



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
Μόνιμη Αντιπροσωπεία της Ελλάδος
στο ΝΑΤΟ

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Βρυξέλλες, 05 Σεπτεμβρίου 2022
Α.Π.: 4517

ΠΡΟΣ: ΥΠΟΥΡΓΕΙΟ ΕΘΝΙΚΗΣ ΑΜΥΝΑΣ
- ΓΔΑΕΕ/ΔΑΕΤΕ (μ.η.)

ΚΟΙΝ.: ΥΠΟΥΡΓΕΙΟ ΕΞΩΤΕΡΙΚΩΝ ΓΕΕΘΑ
- κ. Δ' Γενικό Διευθυντή - Γ2 Διεύθυνση
- Δ2 Διεύθυνση
ΥΠΟΥΡΓΕΙΟ ΑΝΑΠΤΥΞΗΣ
- Γενική Γραμματεία Εμπορίου (μ.η.)
- Γενική Γραμματεία Βιομηχανίας/
Διεύθυνση Διεθνών Βιομηχανικών
Σχέσεων (μ.η.)
ΤΕΧΝΙΚΟ ΕΠΙΜΕΛΗΤΗΡΙΟ ΕΛΛΑΔΟΣ
- Διεύθυνση Επαγγελματικής
Δραστηριότητας (μ.η.)

ΘΕΜΑ: 1^η Τροποποίηση Πρόσκλησης Υποβολής Προσφορών IFB-CO-115415-DSGT, Διαγωνιστικής Διαδικασίας: "Provide Multi-band Deployable Satellite Ground Terminals (DSGT) Pool"

Διαβιβάζεται, συνημμένως, 1^η Τροποποίηση Πρόσκλησης Υποβολής Προσφορών (invitation For Bids/IFB) εν θέματι διεθνούς διαγωνιστικής διαδικασίας (International Competitive Bidding/ICB), εκ μέρους ΝCΙΑ ως φιλοξενούντος έθνους.

Καταληκτική ημερομηνία υποβολής προσφορών ορίζεται η 31^η Οκτωβρίου τ.έ, 17:00 τ.ώ.

Ενδιαφερόμενες εταιρίες δύνανται αναζητήσουν πληροφορίες μέσω καθορισμένου σημείου επαφής (Point of Contact/POC, βλ. παρ. 8 τροποποιήσεως).

Παρακαλούμε για τις ενέργειές σας.

Λ Α Μ Π Ρ Ι Δ Η Σ

Συν. σελ.: 147

ΑΚΡΙΒΕΣ ΑΝΤΙΓΡΑΦΟ
Η υπάλληλος της Μ.Α. ΝΑΤΟ
Αικατερίνη Νικάκη
Τμηματάρχης Α' ΕΠ & ΠΛ



Acquisition

IFBCO115415DSGT@ncia.nato.int

NCIA/ACQ/2022/07097
30 August 2022

To: Distribution List
Subject: AMENDMENT No.1 to Invitation for Bid: IFB-CO-115415-DSGT
“PROVIDE MULTI-BAND DEPLOYABLE SATELLITE GROUND
TERMINALS (DSGT) POOL”

Project Serial: 2016/0CM03114

Reference: A. AC/4(PP)D/28060-ADD1 dated 10 January 2022
B. AC/4-DS(2022)0001 dated 14 March 2022, NATO IC Decision Sheet
C. NCI Agency Notification of Intent to Invite Bids with reference
NCIA/ACQ/2022/06771 dated 29 April 2022
D. NCI Agency Invitation For Bid: IFB-CO-115415-DSGT with reference
NCIA/ACQ/2022/06959 dated 30 June 2022

Dear Sir/Madam,

1. At Reference D your firm was invited to participate in an International Competitive Bidding for the provision of sixteen (16) x new multi-band (X- & military Ka-band) Deployable Satellite Ground Terminals (DSGT), including one for training and another one for a reference system.
2. The purpose of this Amendment 1 is to:
 - a) Publish Purchaser’s answers to the Clarification Requests (CRs) received to date from the potential Bidders for the subject IFB. The Purchaser is providing response to the CRs received by the potential Bidders in Annex A to this letter;
 - b) Issue revised IFB documents (Book I and Book II), as follows:
 - IFB-CO-115415-DSGT-AMD1 - Book II, Part IV, SOW, Annex A (SRS) - as a consequence of the responses to some CRs;
 - IFB-CO-115415-DSGT-AMD1 - Book II, Part II, Contract Special Provisions – as a consequence of the new article 35. *NCI Agency Supplier Code of Conduct*
 - c) Extend the bid closing date.
3. Upon request from more than one NATO Delegation and in accordance with paragraph 10 of AC/4-D/2261 (July 1996 Edition), the closing time for the submission of bids in response to this IFB is hereby **extended with 30 days to 17:00 Hours (Brussels time) on 31 OCTOBER 2022.**



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4. Some answers to Bidders questions have necessitated changes to the IFB bidding documents. Revised bidding documents as indicated in Paragraph 2 above is attached to this IFB Amendment 1 and replaces the original versions in its entirety (the changes are marked in red). Potential Bidders are strongly advised to carefully review revised bidding documents
5. With the exception of the revisions mentioned above, all other IFB documents remain unchanged from their original version as issued on 30 June 2022.
6. Prospective Bidders are advised that the NATO NCI Agency reserves the right to cancel 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 occurs.
7. The reference for the IFB is: **IFB-CO-115415-DSGT** and all correspondence concerning this IFB should reference this number.
8. The Purchaser point of contact for all information concerning this Invitation for Bid is:
NATO Communications and Information Agency
Boulevard Leopold III, B-1110 Brussels, Belgium
Attn: Irina Barabancea, Contracting Officer
Email: IFBCO115415DSGT@ncia.nato.int

FOR THE CHIEF OF ACQUISITION:

**Tiziana
Pezzi** Digitally signed by
Tiziana Pezzi
Date: 2022.08.31
08:54:37 +02'00'

Tiziana Pezzi
Principal Contracting Officer

Enclosures:

- 1) Annex A - Purchaser's answers to the Clarification Requests
- 2) Revised Bidding Documents:
 - a) IFB-CO-115415-DSGT-AMD1 - Book II, Part IV, SOW, Annex A (SRS)
 - b) IFB-CO-115415-DSGT-AMD1 - Book II, Part II, Contract Special Provisions



ACKNOWLEDGEMENT OF RECEIPT OF AMENDMENT No.1
To IFB-CO-115415-DSGT

Please complete and return within 7 days by email to the POC

We hereby advise that we have received Amendment 1 to the Invitation for Bid **IFB-CO-115415-DSGT** on, together with all enclosures listed in the Table of Contents.

CHECK ONE

- As of this date and without commitment on our part, we **do intend** to submit a quotation.
- We **do not intend** to submit a quotation.
- We are reviewing the requirements of the IFB and will notify you of our decision as soon as possible.

Signature

Company

Address

POC

Tel.

Fax

E-mail

**DISTRIBUTION LIST FOR Amendment No.1 to INVITATION FOR BID
IFB-CO-115415-DSGT**

Potential Bidders (sent separately in electronic version)

NATO Delegations (Attn: Investment Adviser):

Albania	1
Belgium	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
Netherlands	1
Norway	1
Poland	1
Portugal	1
Romania	1
Slovakia	1
Slovenia	1
Spain	1
Turkey	1
The United Kingdom	1
The United States of America	1
<u>Belgian Ministry of Economic Affairs</u>	1

Embassies in Brussels (Attn: Commercial Attaché):

Albania	1
Belgium	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
Netherlands	1
Norway	1
Poland	1
Portugal	1
Romania	1
Slovakia	1
Slovenia	1
Spain	1
Turkey	1
The United Kingdom	1
The United States of America	1

All Nominated Prospective Bidders

Country	Company
Canada	Advantech Wireless Technologies Inc. Calian, Advanced Technologies Comtech SNT Corp C-COM Satellite Systems Inc. ROCK Networks Inc. General Dynamics Mission Systems SpaceBridge Inc. Terranova Defense Solutions Incorporated Ultra Electronics TCS Inc. (Operating as "Ultra Communications") Network Innovations Inc.
France	ACTIA Telecom Airbus Defence and Space SAS Kratos Communications
Germany	Airbus Defence and Space GmbH ND SatCom GmbH NSSL Global GmbH
Italy	ESYEN Sri General Dynamics Mission Systems Italy S.r.l. IES Sri LEONARDO S.p.A. MILANO TELEPORT Sri SUPPORT LOGISTIC SERVICES Sri Telespazio S.p.a.

Norway	Airbus Defence and Space AS
Poland	GISS Sp. z o.o.
Portugal	ALPHA C2 – Comércio e Indústria de Sistemas Eletrónicos de Comunicações e de Tecnologias Militares, Unipessoal, Lda.
Spain	AICOX Soluciones SA DEIMOS SPACE, S.L.U. Inster Tecnologia y Comunicaciones,SAU. Indra Sistemas s.a. Telefonica de España, Defensa y Seguridad
The Netherlands	Network Innovations B.V.
The United Kingdom	Global Radiodata Communications Ltd. Millexia UK Teledyne Limited Ultra Electronics Enterprises
The United States of America	Bushtex, Inc. CPI Satcom & Antenna Technologies Inc. Globecomm Systems, Inc. L3 Technologies, Inc. OneVUE Consulting LLC Secure Federal Operations LLC STS Global, Inc. UltiSat, Inc.

Distribution for information (Blind to Potential Industrial Suppliers):

NATO International Staff

NATO Office of Resources
Management and Implementation Branch
Attn: Deputy Branch Chief

Director, NATO HQ C3 Staff
Attn: Executive Co-ordinator

SACTREPEUR
Attn: Infrastructure Assistant

Strategic Commands *(as applicable to funding source)*

SACT Attn: ACOS C4ISR

ACO Attn: SPT CIS Director

NATEXs

All NATEXs

NCI Agency (Internal distribution)

Date: 30 August 2022

ADMINISTRATION or CONTRACTING					
Serial Nr	IFB Book	IFB Section Ref.	QUESTION	ANSWER	IFB amended
A.1	Book I - Bidding Instructions	Section 1 – General Bidding Information -Paragraphs 2.3, 2.4	<i>In accordance with AC/4-D/2261 (July 1996 Edition), we respectfully request a 30-day extension to the current submission deadline.</i>	The bid closing date is extended with 30 days and the new bid closing date is 31 October 2022.	No amendment to IFB required
A.2	Book I - Bidding Instructions	Section 1 – General Bidding Information Paragraph 2.1.1.7	<i>Our usual antenna supplier is based in Sweden, hence the initial question and we are unable to progress with our proposal until it has been clarified if we can use a Swedish supplier, as they are soon to become NATO members?</i>	Participating Nations means Nations who have participated in the funding. Sweden has not participated in the funding, therefore at this moment Sweden is out of the participating NATO Nations for this project.	No amendment to IFB required
A.3	Book II – Part II, Contract Special Provisions	Paragraph 7.4	<i>Article 7.4 does not specify any grace period before applying liquidated damages. Can you please confirm if there is any kind of grace period?</i>	In response to the question on grace period before application of LDs, it is confirmed there is no grace period foreseen.	No amendment to IFB required
A.4	Book II – Part II, Contract Special Provisions	Paragraph 7.5	<i>Article 7.5 states that additional tasks / deliverables can be requested. Please confirm if those request can only be submitted during project execution (including warranty)</i>	The order of additional tasks/ deliverables shall be done during the project execution (incl. warranty) and during the post-warranty 5-year In-Service-Support (once the option is exercised and formalized in a Contract amendment).	No amendment to IFB required

PRICE					
Serial Nr	IFB Book	IFB Section Ref.	QUESTION	ANSWER	IFB amended
P.1	Book I – Bidding Instructions	Bidding Sheets	<i>Regarding overheads to be applied to costs, in the case of a consortium where we have different companies with different overheads, what is the best way to proceed in the excel sheet?</i>	<p>Overhead, G&A, material handling and other indirect rates do not need to be separately calculated in the detailed sheets but must be included in the totals for each category (Labour/Material/Travel/ODC) as appropriate. I.e., 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.</p> <p>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).</p> <p>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 detailed calculations. The list of these rates will be requested in pre-contract award from the winning bidder.</p> <p>In the event different overhead rates are applied, you need to list the different overhead rates (per company) in the "Rates" tab (this will be requested in pre-contract award) and, if you decide to (not mandatory in the bidding stage), show the overhead calculation per CLIN in each of the detailed tabs. The key is that the total sum of the "fully burdened" cost column should equal the grand total cost for each category (Labour, Material, Travel and ODC) to include profit as well as all indirect rates (G&A/Overhead/Material handling/etc.) associated with that category.</p>	No amendment to IFB required

