] [SRS-7-133]	 MG_IFP_MGMT_IN; MG_IFP_MGMT_UT; MG_IFP_SS_LH; MG_IFP_SS_LH; MG_IFP_SHALL specify the level of granularity of the outcome O_MG_IFCPE. Its SHALL be possible for MG_IFCPE to distinguish within O_MG_IFCPE: The sub-policy (ISR5-7122) that was enforced when a policy violation was determined; Identification of the action that led to the policy violation; Reason for policy violation. The policies MG_IFP_CA_HU, MG_IFP_CA_LH and MG_IFP_MGMT SHALL specify: That an information flow (as described in 7.5.1.2.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: o Silently droy traffic; O Reset the TCP/IP connection. The policy MG_IFP_CA_HU, IN SHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (ISR5-7-86)]. ACTIONS_MG_CA, HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET. MG_IFCPE-CA_LH_IN. The policy MG_IFP_CA_LH_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET_MG_IFCPE-CA_LH_IN. The frace Communications Access Services HL' MUST support an operation 'ReceiveInternalNetworkHL' on top of MG_IF_NET_HIGH that provides TCP[/P connectivity on the high domain by receiving IP traffic for processing by the MG. The policy MG_IFP_CA_LH_OUT SHALL specify the actions ACTIONS_MG_CA_LH_OUT that the operation 'Enforce LH Communications IFCPE' SHALL execute for the information flow described in (ISR5-7-88)]. The policy MG_IFP_CA_LH_OUT SHALL specify the actions ACTIONS_MG_MG_MT_OUT that the operation 'Enforce UH communications IFCPE' SHALL execute for the information flow described in (ISR5-7-88]). The		
SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-125] [SRS-7-126] [SRS-7-127] [SRS-7-128] [SRS-7-129] [SRS-7-130] [SRS-7-130] [SRS-7-131] [SRS-7-132] [SRS-7-133] [SRS-7-134] [SRS-7-136] [SRS-7-137] [SRS-7-139] [SRS-7-139]	 MG_IFP_MGMT_N; MG_IFP_MGMT_N; MG_IFP_SD_LT; MG_IFP_SD_LT; MG_IFP_SD_LT; MG_IFP_SD_LT; MG_IFP_SD_LT; MG_IFP_SD_LT; MG_IFP_SD_LT; MG_IFP_SD_LT; The policy (JSR-7-122)] that was enforced when a policy violation was determined; videntification of the action that led to the policy violation; Reason for policy violation. The policy MG_IFP_CA_HL, MG_IFP_CA_LH and MG_IFP_MGMT SHALL specify: That an information flow (as described in 7.5.1.2.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: Silently drop traffic; Reset the TCP/IP connection. The policy MG_IFP_CA_HL, MS_HALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (JSR-7-86)]. ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The policy MG_IFP_CA_HL_IN SHALL specify the actions ACTIONS_MG_CA_LH_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in 7.5.1.2.4.2. ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The interface' Communications Access Services HL' MUST support an operation 'ReceiveInternalNetworkHL' on top of MG_IF_NET_HIGH that provides TCP/IP connectivity on the high domain by receiving IP traffic for processing by the MG. The policy MG_IFP_CA_HL_OUT SHALL specify the actions ACTIONS_MG_CA_LH_OUT that the operation 'Enforce LH Communications IFCPE' SHALL execute for the information flow described in (SRS-7-303). ACTIONS_MG_CA_LH_OUT SHALL specify the action		
SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-125] [SRS-7-126] [SRS-7-127] [SRS-7-129] [SRS-7-129] [SRS-7-130] [SRS-7-130] [SRS-7-131] [SRS-7-132] [SRS-7-133] [SRS-7-133] [SRS-7-136] [SRS-7-138] [SRS-7-138] [SRS-7-138] [SRS-7-138] [SRS-7-138]	 MG_IFP_MGMT_N; MG_IFP_MGMT_OUT; MG_IFP_SD_H. MG_IFP_GA_H. Sean for Dollcy Violation. Reason for policy violation. Reason for policy violation. The apolicies MG_IFP_CA_HL, MG_IFP_CA_LH and MG_IFP_MGMT SHALL specify: That an information flow (as described in 7.5.1.2.7, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; Reason for policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: Silently drop traffic; Reset the TCP/IP connection. The policy MG_IFP_CA_HL_IN SHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in [SRS-7-86]). ACTIONS_MG_CA_HL_IN SHALL Include the following actions: Filter traffic based on the ruleset RULESET_MG_IFCPE-CA_HL_IN. The policy MG_IFP_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET_MG_IFCPE-CA_LH_IN. The policy MG_IFP_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET_MG_IFCPE-CA_LH_IN. The policy MG_IFP_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET_MG_IFCPE-CA_LH_IN. The policy MG_IFP_CA_HL_HUT SHALL include the following actions: Filter traffic based on the ruleset RULEST_MG_IFCPE-CA_LH_IONT. The policy MG_IFP_CA_HL_HUT SHALL include the following actions: Filter traffic based on the ruleset RULEST_MG_IFCPE-CA_LH_UOTT. The policy MG_IFP_CA_HL_HUT SHAL		
SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-125] [SRS-7-126] [SRS-7-127] [SRS-7-129] [SRS-7-129] [SRS-7-130] [SRS-7-130] [SRS-7-131] [SRS-7-132] [SRS-7-133] [SRS-7-133] [SRS-7-136] [SRS-7-138] [SRS-7-138] [SRS-7-138] [SRS-7-138] [SRS-7-138]	 MG_IFP_MGMT_N; MG_IFP_MGMT_N; MG_IFP_SD_LT; MG_IFP_SD_LT; MG_IFP_SD_LT; MG_IFP_SD_LT; MG_IFP_SD_LT; MG_IFP_SD_LT; MG_IFP_SD_LT; MG_IFP_SD_LT; The policy (JSR-7-122)] that was enforced when a policy violation was determined; videntification of the action that led to the policy violation; Reason for policy violation. The policy MG_IFP_CA_HL, MG_IFP_CA_LH and MG_IFP_MGMT SHALL specify: That an information flow (as described in 7.5.1.2.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: Silently drop traffic; Reset the TCP/IP connection. The policy MG_IFP_CA_HL, MS_HALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (JSR-7-86)]. ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The policy MG_IFP_CA_HL_IN SHALL specify the actions ACTIONS_MG_CA_LH_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in 7.5.1.2.4.2. ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_HL_IN. The interface' Communications Access Services HL' MUST support an operation 'ReceiveInternalNetworkHL' on top of MG_IF_NET_HIGH that provides TCP/IP connectivity on the high domain by receiving IP traffic for processing by the MG. The policy MG_IFP_CA_HL_OUT SHALL specify the actions ACTIONS_MG_CA_LH_OUT that the operation 'Enforce LH Communications IFCPE' SHALL execute for the information flow described in (SRS-7-303). ACTIONS_MG_CA_LH_OUT SHALL specify the action		
SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-125] [SRS-7-126] [SRS-7-127] [SRS-7-129] [SRS-7-129] [SRS-7-130] [SRS-7-130] [SRS-7-131] [SRS-7-132] [SRS-7-133] [SRS-7-133] [SRS-7-136] [SRS-7-138] [SRS-7-138] [SRS-7-138] [SRS-7-138] [SRS-7-138] [SRS-7-138]	 MG_IPP_MGMT_UN; MG_IPP_MGMT_UN; MG_IPP_SL;H; MG_IPP_CA_IH, MG_IPP_CA_IH and MG_IPP_MGMT SHALL specify: That an information flow (as described in 7.5.1.2.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: Ostert HCPIP connection. The polici MG_IPP_CA_IH_IN SHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation "Enforce HL Communications IFCPE' SHALL execute for the information flow described in (JSR5-786)]. ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET MG_IFCPE-CA_LH_IN. The policy MG_IPP_CA_LH_IN SHALL specify the actions ACTIONS_MG_CA_LH_IN that the operation "Enforce LH Communications IFCPE' SHALL execute for the information flow described in 7.5.1.2.4.2. ACTIONS_MG_CA_HL_IN SHALL include the following actions: Filter traffic based on the ruleset RULESET_MG_IFCPE-CA_LH_IN. The interface "Communications Access Services HL' MUST support an operation "ReceiveInternalNetworkHL' on top of MG_IF_NET_HIGH that provides ICPP_COM_UNT shall specify the actions ACTIONS_MG_CA_LH_OUT that the operation "Enforce LH Communications IFCPE' SHALL execute for the information flow described in (SR5-7.88)]. ACTIONS_MG_CA_LH_OUT SHALL specify the actions ACTIONS_MG_CA_LH_OUT that the operation "Enforce Management Communications IFCPE' SHALL execute for th		
SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-125] [SRS-7-126] [SRS-7-127] [SRS-7-129] [SRS-7-129] [SRS-7-130] [SRS-7-130] [SRS-7-131] [SRS-7-132] [SRS-7-133] [SRS-7-133] [SRS-7-136] [SRS-7-138] [SRS-7-138] [SRS-7-138] [SRS-7-138] [SRS-7-138] [SRS-7-138]	 MG_IPP_MGMT_[UT; MG_IPP_BS_LH; MG_IPP_BS_LH; MG_IPP_BS_LH; MG_IPP_SS_HL MG_IPP_CA_HL MG_IPP_CA_HL MG_IPP_CA_HL MSHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce LIC Communications IFCPE' SHatL execute for the information flow described in [SS-7-86]). ACTIONS_MG_CA_HL_IN SHALL specify the actions ACTIONS_MG_CA_LL_IN that the operation 'Enforce LIC Communications IFCPE' SHALL execute for the information flow described in [SS-7-86]). ACTIONS_MG_CA_HL_IN SHALL specify the actions ACTIONS_MG_CA_LL_IN that the operation 'Enforce LIC Communications IFCPE' SHALL execute for the information flow described in [SS-7-86]). ACTIONS_MG_CA_LH_IN SHALL specify the actions ACTIONS_MG_CA_LH_IN that the operation 'Enforce LIC Communications IFCPE' SHALL execute for the information flow described in [SS-7-86]). ACTIONS_MG_CA_LH_INS HALL specify the actions ACTIONS_MG_CA_LH_OUT that the operation 'Enforce LIC Communications IFCPE' SHALL execute for the information flow described in [SS-7-86]). ACTIONS_MG_CA_LH_INS HALL specify the actions ACTIONS_MG_CA_LH_OUT that the operation 'Enforce LIC Communications IFCPE' SHALL execute for the information flow described in [SS-7-81]. ACTIONS_MG_CA_LH_INS HALL specify the actions ACTIONS_MG_CA_LH_OUT that the operation 'Enforce Management Communications IFCPE' SHALL execute for the information flow described in [SS-7-80]. ACTIONS_MG_CA_LH_UOT SHALL specify the actions ACTIONS_		
SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-126] [SRS-7-126] [SRS-7-128] [SRS-7-128] [SRS-7-130] [SRS-7-130] [SRS-7-130] [SRS-7-131] [SRS-7-132] [SRS-7-133] [SRS-7-134] [SRS-7-134] [SRS-7-136] [SRS-7-138] [SRS-7-138] [SRS-7-138] [SRS-7-138] [SRS-7-139] [SRS-7-140] [SRS-7-141]	 MG_IP_MGNT_UN; MG_IPP_MGNT_UN; MG_IPP_BS_HI. MG_IPP_BS_HI. MG_IPP_BS_HI. MG_IPP_BS_HI. MG_IPP_BS_HI. MG_IPP_BS_HI. MG_IPP_SS_HI. MG_IPP_SS_HI. MG_IPP_SS_HI. MG_IPP_SS_HI. MG_IPP_SS_HI. MG_IPP_SS_HI. MG_IPP_SS_HI. MG_IPP_SS_HI. MG_IPP_SS_HI. MG_IPP_CA_HI. MG_IPP_CA_HI. MG_IPP_CA_LI. MG_IPP_CA_HI. MG_IPP_MGMT_INSALL Include the fo		
SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-126] [SRS-7-126] [SRS-7-128] [SRS-7-128] [SRS-7-130] [SRS-7-130] [SRS-7-130] [SRS-7-131] [SRS-7-132] [SRS-7-133] [SRS-7-134] [SRS-7-134] [SRS-7-136] [SRS-7-138] [SRS-7-138] [SRS-7-138] [SRS-7-138] [SRS-7-139] [SRS-7-140] [SRS-7-141]	 MG_IPP_MGNT_UD; MG_IPP_MGNT_UD; MG_IPP_SLH; MG_IPP_CA_H, MG_IPP_CA_H and MG_IPP_MGMT SHALL specify: That an information flow (as described in 7.5.1.22, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation. The policies MG_IPP_CA_H, MG_IPP_CA_LH and MG_IPP_MGMT SHALL specify: That an information flow (as described in 7.5.1.22, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: Silently drop traffic; Reset the TCP/IP connection. The policy MG_IPP_CA_H, IN SHALL specify the actions ACTIONS_MG_CA_H_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in (ISS-7.86). ACTIONS_MG_CA_H, IN SHALL specify the actions ACTIONS_MG_CA_H_IN that the operation 'Enforce LH Communications IFCPE' SHALL execute for the information flow described in 7.5.1.2.2. ACTIONS_MG_CA_H_IN SHALL include the following actions: Filter traffic based on the uleset RULEST_MG_ICPE-CA_H_IN. The interface 'Communications Access Services HL' MUST support an operation 'ReceiveInternalNetworkHL' on top of MG_IF_NET_HIGH that provides TCP/IF CONT. ACTIONS_MG_CA_H_IN SHALL include the following actions: Filter traffic based on the ruleset RULEST_MG_ICPE-CA_H_IN. The policy MG_IPP_CA_H_HAULL include the following actions: 		
SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-125] [SRS-7-127] [SRS-7-128] [SRS-7-128] [SRS-7-129] [SRS-7-129] [SRS-7-130] [SRS-7-131] [SRS-7-131] [SRS-7-132] [SRS-7-133] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-140] [SRS-7-141]	 MG, JP, MGMT, JN; MG, JPP, SALL specify the level of granularity of the outcome O_MG_JFCPE. MG_JPP, SS, LH; MG		
SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-125] [SRS-7-127] [SRS-7-128] [SRS-7-128] [SRS-7-129] [SRS-7-129] [SRS-7-130] [SRS-7-131] [SRS-7-131] [SRS-7-132] [SRS-7-133] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-140] [SRS-7-141]	 MG, IP, MGMT, UN; MG, IPP, SL, UH; MG, IPP,		
SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-125] [SRS-7-126] [SRS-7-127] [SRS-7-128] [SRS-7-129] [SRS-7-130] [SRS-7-130] [SRS-7-131] [SRS-7-131] [SRS-7-132] [SRS-7-133] [SRS-7-133] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-137] [SRS-7-140] [SRS-7-142] [SRS-7-143]	 MG, IP, MGMT, UN; MG, IPP, SL, UH; MG, IPP, SS, JLI, MG, IPP, CA, HL, MG, IPP, CA, LH and MG, IPP, MGMT SHALL specify: That an information flow discribed in 75.12.2, 7.5.13.2 and 75.1.4.1 respectively is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is is not permitted. The possible actions SHALL include: Silently drop traffic; Reset the TCPI connection. The policy MG, IPP, CA, LH, N SHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in 75.12.4.2. ACTIONS_MG_CA_HL, IN SHALL specify the actions ACTIONS_MG_CA_LH_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in 75.12.4.2. ACTIONS_MG_CA_LH, IN SHALL specify the actions ACTIONS_MG_CA_LH_IN that the operation 'Enforce HC Communications IFCPE' SHALL execute for the information flow described in 75.12.4.2. ACTIONS_MG_CA_LH, IN SHALL specify the actions ACTIONS_MG_CA_LH_OUT that the operation 'Enforce HC Communications IFCPE' SHALL execute for the high domain by receiving IP traffic for processing by the MG. The policy MG_IP_CA_LH_UOT SHALL specify the actions ACTIONS_MG_CA_LH_OUT that the operation 'Enforce HL Communications IFCPE' SHALL execute for the hight domain by receiving IP traffic for procesing by the MG.		
SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-125] [SRS-7-126] [SRS-7-127] [SRS-7-128] [SRS-7-129] [SRS-7-130] [SRS-7-130] [SRS-7-131] [SRS-7-131] [SRS-7-132] [SRS-7-133] [SRS-7-133] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-137] [SRS-7-140] [SRS-7-142] [SRS-7-143]	 MG, JP, MGMT, JN; MG, JPP, SD, LH; MG, JPP, SS, LH; MG, JPP, SS, JL, MG, JPP, SS, JL, JL, MC, JPP, CA, LH and MG, PFP, MGMT SHALL specify: That an information fow (a Sectorelia n 7.5.1.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_JFCPE constitutes a policy violation; The atoline MG, JPP, CA, HL, MG, JPP, CA, LH and MG, PFP, MGMT SHALL specify: The atoline MG Shall take in case information flow is is not permitted. The possible actions SHALL include: Glienti MG, JPP, CA, JH, MS, JPP, CA, LH, and MG, SPA, SGA, CA, JL, JN that the operation 'Enforce HL Communications IFCPE' SHALL secute for the information flow described in (JSSS-7.46). ACTIONS, MG, CA, JH, JN SHALL include the following actions: Filter traffic solution information flow described in 5.5.1.2.4.2. ACTIONS, MG, CA, JH, JN SHALL specify the actions ACTIONS, MG, CA, LH, JN that the operation 'Enforce LH Communications IFCPE' SHALL secute for the information flow described in 5.5.1.2.4.2. ACTIONS, MG, CA, JH, JN SHALL specify the actions ACTIONS, MG, CA, LH, JN that the operation 'Enforce LH Communications IFCPE' SHALL secute for the information flow described in (JSSS-7.40). ACTIONS, MG, CA, JH, JN SHALL specify the actions ACTIONS, MG, CA, LH, OUT that the operation 'Enforce LH Communications IFCPE' SHALL secute for the information flow described in (JSSS-7.40). ACTIONS, MG, CA, LH, UN SHALL specify the actions ACTIONS, MG, CA, LH, OUT that the operation 'Enforce HAnagement Communications IFCPE' SHALL secute fo		
SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-125] [SRS-7-126] [SRS-7-127] [SRS-7-128] [SRS-7-129] [SRS-7-130] [SRS-7-130] [SRS-7-131] [SRS-7-131] [SRS-7-132] [SRS-7-133] [SRS-7-133] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-136] [SRS-7-137] [SRS-7-140] [SRS-7-142] [SRS-7-143]	 MG, IP, MGMT, UN; MG, IPP, SL, UH; MG, IPP, SS, JLI, MG, IPP, CA, HL, MG, IPP, CA, LH and MG, IPP, MGMT SHALL specify: That an information flow discribed in 75.12.2, 7.5.13.2 and 75.1.4.1 respectively is not permitted if the outcome O_MG_IFCPE constitutes a policy violation; The action the MG shall take in case information flow is is not permitted. The possible actions SHALL include: Silently drop traffic; Reset the TCPI connection. The policy MG, IPP, CA, LH, N SHALL specify the actions ACTIONS_MG_CA_HL_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in 75.12.4.2. ACTIONS_MG_CA_HL, IN SHALL specify the actions ACTIONS_MG_CA_LH_IN that the operation 'Enforce HL Communications IFCPE' SHALL execute for the information flow described in 75.12.4.2. ACTIONS_MG_CA_LH, IN SHALL specify the actions ACTIONS_MG_CA_LH_IN that the operation 'Enforce HC Communications IFCPE' SHALL execute for the information flow described in 75.12.4.2. ACTIONS_MG_CA_LH, IN SHALL specify the actions ACTIONS_MG_CA_LH_OUT that the operation 'Enforce HC Communications IFCPE' SHALL execute for the high domain by receiving IP traffic for processing by the MG. The policy MG_IP_CA_LH_UOT SHALL specify the actions ACTIONS_MG_CA_LH_OUT that the operation 'Enforce HL Communications IFCPE' SHALL execute for the hight domain by receiving IP traffic for procesing by the MG.		
SOW Annex-A SOW Annex-A	[SRS-7-124] [SRS-7-125] [SRS-7-125] [SRS-7-126] [SRS-7-127] [SRS-7-128] [SRS-7-128] [SRS-7-130] [SRS-7-130] [SRS-7-131] [SRS-7-132] [SRS-7-133] [SRS-7-133] [SRS-7-133] [SRS-7-134] [SRS-7-136] [SRS-7-137] [SRS-7-138] [SRS-7-138] [SRS-7-141] [SRS-7-142] [SRS-7-142] [SRS-7-143] [SRS-7-145]	 MG, JPP, MGMT, JN; MG, JPP, SS, JL; MG, JPS SHALL specify the level of granularity of the outcome D. MG. JFCPE: This sub-policy (JSS-7:122) Into sub-force MG, JFCPE: This sub-policy (JSS-7:122) Into sub-force MG, JFCPE: Hornitaction of the action that led to the policy violation; Reason for policy violation. The and JPP (JS-7:122) Into sub-force MG and MG, JFP_MGMT SHALL specify: That an information flow (as Science in 75.12.2, 7.5.1.3.2 and 7.5.1.4.1 respectively) is not permitted if the outcome O_MG_JFCPE constitutes a policy violation; The action the MG shall take in case information flow is not permitted. The possible actions SHALL include: Silently drop traffic; Reset the TCPJP connection. The policy MG, JFP, CA, HL, IN SHALL specify the actions ACTIONS, MG, CA, HL, IN that the operation "Enforce HL Communications IFCPE' SHALL execute for the information flow described in (JSS-7.86)]. ACTIONS, MG, CA, HL, IN SHALL specify the actions ACTIONS, MG, CA, LH, IN that the operation "Enforce LH Communications IFCPE' SHALL execute for the information flow described in (JSS-7.86)]. ACTIONS, MG, CJ, HL, MSHALL specify the actions ACTIONS, MG, CA, LH, IN that the operation "Enforce LH Communications IFCPE' SHALL execute for the information flow described in (JSS-7.86)]. ACTIONS, MG, CJ, HL, MSHALL specify the actions ACTIONS, MG, CA, LH, IN that the operation "Enforce LH Communications IFCPE' SHALL execute for the information flow described in (JSS-7.81)]. ACTIONS, MC, CJ, HL, MSHALL specify the actions ACTIONS, MG, CA, LH, UN that the operation "Enforce IH Communications IFCPE' SHALL execute for the information flow described in (JSS-7.83)]. ACTIONS, MC, CJ, HL, UNSHALL specify the actions ACTIONS, MG, CA, LH, UN that the operation "Enforce HL Communicati		

SOW Annex-A	[SRS-7-147]	The actions for compliant email messages SHALL include:		
		MG_IFP_ACTION_COMPLIANT MG_IFP_ACTION_JOURNAL		
		MG_IFP_ACTION_ALERT		
SOW Annex-A	[SRS-7-148]	The Business Support Services IFCP SHALL support a configurable action (MG_IFP_ACTION_NONCOMPLIANT) which processes the non-		
SOW Annex-A	[SRS-7-149]	compliant email message. MG IFP ACTION NONCOMPLIANT action SHALL support an option (DROP) to silently drop the email message from the information flow (i.e.		
30W Annex-A	[513-7-145]	the email message is not transferred to the recipients and a delivery status notification is not returned to the originator).		
SOW Annex-A	[SRS-7-15]	The interface 'Communications Access Services HL' MUST support an operation 'ForwardInternalNetworkHL' on top of MG_IF_NET_LOW		
SOW Annex-A	[SRS-7-150]	that forwards IP traffic to the low domain. MG_IFP_ACTION_NONCOMPLIANT action SHALL support an option (NON-DELIVER) to non-deliver the non-compliant email message (i.e. the		
SOW AIMERA	[513-7-150]	message is not transferred to the recipients and a delivery status notification is returned to the originator).		
SOW Annex-A	[SRS-7-151]	MG_IFP_ACTION_NONCOMPLIANT action with the option NON-DELIVER SHALL generate a delivery status notification in accordance with		
SOW Annex-A	[SPS-7-152]	[IETF RFC 3464, 2003]. MG_IFP_ACTION_NONCOMPLIANT action SHALL support an option (QUARANTINE) to hold the email message in quarantine (i.e. the message		
JOW AIMEA A	[510 7 152]	is not transferred to the recipients and a delivery status notification is not returned to the originator).		
SOW Annex-A	[SRS-7-153]	The email messages that are placed into quarantine SHALL be held in quarantine until either released (to the recipients) or deleted by an		
SOW Annex-A	[SRS=7=154]	administrator. The BSS_IFCP_ACTION_NONCOMPLIANT action SHALL only be configured with one of the options (DROP, NON-DELIVER or QUARANTINE).		
5011 Autor A	[0.10 1 20 1]			
SOW Annex-A	[SRS-7-155]	The Business Support Services IFCP SHALL support a configurable action (MG_IFP_ACTION_JOURNAL) which processes a non-compliant email		
SOW Annex-A	[SRS-7-156]	message. The MG_ICP_ACTION_JOURNAL action SHALL be capable of being either enabled or disabled with an IFCP.		
SOW Annex-A	[SRS-7-157]	The MG_IFP_ACTION_JOURNAL action SHALL forward a copy of the non-compliant email message to a configurable email recipient.		
SOW Annex-A	[SRS-7-158]	The Business Support Services IFCP SHALL support a configurable action (MG_IFP_ACTION_NOTIFY) which processes a non-compliant email		
SOW Annex-A	[SRS-7-159]	message. MG_IFP_ACTION_NOTIFY action SHALL be capable of being either enabled or disabled with an IFCP.		
SOW Annex-A		The operation 'ForwardInternalNetworkHL' MUST support error handling as specified in [IETF RFC 7414, 2015].		
SOW Annex-A	[SRS-7-160]	MG_IFP_ACTION_NOTIFY action SHALL support an option (ORIGINATOR) to send the notification message to the originator of the non-		
SOW Annex-A	[SRS-7-161]	compliant email message. MG_IFP_ACTION_NOTIFY action SHALL support an option (RECIPIENTS) to send the notification message to the intended recipients of the		
		non-compliant email message.		
SOW Annex-A	[SRS-7-162]	MG_IFP_ACTION_NOTIFY action SHALL support an option (ADMINISTRATOR) to send the notification message to a configurable		
SOW Annex-A	[SRS-7-163]	administrator recipient. MG_IFP_ACTION_NOTIFY action SHALL be configured with zero or more of the options (ORIGINATOR, RECIPIENTS and ADMINISTRATOR).		
Jow Annex-A				
SOW Annex-A	[SRS-7-164]	The Business Support Services IFCP SHALL support a configurable action (MG_IFP_ACTION_COMPLIANT) which processes the compliant email		
SOW Annex-A	[SRS-7-165]	message. MG_IFP_ACTION_COMPLIANT action SHALL always being enabled within an IFCP.		
SOW Annex-A SOW Annex-A		MG_IFP_ACTION_COMPLIANT action SHALL always being enabled within an IFCP. MG_IFP_ACTION_COMPLIANT action SHALL release the compliant message to the recipient domain.	<u> </u>	
SOW Annex-A		The Business Support Services IFCP SHALL support a configurable action (MG_IFP_ACTION_JOURNAL) which processes the compliant email		
SOW Annex-A	[SRS-7-168]	message. The MG_IFP_ACTION_JOURNAL action SHALL forward a copy of the compliant email message to a configurable email recipient.		
SOW Annex-A		The MG SHALL provide a content inspection policy enforcement (CIPE) capability MG_CIPE that enables the MG to manage and schedule the		
		routing of content through content filters (by MG_CIS ([SRS-7-196])) in accordance with the MG content inspection policy IEG-		
SOW Annex-A	[SPS_7_17]	C_CIP_BS_EMAIL. MG_DEX MUST offer a IPv4 and IPv6, [IETF RFC 791, 1981], and [IETF RFC 8200, 2017], over Ethernet interface 'Communications Access		
JOW AIMEA A	[515 7 17]	Services LH' on top of MG_IF_NET_LOW and MG_IF_NET_HIGH.		
SOW Annex-A		The design and functionality of MG_CIPE SHOULD conform to the NATO CIPE functional specification in [NC3A TN-1486, 2012].		
SOW Annex-A	[SRS-7-508]	If WG_CIPE does not conform to the NATO CIPE functional specification in [NC3A TN-1486, 2012], the proposed functional specification of the WG_CIPE SHALL be de-scribed in the bid response.		
SOW Annex-A	[SRS-7-171]	MG_CIPE SHALL be de-scribed in the bid response. MG_CIPE SHALL ensure that no illicit information flows exist to circumvent the enforcement of MG_CIP.		
SOW Annex-A	[SRS-7-172]	MG_CIPE SHALL ensure that enforcement actions are executed in the order as specified in IEG-C_CIP_BS_EMAIL ([SRS-7-187])		
SOW Annex-A	[SRS-7-173]	For the flow of information from MG_IF_NET_HIGH to MG_IF_NET_LOW, MG_CIPE SHALL offer an interface 'CIPE Services High to Low' that accepts information for further processing.		
SOW Annex-A	[SRS-7-174]	The interface 'CIPE Services High to Low' MUST support an operation 'Enforce HL Business Support CIPE' that enforces the policy IEG-		
		C_CIP_BS_EMAIL_HL.		
SOW Annex-A	[SRS-7-175]	The operation 'Enforce HL Business Support CIPE' MUST support the invocation of the following operations at the interface 'Content Inspection Services' ([SRS-7-204]) provided by MG CIS ([SRS-7-196]):		
		Operation 'Initialize' ([SRS-7-205]) that takes as input an identifier CIPE_CF_ID that identifies a content filter in MG_CIS;		
		• Operation 'Filter' ([SRS-7-207]) that takes as input a data object CIPE_DATA and a set of rules CIPE_DATA_RULES for processing CIPE_DATA;		
		 Operation 'Halt' ([SRS-7-209]) that takes as input an attribute CIPE_CF_ID that identifies a content filter in MG_CIS. 		
SOW Annex-A	[SRS-7-176]	MG_CIPE SHALL determine CIPE_CF_ID, CIPE_DATA and CIPE_DATA_RULES based on the policy IEG-C_CIP_BS_EMAIL_HL.		
SOW Annex-A		The operation 'Enforce HL Business Support CIPE' SHALL log and report the actions taken.		
SOW Annex-A	[SRS-7-178]	MG_CIPE SHALL inform MG_IFCPE of the outcome O_MG_CIPE_HL of the enforcement of IEG-C_CIP_BS_EMAIL_HL based on MG_CIP.		
SOW Annex-A	[SRS-7-179]	For the flow of information from MG_IF_NET_LOW to MG_IF_NET_HIGH, MG_CIPE MUST offer an interface 'CIPE Services Low to High' that		
		accepts information for further processing.		
SOW Annex-A	[SRS-7-18]	The interface 'Communications Access Services LH' MUST support an operation 'ReceiveInternalNetworkLH' on top of MG_IF_NET_LOW that		
SOW Annex-A	[SRS-7-180]	provides TCP/IP connectivity on the low domain by receiving IP traffic for processing by the MG. The interface 'CIPE Services Low to High' MUST support an operation 'Enforce LH BS CIPE' that enforces the policy IEG-C_CIP_BS_EMAIL_LH.		
SOW Annex-A	[SRS-7-181]	The operation 'Enforce LH Business Support CIPE' MUST support the invocation of the following operations at the interface 'Content		
		Inspection Services' ([SRS-7-204]) provided by MG_CIS ([SRS-7-196]): • Operation 'Initialize' ([SRS-7-205]) that takes as input an identifier CIPE_CF_ID that identifies a content filter in MG_CIS;		
		• Operation 'Filter' ([SRS-7-207]) that takes as input a data object CIPE_DATA and a set of rules CIPE_DATA_RULES for processing CIPE_DATA;		
		 Operation 'Halt' ([SRS-7-209]) that takes as input an attribute CIPE_CF_ID that identifies a content filter in MG_CIS. 		
SOW Annex-A	[SRS-7-181]	MG_CIPE SHALL determine CIPE_CF_ID, CIPE_DATA and CIPE_DATA_RULES based on the policy IEG-C_CIP_BS_EMAIL_LH.		
SOW Annex-A	[SRS-7-183]	The operation 'Enforce LH Business Support CIPE' SHALL log and report the actions taken.		
SOW Annex-A		MG_CIPE SHALL inform MG_IFCPE of the outcome O_MG_CIPE_LH of the enforcement of MG_CIP_LH based on IEG-C_CIP_BS_EMAIL_LH		
SOW Annex-A	[SRS-7-185]	([SRS-7-109]). MG_CIP SHALL be configurable.		
SOW Annex-A		MG_CIP SHALL be configurable. MG_CIP SHALL specify the actions ACTIONS that need to be executed by MG_CIS.		 <u> </u>
SOW Annex-A	[SRS-7-187]	MG_CIP SHALL specify the order in which ACTIONS need to be executed.		
SOW Annex-A	[SRS-7-188]	For each action in ACTIONS it SHALL be possible to: • Enable or disable the action.		
		Instruct MG_CIPE to ignore the outcome of the execution of the action by MG_CIS (as received from MG_CIS ([SRS-7-196])).		
		• If the outcome of the execution of the action by MG_CIS is a policy violation: instruct MG_CIPE to continue the enforcement of MG_CIP, or		
SOW Annex-A	[SRS-7-180]	to stop. It SHALL be possible to group ACTIONS per the following sub-policies:		
-on Annex-A	[50.5 / 202]	MG_CIP_EV – SMTP Envelope Validation		
		MG_CIP_AV – Attachment Validation		
		MG_CIP_LV – Label Validation		
SOW Annex-A	[SRS-7-19]	The operation 'ReceiveInternalNetworkLH' MUST support error handling as specified in [IETF RFC 7414, 2015].	+	
SOW Annex-A		MG_CIP SHALL specify the level of granularity of the outcomes O_MG_CIS ([SRS-7-205]), O_MG_CIPE_HL ([SRS-7-178]) and O_MG_CIPE_LH		
SOW Annex-A	[SRS_7-1011	([SRS-7-184]). It SHALL be possible for MG_CIS to distinguish within O_MG_CIS, O_MG_CIPE_HL and O_MG_CIPE_LH:		
SOW ANNEX-A	[202-1-121]	 The MG_CIS coapability that determined a policy violation (MG_CIS_EV [[SRS-7-274]], MG_CIS_AV ([SRS-7-240]) and MG_CIS_LV ([SRS-7- 		
		214]));		
		 Identification CIPE_CF_ID of the content filter that determined the policy violation; Identification of the action that led to policy violation; 		
		leantification of the action that led to policy violation; Reason for policy violation.		
SOW Annex-A	[SRS-7-192]	MG_CIP_EV SHALL specify the lists that are used by the Envelope Validation Content Inspection Service (MG_CIS_EV):		
		LIST_MG_CIS_EV_ORIG – list of allowable SMTP originators; LIST_MG_CIS_EV_RECIPS – list of allowable SMTP recipients.		
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matrix matrix<	SOW Annex-A	[SRS-7-196]	The MG MUST provide a content inspection services (CIS) capability MG CIS that enables MG CIPE to identify and verify content based on		
MATE OF THE INFORMATION OF MATE AND ADDR ADDR ADDR ADDR ADDR ADDR ADDR			the content inspection policy MG_CIP.		
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Displace Bit-3.1 Parkages (bit-3.4)	SOW Annex-A		MG_CIS SHALL support the message syntax of SMTP messages as defined in Simple Mail Transfer Protocol [IETF RFC 5321, 2008].		
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DOW Advance, Bio F-2021 Price Advances, Bio F-2021 Pr	SOW Annex-A	[SRS-7-210]	The operation 'Halt' MUST support the identification of a content filter based on a content filter identifier CIPE_CF_ID.	 	
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GOW Assess [885-7.20] MG, CS, LY STANAG AND support the NATO annual A SuP 47.74" Confidentially Metadatis Label System ("ISTANG 47.74]. Image: Confidential Confidential Confidential Confidential Confidential Confidential Confidencial Confidenc	SOW Annex-A	[SRS-7-218]	The subordinate Label validation capability MG_CIS_LV_STANAG SHALL ensure that a valid and allowable STANAG 4774 confidentiality label		
SOM Amera, SIG-7-21 The bulkets Support Service L1 Interface SHAL support in operation "Receiver multit" that support in exception of an email message in the message in the bulket support in the scape and the scape in the scale in the scape in the scale in the scape in the scape in the scale in the scale in the scape in the sca	SOW Annex-A	[SRS-7-219]		 	
SOM Amers, 188-7-203 MG, CS, LV, STAMAK MUST support the Mandar ADM -737 Metadata Soning, Mechanismic TSAMAK 4738, SDL, SOW Amers, 188-7-203 MG, CS, LV, STAMAK MUST support the binding profile: "Cryptographic Antelact Binding Profile" in STAM, Amers, 188-7-2021 MG, CS, LV, STAMAK MUST support the binding profile: "Cryptographic Antelact Binding Profile" in STAM, Amers, 188-7-2021 MG, CS, LV, STAMAK MUST support the binding profile: "Cryptographic Antelact Binding Profile" in STAM, Amers, 188-7-2021 MG, CS, LV, STAMAK MUST support the binding profile: "Cryptographic Antelact Binding Profile" in STAM, Amers, 188-7-2231 MG, CS, LV, STAMAK MUST apport the binding profile: "Cryptographic Antel (SSA 2000) SOW Ammers, 188-7-2241 For the confidentiality must a digital aligniture on each 39% contained in UST, MG, CS, LV, SPH, Must the discussed aligniture on each 39% contained in UST, MG, CS, LV, SPH, Must the discussed in a digital aligniture on each 39% contained in UST, MG, CS, LV, SPH, Must the discussed in a digital aligniture on each 39% contained in UST, MG, CS, LV, SPH, Must the discussed in a discussed insta to close 100, Must the aligniture on each 39% contained in UST, MG, CS, LV, SPH, Must the discussed in a discussed insta to close 100, Must apport the binding discussed insta to close 100, Must apport the binding discussed insta to close 100, Must apport the binding discussed insta to close 100, Must apport the binding discussed insta to close 100, Must apport the binding discussed insta to close 100, Must apport the binding discussed insta to close 100, Must apport the binding discussed insta discused apport the binding discussed insta to close 100, Must					
SOM Annex, 186-7221 MG, CS, LV, STAMG MUST support the binding profile "Simple Message Transport Protocol (SMP)? Binding Polite" in [STAMG 4778 802.]. SOW Annex, 186-7221 MG, CS, LV, STAMG MUST support the binding profile "Cryptographic Message Syntax (CMS) Cryptographic Artel Reinforg Polite" in [STAMG 4778 802.]. SOW Annex, 186-7221 MG, CS, LV, STAMG MUST support the binding profile "Cryptographic Message Syntax (CMS) Cryptographic Artel Reinforg Polite" in [STAMG 4778 802.]. SOW Annex, 186-7221 Arc Inte Confidentially method and the Voldeta z aging Jappin formation (EGP) Contained in LST, MG, CS, LV, STAMG SMAL be binding profile "Cryptographic Stretce (SSR 7248)]. SOW Annex, 186-7223 MG, CS, LV, STAMG SMAL be binding profile "Tomation (EGP) Contained in LST, MG, CS, LV, SPR IP winvoking the operation (SSR 7248)]. SOW Annex, 186-7233 MG, CS, LV, STAMG SMAL be bind to voldeta z aging Jappin on extreme that a valid and allowable First Line OT Ext marking is contained in LST, MG, CS, LV, SPR IP winvoking the operation (SSR 7248)]. SOW Annex, 186-7233 MG, CS, LV, JOT SMAL Ledening of the fort tomat that here extraps that the tomation is LST accurity marking is contained in LST MG, CS, LV, SPR IP winvoking the operation (SSR 7248)]. SOW Annex, 186-7233 MG, CS, LV, JOT SMAL Ledening the Inft first datatchance in the message that desc and contain a LST Security marking is non-compalant with here place in the the single succeed first the single succeed first space and replacing the place in antiticing the single succeed first space and replacing the space in antiticing the single succeed first space and replacing the place in antitici		[000 7 220]		 	
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Image: Section 2014. Image: Section 2014. Image: Section 2014. SOW Annex, 165-7280 MC, CL, LV, STAMG SMLL be able to validate adiptal signature by involving the operation. VerifyCMS (7.6.2.2.1) at the interface "hubble section". Image: Section 2014. SOW Annex, 165-7281 MC, CL, LV, STAMG SMLL be able to validate a diptal signature on act 3 pairs a scurry policy information file. (SPI) contained in UST, MC, CS, LV, SPI. Image: Section 2014. SOW Annex, 165-7281 MC, CL, SV, STAMG SMLL be able to validate a diptal signature on act 3 pairs a scurry policy information file. (SPI) contained in UST, MC, CS, LV, SPII. Image: Section 2014. SOW Annex, 165-7281 The subportion Label validation capability MC, CS, LV, SPII. Image: Section 2014. Image: Section 2014. SOW Annex, 165-7281 The subportion Label validation capability MC, CS, LV, FOIT SMLL Hensure that a valid and allowable First. Unit 0.01 Text marking is contained Image: Section 2014. SOW Annex, 165-7282. The subportion Label validation capability MC, CS, LV, FOIT SMLL Hensure that a valid and allowable First. Unit 0.71 Executing marking is contained. Image: Section 2014. SOW Annex, 165-7282. The sub-point Label validation capability MC, CS, LV, LOT SMLL Hensure marking the section 2014. Image: Section 2014. SOW Annex, 165-7283. The Text Contrain Angebie outcome to MA contrains a LOT security marking that neqanallowable security marking is compland that with th					
SOW Annex, Al (85-723) MK, C.E. L.V. STANAG STALL to able to validate a digital ignature by involving the operation. YuefyCKW (7 62.21) at the interface "Public key Confidentiality metadata block is optimated on the Confidential in UST, MG, CG, USPRI. SOW Annex, Al (85-724) The two bold wild store capability for Confidential in UST, MG, CG, USPRI. SOW Annex, Al (85-724) The two bold wild store capability MK, CG, UY, FLOT SHALL ensure that a valid and allowable first line Of Text marking is contained in the Configuration on earl SPR contained in UST, MG, CG, USPRI. SOW Annex, Al (85-7221) The subpolarities Law in URC, CG, UY, FLOT SHALL densure that a valid and allowable first line Of Text marking is contained in the configuration of the Configuration on earl SPR contained in UST, MG, CG, USPRI. SOW Annex, Al (85-7221) The sub-policy (EG, CG, PS, ELMLL, VL (TO SHALL determine that a email message as the tot following the perfax STM, MG, CG, UY, FLOT SHALL perform case interative and cormalized with trapes and trapiting the containing the CO Start MT, marking with the allowable security marking is non-complicative with a single accenter with a single acce	SOW Annex-A	[SRS-7-222]			
S0W Annex Al 95-7231 For the confidentially metadata bable joinghator or alternative(Cs that are bound to a data object CD, MUK, CS, LV, SPIR. S0W Annex Al 95-7231 MG, CS, LV, STAMAG SHALL be able to validate a digital signature on each SPIF contained in LST, MG, CS, LVSPIR. S0W Annex Al 95-7235 MG, CS, LV, STAMAG SHALL be able to validate a digital signature on each SPIF contained in LST, MG, CS, LVSPIR. S0W Annex Al 95-7236 The subordinate Label validation capability MG, CS, LV, FICT SHALL ensure that a valid and allowable First LIne Of Text marking is contained in every small metasage. S0W Annex Al 95-7231 MG, CS, LV, TOT SHALL identify the FLOT security marking of an email message as the text following the prefix S0W Annex Al 95-7231 MG, CS, LV, FLOT SHALL identify the FLOT security marking of an email message. S0W Annex Al 95-7231 MG, CS, LV, FLOT All Lifetity the FLOT security marking of an email message that does not contain a FLOT security marking is non- S0W Annex Al 95-7231 MG, CS, LV, FLOT All Lifetity the FLOT security marking and training waling the safe and th	SOW Annex-A	[SRS-7-223]			
able to verfly at less one CL against a security policy information file (SPP) contained in UST, MG, CS, LV-SPF. COM SGW AnnexA BIS-72281 MG, CS, LV, STAMAG SHALL be able to validate and SPF contained in UST, MG, CS, LV-SPF. Image: Comparison of the subordinate uble validation capability MG, CS, LV, FLOT SHALL ensure that a valid and allowable first Line Of text marking is contained in every mail message. Image: Comparison of the subordinate uble validation capability MG, CS, LV, FLOT SHALL ensure that a valid and allowable first Line Of text marking is contained in every mail message. Image: Comparison of the subordinate uble validation capability MG, CS, LV, FLOT SHALL determine that an email message that does not contained in FLOT security marking of an email message that does not contained in FLOT security marking is non-comparison the trut in a negative outcome to MG, CS, LV, FLOT SHALL perform case internative valid and gain gain and training white space and replacing sequences of white space thrutu in a negative outcome to MG, CS, LV, FLOT SHALL perform case internative valid and gain perform the subord security marking is non-compilant with the policy and return a negative outcome to MG, CS, LV, FLOT SHALL perform case internative valid and space internation and soutble security marking is non-compilant with the policy and return a negative outcome to MG, CS, LV, FLOT SHALL perform case internative valid and space internation and space internatin space internation and space internation and space inte		(696 7 994)			
SOW Annex-A BIS-72251 MG_CS_U_STANDAG SHALL be able to validate a digital signature on each SPE contained in UST_MC_CS_USPE invoking the operation VerifyAVI (7.5.2.2.2) at the interface "valid key (ryptographic Security (SISS-729)] novided by MG_PCXS (SISS-729)]. Image: Contained	SOW Annex-A	[SRS-7-224]			
SW AnnexA SS-7281 The subordinate Label validation capability MG_CDS_LV_FLOT SHALL ensure that a valid and allowable first Line Of Text marking is contained in every email message. SM SW AnnexA SS-7281 MG_CS_LV_FLOT SHALL identify the FLOT security marking of an email message as the text following the prefix. STM_MG_CS_LV_FLOT SHALL identify the fLOT security marking of an email message as the text following the prefix. SM SWW AnnexA SS-7281 The sub-policy EG_C_CP_SE_SMALL V_FLOT SHALL determine that a email message and replacing sequences of white space characters with a single space) marking when comparing the FLOT security marking with the allowable security marking in LIST MG_CSL V_FLOT SM SWW AnnexA SS-7231 The "ReceiveFamility" operation SHALL be compliant with the spine Hall Transfer Protocol (SMTP) [LTF RFC S321, 2008]. SM SWW AnnexA ISS-7231 MG_CSL V_FLOT SMALL be compliant with the spine Value and marking that is an allowable security marking to compliant with the policy and return a ngative outcome to MG_CSL V. SM SWW AnnexA ISS-7231 MG_CSL V_FLOT SMALL be compliant to MM_CSL V_V. SM SWW AnnexA ISS-7231 MG_CSL V_V. SMC_SL V_V. SMC_SL V_V. SWW AnnexA ISS-7231 MG_CSL V_V. SMC_SL V_V. SMC_SL V_V. SWW AnnexA ISS-7231. <	SOW Annex-A	[SRS-7-225]	MG_CIS_LV_STANAG SHALL be able to validate a digital signature on each SPIF contained in LIST_MG_CIS_LV-SPIF by invoking the operation		
In every email message. Image: Constraint of the security marking of an email message as the text following the prefix SWA nnex All SR5-7231 MG, CS, UY, FLOT SHLL identify the FLOT security marking of an email message as the text following the prefix SWA nnex All SR5-7231 MG, CS, UY, FLOT SHLL identify the FLOT security marking of an email message as the text following the prefix SWA nnex All SR5-7231 MG, CS, UY, FLOT SHLL identify the fLOT security marking set that des not contain a FLOT security marking is non-compliant with the policy and return a negative outcome to MG, CS, LV. SWA nnex All SR5-7231 The "ReceivetmailL" operation SHLL be compliant with the Simple Mail Transfer Protocol (SMPP) [IET RF CS 321, 2008]. SWA nnex All SR5-7231 The "ReceivetmailL" operation SHLL be compliant with the Simple Mail Transfer Protocol (SMPP) [IET RF CS 321, 2008]. SWA nnex All SR5-7231 MG, CS, UY, FLOT SHLL itermine that a reall message that contains a FLOT security marking is non-compliant with the policy and return angetive outcome to MG, CS (V. SWA nnex All SR5-7231 MG, CS, UY, FLOT SHLL determine that a reall message that contains a FLOT security marking is an allowable security marking is on-compliant with the policy and return angetive outcome to MG, CS (V. SWA nnex All SR5-7231 MG, CS, UY, FLOT SHLL ME contains a FLOT security marking that is an allowable security marking is on-compliant with the policy and return angetive outcome if the list of keywords, LST_MG, CS, UY, EYWORDS SHLL return apositive outcome if the list of keywords, LST_MG, CS, UY, EYWORDS SH			'VerifyXML' (7.6.2.2.2) at the interface 'Public Key Cryptographic Services' [[SRS7-296]) provided by MG_PKCS ([SRS-7-294]).		
SOW Annex A SR-7221 MG_CG_LV_FLOP ENEX on the first used of the first scat attanament in the message. SR MG_CG_LV_FLOP ENEX on the first used of the first scat attanament in the message. SOW Annex A SR-7223 The sub-poly EREX on the first used of the first scat attanament in the message. SOW Annex A SOW Annex A SR-7231 MG_CG_LV_FLOP ENEX on the first used of the first scat attanament in the message. SOW Annex A SOW Annex A SR-7231 MG_CG_LV_FLOP SHALL perform case insensitive and normalised whitespace and replacing sequences of white space characters with a single space) matching when comparing the FLOT security marking with the allowable security marking is in the first space of the space characters with a space characters with a space that an email message that contains a FLOT security marking is in the space matching when comparing the FLOT security marking is in allowable security marking is incompliant with the policy and return a positive outcome to MG_CG_LV_L Source (SI V_FLOT SHALL determine that an email message that contains a FLOT security marking is incompliant with the policy and return a positive outcome to MG_CG_LV_LEYWORDS SHALL ensure that a least one valid and allowable security marking is incompliant with the policy and return a positive outcome if the list of keywords, LIST_MG_CG_LV_LKEYWORDS is empty, or the header field, ST KOG_CG_LV_LKEYWORDS SHALL ensure that a least one valid and allowable keyword is contained in every email message. SoW Annex A Source_LV_LVKEYWORDS SHALL ensure the space than contains a MEYWORDS. Source_LVKEYWORDS SHALL ensure the space than contains a wealer space than contains a KEYWORDS. </td <td>SOW Annex-A</td> <td>[SRS-7-226]</td> <td>The subordinate Label validation capability MG_CIS_LV_FLOT SHALL ensure that a valid and allowable First Line Of Text marking is contained</td> <td></td> <td></td>	SOW Annex-A	[SRS-7-226]	The subordinate Label validation capability MG_CIS_LV_FLOT SHALL ensure that a valid and allowable First Line Of Text marking is contained		
STR. MG. CS. LV. FLOT. PREFIX on the first line of the first text attachment in the message. Image: Control of the second s					
SOW Annex-A [SIS-7228] The sub-point [SIG-C, CIP, BS, EMAIL, LV_FLOT SHALL determine that a menal message that does not contain a FLOT security marking is non- complaint with the point yand fetura in areguite outcome to MK, CG, LV. SOW Annex-A [SIS-7228] MG, CS, LV_FLOT SHALL perform cale intensitive and normalised withespace (stripping leading and trailing with the allowable security marking is non- complaint with the point of the complaint with the Simple Mail Transfer Protocol (SMTP) [IETF REC 5321, 2008]. SOW Annex-A [SIS-723] The TiRecelerability of tertum a negative outcome to MG, CG, LV. SOW Annex-A [SIS-723] The TiRecelerability of tertum a negative outcome to MG, CG, LV. SOW Annex-A [SIS-723] The TiRecelerability of tertum a negative outcome to MG, CG, LV. SOW Annex-A [SIS-723] The TiRecelerability marking is complaint with the policy and return a negative outcome to MG, CG, LV. SOW Annex-A [SIS-723] The Sourcite and tertum an positive outcome to MG, CG, LV. SOW Annex-A [SIS-723] The Sourcite and tertum an positive outcome if the list of keywords, ISIT_MG_CIS_LV_KEYWORDS SHALL Enser, the KEYWORDS is empty, or the header field SOW Annex-A [SIS-723] The sub-policy IEG-C, CIV_KEYWORDS SHALL Enser, the KEYWORDS is the policy. SOW Annex-A [SIS-723] The sub-policy IEG-C, CIV_KEYWORDS SHALL Enser, the KEYWORDS is and a lilowable securi	SOW Annex-A	[SKS-7-227]			
SOW Annex-A [857-723] MG_CS_LV_FIOT SHALL perform case insensitive and normalised whitespace (stripping leading and training white space and replacing tenses of white space characters with a single space) matching when comparing the FLOT security marking with the allowable security marking is nor-compliant with the annual message that contains a FLOT security marking that is not an allowable security marking is nor-compliant with the policy and return an positive outcome to MG_CS_LV_COM Image: CS_LV_FLOT SHALL determine that an email message that contains a FLOT security marking that is not an allowable security marking is compliant with the policy and return an positive outcome to MG_CS_LV_COM SOW Annex-A [857-223] MG_CS_LV_FLOT SHALL determine that an email message that contains a FLOT security marking that is an allowable security marking is compliant with the policy and return an positive outcome to MG_CS_LV_KEWORDS SHALL return a positive outcome to MG_CS_LV_KEWORDS is empty, or the header field in every email message. SOW Annex-A [857-723] MG_CS_LV_KEWORDS SHALL return were security marking of an email message as the text of the header field, STR_MG_CS_LV_KEWORDS SHALL perform the KEWWORDS security marking of an email message as the text of the header field, STR_MG_CS_LV_KEWORDS SHALL perform case insensitive and normalised whitespace (stripping leading and rating white space and replacing sequences of white space of hand text with a single space) matching wheat one comparing each of the KEYWORD security marking is and possible security marking is and replace security marking. SOW Annex-A [857-724] The sub-policy EC-C_CP_R_S_EMALL_V, KEYWORDS SHALL split the comma-separated KEYWORD is a list of KEYWORDS.	SOW Annex-A	[SRS-7-228]			
sequences of white space characters with a single space) matching when comparing the FLOT security marking with the allowable security markings in UST_MG_CS_UV_FLOT SHALL be compliant with the Simple Mail Transfer Protocol (SMTP) (ETF RFC 5321, 2008). Image: Complication of the policy and return an equite volution to MG_CS_UV_FLOT SHALL determine that an email message that contains a FLOT security marking is normalized with the policy and return an equite volutione to MG_CS_UV_FLOT SHALL determine that an email message that contains a FLOT security marking is compliant with the policy and return an positive volutione to MG_CS_UV_FEYNORDS SHALL ensure that a test an allowable security marking is compliant with the policy and return an positive volutione to MG_CS_UV_FEYNORDS SHALL ensure that a test and allowable security marking is compliant with the policy and return an positive volutione to MG_CS_UV_FEYNORDS SHALL ensure that a test at a least one valid and allowable security marking is compliant with the policy and return an positive volutione to MG_CS_UV_FEYNORDS SHALL return a positive volution of the list of keywords, UST_MG_CS_UV_FEYNORDS is empty, or the header field sTR_MG_CS_UV_FEYNORD FEASURE is empty. SOW Annex-A [S85-7238] The sub-policy EG-C_CIP as EMAIL_UV_FEYNORDS SHALL split the comma-separated KEYNORDS into a list of KEYNORD security marking with the allowable security marking is and comparised whitespace (stripping leading and trace and replacing sequences of white space characters with a single space) marking when comparing and the sub-policy EG-C_CIP as EMAIL_UV_FEYNORDS SHALL determine that a nemail message that contains a KEYWORD security marking that is not anallowable security marking is compliant with the policy. SOW Annex-A [S85-7238] The sub-policy EG-C_CIP as EMAIL_UV_KEYWORDS SHALL determine that an email message that contains a KEYWORD se	SOW Appent	[SRS_7_2201		 	
Cov markings in UST_MG_CS_LV_FLOT Image: Cov	SOW ANNEX-A	[313-7-229]			
SOW Annex-A [857-230] MG_CIS_LV_FLOT SHALL determine that an email message that contains a FLOT security marking that is not an allowable security marking is non-compliant with the policy and return an egative outcome to MG_CIS_LV. SOW Annex-A [857-231] MG_CIS_LV_FLOT SHALL determine that an email message that contains a FLOT security marking that is an allowable security marking is compliant with the policy and return an positive outcome to MG_CIS_LV. SOW Annex-A [857-7231] MG_CIS_LV_KERWORDS SHALL return a positive outcome to MG_CIS_LV_KERWORDS is sempty, or the header field in every email message.		(enc'	markings in LIST_MG_CIS_LV_FLOT		
Improve All (SR5-7-231] MG_C15_LV_FLOT SHALL determine that an email message that contains a FLOT security marking that is an allowable security marking is compliant with the policy and return an positive outcome to MG_C15_LV. SOW Annex-A SR5-7-231 The subordinate Label validation capability MG_C15_LV_KEVWORDS SHALL ensure that at least one valid and allowable keyword is contained in every email message. Image: Compliant with the policy and return an positive outcome if the list of keywords, LIST_MG_C15_LV_KEYWORDS is empty, or the header field SITR_MG_C15_LV_KEYWORDS SHALL return a positive outcome if the list of keywords, LIST_MG_C15_LV_KEYWORDS. Image: Compliant with the policy HCCC_C10_KEYWORDS SHALL ensure that at least one valid and allowable keyword is contained in every email message. SOW Annex-A SR5-7-234 MG_C15_LV_KEYWORDS SHALL return a positive outcome if the list of keywords, LIST_MG_C15_LV_KEYWORDS. Image: Compliant with the policy ECC_C10_KEYWORDS SHALL perform case insensitive and normalised whitespace for ping leading and training white space and replacing sequences of white space haracters with a single space in active of the KEYWORDS header field is non-compliant with the policy. Image: Compliant with the policy ECC_C10_KEYWORDS SHALL determine that an email message that does not contain a KEYWORD header field is non-compliant with the policy. Image: Compliant with the policy ECC_C10_KEYWORDS SHALL determine that an email message that contains a KEYWORD header field is non-compliant with the policy. Image: Compliant with the policy. Image: Compliant with the policy ECC_C10_KEYWORDS SHALL determine that an email message that contain a KEYWORD header field is non-compliant with the policy. Image: Compli					
compliant with the policy and return an positive outcome to MG_CIS_UV. Image: Compliant with the policy and return an positive outcome if the list of Keywords, LIST_MG_CIS_UV_KEYWORDS SHALL ensure that at least one valid and allowable keyword is contained in every enail message. Image: Compliant With the policy KEYWORDS SHALL ensure that at least one valid and allowable keyword is contained in every enail message. Image: Compliant With the policy KEYWORDS SHALL ensure that at least one valid and allowable keyword is contained in every enail message. SOW Annex-A [SR5-723] MG_CIS_UV_KEYWORD HEADER is empty. Image: Compliant With KEYWORD SHALL Identify the KEYWORDS SHALL split the comma-separated KEYWORDS into a list of KEYWORDS. Image: Compliant With KEYWORD SHALL Identify the KEYWORDS SHALL split the comma-separated KEYWORDS into a list of KEYWORDS. Image: Compliant With KEYWORD SHALL Split the Comma-separated KEYWORDS into a list of KEYWORDS. Image: Compliant With KEYWORD SHALL split the Comma-separated KEYWORDS. Image: Compliant With KEYWORD SHALL Split the Comma-separated KEYWORDS. Image: Compliant With KEYWORD SHALL Split the Comma-separated KEYWORDS. Image: Compliant With KEYWORD SHALL Split the Comma-separated KEYWORDS. Image: Compliant With KEYWORD SHALL Split the Compliant With Space Characters with a single space. Image: Compliant With KEYWORD SHALL Split the Compliant With A split Space Characters with a single space. Image: Compliant With KEYWORD Split			non-compliant with the policy and return a negative outcome to MG_CIS_LV.		
SOW Annex-A [SR5-7-232] The subcordinate Label validation capability MG_CIS_LV_KEYWORDS SHALL ensure that at least one valid and allowable keyword is contained in every email message. Image: Context and Con	SOW Annex-A	[SRS-7-231]			
in every email message. in every email every email message. in every email every email message. in every email every email every email every	SOW Annex-A	[SRS-7-232]			
STR, MG_CIS_LV_KEYWORD_HEADER.is empty. Image: Stramp: S		(cpc 7 222)	in every email message.		
SOW Annex-A [SR5-7-234] MC_CS_V_KEYWORD SHALL identify the KEYWORDS security marking of an email message as the text of the header field, STR_MG_CS_V_KEYWORD_HEADER. Image: STR_MG_CS_V_KEYWORD_SHALL split the comma-separated KEYWORDS into a list of KEYWORDS. SOW Annex-A [SR5-7-235] The sub-policy IEG-C_CIP_BS_EMAIL_U_KEYWORDS SHALL perform case insensitive and normalised whitespace (stripping leading and trailing white space and replacing sequences of white space characters with a single space) matching when comparing each of the KEYWORDS security marking with the allowable security markings. Image: Stripping leading and trailing white space space characters with a single space) matching when comparing each of the KEYWORDS header field is non-compliant with the policy. SOW Annex-A [SR5-7-238] The sub-policy IEG-C_CIP_BS_EMAIL_U_KEYWORDS SHALL determine that an email message that contains a KEYWORD security marking that is not an allowable security marking is compliant with the policy. SOW Annex-A [SR5-7-238] The sub-policy IEG-C_CIP_BS_EMAIL_U_KEYWORDS SHALL determine that an email message that contains a KEYWORD security marking that is not an allowable security marking is compliant with the policy. SOW Annex-A [SR5-7-239] The cub-policy IEG-C_CIP_BS_EMAIL_U_KEYWORDS SHALL determine that an email message that contains a KEYWORD security marking that is an allowable security marking is compliant with the SMTP Service Extension for Secure SMTP over Transport Layer Security [IETF RFC7817, 2016]. Image: Security marking is compliant with the SMTP Service Extension for Secure SMTP over Transport Layer Security [IETF RFC7817, 2016]. Image: Securi	SUW Annex-A	[3K3-7-233]			
SOW Annex-A [SR5-7-235] The sub-policy [EG-C_CIP_BS_EMAIL_LV_KEYWORDS SHALL split the comma-separated KEYWORDS into a list of KEYWORDS. Image: Comparison of the sub-policy [EG-C_CIP_BS_EMAIL_LV_KEYWORDS SHALL perform case insensitive and normalised whitespace (stripping leading and trailing white space and replacing sequences of white space characters with a single space) matching when comparing each of the KEYWORDS header Image: Comparison of the KEYWORDS SHALL perform case insensitive and normalised whitespace (stripping leading and security marking with the allowable security markings. SOW Annex-A [SR5-7-237] The sub-policy [EG-C_CIP_BS_EMAIL_LV_KEYWORDS SHALL determine that an email message that does not contain a KEYWORD sheader field is non-compliant with the policy. Image: Compliant with the policy. SOW Annex-A [SR5-7-238] The sub-policy [EG-C_CIP_BS_EMAIL_LV_KEYWORDS SHALL determine that an email message that contains a KEYWORD security marking its non-compliant with the policy. Image: Compliant with the policy. SOW Annex-A [SR5-7-238] The sub-policy [EG-C_CIP_BS_EMAIL_LV_KEYWORDS SHALL determine that an email message that contains a KEYWORD security marking its non-compliant with the policy. Image: Compliant with the policy. SOW Annex-A [SR5-7-239] The sub-policy [EG-C_CIP_BS_EMAIL_LV_KEYWORDS SHALL determine that an email message that contains a KEYWORD security marking its compliant with the policy. Image: Compliant with the policy. SOW Annex-A [SR5-7-249] Mc (SIS AVENEX) Image: Compliant with the solicy. Ima	SOW Annex-A	[SRS-7-234]	MG_CIS_LV_KEYWORDS SHALL identify the KEYWORDS security marking of an email message as the text of the header field,		
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SOW Annex-A [SR5-7-239] The sub-policy IEG-C_CIP_BS_EMAIL_LV_KEYWORDS SHALL determine that an email message that contains a KEYWORD security marking that is an allowable security marking is compliant with the policy. SOW Annex-A [SR5-7-24] The "ReceiveRmail!H" operation SHALL be compliant with the SMTP Service Extension for Secure SMTP over Transport Layer Security [IETF SOW Annex-A [SR5-7-24] MG_CIS_SHALL provide an attachment validation capability MG_CIS_AV. SOW Annex-A [SR5-7-24] MG_CIS_SHALL at upon on the contents of the SMTP Message body. SOW Annex-A [SR5-7-24] MG_CIS_AV.SHALL attact upon on the contents of the SMTP Message body. SOW Annex-A [SR5-7-24] MG_CIS_AV.SHALL attact upon on the contents of the SMTP Message body. SOW Annex-A [SR5-7-24] MG_CIS_AV.SHALL attact upon on the contents of the SMTP Message body. SOW Annex-A [SR5-7-24] MG_CIS_AV.SHALL attact upon on the contents of the statchment validation capabilities: • MG_CIS_AV_TPES - validation of the maximum number of attachments; • MG_CIS_AV_TPES - validation attachment types; • MG_CIS_AV_TPES - validation attachment types; • MG_CIS_AV_TARE - detection of malware. SOW Annex-A [SR5-7-243] MG_CIS_AV_TARE - detection of malware.	SOW Annex-A	[SRS-7-238]			
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SOW Annex-A [SR5-7-242] MG_CIS_AV SHALL make use of the following subordinate Attachment validation capabilities: • MG_CIS_AV_UNPCPS – validation of the maximum number of attachments; • MG_CIS_AV_UNPCPS – validation attachment types; • MG_CIS_AV_UNPCPS – validatint types; • MG_CIS_AV_UNPCPS – val			MG_CIS SHALL provide an attachment validation capability MG_CIS_AV.	 	
• MG_CIS_AV_MAX - validation of the maximum number of attachments; • MG_CIS_AV_TYPES - validation attachment types; • MG_CIS_AV_DIRTY - detection of dirty words; • MG_CIS_AV_DIRTY - detection of malware. • MG_CIS_AV_MALWARE - detection of malware. • MG_CIS_AV_STALL return a positive outcome O_MG_CIS_AV only if all of the subordinate Attachment validation capabilities • MG_CIS_AV_MALWARE - detection of malware.				 	
• MG_CLS_AV_TYPES - validation attachment types; • MG_CLS_AV_DIRTY - detection of dirty words; • MG_CLS_AV_MALWARE - detection of malware. SOW Annex-A [SRS-7-243] MG_CLS_AV_STALL return a positive outcome O_MG_CLS_AV only if all of the subordinate Attachment validation capabilities	SOW Annex-A	[SKS-7-242]			
• MG_CIS_AV_MALWARE – detection of malware. SOW Annex-A [SRS-7-243] MG_CIS_AV SHALL return a positive outcome O_MG_CIS_AV only if all of the subordinate Attachment validation capabilities Image: Comparison of the subordinate Attachment validation capabilities			 MG_CIS_AV_TYPES – validation attachment types; 		
SOW Annex-A [ISR5-7-243] MG_CIS_AV SHALL return a positive outcome 0_MG_CIS_AV only if all of the subordinate Attachment validation capabilities					
	SOW Annex-A	[SRS-7-243]			
			(MG_CS_LV_STANAG, MG_CIS_LV_FLOT and MG_CIS_LV_KEYWORDS) returns a positive outcome.		

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SOW Annex-A	[SRS-7-244]	The subordinate Attachment validation capability MG_CIS_AV_MAX SHALL verify that an email message does not exceed a maximum number of attachments.			
SOW Annex-A	[SRS-7-245]	MG_CIS_AV_MAX SHALL determine the number of attachments included within a message, recursively including attachments in attached			
SOW Annex-A	[SRS=7-246]	messages. MG_CIS_AV_MAX SHALL determine that an email message that contains the configured maximum number of attachment, or less, is			
		compliant with the policy.			
SOW Annex-A	[SRS-7-247]	MG_CIS_AV_MAX SHALL determine that an email message that contains more than the configured maximum number of attachment is non- compliant with the policy and return a negative outcome to MG_CIS_AV;			
SOW Annex-A	[SRS-7-248]	The subordinate Attachment validation capability MG_CIS_AV_TYPES SHALL ensure that an email message only contains allowed attachment			
	(686 7 8 40)	types.			
SOW Annex-A	[SRS-7-249]	MG_CIS_AV_TYPES SHALL determine the <i>declared</i> media types as those contained in the Content-Type header fields, within the email message.			
SOW Annex-A	[SRS-7-25]	The "ReceiveEmailLH" operation SHALL be compliant with the SMTP Service Extension for Delivery Status Notifications [IETF RFC 3461, 2003].			
SOW Annex-A	[SRS=7=250]	MG CIS AV TYPES SHALL determine the disposition media types, as derived from the filename parameter in the Content-Disposition header			
		fields, within the email message.			
SOW Annex-A SOW Annex-A		MG_CIS_AV_TYPES SHALL return a positive outcome if the list of media types, LIST_MG_CIS_AV_TYPES, is empty. MG_CIS_AV_TYPES SHALL determine an email message is compliant with the policy, if all the <i>disposition</i> media types are present in the			
SOW Annex-A	[3K3=7=233]	allowed list of media types, LIST_MG_CIS_AV_TYPES.			
SOW Annex-A	[SRS-7-254]	MG_CIS_AV_TYPES SHALL determine an email message is non-compliant with the policy, if one or more the disposition media types are not			
SOW Annex-A	[SRS-7-255]	present in the allowed list of media types, LIST_MG_CIS_AV_TYPES. MG_CIS_AV_TYPES SHALL determine the <i>analysed</i> media types from an analysis of the contents of the email attachments.			
SOW Annex-A		MG_CIS_AV_TYPES SHALL determine an email message is non-compliant with the policy it is unable to determine an analysed media type for			
SOW Annex-A	[SRS-7-257]	one or more attachments. MG_CIS_AV_TYPES SHALL determine an email message is compliant with the policy, if all the <i>analysed</i> media types are present in the			
		allowed list of media types, LIST_MG_CIS_AV_TYPES.			
SOW Annex-A	[SRS-7-258]	MG_CIS_AV_TYPES SHALL determine an email message is non-compliant with the policy, if one or more the <i>analysed</i> media types are not			
SOW Annex-A	[SRS-7-259]	present in the allowed list of media types, LIST_MG_CIS_AV_TYPES. The sub-policy IEG-C_CIP_BS_EMAIL_AV_TYPES SHALL determine the <i>container</i> media types (e.g. zip), as derived from the filenames and			
		binary analysis of the files found within container email attachments.			
SOW Annex-A	[SRS-7-26]	The "ReceiveEmailLH" operation SHALL be compliant with the Extensible Message Format for Delivery Status Notifications [IETF RFC 3464, 2003].			
SOW Annex-A	[SRS-7-260]	MG_CIS_AV_TYPES SHALL determine an email message is compliant with the policy, if all the container media types are present in the			
		allowed list of media types, LIST_MG_CIS_AV_TYPES.			
SOW Annex-A	L3K3-7-201]	MG_CIS_AV_TYPES SHALL determine an email message is non-compliant with the policy, if one or more the container media types are not present in the allowed list of media types, LIST_MG_CIS_AV_TYPES.			
SOW Annex-A	[SRS-7-262]	The subordinate Label validation capability MG_CIS_AV_DIRTY SHALL ensure an email message does not contain any of a configured set of			
SOW Annex-A	[SRS-7-263]	words or phrases (LIST_MG_CIS_AV_DIRTYWORDS). MG_CIS_AV_DIRTY SHALL return a positive outcome if the list of dirty words, LIST_MG_CIS_AV_DIRTYWORDS, is empty.			
SOW Annex-A		The sub-policy IEG-C_CIP_BS_EMAIL_AV_DIRTY SHALL inspect each of the email attachments, including the message body, for occurrences of	1		
SOW Annex-A	[SRS_7-2651	any of the dirty words/phrases (LIST_MG_CIS_AV_DIRTYWORDS). The sub-policy IEG-C_CIP_BS_EMAIL_AV_DIRTY SHALL recursively inspect each of the email message attachments for occurrences of any of			
		The sub-policy IEG-C_CIP_BS_EMAIL_AV_DIRTY SHALL recursively inspect each of the email message attachments for occurrences of any of the dirty words/phrases (LIST_MG_CIS_AV_DIRTYWORDS).			
SOW Annex-A	[SRS-7-266]	The sub-policy IEG-C_CIP_BS_EMAIL_AV_DIRTY SHALL perform case insensitive and normalised whitespace (stripping leading and trailing			
		white space and replacing sequences of white space characters with a single space) matching when searching for each of the dirty words/phrases in the message body/attachment.			
SOW Annex-A	[SRS-7-267]	The sub-policy IEG-C_CIP_BS_EMAIL_AV_DIRTY SHALL determine that an email message that contains at least one of the dirty word/phrases			
SOW Annex-A	[SRS-7-268]	(LIST_MG_CIS_AV_DIRTYWORDS) is non-compliant with the policy. The sub-policy IEG-C_CIP_BS_EMAIL_AV_DIRTY SHALL determine that an email message that does not contains any of the dirty			
		words/phrases in LIST_MG_CIS_AV_DIRTYWORDS is compliant with the policy.			
SOW Annex-A	[SRS-7-269]	The subordinate Attachment validation capability MG_CIS_AV_MALWARE SHALL ensure an email message does not contain any known malware.			
SOW Annex-A	[SRS-7-27]	The "ReceiveEmailLH" operation SHALL audit the following information for each email received:			
		received time;			
		 originator; recipients; 			
		• subject; and			
SOW Annex-A	[SRS-7-270]	• subject; and • message identifier.			
SOW Annex-A	-	subject; and message identifier. The sub-policy IEG-C_CIP_BS_EMAIL_AV_MALWARE SHALL scan each attachment within the email message for malware using the current set of malware definitions (LIST_MG_CIS_AV_MALWARE DEFINITIONS).			
SOW Annex-A SOW Annex-A	-	subject; and message identifier. The sub-policy IEG-C_CIP_BS_EMAIL_AV_MALWARE SHALL scan each attachment within the email message for malware using the current set of malware definitions (LIST_MG_CIS_AV_MALWARE SHALL determine that an email message that contains at least one attachment that is			
SOW Annex-A	[SRS-7-272]	subject; and message identifier. The sub-policy IEG-C_CIP_BS_EMAIL_AV_MALWARE SHALL scan each attachment within the email message for malware using the current set of malware definitions (LIST_MG_CIS_AV_MALWARE DEFINITIONS).			
SOW Annex-A	[SRS-7-272]	subject; and message identifier. The sub-policy IEG-C_CIP_BS_EMAIL_AV_MALWARE SHALL scan each attachment within the email message for malware using the current set of malware definitions (LIST_MG_CIS_AV_MALWARE SHALL scan each attachment within the email message for malware using the current set of malware definitions (LIST_MG_CIS_AV_MALWARE SHALL determine that an email message that contains at least one attachment that is reported to contain malware is compliant with the policy. The sub-policy IEG-C_CIP_BS_EMAIL_AV_MALWARE SHALL determine that an email message that does not contains any attachment that is reported to contain malware is compliant with the policy.			
SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-7-272] [SRS-7-273] [SRS-7-274]	 subject; and wessage identifier. message identifier. message identifier. message identifier. message identifier. message identifier. message identifier. The sub-policy IEG-C_CIP_BS_EMAIL_AV_MALWARE SHALL scan each attachment within the email message for malware using the current set of malware definitions (LIST_MG_CIS_AV_MALWARE SHALL determine that an email message that contains at least one attachment that is reported to contain malware is non-compliant with the policy. The sub-policy IEG-C_CIP_BS_EMAIL_AV_MALWARE SHALL determine that an email message that does not contains any attachment that is reported to contain malware is compliant with the policy. MG_CIS_SHALL provide an SMTP envelope validation capability MG_CIS_EV that comprises a set of content filters.			
SOW Annex-A	[SRS-7-272] [SRS-7-273] [SRS-7-274] [SRS-7-275]	subject; and message identifier. The sub-policy IEG-C_CIP_BS_EMAIL_AV_MALWARE SHALL scan each attachment within the email message for malware using the current set of malware definitions (LIST_MG_CIP_BS_EMAIL_AV_MALWARE SHALL scan each attachment within the email message for malware using the current set of malware definitions (LIST_MG_CIP_BS_EMAIL_AV_MALWARE SHALL determine that an email message that contains at least one attachment that is reported to contain malware is non-compliant with the policy. MG_CIS_EVSIALL actupone on the contents of the SMTP emscage envelope. MG_CIS_EV SHALL actupon on the contents of the SMTP envelope. MG_CIS_EV SHALL make use of the following subordinate SMTP envelope validation capabilities:			
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-7-272] [SRS-7-273] [SRS-7-274] [SRS-7-275]	• subject; and • message identifier. The sub-policy IEG-C_CIP_BS_EMAIL_AV_MALWARE SHALL scan each attachment within the email message for malware using the current set of malware definitions (LIST_MG_CIS_AV_MALWARE SHALL scan each attachment within the email message for malware using the current set of malware definitions (LIST_MG_CIS_AV_MALWARE SHALL determine that an email message that contains at least one attachment that is reported to contain malware is comcompliant with the policy. The sub-policy IEG-C_CIP_BS_EMAIL_AV_MALWARE SHALL determine that an email message that does not contains any attachment that is reported to contain malware is compliant with the policy. MG_CIS_SHALL provide an SMTP envelope validation capability MG_CIS_EV that comprises a set of content filters. MG_CIS_EV SHALL act upon on the contents of the SMTP message envelope. MG_CIS_EV SHALL make use of the following subordinate SMTP envelope validation capabilities: • MG_CS_EV_ORIG - validation of the SMTP originator;			
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-7-272] [SRS-7-273] [SRS-7-274] [SRS-7-275] [SRS-7-276]	 subject; and message identifier. The sub-policy IEG-C_CIP_BS_EMAIL_AV_MALWARE SHALL scan each attachment within the email message for malware using the current set of malware definitions (LIST_MG_CIS_AV_MALWARE SHALL scan each attachment within the email message for malware using the current set of malware definitions (LIST_MG_CIS_AV_MALWARE SHALL determine that an email message that contains at least one attachment that is reported to contain malware is non-compliant with the policy. The sub-policy IEG-C_CIP_BS_EMAIL_AV_MALWARE SHALL determine that an email message that does not contains any attachment that is reported to contain malware is compliant with the policy. MG_CIS_EV SHALL act upon on the contents of the SMTP message envelope. MG_CIS_EV SHALL make use of the following subordinate SMTP envelope validation capability MG_CIS_EV SHALL make use of the following subordinate SMTP envelope validation capabilities: MG_CIS_EV_SHALL make use of the following subordinate SMTP envelope validation capabilities: MG_CIS_EV_SUP_CIP validation of the SMTP originator; MG_CIS_EV_SHALL return a positive outcome OMG_CIS_EV only if all of the subordinate Envelope validation capabilities (MG_CS_EV_CRIG 			
SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A SOW Annex-A	[SRS-7-272] [SRS-7-273] [SRS-7-274] [SRS-7-275] [SRS-7-276] [SRS-7-277]	• subject; and • message identifier. The sub-policy IEG-C_CIP_BS_EMAIL_AV_MALWARE SHALL scan each attachment within the email message for malware using the current set of malware definitions (UST_MG_CIS_AV_MALWARE SHALL scan each attachment within the email message for malware using the current set of malware definitions (UST_MG_CIS_AV_MALWARE SHALL determine that an email message that contains at least one attachment that is reported to contain malware is comcompliant with the policy. The sub-policy IEG-C_CIP_BS_EMAIL_AV_MALWARE SHALL determine that an email message that does not contains any attachment that is reported to contain malware is compliant with the policy. MG_CIS_SHALL provide an SMTP envelope validation capability MG_CIS_EV that comprises a set of content filters. MG_CIS_EV SHALL act upon on the contents of the SMTP message envelope. MG_CIS_EV SHALL make use of the following subordinate SMTP envelope validation capabilities: • MG_CIS_EV_ORIG - validation of the SMTP recipients; MG_CIS_EV_RECIP - validation of the SMTP recipients; MG_CIS_EV_RECIP_value a positive outcome OMG_CIS_EV only if all of the subordinate Envelope validation capabilities (MG_CS_EV_ORIG and MG_CIS_EV_RECIP_return a positive outcome.			
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SOW Annex-A [NS-7-380] The operation "Configure Data Exchange Services' MUST provide the capability to change, capture, duplicate, backup or restore the Image: Configuration of MG_DEX. SOW Annex-A [NS-7-380] The "ForwardEmailts" operation SHALL allow the use the best match when determining the destination host from local configuration. Image: Configure Data Exchange Services' SHALL support SMC Messages of the following types: - Secure Shell (SM, IJET RFC 4233, 2006)]; - Hypertext Transport Protocol (NBS); - Hypertext Transport Protocol (NBS); - Hypertext Transport Protocol (NBS); - Hypertext Transport Protocol (NBS); - Hypertext Transport Protocol (SSS, FC-195)] and MG_PKCS (SSS-7-294)]. Image: Configure Data Exchange Services' SNALL support an operation "Configure Protection Services' MUST provide the capability to change, capture, duplicate, backup or restore the configuration and anagement" MUST support an operation "Configure Protection Services' SNALL support SMC Messages of the following types: - Secure Shell (SH, IJET RFC 4233, 2006)]; - Hypertext Transport Protocol (NESS); - Hoperation Configure Protection Services' SNALL support SMC Messages of the following types: - Secure Shell (SH, IJET RFC 4233, 2006)]; - Hypertext Transport Protocol (NESS for MUST provide the capability to manage filters for MG_CIS. Image: Configure Data Stransport Protocol (NESS); - Hypertext Transport Protocol (NESS for MUST provide the capability to manage filters for MG_CIS. Image: Configure Data Stransport Protocol (NESS); - Hypertext Transport Protocol (NESS for MUST provide the capability to manage and respont to cyber-related and caling and removal; - Hypertext Transport Protocol (NESS for MUST provide	SOW Annex-A	[SRS-7-358]	The interface 'SMC Configuration Management' MUST support an operation 'Configure Data Exchange Services' that provides the capability			
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SOW Annex-A [SR5-7-360] The operation 'Configure Data Exchange Services' SHALL support SMC Messages of the following types: • Secure Shell (SSH, [IET FRF 4253, 2006]); • Remote Desktop Protocol (RDP); • Hypetrox Transport Protocol Message (HTTP, [IET RF C 7230, 2014]). Image: Configure and manage MC (SI (SR5-7-301)) SOW Annex-A SR5-7-361 The interface 'SMC Configuration Management' MUST support an operation 'Configure Protection Services' that provides the capability to configure and manage MC (SI (SR5-7-301)). Image: Configure and manage MC (SI (SR5-7-301)). SOW Annex-A SR5-7-3631 The operation 'Configure Protection Services' MUST provide the capability to change, capture, duplicate, backup or restore the configuration and MC (SI and MC (SR5 -7-303)). Image: Configure and manage MC (SI (SR5-7-304)). SOW Annex-A SR5-7-3631 The operation 'Configure Protection Services' MUST provide the capability to change, capture, duplicate, backup or restore the configuration and the operation 'Configure Protection Services' MUST provide the capability to manage filters for MG_CIS. Image: Configure Protection CIDP); • Remote Desktop Protocol (MCP); • Hypertext Transport Protocol Message (HTTP, [IET RFC 7230, 2014]). Image: Configure Protection Services' MUST provide the capability to manage filters for MG_CIS. Image: Configure Protection Content filters. SOW Annex-A [SR5-7-366] The management of filters for MG_CIS SHALL include: • Loading and removal; • Validation against the corresponding XML			configuration of MG_DEX.			
- secure Shell (SSH, JETF RFC 4253, 2006)]; - Remote Desktop Protocol (RDP); - Hypertext Transport Protocol Message (HTP, [ETF RFC 7230, 2014)]. - SOW Annex-A [SR5-7-361] The interface 'SMC Configuration Management' MUST support an operation 'Configure Protection Services' that provides the capability to configure and manage MG_CS (SR5-7-196)] and MG_PKCS (SR5-7-294)]. - SOW Annex-A [SR5-7-362] The operation 'Configure Protection Services' SHALL support SMC Messages of the following types: - Secure Shell (SSH, JETF RFC 4253, 2006)]; - Hypertext Transport Protocol Message (HTP, JETF RFC 7230, 2014)]. - SOW Annex-A [SR5-7-363] The operation 'Configure Protection Services' SHALL support SMC Messages of the following types: - Secure Shell (SSH, JETF RFC 4253, 2006)]; - Hypertext Transport Protocol Message (HTP, JETF RFC 7230, 2014)]. - SOW Annex-A [SR5-7-363] The operation 'Configure Protection Services' MUST provide the capability to manage filters for MG_CIS. - SOW Annex-A [SR5-7-366] The management of filters for MG_CIS SHALL include: - Installation and de-installation of content filters; - Updating of content filters; - Updating of content filters; - Validation agains the corresponding XML Schema, - Validation of any contained XML Digital Signature. -	SOW Annex-A	[SRS-7-36]	The "ForwardEmailLH" operation SHALL allow the use the best match when determining the destination host from local configuration.			
• Remote Desktop Protocol (RDP): • Hypertext Transport Protocol Message (HTTP, [ETF RFC 7230, 2014)]. SOW Annex-A [SR5-7-361] The Interface 'SMC Configuration Management' MUST support an operation 'Configure Protection Services' that provides the capability to configure and manage MG, CIS ([SR5-7-1961]) and MG_PKCS. Image MG, CIS (ISR5-7-1961]) and MG_PKCS. SOW Annex-A [SR5-7-362] The operation 'Configure Protection Services' SHALL support SMC Messages of the following types: Image MG, CIS (ISR5-7-1961]) SOW Annex-A [SR5-7-363] The operation 'Configure Protection Services' SHALL support SMC Messages of the following types: Image MG, CIS (ISR5-7-1961) SOW Annex-A [SR5-7-364] The operation 'Configure Protection Services' MUST provide the capability to manage filters for MG_CIS. Image MILE Proteone Desktop Protocol (RDP); • Hypertext Transport Protocol (RDP); • Hypertext Transport Protocol (SDP); • Hypertext Transport Protocol (SDP); • Numex-A [SR5-7-364] The operation 'Configure Protection Services' MUST provide the capability to manage filters for MG_CIS. Image MILE Proteone Desktop Protocol (RDP); • Updating of content filters: • Updating of content filters; • Updating of content filters; • Updating and sins the corresponding XML Schema, • Validation and sins the corresponding XML Schema, • Validation and sins the corresponding XML Schema, • Validation of AND (SMCT 2D SHALL p	SOW Annex-A	[SRS-7-360]				
Image: Hypertext Transport Protocol Message (HTTP, [IETF RFC 7230, 2014]). Image: Hypertext Transport Protocol Message (HTTP, [IETF RFC 7230, 2014]). SOW Annex-A [SR5-7-361] The interface 'SMC Configuration Management' MUST support an operation 'Configure Protection Services' that provides the capability to configure and manage MG. (SI (SR5-7-1961)) and MG_PKCS. [SR5-7-294]). SOW Annex-A [SR5-7-362] The operation 'Configure Protection Services' SHALL support SMC Messages of the following types: secure Shell (SSH, [IETF RFC 4233, 2006]); Hennote Desktop Protocol (HOP); Hypertext Transport Protocol Message (HTTP, [IETF RFC 7230, 2014]). SOW Annex-A (SR5-7-363] The operation 'Configure Protocol Message (HTTP, [IETF RFC 7230, 2014]). SOW Annex-A (SR5-7-363] The operation 'Configure Protocol Message (HTTP, [IETF RFC 7230, 2014]). Image: Som Annex-A (SR5-7-365] The management of filters for MG_CIS SHALL include: Image: Image: Som Annex-A (SR5-7-366] The management of Configure Protocol Message (MTTP, [IETF RFC 7230, 2014]). Som Annex-A (SR5-7-366] The management of Configure Protocol Message (MTTP, [IETF RFC 7230, 2014]). SOW Annex-A (SR5-7-366] The management of Configure Protocol Message (MTTP, [IETF RFC 7230, 2014]). Image: Som Annex-A (SR5-7-366] <ld>Image: Som Annex-A (SR5-7-366] <ld>Image: Som Annex-A (SR5-7-366]</ld> <ld>Image: Som Annex-A (SR5-7-366] <ld>Image: Som Annex-A (SR5-7-366] <ld>Image: Som Ann</ld></ld></ld></ld>						
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the production of the second	SOW Annex-A	[SRS-7-370]				
SOW Annex-A [IS85-7-371] The operation 'Assess' SHALL be able to support analysis and evaluation of an attack.	SOW Annex-A	[SRS-7-371]				