TECHNICAL					
Serial Nr	IFB Book	IFB Section Ref.	QUESTION	ANSWER	IFB amended
T.1	Book II, Part IV (SOW) – Annex A (SRS)	SRS-4	<i>SRS-4 The MB-DSGT shall support multi-carrier operation of satellite communications. How many simultaneous carriers must the MB-DSGT support in multicarrier operation?</i>	It can be any number.	No amendment to IFB required
T.2	Book II, Part IV (SOW) – Annex A (SRS)	SRS-26	<i>SRS-26 "The amplifier (shall be GaN based)" Is it mandatory to use GaN technology amplifiers or can other equivalent technologies be proposed?</i>	GaN amplifiers shall be used. GaAs amplifiers are not acceptable.	No amendment to IFB required
T.3	Book II, Part IV (SOW) – Annex A (SRS)	SRS-187	<i>SRS-187. "The MB-DSGT system shall continue to meet all requirements specified throughout this SRS (including RF and system performance) while the camouflage nets are fitted on any components of the MB-DSGTS" Could you confirm if the system should fulfill the values of PIRE and G/T specified?</i>	PIRE-->EIRP? The system shall fulfill the specified EIRP and G/T values with camouflage nets.	No amendment to IFB required
T.4	Book II, Part IV (SOW) – Annex A (SRS)	SRS-207	<i>SRS-207 "The system shall have the required interfaces to be fully interoperable with below systems: DBACS, DSGT modem cases, The 4th generation, multiband TSGTs, The existing TSGTs." Could you provide information about these systems?</i>	The connections to these systems are shown under Employment Scenarios 1.1 as well as under Section 2, which give the required information for MB-DSGT side.	No amendment to IFB required

T.5	Book II, Part IV (SOW) – Annex A (SRS)	SRS-379	<i>SRS-379 "Operating system and applications shall be approved by Security Accreditation Authority (SAA)". Could you provide the NATO Approved Field Product List (AFPL)?</i>	Please find attached the AFPL file.	No amendment to IFB required
T.6	Book II, Part IV (SOW) – Annex A (SRS)	SRS-246	<i>SRS-246 The total power consumption of 4kVA is also excluding the antenna motors or just the de-icer?</i>	Just the de-icer as stated in the requirement.	No amendment to IFB required
T.7	Book II, Part IV (SOW) – Annex A (SRS)	SRS-276	<i>SRS-276 Where "ground stub" perhaps is "Ground stud"?</i>	The correct terminology is "ground stud".	Please see Amendment 1, Book II, Part IV (SOW) – Annex A (SRS)
T.8	Book II, Part IV (SOW) – Annex A (SRS)	SRS-320	<i>In SRS-320, the height of 500mm for vertical free-fall is for all the weights? Or should be also considered the weight of the assembly to select the vertical free fall height? For example, items mounted on the antenna, all the antenna assembly should be tested to 500mm free fall?</i>	SRS-320 shall be applied to equipment mounted in transport or transit cases. For the rest, SRS-319 applies respectively to the weight of given item.	No amendment to IFB required
T.9	Book II, Part IV (SOW) – Annex A (SRS)	SRS-325	<i>In SRS-325, Ingress protection affects just to IP ratings? Or also to dust and sand?</i>	Ingress Protection refers to the protection an item offers against the intrusion of the two categories of foreign bodies, i.e. solid (e.g. dust) and liquid (water). In other words, IP rating covers both dust/sand and water. Please see the full SRS requirements and specifically Section 3.7.3 (full section) and SRS 327 - items 8) and 14).	No amendment to IFB required

<p>T.10</p>	<p>Book II, Part IV (SOW) – Annex A (SRS)</p>	<p>SRS-325</p>	<p><i>In SRS-325, regarding 8) Acidic atmosphere, couldn't find requirements for this testing only the method.</i></p>	<p>The SRS Section 3.7.5 heading will updated as follows; "3.7.5 Salt Mist/Acidic Atmosphere" A new requirement will be added under Section 3.7.5 of SRS for acidic atmosphere with a new requirement number SRS-298- b) 3.7.5 Salt Mist/Acidic Atmosphere SRS-298 Material shall withstand: a) salt mist environments at severity level 4 of [IEC 60068-2-52:2017] for operation (outdoor equipment only), transport, storage and handling conditions; b) acidic atmosphere conditions for operation (outdoor equipment only), transport, storage and handling conditions: 1) Severity <ul style="list-style-type: none"> • Three 2-hour spraying periods with 22 hours storage after each (as per MIL-STD-810G w/Change 1, 2014, method 518.2). 2) Use a test solution containing 11.9mg (6 Pl) sulphuric acid (95-98 percent)/4 litres (4.23 qt) of solution, and 8.8mg (6 Pl) nitric acid (68-71 percent)/4 litres (4.23 qt) solution in distilled or deionized water.</p>	<p>Please see Amendment 1, Book II, Part IV (SOW) – Annex A (SRS), Section 3.7.5 - SRS-298</p>
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T.11	Book II, Part IV (SOW) – Annex A (SRS)	SRS-325	<i>In SRS-325, regarding 10) Combined stress testing, couldn't find requirements or method for this testing.</i>	There is no combined stress-testing requirement. SRS-325- item 10) <i>Combined stress testing</i> will be deleted.	Please see Amendment 1, Book II, Part IV (SOW) – Annex A (SRS)
T.12	Book II, Part IV (SOW) – Annex A (SRS)	SRS-178	<i>In SRS-178, camouflage net usually allows water pass through the surface covered by the camouflage net. Can waterproofness be considered as the no water absorption property, or should it not allow the water passing through?</i>	Waterproofness of the camouflage net shall be understood as no water absorption property.	No amendment to IFB required
T.13	Book II, Part IV (SOW) – Annex A (SRS)	SRS-145	<i>SOW-145: Please, could send more details about weather stations?</i>	Weather station shall be rapidly field-deployable, compact, capable of monitoring environmental parameters (such as but not limited to wind, air temperature, humidity, pressure, precipitation). It shall withstand the environmental conditions given in the SRS.	Please see Amendment 1, Book II, Part IV (SOW) – Annex A (SRS) Section 2 - System Overview [19] – item 8)
T.14	Book II, Part IV (SOW) – Annex A (SRS)	SRS-77	<i>SRS-77: The requirements for reels on points 4 and 5 seem to be pointed to spring reels, but for this length (250m and 500m) are not possible. Could be manual reels?</i>	For fibre cable length greater than 100 m, manual (no spring-driven) reels shall be provided.	Please see Amendment 1, Book II, Part IV (SOW) – Annex A (SRS)
T.15	Book II, Part IV (SOW) – Annex A (SRS)	SRS-327	<i>SRS-327: Could you confirm that the test method can be demonstrated by design without certificated lab?</i>	SRS-327 specifies test methods to demonstrate compliance. SRS-325 and SRS-326 specifies which test and where shall be conducted. Demonstration of the above only by a design is not acceptable.	No amendment to IFB required

T.16	Book II, Part IV (SOW) – Annex A (SRS)	SRS-181	<i>SRS-181: In camouflage nets, is it valid to obtain gloss reduction through alternative methods to "coating", such as production methods or special fabrics?</i>	Coating is a general term used while formulating this requirement. The goal shall be the reduction of shine and glare, achieved whether by coating, production method or special fabrics.	Please see Amendment 1, Book II, Part IV (SOW) – Annex A (SRS)
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IFB-CO-115415-DSGT

**PROVIDE MULTI-BAND DEPLOYABLE SATELLITE GROUND
TERMINALS (MB-DSGT) POOL**

BOOK II

PART II

CONTRACT SPECIAL PROVISIONS

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IFB-CO-115415-DSGT
Book II – Prospective Contract
Part II – Special Provisions

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Contract Part II – Page 2

1 ALTERATIONS, MODIFICATIONS AND DELETIONS OF THE CONTRACT GENERAL PROVISIONS

- 1.1 Article 2 “ORDER OF PRECEDENCE” replaces Clause 1 “Order of Precedence” of the Contract General Provisions.
- 1.2 Article 4 “TYPE OF CONTRACT AND PRICE BASIS” augments Clause 7 “Firm Fixed Price Contract” of the Contract General Provisions.
- 1.3 Article 5 “PLACE AND TERMS OF DELIVERY” augments Clause 26 “Taxes and Duties” and Clause 20 “Notice of Shipment and Delivery” of the Contract General Provisions.
- 1.4 Article 8 “PRICING OF CHANGES, AMENDMENTS, OPTIONS, FOLLOW-ON CONTRACTS AND CLAIMS” augments Clause 19 “Pricing of Changes, Amendments and Claims” of the Contract General Provisions.
- 1.5 Article 9 “PARTICIPATING COUNTRIES” augments Clause 9 “Participating Countries” of the Contract General Provisions.
- 1.6 Article 10 “INTELLECTUAL PROPERTY RIGHT INDEMNITY AND ROYALTIES” augments Clause 30 “Intellectual Property” of the Contract General Provisions.
- 1.7 Article 15 “SECURITY” augments Clause 11 “Security” of the Contract General Provisions.
- 1.8 Article 16 “ACCEPTANCE OF DOCUMENTATION AND SERVICE” augments Clause 21 “Inspection and Acceptance of Work” and Clause 22 “Inspection and Acceptance of Documentation” of the Contract General Provisions.
- 1.9 Article 17 “INVOICES AND PAYMENT” augments Clause 25 “Invoices and Payment” of the Contract General Provisions.
- 1.10 Article 19 “LIQUIDATED DAMAGES” augments Clause 38 “Liquidated Damages” of the Contract General Provisions.
- 1.11 Article 26 “PERFORMANCE GUARANTEE” replaces sub-clauses 8.1, 8.4 and 8.5 “Performance Guarantee” of the Contract General Provisions.
- 1.12 Article 28 “SUB-CONTRACTS” augments Clause 10 “Sub-contracts” of the Contract General Provisions.
- 1.13 Article 30 “RIGHT OF ACCESS, EXAMINATION OF RECORDS” supplements Article 28 “Right of Access, Examination of Records” of the Contract General Provisions
- 1.14 Article 33 “RELEASE OF INFORMATION” augments Clause 12 “Release of Information” of the Contract General Provisions.

2 ORDER OF PRECEDENCE

- 2.1 This Article replaces Clause 1 of the Contract General Provisions.
- 2.2 In the event of any inconsistency in language, terms or conditions of the various parts of this Contract, precedence will be given in the following order:

- 2.2.1 The Signature Page;
- 2.2.2 The Contract Schedule of Supplies and Services, Part I;
- 2.2.3 The Contract Special Provisions, Part II;
- 2.2.4 The Contract General Provisions, Part III;
- 2.2.5 The Statement of Work, Part IV and its Annexes.

3 SCOPE OF WORK

- 3.1 The scope of this contract is to provide the overall management, design, delivery, installation, activation, operational training and integrated logistics support as detailed in this Contract to provide sixteen (16) x new multi-band (X- & military Ka-band) Deployable Satellite Ground Terminals (DSGT), including one for training and another one for a reference system.
- 3.2 The Contractor shall provide the supplies and services indicated in the Schedule of Supplies and Services (SSS) and perform the work described in the Statement of Work (SOW) for the implementation of the above stated NATO project.
- 3.3 The Base Contract encompasses the supply of CLINs 1 to 7, while CLIN 8 is an Optional CLIN that the Purchaser has the right to exercise within the timeframe indicated in Article 7 Options.
- 3.4 The agreement and signature of this Contract by the Parties neither implies an obligation on either part to extend the Contract beyond the specified scope or terms, nor to prohibit the Parties from mutually negotiating modifications thereto.