CONT	(000 7 070)	The second state of the se	-	,
SOW Annex-A	[SRS-7-372]	The operation 'Assess' SHALL be able to support the aggregation of cyber-related data (e.g. logs from MG_IFCPE, MG_CIPE and MG_PKCS) to a central repository to facilitate proper analysis.		
SOW Annex-A	[SRS-7-373]	The interface 'Cyber Defence' MUST support an operation 'Respond' that provides the capability to dynamically mitigate the risk identified by a suspected attack/fault.		
SOW Annex-A	[SRS-7-374]	The operation 'Respond' SHALL be able to support the controlling of traffic flows for the purpose of stopping or mitigating an attack or fault.		
SOW Annex-A	[SRS-7-375]	The controlling of traffic flow by MG_MGMT_CD SHALL include:		
		Termination; Throttling to a certain level of bandwidth or with a certain delay; Redirection.		
SOW Annex-A	[SRS-7-376]	The interface 'Cyber Defence' MUST support an operation 'Recover' that provides the capability to take the required action to recover from		
SOW Annex-A	[SRS-7-377]	an attack/fault and restore the components of the MG that were affected by the attack/fault. MG_MGMT MUST provide a management capability MG_MGMT_EM that enables the management of events.		
SOW Annex-A SOW Annex-A		MG_MGMT_EM SHALL collect events and support the forwarding of events to the EMS. MG_MGMT_EM SHOULD support monitoring based on the Microsoft System Center Operations Manager (SCOM).		
SOW Annex-A		The "ForwardEmailLH" address rewriting SHALL allow the rewriting of both the local-part and the domain components of the email address.		
SOW Annex-A	[SRS-7-380]	MG_MGMT_EM SHALL support SNMP v3 [IETF RFC 3412, 2002] and the Mail Monitoring MIB [IETF RFC 2789, 2000]		
SOW Annex-A	[SRS-7-381]	MG_MGMT_EM SHALL provide a toolset which allows MG Administrators to define, filter, correlate and group events according to their context, criticality, source and impacts.		
SOW Annex-A		MG_MGMT_EM SHALL provide an event correlation toolset that can be either customizable or adaptive to detect normal and abnormal behaviour patterns.		
SOW Annex-A SOW Annex-A		MG_MGMT_EM SHALL provide the capability to examine recorded historical logs and archives. MG_MGMT_EM SHALL support the correlation of requests and responses in order to track all responses (or faults) with the correct request		
SOW Annex-A	[SRS-7-386]	for information access. MG_MGMT_EM SHALL provide an event management toolset which allows MG Administrators to customize the building and saving of		
		reports. The event management toolset SHALL support the provision of visibility on usage patterns over daily, monthly and variable periods.		
SOW Annex-A SOW Annex-A	[SRS-7-388]	The event management toolset SHALL support trend and abnormal behaviour analysis.		
SOW Annex-A	[SRS-7-389]	MG_MGMT_EM SHALL be able to generate reports of the following types: • SLA compliance reports; • Error/exception reports; • Service usage reports;		
SOW Annex-A	[SRS-7-39]	The Business Support Service LH Interface SHALL support an operation "ReceiveEmailHL" that supports the reception of an email message from the high domain.		
SOW Annex-A		Other customizable reports based on captured metrics which can be filtered and sorted based on various criteria.		
SOW Annex-A SOW Annex-A		MG_MGMT_EM SHALL pass outgoing SMC Messages to interface 'Core Services Management' ([SRS-7-60]) for further processing. MG_MGMT_EM MUST offer an interface 'Event Management' that generates and forwards 'SMC Messages' in support of the operations		
SOW Annex-A	[SRS-7-393]	'Log' (7.7.1.1), 'Alert' (7.7.1.2) and 'Report' (7.7.1.3). The Interface 'Event Management' MUST support an operation 'Log' that provides the capability to record events that occur in software, or messages between components.		
SOW Annex-A		The operation 'Log' SHALL support writing log messages to a log file.		
SOW Annex-A	[SRS-7-395]	The operation 'Log' MUST provide the capability to log request and response attributes. These include: • Time-stamp; • Source and target address(es); • URL; • Operation; • Size:		
COM Appen A	[CDC 7 206]	Unique request id (extracted from the request/response or automatically generated by MG_MGMT_EM). The exception (inc) MICT acquire the exception of the statement of the MTD headers and CMTD headers		
SOW Annex-A SOW Annex-A		The operation 'Log' MUST provide the capability to log attributes extracted from the SMTP headers and SMTP body. The operation 'Log' MUST provide the capability to selectively log whole messages based on pre-configured criteria or filter (e.g. policy	-	
SOW Annex-A	[SRS-7-398]	based). The operation 'Log' SHALL support one or more SMC Messages of the following types:		
		• Syslog [IETF RFC 5424, 2009]; • HTTP Message [IETF RFC 7230, 2014].		
SOW Annex-A	[282-1-388]	The interface 'Event Management' MUST support an operation 'Alert' that provides the capability to generate an alert event when the acceptable threshold for a service has been reached, or is approached within a certain range.		
SOW Annex-A	[SRS-7-4]	MG_IF_NET_HIGH SHALL support an operation 'ForwardHigh' that forwards (transfer-out) data that has been processed by the MG to the high domain.		
SOW Annex-A		The "ReceiveEmailHL" operation SHALL be compliant with the Simple Mail Transfer Protocol (SMTP) [IETF RFC 5321, 2008].		
SOW Annex-A	[SRS-7-400]	The operation 'Alert' SHALL be able to support the generation of an alert of type 'Warning' that indicates it is necessary to take action in order to prevent an exception occurring.		
SOW Annex-A	[SRS-7-401]	The operation 'Alert' SHALL be able to support the generation of an alert of type 'Exception' that indicates that a given service is operating		
SOW Annex-A		below the normal predefined parameters/indicators. The operation 'Alert' SHALL support SMC Messages of the type SNMP v3 [IETF RFC, 3412, 2002].		
SOW Annex-A	[SRS-7-403]	The interface 'Event Management' MUST support an operation 'Report' that provides the capability to generate reports in support of compliance, auditing, billing and service value determination.		
SOW Annex-A SOW Annex-A	[SRS-7-404] [SRS-7-405]	The operation 'Report' SHALL support SMC Messages of the type SNMP v3 [IETF RFC 3412, 2002]. MG_MGMT MUST provide a management capability MG_MGMT_PM that enables the management of the performance and capacity of the		
SOW Annex-A	[SRS-7-406]	MG. MG_MGMT_PM SHALL provide customizable dashboards for monitoring selected statistics and metrics for MG services.		
SOW Annex-A SOW Annex-A		MG_MGMT_PM SHALL pass outgoing SMC Messages to interface 'Core Services Management' ([SRS-7-60] for further processing, MG_MGMT_PM MUST offer an interface 'Performance Management' that generates and forwards 'SMC Messages' in support of the		
		operations 'Monitor' (7.7.8.1.1), 'Meter' (7.7.8.1.2) and 'Track Messages' (7.7.8.1.3.		
SOW Annex-A	[SRS-7-409]	The interface 'Performance Management' MUST support an operation 'Monitor' that provides the capability to observe and track the operations and activities of end users (services) on the MG.		
SOW Annex-A	[SRS-7-41]	The "ReceiveEmailHL" operation SHALL be compliant with the SMTP Service Extension for Secure SMTP over Transport Layer Security [IETF RFC 7817, 2016].		
SOW Annex-A	[SRS-7-410]	The operation 'Monitor' SHALL support the real-time monitoring of MG services against expected KPI, SLA or other metric thresholds as		
SOW Annex-A	[SRS-7-411]	configured. The operation 'Monitor' SHALL support the monitoring service faults and exceptions.		
SOW Annex-A SOW Annex-A	[SRS-7-412]	The operation 'Monitor' SHALL support SMC Messages of the type SNMP v3 [IETF RFC 3412, 2002]. The interface 'Performance Management' MUST support an operation 'Meter' that provides the capability to measure levels of resource		
		utilization consumed by service subscribers.		
SOW Annex-A SOW Annex-A		The operation 'Meter' SHALL support the storing of measured data for the purpose of summarizing and analysis. The operation 'Meter' SHALL provide the capability to collect and present the statistics on service utilisation broken down by end user or		
SOW Annex-A	[SRS-7-416]	system. The operation 'Meter' SHALL support the collection of statistics for a given end user or system or group of end user or system over specified periods of time.		
SOW Annex-A		The operation 'Meter' SHALL support SMC Messages of the type SNMP v3 [IETF RFC 3412, 2002].		
SOW Annex-A		The interface 'Performance Management' MUST support an operation 'Track Messages' that provides the capability to track, monitor and log all message routing and service invocation activities. The operation 'Track Messages' SHALL provide the capability to track, monitor, and log all SMTP messages from the high domain to the low		
SOW Annex-A		Ine operation Track Messages Shall provide the capability to track, monitor, and log all SMTP messages from the high domain. domain. The "ReceiveEmailHL" operation SHALL be compliant with the SMTP Service Extension for Delivery Status Notifications [IETF RFC 3461, 2003].		
SOW Annex-A	[SRS-7-420]	The operation 'Track Messages' SHALL provide the capability to track, monitor, and log all delivery reports and status notifications from the		
		low domain to the high domain.		
SOW Annex-A		The operation 'Track Messages' SHALL provide the capability to track, monitor, and log all SMTP messages from the low domain to the high domain.		
SOW Annex-A	[SRS-7-422]	The operation 'Track Messages' SHALL provide the capability to track, monitor, and log all delivery reports and status notifications from the high domain to the high domain.		
SOW Annex-A		The operation 'Track Messages' SHALL support SMC Messages of the type SNMP v3 [IETF RFC 3412, 2002].		
SOW Annex-A SOW Annex-A	[SRS-7-425]	The MG SHALL be evaluated to EAL4(+) based on the Protection Profile defined in Section 8. The MG SHALL include malware/virus protection for its server.		
SOW Annex-A SOW Annex-A		The MG malware/virus protection SHALL be maintained/updated from the NATO Service Operation Centre (SOC). The MG SHALL protect components and areas of main memory from being directly accessed (without that access being mediated by the		
SOW Annex-A		operating system) by untrusted subjects. The MG SHALL protect any other function of the underlying platform from being used by untrusted subjects in a way that would violate the		
		security policy of the operating system.		
SOW Annex-A	[SKS-7-43]	The "ReceiveEmailHL" operation SHALL be compliant with the Extensible Message Format for Delivery Status Notifications [IETF RFC 3464, 2003].		

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SOW Annex-A	[SRS-7-430]	The MG SHALL provide mechanisms that control a user's logical access to the Mail Guard and to explicitly deny access to specific users when appropriate.			
SOW Annex-A	[SRS-7-431]	The MG SHALL be capable of maintaining protection policy enforcement if it is unable to communicate with the Policy Enforcement module			
SOW Annex-A	[SRS-7-432]	which provided it the policy. The MG SHALL enable the enforcement of information flows email messages.			
SOW Annex-A	[SRS-7-433]	The MG SHALL enable the enforcement of content inspection of email messages.			
SOW Annex-A	[SRS-7-434]	The MG SHALL validate the origin, integrity and binding [STANAG 4778] of a confidentiality label [STANAG 4774] to a data object before it is used.			
SOW Annex-A	[SRS-7-435]	The MG Data Protection Module SHALL provide a NATO approved cryptographic sub-component with NATO-approved methods for key			
		management (i.e.; generation, access, distribution, destruction, handling, and storage of keys), and for cryptographic operations (i.e.; encryption, decryption, signature, hashing, key exchange, and random number generation services) as described in [NAC AC/322-			
SOW Annex-A	[SPS-7-426]	D(2007)0002-REV1, 2015]. The MG Data Protection Module cryptographic sub-component SHALL be validated to at least FIPS 140-2 Level 2 [FIPS 140-2, 2001], or			
		otherwise verified to an equivalent level of functionality and assurance by a NATO nation COMSEC authority.			
SOW Annex-A	[SRS-7-437]	The MG Data Protection Module SHALL provide capability to protect against disclosing or transmitting information in violation of the policy.			
SOW Annex-A		The MG SHALL provide mechanisms that mitigate attempts to exhaust its resources.			
SOW Annex-A	[SRS-7-439]	The MG Data Protection Module SHALL provide capability to protect against gaining inappropriate access to one or more networks, endpoints, or services, such as through transmitting malicious executable code, scripts, or commands.			
SOW Annex-A	[SRS-7-44]	The Business Support Service HL Interface SHALL support an operation "ForwardEmailLH" that supports the transfer of an email message to			
SOW Annex-A	[SRS-7-440]	the high domain. The MG SHALL ensure that is protection policy information is transmitted to the Policy Enforcement Module in a secure and timely manner			
SOW Annex-A	[SRS-7-441]	so that there is assurance that the correct policy is being enforced. The MG SHALL ensure that communications are not subject to unauthorized modification or disclosure.			
SOW Annex-A		The MG SHALL provide a means to ensure that administrators are not communicating with some other entity pretending to be the MG when			
SOW Annex-A	[SRS-7-443]	supplying identification and authentication data. The MG SHALL validate the identity of other peer entities prior to distributing data to them.			
SOW Annex-A SOW Annex-A		The MG SHALL provide a means to detect and reject the replay of authentication data as well as other security data and attributes. The MG SHALL use a NPKI provided device certificate to validate its identity to other peer entities.			
SOW Annex-A	[SRS-7-446]	The MG SHALL validate the identity of other peer identities by validating the peer entities device certificate to an NPKI trust point			
SOW Annex-A	[SRS-7-447]	The MG SHALL provide measures for generating and storing audit information for security relevant events that will record access attempts to MG-protected resources by users.			
SOW Annex-A	[SRS-7-448]	The MG firmware and software SHALL be updated by an administrator on a regular basis in response to the release of product updates due to known vulnerabilities.			
SOW Annex-A		The MG SHALL ensure the integrity of its update packages prior to installation.			
SOW Annex-A SOW Annex-A		The "ForwardEmailHL" operation SHALL be compliant with the Simple Mail Transfer Protocol (SMTP) [IETF RFC 5321, 2008]. The policy MG_IFP_CA_HL_OUT SHALL specify the actions ACTIONS_MG_CA_HL_OUT that the operation 'Enforce HL Communications IFCPE'			
		SHALL execute for the information flow described in ([SRS-7-89]).			
SOW Annex-A		ACTIONS_MG_CA_HL_OUT SHALL include the following actions: • Filter traffic based on the ruleset RULESET_MG_IFCPE-CA_HL_OUT.			
SOW Annex-A	[SRS-7-452]	ACTIONS_MG_MGMT_IN SHALL include the following actions: • Filter traffic based on the ruleset RULESET MG_IFCPE-MGT_IN.			
SOW Annex-A		It SHALL be possible to enable or disable the enforcement of each sub-policy in ([SRS-7-189]).			
SOW Annex-A SOW Annex-A		It SHALL be possible to apply each sub-policy to either information flow ('CIPE Services Low to High' and 'CIPE Services High to Low). Cryptographic mechanisms implemented by MG_PKCS SHALL be based on Technical Implementation Guidance on Cryptographic			
		Mechanisms in Support of Cryptographic Services [NAC AC/322-D(2012)0022, 2013].			
SOW Annex-A SOW Annex-A		The operation 'Configure Protection Services' MUST provide the capability to manage XML artefacts for MG_CIS. The "ForwardEmailHL" operation SHALL be compliant with the Internet Message Format [IETF RFC 5322, 2008].			
SOW Annex-A	[SRS-7-47]	The "ForwardEmailHL" operation SHALL be compliant with the SMTP Service Extension for Secure SMTP over Transport Layer Security [IETF RFC 7817, 2016].			
SOW Annex-A	[SRS-7-48]	The "ForwardEmailHL" operation SHALL be compliant with the SMTP Service Extension for Delivery Status Notifications [IETF RFC 3461,			
SOW Annex-A	[SRS-7-49]	2003]. The "FowardEmailHL" operation SHALL be compliant with the Extensible Message Format for Delivery Status Notifications [IETF RFC 3464,			
SOW Annex-A		2003]. The MG SHALL offer a physical network interface MG_IF_NET_LOW that provides Ethernet connectivity to the low domain.			
SOW Annex-A		The 'ForwardEmailHL' operation SHALL be configurable to determine the destination host of a recipient from either DNS MX records or local			
SOW Annex-A	[SRS-7-500]	configuration. If MG_IFP_CA_HL_IN or MG_IFP_CA_HL_OUT does not permit information flow, the MG SHALL execute the actions specified in			
SOW Annex-A		MG_IFP_CA_HL			
SOW Annex-A	[585-7-501]	If MG_IFP_CA_LH_IN of MG_IFP_CA_LH_OUT do not permit information flow, the MG SHALL execute the actions specified in MG_IFP_CA_LH.			
SOW Annex-A SOW Annex-A		The MG management capability SHALL be installed on the management workstation. MG_MGMT SHALL generate private keys and corresponding Certificate Signing Requests (CSRs) for signing by the appropriate NATO			
		Registration Authority (RA).			
SOW Annex-A SOW Annex-A		MG_MGMT_CS SHALL update the malware/virus signatures used by the MG malware/virus scanner on a daily basis. MG_MGMT_CM SHALL integrate the update of the virus definitions (LIST_MG_CIS_AV_MALWARE_DEFINITIONS) used by MG malware			
SOW Annex-A	[SRS-7-506]	scanner with the existing capability The MG SHALL validate a confidentiality label (STANAG 4774) against the corresponding SPIE before it is used			
SOW Annex-A		Ine MG SHALL validate a confidentiality label [STANAG 4/74] against the corresponding SPIP before it is used. MG_MGMT_CS MAY support remote checking of the status of certificates using the Online Certificate Status protocol (OCSP) [IETF RFC 6960,			
SOW Annex-A	[SRS-7-51]	2013]. The local configuration of the destination hosts for the 'ForwardEmailLH" operation SHALL allow the use of wildcards in the domain name.			
COM/ Appar A	[CDC 7 52]	The least configuration of the destination basis for the "forwardFacility" acception f11A11 allow the use of wildows in the dessie accept			
SOW Annex-A		The local configuration of the destination hosts for the 'ForwardEmailHL' operation SHALL allow the use of wildcards in the domain name.			
SOW Annex-A	[SRS-7-53]	The 'ForwardEmailHL" operation SHALL allow the use the best match when determining the destination host from local configuration.			
SOW Annex-A	[SRS-7-54]	The "ForwardEmailHL" operation SHALL be able to rewrite the originator and recipient email addresses in both the Simple Mail Transfer			
SOW Annex-A	[SRS-7-55]	Protocol and the Internet Message Format. The "ForwardEmailHL" address rewriting SHALL allow the rewriting of both the local-part and the domain components of the email address.			
SOW Annex-A	[SRS-7-56]	MG DEX MUST offer a IPv4 and IPv6 [IETF RFC 791, 1981], and [IETF RFC 8200, 2017], over Ethernet interface 'Communications Access			
		Services Management' on top of MG_IF_MGMT.			
SOW Annex-A	[SRS-7-57]	The interface 'Communications Access Services Management' MUST support an operation 'ReceiveNetworkManagement' that provides TCP/IP connectivity on the management domain by receiving IP traffic for processing by the MG.			
SOW Annex-A SOW Annex-A		The operation 'ReceiveNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015]. The interface 'Communications Access Services Management' MUST support an operation 'ForwardNetworkManagement' that forwards IP			
		traffic to the management domain.			
SOW Annex-A	[SRS-7-6]	MG_F_NET_LOW SHALL support an operation 'ReceiveLow' that receives (transfer-in) data from the low domain for processing by the MG.			
SOW Annex-A		The operation 'ForwardNetworkManagement' MUST support error handling as specified in [IETF RFC 7414, 2015].			
SOW Annex-A SOW Annex-A		MG_DEX MUST offer an interface 'Core Services Management' on top of 'Communications Access Services Management'. MG_IF_NET_LOW SHALL support an operation 'ForwardLow' that forwards (transfer-out) data that has been processed by the MG to the low			
SOW Annex-A	[SRS-7-70]	domain. The interface 'Core Services Management' MUST support of the following management protocols:			
		 Simple Network Management Protocol (SNMP) Version 3 [IETF RFC 3410 - 3418, 2002]; 			
		Syslog; Network Time Protocol;			
		Intelligent Platform Management Interface (IPMI) [IPMI V2.0, 2013]; Hyper-Text Transport Protocol (HTTP) Web interface [IETF RFC 7230, 2014] and [IETF RFC 7231, 2014];			
		Remote Desktop (RDP).			
SOW Annex-A	[SRS-7-71]	The interface 'Core Services Management' MAY support the following management protocols: • Remote Procedure Call (RPC).			
		Keyboard, video and mouse (KVM) over Ethernet;			
SOW Annex-A	[SRS-7-72]	Command Line interface (CLI) via Secure Shell (SSH) Transport Layer protocol [IETF RFC 4251, 2006]; The interface 'Core Services Management' MUST support an operation 'ReceiveManagementContent' that receives external management	-	-	
SOW Annex-A	[SRS-7-73]	traffic for further processing. The operation 'ReceiveManagementContent' MUST support Transport Layer Security (TLS), [IETF RFC 8446, 2018].			
SOW Annex-A	[SRS-7-74]	The operation 'ReceiveManagementContent' MUST support the Secure Shell Protocol (SSH) [IETF RFC 4251, 2006].			
SOW Annex-A		The operation 'ReceiveManagementContent' MUST support the invocation of the operations 'Verify' (7.6.2.2.1) and 'Decrypt' (7.6.2.2.4) at the interface 'Public Key Cryptographic Services' ([SRS-7-296]) provided by MG_PKCS ([SRS-7-294]).			
SOW Annex-A	[SRS-7-76]	The operation 'ReceiveManagementContent' SHALL pass management content in the form of a management message to the appropriate interface offered by MG_MGMT ([SRS7-302]) for further processing.			
		· · · · · · · · · · · · · · · · · · ·			

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SOW Annex-A	[SRS-7-77]	The interface 'Core Services Management' MUST support an operation 'ForwardManagementContent' that accepts outgoing management messages for further processing.		
SOW Annex-A	[SRS-7-78]	After receiving a management message from one of the interfaces offered by MG_MGMT ([SRS-7-302]), the operation		
		'ForwardManagementContent' SHALL forward the management message, as payload of the appropriate management protocol, to the		
SOW Annex-A	[SRS-7-79]	management domain. The operation 'ForwardManagementContent' MUST support Transport Layer Security (TLS), [IETF RFC 8446, 2018].		
SOW Annex-A		The MG MAY offer a physical network interface MG_IF_MGMT that provides Ethernet connectivity to the management domain.		
SOW Annex-A SOW Annex-A	[SRS-7-80] [SRS-7-81]	The operation 'ForwardManagementContent' MUST support the Secure Shell Protocol (SSH) [IETF RFC 4251, 2006]. The operation 'ForwardManagementContent' MUST support the invocation of the operation 'Encrypt' (7.6.2.2.3) at the interface 'Public Key		
SOW Annex-A	[363-7-01]	Cryptographic Services' provided by MG_PKCS ([SRS-7-294]).		
SOW Annex-A	[SRS-7-82]	The MG MUST provide an information flow control policy enforcement (IFCPE) capability MG_IFCPE that enables the MG to: • Mediate the flow of information between MG_IF_NET_HIGH and MG_IF_NET_LOW in accordance with the MG information flow policy MG_IFP;		
		Control incoming and outgoing management traffic at MG_IF_MGMT in accordance with the MG information flow policy MG_IFP.		
SOW Annex-A	[SRS-7-83]	Mediate the flow of information between MG_IF_NET_HIGH and MG_IF_NET_LOW in accordance with the MG information flow policy MG_IFP;		
SOW Annex-A	[SRS-7-84]	Control incoming and outgoing management traffic at MG_IF_MGMT in accordance with the MG information flow policy MG_IFP.		
SOW Annex-A	[SRS-7-86]	For the flow of information from MG_IF_NET_HIGH to MG_IF_NET_LOW, MG_IFCPE MUST offer an interface 'IFCPE Services High to Low' that accepts information for further processing.		
SOW Annex-A	[SRS-7-87]	The interface 'IFCPE Services High to Low' MUST support an operation 'Enforce HL Communications IFCPE' that enforces the policy		
SOW Annex-A	[SRS-7-88]	MG_IFP_CA_HL. The operation 'Enforce HL Communications IFCPE' SHOULD enforce the policy MG_IFP_CA_HL_IN on the following information flow:		
JOW AIMER A	[5157 00]	Source: Communications Access Services HL Interface -> ReceiveInternalNetworkHL;		
		 Destination: Business Support Services HL Interface -> ReceiveEmailHL; Information: SMTP(S) traffic; 		
		 Operation: pass SMTP(S) traffic by ensuring the following conditions: 		
		o MG_IFP_CA_HL_IN permits information flow.		
SOW Annex-A	[SRS-7-89]	The operation 'Enforce HL Communications IFCPE' SHALL enforce the policy MG_IFP_CA_HL_OUT on the following information flow:		
		Source: SOA Platform HL Interface -> ForwardEmailHL; Destination: Communications Access Services HL Interface -> ForwardNetworkHL;		
		 Information: SMTP(S) traffic; 		
		Operation: pass SMTP(S) traffic by ensuring the following conditions: o MG IFP CA HL OUT permits information flow.		
SOW Annex-A	[SRS-7-9]	If the MG does not offer a physical network interface MG_IF_MGMT, the MG SHALL offer a logical network interface MG_IF_MGMT on top of MG_IF_NET_HIGH.		
SOW Annex-A	[SRS-7-90]	For every action taken, the operation 'Enforce HL Communications IFCPE' SHALL invoke the operation 'Log' at the interface 'Event		
SOW Annex-A	[SRS-7-91]	Management' and log the action. If MG_IFP_CA_HL does not permit the release of information due to a policy violation, the MG SHALL invoke the operation 'Log' at the		
		interface 'Event Management' and log the outcome O_MG_IFCPE.		
SOW Annex-A SOW Annex-A	[SRS-7-92] [SRS-7-93]	The MG SHALL ensure that no illicit information flows exist to circumvent the enforcement of MG_IFP_CA_HL The interface 'IFCPE Services High to Low' MUST support an operation 'Enforce HL Business Support IFCPE' that enforces the policy IEG-		
		C_IFP_BS_EMAIL_HL		
SOW Annex-A	[SRS-7-94]	The operation 'Enforce HL Business Support IFCPE' SHALL enforce the policy IEG-C_IFP_BS_EMAIL_HL on the following information flow: • Source: Business Support Services HL Interface->ReceiveEmailHL;		
		Source: Business Support Services HL Interface>ForwardEmailHL; Destination: Business Support Services HL Interface>ForwardEmailHL;		
		Information: SMTP Messages; Operation: pass SMTP Messages from source to destination ensuring the following conditions:		
		• Operation: pass switch messages from source to destination ensuring the following conditions. o the SMTP Message has been processed by the MG content inspection policy enforcement capability MG_CIPE ([SRS-7-169]) based on the		
		content inspection policy MG_CIP_HL (Table 19, 7.5.4.3 and 7.5.4.4);		
		o Based on the outcome of processing by MG_CIPE, IEG-C_IFP_BS_EMAIL_HL permits the release of the SMTP Message to the low domain.		
	(cpc 7.05)			
SOW Annex-A	[2K2-1-32]	The operation 'Enforce HL Business Support IFCPE' MUST support the invocation of the operation 'Enforce HL Business Support CIPE' at the interface 'CIPE Services High to Low' ([SRS-7-173]). The operation 'Enforce HL Business Support CIPE' SHALL take as input:		
		The SMTP message that is being processed;		
		• The policy MG_CIP_HL.		
SOW Annex-A	[SRS-7-96]	If IEG-C_IFP_BS_EMAIL_HL does not permit the release of information, the MG SHALL execute the actions specified in IEG-		
SOW Annex-A	[SRS-7-97]	C_FP_BS_EMAIL_HL. For every action taken, the operation 'Enforce HL Business Support IFCPE' SHALL invoke the operation 'Log' (7.7.7.1.1) at the interface 'Event		
	(Management' ([SRS-7-392]) and log the action.		
SOW Annex-A	[SRS-7-98]	If IEG-C_IFP_BS_EMAIL_HL does not permit the release of information due to a policy violation, the MG SHALL invoke the operation 'Log' 7.7.7.1.1) at the interface 'Event Management' ([SRS-7-392]) and log the outcome O_MG_IFCPE ([SRS-7-91]).		
SOW Annex-A		The MG SHALL ensure that no illicit information flows exist to circumvent the enforcement of IEG-C_IFP_BS_EMAIL_HL.		
SOW Annex-A	[SRS-8-1]	The IEG-C SHALL be located in a restricted or monitored environment that provides protection from unmanaged access to the physical components and data interfaces of the IEG-C.		
SOW Annex-A	[SRS-8-10]	The TBP SHALL provide mechanisms that control a user's logical access to the TOE and to explicitly deny access to specific users when		
SOW Annex-A	[SRS-8-11]	appropriate. The IEG-C SHALL be able to recognize and discard invalid or malicious input provided by users.		
		The IEG-C SHALL be capable of maintaining protection policy enforcement if it is unable to communicate with the Policy Enforcement		
SOW Annex-A	[SRS-8-13]	module which provided it the policy. The IEG-C SHALL provide a mechanism to identify and rectify contradictory policy data.		
SOW Annex-A	[SRS-8-14]	The IEG-C SHALL enable enforcement of information flow between the IEG-C components.	-	
SOW Annex-A SOW Annex-A	[SRS-8-15] [SRS-8-16]	The IEG-C SHALL enable enforcement of content inspection between the IEG-C components. The IEG-C SHALL validate the origin, integrity and binding [STANAG 4778 of a security label [STANAG 4774] to a data object before it is used.		
	[SRS-8-17]			
SOW Annex-A	[JNJ-d-1/]	The Data Protection Module SHALL provide a NATO approved cryptographic sub-component with NATO-approved methods for key management (i.e.; generation, access, distribution, destruction, handling, and storage of keys), and for cryptographic operations (i.e.;		
		encryption, decryption, signature, hashing, key exchange, and random number generation services) as described in [NAC AC/322- D(2007)0002-REV1, 2015].		
SOW Annex-A	[SRS-8-18]	D[2007]0002-REV1, 2015]. The Data Protection Module cryptographic sub-component is validated according validated to at least FIPS 140-2 Level 2 [FIPS 140-2, 2001],		
		or otherwise verified to an equivalent level of functionality and assurance by a NATO nation COMSEC authority.		
SOW Annex-A	[SRS-8-19]	Ref: [NAC AC/322-D(2004)0024-REV3-COR1, 2018] The Data Protection Module SHALL provide capability to protect against network-based reconnaissance (probing for information about a		
		monitored network or its endpoints), such as through use of various scanning or mapping techniques. Ref: [NC3B AC/322-D(2004)0019 (INV), 2004]		
SOW Annex-A	[SRS-8-2]	Utilisation of modern IA techniques and compliancy with the cyber-defence services SHALL be followed.		
SOW Annex-A SOW Annex-A	[SRS-8-2] [SRS-8-20]	The Infrastructure Platform SHALL provide a NATO approved malware scanning capability [NC3B AC/322-D(2004)0019 (INV), 2004].		
30w Annex-A	LONO-0"20J	The Data Protection Module SHALL provide capability to protect against attacks that are targeted at obstructing the normal function of monitored networks, endpoints, or services, such as through denial of service attacks.		
SOW Annex-A	[SRS-8-21]	Ref: [NC3B AC/322-D(2004)0019 (INV), 2004] The Data Protection Module SHALL provide capability to protect against disclosing or transmitting information in violation of the policy.		
SOW Annex-A	[SRS-8-22]	The IEG-C SHALL apply analytical processes to network traffic data collected from monitored networks and derive conclusions about		
SOW Annex-A	[SRS-8-23]	potential intrusions or network traffic policy violations. The IEG-C shall provide mechanisms that mitigate attempts to exhaust resources provided by the TOE (e.g., resulting in denying access to		
SOW Annex-A	[SRS-8-24]	high network resources). The Data Protection Module SHALL provide capability to protect against gaining inappropriate access to one or more networks, endpoints, or		
30w Annex-A	L010-0-24j	services, such as through transmitting malicious executable code, scripts, or commands.		
SOW Annex-A	(CDC-0 2E1	Ref: [NC3B AC/322-D(2004)0019 (INV), 2004] The IEC C SIMU accurates in protection policy information in transmitted to the Policy Enforcement Medule in a secure and timely manager		
SOW ANNEX-A	[010-0-20]	The IEG-C SHALL ensure that is protection policy information is transmitted to the Policy Enforcement Module in a secure and timely manner so that there is assurance that the correct policy is being enforced.		
SOW Annex-A	[SRS-8-26]	The IEG-C SHALL ensure that communications between distributed components of the TOE are not subject to unauthorized modification or		
SOW Annex-A	[SRS-8-27]	disclosure. The IEG-C SHALL provide a means to ensure that administrators are not communicating with some other entity pretending to be the TOE		
SOW And the	[SRS-8-28]	when supplying identification and authentication data.		
SOW Annex-A		The IEG-C SHALL provide a mechanism to securely validate requested authentication attempts and to determine the extent to which any validated subject is able to interact with the TSF.		
SOW Annex-A	[SRS-8-29]	The IEG-C SHALL contain the ability to validate the identity of other TOE components prior to distributing data to them.		

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Spin Num	SOW Annex-A	[SRS-8-3]	directive for the interconnection of networks: • AC/322-D(2004)0024-REV3-COR1 "CIS Security Technical and Implementation Directive on the NATO PKI Certificate Policy" • AC/35-D/1021-REV3, dated 31 Jan 2012 "Guidelines for the security accreditation of communication and information systems (CIS)" • AC/35 D/2004 Rev3 15 Nov 2013 "Primary Directive on CIS Security" • AC/35 D/2004 ReV3 LINU 11 March 2009 "INFOSEC Technical & Implementation Directive on cryptographic security and cryptographic		
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Image Number Number Number Number Number Number Image Number			The IEG-C shall provide the capability to protect audit information.		
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Subsection		· · · ·	The IEG-C SHALL provide reliable time stamps and the capability for the administrator to set the time used for these time stamps.		
900 model91-19091-10091-10091-10091-1009191-1009	SOW Annex-A	[SRS-8-35]	operation of the operating system and discover its cause. Gathering event information and immediately transmitting it to another system		
Distance Photops <	SOW Annex-A	[SRS-8-36]	The IEG-C SHALL provide an administrator role to isolate administrative actions, and to make the administrative functions available locally		
Image: Construction of the section of the sectio of the section of the section of the section of the se	SOW Annex-A	[SRS-8-37]	,	 	
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SOM ANDAR Res.4.411 The informational relationship is an advanced solutic sequence and sequence take requires to the relative of product system. Image: Solution of Solutic Solution of Solution of Solution of Solution of Solution of Solution of Solutic Solution of			The IEG-C SHALL collect and store information about all events that may indicate a policy violation related to misuse, inappropriate access,		
media media <th< td=""><td>SOW/ Annex-A</td><td>[SRS-8-42]</td><td></td><td></td><td></td></th<>	SOW/ Annex-A	[SRS-8-42]			
And Part Part Part Part Part Part Part Part			product updates due to known vulnerabilities.		
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metagenesis metagenesis metagenesis metagenesis metagenesis 000000000000000000000000000000000000	SOW Annex-A	[SRS-8-43]	The IEG-C SHALL ensure the integrity of their update packages. OSs are seldom if ever shipped without errors, and the ability to deploy	 	
S020 Acoust, 008-840 The Ref C MML provide compatibility to the The Disc metry spectra of The TS of a superstand interval spectra of the TS of the Source MML spectra of the SOUR spectra of the TS of the Source MML spectra of the SOUR spectra of the TS of the Source MML spectra of the SOUR spectra					
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S000 Amers. Not-44 The EC - SMLL must be target information contained in a protocol measure to an electronic to an elec	CO11/ A	[CDC 0 47]			
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according to release NAT public Accises of Marcine Program Series Animal Program Series	SOW Annex-A	[SRS-8-6]			
Sector Sector Sector Sector Sector			according to relevant NATO guidance and directives [NAC AC/322-D/0048-REV3, 2019]		
S004 Allow A S004 Allow A<	SOW Annex-A	[SRS-8-7]			
S004 Amese, S054-91 The TB SMAL provide relative training on the IESC. Image: Source	SOW Annex-A	[SRS-8-8]	The TBP SHALL protect any other function of the underlying platform from being used by untrusted subjects in a way that would violate the		
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SOV Annex A S05-9.01 Remote Management traffic MLST be encrypted. Image: Constraint of the S05 Annex A			All Management capabilities MUST provide support for multiple concurrent administrators with access control to enable simultaneous		
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	SOW Annex-A	[SRS-9-118]	The IEG-C SHALL provide reliable time stamps and the capability for the Audit Administrator to set the time used for these time stamps.		
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Unauthorised attempts to access IEG-C system files					
			Modification to IEG-C access rights		

SOW Annex-A	[SRS-9-120]	The IEG-C SHALL generate and maintain an audit log for each of the Data Exchange Services auditable events: Data Exchange Services Start-up and shutdown 			
		Unauthorised attempts to request access to information cross domain Unauthorised attempts to modify Data Exchange Services configuration			
SOW Annex-A	[SRS-9-121]	 Failed Data Exchange Services operations The IEG-C SHALL generate and maintain an audit log for each of the Protection Services auditable events: 			
		Protection Services start-up and shutdown Failed Protection Services operations			
		Unauthorised attempts to modify Protection Services configuration Creation, modification and deletion of Public Key Cryptographic Services keying material			
		Updates of Intrusion Detection Services IDS signatures			
	-	Updates of Content Inspection Services content filters Failed certificate path validation and revocation			
SOW Annex-A	[SRS-9-122]	The IEG-C SHALL generate and maintain an audit log for each of the Protection Policy Enforcement Services auditable events: • Protection Policy Enforcement Services start-up and shutdown			
		Failed Protection Policy Enforcement Services operations Unauthorised attempts to create, modify or delete Information Flow Control policies			
SOW Annex-A	[SRS-9-123]	 Unauthorised attempts to create, modify or delete Content Inspection policies The IEG-C SHALL archive the audit log after a period of time as configured by the Audit Administrator. 			
SOW Annex-A SOW Annex-A	[SRS-9-124]	By default the audit log SHALL be archived daily. The IEG-C SHALL automatically back up audit logs at configurable intervals.			
SOW Annex-A	[SRS-9-126]	The IEG-C SHALL provide integrity checking countermeasures to ensure that the audit log has been archived correctly.			
SOW Annex-A		The IEG-C SHALL alert the Audit Administrator when the audit log exceeds a configurable percentage of the configurable maximum permitted size.			
SOW Annex-A SOW Annex-A	[SRS-9-13]	By default the configurable percentage SHALL be 90% of the configurable maximum permitted size. The IEG-C MUST offer the 'Communications Access Management' Interface on top of the IEG-C Management interface.			
SOW Annex-A SOW Annex-A		The IEG-C MUST offer the 'Core Services Management' Interface on top of the 'Communications Access Management' Interface The IEG-C MUST support the 'ReceiveManagementContent' operation to provide connectivity for administrators on the MANAGEMENT			
SOW Annex-A	[SRS-9-16]	DOMAIN. The operation 'ReceiveManagementContent' SHALL pass management content to the appropriate interface (see Sections 9.2, [SRS-9-83] and			
SOW Annex-A	[SRS-9-17]	[SRS-9-98]]. The IEG-C MUST support the 'ForwardManagementContent' operation that forwards management traffic to the MANAGEMENT DOMAIN.		-	
SOW Annex-A		After receiving management content from the appropriate interface (see Sections 9.2, [SRS-9-83] and [SRS-9-98].), the operation			
SOW Annex-A		ForwardManagementContent' SHALL forward the management content to the MANAGEMENT DOMAIN.			
SOW Annex-A	[SRS-9-2]	An Enterprise CMDB already exists, and SHALL be used as the underpinning of the Platform's configuration management as well. Figure 32 illustrates the interfaces that MUST be provided by the IEG-C for managing the IEG-C remotely and locally.			
SOW Annex-A		The IEG-C SHALL support the Enterprise Configuration Management via an interface with the Enterprise configuration management database (BMC ITSM Atrium CMDB) to track IEG-C assets and their configuration information.			
SOW Annex-A SOW Annex-A	[SRS-9-200] [SRS-9-201]	The patching of IEG-C components SHAL be performed centrally from the Service Operation Centre (SOC). For all its components the IEG-C SHALL support the generation of cybersecurity-related log, alert, and event data in accordance with the			
		NATO Enterprise Security Monitoring Guidance [NCI Agency TR/2017/NCB010400/12, 2017] and the Technical and Implementation Directive on CIS Security [NAC AC/322-D/0048-REV3, 2019].			
SOW Annex-A	[SRS-9-202]	For all its components the IEG-C SHALL support the ingestion of cybersecurity-related log, alert, and event data in the SIEM solution that is operated by NCSC.			
SOW Annex-A	[SRS-9-203]	For all its components the IEG-C SHALL ensure that all cybersecurity-related log, alert, and event data can be parsed correctly by the SIEM solution that is operated by NCSC.			
SOW Annex-A		All audit logs SHALL record the date, time, details of change and the user.			
SOW Annex-A	[SRS-9-21]	The IEG-C MUST offer an interface 'SMC Configuration Management' that accepts an incoming 'SMC Message' for further processing.			
SOW Annex-A	[SRS-9-22]	The 'SMC Configuration Management' Interface MUST provide the capability to manage the underlying operating system(s) hosting all the services provided by the IEG-C.			
SOW Annex-A	[SRS-9-23]	The 'SMC Configuration Management' Interface MUST provide the capability to configure, deploy and decommission Data Exchange Services depending upon the information exchange requirement(s) that is (are) being supported.			
SOW Annex-A	[SRS-9-24]	The 'SMC Configuration Management' Interface MUST provide the capability to configure, deploy and decommission Protection Services depending upon the information exchange requirement(s) that is (are) being supported.			
SOW Annex-A	[SRS-9-25]	The 'SMC Configuration Management' Interface MUST provide the capability to provides the ability to change, capture, duplicate, backup or restore the configuration of the Protection Policy Enforcement Services depending upon the information exchange requirement(s) that is			
	(000.0.00)	(are) being supported.			
SOW Annex-A	[SRS-9-26]	The 'SMC Configuration Management' Interface MUST support the following operations: • 'Configure OS';			
		Configure Data Exchange Services'; Configure Protection Services'; and,			
SOW Annex-A	[SRS-9-27]	Configure Protection Policy Enforcement Services'. The operation 'Configure OS' SHALL support SMC Messages of the following types:			
		Secure Shell (SSH, [IETF RFC 4253, 2006]); Network Time Protocol (NTP, [IETF RFC 5905, 2010]);			
		Remote Desktop Protocol (RDP); Intelligent Platform Management Interface (IPMI, [IPMI V2.0, 2013]);			
SOW Annex-A	[505-0-28]	Hypertext Transport Protocol Message (HTTP, [IETF RFC 7230, 2014]). The operation 'Configure OS' SHALL support the management of the IEG-C hardware (virtual or physical) and software resources including			
SOW Annex-A	[363-9-26]	configuration of common services provided by the operating system (OS) for applications running on the operating system. These common			
		services include application execution, input/output operations, file system, communication, resource allocation, control access to OS resources and time synchronisation.			
SOW Annex-A	[SRS-9-29]	The operation 'Configure Data Exchange Services' SHALL support SMC Messages of the following types: • Secure Shell (SSH, [IETF RFC 4253, 2006]);			
		Remote Desktop Protocol (RDP); Hypertext Transport Protocol Message (HTTP, [IETF RFC 7230, 2014]).			
SOW Annex-A SOW Annex-A		The IEG-C MUST provide the capability to be managed remotely from a central location on the HIGH DOMAIN. The operation 'Configure Protection Services' SHALL support SMC Messages of the following types:			
		Secure Shell (SSH, [IETF RFC 4253, 2006]); Remote Desktop Protocol (RDP);			
SOW Annex-A	[SRS-9-31]	Hypertext Transport Protocol Message (HTTP, [IETF RFC 7230, 2014]). The operation 'Configure Protection Policy Enforcement Services' SHALL support SMC Messages of the following types:			
Sow Annex-A	UND 2-31]	Secure Shell (SSH, [IETF RFC 4253, 2006]);			
	1000.0.77	Remote Desktop Protocol (RDP); Hypertext Transport Protocol Message (HTTP, [IETF RFC 7230, 2014]).			
SOW Annex-A		The IEG-C 'SMC Configuration Management' Interface SHALL pass outgoing SMC Messages to the interface 'Core Services Management' for further processing.			
SOW Annex-A SOW Annex-A	[SRS-9-34] [SRS-9-35]	The IEG-C SHALL collect events generated from all IEG-C services and forward them to the Enterprise Event Management System. The IEG-C SHOULD support monitoring based on the Microsoft System Center Operations Manager (SCOM).			
SOW Annex-A		The IEG-C SHALL support SNMP v3 [IETF RFC 3412, 2002] with standards-based and proprietary-specific Management Information Bases (MIBs).			
SOW Annex-A	[SRS-9-37]	The IEG-C SHALL provide a toolset which allows Administrators to define, filter, correlate and group events according to their context, criticality, source and impacts.			
SOW Annex-A	[SRS-9-38]	The IEG-C SHALL provide an event correlation toolset that can be either customizable or adaptive to detect normal and abnormal behaviour patterns.			
SOW Annex-A		The IEG-C MUST offer an interface 'SMC Event Management' that accepts an incoming 'SMC Message' for further processing.			
SOW Annex-A		To support remote management from a central location the IEG-C MUST offer the physical (or logical) IEG-C Management Interface implemented on top of the IEG-C High Domain Interface as described in Section 3.2.			
SOW Annex-A SOW Annex-A	[SRS-9-40] [SRS-9-41]	The 'SMC Event Management' Interface MUST support the following operations: The IEG-C SHALL support Data Exchange Services logging for monitoring access requests for information from both the High Domain and the			
SOW Annex-A	[SRS-9-42]	Low Domain. The IEG-C SHALL provide the capability to examine recorded historical logs and archives.	<u> </u>	<u> </u>	
SOW Annex-A	[SRS-9-43]	The IEG-C SHALL support the correlation of requests and responses in order to track all responses (or faults) with the correct request for information access.			
SOW Annex-A SOW Annex-A		The IEG-C SHALL log request and response attributes to include: The IEG-C SHALL log request and response attributes to include: The IEG-C SHALL also provide functionality to log attributes extracted from the payload.			
SOW Annex-A		The IEG-C SHALL also provide functionality to log attributes extracted from the payload. The IEG-C SHALL provide functionality to log selectively whole messages based on pre-configured criteria or filter (e.g. policy based).			
SOW Annex-A	[SRS-9-47]	The IEG-C SHALL provide a log analysis tool that allows a search for log events based on combinations of search criteria across all fields in the			
	l	log record format supported by this system.		I	I