4 TYPE OF CONTRACT AND PRICE BASIS

- 4.1 This Article augments Clause 7 of the Contract General Provisions.
- 4.2 This is a Firm Fixed Price Contract. The Purchaser assumes no liability for costs incurred by the Contractor in excess of the stated Firm Fixed Price except as provided under other provisions of this Contract. The Total Contract price is inclusive of all expenses related to the performance of the present contract.

5 PLACE AND TERMS OF DELIVERY

- 5.1 Clause 26 (Taxes and Duties) and Clause 20 (Notice of Shipment and Delivery) of the General Provisions are supplemented by the following:
- 5.2 Supplies and services under this Contract shall be delivered DDP (Delivery Duty Paid) in accordance with the International Chamber of Commerce INCOTERMS 2020 to the destination(s) and at such times as set forth in the Schedule of Supplies and Services.

- 5.3 The Contractor shall note that the Purchaser is exempt from customs duties and VAT.
- 5.4 Inventory information shall be sent directly to:
NATO Communications and Information Agency
XXXXXXXXXXXXXXXX
NATO Headquarters, Boulevard Leopold III
1110 Brussels, Belgium
Attention: XXXXXXXXXXXXXXXX
E-mail: XXXX.XXXXXX@ncia.nato.int
- 5.5 The Purchaser reserves the right at any time to change the sequence of the MB-DSGT implementations at no additional cost to the Purchaser providing at least thirty (30)-day notice is given to the Contractor in advance to the scheduled delivery/ start of work.
- 5.6 The Contractor will have no right for any claims or recourse with respect to a delay in the Purchaser's confirmation of start of work, as long as the delay does not exceed ninety (90) days from the initially scheduled delivery/ start of work. This delay also applies to the delivery of all Purchaser Furnished Property (PFP).

6 EFFECTIVE DATE OF CONTRACT AND PERIOD OF PERFORMANCE

- 6.1 The Contract shall come into force at the date specified in the Signature Sheet of the Contract, and such date is referred hereafter as the Effective Date of Contract (EDC).
- 6.2 The Contractor shall start work under the contract as from the Effective Date of Contract and shall complete deliveries and works in accordance with the dates indicated in the Schedule of Supplies and Services.
- 6.3 For the performance of some tasks under this contract, the Contractor will need to receive PFP from the Purchaser, as specified in the SOW. The Purchaser will endeavour to make available the required PFP to the Contractor in due time. In case the required PFP are not ready in due time, the parties will agree on a revised date for availability of PFP and the contract schedule will be revised accordingly at no cost to either parties. The Contractor will have no right for any claims in reference to a delay in the Purchaser's availability of PFP, as long as the delay does not exceed ninety (90) days from the expected date of availability of PFP.
- 6.4 Performance is deemed to have been achieved only when the supplies, documents and services ordered under this Contract have duly been provided in compliance with the requirements of this Contract at the place of performance and accepted in writing by the Purchaser. Performance shall be subject to the inspection clauses of this Contract.
- 6.5 If for any reasons the tasks to be performed against a specific CLIN are successfully completed in less the maximum number of hours shown in the

schedule, the milestone will be completed at an earlier date than forecasted. In case of such early completion the Purchaser and Contractor will commonly agree that the contract has been completed and no Contractor claim related to this early completion will be accepted.

- 6.6 The Period of Performance may be extended by up to **five (5) years**, by exercise of the Options specified in Article 7“OPTIONS” hereunder.
- 6.7 The Purchaser will communicate to the Contractor the intention to exercise the Options 3 months prior to the completion of the warranty. Start date of the Optional Years will be notified to the Contractor at least 1 month prior to the commencement of provision of the services through formal Contract Amendment as detailed under Article 7.3 hereunder.

7 OPTIONS

- 7.1 The tasks identified in the Contract Schedule of Supplies and Services as Options are to be intended as options to be exercised by the Purchaser unilaterally and at its sole discretion.
- 7.2 The Contractor 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)
- 7.3 The Purchaser will communicate the intention to exercise the Options by written notice to the Contractor from Effective Date of Contract to not later than 3 months prior to the end of warranty. The Purchaser has the right to exercise this option at any time within this period at his discretion. **Start date of the Optional Years will be notified in writing to the Contractor through a formal Contract Amendment which will be signed by the Parties no later than one (1) month before the end of the Contract (end of warranty), in order for the provision of services under the Option to begin.**
- 7.4 **CLIN 8** in Part I - Schedule of Supplies and Services represents Option for a 5-year period In Service Support post-warranty of the delivered systems. The Purchaser shall notify the Contractor of its intent to exercise this Option within the timelines specified under Article 7.3. For the exercised Option Years (i.e. CLIN 8 - In Service Support - Post Warranty for five (5)-year service period), a Contract Amendment will be issued by the Purchaser confirming the notification previously provided and obligating an amount of funding for the total Contract value.
- 7.5 In addition to the above, the Purchaser reserves the right to order any foreseeable or additional Contract tasks or deliverables, listed or not, either occasionally or at a further stage in the life of the project, which it deems necessary for the successful completion of the project. The additional tasks and/or deliverables shall be priced in using the pricing details and rates per CLIN and price category (Labour/Material/Travel/ODC/Rates) provided by the

Contractor as part of its Price proposal (Bidding Sheets) and included in this Contract by reference, in accordance with the provisions of Article 7 below.

- 7.6 The Purchaser may, in writing, place an order for such additional tasks throughout the entire Contract period of performance. Such an order may be placed within the framework of this Contract via the issuance of a Contract Amendment or be formulated via the issuance of a new contractual instrument.
- 7.7 The Purchaser reserves the right to request 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.
- 7.8 The Purchaser may increase the quantity of supplies and services as set forth in any line item of Part I - Schedule of Supplies and Services at the prices stated therein any time during the period of performance of the Contract until end of Warranty. This right can be exercised multiple times for any of the line items, by increasing the firm fixed price of the Contract via a formal Contract Amendment, or by issuing a new contractual instrument. In this case the Contractor shall honor such right at the same rates and conditions as stated in Part I – Schedule of Supplies and Services.
- 7.9 If this right is exercised, delivery of the added items shall be to the same destination as specified in the basic Contract; unless otherwise specified on the written notice. If the Contract provides for multiple destinations, the Purchaser will specify to which destination(s) the additional quantities are to be shipped. If the Purchaser specifies a destination that is not part of the basic Contract requirements, the Parties will agree to an equitable adjustment as may be required to reflect any additional costs incurred by the Contractor in making such delivery.

8 PRICING OF CHANGES, AMENDMENTS, OPTIONS, FOLLOW-ON CONTRACTS AND CLAIMS

- 8.1 This Article augments Clause 19 of the Contract General Provisions.
- 8.2 The Purchaser may at any time, by written order designated or indicated to be a Change Order, and without notice to the sureties, if any, make changes within the scope of any Contract or Task Order, in accordance with Clause 16 (Changes) of the Contract General Provisions.
- 8.3 Changes, modifications, follow-on Contracts of any nature, and claims shall be priced in accordance with Clause 19 (Pricing of Changes, Amendments and Claims) of the Contract General Provisions, and with the "Purchaser's Pricing Principles" as set out in the Annex 1 to the Contract General Provisions.
- 8.4 Contractor's pricing proposals shall be fair and reasonable and subject to agreement at the time when the change is ordered.

- 8.5 Contractor price quotations for Contract changes or modifications shall be provided at no cost to the Purchaser and shall have a minimum validity period of six (6) months from submission.
- 8.6 The pricing information contained in the cost breakdown sheets submitted with the Bidding Sheets, as part of the Contractor's Price Proposal, will constitute the basis for Contractor's pricing proposals for Changes and Claims, and any future negotiations related to possible future amendments to this Contract. The Contractor will use all reasonable endeavours to maintain the prices specified therein. Changes to these prices shall be accompanied with documentation and explanation of the change.
- 8.7 Contractor's pricing proposals shall be established in the currency of the Contract as stated on the Signature Page. Prices may also be stated in any currency of the Participating NATO Countries provided that, and only to the extent that, the Contractor has expenses in the currency directly related to the current Contract.
- 8.8 Each Contractor's pricing proposal shall be accompanied by the certifications required by Clauses 19.6 and 19.7 of the Contract General Provisions.

9 PARTICIPATING COUNTRIES

- 9.1 This Article augments Clause 9 of the Contract General Provisions.
- 9.2 The following NATO member nations have agreed to fund this acquisition effort: (in alphabetical order):
ALBANIA, BELGIUM, BULGARIA, CANADA, CROATIA, CZECH REPUBLIC, DENMARK, ESTONIA, FRANCE, GERMANY, GREECE, HUNGARY, ICELAND, ITALY, LATVIA, LITHUANIA, LUXEMBOURG, NETHERLANDS, NORWAY, POLAND, PORTUGAL, ROMANIA, SLOVENIA, SLOVAKIA, SPAIN, TÜRKIYE, THE UNITED KINGDOM and THE UNITED STATES OF AMERICA.
- 9.3 The Contractor may issue sub-contracts to firms and purchase from qualified vendors from any participating NATO member nation. None of the work, including project design, labour and services, shall be performed other than by firms from and within Participating Countries, as per NATO policy.
- 9.4 The Contractor shall notify in writing to the Purchaser immediately upon being informed of any change in the nationality of its Sub-contractor(s) which would prevent the Contractor from further complying with Article 9.3 above. Upon receipt of this information from the Contractor, the Purchaser may, within three months from this notification, require the Contractor to find an alternate subcontractor, complying with the requirements set out in Article 9.3 above.
- 9.5 Unless authorised by NATO Policy, no material or items of equipment down to and including identifiable sub-assemblies delivered under this Contract shall be

manufactured or assembled by a firm other than from and within a Participating Country. This applies to (Sub-)Contractor/Third Party-Owned equipment as well.

- 9.6 The Intellectual Property Rights (including (Sub-)Contractor/Third Party-Owned IPR) to all designed documentation and system operating software shall reside in Participating Countries, and no license fee, or royalty charges shall be paid by the Contractor to firms, individuals or governments other than within the Participating Countries community.

10 INTELLECTUAL PROPERTY RIGHT INDEMNITY AND ROYALTIES

- 10.1 This Article augments Clause 30 (Intellectual Property) of the Contract General Provisions.
- 10.2 The Contractor shall assume all liability and indemnify the Purchaser, its officers, agents and employees against liability, including costs for the infringement of any patents or copyright in force in any countries arising out of the manufacture, services performed or delivery of supplies, or out of the use or disposal by or for the account of the Purchaser of such supplies. The Contractor shall be responsible for obtaining any patent or copyright licenses necessary for the performance of this Contract and for making all other arrangements required to indemnify the Purchaser from any liability for patent or copyright infringement in said countries.
- 10.3 The Contractor shall exclude from his prices any royalty pertaining to patents which in accordance with agreements reached between NATO countries may be utilised free of charge by member nations of NATO and by NATO organizations.
- 10.4 The Contractor shall report in writing to the Purchaser during the performance of this Contract the royalties excluded from his price for patent utilised under the agreements mentioned in paragraph above and the amount of royalties paid or to be paid by the Contractor directly to others in performance of this Contract.

11 CONTRACT ADMINISTRATION

- 11.1 The Purchaser is the NATO CI Agency (NCI Agency). The Purchaser is the Point of Contact for all Contractual and Technical issues. The Purchaser reserves the right to re-assign this Contract to a representative(s) for administrative purposes, in whole or in part, provided that the Purchaser shall always be responsible for its obligations under the Contract and for actions or lack of actions of its assigned administrator. The Purchaser undertakes to advise the Contractor in writing whenever this right is to be exercised.
- 11.2 The Contractor shall accept Contract modifications only in writing from the Purchaser's Contracting Authority.

- 11.3 All notices and communications between the Contractor and the Purchaser shall be written and conducted in English. Contract modifications only become valid when received in writing from the General Manager, NCI Agency, and/or the NCI Agency Contracting Authority.
- 11.4 Formal letters and communications shall be personally delivered or sent by mail, registered mail, courier or other delivery service, to the official Points of Contact quoted in this Contract. Fax, email or other electronic means may be used to provide an advance copy of a formal letter or notice which shall subsequently be delivered through the formal communications means.
- 11.5 Informal notices and informal communication may be exchanged by any other means, including telephone or email, where the classification of the information permits such mean of communication. All informal communication must be confirmed by a formal letter or other formal communication to be contractually binding.
- 11.6 Any discussion, negotiation with Contractor representatives shall be recorded in minutes which shall be generated and coordinated by the Contractor, and signed by authorised representatives of both Contractor and Purchaser. All minutes are considered to be a summary record of discussions and specific actions to be undertaken by the parties as a result of meetings. If the contents of these minutes fall within the scope of the Contract or specifications, then no amendment action will be initiated by the Purchaser. If, however, it is considered by either party that certain discussions and decisions have taken place at meetings that fall outside the scope of these documents, then this fact shall be recorded at the time and brought to the immediate attention of the Contracting Authority for resolution via amendment to the Contract.
- 11.7 All notices and communication shall be effective upon receipt.
- 11.8 Official Points of Contact (POC) are:

Purchaser	Contractor
NCI AGENCY Acquisition Directorate Boulevard Leopold III B-1110 Brussels Belgium	[To Be Determined]
<u>For contractual matters:</u> Attn: Title: Tel: E-mail:	<u>For contractual matters:</u> Attn: Title: Tel: E-mail:

<p><u>For technical/ project management matters:</u></p> <p>Attn: Title: Tel: E-mail:</p>	<p><u>For technical/ project management matters:</u></p> <p>Attn: Title: Tel: E-mail:</p>
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- 11.9 The Contractor shall be aware of the possible need to work closely with and participate in meetings and reviews to be held jointly with third parties who perform work which contributes to, or is strongly related to, work conducted under this Project, mainly constituted by, but not limited to, the Contractor performing work under the CO-115415-DSGT contract and other related NATO Contractors.
- 11.10 The Contractor shall have no rights to raise claims, ask for delays or interrupt the performance of the Contract on the basis of, or in connection with, his responsibilities to work/ co-ordinate with third parties running work on or related to this Project.
- 11.11 The above described effort is already included in the Total Firm Fixed price of this Contract and the Contractor shall have no recourse for additional costs or delays in the performance of this Contract on the basis of the above described effort.
- 11.12 The Purchaser reserves the right to make technical documentation available to third parties.

12 TECHNICAL DIRECTION

- 12.1 The Contract will be administered by the Purchaser in accordance with the Article 9 of these Contract Special Provisions.
- 12.2 Contractor’s personnel working on this Contract shall perform the effort within the general scope of work identified in the Statement of Work. This effort will be directed on a more detailed level by the Purchaser’s Project Manager identified under Article 9.8, who will provide detailed tasking and instruction on how to proceed.
- 12.3 The Purchaser reserves the right to assign a Technical Representative(s) who will monitor work in progress and provide Contractor personnel with instructions and guidance (within the general scope of work) in performance of their duties and working schedule.

- 12.4 Neither the Purchaser’s Project Manager, nor the Technical Representative(s) have the authority to change the terms of the Contract or to increase the overall cost, duration or level of effort of the Contract.
- 12.5 In case the Contractor has reasons to believe that any technical direction received from the Project Manager or the Technical Representative(s) constitutes a change to the terms, conditions and/or specifications of the Contract, the Contractor shall immediately inform in writing the NCI Agency Contracting Authority, who will either confirm or revoke such direction within two weeks after notification by the Contractor.
- 12.6 If such direction is confirmed as a change, this change will be formalised by written amendment to the Contract pursuant to Clause 16, “Changes”, of the NCI Agency Contract General Provisions.
- 12.7 Failure of the Contractor to notify the NCI Agency Contracting Authority of the direction constituting change of the Contract, within the timelines specified in Clause 16.9 of the NCI Agency Contract General Provisions, will result in a waiver of any claims pursuant to such change.
- 12.8 All changes to the service management documentation, including the implementation schedules, agreed between the parties shall bear a formal version number and a date from which the change applies.
- 12.9 Notwithstanding the above, service management documentation, particularly any implementation schedule such as the Project Implementation Plan (PIP) shall not affect the original delivery dates as specified in the Schedule of Supplies and Services, nor waive the associated Liquidated Damages.
- 12.10 The Purchaser will bear no liability for changes to the Contract which are not expressly authorized by the Contracting Authority in writing.
- 12.11 Similarly the Purchaser shall not be liable for costs incurred by the Contractor resulting from changes in Contract performance authorized by other than the Contracting Authority.

13 KEY PERSONNEL

13.1 The individuals listed below are considered to be key to the performance of this Contract and may not be replaced by the Contractor with substitute personnel without the prior written approval of the Purchaser and are subject to the provisions of this Article as set forth in the following paragraphs. The Key Personnel are as follows:

POSITION	NAME
Project Manager	

Technical Lead	
Test Director	
IPS Manager	
Training Manager	
Configuration Manager	

- 13.2 The Contractor’s key personnel assigned to the present Contract shall remain working on the Contract for as long as required by the terms of the present Contract. However, in the event where the Contractor has no control over the individual’s non-availability (e.g., resignation, sickness, incapacity, etc.), the Contractor shall notify the Purchaser of the prospective vacancy with no delay, and must nominate, with no additional costs for the Purchaser, a substitute(s) of equivalent or higher qualification and experience within **20 working days** of the date at which the Contractor has knowledge of the loss of service of such key personnel. The replacement personnel shall be made available for the Contract upon Purchaser acceptance of the proposed substitute.
- 13.3 The Purchaser may consider any application raised by the Contractor for changes in the key personnel, provided that all the following conditions are met:
- i. The Contractor shall guarantee an overlap/handover period of minimum two (2) weeks at no additional cost to the Purchaser,
 - ii. The CV of the replacement personnel is provided, which allows the Purchaser to assess whether the proposed substitution meets the conditions related to the skill and experience requirements of the key personnel identified in the Statement of Work,
 - iii. The corporate knowledge of the team is preserved after the replacement.
- 13.4 The Purchaser will confirm any consent given to a substitution in writing through an Amendment to the Contract stating the effective date of change of personnel, and only such written consent shall be deemed as valid evidence of Purchaser consent.
- 13.5 The Purchaser has the right to refuse any proposed substitution if not meeting the qualifications and request the Contractor to offer another qualified individual in lieu thereof.
- 13.6 The Purchaser reserves the right to reject a Contractor’s staff member after acceptance of a Contractor’s staff member on the basis of his/her CV if the individual is not providing the required level of support. The Purchaser will inform the Contractor in writing in case such a decision is taken and the Contractor shall propose and make another staff member available within three working days after the written notification, at no additional costs to the Purchaser.

- 13.7 Delays by the Contractor in replacements exceeding two weeks and causing a lower level of Contractor effort and/or performance will be penalised in accordance with Clause 38 of Contract General Provisions.
- 13.8 In addition to the Article 13.6 above, if the Contractor is unable to nominate and/or replace the lost personnel within the timeframe mentioned in Article 13.2 above, the Purchaser may conclude that the loss of the Key Personnel endangers progress under the Contract to the extent that the Purchaser may resort to the Clause 39 – “Termination for Default” of the Contract General Provisions for redress of the situation.

14 INDEPENDENT CONTRACTOR

- 14.1 The Personnel provided by the Contractor are at all times employees of the Contractor and not the Purchaser. In no case shall Contractor personnel act on behalf of or as an agent for NATO or any of its bodies. In no way shall the Contractor personnel claim directly or indirectly to represent NATO in an official capacity or claim themselves to be NATO employees.
- 14.2 The Purchaser shall not be responsible for securing work permits, visas, leases nor tax declarations, driving permits, etc., with national or local authorities.
- 14.3 Contractors personnel employed under this Contract are not eligible for any diplomatic privileges or for NATO employee benefits.
- 14.4 The Contractor is responsible for providing the necessary insurance for his personnel and equipment as needed in the area of operations and for performing the Contract, without any cost to the Purchaser.
- 14.5 The Contractor shall inform his employees under this Contract of the terms of the Contract and the conditions of the working environment.

15 SECURITY

- 15.1 This Article augments Clause 11 of the Contract General Provisions.
- 15.2 The security classification of this Contract is “NATO UNCLASSIFIED”.
- 15.3 In the performance of all works under this Contract it shall be the Contractor's responsibility to ascertain and comply with all applicable NATO security regulations as implemented by the Purchaser and by the local authorities.
- 15.4 Contractor and /or Subcontractor personnel employed under this Contract that will require access to locations, such as sites and headquarters, where classified material and information up to and including “NATO SECRET” are handled shall be required to have a NATO security clearance up to this level. 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.

- 15.5 All NATO CLASSIFIED material entrusted to the Contractor shall be handled and safeguarded in accordance with applicable security regulations.
- 15.6 The Contractor will be required to handle and store classified material to the level of “NATO SECRET”.
- 15.7 It shall be the Contractor’s responsibility to obtain the appropriate personnel and facility clearances to the levels stated in the preceding paragraphs and to have such clearances confirmed to the Purchaser by the relevant National security authority for the duration of the Contract in its entirety.
- 15.8 Failure to obtain or maintain the required level of security for Contractor personnel and facilities for the period of performance of this Contract shall not be grounds for any delay in the scheduled performance of this Contract and may be grounds for termination under Clause 39 (Termination for Default) of the Contract General Provisions.
- 15.9 The Contractor shall note that there are restrictions regarding the carriage and use of electronic device (e.g. laptops) in Purchaser secured locations. The Contractor shall be responsible for satisfying and obtaining from the appropriate site authorities the necessary clearance to bring any such equipment into the facility.

16 ACCEPTANCE OF DOCUMENTATION AND SERVICE

- 16.1 This Article augments Clauses 21 and 22 of the Contract General Provisions.
- 16.2 Acceptance of Documentation delivered under this Contract will be made according to Clause 22 – “Inspection and Acceptance of Documentation” of the Contract General Provisions and Contract Statement of Work – Section 3.8
- 16.3 Acceptance of Service delivered under this Contract will be made according to Clause 21 – “Inspection and Acceptance of Work” of the Contract General Provisions and Section 8 of the Statement of Work.
- 16.4 The acceptance by the Purchaser of the Contractor's design documentation required by this Contract signifies that the documents delivered appear logical and consistent. The acceptance does not constitute an endorsement or approval of the design by the Purchaser and does not relieve the Contractor of the obligation to meet the performance requirements of this Contract in the event that the design eventually proves to be non-compliant in site testing and follow-on service delivery.
- 16.5 The Contractor shall maintain all reports for the previous month on the secure web-application.

- 16.6 All deliverables will be inspected for content, completeness, accuracy, and conformance to purchase order requirements by the Purchaser. Acceptance will be made in writing by the Purchaser.
- 16.7 The basis for acceptance shall be compliant with the requirements set forth in the Statement of Work, the terms and conditions of the Contract. Deliverable items rejected shall be corrected in accordance with the direction found in the Contract.
- 16.8 Reports, documents and narrative type deliverables will be accepted when all discrepancies, errors or other deficiencies identified in writing by the Purchaser have been corrected.
- 16.9 In the event the Contractor anticipates difficulty in complying with any delivery schedule, the Contractor shall immediately provide written notice to the Contracting Authority. Each notification shall give pertinent details, including the date by which the Contractor expects to make delivery; provided that this data shall be informational only in character and that receipt thereof shall not be construed as a waiver by the Purchaser of any delivery schedule, or any rights or remedies provided by law or under the contract.
- 16.10 Under the terms of this Contract, the Contractor shall make available the completed MB-DSGT systems to the Purchaser for Factory Acceptance Tests (FAT), System Acceptance Tests (SAT), and Provisional System Acceptance (PSA) at the times specified in the Schedule of Supplies and Services and in accordance with the SOW, together with the related documentation. In order to be considered compliant with the terms and conditions of this contract, the Contractor shall present the MB-DSGT systems in an operable condition. The term 'operable condition' under this contract means that there are no defects or incomplete works which will hinder the normal operations of the Staff. All installed hardware and software shall be in proper working order and works shall have been satisfactorily completed so that access and ability of the working spaces are not jeopardised and the environmental support elements are in working order.
- 16.11 Unless otherwise specifically provided for in the Contract, all equipment, materials, and supplies incorporated in the work covered by this contract are to be new and of the most suitable grade of their respective kinds for the purpose, notwithstanding the requirements for testing, inspection and performance as required under this contract.
- 16.12 The Purchaser has the right to reject non-conforming deliverables. The Purchaser, in addition to any other rights or remedies provided by law, or under the provisions of this Contract, shall have the right to require the Contractor at no increase in contract price, to correct or replace non-conforming work, and in accordance with a reasonable delivery schedule as may be agreed by the Purchaser and the Contractor following the receipt of the Purchaser's notice of defects or non-conformance.