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SOW Annex-A SOW Annex-A		The IEG-C SHALL provide the capability to aggregate generated log messages for all instances of services of IEG-C. The IEG-C MUST provide the capability to be managed locally.		
SOW Annex-A		The operation 'Log' SHALL support SMC Messages of the following types:		
		 Syslog Message [IETF RFC 5424, 2009]; and, Hypertext Transport Protocol Message (HTTP/1.1, [IETF RFC 7230, 2014], HTPP/2.0 [IETF RFC 7540, 2015]). 		
SOW Annex-A	[SRS-9-51]	The IEG-C 'SMC Event Management' Interface SHALL pass outgoing 'Log' SMC Messages to the interface 'Core Services Management' for		
SOW Annex-A	[SRS-9-52]	further processing. The IEG-C SHALL provide a toolset to configure rule based event filtering, and to automate alert triggering capabilities.		
SOW Annex-A		The IEG-C SHALL provide a toolset to configure rule based event filtering, and to automate alert triggering capabilities. The IEG-C SHALL provide functionality to generate alerts associated with IEG-C services to include:		
		breach of performance or capacity thresholds;		
		 SLAs can't be met; and specific mechanisms to enforce SLAs were activated (e.g. throttling). 		
SOW Annex-A		The IEG-C SHALL provide functionality to generate an alert about stalled processes (e.g. a compromised content filter).		
SOW Annex-A	[SRS-9-55]	The operation 'Alert' SHALL support SMC Messages of the following types: • Simple Network Management Protocol (SNMP) v3 Message [IETF RFC 3410-3418, 2002]		
-		• Syslog [IETF RFC 5424, 2009];		
SOW Annex-A	[SRS-9-56]	The IEG-C 'SMC Event Management' Interface SHALL pass outgoing 'Alert' SMC Messages to the interface 'Core Services Management' for further processing.		
SOW Annex-A		The IEG-C SHALL provide operational and historical reports on events.		
SOW Annex-A SOW Annex-A		The IEG-C SHALL provide a toolset allowing for custom report building and saving. The IEG-C SHALL be able to generate		
50W Annex A	[5/15/5/55]	SLA compliance reports		
		error/exception reports service usage reports		
		other customizable reports based on captured metrics which can be filtered and sorted based on various criteria		
SOW Annex-A	[SRS-9-6]	To support local management the IEG-C MUST offer a physical network interface providing Ethernet connectivity to the management users on a separate security domain depicted as the MANAGEMENT DOMAIN in Figure 32		
SOW Annex-A	[SRS-9-60]	The IEG-C SHALL be able to provide performance trend analysis.		
SOW Annex-A	[SRS-9-61]	The operation 'Report' SHALL support SMC Messages of the following types:		
		 Simple Network Management Protocol (SNMP) v3 Message [IETF RFC 3410-3418, 2002] Comma Separated Values (CSV) 		
SOW Annex-A	[SRS-9-62]	The IEG-C 'SMC Event Management' Interface SHALL pass outgoing 'Report' SMC Messages to the interface 'Core Services Management' for		
SOW Annex-A	[SRS-9-63]	further processing. The IEG-C MUST offer an interface 'SMC Performance Management' that accepts an incoming 'SMC Message' for further processing.		
	· · ·			
SOW Annex-A	[SRS-9-64]	The 'SMC Performance Management' Interface MUST support the following operations: • Monitor'; and		
-		• 'Meter';		
SOW Annex-A	[SRS-9-65]	The IEG-C SHALL monitor the status and quality of service, (including availability, performance, and utilisation) of the IEG-C infrastructure and the IEG-C Services hosted on the IEG-C.		
SOW Annex-A	[SRS-9-66]	The IEG-C SHALL provide functionality for real time monitoring of IEG-C Services against expected KPI, SLA, or other metric thresholds as		
SOW Annex-A	[SRS_0_67]	configured. The IEG-C SHALL provide visibility on usage patterns over daily, monthly and variable periods. This toolset shall support trend and abnormal		
SOW Annex-A	[3K3-9-07]	behaviour analysis.		
SOW Annex-A		The IEG-C SHALL provide customizable dashboards for monitoring selected statistics and metrics for IEG-C services.		
SOW Annex-A	[SRS-9-69]	The IEG-C SHALL provide the capability to monitor requests for information access attempts cross domain through the IEG-C services.		
SOW Annex-A	[SRS-9-7]	The IEG-C Management Interface MUST support the operation 'ReceiveNetworkManagement' as specified in [NCIA TR/2016/NSE010871/01,		
SOW Annex-A	[SRS-9-70]	2017] section A.2.2.3. The IEG-C SHALL provide functionality to monitor service faults and exceptions.		
SOW Annex-A		The operation 'Monitor' SHALL support SMC Messages of the following types:		
SOW Annex-A	[SRS-9-72]	 Simple Network Management Protocol (SNMP) v3 Message [IETF RFC 3410-3418, 2002] The IEG-C 'SMC Performance Management' Interface SHALL pass outgoing 'Monitor' SMC Messages to the interface 'Core Services 		
		Management' for further processing.		
SOW Annex-A	[SRS-9-73]	The IEG-C SHALL be able to collect and present the statistics on service utilisation broken down by end user or system which can be used for metering, billing and other purposes.		
SOW Annex-A	[SRS-9-74]	The IEG-C SHALL aggregate collected statistics for a given end user or system or group of end user or system over specified periods of time.		
SOW Annex-A	(CDC 0 75)	The IEG-C SHALL archive and make available for retrieval and reporting collected and aggregated statistics.		
SOW Annex-A		The Device Shall archive and make available for retrieval and reporting collected and aggregated statistics. The operation 'Meter' SHALL support SMC Messages of the following types:		
	(000.0.77)	Simple Network Management Protocol (SNMP) v3 Message [IETF RFC 3410-3418, 2002]		
SOW Annex-A	[SRS-9-77]	The IEG-C 'SMC Performance Management' Interface SHALL pass outgoing 'Meter' SMC Messages to the interface 'Core Services Management' for further processing.		
SOW Annex-A		The IEG-C SHALL provide the capability to allow the CIS Security Administrator to fulfil their role.		
SOW Annex-A SOW Annex-A		The IEG-C MUST offer an interface 'CIS Security' that accepts an incoming 'CIS Security Message' for further processing. The IEG-C Management Interface MUST support the operation 'ForwardNetworkManagement' as specified in [NCIA TR/2016/NSE010871/01,		
		2017] section A.2.2.3.		
SOW Annex-A	[SRS-9-80]	The 'Cyber Defence' Interface MUST support the following operations: • 'Manage Public Key Material';		
		'Manage Protection Policies'; and,		
SOW Annex-A	[CDC 0 91]	 'Review'. The IEG-C SHALL provide the Security administrator the ability to perform all necessary functions regarding the management of 		
30W Annex-A	[583-5-61]	cryptographic key material.		
SOW Annex-A	[SRS-9-82]	The management of key material SHALL be compliant with CIS Security Technical and Implementation Guidance in Support of Public Key Infrastructure - Cryptographic Aspects [NAC AC/322-D(2007)0002-REV1, 2015].		
SOW Annex-A	[SRS-9-84]	Infrastructure - Cryptographic Aspects [NAC AC/322-D[2007]0002-REV1, 2015]. The IEG-C 'CIS Security' Interface SHALL pass outgoing 'Manage Public Key Material' CIS Security Messages to the interface 'Core Services		
COW AT	[EBE 0 05]	Management' for further processing.		
SOW Annex-A	[כס-ב-כחכן	The IEG-C SHALL provide the capability for a Security administrator to manage the full lifecycle of the Information Flow Control Policies and the Content Inspection Policies that are required to be enforced by the Protection Policy Enforcement Services dependent upon the		
6011 ⁻	(cpc c cc)	information exchange requirements.		
SOW Annex-A	[3K2-3-96]	The IEG-C SHALL provide the capability to support the creation, modification and deletion of the protection policies including the activation and de-activation of those protection policies.		
SOW Annex-A		The IEG-C 'Manage Protection Policies' operation SHALL also support backing up and restoring of policies.		
SOW Annex-A	[SRS-9-88]	The IEG-C SHALL provide the Security administrator with the capability to manage the Protection Services with tasks such as update IDS signatures, anti-virus signatures, manage content filters and patch hardware and software.		
SOW Annex-A		The operation 'Manage Protection Policies' SHALL support CIS Security Messages of the following types:		
SOW Annex-A	[SRS-9-9]	The IEG-C Management Interface SHALL be managed using one or more of the following protocols: • HyperText Transport Protocol (HTTP) [IETF RFC 7230, 2014];		
		Secure Shell Protocol (SSH) [IETF RFC 4251, 2006];		
		Remote Desktop Protocol; Keyboard, Video and Mouse (KVM) over Ethernet;		
		 Simple Network Management Protocol (SNMP) v3 [IETF RFC 3410 – 3418, 2002]. 		
SOW Annex-A	[SRS-9-90]	The IEG-C 'CIS Security' Interface SHALL pass outgoing 'Manage Protection Policies' CIS Security Messages to the interface 'Core Services		
SOW Annex-A	[SRS-9-91]	Management' for further processing. The IEG-C SHALL provide the capability to the Audit manager to review audit logs.		
SOW Annex-A		The operation 'Review' SHALL support CIS Security Messages of the following types:	-	
		 Secure Shell (SSH, [IETF RFC 4253, 2006]); Hypertext Transport Protocol Message (HTTP, [IETF RFC 7230, 2014]); 		
		• HTTP over TLS ([IETF RFC 2818, 2000]).		
SOW Annex-A SOW Annex-A	[SRS-9-93] [SRS-9-94]	The IEG-C SHALL provide the capability to allow the Cyber Defence Administrator to fulfil their role. The IEG-C MUST offer an interface 'Cyber Defence' that accepts an incoming 'Cyber Defence Message' for further processing.		
SOW Annex-A		The 'Cyber Defence' Interface MUST support the following operations:		
		 'Assess'; 'Respond'; and, 		
		• 'Recover'.		
SOW Annex-A	[SRS-9-96]	The IEG-C SHALL provide the Cyber Defence administrator with the capability to assess damage and attacks/faults identifying IEG-C components that have been affected by attacks and faults.		
SOW Annex-A		The IEG-C SHALL support analysis and evaluation of attacks.		
SOW Annex-A	[SRS-9-98]	For all its components the IEG-C SHALL support the aggregation of cybersecurity-related log, alert, and event data to a central repository or		
L	1	log aggregator as provided by the monitoring infrastructure in use by NCSC		I

SOW Ar	nex-A [SRS-9-99]	The operation 'Assess' SHALL support Cyber Defence Messages of the following types:		
		 Secure Shell (SSH, [IETF RFC 4253, 2006]); 		
		Hypertext Transport Protocol Message (HTTP, [IETF RFC 7230, 2014]);		
		• HTTP over TLS ([IETF RFC 2818, 2000]).		

Provided/Detailed Partial Deviation proposed Not Detailed

> BI SOW SRS



NATO Communications and Information Agency

PROVIDE INFORMATION EXCHANGE GATEWAY (IEG) SOLUTIONS BETWEEN NATO SECRET AND NATO-LED MISSION SECRET DOMAINS

IFB-CO-14314-IEG-C

AUTHORISATION/SERIAL NOs 2014/0IS03102 AC/4(PP)D/27045-ADD1 AC/4-DS(2015)0018 AC/4(PP)D/27045-ADD2 AC/4-DS(2018)0021 AC/4(PP)D/27045-ADD3 AC/4-DS(2021)0001

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SECTION 1. INTRODUCTION

- 1.1 PURPOSE
 - 1.1.1 The purpose of this Invitation For Bid (IFB) is to award a Contract for the provision of an Information Exchange Gateway (IEG) solutions between NATO Secret and NATO-LED Mission Secret Domains.

1.2 PROJECT SCOPE

- 1.2.1 This project will provide the system for securing information exchange services between the NATO Secret Bi-SC AIS and the NATO-led Mission Secret networks by the implementation of secure gateways, replacing the prototype gateways in current use, and conform to recently approved NATO Metadata STANAGs (4774, 4778). The project will provide a standardized architecture for IEG-C, resolving deficiencies and improving management capabilities by including a centralized management capability. The current gateways will be upgraded, redesigned or renewed to comply with this architecture.
- 1.2.2 The aforementioned information exchange services shall include in particular:
 - (a) Text Chat
 - (b) Electronic mail
 - (c) Directory Services
 - (d) Web Services
 - (e) Common Operational Picture Data
 - (f) Tactical Data Links data
 - (g) Remote desktop Srvices
 - (h) Video Streams
- 1.2.3 IEG-C will utilise certificates provided by the NATO Public Key Infrastructure (NPKI) service.
- 1.2.4 The IEG-C project scope includes:
 - (a) Project management

(b) Requirements Analysis, Site Surveys, System Engineering/Design, Testing

- (c) Security accreditation
- (d) Site implementation
- (e) Initial support
- (f) Removal of legacy equipment

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1.3 OVERVIEW OF THE PROSPECTIVE CONTRACT

1.3.1.1 The Prospective Contract (Book II) requires the selected Contractor to deliver the scope of the project described above. This will be achieved within the framework of the Contract resulting from this IFB by means of performance of Contract requirements and Work Packages that are further defined in the Statement of Work (SOW), Part IV to the Prospective Contract. Final System Acceptance (FSA) for the main implementation contract is scheduled for 28 27 months after Effective Date of Contract (EDC).

1.4 GOVERNING RULES, ELIGIBILITY, AND EXCLUSION PROVISIONS

- 1.4.1 This solicitation is an International Invitation For Bid and is issued in accordance with the procedures for International Competitive Bidding set forth in the NATO document AC/4-D/2261 (1996 Edition) including Annex X. Pursuant to these procedures, Bidding is restricted to companies from participating NATO member nations for which a Declaration of Eligibility (DoE) has been issued by their respective government authorities.
- 1.4.2 The evaluation method to be used in the selection of the successful Bidder under this solicitation will follow the Best Value Procedures set forth in AC/4-D/2261-ADD2 dated 24 July 2009, AC/4-D(2008)0002-REV1-AS1 dated 23 July 2009 and AC/4(2008)0002-REV2 dated 15 July 2015.
- 1.4.3 The Bid evaluation criteria and the detailed evaluation procedures are described in SECTION 4 BID EVALUATION .
- 1.4.4 This IFB will not be the subject of a public Bid opening.
- 1.4.5 A site survey visit shall take place at the main site locations EDC+ 4 weeks. The bidder shall note that the main site locations are SHAPE, Belgium and Naples, Italy. The remaining five locations may be visited at a later stage to be determined. The site surveys intent is to gather all information of interest in view of the preparation, installation, configuration, on-site testing and support of the requirement.
- 1.4.6 The Bidder shall refer to the Purchaser all queries for resolution of any conflicts found in information contained in this document in accordance with the procedures set forth in paragraph 2.6 "Request for IFB Clarifications".

1.5 SECURITY

- 1.5.1 This Invitation For Bid has been classified as NATO UNCLASSIFIED. There is a limited number of references classified at NATO RESTRICTED level.
- 1.5.2 Contractor will be required to handle and store classified material to the level of "NATO RESTRICTED " and the Contractor shall have the appropriate facility and personnel clearances of "NATO SECRET". Should a Contractor be unable to perform the Contract due to the fact that the facility clearance has NATO UNCLASSIFIED

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not been provided by their respective national security agency, this lack of clearance cannot be the basis for a claim of adjustment or an extension of schedule, nor the lack of clearance be considered a mitigating circumstance in the case of an assessment of Liquidated Damages or a determination of Termination For Default by the Purchaser.

- 1.5.3 Contractor personnel working at NATO sites are required to possess a security clearance of "NATO SECRET". Contractor personnel without such a clearance, confirmed by the appropriate national security authority and transmitted to the cognisant NATO security officer at least fourteen (14) days prior to the site visit, will be denied access to the site. Denial of such access by the Purchaser may not be used by the Contractor as the basis for a claim of adjustment or an extension of schedule nor can the denial of access be considered a mitigating circumstance in the case of an assessment of Liquidated Damages or a determination of Termination for Default by the Purchaser. Contractor personnel who need System Administrator or Operator privileges when working on NATO SECRET systems shall be required to hold NATO CTS clearances.
- 1.5.4 Bidders are advised that Contract signature will not be delayed in order to allow the processing of security clearances for personnel or facilities and, should the otherwise successful Bidder not be in a position to accept the offered Contract within a reasonable period of time, due to the fact that its personnel or facilities do not possess the appropriate security clearance(s), the Purchaser may determine the Bidder's Offer to be non-compliant and offer the Contract to the next ranking Bidder. In such a case, the Bidder who would not sign the Contract shall be liable for forfeiture of the Bid Guarantee.
- 1.5.5 All documentation, including the IFB itself, all applicable documents and any reference documents provided by the Purchaser are solely to be used for the purpose of preparing a response to this IFB. They are to be safeguarded at the appropriate level according to their classification and reference documents are provided "as is, without any warranty" as to quality or accuracy.

SECTION 2. GENERAL BIDDING INFORMATION

2.1 **DEFINITIONS**

- 2.1.1 In addition to the definitions and acronyms set in the Clause 2 entitled "Definitions of Terms and Acronyms" of the NCI Agency Contract General Contract Provisions Book II, (Part III), the following terms and acronyms, as used in this IFB, shall have the meanings specified below:
- "Bidder": a firm, consortium, or joint venture which submits an offer in 2.1.1.1 response to this solicitation. Bidders are at liberty to constitute themselves into any form of Contractual arrangements or legal entity they desire, bearing in mind that in consortium-type arrangements a single judicial personality shall be established to represent that legal entity. A legal entity, such as an individual, Partnership or Corporation, herein referred to as the "Principal Contractor", shall represent all members of the consortium with the NCI Agency and/or NATO. The "Principal Contractor" shall be vested with full power and authority to act on behalf of all members of the consortium, within the prescribed powers stated in an irrevocable Power of Attorney or equivalent issued to the "Principal Contractor" by all members associated with the consortium. Evidence of authority to act on behalf of the consortium by the "Principal Contractor" shall be enclosed and sent with the Bid. Failure to furnish proof of authority shall be a reason for the Bid being declared noncompliant.
- 2.1.1.2 "Compliance": strict conformity to the requirements and standards specified in this IFB and its attachments.
- 2.1.1.3 "Contractor": the awardee of this solicitation of offers, which shall be responsible for the fulfilment of the requirements established in the prospective Contract.
- 2.1.1.4 "Firm of a Participating Country": a firm legally constituted or chartered under the laws of, and geographically located in, or falling under the jurisdiction of a Participating Country.
- 2.1.1.5 "IFB": Invitation for Bid.
- 2.1.1.6 "Participating Country": any of the NATO nations contributing to the project, namely, (in alphabetical order):

ALBANIA, BELGIUM, BULGARIA, CANADA, CROATIA, CZECH REPUBLIC, DENMARK, ESTONIA, FRANCE, GERMANY, GREECE, HUNGARY, ICELAND, ITALY, LATVIA, LITHUANIA, LUXEMBOURG, THE

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IFB-CO-14314-IEG-C Book I Bidding Instructions NETHERLANDS, NORWAY, POLAND, PORTUGAL, ROMANIA, SLOVAKIA, SLOVENIA, SPAIN, TURKEY, THE UNITED KINGDOM and THE UNITED STATES.

- 2.1.1.7 "Purchaser": The Purchaser is defined as the current NCI Agency or its legal successor.
- 2.1.1.8 "Quotation" or "Bid": a binding offer to perform the work specified in the attached prospective Contract (Book II).

2.2 ELIGIBILITY AND ORIGIN OF EQUIPMENT AND SERVICES

- 2.2.1 As stated in paragraph 2.1.1.6 above only firms from a Participating Country are eligible to engage in this competitive Bidding process. In addition, all Contractors, sub-Contractors and manufacturers, at any tier, must be from Participating Countries.
- 2.2.2 In addition, all Contractors, sub-Contractors and manufacturers, at any tier, must be from and within Participating Countries.
- 2.2.3 None of the work, including project design, labour and services shall be performed other than by firms from and within Participating Countries.
- 2.2.4 No materials or items of equipment down to and including identifiable Subassemblies shall be manufactured or assembled by a firm other than from and within a Participating Country.
- 2.2.5 Unless otherwise authorised by the terms of the prospective Contract, the Intellectual Property Rights (IPR) to all design documentation and related system operating software shall reside in NATO member countries, and no license fees or royalty charges shall be paid by the Contractor to firms, individuals or governments other than within the NATO member community.

2.3 BID DELIVERY AND BID CLOSING

2.3.1 All Bids shall be in the possession of the Purchaser at the e-mail address given below in paragraph 2.3.2 on/or before <u>13:00 hours (Brussels Time) on 29</u> <u>MARCH, MONDAY, 10 MAY 2021</u>, at which time and date Bidding shall be closed.

2.3.2 Bids shall be delivered in electronic format only to the following email address: IFBC014314IEGC@ncia.nato.int

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- 2.3.3 The Bid shall consist of three (3) separate subject emails:
- 2.3.3.1 For the first e-mail the subject line shall read: "IFB-CO-14314-IEG Official Bid for [company name] Part I Administrative Envelope". The e-mail content shall be as described in Paragraph 3.2.2, Part I: Bid Administration Package below, with no password protection to the file and shall be not larger than 20MB total.
- 2.3.3.2 For the second e-mail the subject line shall read: "IFB-CO-14314-IEG Official Bid for [company name] – Part II – Technical Proposal". The e-mail content shall be as described in Paragraph 3.2.2, Part II: Technical Proposal below, with no password protection to the file, and shall be not larger than 20MB total per e-mail. For large Technical Proposals, multiple e-mails may be required to submit the entire package. In such case, Bidders shall clearly indicate the correct order in the e-mail subject line.
- 2.3.3.3 For the second e-mail the subject line shall read: "IFB-CO-14314-IEG Official Bid for [company name] Part III Price Quotation". The e-mail content shall be as described in Paragraph 3.2.2, Part III: Price Proposal below, with no password protection to the file, and shall be not larger than 20MB total.

2.3.4 Late Bids

- 2.3.4.1 Quotations which are delivered to the Purchaser after the specified time and date set forth above for Bid Closing are "Late Bids" and shall not be considered for award.
- 2.3.4.2 It is the responsibility of the Offeror to ensure that the quotation submission is duly completed by the specified quotation closing time and date. If a quotation received at the NCI Agency's facility by electronic data interchange is unreadable to the degree that conformance to the essential requirements of the solicitation cannot be ascertained, the Purchaser will immediately notify the Offeror that the quotation will be rejected unless the Offeror provides clear and convincing evidence:
 - (a) Of the content of the Bid as originally submitted; and,

(b)That the unreadable condition of the bid was caused by Purchaser software or hardware error, malfunction, or other Purchaser mishandling.

2.3.4.3 Bids which are delivered to the Purchaser after the specified time and date set forth above for Bid Closing are "Late Bids" and shall not be considered for award. *Consideration of Late Bid* – The Purchaser considers that it is the

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responsibility of the Bidder to ensure that the Bid submission arrives by the specified Bid Closing Date and Time. A late Bid shall only be considered for award under the following circumstances:

- 2.3.4.3.1 A Contract has not already been awarded pursuant to the Invitation for Bid, and;
- 2.3.4.3.2 The Bid was sent to the e-mail address specified in the IFB and the delay was solely the fault of the Purchaser.

2.4 REQUESTS FOR EXTENSION OF BID CLOSING DATE

2.4.1 Bidders are informed that requests for extension to the closing date for the IFB shall be submitted by the Bidder only through its respective country's NATO Delegation or Embassy to the Purchaser POC indicated in paragraph 2.5.1 below. In accordance with AC/4-D/2261 Final (July 1996 Edition) any request for extension shall be submitted by the respective NATO Delegation or Embassy no later than fourteen (14) days prior to the established Bid closing date. The Purchaser is under no obligation to answer requests submitted after this time. Bidders are advised to submit their request in sufficient time as to allow their respective NATO Delegation or Embassy to the Purchaser within the above time limit.

2.5 PURCHASER'S POINT OF CONTACT

2.5.1 The Purchaser point of contact for all information concerning this solicitation is:

NATO Communications and Information Agency Acquisition Directorate Buidling 302A, Room 110 7010 SHAPE, Belgium Attention: Eva Benson, Contracting Officer

Email: eva.benson@ncia.nato.int

2.6 REQUEST FOR IFB CLARIFICATIONS

- 2.6.1 Bidders, at the earliest stage possible during the solicitation period, are encouraged to query and seek clarification of any matters of a Contractual, administrative and technical nature pertaining to this IFB.
- 2.6.2 All questions and requests for clarification shall be forwarded to the Purchaser via email using the Clarification Request Form provided at BOOK I ANNEX E of this Book I. Such questions shall be forwarded to the point of contact specified in paragraph 2.5.1 above and shall arrive not later than twenty eight NATO UNCLASSIFIED

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(28) calendar days prior to the stated "Bid Closing Date". The Purchaser is under no obligation to answer requests for clarification submitted after this time. Requests for clarification must address the totality of the concerns of the Bidder, as the Bidder will generally not be permitted to revisit areas of the IFB for additional clarification except as noted in paragraph 2.6.3, below.

- 2.6.3 Additional requests for clarification are limited only to the information provided as answers by the Purchaser to Bidder requests for clarification. Such additional requests shall arrive <u>not later than fourteen (14) calendar days</u> before the established Bid Closing Date.
- 2.6.4 It is the responsibility of the Bidders to ensure that all Clarification Requests submitted bear no mark, logo or any other form or sign that may lead to reveal the Bidders' identity in the language constituting the clarification itself. This prescription is not applicable to the means used for the transmission of the clarification (i.e. email or form by which the clarification is forwarded).
- 2.6.5 The Purchaser declines all responsibilities associated to any and all circumstances regardless of the nature or subject matter arising from the Bidders' failure or inability to abide to the prescription in paragraph 2.6.4.
- 2.6.6 The Purchaser may provide for the removal of any form of identification in the body of the clarification request in those instances in which such practice is feasible as well as providing for a re-wording of the clarification request in those cases in which the original language submitted is deemed ambiguous, unclear, subject to different interpretation or revelatory of the Bidder's identity.
- 2.6.7 Bidders are advised that subsequent questions and/or requests for clarification included in a Bid shall neither be answered nor considered for evaluation and may be considered by the Purchaser as grounds for a determination of non-compliance.
- 2.6.8 Except as provided above, all questions will be answered by the Purchaser and the questions and answers (but not the identity of the questioner) will be issued in writing to all prospective Bidders. The Bidders shall immediately inform the Purchaser in the event that submitted question are not reflected in the answers published.
- 2.6.9 The published answers issued by the Purchaser shall be regarded as the authoritative interpretation of the IFB. Amendment to the language of the IFB included in the answers shall be incorporated by the Bidder in his offer.
- 2.6.10 Where the extent of the changes implied by the response to a clarification request is of such a magnitude that the Purchaser deems necessary to issue

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IFB-CO-14314-IEG-C Book I Bidding Instructions revised documentation, the Purchaser will do so by the mean of the issuance of a formal IFB Amendment in accordance with paragraph 2.8 below.

2.6.11 The Purchaser reserves the right to reject clarification requests clearly devised or submitted for the purpose of artificially obtaining an extension of the Bidding time (i.e. clarifications re-submitted using different wording where such wording does not change the essence of the clarification being requested).

2.7 REQUESTS FOR WAIVERS AND DEVIATIONS

2.7.1 Bidders are informed that requests for alteration to, waivers, or deviations from the terms and conditions of this IFB and attached Prospective Contract (Book II) will not be considered after the request for clarification process. Requests for alterations to the other requirements, terms or conditions of the IFB or the Prospective Contract may only be considered as part of the clarification process set forth in paragraph 2.6 above. Requests for alterations to the specifications, terms and conditions of the Contract which are included in a Bid as submitted may be regarded by the Purchaser as a qualification or condition of the Bid and may be grounds for a determination of non-compliance.

2.8 AMENDMENT OF THE IFB

- 2.8.1 The Purchaser may revise, amend or correct the terms, conditions and/or specifications and provisions of the IFB at any time prior to the date set for the Bid Closing. Any and all modifications will be transmitted to all Bidders by an official Amendment designated as such and signed by the Contracting Authority. Such Amendment may be accompanied by an acknowledgement of receipt which the Bidder shall complete and forward to the Purchaser. This process may be part of the clarification procedures set forth in paragraph 2.6 above or may be an independent action on the part of the Purchaser.
- 2.8.2 The Purchaser will consider the potential impact of Amendments on the ability of prospective Bidders to prepare a proper Bid within the allotted time. The Purchaser may extend the "Bid Closing Date" at its discretion and such extension will be set forth in the Amendment document.
- 2.8.3 All Amendments issued by the Purchaser shall also be acknowledged by the Bidder in its Bid by completing the "ANNEX B-2
- 2.8.4 ACKNOWLEDGEMENT OF RECEIPT OF IFB AMENDMENTS and Responses to Clarification Requests" Failure to acknowledge receipt of all Amendments may be grounds to determine the Bid to be non-compliant.

2.9 MODIFICATION AND WITHDRAWAL OF BIDS

2.9.1 Bids, once submitted, may be modified by Bidders, but only to the extent that the modifications are in writing, conform to the requirements of the IFB, and

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are received by the Purchaser prior to the exact time and date established for Bid Closing. Such modifications shall be considered as an integral part of the submitted Bid.

- 2.9.2 Modifications to Bids which arrive after the Bid Closing Date will be considered as "Late Modifications" and will be processed in accordance with the procedure set forth above concerning "Late Bids", except that unlike a "Late Bid", the Purchaser will retain the modification until a selection is made. A modification to a Bid which is determined to be late will not be considered in the evaluation and selection process. If the Bidder submitting the modification is determined to be the successful Bidder on the basis of the unmodified Bid, the modification may then be opened. If the modification makes the terms of the Bid more favourable to the Purchaser, however, reserves the right to award a Contract to the successful Bidder on the basis of the Bid submitted and disregard the late modification.
- 2.9.3 A Bidder may withdraw its Bid at any time prior to Bid Opening without penalty. In order to do so, an authorised agent or employee of the Bidder must provide an original statement of the firm's decision to withdraw the Bid.
- 2.9.4 Except as provided in paragraph 0 below, a Bidder may withdraw its Bid after Bid Opening only by forfeiture of the Bid Guarantee.

2.10 BID VALIDITY

- 2.10.1 Bidders shall be bound by the term of their Bids for a period of <u>twelve</u> (12) <u>months starting from the Bid Closing Date</u> specified in paragraph 2.3.1 above.
- 2.10.2 In order to comply with this requirement, the Bidder shall complete the Certificate of Bid Validity set forth in Annex B-4. Bids offering less than the period of time referred to above for acceptance by the Purchaser may be determined to be non-compliant.
- 2.10.3 The Purchaser will endeavour to complete the evaluation and make an award within the period referred to in paragraph 2.10.1. However, should that period of time prove insufficient to render an award, the Purchaser reserves the right to request an extension of the period of validity of all Bids which remain under consideration for award.
- 2.10.4 Upon notification by the Purchaser of such a request for a time extension, the Bidders shall have the right to:

a) accept this extension of time in which case Bidders shall be bound by the terms of their offer for the extended period of time and the Bid Guarantee and Certificate of Bid Validity extended accordingly; or

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- Purchaser will return to the Bidder its Bid Guarantee in the full amount without penalty.
- 2.10.5 Bidders shall not have the right to modify their Bids due to a Purchaser request for extension of the Bid validity unless expressly stated in such request.

2.11 BID GUARANTEE

2.11.1 The Bid Guarantee shall be submitted by email to the Purchaser either directly by a banking institution or from the Bidder emailing the Bid Guarantee to Treasury at:

NCIAFinanceTreasuryBankGuarantee@ncia.nato.int

- 2.11.2 In either case, the Bidder shall provide an additional copy of the Bid Guarantee in the Bid Administration Volume. Bidders are reminded that the Bid Guarantee shall reflect any extensions to the Bid Validity Date due to extensions in the Bid Closing Date.
- 2.11.3 The Bidder shall furnish with its Bid a guarantee in an amount equal to Three Hundred Thousand Euros (€300,000) with a validity equal to that of the bid as expressed in paragraph 2.10.1. The Bid Guarantee shall be in the form of an an irrevocable, unqualified and unconditional Standby Letter of Credit (SLC) (Annex C) issued by a Belgian banking institution fully governed by Belgian legislation or issued by a non-Belgian financial institution and confirmed by a Belgian banking institution fully governed by Belgian legislation. In the latter case signed original letters from both the issuing institution and the confirming institution must be provided. The confirming Belgian bank shall clearly state that it will guarantee the funds, the drawing against can be made by the NCI Agency at its premises in Belgium. Bid Guarantees shall be made payable to the Treasurer, NCI Agency.
- 2.11.4 Alternatively, a Bidder may elect to post the required Guarantee by certified cheque. If the latter method is selected, Bidders are informed that the Purchaser will cash the cheque on the Bid Closing Date or as soon as possible thereafter.
- 2.11.5 If the Bid Closing Date is extended after a Bidder's financial institution has issued a Bid Guarantee, it is the obligation of the Bidder to have such Bid

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- 2.11.6 Failure to furnish the required Bid Guarantee in the proper amount, and in the proper form and for the appropriate duration by the Bid Closing Date may be cause for the Bid to be determined non-compliant.
- 2.11.7 In the event that a Bid Guarantee is submitted directly by a banking institution, the Bidder shall furnish a copy of said document in the Bid Administration Package.
- 2.11.8 The Purchaser will make withdrawals against the amount stipulated in the Bid Guarantee under the following conditions:
- 2.11.8.1 The Bidder has submitted a Bid and, after Bid Closing Date (including extensions thereto) and prior to the selection the compliant Bid determined to represent the best value, withdraws its Bid, or states that he does not consider its Bid valid or agree to be bound by his Bid; or
- 2.11.8.2 The Bidder has submitted a compliant Bid determined by the Agency to represent the best value, but the Bidder declines to sign the Contract offered by the Agency, such Contract being consistent with the terms of the IFB;
- 2.11.8.3 The Purchaser has offered the Bidder the Contract for execution but the Bidder has been unable to demonstrate compliance with the security requirements of the Contract within a reasonable time; or
- 2.11.8.4 The Purchaser has entered into the Contract with the Bidder but the Bidder has been unable or unwilling to provide the Performance Guarantee required under the terms of the Contract within the time frame required.
- 2.11.9 Bid Guarantees will be returned to Bidders as follows:
- 2.11.9.1 to non-compliant Bidders forty-five (45) days after notification by the Purchaser of a non-compliant Bid (except where such determination is

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challenged by the Bidder; in which case the Bid Guarantee will be returned forty-five (45) days after a final determination of non-compliance);

- 2.11.9.2 to all other unsuccessful Bidders within thirty (30) days following the award of the Contract to the successful Bidder;
- 2.11.9.3 to the successful Bidder upon submission of the Performance Guarantee required by the Contract or, if there is no requirement for such a Performance Guarantee, upon Contract execution by both parties;
- 2.11.10 pursuant to paragraph 0(b) above.
- 2.11.11 "Standby Letter of Credit" or "SLC" as used herein, means a written commitment by a Belgian financial institution either on its own behalf or as a confirmation of the Standby Letter of Credit issued by a non-Belgian bank to pay all or part of a stated amount of money, until the expiration date of the letter, upon presentation by the Purchaser of a written demand therefore. Neither the financial institution nor the Contractor can revoke or condition the Standby Letter of Credit. The term "Belgian financial institution" includes non-Belgian financial institutions licensed to operate in Belgium.

2.12 CANCELLATION OF IFB

2.12.1 The Purchaser may cancel, suspend or withdraw for re-issue at a later date this IFB at any time prior to Contract award. No legal liability on the part of the Purchaser for payment of any sort shall arise and in no event will any Bidder have cause for action against the Purchaser for the recovery of costs incurred in connection with preparation and submission of a Bid in response to this IFB.

2.13 ELECTRONIC TRANSMISSION OF INFORMATION AND DATA

- 2.13.1 The Purchaser will endeavour to communicate answers to requests for clarification and Amendments to this IFB to the prospective Bidders as soon as practicable.
- 2.13.2 Bidders are cautioned that the Purchaser will rely exclusively on electronic mail communication to manage all correspondence related to this IFB, including IFB Amendments and clarifications.
- 2.13.3 Bidders are cautioned that electronic transmission of documentation which contains classified information is not permissible

2.14 SUPPLEMENTAL AGREEMENTS

2.14.1 Bidders are required, in accordance with the certificate Annex B-7 of these Instructions to Bidders, to disclose any prospective Supplemental Agreements

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- 2.14.2 Supplemental Agreements are typically associated with, but not necessarily limited to, national export control regulations, technology transfer restrictions and end user agreements or undertakings.
- 2.14.3 Bidders are cautioned that failure to provide full disclosure of the anticipated requirements and the terms thereof, to the best of the Bidder's knowledge and experience, may result in the Purchaser withholding award of the Contract or cancelling an executed Contract if it is discovered that the terms of such Supplemental Agreements contradict salient conditions of the Prospective Contract to the extent that either key objectives cannot be accomplished or basic Contract principles and Purchaser rights have been abridged.

2.15 NOTICE OF LIMITATIONS ON USE OF INTELLECTUAL PROPERTY DELIVERED TO THE PURCHASER

- 2.15.1 Bidders are instructed to review Claues 30 and 31 of the Contract Special Provisions and Clause 30 of the Contract General Provisions set forth Part III of Book II herein. This Clause sets forth the definitions, terms and conditions regarding the rights of the Parties concerning Intellectual Property developed and/or delivered under this Contract or used as a basis of development under this Contract.
- 2.15.2 Bidders are required to disclose, in accordance with Annex B-10 and Annex B-11, the Intellectual Property proposed to be used by the Bidder that will be delivered with either Background Intellectual Property Rights or Third Party Intellectual Property Rights. Bidders are required to identify such Intellectual Property and the basis on which the claim of Background or Third Party Intellectual Property is made.
- 2.15.3 Bidders are further required to identify any restrictions on Purchaser use of the Intellectual Property that is not in accordance with the definitions and rights set forth in the Contract concerning use or dissemination of such Intellectual Property.
- 2.15.4 Bidders are reminded that restrictions on use or dissemination of Intellectual Property conflicting with the objectives and purposes of the Purchaser as stated in the Prospective Contract may result in a determination of non-compliant Bid.

2.16 MANDATORY QUALITY ASSURANCE AND QUALITY CONTROL STANDARDS

2.16.1 Bidders are requested to note that, in accordance with the Certificate at Annex B-8 hereto, Bidders shall provide documentary evidence that the Bidder possesses a current certification that is compliant with the requirements of NATO UNCLASSIFIED

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- 2.16.2 Bidders shall further demonstrate that such regime is applied within the Bidder's internal organisation, as well as extended to its relationships with Subcontractors.
- 2.16.3 If the Bidder is offering a QA/QC regime that is claimed to be equivalent to AQAP 2110 or ISO 9001:2015, the burden of proof of such equivalency shall be on the Bidder and such evidence of equivalency shall be submitted with the Certificate at Annex B-8 in the Bid Administration Package.
- 2.16.4 Failure to execute this Certificate, or failure to provide documentary evidence of compliance with this requirement may result in a determination of non-compliance for the submitted Bid.

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SECTION 3. BID PREPARATION INSTRUCTIONS

- 3.1 GENERAL
 - 3.1.1 Bidders shall prepare and submit their Bid in accordance with the requirements and format set forth in this IFB. Compliance with all Bid submission requirements is mandatory. Failure to submit a Bid in conformance with the stated requirements may result in a determination of non-compliance by the Purchaser and the elimination of the Bid from further consideration.
 - 3.1.2 Bidders shall prepare their bid in three (3) parts:
 - (a) Administrative Package (Part I): Electronic Submission.
 - (b) Technical Proposal (Part II): Electronic Submission.
 - (c) Price Proposal (Part III): Electronic Submission.
 - 3.1.3 The specific format for each volume is stated in paragraph 3.2.2.
 - 3.1.4 Bidders shall not simply restate the IFB requirements. A Bid shall demonstrate that the Bidder understands the terms, conditions and requirements of the IFB and shall demonstrate the Bidder's ability to provide all the services and deliverables listed in the Schedules of the prospective Contract.
 - 3.1.5 Bidders are informed that the quality, thoroughness and clarity of the Bid will affect the overall scoring of the Bid. Although the Purchaser may request clarification of the Bid, it is not required to do so and may make its assessment on the content of the Bid as written. Therefore, Bidders shall assume that inconsistencies, omissions, errors, lack of detail and other qualitative deficiencies in the submitted Bid will have a negative impact on the final Best Value score.
 - 3.1.6 Partial Bids and/or bids containing conditional statements will be declared non-compliant.
 - 3.1.7 Bidders are advised that the Purchaser reserves the right to incorporate the successful Bidder's Offer in whole or in part by reference in the resulting Contract.
 - 3.1.8 If no specific format has been established for electronic versions, Bidders shall deliver documentation in an electronic format which is best suited for review

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and maintenance by the Purchaser (e.g., Project Master Schedule in MS Project format, Project Highlight Reports in MS Word).

- 3.1.9 Bids and all related documentation shall be submitted in the English language.
- 3.1.10 All documentation submitted as part of the Bid shall be classified no higher than "NATO UNCLASSIFIED".

3.2 PACKAGING AND MARKING OF BIDS

- 3.2.1 The complete Bid shall consist of three distinct and separated parts each of which will be send as an individual electronic submission as described in the following subparagraphs. Detailed requirements for the structure and content of each of these packages are contained in these Bidding Instructions
- 3.2.2 All e-mails submitted shall be less than 20MB and shall not be passwordprotected.