17 INVOICES AND PAYMENT

- 17.1 This Article augments Clause 25 of the Contract General Provisions.
- 17.2 Following Purchaser acceptance, in writing, payment for supplies and services furnished shall be made in the currency specified for the relevant portion of the Contract.
- 17.3 The term of the Contract may not be exceeded without prior approval of the Purchaser. In no case will the Purchaser make payment above the total of the corresponding CLINs.
- 17.4 All invoices must reference the following information. The Contractor shall render all invoices in a manner, which shall provide a clear reference to the Contract. Invoices in respect of any service and/or deliverable shall be prepared and submitted as specified hereafter and shall contain:
- a) Contract number: **CO-115415-DSGT**;
 - b) Contract Amendment number (if any);
 - c) Purchase Order number specified in the Contract or Amendment Signature Sheet (TBD at Contract Award);
 - d) The identification of the performance rendered in terms of Contract Line Item Number (CLIN) as they are defined in the priced Schedule of Supplies and Services;
 - e) Number of units, price per unit, currency;
 - f) Bank account details for international wire transfers (SWIFT, BIC, IBAN);
 - g) Payment conditions in line with the Contract (Article 14.16 below);
 - h) The certificate below that shall be signed by a duly authorised company official on the designated original:

*“I certify that the above invoice is true and correct, that the delivery of the above described items has been duly effected and/or that the above mentioned services have been rendered and the payment therefore has not been received. Order placed for official use. Exemption from VAT Article 42,§3&3*of VAT Code for Belgium or Article 151, §1b of the Council Directive 2006/112/EC dd. 28 November 2006 on intra-community purchases and/or services.”*
- 17.5 CLINs will be paid as below based on Purchaser milestone approval in writing.
- 17.6 Evidence of the acceptance by the Purchaser shall be attached to all invoices.

- 17.7 The Contractor shall be entitled to submit invoices in accordance with the following **Payment Milestones Schedule** at **Schedule B of the SSS** :
- 17.8 Invoices referencing “**CO-115415-DSGT/ PO** [...]” shall be submitted in electronic format only to the following POCs:
- a) accountspayable@ncia.nato.int ;
 - b) Contracting Authority under Article 17.7.
- 17.9 No payment will be made if CLIN items agreed for delivery before milestones are not complete as described in bidding sheets, SSS and SOW.
- 17.10 No payment shall be made with respect to undelivered supplies; works not performed, services not rendered and/or incorrectly submitted invoices.
- 17.11 No payment will be made for additional items delivered that are not specified in the contractual document.
- 17.12 The invoice amount shall be exclusive of VAT and exclusive of all Taxes and Duties as per Clause 19 “Taxes and Duties” of the Contract General Provisions.
- 17.13 Payments for services and deliverables shall be made in the currency stated by the Contractor for the relevant Contract Line Item.
- 17.14 The Purchaser is released from paying any interest resulting from any reason whatsoever.
- 17.15 Unless otherwise specified, the Contractor shall prepare and submit its invoices solely by electronic means (without paper submission). Contractor’s invoices submitted by electronic means shall be in a static, non-modifiable format (such as PDF, other). The Contractor shall ensure the accuracy, authenticity of the origin and legibility of any invoice submitted by electronic means.
- 17.16 NCI Agency will make payment within forty five (45) days of receipt by the NCI Agency of a properly prepared and documented invoice.

18 CONTRACTOR COTS RESPONSIBILITY

- 18.1 When software version numbers are specified in the Schedule of Supplies and Services, the Purchaser must approve in writing any change in the versions that will be delivered or utilised under subject contract.
- 18.2 The Contractor shall monitor changes and/or upgrades to Commercial Off The Shelf (COTS) software to be delivered or utilised under subject contract.
- 18.3 The Contractor shall notify the Purchaser of any proposed changes in the commercial off the shelf software to be delivered or utilised. Such notification shall provide an assessment of the changes and the impact to any other items to be delivered under this contract.

- 18.4 When hardware references (part number or brand reference, model) are specified in the Statement of Work or Contractor's proposal, the Purchaser must approve in writing any change that will be delivered or utilized under subject contract.
- 18.5 As changes in technology occur, the Contractor will propose substitution of new products/items for inclusion in this Contract. The proposed items should provide at least equivalent performance with lower prices and/or life-cycle support costs, or enhanced performance without a price or cost increase.
- 18.6 The contractor will provide price and performance data to support an improvement in performance and/or a reduction in price and/or life-cycle support costs. If necessary for evaluation by the Purchaser, the Contractor shall provide a demonstration of the proposed items. Should the Purchaser decide that the proposed item(s) should be included in the contract, an equitable price adjustment will be negotiated, and the proposed item(s) shall be added to the contract by bilateral modification under the authority of this clause.

19 LIQUIDATED DAMAGES

- 19.1 This Article augments Clause 38 of the Contract General Provisions.
- 19.2 If the Contractor fails to:
- 19.2.1 meet the delivery schedule of the Deliverables or any specified major performance milestones or required performance dates specified in the Schedule of Supplies and Services to this Contract, or any extension thereof, or
 - 19.2.2 deliver and obtain acceptance of the Deliverables or to acceptably perform the services as specified in the Schedule of Supplies and Services to this Contract, the actual damage to the Purchaser for the delay will be difficult or impossible to determine. Therefore, in lieu of actual damages the Contractor shall pay to the Purchaser, for each day of delinquency in achieving the deadline or milestone, fixed and agreed **liquidated damages of 1% (one per cent) per week** of the associated payment set forth in the schedule of payments provided in Schedule B of the SSS.
- 19.3 In addition to the liquidated damages, the Purchaser shall have the possibility of terminating this Contract in whole or in part, as provided in Clause 39 (Termination for Default) of the Contract General Provisions. In the event of such termination, the Contractor shall be liable to pay the excess costs provided in Clause 39.5 (Termination for Default) of the Contract General Provisions.
- 19.4 The Contractor shall not be charged with liquidated damages when the delay arises out of causes beyond the control and without the fault or negligence of the Contractor as defined in Clause 39.6 (Termination for Default) of the Contract General Provisions. In such event, subject to the provisions of Clause

41 (Disputes) of the Contract General Provisions, the Purchaser shall ascertain the facts and extent of the delay and shall extend the time for performance of the Contract when in his judgement the findings of the fact justify an extension.

- 19.5 Liquidated damages shall be payable to the Purchaser from the first day of delinquency and shall accrue at the afore-mentioned rate to **15% of the value of each line item individually** and an aggregate sum of all delinquent items **not to exceed 15% of the value of the total Contract**. These liquidated damages shall accrue automatically and without any further notice being required.
- 19.6 The amount of Liquidated Damages and Penalties due by the Contractor shall be recovered by the Purchaser in the following order of priority:
- a) By deducting such damages from the amounts due to the Contractor against the Contractor's invoices.
 - b) By proceeding against any surety or deducting from the Performance Guarantee if any.
 - c) By reclaiming such damages through appropriate legal remedies.

20 TITLE AND RISK OF LOSS

- 20.1 In accordance with the NCIA General Provisions Clause 23 (Use and Possession Prior to Acceptance) and Clause 24 (Ownership and Title), the Title and Risk of Loss to all delivered/installed equipment, software and documentation shall transfer to and vest with the Purchaser, upon Provisional System Acceptance (PSA) of each delivered/installed MB-DSGT as defined in SOW Section 4.16 and Section 8 except where such software is otherwise under license to the Purchaser. In such cases, the software license shall be transferred to the Purchaser.

21 WARRANTY

- 21.1 Warranty shall start after each PSA, as indicated in the SOW, and shall have a duration of a minimum of twelve (12) months until FSA for all hardware and software and for all services to be provided as part of this contract.
- 21.2 Notwithstanding inspection and acceptance by the Purchaser or its appointed agents of supplies furnished under the contract or any provision of this contract concerning the conclusiveness thereof, the Contractor warrants for the total duration of the above referred period and covering all items of hardware and software, that:
- a) all deliverables furnished under this contract shall be free from defect and will conform with the specifications and all other requirements of this Contract; and,
 - b) the system will, under normal conditions, perform without errors which make it unusable; and

- c) the preservation, packaging, packing and marking and the preparation for and method of, shipment of such supplies will conform to the requirements of this contract.
- 21.3 The word “defect” means any condition or characteristic, which is or becomes a variance to the performance specifications and to the intended function of the supplies. The defects include, but are not limited to, design defects, workmanship defects, material defects and defects that result from normal wear and tear. The only defect, which is excluded, is a Purchaser-caused defect as a result of wilful damage or gross negligence and the burden of proof of such wilful damage or gross negligence will rest with the Contractor.
- 21.4 The Purchaser will inform the Contractor in writing of any defect within seven calendar days after its discovery and the circumstances of its discovery. The Contractor shall respond to a defect notification within one working day, by engaging with the Purchasers personnel to identify the cause of the defect and to agree a resolution approach. The resolution of defects remains the Contractors responsibility within the warranty. The Contractor shall resolve all defects within seven (7) calendar days of their first being reported.
- 21.5 The Contractor shall stipulate the address to which the Purchaser shall deliver equipment and material returned to the Contractor in accordance with the provisions of this clause. Transportation and handling charges for items returned under warranty claim to the Contractor will be the responsibility of the Purchaser, as well as responsibility for such supplies, i.e. damage and loss that may occur during transportation under warranty.
- 21.6 The Contractor shall, at his option, repair, adjust or replace defective equipment and restore to the Purchaser equipment, which functions in accordance with the requirements of the Contract.
- 21.7 In the event of the Contractor’s failure to repair or replace failed equipment within five (5) days of its pickup or of the arrival of Contractor repair personnel on the installation site, the Purchaser will have the right, at his discretion, and having given the Contractor due notice, to:
- a) remedy, or have remedied, the defective or non-conforming supplies, in both cases at the Contractor’s expenses;
 - b) equitably reduce the contract price; and/or
 - c) terminate for default that portion of the Contract relating to the defective work.
- 21.8 Notwithstanding the provision of above article A, the warranty period shall be suspended for the length of time necessary to carry out repair or replacement.
- 21.9 This right will be exercised although other contractual obligations remain in force. In the event that it is later determined that such supplies were found not to be defective or non-conforming within the provision of this clause, an equitable

adjustment will be made. Failure to reach such an equitable adjustment will be considered a dispute under the Contract and subject to resolution in accordance with the provision of this Contract entitled “Disputes and Arbitration”.

22 SUPPLEMENTAL AGREEMENT(S), DOCUMENTS AND PERMISSIONS

22.1 The Contractor has submitted all relevant draft supplemental agreement(s), documents and permissions prior to Contract award, the execution of which by the Purchaser is/are required by national law or regulation. If any supplemental agreements, documents and permissions are introduced after Contract award, and it is determined that the Contractor failed to disclose the requirement for the execution of such agreement from the Purchaser prior to Contract signature, the Purchaser may terminate this contract for default in accordance with Clause 39 – “Termination for Default” of the Contract General Conditions.

22.2 Supplemental agreement(s), documents and permissions, the execution of which by the Purchaser is/are required by national law or regulation and that have been identified by the Contractor prior to the signature of this Contract, but have not yet been finalised and issued by the appropriate governmental authority, are subject to review by the Purchaser. If such supplemental agreement(s), documents and permissions are contrary to cardinal conditions of the signed Contract between the Parties, and the Purchaser and the appropriate governmental authority cannot reach a mutual satisfactory resolution of the contradictions, the Purchaser reserves the right to terminate this Contract and the Parties agree that in such case the Parties mutually release each other from claim for damages and costs of any kind, and any payments received by the Contractor from the Purchaser will be refunded to the Purchaser by the Contractor. For the purpose of this Contract the following National mandatory Supplemental Agreements are identified:

Type of Agreement	National Authority of Reference	Subject

23 COMPREHENSION OF CONTRACT AND SPECIFICATIONS

23.1 The Contractor warrants that he has read, understood and agreed to each and all terms, clauses, specifications (including drawings) and conditions specified in the Contract and that this signature of the Contract is an acceptance, without reservations, of the said Contract terms within their normal and common meaning.

23.2 The specifications set forth the performance requirements for the Contractor’s proposed work as called for under this Contract. Accordingly, notwithstanding any conflict or inconsistency which hereafter may be found between achievement of the aforesaid performance requirements and adherence to the Contractor’s proposed design for the work, the Contractor hereby warrants that

the work to be delivered will meet or exceed the availability and performance requirements of the said specifications.

23.3 The Contractor hereby acknowledges that he has no right to assert against the Purchaser, its officers, agents or employees, any claims or demands with respect to the aforesaid specifications as are in effect on the date of award of this Contract:

23.3.1 based upon impossibility of performance, defective, inaccurate, impracticable, insufficient or invalid specifications, implied warranties of suitability of such specifications, or

23.3.2 otherwise derived from the aforesaid specifications,

23.3.3 and hereby waives any claims or demands so based or derived as might otherwise arise.

23.4 Notwithstanding the “Changes” Clause or any other Clause of the Contract, the Contractor hereby agrees that no changes to the aforesaid specifications which may be necessary to permit achievement of the performance requirements specified herein for the Contractor’s proposed work shall entitle the Contractor either to any increase in the fixed price as set forth in this Contract or to any extension of the delivery times for the work beyond the Period of Performance in the Schedule of Supplies and Services.

24 RIGHTS IN TECHNICAL DATA

24.1 For the purpose of this clause, “technical data” is defined to mean all recorded information of a technical nature to support maintain or operate the services being purchased under this Contract. It is to include, but is not limited to, technical literature such as text in manuals, drawings, design documents, equipment instructions, illustrations, schematics or wiring diagrams, test procedures, parts lists, computer software etc.

24.2 The Contractor hereby grants to NATO the unrestricted rights without further payment to use, duplicate or disclose, in whole or in part, any technical data, resulting directly from the performance of this Contract for NATO purposes.

24.3 The Contractor shall assume all liability and indemnify the Purchaser, its officers, agents and employees against liability, including costs for the infringement of any patents or copyright in force in any countries arising out of the manufacture, services performed or delivery of supplies, or out of the use or disposal by or for the account of the Purchaser of such supplies. The Contractor shall be responsible for obtaining any patent or copyright licences necessary for the performance of this Contract and for making all other arrangements required to indemnify the Purchaser from any liability for patent or copyright infringement in said countries.

25 CARE AND DILIGENCE OF PROPERTY - RISK OF LOSS

- 25.1 The Contractor shall use reasonable care to avoid damaging building, equipment, and vegetation (such as trees, shrub and grass) on the work site.
- 25.2 If the Contractor damages any such building or equipment, it shall repair the damage as directed by the Purchaser and at no expenses to the Purchaser. If it fails or refuses to make such repair or replacement, the Contractor shall be liable for the cost thereof, which may be deducted from the Contract price.
- 25.3 The Purchaser shall exercise due care and diligence for Contractor's and Purchaser's equipment, tools and materials at each Node (site) supplied and/or used for the performance of this Contract. Notwithstanding anything to the contrary herein contained in this Contract, the Purchaser will not assume any liability for damages occurring to or occasioned by said equipment, tools and materials except for gross negligence or wilful misconduct of the Purchaser or his servants, agents or subcontractors.

26 PERFORMANCE GUARANTEE

- 26.1 This Article replaces the Contract General Provisions Clause 8 – “Performance Guarantee” sub-clauses 8.1, 8.4 and 8.5.
- 26.2 As a guarantee of performance under the Contract, the Contractor shall deposit with the Purchaser within thirty (30) calendar days from the Effective Date of Contract a bank guarantee (the “Performance Guarantee”) denominated in the currency of the Contract, to the value of ten per cent (10%) of the total Contract price specified in the Contract Signature Sheet and Article 4 above. In case the Part I Schedule of Supplies and Services Option to extend the Period of Performance is exercised under the provision 6.3 above, the value of the Performance Guarantee shall be adjusted to ten per cent (10%) of the Total Value of the Contract for the Optional Years.
- 26.3 The standby letter of credit shall be issued by a financial institution listed in **Annex A of the Contract Special Provisions** either on its own behalf or as a confirmation of the Standby Letter of Credit issued by a different bank not listed in Annex A of the Contract Special Provisions 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.
- 26.4 The Contractor shall request in writing relief from the Performance Guarantee upon expiration of the warranty period of the base contract as specified under Article 6 above, and such relief may be granted by the Purchaser.
- 26.5 The Purchaser shall not bear any liability related to financial guarantees, which the Contractor is required to provide under this Contract.

27 LANGUAGE OF WORK

- 27.1 The working language of the Project Team is English and the associated technical documents are delivered in English. All Contractor's personnel engaged in this project shall have a thorough knowledge of the English language.
- 27.2 Failure to satisfy this requirement may be the basis for Purchaser's request of change of personnel.

28 SUB-CONTRACTS

- 28.1 This Article augments Clause 10 of the Contract General Provisions.
- 28.2 The Contractor warrants the following:
- 28.2.1 that it and its Sub-Contractors have been duly authorised to provide the required services and do business with NATO;
 - 28.2.2 that it and its Sub-Contractors have obtained or shall obtain all necessary licenses and permits required in connection with the Contract;
 - 28.2.3 that it and its Sub-Contractors shall fully comply with all the laws, decrees, labour standards and regulations that are applicable during the performance of the Contract;
 - 28.2.4 that no claim for additional moneys with respect to any authorisations to perform shall be made upon NATO;
 - 28.2.5 that the Contractor has flown down to the subcontracts the prime Contract provisions deemed necessary to meet the requirements of the Contract (eg security, liabilities, termination terms etc).

29 OPTIMISATION

- 29.1 The Contractor is encouraged to examine methods and technology that may increase efficient operation and management of the system(s) on which the required services are provided to the Purchaser, thus reducing operating and manpower costs and the overall cost to the Purchaser.
- 29.2 The Contractor may, at any time during the Period of Performance, introduce Engineering Change Proposals (ECPs) offering innovations and/or technology insertion with a view towards reducing the overall cost to the Purchaser.
- 29.3 Any such ECP submitted shall cite this Clause as the basis of submission and provide the following information:
- 29.3.1 A detailed description of the technical changes proposed, the advantages, both long and short term, and an analysis of the risks of implementation;

- 29.3.2 A full analysis of the prospective savings to be achieved in both equipment and manpower, including, as appropriate, utility and fuel consumption and NATO manpower, travel, etc.;
- 29.3.3 A full impact statement of changes that the Purchaser would be required to make, if any, to its operational structure and management procedures;
- 29.3.4 A fully detailed proposal of any capital investment necessary to achieve the savings;
- 29.3.5 A schedule of how the changes would be implemented with minimal negative impact to on-going performance and operations.

30 RIGHT OF ACCESS, EXAMINATION OF RECORDS

- 30.1 The Notice of Authorized Disclosure of Information for Mandated NATO Third Party Audits by Resource Committees
- 30.2 Definitions. As used in this clause
 - 30.2.1 **Resource Committees** means committees under the North Atlantic Council (NAC) that are responsible, within the broad policy guidance provided by the Resource Policy and Planning Board (RPPB) on matters of resource allocation, for the implementation of the NATO Security Investment Programme (NSIP) or Budget/Civil budgets.
 - 30.2.2 **Mandated Third Party Audits** means audits mandated by a resource committee.
 - 30.2.3 **Third Party Auditor** means an independent, external audit body for NATO such as the International Board of Auditors for NATO (IBAN) or an appointed private contractor (including its experts, technical consultants, subcontractors, and suppliers) providing audit support under a Resource Committee Appointment based on an agreed mandate.
 - 30.2.4 **Sensitive information** means information of a commercial, financial, technical, proprietary, or privileged nature. The term does not include information that is lawfully, publicly available without restriction.
- 30.3 The Purchaser may disclose to a mandated third party auditor, for the sole purpose of audit support activities, any information, including sensitive information, received –
 - 30.3.1 Within or in connection with a bid, quotation or offer; or
 - 30.3.2 In the performance of or in connection with a contract.
- 30.4 **Flowdown.** Include the substance of this clause, including this paragraph (30.4), in all subcontracts, including subcontracts for commercial items.

31 FORCE MAJEURE

- 31.1 **“Force Majeure”** means the occurrence of an event or circumstance that prevents a Party (the “Affected Party”) from performing one or more of its contractual obligations under the Contract, provided that: (i) it renders performance impossible; (ii) it is beyond the Affected Party’s reasonable control and without the Affected Party’s cause, fault or negligence; (iii) by its nature it could not have been reasonably foreseen at the time of conclusion of the Contract; and (iv) the effects of it could not reasonably have been avoided or overcome by the Affected Party.
- 31.2 Examples of Force Majeure, provided conditions (i)-(iv) of paragraph [31.1] are all fulfilled, include:
- 31.2.1 war (whether declared or not), hostilities, invasion, act of foreign enemies, extensive military mobilisation;
 - 31.2.2 civil war, riot, rebellion and revolution, usurped power, insurrection, act of terrorism, sabotage or piracy;
 - 31.2.3 currency and trade restriction, embargo, sanction;
 - 31.2.4 act of authority whether lawful or unlawful, compliance with any law or governmental order, expropriation, seizure of works, requisition, nationalisation;
 - 31.2.5 plague, epidemic, natural disaster or extreme natural event;
 - 31.2.6 explosion, fire, destruction of equipment, prolonged break-down of transport, telecommunication, information system or energy; and
 - 31.2.7 general labour disturbance such as boycott, strike and lock-out, go-slow, occupation of factories and premises.
- 31.3 The Affected Party must give the other party to the Contract (the **“Other Party”**) written notice without delay detailing the occurrence and its expected duration. The Other Party shall within a reasonable time respond, stating whether it accepts or rejects the occurrence as Force Majeure.
- 31.4 If the Other Party accepts the occurrence as Force Majeure, the Contract shall remain in force but the Parties will be relieved from performance of their obligations (including payment) under Contract, from the date at which the Other Party received written notice, for so long as the effects of Force Majeure continue or for ninety (90) days, whichever is the shorter, provided that:
- 31.4.1 the Affected Party makes all reasonable efforts to limit the effects of Force Majeure upon performance and to avoid or overcome the effects of Force Majeure;
 - 31.4.2 the suspension of performance is of no greater scope than is necessitated by Force Majeure;
 - 31.4.3 the Affected Party continues to furnish weekly updates by email while the effects of Force Majeure continue detailing reasonable efforts made in

accordance with [31.4.1], and notifies the Other Party immediately when the effects of Force Majeure are avoided or overcome, or cease, and resumes performance immediately thereafter.

- 31.5 Neither Party shall be in breach of the Contract nor liable for delay in performing, or for failing to perform, its obligations under the Contract, due to Force Majeure.
- 31.6 Unless otherwise agreed by the Parties, if Force Majeure continues for more than ninety (90) days, the Parties may agree: (a) to a revised delivery schedule at no cost; (b) to a reduction of scope terminating part of the contract at no cost; or (c) to terminate the whole of the Contract at no cost.

32 MERGERS, ACQUISITIONS, NOVATIONS, AND CHANGE-OF-NAME AGREEMENTS

- 32.1 If a Contractor merges, is acquired, or recognizes a successor in interest to the Purchaser contracts when the Contractor assets are transferred; or, recognizes a change in a Contractor's name; or, executes novation agreements and change-of-name agreements by someone else other than the Contracting Authority, the Contractor must notify the Contracting Authority and provide a copy of the novation or other any other agreement that changes the status of the Contractor. Any successor must be in full compliance with all terms and conditions of this contract.

33 RELEASE OF INFORMATION

- 33.1 This Article augments Clause 12 (Release of Information) of the Contract General Provisions.
- 33.2 Under no circumstances shall the Contractor, subcontractor, teaming partner, or anyone acting on behalf of the Contractor, refer to the supplies, services, or equipment furnished pursuant to the provisions of this contract in any publicity news release or commercial advertising without first obtaining explicit written consent to do so from the Purchaser.
- 33.3 The Contractor agrees not to refer to awards in commercial advertising in such a manner as to state or imply that the product or service provided is endorsed or preferred by the Purchaser or is considered by the Purchaser to be superior to other products or services.