Part	Format and Quantity Details
I: Bid	<u>1 .zip File Submitted by Email not larger than 20MB total , which</u>
Administration	includes:
Package	
	• 1 Scanned PDF copies of the certificates with physical (non-digital)
	signatures of the prescribed certifications
	Copy of the Bid Guarantee: 1 PDF File
	 All of the required contents are outlined in Section 3.3
II: Technical	<u>1 .zip File Submitted by Email, which includes:</u>
Proposal	Volume 1, Engineering Technical, text document: 1 PDF file
	Volume 2, Supportability, text document: 1 PDF file
	Volume 3, Management, text document: 1 PDF file
	Annex: Bid Requirements Cross Reference Matrix (BRCM): 1 Excel file
	✓ This Part shall not be password-protected.
	✓ If necessary, the technical volume may be separated into more
	than one email. Maximum email size per each email is 20MB.
	✓ All of the required contents are outlined in Section 3.4
III: Price	1 .zip File Submitted by Email, which includes:
Proposal	• 1 Excel file, using the Bidding Sheets template provided with the
	IFB
	1 PDF file of the Bidding Sheets "Offer Summary" tab
	✓ All of the required contents are outlined in Section 3.5

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3.2.3 The proposal shall be sent via separate e-mails to the Bid Delivery e-mail address as specified in Paragraph 2.3.2 and in accordance with Paragraph 3.2.2 above.

3.3 PART I – BID ADMINISTRATION PACKAGE

- 3.3.1 The Bid Administration Package must include the copy of the Bid Guarantee required by paragraph 2.11 of the Bidding Instructions to the email address specified in Paragraph 2.3.2. If the Bid Guarantee is sent to the Purchaser directly from the Bidder's bank, a letter, in lieu of the actual Guarantee, shall be included specifying the details of the transmittal and a copy of the Guarantee. Bidders are reminded that the Bid Guarantee shall reflect any extensions to the Bid Validity Date due to extensions in the Bid Closing Date.
- 3.3.2 No information disclosing or contributing to disclose the bid price shall be made part of the Bid Administration volume. Failure to abide to this prescription shall result in the bid being declared non-compliant.
- 3.3.3 The Package shall include the Certificates set forth in Annex B to these Bidding Instructions, signed in the original by an authorised representative of the Bidder. The text of the certificates must not be altered in any way. Within the Package the bidder shall also include the signed electronic copies of the certifications – with physical, not electronic signatures - set forth in Annex B hereto, specifically:
 - a) ANNEX B-1 CERTIFICATE OF LEGAL NAME OF BIDDER
 - ANNEX B-2 ACKNOWLEDGEMENT OF RECEIPT OF IFB AMENDMENTS AND RESPONSES TO CLARIFICATION REQUESTS
 - c) ANNEX B-3 CERTIFICATE OF INDEPENDENT DETERMINATION
 - d) ANNEX B-4 CERTIFICATE OF BID VALIDITY
 - e) ANNEX B-5 CERTIFICATE OF EXCLUSION OF TAXES, DUTIES AND CHARGES
 - f) ANNEX B-6 COMPREHENSION AND ACCEPTANCE OF CONTRACT SPECIAL AND GENERAL PROVISIONS
 - g) ANNEX B-7 DISCLOSURE OF REQUIREMENTS FOR NCI AGENCY EXECUTION OF SUPPLEMENTAL AGREEMENTS
 - h) ANNEX B-8 CERTIFICATE OF COMPLIANCE AQAP 2110 OR ISO 9001:2015 OR EQUIVALENT
 - i) ANNEX B-9 LIST OF PROSPECTIVE SUBCONTRACTORS/Consortium Members
 - j) ANNEX B-10 BIDDER BACKGROUND IPR
 - k) ANNEX B-11 LIST OF SUBCONTRACTORS IPR
 - I) ANNEX B-12 CERTIFICATE OF ORIGIN OF EQUIPMENT, SERVICES, AND INTELLECTUAL PROPERTY
 - m) ANNEX B-13 LIST OF PROPOSED KEY PERSONNEL and Security Clearance

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- n) ANNEX B-14 CERTIFICATE OF PRICE CEILING
- ANNEX B-15 DISCLOSURE OF INVOLVEMENT OF FORMER NCI AGENCY EMPLOYMENT
- p) ANNEX B-16 Comprehension And Intention To Comply With PMIC Exclusion Clause And Conflict Of Interest
- 3.3.4 Concerning Certificate B-9, the Bidder shall identify by name, project role, and country of origin, all sub-contractors whose sub-contract value is expected to equal or exceed EUR 125,000, if any. A list of consortium members shall also be completed and included. If there are no sub- contractors/consortium members involved, the Bidder shall state this separately. The subcontractors listed in this certificate shall be traceable in the Bidding Sheets.
- 3.3.5 Concerning Certificate B-7, Disclosure of Requirements for NCI Agency Execution of Supplemental Agreements, Bidders shall note especially the following:
- 3.3.5.1 If supplemental agreements, such as End-User Certificates or Technical Assistance Agreements, are required by national regulations, these must be submitted with the Bidders Bid. Supplemental agreements submitted after the Bid Closing Date shall not be considered.
- 3.3.6 The terms of supplemental agreements, if necessary, are the Bidders/ Contractors responsibility and shall be totally consistent with the terms of the (Prospective) Contract, and shall not duplicate, negate, or further interpret any provisions of this Contract. The terms of the (Prospective) Contract shall take precedence over the Supplemental Agreement.
- 3.3.7 A problem with the supplemental agreement in any of the areas mentioned previously in this provision may result in a determination that the Bid is not compliant with the terms of the IFB, and in rejection of the Bid, or termination for default of the Contract if the supplemental agreement is submitted after Contract award.
- 3.3.8 Documentation Disclosure of Conflict of Interest
- 3.3.8.1 A Conflict of Interest means that because of other activities or relationships with other persons or entities, a Bidder is unable or potentially unable to render impartial assistance or advice to the Purchaser or the Bidder's objectivity in performing the prospective contract work is, or might be otherwise impaired, or the Bidder has an unfair competitive advantage.
- 3.3.8.2 In compliance with paragraph 4.4.1.5, Bidders and proposed subcontractors detailed at Annex B-9 shall identify all business relationships or personal relationships of staff with the PMIC contractor, including but not limited to those resulting from current or previous (over the last five (5) years) ownership, personal relationships of staff, share of assets, strategic business

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agreements regardless of their nature or financial magnitude of which the Bidders or subcontractors are knowledgeable at the time of bid submission. If any of such relationships could constitute a real or apparent conflict of interest, or could otherwise, in any manner or form, influence or appear to influence the capacity of the Bidder to render unbiased service, Bidders shall, as part of the bid, submit a statement that clearly defines the nature of the apparent or real conflict of interests including a complete description of the relationship, and the individuals subject to the real or apparent conflict, and a plan for the mitigation of the conflict detailing the measures the Bidder has or proposes to put in place for the purpose of preventing unfair advantage in relation to the performance associated with the prospective contract.

3.4 PART II – TECHNICAL PROPOSAL

- 3.4.1 It is of the utmost importance that Bidders respond to all of the technical requirements of the Purchaser Statement of Work, not only with an affirmation of compliance but also with an explanation of how each requirement will be met. To facilitate bidding and the subsequent evaluation of the Bidder's response to the various sections of the Statement of Work (including all Annexes), bids shall be organised and submitted in three (3) volumes as follows:
- 3.4.1.1 Volume 1 Technical covering requirements from Sections 1, 5, 7, 8, 10, 11 and Annex A, C and H of the SOW; and
- 3.4.1.2 Volume 2 Supportability covering requirements from Sections 6, 7, 11, 12, 13, 14, 15 and Annex A, C and F of the SOW.
- 3.4.1.3 Volume 3 Management covering requirements from Sections 1, 2, 3, 4, 5, 6, 7, 9, 10, 14, 15 and Annex A and B of the SOW, and an Executive Summary of the entire Technical Proposal;
- 3.4.2 The mapping of SOW sections to volumes has been done to facilitate a consistent organisation of the Technical Proposal and its subsequent evaluation. Bidders shall adhere to the mapping, even if individual requirements within sections of the SOW may seem to more logically belong in a different volume. Requirements that are answered in Volumes other than as indicated in paragraph 3.4.1 will not be evaluated, thus affecting the Best Value score or in extreme cases resulting in a determination of non-compliance.
- 3.4.3 The proposed Technical Solution shall not be "conditional" in nature. Any comments supplied in the Technical Proposal Package which are conditional

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in nature, relative to the proposed Technical Solution, may result in a determination that the bid is non-compliant.

- 3.4.4 Bidder's responses shall be clearly readable and use a font no smaller than 10 point or 12 point with a Times New Roman or Arial font.
- 3.4.5 Bidding instructions related to each of the three (3) volumes are provided in Sections 3.4.6 through 3.4.8

3.4.6 Volume 1 – Technical

- 3.4.6.1 This volume covers the Technical component of the proposal and will include Architectural aspects, the Integration approach, the design of the Management solution and the Functional coverage of the final IEG-C system.
- 3.4.6.2 In order to assess properly the aforementioned areas, Bidders should pay attention to engineering activity in the IEG-C project from analysis and design through to delivery, testing, verification & validation, implementation, transition and acceptance. A substantial response is expected to the system engineering requirements (SOW Section 5 and 15), site survey and system implementation requirements (SOW Sections 9 and 7), testing, verification & validation process requirements (SOW Section 8), security accreditation process requirements (SOW Section 10), Quality Assurance requirements (SOW Section 11), System Requirements Specification (SRS) (SOW, Annex A), and implementation scope (SOW Annex C).
- 3.4.6.3 System Design Specification (SDS)
- 3.4.6.3.1 The Bidder shall provide an initial System Design Specification (SDS) which describes its proposed technical solution and demonstrates its understanding of the requirements and security requirements as stated in in the SRS (Annex A, SoW).
- 3.4.6.3.2 The Bidder shall provide the initial SDS that follows the outline of SOW Section 15.
- 3.4.6.3.3 The initial SDS shall include an initial Product Breakdown Structure (PBS).
- 3.4.6.3.4 The initial SDS shall demonstrate a comprehensive understanding of all of the requirements of the SRS (SOW, Annex A) and describe how every requirement is addressed in the Bidder's proposed solution.
- 3.4.6.3.5 In particular, the bidder shall provide an initial SDS that describes at a minimum the following information as described in Section 15 of the SoW:

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- (a) System Architecture
- (b) The following Operational and Systems Views, as defined in the NATO Architecture Framework (NAF, [NAC AC/322-D(2007)0048, 2007]):
- (c) NOV-1, High-Level Operational Concept Diagram;
- (d) NSV-1 Systems Interface Description (Composition);
- (e) NSV-1 System Interface Description (Intra System);
- (f) NSV-1 System Interface Description (Inter System);
- (g) NSV-2, Systems Communications Description;
- (h) NSV-2a: System Port Specification;
- (i) NSV-4 System Functionality;
- 3.4.6.3.6 The initial SDS shall address Interface Dependencies and Constraints. In particular all separate interfaces described in the SRS (SOW, Annex A) must be described in the Bidder's design.
- 3.4.6.3.7 The initial SDS shall contain rationale which convinces that performance requirements defined in the SRS (SOW, Annex A) will be met.
- 3.4.6.3.8 The initial SDS shall show clear traceability between the Contractor's design and the mandatory requirements in the SRS (SOW, Annex A).
- 3.4.6.4 Overall System Engineering
- 3.4.6.4.1 For bidding purposes only, in volume 2, the Bidder shall commit to meet all requirements described in SOW Section 7.
- 3.4.6.5 Site survey and System Implementation
- 3.4.6.5.1 The Bidder shall provide an initial System Implementation Plan (SIP), which describes its proposed approach to meeting of the requirements of SOW Section 7.
- 3.4.6.5.2 The initial SIP shall follow the outline from SOW Section 15.
- 3.4.6.5.3 The initial SIP shall cover the entire implementation scope (SOW, Annex C), in terms of sites and quantities of end-entities.
- 3.4.6.5.4 The initial SIP shall demonstrate a clear understanding of the services to be implemented and describe the Bidder's approach to migration of users, devices, and applications.

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- 3.4.6.5.5 The initial Migration Plan included in the initial SIP shall fully describe the Bidder's methodology and approach to the migration, including the stages proposed to be followed, the testing to be done, capabilities proposed and the way in which risks will be managed during the migration process.
- 3.4.6.5.6 For bidding purposes only, the Bidder shall assume that all elements of its design must be provided in full at the implementation stage and that no hardware, software or business processes exist on site in a reusable form.
- 3.4.6.5.7 The initial SIP shall describe the Bidder's approach to site surveys, identify the issues to be checked on site and relate the site survey to the overall implementation effort in terms of timing and purpose, in accordance with SOW sections 7, 9 and 15.
- 3.4.6.5.8 The initial SIP shall identify all information to be collected during site surveys, including locations and facilities which need to be inspected.
- 3.4.6.5.9 The initial SIP shall describe the size of team and level of effort involved for site surveys.
- 3.4.6.5.10 The initial SIP shall describe its proposed arrangements to ensure timely and complete preparation, installation, configuration, on-site testing and support.
- 3.4.6.5.11 The initial SIP shall describe its proposal for the implementation of the IEG-C following the requirements as stated in Section 15.8 of the SoW.
- 3.4.6.5.12 In all descriptions provided, the Bidder shall be clear regarding how its approach minimises disruption to all services.
- 3.4.6.6 Test, Verification, Validation
- 3.4.6.6.1 The Bidder shall provide an initial Master Test Plan (MTP), which describes its proposed approach to meeting the requirements of SOW Section 8.
- 3.4.6.6.2 The initial MTP shall describe a coherent high level approach to testing, verification & validation, providing initial scope and schedule on the TVV phases as required in SOW Section 8, Table 14.
- 3.4.6.6.3 The MTP shall be consistent with other bid documents such as the PMS and the SIP: MTP activities shall be included in the PMS and products shall be described in the PBS.
- 3.4.6.6.4 The Bidder shall provide an initial Defect Reporting and Management Plan, NATO UNCLASSIFIED

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which describes its proposed approach to meeting the requirements of SOW Section 8.

- 3.4.6.6.5 The bidder shall provide 2 exemplary test cases on how to meet two specific requirements SRS-4-141 and SRS-6-70. Test cases shall be compliant with the SOW clauses and templates provided.
- 3.4.6.7 Security Accreditation
- 3.4.6.7.1 The Bidder shall describe their input to the security accreditation documentation in support of the accreditation process as part of the initial PIP in accordance with Section 10 of the SoW:
 - (a) CIS Description
 - (b) Security Risk Assessment (SRA) Report
 - (c) Generic System Interconnection Security Requirements Statement (SISRS)
 - (d) Security Operating Procedures (SecOPs)
 - (e) Security Test and Validation Plan (STVP)
- 3.4.6.7.2 The Bidder shall provide a CIS Description document to include at a minimum but not limited to, the following information:
 - (a) Detailed technical description showing the main components and the high level as well as detailed information flows,
 - (b) Description of all internal and external connections of the system,
 - (c) List of hardware and software components used,
- 3.4.6.7.3 The Bidder shall provide an initial qualitative Security Risk Assessment (SRA), which describes its proposed technical solution and demonstrates its understanding of the requirements in Section 10 of the SOW.
- 3.4.6.7.4 The initial SRA shall be developed in accordance with "Guidelines for Security Risk Management (SRM) of Communication and Information Systems (CIS) (Ref. AC/35-D/1017-REV3)" and include the following:
 - (a) Identification of the scope and objective of the security risk assessment;
 - (b) Determination of the physical, personnel and information assets which contribute to the fulfilment of the IEG-C;
 - (c) Determination of the value of the assets (very low low medium high very high);
 - (d) Identification of the threats and vulnerabilities to the risk environment and their level;
 - (e) Identification of existing security measures (e.g. assertions about physical and personal security measures already in place at NATO sites);

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- (f) Identification of countermeasures proposed in the Bid;
- (g) Determination of of risk value after implementation of security measures listed in points (e) and (f).
- 3.4.6.7.5 The Bidder shall provide an initial Generic System Interconnection Security Requirements Statement (SISRS) that will:
 - (a) Describe the security measures mandated by NATO Security Policy and supporting directives
 - (b) Describe the minimum levels of security deemed necessary to countermeasure the risk(s) identified in a risk assessment;
 - (c) Have a unique identifier for each security requirement;
 - (d) Indicate mandatory and recommended Security Mechanisms (SMs).
 - (e) System Interconnection Security Requirement Statement (SISRS) template under Annex F-1 shall be used. For bidding purposes, this template and initial bid submission will be NATO Unclassified.
- 3.4.6.7.6 The Bidder shall provide initial Security Operating Procedures (SecOPs), to include as a minimum the following procedures:
 - (a) Centralized administration and monitoring of IEG-C;
 - (b) Backup & recovery;
 - (c) Emergency procedures;
 - (d) Security Test and Verfication Plan (STVP) template under Annex F-2 shall be used. For bidding purposes, this template and initial bid submission will be NATO Unclassified.
- 3.4.6.7.7 The initial Sec OPs shall also cover all security requirements identified in the SRA and SSRS which are not fully fulfilled by technical countermeasures.
- 3.4.6.7.8 The Bidder shall provide an initial Security Test and Validation Plan (STVP) that describes the security testing and verification of the CIS Security measures to be implemented. A complete and detailed sequence of steps to be followed proving that the security mechanisms designed into IEG-C enforce the security requirements identified in the SISRS. The STVP shall contain traceability matrix between tests and SISRS requirements.
- 3.4.6.7.9 For each STVP security test the following details shall be identified:
 - (a) The objective of the security test;
 - (b) An outline description of the security test;
 - (c) A description of the execution of the security test (too include technical instructions how to conduct the test);
 - (d) The pass criteria for the security test.

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- (e) Reference to applicable SISRS requirement(s);
- (f) Reference to applicable Security Mechanism(s).
- 3.4.6.7.10 The Bidder shall describe the Security Test and Validation Report (STVR) for every instance of security testing conducted based on the STVP.
- 3.4.6.7.11 For each STVR security test the following details shall be identified:
 - (a) Test ID;
 - (b) An outline description of the security test;
 - (c) Detailed results of the security tests;
 - (d) Test status (e.g. in progress, passed, failed)
 - (e) Test completion (in per cent);
 - (f) Failure severity (e.g. critical, serious, major, less important, none);
 - (g) Test date;
 - (h) Information about who conducted the test;
 - (i) Information about who witness the test
- 3.4.6.7.12 STVR SHALL contain overall test summary details:
 - (a) Identification of the element under tests;
 - (b) Tests starting date;
 - (c) Tests finishing date;
 - (d) Amount of all tests to be conducted;
 - (e) Amount of tests executed;
 - (f) Tests passed;
 - (g) Tests failed;
 - (h) Tests still in progress
- 3.4.6.7.13 The bidders shall provide a supply chain security statement for security enforcing products, according to AC/322-D(2017)0016.
- 3.4.6.7.14 The bidders shall provide a statement confirming that only evaluated boundary protection devices (e.g. guards) have been proposed. The evaluation shall be according to Common Criteria or National equivalent, in accordance with AC/322-D/0030-REV5.
- 3.4.6.7.15 The bidders shall provide a statement confirming that only Tempest tested hardware (compliant with SDIP-29/2) have been proposed. Alternatively bidders can consider and propose usage of Tempest racks (compliant with SDIP-29/2).
- 3.4.6.7.16 Note: There is one reference in the SOW (SDIP 27/2 NATO TEMPEST Requirements and Evaluation Procedures) that is classified as NATO CONFIDENTIAL, but bidders are not required to obtain or reference it

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during the bidding phase.

3.4.7 Volume 2 – Supportability

- 3.4.7.1 This volume of the Technical Proposal covers the Bidder's approach to meeting requirements as described in SOW Section 6 (ILS), SOW Section 7 (Operation and Maintenance), SOW Section 11 (Quality Assurance and Control), SOW Section 12 (Configuration Management), and SOW Annex F (Service Approach).
- 3.4.7.2 Integrated Logistics Support
- 3.4.7.2.1 The Bidder shall provide a draft Integrated Logistics Support Plan in accordance with the SOW requirements including the required sub-sections and content with sufficient details to demonstrate the Bidder's ability to perform the ILS activities.
- 3.4.7.2.2 The Bidder shall demonstrate its understanding and compliance with all the SOW requirements by creating appropriate subsections and detailing the requirements with actual proposed activities.
- 3.4.7.2.3 The Bidder shall provide a detailed approach for the Design Influence (RAMT and LSA) areas for the actual analyses, documenting the analysis, tools, skills and relation with SRS and design in general.
- 3.4.7.2.4 The Bidder shall detail the different Maintenance and Support Levels, the interfaces between these different levels, maintenance and support environment, constraints, locations, procedures, artefacts, organisation, personnel skills, related ITIL processes and responsibilities between different parties to maintain the delivered baselines of the system in different phases of the lifecycle.
- 3.4.7.2.5 The Bidder shall detail its approach for the Initial Operational Support and warranty requirements, details the activities based on each party's responsibilities including the proposed services, response times, organization and planning in accordance with the SOW requirements.
- 3.4.7.2.6 The Bidder shall detail its approach for the Supply Support and PHST requirements and details the proposed activities in accordance with the SOW requirements.
- 3.4.7.2.7 The Bidder shall demonstrate that all ILS activities and milestones are integrated into the project master schedule.

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3.4.7.3 Support Case

- 3.4.7.3.1 The Bidder shall provide a draft Support Case, as detailed in the SOW section 6.4. The Support Case shall provide sufficient details to show the Bidder's approach and capability to perform the required LSA and RAMT studies, including how the proposed design shall take the SOW and SRS RAMT requirements into consideration.
- 3.4.7.3.2 The Bidder shall demonstrate its understanding and compliance with the Support Case requirements by creating appropriate subsections and detailing the requirements with actual proposed activities to show the Bidder's approach and capability to perform the required LSA and RAMT studies, including how the proposed design shall take the SOW and SRS RAMT requirements into consideration.
- 3.4.7.4 Configuration Management
- 3.4.7.4.1 The Bidder shall provide a draft Configuration Management Plan (CMP) which shall describe how Configuration Management shall be performed in accordance with the requirements of the SOW Section 12
- 3.4.7.4.2 The Bidder shall provide details to demonstrate its understanding of the CM process on how it shall be planned, managed, resourced, executed and provided including the organization and personnel, CM tools, directives and standards, meetings, reviews and deliverables (baselines, documents, CMDB etc.).
- 3.4.7.4.3 The Bidder shall provide the Configuration Management Plan in the structure and detailed content in accordance with the SOW requirements including minimum the 'Organization, Configuration identification and Documentation, Baselines, Configuration control, Interface management, Change request Process, Configuration Status Accounting, Configuration Audits and Reviews and Configuration Management Tools'.
- 3.4.7.5 Quality Assurance
- 3.4.7.5.1 The Bidder shall provide a draft Quality Assurance Plan (QAP) which conforms to the requirements detailed in Section 11 of the SOW.
- 3.4.7.5.2 The Bidder shall demonstrate that the Quality Management System is in place for the project in accordance with AQAP-2110 and /or equivalent ISO standards.
- 3.4.7.5.3 The Bidder shall demonstrate its understanding of the QA requirements of

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this project by detailing the QA procedures for requirements analysis, design, development, production, installation, test, acceptance, certification, support, defects and corrective actions, documentation, reviews and audits including subcontractor management specified for this project.

- 3.4.7.6 Training
- 3.4.7.6.1 The Bidder shall provide a draft Training Plan describing how he shall conduct the Training Needs Analysis (TNA), and provide the necessary training courses in accordance with Section 6 of the SOW.
- 3.4.7.6.2 The Bidder shall demonstrates its understanding and compliance with Training Program requirements by explaining how the Bidder will schedule, resource and manage the various training requirements (TNA, training schedule, training courses and material, training tools, media, training personnel, training reviews, meetings, assessment, evaluation and reporting) starting from the contract award until the acceptance.
- 3.4.7.6.3 The Bidder shall demonstrate its understanding of the Training Needs Analysis (TNA) concept based on the references from Bi-Sc and experiences from other projects by explaining how the Training Needs Analysis will be performed with all possible deliverables, inputs and outputs to the process.

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3.4.8 Volume 3 - Management

- 3.4.8.1 This volume covers the Management component of the proposal and will be used to assess Bidder's ability to meet timelines, Bidder's quality of management plans and Bidder's proven experience of successfully implementing similar systems.
- 3.4.8.2 In order to assess properly the aforementioned areas, the volume will include the following elements:
 - (a) Executive Summary
 - (b) Table of Contents for the whole Technical Proposal
 - (c) Overall understanding of Purchaser's requirements by the Bidder
 - (d) Bidder Qualifications and Key Personnel
 - (e) Project management
 - (f) Risk management
 - (g) Schedule management
 - (h) Others
 - (i) Bid-Requirements Cross-Reference Matrix (BRCM)
- 3.4.8.3 Executive Summary
- 3.4.8.3.1 Bidders shall provide an overview of the salient features of their technical proposal in the form of an Executive Summary.
- 3.4.8.3.2 The Executive Summary shall provide a general description of the major points contained in each of the required sections of the technical proposal (i.e. 3 volumes) and shall demonstrate the depth of the Bidder's understanding of: the project, the implementation environment, the problems and risks of project implementation foreseen by the Bidder, as well as the Bidder's ability to communicate high level concepts in an appropriate and succinct manner. The Bidder shall highlight the strengths which it and its team bring to the project in terms of minimising the problems and reducing the risks, while meeting the overall schedule, and the key points of the technical approach. This summary shall not exceed 10 pages.
- 3.4.8.3.3 Bidders shall explicitly state in the Executive Summary that, should their firm be selected and awarded the contract resulting from this solicitation, the delivered product(s) and services shall comply with the requirements of the Statement of Work (including all annexes).
- 3.4.8.4 Table of Contents. Bidders shall compile a detailed Table of Contents which lists not only the section headings but also the major sub-sections, and topic headings of the Bid. Heading, section and subsection titles should be NATO UNCLASSIFIED

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- 3.4.8.5 Overall Understanding of Purchaser's Requirements
- 3.4.8.5.1 The Bid must demonstrate the Bidder's understanding of the Purchaser's requirements as described in the Statement of Work (SOW). The strategic vision behind the IEG-C project, the objectives, constraints and scope must all be addressed and related to the technical solution described in the Bid.
- 3.4.8.6 Bidder Qualifications and Key Personnel
- 3.4.8.6.1 Volume 3 shall describe the company structure and activities of the prime Contractor. The country in which the prime Contractor is registered shall be identified and the size and location(s) of the company headquarters and subsidiary branches described. Within that structure the location and organizational unit of the office which will manage this Contract shall be identified. This section shall also describe the major activities of the company and how they are distributed across the organisation.
- 3.4.8.6.2 The Bid shall provide a description of the corporate capabilities of the Bidder, including corporate experience, corporate structure and individual skills and experience. In particular, the Bidder shall provide evidence of relevant and recent experience in the design, integration, testing, and implementation of projects similar to the IEG-C Project. The Bidder shall provide a section which describes how the experience and expertise of the prime Contractor and all nominated sub-Contractors will contribute to the successful execution of the Contract.
- 3.4.8.6.3 The Bidder shall provide a section which identifies its major proposed sub-Contractors for the Project. Major proposed sub-Contractors, for purposes of this section, refer to the criteria set forth in Clause 10 of the Prospective Contract General Provisions entitled "Sub-Contracts". The Bidder shall identify the firm and the nation of origin and describe the contribution which the sub - Contractor is expected to make to the execution of the project. The Bidder shall also provide rationale for the selection of the sub-Contractor and describe the added value the sub-Contractor will bring to the execution of the project.
- 3.4.8.6.4 Volume 3 shall provide a description of individual skills and experience in relation to the project of all project team members and Subject Matter Experts (SMEs) foreseen to support the project team. The description shall include how each individual expertise and experience will add value to the team.

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- 3.4.8.6.5 Volume 3 shall provide the resumes / Curricula Vitae (CV) and supporting certification documentation (e.g. Prince 2 certificates) of each proposed Key Personnel that meet or exceed the requirements in SOW Section 13.
- 3.4.8.7 Project Management
- 3.4.8.7.1 In order to demonstrate how the Bidder plans to approach the management of the project (according to Section 4 of the SoW), the Bidder shall submit initial versions of the Project Implementation Plan (PIP) to include the Project Management Plan (PMP), of the Work Breakdown Structure (WBS), of the Product Breakdown Structure (PBS) and Product Flow Diagram (PFD); Project Master Schedule (PMS); and identify all activities related to the security accreditation process (according to Section 10 of the SoW).
- 3.4.8.7.2 The Bidder shall submit a preliminary Project Implementation Plan (PIP) in accordance with the requirements of Section 4 and 15 of the SOW, which clearly describes how the Bidder intends to implement the totality of the project in compliance with the contractual requirements and the following specific requirements:
- 3.4.8.7.2.1 Project Overview. The Bidder shall provide the Project Overview which shall provide an executive summary overview of the offered capability. The Project Overview shall also summarise the main features of each of the sections of the Technical Proposal and shall indicate in broad detail how the Project will be executed during the full lifetime of the Project;
- 3.4.8.7.2.2 The PIP shall include a preliminary Project Management Plan (PMP) that defines how the Bidder intends to manage this project from contract signature through Final System Acceptance and throughout any warranty periods. The PMP shall consider all aspects of project management and control and demonstrate how all the critical dates defined in the contract will be met;
- 3.4.8.7.2.3 The PIP shall include a Project Master Schedule (PMS) that shall contain all contract events and milestones for the Project. The PMS shall show all contractual deliverables, their delivery dates, and the tasks associated with them. The PMS shall for each task identify the start and finish dates, duration, predecessors, constraints, and resources. The PMS shall provide network, milestone, and Gantt views, and identify the critical path for the overall project.
- 3.4.8.7.2.4 The Bidder shall provide a statement assuring that all requirements shall be met for the Site Survey in accordance to the requirements stated in Section 9 of the SoW.

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- 3.4.8.7.2.5 The submitted documents shall include sufficient information to demonstrate the Bidder's understanding of the key challenges involved in the IEG-C project, and demonstrate that the Bidder is proposing an approach that can deal with these challenges.
- 3.4.8.8 Project Management Plan (PMP)
- 3.4.8.8.1 The Bidder shall provide an initial PMP following the structure called for in SOW Section 15.
- 3.4.8.8.2 The initial PMP shall demonstrate how the Project Controls required under SOW Section 4 will be implemented during the project. In particular the Bidder shall demonstrate that the Project Management methodology proposed for the project is suitable to the successful execution of the project.
- 3.4.8.8.3 The initial PMP shall demonstrate the project implementation including its management structure and project management processes, personnel assignments, external relationships necessary to provide the capability as required by this Contract.
- 3.4.8.8.4 The initial PMP shall be sufficiently detailed to ensure that the Purchaser is able to assess the Contractor plans with insight into the Contractor's plans, capabilities, and ability to satisfactorily implement the entire project in conformance with the requirements as specified in the SOW.
- 3.4.8.8.5 The initial PMP shall demonstrate that the Bidder has understood the process imposed in SOW Section 15.9 and describe supporting the cycle of design reviews and approvals.
- 3.4.8.9 Product Breakdown Structure (PBS)
- 3.4.8.9.1 The initial PBS shall identify all products and shall distinguish between management products and specialist products in Section 4 and 15 of the SOW.
- 3.4.8.9.2 The PBS shall include a hierarchical diagram of all the products (management products and specialist products), having at its topmost product the final product of the overall project, i.e., the IEG-C System. Describe each product (management products and specialist products) including its quality requirements. The product descriptions shall address sufficient detail to permit management assessment of progress with EVM.

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- 3.4.8.10 Project Master Schedule (PMS)
- 3.4.8.10.1 The Bidder shall submit an initial Project Master Schedule (PMS).
- 3.4.8.10.2 The PMS shall be according to Section 4.4.6 of the SoW.
- 3.4.8.10.3 The initial PMS shall demonstrate in particular include how the bidders plan to apply EVM throught the project implementation duration.
- 3.4.8.10.4 The PMS shall include additional subordinate milestones that the Bidder plans to achieve which make clear the extent of parallel activities and the detailed phasing and dependencies of different activities.
- 3.4.8.10.5 The PMS shall meet the project deadlines (EDC + x months) as described in SOW Section 3.
- 3.4.8.11 Risk Management Plan (RMP)
- 3.4.8.11.1 The Contractor shall describe in the initial RMP how he will implement the Risk Management process according to Section 4 of the SoW, with the minimum details:
 - (a) Overall Risk Management approach
 - (b) Key Risk Management processes
 - (c) Key Risk Categories
 - (d) Risk Prioritization Matrix
 - (e) Risk Management roles and responsibilities
 - (f) Risk Log template which shall at minimum follow the outline recommended in this SOW (see Section 15.2)
- 3.4.8.11.2 The Risk Log shall be in accordance with SOW Section 10.2.
- 3.4.8.11.3 The following risks shall be addressed in the Bid listing the risks, and indicating for each one the following information (but not limited to):
 - (a) Risk identifier: unique code to allow grouping of all information on this risk;
 - (b) Description: brief description of the risk;
 - (c) Risk category (e.g., management, technical, schedule, and cost risks);
 - (d) Impact: effect on the project if this risk were to occur;

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- (e) Probability: estimate of the likelihood of the risk occurring;
- (f) Risk rating (High, Medium, Low);
- (g) Proximity: how close in time is the risk likely to occur;
- (h) Response strategy: avoidance, mitigation, acceptance, transference
- (i) Response plan(s): what actions have been taken/will be taken to counter this risk;
- (j) Owner: who has been appointed to keep an eye on this risk;
- (k) Author: who submitted the risk;
- (I) Date identified: when was the risk first identified;
- (m) Date of last update: when was the status of this risk last checked;
- (n) Status: e.g., closed, reducing, increasing, no change.
- 3.4.8.11.4 As part of the initial PMP, the Bidder shall describe how risks will be managed throughout the execution of the contract in response to the requirements of SOW Section 4.
- 3.4.8.12 Others
- 3.4.8.12.1 Introduction
- 3.4.8.12.1.1 Section 1 of the SOW contains an introduction to the IEG-C project as well as some high level requirements. For bidding purposes, in this volume, a simple affirmation that all requirements will be met is sufficient, unless otherwise stated in this document.
- 3.4.8.12.2 Applicable documents
- 3.4.8.12.2.1 Section 2 of the SOW contains the list of applicable documents. For bidding purposes, in this volume, a simple affirmation that all documents from Section 2 shall be adhered to is sufficient, unless otherwise stated in this document.
- 3.4.8.12.3 Documentation outline
- 3.4.8.12.3.1 Section 15 of the SOW contains outlines of some IEG-C documents to be delivered. For bidding purposes, in this volume, a simple affirmation that all requirements will be met is sufficient. Other sections of these Bidding Instructions will indicate where portions of the bid need to be submitted in accordance with the formats and content described in SOW Section 15.

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3.4.8.12.4 Purchaser Furnished Equipment (PFE)

- 3.4.8.12.5 [Reserved]
- 3.4.8.12.6 The Bid shall demonstrate a clear understanding of PFE and shall describe how the Bidder proposes to make use of / integrate with PFE during the execution of the contract.
- 3.4.8.12.7 Bid-Requirements Cross-Reference Matrix (BRCM)
- 3.4.8.12.8 Volume 1 shall also contain a Bid-Requirements Cross reference Matrix (BRCM) in the format indicated at D of Book I. Bidders shall complete and return the IFB/ Bid Requirements Cross Reference Matrix (BRCM) (see instructions in Book I Annex D) covering the full Prospective Contract and Bidding Instructions where required. It is the Bidders responsibility to ensure that the submitted IFB Cross-Reference Table covers all sections of the IFB technical requirements.

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3.5 PART III – PRICE QUOTATION

- 3.5.1 Package Contents
- 3.5.1.1 One ZIP file submitted by email, containing the completed Bidding Sheets (Excel) provided in Annex A1 of Book I and 1 PDF of the Bidding Sheets "Offer Summary" tab. All documentation stated in Section 3.2.2 shall be submitted.
- 3.5.2 General Rules
- 3.5.2.1 Bidders are advised that the total bid price for price evaluated CLINs 1 through 16 shall not exceed a total of <u>11,289,985EUR</u>. A bid that exceeds this total evaluated bid price ceiling shall be determined to be non-compliant and eliminated from further consideration. Bidders shall execute the certificate at B-14 "Certificate of Price Ceiling" as confirmation of their compliance.
- 3.5.2.2 Bidders shall prepare their Price Quotation by completing the Bidding Sheets referred in Section 3.5.1.1 above, in accordance with the instructions specified in Book I Annex A-2.
- 3.5.2.3 The structure of the Bidding Sheets shall not be changed, other than as indicated elsewhere, nor should any quantity or item description in the Bidding Sheets. The currency(ies) of each Contract Line Item and sub-item shall be shown. Bidders may use one bidding sheet per currency if quoting in multiple currencies. The prices provided shall be intended as the comprehensive total price offered for the fulfilment of all requirements as expressed in the IFB documentation including but not limited to those expressed in the SOW.
- 3.5.2.4 When completing the Bidding Sheets the Bidder shall insert information in all yellow cells of the Bidding Sheets and complete the Pricing Summary as instructed. A price for each specified element needs to be supplied on each CLIN. Prices should not be grouped. The prices and quantities entered on the document shall reflect the total items required to meet the contractual requirements. The total price shall be indicated in the appropriate columns and in the currency quoted. If the price of a line item is expressed in different currencies, these shall be identified, and there shall be as many totals on that line item as there are currencies; unless Bidders choose to use one bidding sheet per currency. In preparing the Price Quotation, Bidders shall

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IFB-CO-14314-IEG-C Book I Bidding Instructions ensure that the prices of the Sub-items total the price of the major item of which they constitute a part.

- 3.5.2.5 Bidders shall <u>furnish Firm Fixed Prices for all required items</u> in accordance with the format set forth in the Instructions for preparation of the Bidding Sheets.
- 3.5.2.6 Bidders shall furnish Firm Fixed Prices for all CLINs as defined in the SOW. Purchaser evaluation of the submitted bids will be on the basis of the complete submission including administrative, price and technical components for all CLINs. The Contract will be awarded for all CLINs, with CLINs 1 through 16 being the basic contract and the work defined for CLINs 17 through 24 being Firm Fixed Price options to the Contract. These options may be exercised by the Purchaser, at the sole discretion of the Purchaser as described in the Book II General and Special Provisions. The Purchaser's decision to exercise any Options will take into consideration the Contractor's successful performance on the basic contract, as well as the availability of the required funding.
- 3.5.2.7 Offered prices shall not be "conditional" in nature. Any comments supplied in the Bidding Sheets or in any part of the bid package which are conditional in nature, relative to the offered prices may result in a determination that the bid is non-compliant.
- 3.5.2.8 Bidders are responsible for the accuracy of their Price Quotations. Price Quotations that have apparent computational errors may have such errors resolved in the Purchaser's favour or, in the case of gross omissions, inconsistencies or errors, may be determined to be non-compliant. In the case of inconsistencies between the electronic version of the Bidding Sheets and the PDF of the Bidding Sheets, the "hard copy" will be considered by the Purchaser to have precedence over the electronic version.
- 3.5.2.9 Bidders shall quote in their own national currency or in EURO. Bidders may also submit bids in multiple currencies including other NATO member states' currencies under the following conditions:
- 3.5.2.9.1 the currency is of a "participating country" in the project, and
- 3.5.2.9.2 the Bidder can demonstrate, either through sub-contract arrangements or in its proposed work methodology, that it will have equivalent expenses in that currency. All major subcontracts and their approximate anticipated value should be listed on a separate sheet and included with the Price Quotation.

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- 3.5.2.10 The Purchaser, by virtue of his status under the terms of Article IX and X of the Ottawa Agreement, is exempt from all direct and indirect taxes (incl. VAT) and all customs duties on merchandise imported or exported.
- 3.5.2.11 Bidders shall therefore <u>exclude</u> from their price Bid all taxes, duties and customs charges from which the Purchaser is exempted by international agreement and are required to certify that they have done so through execution of the Certificate at 0.
- 3.5.2.12 Unless otherwise specified in the instructions for the preparation of Bidding Sheets in Annex A-1, all prices quoted in the proposal shall be on the basis that all deliverable items shall be delivered "Delivery Duty Paid (DDP)" in accordance with the International Chamber of Commerce INCOTERMS ® 2020.
- 3.5.2.13 The Bidder's attention is directed to the fact that Price Quotation shall contain no document and/or information other than the priced copies of the Bidding Sheets. Any other document will not be considered for evaluation.
- 3.5.2.14 All prices bid shall be clearly traceable in the detailed bidding sheets.
- 3.5.2.15 Any adjustment or discount to prices should be clearly traceable to the lowest level of breakdown in the bidding sheets and should not be aggregated or summed. Any lack of clarity or traceability may render the bid non-compliant.
- 3.5.2.16 The Bidder understands that there is no obligation under this contract for the Purchaser to exercise any of the optional line items and that the Purchaser bears no liability should it decide not to exercise the options (totally or partially). Further, the Purchaser reserves the right to order another Contractor (or the same), to perform the tasks described in the optional line items of the current contract through a new contract with other conditions.
- 3.5.2.17 Specific to CLINs 17 through 24, referring to Paragraph 3.5.2.16 above, an illustrative notional scenario is presented below to illustrate how the Purchaser could exercise various Contract Options by additional sites or equipment being required:
- 3.5.2.17.1 Notional Scenario An additional installation is required after contract award.
- 3.5.2.17.2 Purchaser Exercise of Contract Options In this situation, the Purchaser could, under the Contract terms, exercise via a contract amendment the following CLINs:

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17	WP11 Hardware Purchase Optional Sites
18	WP12 Installation of Optional Gateways - IEG-C-13 RSM
19	WP12 Installation of Optional Gateways - IEG-C-14 KFOR
20	WP12 Installation of Optional Gateways - IEG-C-15 EUFOR
21	WP12 Installation of Optional Gateways - IEG-C-16 JFC OS
22	WP12 Installation of Optional Gateways - IEG-C-17 JFC RSM
23	WP12 Installation of Optional Gateways - IEG-C-18 ACP
24	WP12 Installation of Optional Gateways - IEG-C-12 NSF

3.5.2.17.3 In each of the sub-CLINs that could be exercised in the above notional scenario, the hours and unit prices indicated in the Option CLINs for the specific activities corresponding to sub-CLIN items would be used to calculate the firm fixed price of the additional installation to be exercised.

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SECTION 4. BID EVALUATION

- 4.1 GENERAL
 - 4.1.1 The evaluation of Bids will be made by the Purchaser solely on the basis of the requirements specified in this IFB.
 - 4.1.2 All Bids will be evaluated solely using the formulae, evaluation criteria and factors contained herein. Technical Bids will be evaluated strictly against the technical criteria and not against other Technical Bids submitted.
 - 4.1.3 The evaluation of Bids and the determination as to the Best Value Score will be based only on that information furnished by the Bidder and contained in its Bid. The Purchaser shall not be responsible for locating or securing any information that is not identified in the Bid.
 - 4.1.4 The Bidder shall furnish with its Bid all information requested by the Purchaser in Book I, SECTION 3 Bid Preparation Instructions. Significant omissions and/or cursory submissions will result in a reduced Best Value Score and may result in a determination of non-compliance without recourse to further clarification. The information provided by the Bidder in its Bid shall be to a level of detail necessary for the Purchaser to fully comprehend exactly what the Bidder proposes to furnish as well as its approach and methodologies.
 - 4.1.5 During the evaluation, the Purchaser may request clarification of the Bid from the Bidder and the Bidder shall provide sufficient detailed information in connection with such requests as to permit the Purchaser to make a final assessment of the Bid based upon the facts. The purpose of such clarifications will be to resolve ambiguities in the Bid and to permit the Bidder to state its intentions regarding certain statements contained therein. The purpose of the clarification stage is not to elicit additional information from the Bidder that was not contained in the original submission or to allow the Bidder to supplement cursory answers or omitted aspects of the Bid. The Bidder is not permitted any cardinal alteration of the Bid regarding technical matters and shall not make any change to its price quotation at any time.
 - 4.1.6 The Purchaser reserves the right, during the evaluation and selection process, to verify any statements made concerning experience, facilities, or existing designs or materials by making a physical inspection of the Bidder's facilities and capital assets. This includes the right to validate, by physical inspection, the facilities and assets of proposed subContractors.
 - 4.1.7 The evaluation will be conducted in accordance with NATO Infrastructure Bidding Procedures as set forth in the document, and the Best Value evaluation procedures set forth in AC /4-D/2261-ADD2 dated 24 July 2009, and AC/4(2008)0002-REV2 dated 15 July 2015. "Procedures and Practices for Conducting NSIP International Competitive Bidding Using Best Value Methodology". The Bid evaluation methodology to be followed, including the

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top-level evaluation criteria and their weighting factors, were agreed by the NATO Infrastructure Committee.