34 RESPONSIBILITY OF THE CONTRACTOR TO INFORM EMPLOYEES OF WORK ENVIRONMENT

- 34.1 The Contractor shall inform his employees under this Contract of the terms of the Contract and the conditions of the working environment.

34.2 The Purchaser shall not be responsible for securing work permits, lodging, leases nor tax declarations, driving permits, etc., with national or local authorities. Consultants employed under this Contract are not eligible for any diplomatic privileges or NATO employee benefits.

35 NCI AGENCY SUPPLIER CODE OF CONDUCT

- 35.1 The NCI Agency has a Supplier Code of Conduct located at: <https://www.ncia.nato.int/business/do-business-with-us/code-of-conduct.html> and it constitutes part of this contract.
- 35.2 This Supplier Code of Conduct sets standards and practices for suppliers and their subcontractors to adhere to when doing business with the NCI Agency in the areas of labour rights, human rights, data protection, ethical conduct and the environment. It contains fundamental, basic principles that any supplier based in a NATO country should already be operating in compliance with.
- 35.3 In the event of any inconsistency in language, terms or conditions with the Contract General Provisions, the Contract Special Provisions takes precedence. This order of precedence applies to this article only.

ANNEX A**LIST OF ACCEPTABLE BANKS TO ISSUE PERFORMANCE GUARANTEES**

#	*Bank
1	KBC Group
2	Bank of Montreal (BMO)
3	Royal Bank of Canada
4	Scotiabank
5	Danske Bank
6	Citibank Europe
7	BNP Paribas
8	Credit Agricole Group
9	Societe Generale
10	Commerzbank AG
11	Deutsche Bank
12	Intesa
13	UniCredit S.p.A.
14	ING Group
15	Rabobank Group
16	Banco Santander
17	BBVA
18	Barclays PLC
19	HSBC Holdings
20	Standard Chartered Plc
21	Bank of America
22	Wells Fargo

**These Banks are in NATO-member countries.*



NATO Communications and Information Agency
Agence OTAN d'information et de communication

IFB-CO-115415-DSGT

**PROVIDE MULTI-BAND DEPLOYABLE SATELLITE GROUND TERMINALS
(MB-DSGT) POOL**

BOOK II

PART IV

STATEMENT OF WORK (SOW)

Annex A – System Requirements Specification (SRS)

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1 INTRODUCTION

- [1] This System Requirements Specification (SRS) document details the requirements, characteristics and functionalities of a multi band (X and military Ka) Deployable Satellite Ground Terminal (DSGT) further referred to as MB-DSGT.
- [2] The MB-DSGT will support the provision of :
 - 1) NATO forces Beyond Line-of-Sight transmission capability to interconnect NATO deployed Headquarters;
 - 2) A reach-back transmission capability to the Static Headquarters.
- [3] The main purpose of the MB-DSGT is, jointly with third party baseband and modem equipment referred to as Deployable Baseband Augmentation Component (DBAC) provided as Purchaser Furnished Property (PFP), to interconnect Deployable CIS (DCIS) points of presence and the NATO infrastructure networks via military satellite communications in X and Ka band.

1.1 Employment Scenarios

- [4] There are 5 different scenarios and system configurations where the MB-DSGT will be deployed.
- [5] Figure 1-1 shows the first configuration of MB-DSGT with DBAC (providing baseband capability, including modem and remote control & monitoring) supporting DCIS as a standalone terminal:



Figure 1-1 MB-DSGT Employment Scenario 1

- [6] Figure 1-2 below shows the second configuration of MB-DSGT with DBAC for RF and baseband capacity augmentation of the TSGT:

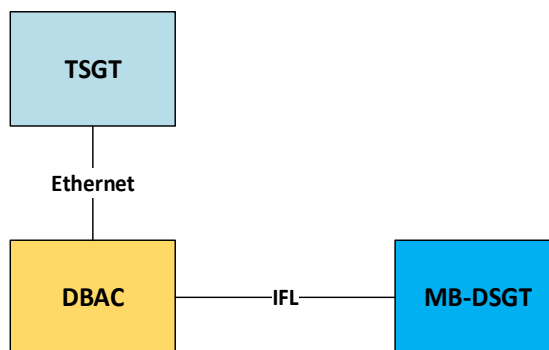


Figure 1-2 MB-DSGT Employment Scenario 2

- [7] Figure 1-3 below shows the third configuration of MB-DSGT without DBAC for RF capacity augmentation of the TSGT:

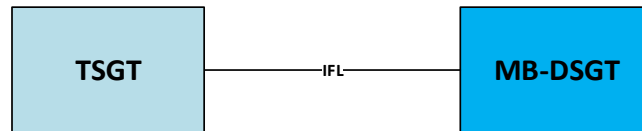


Figure 1-3 MB-DSGT Employment Scenario 3

- [8] Figure 1-4 shows the fourth configuration of two MB-DSGTs without DBAC for RF capacity augmentation of the TSGT:

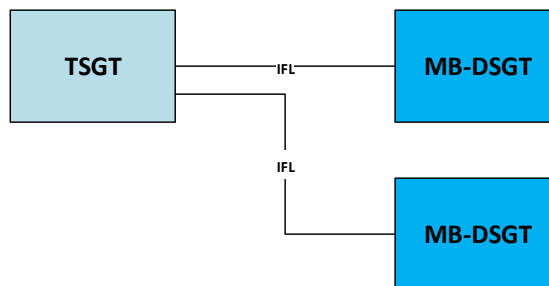


Figure 1-4 MB-DSGT Employment Scenario 4

- [9] Figure 1-5 shows the fifth configuration of MB-DSGTs with the existing legacy modem cases currently in use by existing legacy DSGTs:

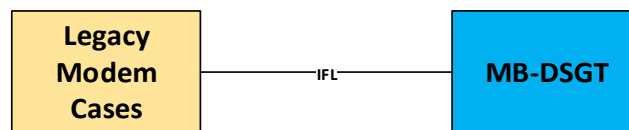


Figure 1-5 MB-DSGT Employment Scenario 5

1.2 Conventions

- [10] Requirements are numbered as SRS-#. Informational text is numbered as [###].
- [11] Statements in numbered lists (i= 1...n) under a SRS-# requirement are to be considered individual requirements under the “shall” statement of the parent requirement. As such, they shall be traced (as SRS-#-i) and be subject to verification individually.
- [12] Information and requirements contained under a “General” heading are applicable to all the elements covered by the corresponding section.
- [13] Requirements are provided at both system-level and subsystem-level. The Contractor shall adhere to these requirements when preparing the Design specification and description.

- [14] Requirements stating a capability to be "implemented" (i.e. "shall implement") shall be understood as requiring the capability to be implemented and configured for use in the delivered system.
- [15] The term "including" as used throughout this Annex is never meant to be limiting - the list that follows is always non-exhaustive.
- [16] Any requirements using the term "target" shall be interpreted as hard constraints to be respected during the design process, with any deviation being subject of agreement by the Purchaser.
- [17] The use of the term "notional" is to be interpreted as guidance only.

2 SYSTEM OVERVIEW

[18] The MB-DSGT has the following basic and supportive functions, to be achieved with the performance stated throughout this document:

- 1) Transmission function
- 2) Reception function
- 3) Monitoring and Control function
- 4) Antenna Control and Tracking function
- 5) Time and Frequency reference provision
- 6) Interfacility over Fiber Link (IFoFL) provision (with PFP such as DBAC, TSGT, legacy modem cases)
- 7) Support to maintenance and testing
- 8) Power Distribution
- 9) Environmental and climatic protection of the equipment

[19] The MB-DSGT in the scope of this project includes the following functional elements, in accordance with the Schedule of Supplies and Services (SSS) of Statement of Work (SOW):

- 1) Antenna subsystem
 - a. Reflector and Feed including Filters, OMT(Ortho Mode Transducer)
 - b. Antenna positioning (pointing and tracking)
 - c. Antenna Control Unit (ACU) and Beacon Receiver
 - d. Mechanics and support structure
- 2) RF components (1 for each frequency band)
 - a. Transmit and receive chain amplifiers
 - b. Up/down frequency converters (could be combined with transmit and receive amplifiers, respectively)
 - c. Other RF components such as (not limited to) splitters, combiners
- 3) Interfacility over Fiber Link (IFoFL), including
 - a. An "outdoor unit", next to the RF part of the MB-DSGT
 - b. An "indoor unit" which will be connected to the PFP housing the modem and baseband equipment and from where the MB-DSGT will be monitored and controlled
- 4) Monitor and Control laptop for local operation of the MB-DSGT (e.g. antenna pointing application, gain setting), maintenance purposes and man-machine interface

- 5) Time and Frequency Reference Subsystem (TFRS), including GPS antenna and its connection
- 6) Power distribution system including UPS and cables
- 7) Ancillaries, transportation boxes, camouflage nets, operation and maintenance tools, weather station, grounding kit, lightning protection
- 8) Weather station shall be rapidly field deployable, compact, capable of monitoring environmental parameters (such as but not limited to wind, air temperature, humidity, pressure, precipitation). It shall withstand the environmental conditions given throughout this document, SRS.

[20] A notional block diagram of the system is given in Figure 2-1.

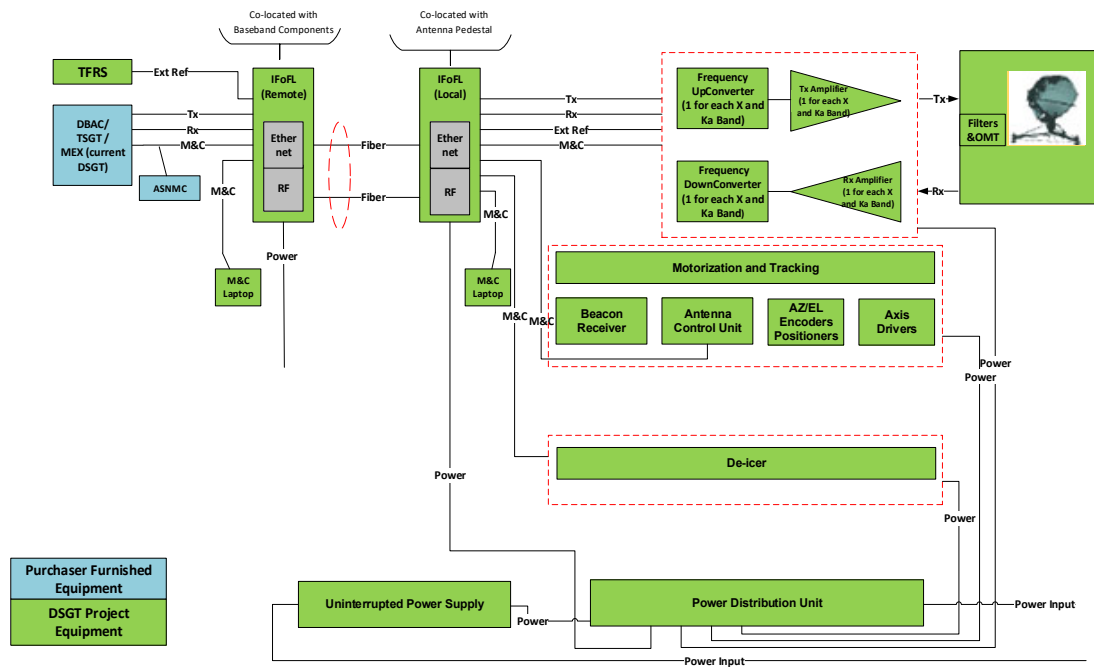


Figure 2-1 Notional Block Diagram of the System

3 REQUIREMENTS

3.1 Functional Requirements

- SRS-1 On the transmit side, the MB-DSGT shall accept a modulated IF (intermediate frequency) signal provided by a third party equipment, provided as PFP, convert it to the specified military bands (X or Ka selectable), amplify it by a power amplifier, and transmit this RF signal to the satellite. The transmission function shall include all of the equipment from the IF input to the RF output.
- SRS-2 On the receive side, the MB-DSGT shall receive the RF signal from the satellite in the specified military bands (X or Ka selectable), amplify it by a low-noise amplifier and convert it to IF signal and provide it to a third party equipment, provided as PFP. The reception function shall include all of the equipment from the RF input to the IF output.
- SRS-3 The transmit and receive functions shall include the carry of the signals exchanged between the modem location and the RF head location through the IFoFL.
- SRS-4 The MB-DSGT shall support multi-carrier operation of satellite communications (protected and non-protected), simultaneously, over different channels (frequencies).
- SRS-5 The MB-DSGT shall be able to operate over X-band satellite channels and over military Ka-band satellite channels. Simultaneous X- and Ka-band operation is not a requirement.