4.2 BEST VALUE AWARD APPROACH AND BID EVALUATION FACTORS

- 4.2.1 The Contract resulting from this IFB will be awarded to the Bidder whose conforming offer provides the Best Value to NATO, as evaluated by the Purchaser in compliance with the requirements of this IFB and according to the evaluation method specified in this Section 4. The top level criteria are 50% Technical and 50% Price.
- 4.2.2 Upon approval of the price evaluation report, the Contracts Award Board will open the technical weighting scheme and apply the technical weight to the raw Technical Score (TS) to produce the weighted technical score.
- 4.2.3 The weighted Technical Score will be determined according to the following formula:

TS = a%*TS1 + b%*TS2 + c%*TS3

where: TS1, TS2, TS3 \leq 100 are the Technical Scores of each of the authorised second-level or published third-level technical sub-criteria; and a% b% c% are the related weighting factors for each of the second-level or third-level technical sub-criteria adding to 100.

- 4.2.4 The Purchaser's priorities in the evaluation of the Technical Proposal are described in the form of sub criteria in Section 4.5 below. The sub criteria are listed in descending order that reflects the relative importance that the Purchaser places on each sub criterion.
- 4.2.5 A weighting scheme for sub-criteria values has been developed by Purchaser staff not associated with the Technical Evaluation. This weighting scheme has been sealed and is not known to any of the Purchaser staff beyond the originator and the Chairman of the Contracts Award Board, who are not evaluators within the framework of this IFB or in any manner or form are made privy of evaluation information throughout the course of the evaluation process. The weighting scheme remains sealed until Step 4 of the evaluation process, described in Section 4.7.
- 4.2.6 The BV final Score (FS) will be the sum of weighted TS plus Price Score (PS), according to the following formula:

$$FS = PS*50\% + TS*50\% \le 100$$

where: PS = 100*[(1-(Bid Evaluated Price / (2 x Average Bid Evaluated Price))]

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Bid Evaluated Price and Average Bid Evaluated Price will be the investment cost or the Present Value of the system life-cycle cost as per the authorisation, including CLINs 1 to 16 (Base Contract).

4.2.7 The bid having the highest BV final score will be selected as the successful bid unless there is a statistical tie. A statistical tie is deemed to exist when the final scores of the highest scoring bids are within one point of each other; which is resolved by awarding the contract to the bid with the highest weighted technical score.

4.3 EVALUATION PROCEDURE

- 4.3.1 The evaluation will be done in a four step process, as described below:
- 4.3.1.1 Step 1: Administrative Compliance
- 4.3.1.1.1 Bids received will be reviewed for compliance with the mandatory Administrative requirements specified in Section 4.4. Bids not meeting all of the mandatory requirements may be determined to be non-compliant and not further considered in the evaluation or for award.
- 4.3.1.2 Step 2: Technical Evaluation
- 4.3.1.2.1 In Step 2 bids will have their Technical Proposals Packages evaluated against predetermined top-level criteria and identified sub-criteria (see paragraph below), and scored accordingly. This evaluation will result in "raw" or not weighted technical scores against the criteria.
- 4.3.1.2.2 Bidders are advised that any Bid whose Technical Proposal receives a score of less than 20% of the not weighted raw score possible in any of the sub-criteria listed in Section 4.5 of this document may be determined by the Purchaser to be non-compliant and not further considered for award.
- 4.3.1.3 Step 3: Price Evaluation
- 4.3.1.3.1 The Price Quotations of all bids remaining after Step 2 will be opened, evaluated and scored in accordance with Section 4.6.
- 4.3.1.4 Step 4: Determination of Successful Bidder
- 4.3.1.4.1 Upon completion of the Price Evaluation, the Successful Bid will be determined in accordance with Section 4.7 hereafter.

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4.4 EVALUATION STEP 1 - ADMINISTRATIVE COMPLIANCE

- 4.4.1 Bids will be reviewed for compliance with the formal requirements for Bid submission as stated in this IFB and the content of the Administrative Documentation Package. The evaluation of the Administrative Documentation Package will be made on its completeness, conformity and compliance to the requested information. This evaluation will not be scored in accordance with Best Value procedures but is made to determine if a bid complies with the requirements of the Bidding Instructions and Prospective Contract. Specifically, the following requirements shall be verified:
- 4.4.1.1 The Bid was received by the Bid Closing Date and Time;
- 4.4.1.2 The Bid is packaged and marked properly;
- 4.4.1.3 The Bid Administration Package contains the documentation listed in Section3.3 above and complies with the formal requirements established in Section3.1 and 3.2 above;
- 4.4.1.4 The Bidder <u>has not taken exception</u> to the Terms and Conditions of the Prospective Contract or has not qualified or otherwise conditioned its offer on a modification or alteration of the Terms and Conditions or the language of the Statement of Work (including all its Annexes); and
- 4.4.1.5 Evaluation of Conflict of Interest Documentation
- 4.4.1.5.1 The Purchaser will evaluate the Bidder submission as detailed in Section 3.3.8 and resort to the disqualification of the bid in those cases in which it is deemed that the Bidder's relationships with the PMIC existing or Prospective Contractor could constitute a real or apparent conflict of interest, could in any manner or form influence or appear to influence the capacity of the Bidder to render unbiased service or otherwise result in an advantage during the course of the performance under the prospective Contract and any proposed conflict of interest mitigation plan proposed by the Bidder does not satisfactorily resolve the conflict of interest in place.
- 4.4.1.5.2 Conversely, should the Purchaser deem that the Bidder's Conflict of Interest Mitigation Plan adequately addresses the concerns relevant to any conflict of interest, it will make such plan part of any awarded Contract and subject to the stipulation of Clause 27 of the prospective Contract Special Provisions. Equally in those cases where the Bidder declares that no apparent or real conflict of interest exists such condition shall be reflected in any resulting Contract and made subject to the prospective Contract Special Provisions.

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- 4.4.1.5.3 In the event that, during the evaluation of the Bids, the Purchaser would determine or suspect that the Bidder has not disclosed a real or apparent conflict of interest of which it was knowledgeable at the time of Bid submission, in breach of Sections 4.4.1.5.1 and 4.4.1.5.2, Purchaser reserves the right to declare the Bid non-compliant.
- 4.4.2 Subject to the stipulation of Section 4.4.1.1 through 4.4.1.5 Bids failing to conform to the above requirements may be declared non-compliant and may not undergo through further evaluation. Bids that are determined to be administratively compliant will proceed to Step 2, Technical Evaluation.
- 4.4.3 Notwithstanding Section 4.4.2, if it is later discovered in the evaluation of the Technical Proposal or the Price Quotation that the Bidder has taken exception to the Terms and Conditions of the Prospective Contract, or has qualified and/or otherwise conditioned his offer on a modification or alteration of the Terms and Conditions or the language of the Statement of Work (including all its Annexes), the Bidder may be determined to have submitted a non-compliant bid at the point in time of discovery.

4.5 EVALUATION STEP 2 - TECHNICAL EVALUATION

4.5.1 The Technical Proposal will be evaluated against the criteria set forth in Section 4.1.7 above. In this section those criteria will be expanded to identify sub criteria considered important by the Purchaser during bid evaluation. Sub criteria appear in descending order of importance within the criterion of which they form a part. For some sub-criteria, there may be additional supporting factors at the next lower level. These lower level factors are not published here but are predetermined and included in the Technical Evaluation Weighting Scheme sealed before Bid Opening. Within each of the three volumes of the Technical Proposal the criteria and their sub criteria are identified as follows:

4.5.2 Volume 1 - Technical

- 4.5.2.1 Criteria Technical (50% of the Technical Proposal, to assess System architecture, Integration approach, Management solution, Functional coverage).
- 4.5.2.1.1 Third-level sub criteria in descending order of importance:
 - (a) Quality and completeness of the initial System Design Specification (SDS) document, and commitment to meet all System Engineering requirements
 - (b) Quality and completeness of the initial System Implementation Plan (SIP), including site survey process and initial Migration plan.
 - (c) Quality and completeness of the initial Master Test Plan (MTP),
 - (d) Quality and completeness of the Bidder's approach to meeting the security accreditation process requirements

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4.5.3 **Volume 2 – Supportability**

- 4.5.3.1 Criteria Supportability (30% of the Technical Proposal, to assess the quality of the life-cycle support approach)
- 4.5.3.1.1 Third-level sub criteria in descending order of importance and in accordance with Section 3 Supportability:
 - (a) Complete Integrated Support Plan (ILSP) ensuring that the proposed ILS approach is optimized and acceptable according to Section 6 of the SoW and Annex F.
 - (b) Draft Support Case demonstrates that the Design Influence is understood, RAMT and LSA analyses will be performed as required, and will be reflected to design and support solution.
 - (c) Draft Quality Assurance Plan testifies that QA processes are mature and comprehensive, and in accordance to Section 11 of the SoW.
 - (d) Completeness and Quality of the initial Configuration Management Plan (CMP), and in accordance to Section 12 of the SoW.
 - (e) Realistic and credible initial Training Plan, according to Section 6 of the SoW.

4.5.4 Volume 3 - Management

- 4.5.4.1 Criteria Management (20% of the Technical Proposal, to assess ability to meet timelines, quality of management plans, proven experience of successfully implementing similar systems)
- 4.5.4.1.1 Third-level sub criteria in descending order of importance:
 - (a) Quality of the Executive Summary
 - (b) Overall understanding of the objectives / scope / requirements of the IEG-C project
 - (c) Bidder Qualifications and Key Personnel CVs and security clearances
 - (d) Quality and completeness of the initial Project Management Schedule which shows how Project Milestones will be achieved
 - (e) Quality and completeness of the initial Project Implementation Plan and ability to track progress using EVM.
 - (f) Quality and completeness of the initial Risk Management Plan and adequacy of the Bidder's proposal to manage risk throughout the project

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4.6 EVALUATION STEP 3 - PRICE EVALUATION

- 4.6.1 The Bidder's Price Quotation will be first assessed for compliance against the following criteria:
- 4.6.1.1 The Price Quotation meets the requirements set forth in the Bid Preparation Section and the Instructions for Preparation of the Bidding Sheets in Annex A-2 and in particular:
- A. The Bidder has furnished Firm Fixed Prices for all items listed.
- B. All pricing data, i.e., quantities, unit prices, has been provided as reflected in the Bidding Sheets.
- C. Bid prices include all costs for items supplied, delivered, and supported.
- D. All prices have been accurately entered into appropriate columns, and accurately totalled.
- E. The Bidder has provided accurate unit price (where required) and total price for each line item.
- F. The Bidder has provided accurate unit price and total price of each of the subitems it added (if any).
- G. The grand total is accurate.
- H. The currency of all line items has been clearly indicated.
- I. The Bidder has quoted in its own national currency or in the Host Nation currency, Euros. Where multiple currencies including other NATO member states' currencies are quoted, the conditions of Section III, are met.
- J. The Bidder has indicated that in accordance with the treaties governing the terms of business with NATO, it excluded from its prices all taxes, duties and customs charges from which the Purchaser has been exempted.
- K. Price quotes for each individual item(s), and totalled prices are accurate and realistic (based on historic data, and/or market and competitive trends in the specified industrial sector(s)).
- 4.6.1.2 Detailed pricing information has been provided and is adequate, accurate, traceable, and complete; and
- 4.6.1.3 The Price Quotation meets requirements for price realism and balance as described below in Section 4.6.4. and do not exceed the defined ceilings as per Para 3.5.2.1.

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- 4.6.2 A bid which fails to meet the compliance standards defined in this section may be declared non-compliant and may not be evaluated further by the Purchaser.
- 4.6.3 Basis of Price Comparison
- 4.6.3.1 The Purchaser will convert all prices quoted into EURO for purposes of comparison and computation of price scores and compliance with stated price ceilings. The exchange rate to be utilised by the Purchaser will be the average of the official buying and selling rates of the European Central Bank at close of business on the last working day preceding the Bid Closing Date.
- 4.6.3.2 The Evaluated Bid Price to be inserted into the formula specified at Section 4.6.6.1 will be derived from the Grand Total of the Schedule of Supplies and Services calculated as follows:
 - The Sum of the Firm Fixed Prices offered for CLINS 1 through 16, as detailed below:

CLIN Number	CLIN Name
1.0	CLIN 1 (BASE-EVALUATED) - WP 2.1 Achieve FAT
2.0	CLIN 2 (BASE-EVALUATED) - WP 2.2 Installation of the Reference System IEG-C-01 SHAPE
3.0	CLIN 3 (BASE-EVALUATED) - WP2.3 Integration into NATO Enterprise/IEG- C Central Management
4.0	CLIN 4 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-02 SHAPE NRF
5.0	CLIN 5 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-03 SHAPE VJTF
6.0	CLIN 5 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-04 SHAPE Exercise 1
7.0	CLIN 7 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-05 JWC Exercise 1
8.0	CLIN 8 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-06 JWC Exercise 2
9.0	CLIN 9 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-07 EUROCORPS
10.0	CLIN 10 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-08 ARRC
11.0	CLIN 11 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-09 JFC
12.0	CLIN 12 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-10 JFC NRF STBY
13.0	CLIN 13 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-11 JFTC
14.0	CLIN 14 (BASE-EVALUATED) - WP4 Decommissioning Legacy Gateways
15.0	CLIN 15 (BASE-EVALUATED) – WP6 Hardware Procurement

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16.0 CLIN 16 (BASE-EVALUATED) – WP7 Cyber Monitoring

4.6.4 Price Balance and Realism

- 4.6.4.1 In the event that the successful Bidder has submitted a price quotation that is less than two thirds of the average of the remaining compliant bids, the Purchaser must ensure that the successful Bidder has not artificially reduced the offered price to assure contract award. As such, the Purchaser will request the firm to provide clarification of the bid and will inform the national delegation of the firm. In this regard, the Bidder shall provide an explanation to both Purchaser and their national delegation on the basis of one of the following reasons:
- 4.6.4.1.1 An error was made in the preparation of the price quotation. The Bidder must document the nature of the error and show background documentation regarding the preparation of the price quotation that convincingly demonstrates that an error was made by the Bidder. In such a case the Bidder may request to remain in the competition and accept the contract at the bid price, or to withdraw from the competition;
- 4.6.4.1.2 The Bidder has a competitive advantage due to prior experience or internal business/technological processes that demonstrably reduce cost to the Bidder resulting in an offered price that is realistic. The Bidders explanation must support the technical proposal offered and convincingly and objectively describe the competitive advantage of and savings achieved by the advantage over the standard marked costs, practices and technology;
- 4.6.4.1.3 The Bidder understands that the submitted price quotations are unrealistically low in comparison with the level of effort required. In this case, the Bidder is required to estimate the potential loss and show that the financial resources of the Bidder are adequate to withstand such a reduction in revenue.
- 4.6.4.1.4 If a Bidder fails to submit a comprehensive and convincing explanation for one of the based above, the Purchaser shall declare the bid non-compliant and the Bidder will so be notified in accordance with the procedures set forth in paragraph 13(iii)(b) of AC/4-D/2261(1996 Edition). Non-compliance for reasons of bid realism is a basis for lodging a complaint under the dispute procedure.
- 4.6.4.1.5 If the Purchaser accepts the Bidders explanation of a mistake and allows the Bidder to accept the contract at the Bid price or the explanation regarding competitive advantage in convincing, the Bidder shall agree that the supporting pricing data submitted with this bid will be the basis to

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determine fair and reasonable pricing for all subsequent negotiations for modifications or additions to the contract and that no revisions of proposed prices will be made.

- 4.6.5 In the case of incrementally funded projects, the cost and pricing methodology used by the winning Bidder on the base contract will be used as the basis for all follow-on contracts or amendments to the base contract where these are proposed for IC agreement without competition.
- 4.6.6 Determination of the Price Score. Once the technical report has been approved by the Contract Awards Board and all issues of compliance completed, the price quotations will be opened and evaluated. The Price Score shall be determined according to the following formula:
- 4.6.6.1 PS = 100*(1-(Bid Evaluated Price / (2 x Average Bid Evaluated Price))
- 4.6.6.2 where: Bid Evaluated Price and Average Bid Evaluated Price will be the investment cost or the Present Value of the system life-cycle cost as per the authorisation, including CLINs 1 to 16 (Base Contract).

4.7 EVALUATION STEP 4 – CALCULATION OF BEST VALUE SCORES

- 4.7.1 Upon conclusion and approval of the Price Evaluation results, the predetermined third level weighting scheme for the Technical Evaluation will be unsealed and the scores for the Technical, Supportability, Engineering and Management factors will be calculated for each compliant bid. Then all partial scores will be fed into the formula stated in Section 4.2.3 in order to obtain the Best Value Score of each bid.
- 4.7.2 The highest scored bid will be recommended as the Successful Bid.
- 4.7.3 A statistical tie is deemed to exist when the final scores of the highest scoring bids are within one point of each other. The Purchaser will then resolve the statistical tie by awarding the contract to the Bid with the highest weighed technical score.

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BOOK I – ANNEX A

BIDDING SHEETS

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ANNEX A-1

Bidding Sheets

See separate Excel Workbook attached "IFB-CO14314-IEG-C-Book 1 Annex A Bidding Sheets"

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Bidding Sheets

On behalf of the firm stated below I hereby offer the Purchaser the services and deliverables (collectively referred as "ITEMS") set forth in the attached schedules¹, at the specified prices, and subject to the terms and conditions stated in IFB-CO-14314-IEG-C.

Signature:	
Printed Name:	
Title:	
Date:	
Company:	
Bid Reference	

¹ Bidders shall submit in electronic form the cover page and an electronic copy of the worksheets contained in the file "2- IFB-CO-14324-IEG-Bidding Sheets.xls" that was submitted to them as part of the IFB package.

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ANNEX A-2

Instructions for the Preparation of Bidding Sheets

1. INTRODUCTION

Bid pricing requirements as addressed in this Annex are mandatory. Failure to abide to the prescriptions of Bid submission referred in this section may lead to the Bid being declared non-compliant and not being taken into consideration for award.

No alteration of the Bidding sheets including but not limited to quantity indications, descriptions or titles are allowed with the sole exception of those explicitly indicated as allowed in this document. Additional price columns may be added if multiple currencies are Bid, including extra provisions for all totals. Bidders may use one bidding sheet per currency if quoting in multiple currencies.

2. GENERAL REQUIREMENTS

Bidders shall follow the specific instructions provided in each worksheet.

Bidders shall insert information in all yellow cells.

The prices and quantities entered on the document shall reflect the total items required to meet the Contractual requirements. The total price shall be indicated in the appropriate columns.

In preparing the Bidding Sheets, Bidders shall ensure that the prices of the Sub-items total the price of the major item of which they constitute a part.

All metrics (e.g., cost associated with labour) will be assumed to be standard or normalised to 7.6 hour/day, for a five day working week at NATO sites and Contractor facilities located within Europe and 8 hours/day at NATO sites and Contractor facilities located in the United States.

Should the Bid be in other than Euro currency, the award of the Contract will be made in the currency or currencies of the Bid.

Bidders are advised that formulae are designed to ease evaluation of the Bidders Bid have been inserted in the electronic copies of the Bidding Sheets. Notwithstanding this the Bidder remains responsible for ensuring that their figures are correctly calculated and should not rely on the accuracy of the formulae electronic copies of the Bidding Sheets.

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Book I Bidding Instructions If the Bidder identifies an error in the spreadsheet, it should notify the Purchaser who will make a correction and notify all the Bidders of the update.

Any discounted or reduced prices offered by the Bidder must be traceable to a CLIN or CLINs at the lowest level. Prices and detail of the traceability of application of the discount shall be clearly identified in the supporting detail sheets and applied at the unit price level.

3. STRUCTURE OF BIDDING SHEETS

The Bidding Sheets provided in MS Office Excel format are organised according to the following structure:

- Instructions
- Section 1. Offer & CLIN Summary sheets
- Section 2. Detailed Bidding sheetsfor
- Labour, Material, Travel, ODC and Rates

4. COMPLETING SECTION 1 (Offer Summary Sheets)

Section 1 corresponds to the Schedule of Supplies and Services of the Prospective Contract. Each Work Package (WP) included in the Contract is represented by a detailed schedule showing the Contract Line Items (CLINs) included within the scope of the Work Package (Detailed Bidding sheet tabs) and a detailed cost breakdown attached to each WP schedule.

5. COMPLETING SECTION 2 (CLINS Summary Sheet)

5.1 Filling in the Offer Summary

Bidders shall fill in the Offer Summary sheet based on the information provided in the CLIN summary sheet.

5.2 Filling the CLIN Summary Sheet

Bidders shall fill in the CLIN summary sheet based on the information provided in the detailed Bidding sheets (CLIN Price Breakdown sheets). The detailed Bidding sheets are broken down in to the categories listed in Section 5. Bidders are expected to aggregate the prices in the detailed Bidding sheets that make up the line items in the CLIN summary sheet. The line items in the CLIN Summary Sheet shall be all INCLUSIVE of the price being Bid in order to fulfil the requirement for the line item in the CLIN Summary Sheet. Bidders shall make sure that the total price indicated in the Detailed Bidding Sheets matches the price stated in the CLIN summary sheet for the same corresponding CLIN or sub-CLIN, per currency quoted.

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IFB-CO-14314-IEG-C Book I Bidding Instructions Bidders shall make sure that they have filled all delivery dates in yellow and that these dates comply with the time limits specified in each worksheet and are in accordance with the dates proposed in Part IV, SOW.

6. COMPLETING SECTION 2 (Detailed Bidding Sheets)

Bidders are instructed to prepare their cost Bids in sufficient detail to permit thorough and complete evaluation. For each of the CLINs the Bidder shall use the separate Sheets as provided, adding additional sheets if multiple currencies are used; unless Bidders choose to use one bidding sheet per currency. Change the currency in the header of the Sheets if necessary.

6.1 MATERIAL

A. Purchased Parts: Provide a consolidated priced summary of individual material quantities included in the various tasks, orders, or Contract line items being proposed and the basis for pricing.

- 1. Raw Material: Consists of material in a form or state that requires further processing. Provide priced quantities of items required for the Bid. Show total cost.
- 2. Standard Commercial Items: Consists of items that the Bidder normally fabricates, in whole or in part, and that are generally stocked in inventory. Provide an appropriate explanation of the basis for pricing on attached schedule.
- 3. The Bidder shall provide a level of detail down the unique sellable item level (e.g. A server, a laptop, a printer)
- 4. The Bidder shall provide unit prices that shall be EXCLUSIVE of any applicable overhead, general and administrative costs, profit, costs associated to travel, per-diem and/or incidentals as well as Personnel Installation costs at the sites of performance. Factors for overhead shall be applied in the MATERIAL LABOUR OVERHEAD section of the detailed Bidding sheet to the total cost of material.

6.2 DIRECT LABOUR

Show the hourly rate by year and the total hours for the categories and disciplines of direct labour proposed. Unit prices shall be EXCLUSIVE of any applicable overhead, general and administrative costs, profit, costs associated to travel, per-diem and/or incidentals as well as Personnel Installation costs at the sites of performance. Factors for overhead shall be applied in the DIRECT LABOUR OVERHEAD section of the detailed Bidding sheet to the total cost of direct labour.

6.3 SUBCONTRACT LABOUR

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Show the hourly rate by year and the total hours for the categories and disciplines of subContract labour proposed. Unit prices shall be EXCLUSIVE of any applicable overhead, general and administrative costs, profit, costs associated to travel, per-diem and/or incidentals as well as Personnel Installation costs at the sites of performance. Factors for overhead shall be applied in the SUBCONTRACT LABOUR OVERHEAD section of the detailed Bidding sheet to the total cost of subContract labour.

6.4 TRAVEL

Show the number of trips being made, the number of people travelling, the number of days per trip, the cost of traveling (e.g. flight costs), and the daily per diem rate. Insert comments/descriptions/references/explanation of calculation method under the 'Notes' column including the location & reference to SOW.

6.5 OTHER DIRECT COSTS

- Special Tooling/Equipment. Identify and support specific equipment and unit prices. Use a separate schedule if necessary.
- Individual Consultant Services. Identify and support the proposed contemplated consulting. State the amount of services estimated to be required and the consultant's quoted daily or hourly rate.
- Other Costs. List all other direct charge costs not otherwise included in the categories described above (e.g., services of specialized trades, computer services, preservation, packaging and packing, leasing of equipment, ex-pat costs etc.) and provide bases for pricing.

7. GRAND TOTAL

This is the Bidders final Firm Fixed Price total for the identified CLIN or sub-CLIN and should match the price entered in the corresponding Offer Summary Sheet in section 1 of the bidding sheets, per currency quoted.

NOTE: Bidders shall utlize the "Automated Check" tab in the bidding sheet prior to submitting their proposal. Bidders must ensure that this check is successful, before submitting their Bidding Sheets.

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BOOK I – ANNEX B

Prescribed Administrative Forms and Certificates

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ANNEX B-1

CERTIFICATE OF LEGAL NAME OF BIDDER

This Bid is prepared and submitted on behalf of the legal corporate entity specified below:

FULL NAME OF CORPORATION:					
DIVISION (IF APPLICABLE):					
SUB DIVISIC	N (IF APPLICABLE	E):			
OFFICIAL M	AILING ADDRESS				
E-MAIL ADD	RESS:	-			
TELEFAX No:					
POINT OF C	ONTACT REGARD	ING THIS	S BID:		
NAME: POSITION: TELEPHONE:					
ALTERNATI	/E POINT OF CON	TACT:			
NAME: POSITION: TELEPHONE	:	-			
	Signature of auth	orised R	epresentativ	e:	
	Printed Name:				
	Title:				
	Date:				
	Company:				

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ACKNOWLEDGEMENT OF RECEIPT OF IFB AMENDMENTS AND RESPONSES TO CLARIFICATION REQUESTS

I confirm that the following Amendments and responses to Clarification Requests to Invitation for Bid CO-14314-IEG-C have been received and the Bid, as submitted, reflects the content as such.

Amendment Number	Date Issued	Date of Receipt

Signature of Representative: _____

Printed Name: _____

Title:

Date:

Company: _____

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CERTIFICATE OF INDEPENDENT DETERMINATION

- 1. Each Bidder shall certify that in connection with this procurement:
 - a. This Bid has been arrived at independently, without consultation, communication or agreement, for the purpose of restricting competition, with any other Bidder or with any competitor;
 - b. The contents of this bid have not been knowingly disclosed by the Bidder and will not knowingly be disclosed by the Bidder prior to award, directly or indirectly to any other Bidder or to any competitor, and
 - c. No attempt has been made, or will be made by the Bidder to induce any other person or firm to submit, or not to submit, a Bid for the purpose of restricting competition.
- 2. Each person signing this Bid shall also certify that:
 - a. He/she is the person in the Bidder's organisation responsible within that organisation for the decision as to the bid and that he/she has not participated and will not participate in any action contrary to 1(a) through 1(c) above, or
 - b. (i) He/she is not the person in the Bidder's organisation responsible within that organisation for the bid but that he/she has been authorised in writing to act as agent for the persons responsible for such a decision in certifying that such persons have not participated, and will not participate in any action contrary to 1(a) through 1(c) above, and as their agent does hereby so certify, and
 - (ii) He/she has not participated and will not participate in any action contrary to 1(a) through 1(c) above.

Signature:	
Printed Name:	
Title:	
Date:	
Company:	
Bid Reference	

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ANNEX B-4

CERTIFICATE OF BID VALIDITY

I, the undersigned, as an authorised representative of the firm submitting this Bid, do hereby certify that the pricing and all other aspects of our Bid will remain valid for a period of **twelve months** from the Bid Closing Date of this Invitation for Bid.

Signature of aut	horised Representative:	
Printed Name:		
Title:		
Date:		
Company:		

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ANNEX B-5

Company:

CERTIFICATE OF EXCLUSION OF TAXES, DUTIES AND CHARGES

I hereby certify that the prices offered in the price quotation of this Bid exclude all taxes, duties and customs charges from which the Purchaser has been exempted by international agreement.

Signature of authorised Representative:				
Printed Name:				
Title:				
Date:				

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COMPREHENSION AND ACCEPTANCE OF CONTRACT SPECIAL AND GENERAL PROVISIONS

The Bidder hereby certifies that he has reviewed the Special Contract Provisions and the NCI Agency General Provisions set forth in the Prospective Contract, Book II of this Invitation for Bid. The Bidder hereby provides its confirmation that he fully comprehends the rights, obligations and responsibilities of the Contractor as set forth in the Articles and Clauses of the Prospective Contract. The Bidder additionally certifies that the offer submitted by the Bidder is without prejudice, qualification or exception to any of the Terms and Conditions and he will accept and abide by the stated Special and General Provisions if awarded the Contract as a result of this Invitation for Bid.

Signature of authorised Representative:			
Printed Name:			
Title:			
Date:			
Company:			

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DISCLOSURE OF REQUIREMENTS FOR NCI AGENCY EXECUTION OF SUPPLEMENTAL AGREEMENTS

I, the undersigned, as an authorised representative of ______, certify the following statement:

All supplemental agreements, defined as agreements, documents and/or permissions outside the body of the Contract but are expected to be required by my Government, and the governments of my subContractors, to be executed by the NCI Agency, or its legal successors, as a condition of my firm's performance of the Contract, have been identified, as part of the Bid.

These supplemental agreements are listed as follows:

Examples of the terms and conditions of these agreements have been provided in our Offer. The anticipated restrictions to be imposed on NATO, if any, have been identified in our offer along with any potential conflicts with the terms, conditions and specifications of the Prospective Contract. These anticipated restrictions and potential conflicts are based on our knowledge of and prior experience with such agreements and their implementing regulations. We do not certify that the language or the terms of these agreements will be exactly as we have anticipated.

The processing time for these agreements has been calculated into our delivery and performance plans and contingency plans made in the case that there is delay in processing on the part of the issuing government(s).

We recognise that additional supplemental agreements, documents and permissions presented as a condition of Contract performance or MOU signature after our firm would be selected as the successful Bidder may be cause for the NCI Agency, or its legal successors, to determine the submitted Bid to be non-compliant with the requirements of the IFB;

We accept that should the resultant supplemental agreements issued in final form by the government(s) result in an impossibility to perform the Contract in accordance with its schedule, terms or specifications, the Contract may be terminated by the Purchaser at no cost to either Party.

Signature of auth	norised Representative:	
Printed Name:		
Title:		
Date:		
Company:		
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ANNEX B-8

CERTIFICATE OF COMPLIANCE AQAP 2110 OR ISO 9001:2015 OR EQUIVALENT

I hereby certify that ______ (name of Company) possesses and applies Quality Assurance Procedures/Plans that are equivalent to the AQAP 2110 or ISO 9001:2015 as evidenced through the attached documentation¹.

Signature of a	authorised Representative:	

Printed Name:	

Title:

Date:

Company:

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¹ Bidders must attach copies of any relevant quality certification.

ANNEX B-9

LIST OF PROSPECTIVE SUBCONTRACTORS/CONSORTIUM MEMBERS

Name and Address of Sub- Contractor, incl. country of origin/registration	Primary Location of Work	Items/Services to be Provided	Estimated Value of Sub-Contract

Signature:	
Printed Name:	
Title:	
Date:	
Company:	

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ANNEX B-10

BIDDER BACKGROUND IPR

I, the undersigned, as an authorised representative of Bidder ______, warrant, represent, and undertake that:

- A. The Contractor Background IPR specified in the table below will be used for the purpose of carrying out work pursuant to the prospective Contract.
- B. The stated Bidder has and will continue to have, for the duration of the prospective Contract, all necessary rights in and to the Background IPR specified above.

ITEM	DESCRIPTION

C. The Background IPR stated above complies with the terms specified in Clause 32 of the Special Contract Provisions and shall be licensed to the Purchaser according to the terms and conditions specified in the prospective Contract, and more particularly, in accordance with Clause 32 of the Special Contract Provisions and Clause 30 of the NCIA General Contract Provisions.

Signature:	
Printed Name:	
Title:	
Date:	
Company:	
Bid Reference	

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ANNEX B-11

LIST OF SUBCONTRACTORS IPR

I, the undersigned, as an authorised representative of Bidder _____, warrant, represent, and undertake that:

- A. The SubContractor IPR specified in the table below will be used for the purpose of carrying out work pursuant to the prospective Contract.
- B. The stated Bidder has and will continue to have, for the duration of the prospective Contract, all necessary rights in and to the IPR specified above necessary to perform the Contractor's obligations under the Contract.

ITEM	DESCRIPTION

C. The SubContractor IPR stated above complies with the terms specified in Clause 32 of the Special Contract Provisions and shall be licensed to the Purchaser according to the terms and conditions specified in the prospective Contract, and more particularly, in accordance with Clause 32 of the Special Contract Provisions and Clause 30 of the NCIA General Contract Provisions.

Signature:	
Printed Name:	
Title:	
Date:	
Company:	
Bid Reference	

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CERTIFICATE OF ORIGIN OF EQUIPMENT, SERVICES, AND INTELLECTUAL PROPERTY

The Bidder hereby certifies that, if awarded the Contract pursuant to this solicitation, he will perform the Contract subject to the following conditions:

- A. none of the work, including project design, labour and services shall be performed other than by firms from and within participating NATO member countries;
- B. no material or items of equipment down to and including identifiable subassemblies shall be manufactured or assembled by a firm other than from and within a participating NATO member country. (A sub-assembly is defined as a portion of an assembly consisting of two or more parts that can be provisioned and replaced as an entity); and
- C. The intellectual property rights to all design documentation and related system operating software shall reside in NATO member countries, and no license fees or royalty charges shall be paid by the Bidder to firms, individuals or Governments other than within the NATO member countries.

Signature:	
Printed Name:	
Title:	
Date:	
Company:	
Bid Reference	

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LIST OF PROPOSED KEY PERSONNEL WITH SECURITY CLEARANCE INFORMATION

POSITION	NAME	LEVEL OF CLEARANCE	DATES OF VALIDITY	CERTIFYING AUTHORITY	EXPECTED DATE OF RELEASE OF REQUIRED SECURITY CLEARANCE	DESIGNATION PERIOD
Project Manager						EDC thru Contract expiration date
Senior System Engineer Lead (Technical Lead)						EDC thru Contract expiration date
Test Director / Test Engineer						EDC thru Contract expiration date
Other (tbd by Bidder):						EDC thru Contract expiration date

Signature of authorised Representative:

Duinte el Nieue e i	
Printed Name:	

Title:

Date:

Company:

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ANNEX B-14

CERTIFICATE OF PRICE CEILING

I hereby certify that the total price offered in the price quotation of this Bid for CLINs 1 through 16 of the Bidding Sheets does not exceed <u>11,289,985EUR</u> (eleven million two hundred eighty nine and nine hundred eighty five) as described in Section 3.5.2.1of Book I.

If any one or more of the prices proposed by the Bidders are above the ceilings - then the Bid will be declared non-compliant.

Note: No price information of your Bid should be disclosed in the Bid Administration Package nor the Technical Bid Package.

Signature of authorised Representative:

Printed Name:

Title:

Date:

Company: _____

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DISCLOSURE OF INVOLVEMENT OF FORMER NCI AGENCY EMPLOYMENT The Bidder hereby certifies that, in preparing its Bid, the Bidder did not have access to solicitation information prior to such information been authorized for release to Bidders (e.g., draft statement of work and requirement documentation).

The Bidder hereby acknowledges the post-employment measures applicable to former NCI Agency Personnel as per the NCI Agency Code of Conduct. The Bidder hereby certifies that its personnel working as part of the company's team, at any tier, preparing the Bid:



Have not held employment with NCI Agency within the last two years.

Has obtained a signed statement from the former NCI Agency personnel below, who departed the NCI Agency within the last two years, that they were not previously involved in the project under competition (as defined in the extract of the NCI Agency Code of Conduct provided in Annex B of the prospective Contract Provisions):

Employee Name	Former NCIA Position	Current Position	Company

The Bidder also hereby certifies that it does not employ and/or receive services from former NCI Agency Personnel at grades A5 and above or ranks OF-5 and above, who departed the NCI Agency within the last 12 months. This prohibitions covers negotiations, representational communications and/or advisory activities.

Date	:	
Signature	:	
Name & Title	:	
Company	:	
Bid Reference		:

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COMPREHENSION AND INTENTION TO COMPLY WITH PMIC EXCLUSION CLAUSE AND CONFLICT OF INTEREST

- A. I, the undersigned, as an authorised representative of the firm submitting this Bid, do hereby certify that the ______ (FIRM NAME) and its sub Contractors have not participated in support of CO-14171-PMIC Provide Programme Management and Integration Capability (PMIC) and are eligible for Contract award.
- B. The NCI Agency shall not consider mitigation plans regarding this exclusion.
- C. This exclusion clause does not apply to parent companies of the Contractor and their wholly owned subsidiaries provided that the parent company or its subsidiaries provides proof to the satisfaction of the Purchaser that they operate as a separate legal entity in a completely distinguishable and different business domain. Proof as mentioned above may consist of:

i.company's structure ii.roles and responsibilities within structure iii.business domain iv.ownership and control v.and any other proof that will fulfil the purpose of the exclusion clause

- D. The Contractor shall insert the substance of of this clause in all subContracts for work performed under this Contract. It is the responsibility of the Contractor to ensure that their subContractor(s) are made aware of this exclusion clause prior to the subContractor(s) commencing performance under this Contract.
- E. The Contractor agrees that compliance with this exclusion clause is of the essence and that failure to abide to these terms shall constitute sufficient grounds for the Termination for Default of the Contract in accordance with Clause 39 of the NCI Agency Contract General Provisions.

Signature of authorised Repres	sentative:
Printed Name:	
Title:	
Date:	
Company:	
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BOOK I – ANNEX C Bid Guarantee - Standby Letter of Credit

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ANNEX C

BID GUARANTEE - STANDBY LETTER OF CREDIT

Standby Letter of Credit Number:

Issue Date:

Beneficiary:

NCI Agency, Financial Management Office Boulevard Leopold III, B-1110, Brussels Belgium

Expiry Date: _____

- A. We, (issuing bank) hereby establish in your favour our irrevocable standby letter of credit number {number} by order and for the account of (NAME AND ADDRESS OF BIDDER) in the original amount of € 300,000.00 (Three Hundred Thousand Euro). We are advised this Guarantee fulfils a requirement under Invitation for Bid IFB CO-14314-IEG dated ______.
- B. Funds under this standby letter of credit are available to you upon first demand and without question or delay against presentation of a certificate from the NCI Agency Contracting Officer that:
 - (NAME OF BIDDER) has submitted a Bid and, after Bid Closing Date (including extensions thereto) and prior to the selection of the lowest priced, technically compliant Bid, has withdrawn its Bid, or stated that he does not consider its Bid valid or agree to be bound by its Bid, or
 - 2) (NAME OF BIDDER) has submitted a Bid determined by the Agency to be the lowest priced, technically compliant Bid, but (NAME OF BIDDER) has declined to execute the Contract offered by the Agency, such Contract being consistent with the terms of the Invitation for Bid, or
 - 3) The NCI Agency has offered (NAME OF BIDDER) the Contract for execution but (NAME OF BIDDER) has been unable to demonstrate compliance with the security requirements of the Contract within a reasonable time, or
 - 4) The NCI Agency has entered into the Contract with (NAME OF BIDDER) but (NAME OF BIDDER) has been unable or unwilling to provide the Performance Guarantee required under the terms of the Contract within the time frame required.
- C. This Letter of Credit is effective the date hereof and shall expire at our office located at (Bank Address) on ______. All demands for payment must be made prior to the expiry date.
- D. It is a condition of this letter of credit that the expiry date will be automatically extended without Amendment for a period of sixty (60) calendar days from the current or any successive expiry date unless at least thirty (30) calendar days prior to the then current expiry date the NCI Agency Contracting Officer notifies us that the Letter of Credit is not required to be extended or is required to be extended for a shorter duration.

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- E. We may terminate this letter of credit at any time upon sixty (60) calendar days notice furnished to both (NAME OF BIDDER) and the NCI Agency by registered mail.
- F. In the event we (the issuing bank) notify you that we elect not to extend the expiry date in accordance with paragraph 4 D above, or, at any time, to terminate the letter of credit, funds under this credit will be available to you without question or delay against presentation of a certificate signed by the NCI Agency Contracting Officer which states
- G. "The NCI Agency has been notified by {issuing bank} of its election not to automatically extend the expiry date of letter of credit number {number} dated {date} pursuant to the automatic renewal clause (or to terminate the letter of credit). As of the date of this certificate, no suitable replacement letter of credit, or equivalent financial guarantee has been received by the NCI Agency from, or on behalf of (NAME OF BIDDER), and the NCI Agency, as beneficiary, hereby draws on the standby letter of credit number ______ in the amount of € (Amount up to the maximum available under the LOC), such funds to be transferred to the account of the Beneficiary number ______ (to be identified when certificate is presented)."
- H. Such certificate shall be accompanied by the original of this letter of credit and a copy of the letter from the issuing bank that it elects not to automatically extend the standby letter of credit, or terminating the letter of credit.
- I. The Beneficiary may not present the certificate described in paragraph 6 F above until 20 (twenty) calendar days prior to a) the date of expiration of the letter of credit should {issuing bank} elect not to automatically extend the expiration date of the letter of credit, b) the date of termination of the letter of credit if {issuing bank} notifies the Beneficiary that the letter of credit is to be terminated in accordance with paragraph 6 above.
- J. Multiple drawings are allowed.
- K. Drafts drawn hereunder must be marked, "Drawn under {issuing bank} Letter of Credit No. {number}" and indicate the date hereof.
- L. This letter of credit sets forth in full the terms of our undertaking, and this undertaking shall not in any way be modified, amended, or amplified by reference to any document, instrument, or agreement referred to herein (except the International Standby Practices (ISP 98) hereinafter defined) or in which this letter of credit is referred to or to which this letter of credit relates, and any such reference shall not be deemed to incorporate herein by reference any document, instrument, or agreement.
- M. We hereby engage with you that drafts drawn under and in compliance with the terms of this letter of credit will be duly honoured upon presentation of documents to us on or before the expiration date of this letter of credit.
- N. This Letter of Credit is subject to The International Standby Practices-ISP98 (1998 Publication) International Chamber of Commerce Publication No.590.

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BOOK I – ANNEX D

Bid Requirements Cross Reference Matrix (BRCM)

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ANNEX D BID REQUIREMENTS CROSS REFERENCE MATRIX (BRCM)

Please view IFB-CO-14314-IEG-C Excel titled BRCM

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BOOK I – ANNEX E

CLARIFICATION REQUEST FORMS

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ANNEX E

CLARIFICATION REQUEST FORM

INSERT COMPANY NAME HERE INSERT SUBMISSION DATE HERE

	NISTRATIO	N or CONTR	ACTING		
Serial Nr	IFB Book	IFB Section Ref.	QUESTION	ANSWER	Status
A.1					
A.2					
A.3					

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ANNEX E CLARIFICATION REQUEST FORM

INSERT COMPANY NAME HERE INSERT SUBMISSION DATE HERE

TECH	NICAL				
Serial Nr	IFB Book	IFB Section Ref.	QUESTION	ANSWER	Status
T.1					
Т.2					
Т.3					
-					

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ANNEX E CLARIFICATION REQUEST FORM

INSERT COMPANY NAME HERE INSERT SUBMISSION DATE HERE

PRIC	PRICE						
Serial Nr	IFB Book	IFB Section Ref.	QUESTION	ANSWER	Status		
P.1							
P.2							
P.3							

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ANNEX F-1 (TO BE SUBMITTED WITH TECHNICAL PACKAGE)

SYSTEM INTERCONNECTION SECURITY REQUIREMENT STATEMENT (SISRS) FOR

<____> AND <____>
TEMPLATE FOR IEG-C BIDDING PURPOSES ONLY

REFERENCES

[C-M(2002)49] "NATO Security Policy" [AC/35-D/2004] "Primary Directive on CIS Security" [AC/35-D/2005] "Management Directive for CIS" [AC/322-D/0030] "INFOSEC Technical and Implementation Directive on the Interconnection of CIS"

ACRONYMS

BPS: Boundary Protection Services, -7 -

DID: Defence-in-Depth, - 8 -

NCIRC: NATO Computer Incident Response Capability, - 7 -

SPN: Self-protecting Node, - 8 -

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1 <CIS A>

1.1 Data classification and marking of <CIS A>

Highest classification level of the Information processed by Subsystem (mark with X or specify						
NATO	NATO/PfP	NATO/EAPC	NATO/ISAF	NATO/KFOR	Other (please specify)	
CTS	SECRET	CONFIDENTIAL	RESTRICTED	UNCLASSIFIED	Public	

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2 <CIS B>

2.1 Data classification and marking of <CIS B>

Highest classification level of the Information processed by Subsystem (mark with X or specify						
NATO	NATO/PfP	NATO/EAPC	NATO/ISAF	NATO/KFOR	Other (please specify)	
CTS	SECRET	CONFIDENTIAL	RESTRICTED	UNCLASSIFIED	Public	

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3 INTERCONNECTION

3.1 Description of the interconnection

Operational role of the interconnection			
Information Exchange	E-mail:	Web:	File Transfer:
Services to be used	Voice:	VTC:	Encrypted tunnel:
across the			
interconnection			
	Other Information Exchange	ge (please specify):	
High-level architecture/ne			
(Attach high-level network	•		
The diagram should show:			
	he CIS should be recorded		
	itself is a system providing	security services, this sh	ould be indicated and
bounded;	viding Roundary Protoction	Sanviana (PDS) includin	a NATO Computer
	viding Boundary Protection Capability (NCIRC) sensor		
3. not include IP add		s monitoring the intercon	nection,
Describe components	1/63565		
providing Boundary			
Protection Services			
(BPS) used in the			
interconnection.			
Include NATO			
Computer Incident			
Response Capability			
(NCIRC) sensors, if			
applicable			

3.2 Classification and Marking of Information to be Exchanged

Highest Classification Level of the Information to be Exchanged (mark with X or specify)						
NATO	NATO/PfP	NATO/EAPC	NATO/ISAF	NATO/KFOR	Other (please specify)	
CTS	SECRET	CONFIDENTIAL	RESTRICTED		Public	

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4 SECURITY ENVIRONMENTS

4.1 [...]

4.2 Electronic Security Environment – Basic Principles

Are the following Basic Principles applied within the ESE of the				
Intercon	nection?			
Minimality - only the protocols, network	Yes 🗌	No 🗌	N/A 🗌	
services, and the information or data flows				
required to carry out the mission are	Comments:			
installed, configured, and used through the	Comments.			
interconnection				
Least Privilege - system and security	Yes 🗌	No 🗌	N/A 🗌	
administrators and processes that make use				
of the interconnection are only given those	Comments:			
privileges and authorisations required to	Commonito.			
perform their tasks and duties				
Self-protecting Node (SPN) - each	Yes 🔄	No 🔄	N/A 🗌	
interconnected CIS initially treats other CIS				
as untrusted and implements protection	Comments:			
measures to control the exchange of				
information with the other CIS			N//A 🗔	
Defence-in-depth (DID) - protection measures	Yes 🗆	No 🗆	N/A 🗆	
are implemented on various components of the interconnection architecture so that there	0			
is more than one line of defence	Comments:			
Security Implementation Verification - the application of these principles and the	Yes	No 🛄	N/A 🛄	
subsequent implementation of the protection				
measures shall be initially and periodically	Comments:	3		
verified by the appropriate SAA				
torniou by the appropriate onn				

³ Details to be provided in section 8.4

5 SECURITY MEASURES

5.1 Identification, Authentication and Authorisation

[]				
SRB01	Network management (e.g. SNMP) and security management information are subject to strong authentication mechanisms to ensure that only authorised network and security management traffic is processed.	Yes 🗌	No 🗌	N/A 🗌
		Comment:		
SRB02	Network services and security	Yes 🗌	No 🗌	N/A 🗌
	services for the interconnection are mediated and controlled by BPC	Comment:		
	Are the following mechanisms implem	ented for access mediat	ion?	
SRB03	- User authentication	Yes 🗌	No 🗌	N/A
	information	Comment:		
SRB04	- User authorisation	Yes 🗌	No 🗌	N/A
	information	Comment:		
SRB05	- Information object labels	Yes 🗌	No 🗌	N/A
		Comment:	•	
SRB06	- Network communication	Yes 🗌	No 🗌	N/A
	information (e.g. network protocols, IP addresses)	Comment:		
SRB07	- Application layer information	Yes 🗌	No 🗌	N/A
		Comment:		
SRB08	 "white lists", "black lists" 	Yes 🗌	No 🗌	N/A
	(e.g. for IP ranges, file types,	Comment:		
	command types)			

5.2 Data integrity

SRB09	All data exchanged is checked for	Yes 🗌	No 🗌	N/A 🗌
	malicious code	Comments:		
SRB10	The BPS validate the format of all	Yes 🗌	No 🗌	N/A 🗌
	exchanged data to minimize the risk of exploits.	Comments:		
SRB11	The security log data of all BPC is	Yes 🗌	No 🗌	N/A 🗌
	protected from unauthorised reading, modification, and deletion.	Comments:		

5.3 Confidentiality

SRB12	Where data needs to be decrypted and re-encrypted to pass across an interconnection point (for example for content checking), the data confidentiality is maintained while the data is unencrypted	Yes 🗌	No 🗌	N/A 🗌
		Comments:		

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5.4 Availability

SRB13	The recovery options for BPCs and BPS are available	Yes 🗌	No 🗌	N/A 🗌
		Comments:		

5.5 Accountability and Audit

SRB14	Audit alarms are implemented on BPC to permit	Yes 🗌	No 🗌	N/A 🗌
	timely reaction by system administrator and/or security personnel to problems identified by the audit system	Comments		

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ANNEX F-2 (TO BE SUBMITTED WITH TECHNICAL PACKAGE)

SECURITY TEST AND VERIFICATION PLAN (STVP) FOR

<___> TEMPLATE FOR IEG-C BIDDING PURPOSES ONLY

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REFERENCES

[IEG-C SISRS] IEG-C SISRS submitted for Bidding purposes

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6 INTRODUCTION

[...]

7 SCOPE

<PROVIDE INFORMATION ABOUT THE SCOPE OF TESTING FOR EACH TYPE OF SITE (E.G. MANAGEMENT, IEG-C LOCATION).>

< ONLY SECURITY MEASURES COVERED BY IEG-D SISRS ARE TO BE INCLUDED IN THIS STVP>.

8 LIMITATIONS/EXCLUSIONS

<PROVIDE INFORMATION ABOUT APPLICABLE LIMITATIONS (E.G. IN THE POSSIBILITY OF EXECUTING A TEST IN A SPECIFIC DEVELOPMENT STAGE) OR EXCLUSIONS (E.G. ACTIVITIES OUT OF SCOPE)>

9 FINDINGS

The collected findings will be formally documented in the Test Report form in the form of an Excel spreadsheet. For each test case, the following information will be indicated:

- Test results/comments actual results of the tests and/or additional information related to test execution (e.g. explanation why only certain percentage of test was conducted, explanation why test was not conducted or why it is not applicable);
- Status:
 - Passed;
 - Failed;
 - Incomplete if test was partially executed and stopped at certain moment;
 - In progress if test is ongoing when STVP report is produced (e.g. applicable to long-lasting tests);
 - Not applicable;
- Test completion in percentage; test completion shall indicate if test was conducted on all applicable scope or partially. If spot checking was the agreed test method, an indication of executed spot checks versus complete scope shall be provided;
- **Test date** date on which the test was executed;
- Test conducted by Who conducted the test;
- Test witness Who witnessed the test;

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A test summary will be included in the test report.

10 TEST PROCEDURES

For each test case a test procedure is indicated to provide a high level description of the test activities to be performed, cross-referenced to the related security requirements listed in [IEG-C SISRS].

For each test case, the following information is to be identified and provided in a table format:

In the columns in part "Test applicable to":

- "X" indicates that the test is applicable to this type of site;
- "O" indicates that this test may be applicable depending on site-specific requirements;

In the column "Centrally":

- "X" indicates that test shall be executed from centralized management system.

In the column "Locally":

"X" indicates that the test needs to be executed on site. "O" denotes –
 "optional". Test to be executed locally are usually related to physical, personnel and emission security.

In the column "Comments", additional observations, specifically applicable to the scopes/results of the given test case can be provided.

10.1 Physical security

[...]

10.2 Personnel Security

[...]

10.3 Electronic Security

[..]

<IN PART "TEST APPLICABLE TO" ADAPT AMOUNT OF COLUMNS TO RELEVANT TYPES OF SITES E.G. CM – CENTRALIZED MANAGEMENT SITE, IEG-C – SITE WITH IEG-C LOCATION>

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Test	Test procedure (high	Relate d requir ement	Test ap t	plicat o	ole	Tes b cond	e ucte	Expe cted	Comment
ID	level)	s From IEG-C SISRS				Ce ntr ally	Lo cal ly	resul t	Solution

11 DETAILED TEST PROCEDURES

<FOR BIDDING PURPOSES – PROVIDE AN EXAMPLE FOR ONE OF THE HIGH LEVEL TEST PROCEDURES MENTIONED IN SECTION 5.3>

This section lists detailed test procedures for some tests listed in section 5.

Test ID	Preparation/Prerequisites	Detailed test procedure	Criteria for Evaluation

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Book I, Page I- 101 -

Bidding Sheets Instructions

INTRODUCTION & IMPORTA	NT NOTES
	Bidders should note that NCIA has recently updated its bidding sheet template and are encouraged to read the instructions in full for this new version before completing the bidding sheets.
	All bidders are required to submit pricing details to demonstrate the Purchaser's Pricing Principles are being applied as part of their bids. All data submitted in these sheets shall be complete, verifiable and factual and include the required details. Any exclusions may render the bid as non compliant thus removing the bidder from the bidding process.
	Bidders are REQUIRED to complete the "Offer Summary" tab, the "CLIN Summary" tab, as well as the detailed tabs for "Labour", "Material", "Travel", "ODC" and "Rates". Note that input cells are colour coded YELLOW in the "Offer Summary" and the "CLIN Summary" tab. The instructions for the detailed tabs can be found below, as well as in the green boxes within each detailed tab. G&A, Overhead, material handling and other indirect rates do not need to be separately calculated in the detail sheets but must be included in the totals for each category (Labour/Material/Travel/ODC) as appropriate. A list of the direct and indirect rates applied in the bid must also be provided in the "Rates" tab, although they do not need to be linked to any and the detailed calculations. The list of these rates will be requested in pre-contract award from the winning bidder. Note: any information found in GREEN throughout the entire document is provided as an instruction and/or example only.
	Any formulas provided in these bidding sheets are intended only to assist the bidder. Any changes in formula can be made at the bidder's discretions, as long as the detailed costs are clear, traceable and accurate as required. Ultimately the bidder is responsible for ALL values, formulas and calculations within the bidding sheets that are submitted to the Agency.
	 Bids in MULTIPLE CURRENCIES should follow the following instructions: For the "Offer Summary" tab bidders must add "Firm Fixed Price" column to the right of the current table for each additional currency. For the "CLIN Summary" tab, Bidders have 2 options: A) Two columns "Unit Price" and "Total Firm Fixed Price" may be added to the right of the current table for each additional currency of the bid; B) Bidders may duplicate the CLIN Summary tab for each currency bid. For the Detailed tabs Bidders have 2 options: A) Provide all the detailed data for all currencies in the table provided, selecting the individual currencies from the dropdown lists and summing only common currencies together in CLIN Summary/Offer Summary Sheets B) Duplicate the CLIN Summary tab for each currency bid.

DETAILED TABS DESCRIPTION

MATERIAL LABOUR TRAVEL ODCs	The detailed tables are to be completed by the bidder with all columns populated, and shall be expanded to include as many rows as necessary to provide the detail requested. Any unnecessary rows should be deleted (no blank entries). The bidder is required to identify for each item the CLIN it is associated with from the drop down menu. Each column should then be populated using the column-specific instructions in the first row. Bidder may not delete columns within tables, or omit information from columns, but may add columns if necessary, although it's not anticipated this will be needed. Note CLINs with no costs associated with that item should also be selected within the table, and noted that there is no cost within that table for the CLIN. For example, if there is no labour associated with CLIN X.1, Select CLIN X.1 in the first column and then in the second column note "No Labour is associated with this CLIN". This will help to ensure that all the proper detail has been accounted for and properly allocated. Important Note: The Total sum of the "fully burdened" cost column should equal the grand total cost for each category (Labour, Material, etc.) to include profit as well as all indirect rates (G&A/Overhead/Material handling/etc.) associated with that category. These indirect rates must be included in the total firm fixed price on the appropriate detailed tab but are no longer required to be shown as separate calculations at the bidding stage. However, the bidder is required to include the associated indirect costs in the totals of the detailed tab in the base unit costs. Alternatively, the bidder may choose to show these as separate calculations by expanding the table columns to show the additional costs due to these indirect rates (similar to the way profit is calculated). Note again although the detailed indirect rate calculations are not required at the bidding stage, this information will be requested from the winning bidder during pre-contract award discussions.
Rates	As discussed previously in these instructions, the detailed indirect rate calculations are not required to be included in the bidding sheets, although the bidders may chose to do so. However, ALL bidders are required to state the G&A/OH/Material handling and any other indirect rates that they have applied to the bid.

CHECK IF:

'CLIN Summary' total prices match 'Labour' + 'Material' + 'Travel' + 'ODC' total prices

CHECK IS SUCCESSFUL

CLIN	CLIN Summary	Labour + Material + Travel + ODC	Delta	Delta = 0 ?
1.1	0.00	0.00	0.00	TRUE
1.2	0.00	0.00	0.00	TRUE
1.3	0.00	0.00	0.00	TRUE
1.4	0.00	0.00	0.00	TRUE
1.5	0.00	0.00	0.00	TRUE
1.6	0.00	0.00	0.00	TRUE
1.7	0.00	0.00	0.00	TRUE
1.8	0.00	0.00	0.00	TRUE
1.9	0.00	0.00	0.00	TRUE
1.10	0.00	0.00	0.00	TRUE
1.11	0.00	0.00	0.00	TRUE
1.12	0.00	0.00	0.00	TRUE
1.13	0.00	0.00	0.00	TRUE
1.14	0.00	0.00	0.00	TRUE
1.15	0.00	0.00	0.00	TRUE
1.16	0.00	0.00	0.00	TRUE
1.17	0.00	0.00	0.00	TRUE
1.18	0.00	0.00	0.00	TRUE
2.1	0.00	0.00	0.00	TRUE
2.2	0.00	0.00	0.00	TRUE
2.3	0.00	0.00	0.00	TRUE TRUE
2.4	0.00	0.00	0.00	TRUE
2.5	0.00	0.00	0.00	TRUE
2.0	0.00	0.00	0.00	TRUE
2.7	0.00	0.00	0.00	TRUE
2.8	0.00	0.00	0.00	TRUE
2.10	0.00	0.00	0.00	TRUE
2.10	0.00	0.00	0.00	TRUE
3.1	0.00	0.00	0.00	TRUE
3.2	0.00	0.00	0.00	TRUE
3.3	0.00	0.00	0.00	TRUE
3.4	0.00	0.00	0.00	TRUE
3.5	0.00	0.00	0.00	TRUE
3.6	0.00	0.00	0.00	TRUE
3.7	0.00	0.00	0.00	TRUE
3.8	0.00	0.00	0.00	TRUE
3.9	0.00	0.00	0.00	TRUE
3.10	0.00	0.00	0.00	TRUE
3.11	0.00	0.00	0.00	TRUE
3.12	0.00	0.00	0.00	TRUE
3.13	0.00	0.00	0.00	TRUE
3.14	0.00	0.00	0.00	TRUE
4.1	0.00	0.00	0.00	TRUE
4.2	0.00	0.00	0.00	
4.3	0.00	0.00	0.00	TRUE
4.4	0.00	0.00	0.00	TRUE
4.5	0.00	0.00	0.00	TRUE
4.6	0.00	0.00	0.00	TRUE
4.7	0.00	0.00	0.00	TRUE
4.8	0.00	0.00	0.00	TRUE
4.9	0.00	0.00	0.00	TRUE
4.10 4.11	0.00	0.00	0.00	TRUE TRUE
4.11				TRUE
4.12	0.00	0.00	0.00	TRUE
4.15	0.00	0.00	0.00	TRUE
4.14	0.00	0.00	0.00	TRUE
5.1	0.00	0.00	0.00	TRUE
5.2	0.00	0.00	0.00	TRUE
5.3	0.00	0.00	0.00	TRUE
5.4	0.00	0.00	0.00	TRUE
5.5	0.00	0.00	0.00	TRUE
5.6	0.00	0.00	0.00	TRUE
<u> </u>	5.00	0.00	0.00	

Instructions:

Bidders must ensure that this check is successful, before submitting their Bidding Sheets. The check is based on the comparison of the "CLIN Summary" totals per CLIN, versus the summation of "Labour", "Material", Travel", and "ODC" total prices of the corresponding CLIN. Deltas must be zero.

Note: Any formulas existing in the cells are provided only to assist the bidder, and ultimately all calculations are the bidder's responsibility. In case multiple currencies are used and/or rows are added in tabs "Labour", "Material", "Travel", and "ODC", the bidder may alter this table and/or any formulas necessary to demonstrate that this bid is accurate, clear and traceable as required.

	0.00	0.00	0.00	TOULS
5.7	0.00	0.00	0.00	TRUE
5.8	0.00	0.00	0.00	TRUE
5.9	0.00	0.00	0.00	TRUE
5.10	0.00	0.00	0.00	TRUE
6.1	0.00	0.00	0.00	TRUE
6.2	0.00	0.00	0.00	TRUE
6.3	0.00	0.00	0.00	TRUE
6.4	0.00	0.00	0.00	TRUE
6.5	0.00	0.00	0.00	TRUE
6.6	0.00	0.00	0.00	TRUE
6.7	0.00	0.00	0.00	TRUE
6.8	0.00	0.00	0.00	TRUE
6.9	0.00	0.00	0.00	TRUE
6.10	0.00	0.00	0.00	TRUE
7.1	0.00	0.00	0.00	TRUE
7.2	0.00	0.00	0.00	TRUE
7.3	0.00	0.00	0.00	TRUE
7.4	0.00	0.00	0.00	TRUE
7.5	0.00	0.00	0.00	TRUE
7.6	0.00	0.00	0.00	TRUE
7.7	0.00	0.00	0.00	TRUE
7.8	0.00	0.00	0.00	TRUE
7.9	0.00	0.00	0.00	TRUE
7.10	0.00	0.00	0.00	TRUE
8.1	0.00	0.00	0.00	TRUE
8.2	0.00	0.00	0.00	TRUE
8.3	0.00	0.00	0.00	TRUE
8.4				
	0.00	0.00	0.00	TRUE
8.5	0.00	0.00	0.00	TRUE
8.6	0.00	0.00	0.00	TRUE
8.7	0.00	0.00	0.00	TRUE
8.8	0.00	0.00	0.00	TRUE
8.9	0.00	0.00	0.00	TRUE
8.10	0.00	0.00	0.00	TRUE
9.1	0.00	0.00	0.00	TRUE
9.2	0.00	0.00	0.00	TRUE
9.3				
	0.00	0.00	0.00	TRUE
9.4	0.00	0.00	0.00	TRUE
9.5	0.00	0.00	0.00	TRUE
9.6	0.00	0.00	0.00	TRUE
9.7	0.00	0.00	0.00	TRUE
9.8	0.00	0.00	0.00	TRUE
9.9	0.00	0.00	0.00	TRUE
9.10	0.00	0.00	0.00	TRUE
10.1	0.00	0.00	0.00	TRUE
10.2	0.00	0.00	0.00	TRUE
10.3	0.00	0.00	0.00	TRUE
10.4	0.00	0.00	0.00	TRUE
10.5	0.00	0.00	0.00	TRUE
10.6	0.00	0.00	0.00	TRUE
10.7	0.00	0.00	0.00	TRUE
10.8	0.00	0.00	0.00	TRUE
10.9	0.00	0.00	0.00	TRUE
10.9	0.00	0.00	0.00	TRUE
11.1	0.00	0.00	0.00	TRUE
11.2	0.00	0.00	0.00	TRUE
11.3	0.00	0.00	0.00	TRUE
11.4	0.00	0.00	0.00	TRUE
11.5	0.00	0.00	0.00	TRUE
11.6	0.00	0.00	0.00	TRUE
11.7	0.00	0.00	0.00	TRUE
11.8	0.00	0.00	0.00	TRUE
11.9	0.00	0.00	0.00	TRUE
11.10				
	0.00	0.00	0.00	TRUE
12.1	0.00	0.00	0.00	TRUE
12.2	0.00	0.00	0.00	TRUE
12.3	0.00	0.00	0.00	TRUE
12.4	0.00	0.00	0.00	TRUE
12.5	0.00	0.00	0.00	TRUE
12.6	0.00	0.00	0.00	TRUE
12.7	0.00	0.00	0.00	TRUE
12.8	0.00	0.00	0.00	TRUE
120	0.00	0.00	0.00	TRUE
12.9	0.00		0.00	TRUE
12.10	0.00	0.00		
12.10 13.1	0.00	0.00	0.00	TRUE
12.10 13.1 13.2	0.00 0.00		0.00 0.00	TRUE TRUE
12.10 13.1	0.00	0.00		
12.10 13.1 13.2	0.00 0.00	0.00 0.00	0.00	TRUE
12.10 13.1 13.2 13.3	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00	TRUE TRUE

13.7	0.00	0.00	0.00	TRUE
13.8	0.00	0.00	0.00	TRUE
13.9	0.00	0.00	0.00	TRUE
13.10	0.00	0.00	0.00	TRUE
14.1	0.00	0.00	0.00	TRUE
14.2 14.3	0.00	0.00	0.00	TRUE
14.3	0.00	0.00	0.00	TRUE TRUE
15.1	0.00	0.00	0.00	TRUE
15.2	0.00	0.00	0.00	TRUE
15.3	0.00	0.00	0.00	TRUE
15.4	0.00	0.00	0.00	TRUE
15.5	0.00	0.00	0.00	TRUE
15.6	0.00	0.00	0.00	TRUE
15.7 15.8	0.00	0.00	0.00	TRUE
15.8	0.00	0.00	0.00	TRUE TRUE
16.1	0.00	0.00	0.00	TRUE
16.2	0.00	0.00	0.00	TRUE
16.3	0.00	0.00	0.00	TRUE
16.4	0.00	0.00	0.00	TRUE
16.5	0.00	0.00	0.00	TRUE
16.6	0.00	0.00	0.00	TRUE
16.7	0.00	0.00	0.00	TRUE
16.8 17.1	0.00	0.00	0.00	TRUE TRUE
17.1	0.00	0.00	0.00	TRUE
17.3	0.00	0.00	0.00	TRUE
17.4	0.00	0.00	0.00	TRUE
17.5	0.00	0.00	0.00	TRUE
17.6	0.00	0.00	0.00	TRUE
17.7	0.00	0.00	0.00	TRUE
17.8	0.00	0.00	0.00	TRUE
18.1	0.00	0.00	0.00	TRUE
18.2 18.3	0.00	0.00	0.00	TRUE TRUE
18.4	0.00	0.00	0.00	TRUE
18.5	0.00	0.00	0.00	TRUE
18.6	0.00	0.00	0.00	TRUE
18.7	0.00	0.00	0.00	TRUE
18.8	0.00	0.00	0.00	TRUE
18.9	0.00	0.00	0.00	TRUE
18.10	0.00	0.00	0.00	TRUE
18.11 19.1	0.00	0.00	0.00	TRUE TRUE
19.1	0.00	0.00	0.00	TRUE
19.3	0.00	0.00	0.00	TRUE
19.4	0.00	0.00	0.00	TRUE
19.5	0.00	0.00	0.00	TRUE
19.6	0.00	0.00	0.00	TRUE
19.7	0.00	0.00	0.00	TRUE
19.8	0.00	0.00	0.00	TRUE
19.9 19.10	0.00	0.00	0.00	TRUE
19.10	0.00	0.00	0.00	TRUE TRUE
20.1	0.00	0.00	0.00	TRUE
20.2	0.00	0.00	0.00	TRUE
20.3	0.00	0.00	0.00	TRUE
20.4	0.00	0.00	0.00	TRUE
20.5	0.00	0.00	0.00	TRUE
20.6	0.00	0.00	0.00	TRUE
20.7 20.8	0.00	0.00	0.00	TRUE TRUE
20.8	0.00	0.00	0.00	TRUE
20.3	0.00	0.00	0.00	TRUE
20.11	0.00	0.00	0.00	TRUE
21.1	0.00	0.00	0.00	TRUE
21.2	0.00	0.00	0.00	TRUE
21.3	0.00	0.00	0.00	TRUE
21.4	0.00	0.00	0.00	TRUE
21.5	0.00	0.00	0.00	TRUE
21.6 21.7	0.00	0.00	0.00	TRUE TRUE
21.7	0.00	0.00	0.00	TRUE
21.9	0.00	0.00	0.00	TRUE
21.10	0.00	0.00	0.00	TRUE
21.11	0.00	0.00	0.00	TRUE
22.1	0.00	0.00	0.00	TRUE
22.2	0.00	0.00	0.00	TRUE
22.3	0.00	0.00	0.00	TRUE

22.4	0.00	0.00	0.00	TRUE
22.5	0.00	0.00	0.00	TRUE
22.6	0.00	0.00	0.00	TRUE
22.7	0.00	0.00	0.00	TRUE
22.8	0.00	0.00	0.00	TRUE
22.9	0.00	0.00	0.00	TRUE
22.10	0.00	0.00	0.00	TRUE
22.11	0.00	0.00	0.00	TRUE
23.1	0.00	0.00	0.00	TRUE
23.2	0.00	0.00	0.00	TRUE
23.3	0.00	0.00	0.00	TRUE
23.4	0.00	0.00	0.00	TRUE
23.5	0.00	0.00	0.00	TRUE
23.6	0.00	0.00	0.00	TRUE
23.7	0.00	0.00	0.00	TRUE
23.8	0.00	0.00	0.00	TRUE
23.9	0.00	0.00	0.00	TRUE
23.10	0.00	0.00	0.00	TRUE
23.11	0.00	0.00	0.00	TRUE
24.1	0.00	0.00	0.00	TRUE
24.2	0.00	0.00	0.00	TRUE
24.3	0.00	0.00	0.00	TRUE
24.4	0.00	0.00	0.00	TRUE
24.5	0.00	0.00	0.00	TRUE
24.6	0.00	0.00	0.00	TRUE
24.7	0.00	0.00	0.00	TRUE
24.8	0.00	0.00	0.00	TRUE
24.9	0.00	0.00	0.00	TRUE
24.10	0.00	0.00	0.00	TRUE
24.11	0.00	0.00	0.00	TRUE

CLIN Number	CLIN DESCRIPTION	Firm Fixed Price
	Declare Currency =>	Euro (EUR)
Grand Tota	Firm fixed Price - Base Contract	-
Grand Tota	Firm fixed Price - Base Contract + Non-Evaluated Options	-
1.0	CLIN 1 (BASE-EVALUATED) - WP 2.1 Achieve FAT	-
2.0	CLIN 2 (BASE-EVALUATED) - WP 2.2 Installation of the Reference System IEG-C-01 SHAPE	-
3.0	CLIN 3 (BASE-EVALUATED) - WP2.3 Integration into NATO Enterprise/IEG-C Central Management	-
4.0	CLIN 4 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-02 SHAPE NRF	-
5.0	CLIN 5 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-03 SHAPE VJTF	-
6.0	CLIN 5 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-04 SHAPE Exercise 1	-
7.0	CLIN 7 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-05 JWC Exercise 1	-
8.0	CLIN 8 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-06 JWC Exercise 2	-
9.0	CLIN 9 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-07 EUROCORPS	-
10.0	CLIN 10 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-08 ARRC	-
11.0	CLIN 11 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-09 JFC	-
12.0	CLIN 12 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-10 JFC NRF STBY	-
13.0	CLIN 13 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-11 JFTC	-
14.0	CLIN 14 (BASE-EVALUATED) - WP4 Decommissioning Legacy Gateways	-
15.0	CLIN 15 (BASE-EVALUATED) - WP6 Hardware Purchase Mandatory Sites	-
16.0	CLIN 16 (BASE-EVALUATED) - WP7 Cyber Monitoring Capability (former NCIRC)	-
Total Firm I	ixed Price- Base Contract	-
17.0	CLIN 17 (OPTION-NON EVALUATED) - WP11 Hardware Purchase Optional Sites	-
18.0	CLIN 18 (OPTION-NON EVALUATED) - WP12 Installation of Optional Gateways - IEG-C-13 RSM	-
19.0	CLIN 19 (OPTION-NON EVALUATED) - WP12 Installation of Optional Gateways - IEG-C-14 KFOR	-
20.0	CLIN 20 (OPTION-NON EVALUATED) - WP12 Installation of Optional Gateways - IEG-C-15 EUFOR	-
21.0	CLIN 21 (OPTION-NON EVALUATED) - WP12 Installation of Optional Gateways - IEG-C-16 JFC OS	-
22.0	CLIN 22 (OPTION-NON EVALUATED) - WP12 Installation of Optional Gateways - IEG-C-17 JFC RSM	-
23.0	CLIN 23 (OPTION-NON EVALUATED) - WP12 Installation of Optional Gateways - IEG-C-18 ACP	-
24.0	CLIN 24 (OPTION-NON EVALUATED) - WP12 Installation of Optional Gateways - IEG-C-12 NSF	-
Total Firm I	ixed Price Non-Evaluated Options	-

Offer Summary Instructions:

Bidders are to populate all yellow cells. Firm fixed prices need to be provided for every CLIN, with no omissions.

Note any formulas existing in the cells are provided only to assist the bidder, and ultimately all calculations are the bidder's responsibility. As such, the contractor may alter any formulas necessary to provide an accurate, clear and traceable bid as required.

Important Note: The Total sum firm fixed price column in this "Offer Summary" sheet should equal the grand total from the "CLIN Summary" tab. These totals are also required to be traceable to the totals from the details tabs (Labour+Material+Travel+ODCs)= Grand Total= CLIN Summary Tab. The "Automatic Checks" tab provides a limited number of checks to help the bidder ensure the bid is accurate and traceable.

CLIN				
Number	CLIN DESCRIPTION	Firm Fixed Price	Firm Fixed Price	Firm Fixed Price
Currency		Euro (EUR)	US Dollar (USD)	UK Pound sterling (GBP
CLIN 1	Insert Base Contract CLIN Description here			
CLIN 2	Insert Base Contract CLIN Description here			
CLIN 3	Insert Base Contract CLIN Description here			
CLIN 4	Insert Base Contract CLIN Description here			
CLIN 5	Insert Base Contract CLIN Description here			
CLIN 6	Insert Base Contract CLIN Description here			
CLIN 7	Insert Base Contract CLIN Description here			
CLIN 8	Insert Base Contract CLIN Description here			

IFB-CO	-14314-IEG-C								
BASE CO									
								Total Firm Fixed Investment or	
CLIN	Description	SOW Reference	Required Completion Date	Delivery Destination	Delivery Form	Unit of measure Qua	antity Unit Price	Price O&M	Comments (optional)
1.0	CLIN 1 (BASE-EVALUATED) - WP 2.1 Achieve FAT						Declare Currency =>	Euro (EUR)	
1.1	Project Management Plan(s) and Documents	Section 4	EDC + 4 Weeks	Project Website	Meeting, Electronic	set	1	- Investment	
1.2	System Requirements Analysis and Review	Section 3.3	EDC + 2 Months	Project Website	Meeting, Electronic		1	- Investment	
1.3	System Design (Preliminary Design Review)	Section 3.4	EDC + 3 Months	Project Website	Meeting, Electronic		1	- Investment	
1.4 1.5	System Design (Critical Design Review) Replicate NS and MS environments for tests	Section 3.5 Section 5.1	EDC + 6 Months EDC + 9 Months	Project Website Contractor Premises	Meeting, Electronic HW/SW/Labour/Electronic		1	- Investment - Investment	
1.5	System Design (Factory Acceptance Tests)	Section 3.6	EDC + 9 Months	Project Website	Meeting, Electronic		1	- Investment	
1.7	Mail Guard	Section 1.2.4	EDC + 9 Months	Contractor Premises	HW/SW/Labour/Electronic		11	- Investment	
1.8	Web Guard	Section 1.2.4	EDC + 9 Months	Contractor Premises	HW/SW/Labour/Electronic		11	- Investment	
1.9	Security Accreditation Documentation	Section 10.3	2 weeks before CDR	Project Website	Meeting, Electronic		1	- Investment	
1.10	Acceptance of IEG-C security accreditation package	Section 3.7	EDC + 13 Months	Project Website	Meeting, Electronic		1	- Investment	
1.11	Post-Accreditation Activities	Section 10.5	EDC + 27 Months EDC + 3 Months, EDC + 6 Months, EDC + 12 Months	Project Website	Meeting, Electronic		1	- Investment	
1.12	Integrated Logistics Support Plan (ILSP)	Section 6.2 Section 6.4	EDC + 3 Months, EDC + 6 Months, EDC + 12 Months EDC + 3 Months, EDC + 6 Months	Project Website	Meeting, Electronic		1	- Investment - Investment	
1.13 1.14	Support Case Technical Documentation (Manuals and As-built documentation)	Section 6.5	EDC + 3 Months, EDC + 6 Months EDC + 10 months	Project Website Project Website	Meeting, Electronic Meeting, Electronic		1	- Investment	
1.15	Training Plan and TNA Report	Section 6.6	EDC + 3 Months, EDC + 6 Months, EDC + 9 Months	Project Website	Meeting, Electronic		1	- Investment	
1.16	Training Course Materials	Section 6.6	EDC + 10 Months	NCIA	Paper, Electronic	set	1	- Investment	
1.17	Configuration Management (CMP, CMDB, Issue and Change Log, CSAR, SW versioning Tools, Configuration Au	Section 12	EDC + 6 Months	Project Website	Meeting, Electronic		1	- Investment	
1.18	System Test Documentation Package (MPTP, Test Plans, RTM, Procedures)	Section 8	EDC + 4 , EDC+8	Project Website	Meeting, Electronic	set	1	- Investment	
TOTAL PR	ICE CLIN 1							-	
2.0	CLIN 2 (BASE-EVALUATED) - WP 2.2 Installation of the Reference System IEG-C-01 SHAPE			1					
2.1	Project Management	Section 4	EDC + 9mo	Project Website	Meeting, Electronic	set	1	- Investment	
2.2	Site Survey	Section 9	EDC + 9 Months	SHAPE	Electronic		1	- Investment	
	Site Installation	Section 7.5	EDC + 11 Months	SHAPE	HW/SW/Labour/Electronic		1	- Investment	
2.4	Security Accreditation Documentation and Reports (update)	Section 10.3	EDC + 13 Months	Project Website	Meeting, Electronic		1	- Investment	
2.5	SIT + SAT + UAT	Section 3.8	EDC + 13 Months	Project Website	Meeting, Electronic		1	- Investment	
2.6	Technical Documentation (Manuals and As-built documentation) (update) Training Course Materials (update)	Section 6.5 Section 6.6	EDC + 12 Months EDC + 12 Months	Project Website Project Website	Meeting, Electronic		1	- Investment - Investment	
2.7	Configuration Management (CMP, CMDB, Issue and Change Log, CSAR, SW versioning Tools, Configuration Au		EDC + 12 Months EDC + 12 Months	Project Website	Meeting, Electronic Meeting, Electronic		1	- Investment	
2.9	Training Courses (i.e. Administrator and Test Crew Training)	Section 6.9	EDC + 12 Months	On-Site	Training course		1	- Investment	
2.10	Initial Operational Support (including CLIN 3 scope)	Section 6.9	ESA	On-Site/Off-Site (as required)	Labour		1	- Investment	
2.11	Warranty (including CLIN 3 scope)	Section 6.10	FSA + 1 year	On-Site/Off-Site (as required)	Warranty		1	- Investment	
TOTAL PR	ICE CLIN 2							-	
3.0									
3.1	CLIN 3 (BASE-EVALUATED) - WP2.3 Integration into NATO Enterprise/IEG-C Central Management Project Management	Section 4	EDC + 9mo	Project Website	Meeting, Electronic	set	1	- Investment	
3.2	Site Survey	Section 9	EDC + 9 Months	SHAPE	Electronic		1	- Investment	
3.3	Site Installation	Section 7.5	EDC + 11 Months	SHAPE	Meeting, Electronic		1	- Investment	
3.4	Security Accreditation Documentation and Reports (update)	Section 10.3	EDC + 13 Months	Project Website	Meeting, Electronic		1	- Investment	
3.5	SIT + SAT + UAT	Section 3.8	EDC + 13 Months	Project Website	Meeting, Electronic		1	- Investment	
3.6	Service Delivery Management Suite/Border Protection Services integration	Section 1.2.6	EDC + 20 Months	Project Website	Meeting, Electronic		1	- Investment	
3.7	SMC Monitoring of the IEG-C System (main and alternate site)	Section 3.10	EDC + 20 Months	Project Website	Meeting, Electronic		1	- Investment	
3.8	Integrated Logistics Support Plan (ILSP) update	Section 6.2	EDC + 13 Months	Project Website	Meeting, Electronic		1	- Investment	
3.9 3.10	Technical Documentation (Manuals and As-built documentation) (update) Training Course Materials (update)	Section 6.5 Section 6.6	EDC + 12 Months EDC + 12 Months	Project Website Project Website	Meeting, Electronic Meeting, Electronic		1	- Investment - Investment	
3.10	Configuration Management (CMP, CMDB, Issue and Change Log, CSAR, SW versioning Tools, Configuration Au		EDC + 12 Months EDC + 12 Months	Project Website	Meeting, Electronic Meeting, Electronic		1	- Investment	
3.12	Training Courses (i.e. Administrator and Test Crew Training)	Section 6.6	EDC + 12 Months	On-Site	Training course		1	- Investment	
3.13	Initial Operational Support	Section 6.9	FSA	On-Site/Off-Site (as required)	Services		1	- Investment	
	Warranty	Section 6.10	FSA + 1 year	On-Site/Off-Site (as required)	Warranty		1	- Investment	
TOTAL PR	ICE CLIN 3							-	
4.0	CLIN 4 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-02 SHAPE NRF								
4.0	Project Management	Section 4	EDC + 20 Months	Project Website	Electronic	set	1	- Investment	
4.2	Site Survey	Section 9	EDC + 20 Months	SHAPE	Electronic		1	- Investment	
4.3	Site Installation	Section 7.5	EDC + 20 Months	SHAPE	HW/SW/Labour/Electronic		1	- Investment	
4.4	Deployment Authorization	Section 3.9	EDC + 20 Months	Project Website	Electronic		1	- Investment	
4.5	Site Acceptance	Section 3.12	EDC + 20 Months	Project Website	Electronic		1	- Investment	
4.6	Site Security Accreditation	Section 10.3	EDC + 20 Months	Project Website	Meeting, Electronic		1	- Investment	
4.7	Provisional System Acceptance	Section 3.10	EDC + 20 Months EDC + 20 Months	Project Website	Meeting, Electronic		1	- Investment	
4.8 4.9	Integrated Logistics Support Plan (ILSP) update Technical Documentation (Manuals and As-built documentation) (update)	Section 6.2 Section 6.5	EDC + 20 Months EDC + 18 Months	Project Website Project Website	Electronic		1	- Investment - Investment	
4.9	Training Course Materials (update)	Section 6.6	EDC + 18 Months EDC + 18 Months	Project Website	Electronic		1	- Investment	
4.10	Configuration, Issues and Changes Management Package and Plan (update)	Section 12	EDC + 18 Months	NCIA	Electronic		1	- Investment	
4.12	Training Courses (All)	Section 6.6	EDC + 20 Months	On-Site	Training course		1	- Investment	
4.13	Warranty	Section 6.10	FSA + 1 year	On-Site/Off-Site (as required)	Warranty	set	1	- Investment	
4.14	Integration into SMC and Management from BPS	Section 3.10, 1.2.6	EDC + 20 Months	NCIA	HW/SW/Labour/Electronic		1	- Investment	
4.15	Initial Operational Support	Section 6.9	FSA	On-Site/Off-Site (as required)	Services	set	1	- Investment	
TOTAL PR	ICE CLIN 4							-	
	CLIN 5 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-03 SHAPE VJTF								
5.0	CLINES (DASE-EVALUATED) - WPS INStallation of Walluatory Gateways - IEG-C-US SHAPE VITE	Section 4	EDC + 21 Months	Project Website	Electronic	set	1	- Investment	
	Project Management			SHAPE	Electronic		1	- Investment	
5.1 5.2	Project Management Site Survey	Section 9	EDC + 21 Months						
5.0 5.1 5.2 5.3	Project Management Site Survey Installation	Section 9 Section 7.5	EDC + 21 Months	SHAPE	HW/SW/Labour/Electronic		1	- Investment	
5.1 5.2 5.3 5.4	Project Management Site Survey Installation Site accreditation	Section 9 Section 7.5 Section 10.3	EDC + 21 Months EDC + 21 Months	SHAPE Project Website	Electronic	set	1	- Investment	
5.1 5.2 5.3 5.4 5.5	Project Management Site Survey Installation Site accreditation Validation and Acceptance	Section 9 Section 7.5 Section 10.3 Section 3.12	EDC + 21 Months EDC + 21 Months EDC + 21 Months	SHAPE Project Website Project Website	Electronic Electronic	set set	1 1	- Investment - Investment	
5.1 5.2 5.3 5.4 5.5 5.6	Project Management Site Survey Installation Site accreditation Validation and Acceptance Documentation (Rev, As-Built, updated design documentation and manuals as necessary)	Section 9 Section 7.5 Section 10.3 Section 3.12 Section 6.5	EDC + 21 Months EDC + 21 Months EDC + 21 Months EDC + 20 Months EDC + 20 Months	SHAPE Project Website Project Website Project Website	Electronic Electronic Electronic	set set	1 1 1 1 1 1	- Investment - Investment - Investment	
5.1 5.2 5.3 5.4 5.5 5.6 5.7	Project Management Site Survey Installation Site accreditation Validation and Acceptance Documentation (Rev, As Built, updated design documentation and manuals as necessary) Training (i.e. Updated materials and Transition Training)	Section 9 Section 7.5 Section 10.3 Section 3.12 Section 6.5 Section 6.6	EDC + 21 Months EDC + 21 Months EDC + 21 Months EDC + 20 Months EDC + 20 Months EDC + 21 Months	SHAPE Project Website Project Website Project Website On-Site	Electronic Electronic Electronic Electronic	set set set	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- Investment - Investment - Investment - Investment	
5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8	Project Management Site Survey Installation Site accreditation Validation and Acceptance Documentation (Rev, As-Built, updated design documentation and manuals as necessary) Training (i.e. Updated materials and Transition Training) Integration into SNC and Management from BP5	Section 9 Section 7.5 Section 10.3 Section 3.12 Section 6.6 Section 6.6 Section 3.10, 1.2.6	EDC + 21 Months EDC + 21 Months EDC + 21 Months EDC + 20 Months EDC + 20 Months EDC + 21 Months EDC + 21 Months	SHAPE Project Website Project Website Project Website On-Site NCIA	Electronic Electronic Electronic Electronic HW/SW/Labour/Electronic	set set set set	1	- Investment - Investment - Investment - Investment - Investment	
5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9	Project Management Site Survey Installation Site accreditation Validation and Acceptance Documentation (Rev, A-S will, updated design documentation and manuals as necessary) Training (i.e. Updated materials and Transition Training) Integration into SMC and Management from BPS Initial Operational Support	Section 9 Section 7.5 Section 10.3 Section 3.12 Section 6.5 Section 6.6	EDC + 21 Months EDC + 21 Months EDC + 21 Months EDC + 22 Months EDC + 23 Months EDC + 21 Months EDC + 21 Months EDC + 21 Months EDC + 21 Months FSA	SHAPE Project Website Project Website Project Website On-Site NCIA On-Site/Off-Site (as required)	Electronic Electronic Electronic Electronic HW/SW/Labour/Electronic Services	set set set set set set	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- Investment - Investment - Investment - Investment	
5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 5.10	Project Management Site Survey Installation Site accreditation Validation and Acceptance Documentation (Rev, As-Built, updated design documentation and manuals as necessary) Training (i.e. Updated materials and Transition Training) Integration into SNC and Management from BP5	Section 9 Section 7.5 Section 10.3 Section 3.12 Section 6.5 Section 6.6 Section 6.6 Section 6.9	EDC + 21 Months EDC + 21 Months EDC + 21 Months EDC + 20 Months EDC + 20 Months EDC + 21 Months EDC + 21 Months	SHAPE Project Website Project Website Project Website On-Site NCIA	Electronic Electronic Electronic Electronic HW/SW/Labour/Electronic	set set set set set set	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- Investment - Investment - Investment - Investment - Investment - Investment	

					1				
	CLIN 6 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-04 SHAPE Exercise 1								
	Project Management Site Survey	Section 4 Section 9	EDC + 21 Months	Project Website	Electronic	set 1			Investment
	Site Survey Installation	Section 9 Section 7.5	EDC + 21 Months EDC + 21 Months	SHAPE	Electronic HW/SW/Labour/Electronic	set 1		 -	Investment
	Site accreditation	Section 7.5	EDC + 21 Months EDC + 21 Months	Project Website	Electronic	set 1		 -	Investment
	Validation and Acceptance	Section 3.12	EDC + 21 Months	Project Website	Electronic	set 1		 	Investment
6.6	Documentation (Rev, As-Built, updated design documentation and manuals as necessary)	Section 6.5	EDC + 20 Months	Project Website	Electronic	set 1		 	Investment
	Training (i.e. Updated materials and Transition Training)	Section 6.6	EDC + 21 Months	On-Site	Electronic	set 1		-	Investment
6.8	Integration into SMC and Management from BPS	Section 3.10, 1.2.6	EDC + 21 Months	NCIA	HW/SW/Labour/Electronic	set 1		-	Investment
	Initial Operational Support	Section 6.9	FSA	On-Site/Off-Site (as required)	Services	set 1		-	Investment
6.10	Warranty	Section 6.10	FSA + 1 year	On-Site/Off-Site (as required)	Warranty	set 1		-	Investment
TOTAL PR	CE CLIN 6								
-									
7.0	CLIN 7 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-05 JWC Exercise 1		EDC + 22 Months		-				Investment
7.1	Project Management	Section 4	EDC + 22 Months EDC + 22 Months	Project Website SHAPE	Electronic	set 1		 	
	Site Survey Installation	Section 9 Section 7.5	EDC + 22 Months EDC + 22 Months	SHAPE	Electronic HW/SW/Labour/Electronic	set 1		 	Investment Investment
	Site accreditation	Section 10.3	EDC + 22 Months	Project Website	Electronic	set 1		 	Investment
	Validation and Acceptance	Section 3.12	EDC + 22 Months	Project Website	Electronic	set 1		 	Investment
	Documentation (Rev. As-Built, updated design documentation and manuals as necessary)	Section 6.5	EDC + 20 Months	Project Website	Electronic	set		-	Investment
	Training (i.e. Updated materials and Transition Training)	Section 6.6	EDC + 21 Months	On-Site	Electronic	set 1		-	Investment
7.8	Integration into SMC and Management from BPS	Section 3.10, 1.2.6	EDC + 22 Months	NCIA	HW/SW/Labour/Electronic	set 1		-	Investment
7.9	Initial Operational Support	Section 6.9	FSA	On-Site/Off-Site (as required)	Services	set 1		-	Investment
7.10	Warranty	Section 6.10	FSA + 1 year	On-Site/Off-Site (as required)	Warranty	set 1		-	Investment
TOTAL PR	CE CLIN 7							-	
8.0									
	CLIN 8 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-06 JWC Exercise 2 Project Management	Section 4	EDC + 22 Months	Project Website	Electronic	set 1			Investment
	Project Management Site Survey	Section 4 Section 9	EDC + 22 Months EDC + 22 Months	Project Website SHAPE	Electronic			-	Investment
	Installation	Section 9 Section 7.5	EDC + 22 Months EDC + 22 Months	SHAPE	HW/SW/Labour/Electronic	set 1 set 1			Investment
	Site accreditation	Section 10.3	EDC + 22 Months	Project Website	Electronic	set 1			Investment
	Validation and Acceptance	Section 3.12	EDC + 22 Months	Project Website	Electronic	set 1			Investment
8.6	Documentation (Rev, As-Built, updated design documentation and manuals as necessary)	Section 6.5	EDC + 20 Months	Project Website	Electronic	set 1			Investment
	Training (i.e. Updated materials and Transition Training)	Section 6.6	EDC + 21 Months	On-Site	Electronic	set			Investment
8.8	Integration into SMC and Management from BPS	Section 3.10, 1.2.6	EDC + 22 Months	NCIA	HW/SW/Labour/Electronic	set 1		-	Investment
8.9	Initial Operational Support	Section 6.9	FSA	On-Site/Off-Site (as required)	Services	set 1		-	Investment
8.10	Warranty	Section 6.10	FSA + 1 year	On-Site/Off-Site (as required)	Warranty	set 1		-	Investment
TOTAL PR	CE CLIN 8							-	
9.0	CLIN 9 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-07 EUROCORPS				-				
	Project Management	Section 4	EDC + 23 Months	Project Website	Electronic	set 1		-	Investment
	Site Survey	Section 9	EDC + 23 Months	SHAPE	Electronic	set 1		-	Investment
	Installation	Section 7.5	EDC + 23 Months	SHAPE	HW/SW/Labour/Electronic	set 1		-	Investment
	Site accreditation	Section 10.3	EDC + 23 Months	Project Website	Electronic	set 1		-	Investment
	Validation and Acceptance	Section 3.12	EDC + 23 Months	Project Website	Electronic	set 1		-	Investment
	Documentation (Rev, As-Built, updated design documentation and manuals as necessary)	Section 6.5	EDC + 21Months	Project Website	Electronic	set 1		-	Investment
9.7	Training (i.e. Updated materials and Transition Training)	Section 6.6	EDC + 22 Months	On-Site	Electronic	set 1			Investment
	Integration into SMC and Management from BPS	Section 3.10, 1.2.6	EDC + 23 Months	NCIA	HW/SW/Labour/Electronic	set 1		-	Investment
	Initial Operational Support	Section 6.9	FSA	On-Site/Off-Site (as required)	Services	set 1		 -	Investment
9.10	Warranty	Section 6.9 Section 6.10	FSA FSA + 1 year	On-Site/Off-Site (as required) On-Site/Off-Site (as required)	Services Warranty	set 1 set 1			Investment Investment
	Warranty								
9.10 TOTAL PR	Warranty CE CLIN 9								
9.10 TOTAL PRI 10.0	Warranty CE CLIN 9 CLIN 10 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-08 ARRC	Section 6.10	FSA + 1 year	On-Site/Off-Site (as required)	Warranty	set 1			Investment
9.10 TOTAL PRI 10.0 10.1	Warranty CE CLIN 9							- - - -	
9.10 TOTAL PRI 10.0 10.1 10.2	Warranty CE CLIN 9 CLIN 10 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-08 ARRC Project Management	Section 6.10 Section 4	FSA + 1 year EDC + 24 Months	On-Site/Off-Site (as required) Project Website	Warranty Electronic	set 1		• • • • • • •	Investment
9.10 TOTAL PRI 10.0 10.1 10.2 10.3	Warranty CE CLIN 9 CLIN 10 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-08 ARRC Project Management Site Survey Installation	Section 6.10 Section 4 Section 9 Section 7.5	FSA + 1 year EDC + 24 Months EDC + 24 Months	On-Site/Off-Site (as required) Project Website SHAPE SHAPE SHAPE	Warranty Electronic Electronic HW/SW/Labour/Electronic	set 1 set 1 set 1 set 1 set 1			Investment
9.10 TOTAL PRI 10.0 10.1 10.2 10.3 10.4 10.5	Warranty CE CLIN 90 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-08 ARRC Project Management Site Survey Installation Site acceditation Validation and Acceptance	Section 6.10 Section 4 Section 9 Section 7.5 Section 10.3 Section 3.12	FSA + 1 year EDC + 24 Months EDC + 24 Months	On-Site/Off-Site (as required) Project Website SHAPE Project Website Project W	Warranty Electronic Electronic HW/SW/Labour/Electronic Electronic Electronic	set 1 set 1 set 1 set 1 set 1 set 1 set 1 set 1			Investment
9.10 TOTAL PRI 10.0 10.1 10.2 10.3 10.4 10.5 10.6	Warranty CE CLIN 9 CLIN 10 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-08 ARRC Project Management Site Survey Installation Site accreditation Validation Documentation and Acceptance Documentation and manuals as necessary)	Section 6.10 Section 4 Section 9 Section 7.5 Section 10.3 Section 3.12 Section 6.5	FSA + 1 year EDC + 24 Months EDC + 24 Months	On-Site/Off-Site (as required) Project Website SHAPE SHAPE Project Website Project Website Project Website	Warranty Electronic Electronic HW/SW/Labour/Electronic Electronic Electronic Electronic	set 1			Investment
9.10 TOTAL PRI 10.0 10.1 10.2 10.3 10.4 10.5 10.6 10.7	Warranty CE CLIN 30 [BASE-EVALUATED] - WP3 Installation of Mandatory Gateways - IEG-C-08 ARRC Project Management Site Survey Installation Site acceditation Validation and Acceptance Documentation (Rev, AF-abilit, updated design documentation and manuals as necessary) Training (I.e. Updated materials and Transition Training)	Section 6.10 Section 4 Section 9 Section 7.5 Section 10.3 Section 3.12 Section 6.5 Section 6.6	FSA + 1 year EDC + 24 Months EDC + 22 Months EDC + 23 Months	On-Site/Off-Site (as required) Project Website SHAPE SHAPE Project Website Project Website Project Website On-Site On-Site	Warranty Electronic Electronic HW/SW/Labour/Electronic Electronic Electronic Electronic Electronic	set 1		- - - - - - - - - - - - - - - - - - -	Investment
9.10 TOTAL PRI 10.0 10.1 10.2 10.3 10.4 10.5 10.6 10.7 10.8	Warranty CE CLIN 9 CLIN 10 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-08 ARRC Project Management Site Survey Installation Site acceditation Validation and Acceptance Documentation (Rev, As-Built, updated design documentation and manuals as necessary) Training (i.e. Updated materials and Transition Training) Integration into SNC and Management from BP5	Section 6.10 Section 6.10 Section 9 Section 7.5 Section 10.3 Section 3.12 Section 6.5 Section 6.6 Section 6.6	FSA + 1 year EDC + 24 Months	On-Site/Off-Site (as required) Project Website SHAPE SHAPE Project Website Project Website Project Website On-Site NCIA NCIA	Warranty Electronic Electronic Electronic Electronic Electronic Electronic Electronic Electronic HavySW(Labour/Electronic	set 1		· · · · · · · · · · · · · · · · · · ·	Investment
9.10 TOTAL PR 10.0 10.1 10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9	Warranty CE CLIN 30 [BASE-EVALUATED] - WP3 Installation of Mandatory Gateways - IEG-C-08 ARRC Project Management Site Survey Installation Site acceditation Validation and Acceptance Documentation (Rev, As-Built, updated design documentation and manuals as necessary) Training (Le. Updated materials and Transition Training) Integration into SMC and Management from BPS Initial Operational Support	Section 6.10 Section 4 Section 7.5 Section 7.5 Section 3.12 Section 3.12 Section 6.5 Section 6.5 Section 6.6 Section 6.9	FSA + 1 year EDC + 24 Months EDC + 23 Months EDC + 24 Months EDC + 24 Months	On-Site/Off-Site (as required) Project Website SHAPE SHAPE Project Website Project Website Project Website On-Site Off-Site (as required)	Warranty Electronic Electronic Electronic Electronic Electronic Electronic Electronic Electronic WW/W/Labour/Electronic Services	set 2		· · · · · · · · · · · · · · · · · · ·	Investment
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9.10 TOTAL PR 10.1 10.1 10.2 10.3 10.4 10.3 10.4 10.5 10.6 10.5 10.6 10.5 10.6 10.7 10	Warranty CE CLIN 9 CE CLIN 10 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-08 ARRC Project Management Site Survey Installation Site screeditation Validation and Acceptance Documentation (Rev, A-Built, updated design documentation and manuals as necessary) Training (L: Updated materials and Transition Training) Integration into SMC and Management from BPS Initial Operational Support QE CLIN 11 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-09 JFC Project Management Site survey Install operational Support Documentation (Rev, A-Se Built, updated design documentation and manuals as necessary) Training (L: Updated materials and Transition Training) Integration into SMC and Management from BPS Initial Operational Support Validation and Acceptance Documentation (Rev, A-Se Built, updated design documentation and manuals as necessary) Training (L: Updated materials and Transition Training) Initial Operational Support Warranty CE CLIN 11 CLIN 12 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-10 JFC NRF STBY	Section 6.10 Section 7.5 Section 6.7 Section 6.7 Section 6.7 Section 6.7 Section 7.5 Section 6.7 Section 7.5 Secti	FSA + 1 year EDC + 24 Months EDC + 25 Months EDC + 26 Months <t< td=""><td>On-Site/Off-Site (as required) Project Website SHAPE SHAPE Project Website Project Website Project Website On-Site/Off-Site (as required) On-Site/Off-Site (as required) Project Website SHAPE SHAPE Project Website Project Website On-Site/Off-Site (as required) Project Website SHAPE Project Website NCIA NCIA NCIA</td><td>Warranty Electronic E</td><td>set 1 set 1 set 1<td></td><td></td><td>Investment Investment /td></td></t<>	On-Site/Off-Site (as required) Project Website SHAPE SHAPE Project Website Project Website Project Website On-Site/Off-Site (as required) On-Site/Off-Site (as required) Project Website SHAPE SHAPE Project Website Project Website On-Site/Off-Site (as required) Project Website SHAPE Project Website NCIA NCIA NCIA	Warranty Electronic E	set 1 set 1 set 1 <td></td> <td></td> <td>Investment Investment /td>			Investment

TOTAL DE	ICE CLIN 12	1							
TOTAL PR								-	
13.0	CLIN 13 (BASE-EVALUATED) - WP3 Installation of Mandatory Gateways - IEG-C-11 JFTC								
13.1	Project Management	Section 4	EDC + 27 Months	Project Website	Electronic	set	1	-	Investment
13.2	Site Survey	Section 9	EDC + 27 Months	SHAPE	Electronic	set	1	-	Investment
13.3	Installation	Section 7.5	EDC + 27 Months	SHAPE	HW/SW/Labour/Electronic	set	1	-	Investment
13.4	Site accreditation	Section 10.3	EDC + 27 Months	Project Website	Electronic	set	1	-	Investment
13.5	Validation and Acceptance	Section 3.12	EDC + 27 Months	Project Website	Electronic	set	1	-	Investment
13.6	Documentation (Rev, As-Built, updated design documentation and manuals as necessary)	Section 6.5	EDC + 25 Months	Project Website	Electronic	set	1	-	Investment
13.7	Training (i.e. Updated materials and Transition Training)	Section 6.6	EDC + 26 Months	On-Site	Electronic	set	1	-	Investment
13.8	Integration into SMC and Management from BPS	Section 3.10, 1.2.6	EDC + 27 Months	NCIA	HW/SW/Labour/Electronic	set	1	-	Investment
13.9	Initial Operational Support	Section 6.9	FSA	On-Site/Off-Site (as required)	Services	set	1	-	Investment
13.10	Warranty	Section 6.10	FSA + 1 year	On-Site/Off-Site (as required)	Warranty	set	1	-	Investment
TOTAL PR	ICE CLIN 13							-	
14.0	CLIN 14 (BASE-EVALUATED) - WP4 Decommissioning Legacy Gateways	Carthan O	FDC - CM-sthe	Professional Marketine	The state of a				have a state of the state of th
14.1	Site Surveys	Section 9	EDC + 6 Months	Project Website	Electronic	set	1		Investment
14.2	Removal of the equipment	Section 6.11	EDC + 27 Months	Local Site	HW/SW/Labour/Electronic	set	1		Investment
14.3	Verification and documentation update	Section 6.11	EDC + 27 Months	Project Website	Labour/Electronic	set	1	-	Investment
14.4	Final System Acceptance (FSA)	Section 3.12	EDC + 27 Months	Project Website	Meeting, Electronic	set	1		Investment
TOTAL PR	ICE CLIN 14							-	
15.0	CLIN 15 (BASE-EVALUATED) - WP6 Hardware Purchase Mandatory Sites								
15.1	Servers/Virtualisation Server (Rack Mount)	Section 16.2	EDC + 13 Months	On-Site	HW	set	1	-	Investment
15.2	Switch	Section 16.2	EDC + 13 Months	On-Site	HW	set	1	-	Investment
15.3	Rack, UPS, Cabling	Section 16.2	EDC + 13 Months	On-Site	HW	set	1	-	Investment
15.4	Firewall	Section 16.2	EDC + 13 Months	On-Site	HW	set	1	-	Investment
15.5	Management Capability HW	Section 16.2	EDC + 13 Months	On-Site	HW	set	1	-	Investment
15.6	Initial spares for Mandatory sites	Section 16.2	EDC + 13 Months	On-Site	spare parts	set	1	-	Investment
15.7	Initial Operational Support	Section 6.9	FSA	On-Site/Off-Site (as required)	Services	set	1	-	Investment
15.8	Warranty	Section 6.10	FSA+ 1 year	On-Site/Off-Site (as required)	Warranty	set	1	-	Investment
15.9	Documentation and Training Update	Section 6.5 and 6.6	EDC + 13 Months	On-Site/Off-Site (as required)	Electronic	set	1	-	Investment
TOTAL PR	ICE CLIN 15							-	
16.0	CLIN 16 (BASE-EVALUATED) - WP7 Cyber Monitoring Capability (former NCIRC)								
16.1	Site Survey	Section 16.3	EDC + 13 Months	On-Site	Electronic	set	1		Investment
16.2	Incorporation in IEG-C design	Section 16.3	EDC + 13 Months	On-Site	HW/SW/Labour/Electronic	set	1		Investment
16.3	Installation	Section 16.3	EDC + 13 Months	On-Site	HW/SW/Labour/Electronic	set	1		Investment
16.4	Integration and testing Mandatory Sites and Management Suite	Section 16.3	EDC + 13 Months	On-Site	HW/SW/Labour/Electronic	set	1		Investment
16.5	Integration and testing Optional Sites	Section 16.3	EDC + 13 Months	On-Site	HW/SW/Labour/Electronic	set	1		Investment
16.6	Initial Operational Support	Section 6.9	ESA	On-Site/Off-Site (as required)	Services	set	1		Investment
16.7	Warranty	Section 6.10	FSA+ 1 year	On-Site/Off-Site (as required)	Warranty	set	1		Investment
16.8	Documentation and Training Update	Section 6.5 and 6.6	EDC + 13 Months	On-Site/Off-Site (as required)	Electronic	set	1	-	Investment
TOTAL PR	ICE CLIN 16							-	
Total F	irm Fixed Price- Base Contract							-	

OPTIONAL CLINS- Non Evaluated				
17.0 CLIN 17 (OPTION-NON EVALUATED) - WP11 Hardware Purchase Optional Sites				
17.1 Servers/Virtualisation Server (Rack Mount)	Section 16.2 TBC	On-Site	Electronic set 1 -	Investment
17.2 Switch	Section 16.2 TBC	On-Site	Electronic set 1 -	Investment
17.3 Rack, UPS, Cabling	Section 16.2 TBC	On-Site	Electronic set 1 -	Investment
17.4 Firewall	Section 16.2 TBC	On-Site	Electronic set 1 -	Investment
17.5 Initial spares for Optional sites	Section 16.2 TBC	On-Site	Electronic set 1 -	Investment
17.6 Initial Operational Support	Section 6.9 FSA	On-Site/Off-Site (as required)	Services set 1 -	Investment
17.7 Warranty	Section 6.10 FSA+ 1 year	On-Site/Off-Site (as required)	Warranty set 1 -	Investment
17.8 Documentation and Training Update	Section 6.5 and 6.6 TBC	On-Site/Off-Site (as required)	Electronic set 1	Investment
TOTAL PRICE CLIN 17			· · · · · · · · · · · · · · · · · · ·	
18.0 CLIN 18 (OPTION-NON EVALUATED) - WP12 Installation of Optional Gateways - IEG-C-13 RSM				
18.1 Project Management	Section 4 TBC	Project Website	Electronic set 1 -	Investment
18.2 Site Survey	Section 9 TBC	On-Site	Electronic set 1 -	Investment
18.3 Installation	Section 7.5 TBC	On-Site	HW/SW/Labour/Electronic set 1 -	Investment
18.4 Site accreditation	Section 10.3 TBC	Project Website	Electronic set 1 -	Investment
18.5 Validation and Acceptance	Section 3.12 TBC	Project Website	Electronic set 1 -	Investment
18.6 Documentation (Rev, As-Built)	Section 6.5 TBC	Project Website	Electronic set 1 -	Investment
18.7 Training	Section 6.6 TBC	Project Website	Electronic set 1 -	Investment
18.8 Integration into SMC and Management from BPS	Section 3.10, 1.2.6 TBC	NCIA	HW/SW/Labour/Electronic set 1 -	Investment
18.9 Initial Operational Support	Section 6.9 FSA	On-Site/Off-Site (as required)	Services set 1 -	Investment
18.10 Warranty	Section 6.10 FSA+ 1 year	On-Site/Off-Site (as required)	Warranty set 1 -	Investment
18.11 Documentation and Training Update	Section 6.5 and 6.6 TBC	On-Site/Off-Site (as required)	Electronic set 1 -	Investment
TOTAL PRICE CLIN 18			· · ·	
19.0 CLIN 19 (OPTION-NON EVALUATED) - WP12 Installation of Optional Gateways - IEG-C-14 KFOR				
19.1 Project Management	Section 4 TBC	Project Website	Electronic set 1 -	Investment
19.2 Site Survey	Section 9 TBC	On-Site	Electronic set 1 -	Investment
19.3 Installation	Section 7.5 TBC	On-Site	HW/SW/Labour/Electronic set 1 -	Investment
19.4 Site accreditation	Section 10.3 TBC	Project Website	Electronic set 1 -	Investment
19.5 Validation and Acceptance	Section 3.12 TBC	Project Website	Electronic set 1 -	Investment
19.6 Documentation (Rev, As-Built)	Section 6.5 TBC	Project Website	Electronic set 1 -	Investment
19.7 Training	Section 6.6 TBC	Project Website	Electronic set 1 -	Investment
19.8 Integration into SMC and Management from BPS	Section 3.10, 1.2.6 TBC	NCIA	HW/SW/Labour/Electronic set 1 -	Investment
19.9 Initial Operational Support	Section 6.9 FSA	On-Site/Off-Site (as required)	Services set 1 -	Investment
19.10 Warranty	Section 6.10 FSA+ 1 year	On-Site/Off-Site (as required)	Warranty set 1 -	Investment
19.11 Documentation and Training Update	Section 6.5 and 6.6 TBC	On-Site/Off-Site (as required)	Electronic set 1 -	Investment
TOTAL PRICE CLIN 19			· · · ·	
20.0 CLIN 20 (OPTION-NON EVALUATED) - WP12 Installation of Optional Gateways - IEG-C-15 EUFOR				

20.1	Project Management	Section 4	твс	Project Website	Electronic	set	1	- Investment	
20.2	Site Survey	Section 9	TBC	On-Site	Electronic	set	1	- Investment	
20.2	Installation	Section 7.5	TBC	On-Site	HW/SW/Labour/Electronic	set	1	- Investment	
20.3	Site accreditation	Section 10.3	TBC	Project Website	Electronic	set	1	- Investment	
20.5	Validation and Acceptance	Section 3.12	TBC	Project Website	Electronic	set	1	- Investment	I
20.6	Documentation (Rev, As-Built)	Section 6.5	TBC	Project Website	Electronic	set	1	- Investment	I
20.7	Training	Section 6.6	TBC	Project Website	Electronic	set	1	- Investment	Í.
20.8	Integration into SMC and Management from BPS	Section 3.10, 1.2.6	TBC	NCIA	HW/SW/Labour/Electronic	set	1	- Investment	
20.9	Initial Operational Support	Section 6.9	FSA	On-Site/Off-Site (as required)	Services	set	1	- Investment	
20.10	Warranty	Section 6.10	FSA+ 1 year	On-Site/Off-Site (as required)	Warranty	set	1	- Investment	
20.11	Documentation and Training Update	Section 6.5 and 6.6	TBC	On-Site/Off-Site (as required)	Electronic	set	1	- Investment	
TOTAL PR	CE CLIN 20							-	i i
									-
21.0 21.1	CLIN 21 (OPTION-NON EVALUATED) - WP12 Installation of Optional Gateways - IEG-C-16 JFC OS	Section 4	твс	Posto et 1976 hatea	Electron de	set	1	- Investment	<u> </u>
21.1 21.2	Project Management		TBC	Project Website	Electronic		1		<u> </u>
21.2	Site Survey Installation	Section 9 Section 7.5	TBC	On-Site On-Site	Electronic HW/SW/Labour/Electronic	set	1	- Investment - Investment	L
21.3	Site accreditation	Section 7.5 Section 10.3	TBC	Project Website	Electronic	set	1	- Investment	L
21.4	Validation and Acceptance	Section 3.12	TBC	Project Website	Electronic	set	1	- Investment	[
21.5	Documentation (Rev, As-Built)	Section 6.5	TBC	Project Website	Electronic	set	1	- Investment	[
21.0	Training	Section 6.6	TBC	Project Website	Electronic	set	1	- Investment	[
21.7	Integration into SMC and Management from BPS	Section 3.10, 1.2.6	TBC	NCIA	HW/SW/Labour/Electronic	set	1	- Investment	
21.9	Initial Operational Support	Section 6.9	FSA	On-Site/Off-Site (as required)	Services	set	1	- Investment	
21.10	Warranty	Section 6.10	FSA+ 1 year	On-Site/Off-Site (as required)	Warranty	set	1	- Investment	
21.10	Documentation and Training Update	Section 6.5 and 6.6	TBC	On-Site/Off-Site (as required)	Electronic	set	1	- Investment	
	CE CLIN 21								
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22.0	CLIN 22 (OPTION-NON EVALUATED) - WP12 Installation of Optional Gateways - IEG-C-17 JFC RSM								I
22.1	Project Management	Section 4	TBC	Project Website	Electronic	set	1	- Investment	
22.2	Site Survey	Section 9	TBC	On-Site	Electronic	set	1	- Investment	
22.3	Installation	Section 7.5	TBC	On-Site	HW/SW/Labour/Electronic	set	1	- Investment	
22.4	Site accreditation	Section 10.3	TBC	Project Website	Electronic	set	1	- Investment	l
22.5	Validation and Acceptance	Section 3.12	TBC	Project Website	Electronic	set	1	- Investment	l
22.6	Documentation (Rev, As-Built)	Section 6.5	TBC	Project Website	Electronic	set	1	- Investment	+
22.7	Training	Section 6.6	TBC	Project Website	Electronic	set	1	- Investment	+
22.8	Integration into SMC and Management from BPS	Section 3.10, 1.2.6	TBC	NCIA	HW/SW/Labour/Electronic	set	1	- Investment	+
22.9	Initial Operational Support	Section 6.9	FSA	On-Site/Off-Site (as required)	Services	set	1	- Investment	l
22.10 22.11	Warranty	Section 6.10	FSA+ 1 year TBC	On-Site/Off-Site (as required)	Warranty Electronic	set set	1	- Investment - Investment	<u> </u>
-	Documentation and Training Update	Section 6.5 and 6.6	IBC	On-Site/Off-Site (as required)	Electronic	set	1	- Investment	
TOTAL PR	CE CLIN 22							-	l
23.0	CLIN 23 (OPTION-NON EVALUATED) - WP12 Installation of Optional Gateways - IEG-C-18 ACP								Ī
23.1	Project Management	Section 4	твс	Project Website	Electronic	set	1	- Investment	Ī
23.2	Site Survey	Section 9	TBC	On-Site	Electronic	set	1	- Investment	
23.3	Installation	Section 7.5	TBC	On-Site	HW/SW/Labour/Electronic	set	1	- Investment	
23.4	Site accreditation	Section 10.3	TBC	Project Website	Electronic	set	1	- Investment	
23.5	Validation and Acceptance	Section 3.12	TBC	Project Website	Electronic	set	1	- Investment	
23.6	Documentation (Rev, As-Built)	Section 6.5	TBC	Project Website	Electronic	set	1	- Investment	
23.7	Training	Section 6.6	твс	Project Website	Electronic	set	1	- Investment	
23.8	Integration into SMC and Management from BPS	Section 3.10, 1.2.6	TBC	NCIA	HW/SW/Labour/Electronic	set	1	- Investment	I
23.9	Initial Operational Support	Section 6.9	FSA	On-Site/Off-Site (as required)	Services	set	1	- Investment	l
23.10	Warranty	Section 6.10	FSA+ 1 year	On-Site/Off-Site (as required)	Warranty	set	1	- Investment	l
23.11	Documentation and Training Update	Section 6.5 and 6.6	TBC	On-Site/Off-Site (as required)	Electronic	set	1	- Investment	<u> </u>
TOTAL PR	CE CLIN 23								
24.0	CUN 24 (OPTION NON EVALUATED) WP12 Installation of Optional Category 150 0 42 MC5	1		1	+			 I	
24.0	CLIN 24 (OPTION-NON EVALUATED) - WP12 Installation of Optional Gateways - IEG-C-12 NSF Project Management	Section 4	твс	Project Website	Electronic	set	1	- Investment	
24.1	Site Survey	Section 4	TBC	Project website On-Site	Electronic	set	1	- Investment	
24.2	Installation	Section 7.5	TBC	On-Site	HW/SW/Labour/Electronic	set	1	- Investment	[
24.5	Site accreditation	Section 10.3	TBC	Project Website	Electronic	set	1	- Investment	[
24.5	Validation and Acceptance	Section 3.12	TBC	Project Website	Electronic	set	1	- Investment	
24.6	Documentation (Rev, As-Built)	Section 6.5	TBC	Project Website	Electronic	set	1	- Investment	
24.7	Training	Section 6.6	твс	Project Website	Electronic	set	1	- Investment	
24.8	Integration into SMC and Management from BPS	Section 3.10, 1.2.6	твс	NCIA	HW/SW/Labour/Electronic	set	1	- Investment	
24.9	Initial Operational Support	Section 6.9	FSA	On-Site/Off-Site (as required)	Services	set	1	- Investment	1
24.10	Warranty	Section 6.10	FSA+ 1 year	On-Site/Off-Site (as required)	Warranty	set	1	- Investment	i la
24.11	Documentation and Training Update	Section 6.5 and 6.6	TBC	On-Site/Off-Site (as required)	Electronic	set	1	- Investment	1
	CE CLIN 24								
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Total F	irm Fixed Price- Non-Evaluated Options							-	

med with any set of the shore of the shor	CLIN	Labour Category	Currency	Man-Days 2021	Man-Days 2022	Man-Days 2023	Man-Days 2024	Labour rate 2021	Labour rate L 2022	abour rate 2023	Labour rate 2024	Extended cost	Expat Allowance (ONLY if applicable)	Profit	Fully burdened cost	Subcontracted/ Name of Subcontractor
1endendendendend2ControlCont	Exmpl. CLIN 1.1.1															No
JNet Have large way </td <td>1.1</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>	1.1											-				
3End law lay negCC	1.2											-				
4Contabulation of a provide of a	1.3											-				
SAntilaxingAntilaxingAntilaxingAntilaxingAntilaxingAA	1.4											-		0.00	0.00	
9Method (sequence)00000Method (sequence)Method (se	1.5											-		0.00	0.00	
InterspectationInterspectati	1.6											-		0.00	0.00	
JIntiburgingIn<	1.7	Insert Labour category name										-		0.00	0.00	
ifiNot laber spyme <td>1.8</td> <td>Insert Labour category name</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>0.00</td> <td>0.00</td> <td></td>	1.8	Insert Labour category name										-		0.00	0.00	
91Methakcardage and Methakcardage and 	1.9											-		0.00	0.00	
12Met lakor stepsy men.0.000.0013Met lakor stepsy men.0.000.0014Met lakor stepsy men.0.000.0015Met lakor stepsy men.0.000.0016Met lakor stepsy men.0.000.0017Met lakor stepsy men.0.000.0018Met lakor stepsy men.0.000.0019Met lakor stepsy men.0.000.0010Met lakor stepsy men.0.000.0011Met lakor stepsy men.0.000.00 </td <td>1.10</td> <td></td> <td>-</td> <td></td> <td>0.00</td> <td>0.00</td> <td></td>	1.10											-		0.00	0.00	
11Networking <th< td=""><td>1.11</td><td>Insert Labour category name</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td>0.00</td><td>0.00</td><td></td></th<>	1.11	Insert Labour category name										-		0.00	0.00	
14Includer origination0.00000.0000015March box origination0.00000000000000000000000000000000000	1.12	Insert Labour category name										-		0.00	0.00	
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CLIN Exmpl. CLIN 1.1.1	Origin/Destination Rome/The Hague	Year	Currency 19 Euro (EUR)	trips	people 4	per trip 3	Cost per roundtrip Per Diem 5 600.00	150.00	ded cost 16,200.0	Profit	810.00	tal Cost 16,200.00
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1.18	Insert Origin/destination								0.0	00	0.00	0.00
2.1	Insert Origin/destination								0.0	00	0.00	0.00
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7.1	Insert Origin/destination	0.00	0.00	0.00
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19.4	Insert Origin/destination	0.00	0.00	0.00
19.5	Insert Origin/destination	0.00	0.00	0.00
19.6	Insert Origin/destination	0.00	0.00	0.00
19.7	Insert Origin/destination	0.00	0.00	0.00
19.8	Insert Origin/destination	0.00	0.00	0.00
19.9	Insert Origin/destination	0.00	0.00	0.00
19.10	Insert Origin/destination	0.00	0.00	0.00
19.11	Insert Origin/destination	0.00	0.00	0.00
20.1	Insert Origin/destination	0.00	0.00	0.00
20.2	Insert Origin/destination	0.00	0.00	0.00
20.3	Insert Origin/destination	0.00	0.00	0.00
20.4	Insert Origin/destination	0.00	0.00	0.00
20.5	Insert Origin/destination	0.00	0.00	0.00
20.6	Insert Origin/destination	0.00	0.00	0.00
20.7	Insert Origin/destination	0.00	0.00	0.00
20.8	Insert Origin/destination	0.00	0.00	0.00
20.9	Insert Origin/destination	0.00	0.00	0.00
20.10	Insert Origin/destination	0.00	0.00	0.00
20.11	Insert Origin/destination	0.00	0.00	0.00
21.1	Insert Origin/destination	0.00	0.00	0.00
21.2	Insert Origin/destination	0.00	0.00	0.00
21.3	Insert Origin/destination	0.00	0.00	0.00
21.4	Insert Origin/destination	0.00	0.00	0.00
21.5	Insert Origin/destination	0.00	0.00	0.00
21.6	Insert Origin/destination	0.00	0.00	0.00
21.7	Insert Origin/destination	0.00	0.00	0.00
21.8	Insert Origin/destination	0.00	0.00	0.00
21.9	Insert Origin/destination	0.00	0.00	0.00
21.10	Insert Origin/destination	0.00	0.00	0.00
21.11	Insert Origin/destination	0.00	0.00	0.00
22.1	Insert Origin/destination	0.00	0.00	0.00
22.2	Insert Origin/destination	0.00	0.00	0.00
22.3	Insert Origin/destination	0.00	0.00	0.00
22.4	Insert Origin/destination	0.00	0.00	0.00
22.5	Insert Origin/destination	0.00	0.00	0.00
22.6	Insert Origin/destination	0.00	0.00	0.00
22.7	Insert Origin/destination	0.00	0.00	0.00
22.8	Insert Origin/destination	0.00	0.00	0.00
22.9	Insert Origin/destination	0.00	0.00	0.00
22.10	Insert Origin/destination	0.00	0.00	0.00
22.11	Insert Origin/destination	0.00	0.00	0.00
23.1	Insert Origin/destination	0.00	0.00	0.00
23.2	Insert Origin/destination	0.00	0.00	0.00
23.3	Insert Origin/destination	0.00	0.00	0.00
23.4	Insert Origin/destination	0.00	0.00	0.00
23.5	Insert Origin/destination	0.00	0.00	0.00
		0.00	0.00	0.00

23.6	Insert Origin/destination	0.00	0.00	0.00
23.7	Insert Origin/destination	0.00	0.00	0.00
23.8	Insert Origin/destination	0.00	0.00	0.00
23.9	Insert Origin/destination	0.00	0.00	0.00
23.10	Insert Origin/destination	0.00	0.00	0.00
23.11	Insert Origin/destination	0.00	0.00	0.00
24.1	Insert Origin/destination	0.00	0.00	0.00
24.2	Insert Origin/destination	0.00	0.00	0.00
24.3	Insert Origin/destination	0.00	0.00	0.00
24.4	Insert Origin/destination	0.00	0.00	0.00
24.5	Insert Origin/destination	0.00	0.00	0.00
24.6	Insert Origin/destination	0.00	0.00	0.00
24.7	Insert Origin/destination	0.00	0.00	0.00
24.8	Insert Origin/destination	0.00	0.00	0.00
24.9	Insert Origin/destination	0.00	0.00	0.00
24.10	Insert Origin/destination	0.00	0.00	0.00
24.11	Insert Origin/destination	0.00	0.00	0.00
Total				0.00

					Unit Type					
CLIN	Item Name	Item Description	Year	Currency	(MD's, lot, etc.)	Quantity		Profit		tal Cost
Exmpl. CLIN 1.1.1	Shipping	Shipping USA to BRU	2019	Euro (EUR)	Lot		2 3,000.00		.00	6,000.00
1.1	Insert Other Direct Cost item								.00	0.00
1.2	Insert Other Direct Cost item								.00	0.00
1.3	Insert Other Direct Cost item								.00	0.00
1.4	Insert Other Direct Cost item								.00	0.00
1.5	Insert Other Direct Cost item								.00	0.00
1.6	Insert Other Direct Cost item								.00	0.00
1.7	Insert Other Direct Cost item								.00	0.00
1.8	Insert Other Direct Cost item								.00	0.00
1.9	Insert Other Direct Cost item								.00	0.00
1.10	Insert Other Direct Cost item								.00	0.00
1.11	Insert Other Direct Cost item							0.	.00	0.00
1.12	Insert Other Direct Cost item							0.	.00	0.00
1.13	Insert Other Direct Cost item							0.	.00	0.00
1.14	Insert Other Direct Cost item							0.	.00	0.00
1.15	Insert Other Direct Cost item							0.	.00	0.00
1.16	Insert Other Direct Cost item							0.	.00	0.00
1.17	Insert Other Direct Cost item							0.	.00	0.00
1.18	Insert Other Direct Cost item							0.	.00	0.00
2.1	Insert Other Direct Cost item							0.	.00	0.00
2.2	Insert Other Direct Cost item							0.	.00	0.00
2.3	Insert Other Direct Cost item							0.	.00	0.00
2.4	Insert Other Direct Cost item							0.	.00	0.00
2.5	Insert Other Direct Cost item							0.	.00	0.00
2.6	Insert Other Direct Cost item							0.	.00	0.00
2.7	Insert Other Direct Cost item							0.	.00	0.00
2.8	Insert Other Direct Cost item							0.	.00	0.00
2.9	Insert Other Direct Cost item							0.	.00	0.00
2.10	Insert Other Direct Cost item							0.	.00	0.00
2.11	Insert Other Direct Cost item								.00	0.00
3.1	Insert Other Direct Cost item								.00	0.00
3.2	Insert Other Direct Cost item								.00	0.00
3.3	Insert Other Direct Cost item								.00	0.00
3.4	Insert Other Direct Cost item								.00	0.00
3.5	Insert Other Direct Cost item								.00	0.00
3.6	Insert Other Direct Cost item								.00	0.00
3.7	Insert Other Direct Cost item								.00	0.00
3.8	Insert Other Direct Cost item								.00	0.00
3.9	Insert Other Direct Cost item								.00	0.00
3.10	Insert Other Direct Cost item								.00	0.00
3.11	Insert Other Direct Cost item								.00	0.00
3.12	Insert Other Direct Cost item								.00	0.00
3.12	insert Other Direct Cost item							0.	.00	0.00

0.40			
3.13	Insert Other Direct Cost item	0.00	0.00
3.14	Insert Other Direct Cost item	0.00	0.00
4.1	Insert Other Direct Cost item	0.00	0.00
4.2	Insert Other Direct Cost item	0.00	0.00
4.3	Insert Other Direct Cost item	0.00	0.00
4.4	Insert Other Direct Cost item	0.00	0.00
4.5	Insert Other Direct Cost item	0.00	0.00
4.6	Insert Other Direct Cost item	0.00	0.00
4.7	Insert Other Direct Cost item	0.00	0.00
4.8	Insert Other Direct Cost item	0.00	0.00
4.9	Insert Other Direct Cost item	0.00	0.00
4.10	Insert Other Direct Cost item	0.00	0.00
4.11	Insert Other Direct Cost item	0.00	0.00
4.12	Insert Other Direct Cost item	0.00	0.00
4.13	Insert Other Direct Cost item	0.00	0.00
4.14	Insert Other Direct Cost item	0.00	0.00
4.15	Insert Other Direct Cost item	0.00	0.00
5.1	Insert Other Direct Cost item	0.00	0.00
5.2	Insert Other Direct Cost item	0.00	0.00
5.3	Insert Other Direct Cost item	0.00	0.00
5.4	Insert Other Direct Cost item	0.00	0.00
5.5	Insert Other Direct Cost item	0.00	0.00
5.6	Insert Other Direct Cost item	0.00	0.00
5.7	Insert Other Direct Cost item	0.00	0.00
5.8	Insert Other Direct Cost item	0.00	0.00
5.9	Insert Other Direct Cost item	0.00	0.00
5.10	Insert Other Direct Cost item	0.00	0.00
6.1	Insert Other Direct Cost item	0.00	0.00
6.2	Insert Other Direct Cost item	0.00	0.00
6.3	Insert Other Direct Cost item	0.00	0.00
6.4	Insert Other Direct Cost item	0.00	0.00
6.5	Insert Other Direct Cost item	0.00	0.00
6.6	Insert Other Direct Cost item	0.00	0.00
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6.9	Insert Other Direct Cost item	0.00	0.00
6.10	Insert Other Direct Cost item	0.00	0.00
7.1	Insert Other Direct Cost item	0.00	0.00
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7.3	Insert Other Direct Cost item	0.00	0.00
7.4	Insert Other Direct Cost item	0.00	0.00
7.5	Insert Other Direct Cost item	0.00	0.00
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7.8	Insert Other Direct Cost item	0.00	0.00
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7.10	Insert Other Direct Cost item	0.00	0.00
8.1	Insert Other Direct Cost item	0.00	0.00
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8.4	Insert Other Direct Cost item	0.00	0.00
8.5	Insert Other Direct Cost item	0.00	0.00
8.6	Insert Other Direct Cost item	0.00	0.00
8.7	Insert Other Direct Cost item	0.00	0.00
8.8	Insert Other Direct Cost item	0.00	0.00
8.9	Insert Other Direct Cost item	0.00	0.00
8.10	Insert Other Direct Cost item	0.00	0.00
9.1	Insert Other Direct Cost item	0.00	0.00
9.2	Insert Other Direct Cost item	0.00	0.00
9.3	Insert Other Direct Cost item	0.00	0.00
9.4	Insert Other Direct Cost item	0.00	0.00
9.5	Insert Other Direct Cost item	0.00	0.00
9.6	Insert Other Direct Cost item	0.00	0.00
9.7	Insert Other Direct Cost item	0.00	0.00
9.8	Insert Other Direct Cost item	0.00	0.00
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10.1	Insert Other Direct Cost item	0.00	0.00
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10.10	Insert Other Direct Cost item	0.00	0.00
11.1	Insert Other Direct Cost item	0.00	0.00
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11.10	Insert Other Direct Cost item	0.00	0.00
12.1	Insert Other Direct Cost item	0.00	0.00
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13.10	Insert Other Direct Cost item	0.00	0.00
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15.1	Insert Other Direct Cost item	0.00	0.00
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24.8	Insert Other Direct Cost item	0.00	0.00
24.9	Insert Other Direct Cost item	0.00	0.00
24.10	Insert Other Direct Cost item	0.00	0.00
24.11	Insert Other Direct Cost item	0.00	0.00
Total		0.00	0.00
			0.00

Rate Name	Rate description*	Percentage
[Insert Rate Name]		0%