3.1.1 Antenna

- SRS-6 The MB-DSGT shall be capable of simultaneously transmitting RHCP and receiving LHCP in X-band, referred as “normal polarization”.
- SRS-7 The MB-DSGT shall be capable of simultaneously transmitting LHCP and receiving RHCP in X-band, referred as “inverted polarization”.
- SRS-8 It shall be possible for the Operator to switch between normal and inverted polarization in 15 minutes in X-band. Simultaneous normal and inverted polarization is not required.
- SRS-9 The MB-DSGT shall be capable of simultaneously transmitting RHCP and receiving LHCP in military Ka-band, referred as “normal polarization”.
- SRS-10 The MB-DSGT shall be capable of simultaneously transmitting LHCP and receiving RHCP in military Ka-band, referred as “inverted polarization”.
- SRS-11 It shall be possible for the Operator to switch between normal and inverted polarization in 15 minutes in military Ka-band. Simultaneous normal and inverted polarization is not required.

3.1.2 Pointing and Tracking Capability

- SRS-12 The MB-DSGT shall have automatic pointing and tracking capabilities in all frequency bands and with performance parameters referred in environmental conditions defined throughout this document.
- SRS-13 The antenna mount shall support both manual and motorised motion.
- SRS-14 The ACU shall be capable of tracking satellites by monitoring and maximising the level of a received signal, which can be selectable among the satellite beacon (CW or low speed modulated carrier), a similar pseudo-beacon radiated by the satellite, the wide-band signal radiated by the satellite, or the receive signal strength indicator of any modem selected by the operator.
- SRS-15 The antenna pointing shall be adjustable in two-axis with the minimum following parameters:
- 1) Azimuth: AZ (120° range)
 - 2) Elevation: EL (5° - 85°) above the horizon
- SRS-16 The manual pointing shall be adjustable in fine increments in azimuth with minimum 40° range.
- SRS-17 The manual pointing shall be adjustable in fine increments in elevation with minimum 10° range.
- SRS-18 Fine increments shall be such that the pointing loss from boresight does not exceed 0.2 dB in X-band.
- SRS-19 Fine increments shall be such that the pointing loss from boresight does not exceed 0.5 dB in military Ka-band.
- SRS-20 The antenna auto-pointing and auto-tracking system shall allow re-pointing of the antenna in two-axis with a continuous range of motion with the following parameters:
- 1) Azimuth: minimum of 60°
 - 2) Elevation: 5° to 85° above the horizon
- SRS-21 The tracking sub-system shall consist, as a minimum but not limited to, the following elements:
- 1) Antenna Control Unit (ACU) and Beacon Receiver,
 - 2) Axis Drive
 - 3) Axis Control
- SRS-22 The tracking sub-system shall support, as a minimum but not limited to, the following modes of operation:
- 1) Manual – Manually change azimuth and elevation position of the terminal by means of hand crank.

- 2) Semi-Auto – Manually change azimuth and elevation position of the terminal by means of a hand held remote control and external jog assembly or by a virtual interface enabling the ability to manually jog the antenna by commanding its motorised motion devices.
 - 3) Auto – Automatically change azimuth and elevation position of the terminal based on automatically acquired position, date and/or programmed values by the operator.
- SRS-23 The MB-DSGT shall provide all the necessary devices needed to ensure appropriate initial pointing, re-pointing and permanent automatic tracking of a geosynchronous satellite.
- SRS-24 The antenna shall support manual positioning by a single operator in all modes of operation.
- SRS-25 A compass and an inclinometer of sufficient quality and accuracy to aid or verify the initial manual antenna pointing shall be provided. Moreover, for manual pointing, azimuth angle relative to the antenna pedestal shall be able to be read with 1 degree resolution and additional marking every 5 and 10 degrees.

3.1.3 Transmit RF Chain

- [21] The MB-DSGT may provide the amplifier (shall be GaN based) and upconverter as an integrated, block up-converter, which would support the overall RF performance of the system.
- SRS-26 The upconversion frequency range in X-band shall be:
- 1) Output Frequency Range: 7900 – 8400 MHz
 - 2) Input Frequency Range: 950 – 1450 MHz
- SRS-27 The upconversion frequency range in military Ka-band shall be:
- 1) Output Frequency Range: 30000 – 31000 MHz
 - 2) Input Frequency Range: 950 – 1950 MHz
- SRS-28 The upconversion function shall be able to accept external 10 MHz reference input, details of which is given in 3.1.6.
- SRS-29 In case of inavailability of the external frequency reference, the upconverter, amplifier or block up-converter shall be able to automatically switch to internal 10 MHz frequency reference with an accuracy better than ± 30 ppb.
- SRS-30 The upconverter, amplifier or block up-converter shall be equipped with a Tx output signal sampling port.
- SRS-31 The upconverter, amplifier or block up-converter shall have built-in ethernet functionality. Upconverter, amplifier or block up-converter with external ethernet interconnection box shall not be acceptable.

SRS-32 The upconverter, amplifier or block up-converter IF (L-band) input interface shall be 50 Ohm N-type connector.

3.1.4 Receive RF Chain

[22] The MB-DSGT may provide the (low noise) amplifier and downconverter as an integrated, block down-converter, which would support the overall RF performance of the system.

SRS-33 The downconversion frequency range in X-band shall be:

- 1) Input Frequency Range: 7250 – 7750 MHz
- 2) Output Frequency Range: 950 – 1450 MHz

SRS-34 The downconversion frequency range in military Ka-band shall be:

- 1) Input Frequency Range: 20200 – 21200 MHz
- 2) Output Frequency Range: 950 – 1950 MHz

SRS-35 The downconversion function shall be able to accept an external 10 MHz reference input, details of which is given in 3.1.6.

SRS-36 In case of inavailability of the external frequency reference, the downconverter, amplifier or block down-converter shall be able to automatically switch to internal 10 MHz frequency reference with an accuracy better than ± 30 ppb.

SRS-37 The downconverter, amplifier or block down-converter IF (L-band) output interface shall be 50 Ohm N-type connector.

SRS-38 In order to power and trouble-shoot the amplifier and downconversion functions, any necessary specific adapter (such as Bias-Tee) shall be supplied by the Contractor.

3.1.5 Waveguide Equipment

SRS-39 The MB-DSGT shall include waveguide equipment that enables rapid (less than 30 seconds) connection and disconnection without damaging the interconnecting components. No specific tools shall be required for this task.

SRS-40 The MB-DSGT shall provide waveguide protection solutions that would prevent humidity inside the waveguides of MB-DSGT.

SRS-41 Waveguides shall be sealed with RF conductive foils to prevent air ingress and ensure proper electric continuity.

3.1.6 Time and Frequency Reference Subsystem (TFRS)

SRS-42 The TFRS equipment shall provide as a minimum:

- 1) Dual atomic (rubidium or equivalent) frequency standards, with the capability to synchronize the long term stability on GPS signals, with

automatic switch-over. The absence of receiving GPS signal shall not affect the provision of the accurate 10 MHz to all connected equipment,

- 2) A frequency distribution function – The number of 10 MHz signal outputs shall be minimum 4 at a level adjustable between +6 dBm and +16 dBm,
- 3) A GPS receiver, with antenna and cabling (the GPS antenna shall be remote up to 15 meters from the indoor equipment and provided with an interconnecting cable), provided that GPS antenna standing at a location ensuring visibility of a sufficient number of GPS satellites.

SRS-43 TFRS shall provide 10 MHz frequency reference signal with accuracy referred in Section 3.2.4.

SRS-44 When GPS disciplined, the GPS receiver shall meet the following minimum requirements, which include the effects of Selective Availability (SA) of NAVSTAR:

- 1) Receiver inputs: 1575.42 MHz (L1) - C/A (Coarse-acquisition) Code
- 2) Timing accuracy: 300 ns UTC (USNO)
- 3) Acquisition time: Warm start < 5 minutes

Cold start < 20 minutes

- 4) Position accuracy: Spherical error up to 100 metres

SRS-45 TFRS shall provide a time reference signal compliant with IRIG-B 001, 1 pulse-per-second interface.

SRS-46 It shall be possible to select the TFRS provided time as UTC.

SRS-47 It shall be possible to show UTC on the front panel of TFRS.

SRS-48 TFRS shall provide Network Time Protocol (NTP) to synchronise time on ethernet local area network (LAN).

SRS-49 TFRS shall be able to be secured simultaneously both at the front and at the rear when integrated into a 4-post rack.

3.1.7 Monitor and Control (M&C)

SRS-50 All MB-DSGT equipment shall have Ethernet ports for monitor and control functions.

SRS-51 The Ethernet ports shall be the only communication interface for monitor and control functions.

SRS-52 The MB-DSGT shall be SNMP compatible allowing for the use of any 3rd party software applications to remotely manage the terminal.

- SRS-53 The MB-DSGT shall be able to be monitored by any third party application, provided as PFP.
- SRS-54 The MB-DSGT shall be able to provide raw data of the internal status to allow a third party application to fully monitor the system functionality and any performance degradation and perform fault detection and isolation down to LRU level.
- SRS-55 The MB-DSGT shall be able to be configured, monitored and operated without any third party equipment or software, using the M&C laptop and its software, locally or remotely (fibre) connected to the terminal components.
- SRS-56 Using the M&C laptop, the operator shall be able to fully monitor the system functionality and performance and perform fault detection and isolation down to LRU level.
- SRS-57 The following parameters shall be automatically acquired by the system and displayed to the third party software and to the operator within the ACU M&C application or screens :
- 1) The terminal longitude,
 - 2) The terminal latitude,
 - 3) Date and time (refreshed every second) in UTC
- SRS-58 The MB-DSGT shall support manual override or insertion of the parameters given in the requirement above by the operator (and third party software) in case the automatic acquisition becomes unavailable or there is an interference affecting the geo-location process.
- SRS-59 The MB-DSGT shall be able to display the calculated azimuth and elevation to the operators prior of antenna movement to the target position.
- SRS-60 The MB-DSGT shall provide an emergency stop function of the antenna motion, to freeze the antenna motion immediately, and to resume the motion of the antenna at any time. This function shall be available both with the M&C Laptop and the third party M&C software.
- SRS-61 A re-initialisation of the antenna control software shall not induce any motion or repointing of the antenna.
- SRS-62 Alarms shall be provided to detect irregularity in axis motion, obstruction, free-run or over-travel of the antenna motion as part of axis control.
- SRS-63 An alarm shall be provided in case of excessive wind requiring operator contingency action to set the equipment in survival mode.
- SRS-64 An alarm shall be provided for excessive temperature (hot and cold).
- SRS-65 The travel limits of the antenna motion system shall be adjustable by the operator.

- SRS-66 The system shall be equipped with physical travel limits (hardware limit) to prevent damage to the equipment.
- SRS-67 The system shall support pre-limit sensing (software limit) of the electromechanical drive in each axis, in order to bring the antenna reflector assembly to a halt before it reaches the physical travel limit.
- SRS-68 As a minimum, the parameters listed below shall be monitored both by the M&C laptop and the third party M&C software:
- 1) Antenna Subsystem, beacon level, beacon threshold alarm
 - 2) Antenna Subsystem, auto-track status
 - 3) TFRS high level configuration, source selection (GPS signal acquisition, number of satellites, frequency reference internal, locked on the GPS long-term standard), status (lock or unlocked) and alarms (time alarm/freq alarm)
 - 4) UPS, charging / discharging status, AC input parameters (voltage, current, etc.) battery condition
 - 5) Wind speed and external temperature
 - 6) Equipment fault status (for all equipment provided throughout this Contract and specified in this SRS)
 - 7) Equipment Temperature Alarms
- SRS-69 As a minimum, the following parameters shall be monitored and controlled both by the M&C laptop and the third party M&C software:
- 1) Antenna pointing angles (azimuth and elevation relative to true north and relative to the pedestal)
 - 2) Antenna subsystem, beacon frequency, emergency freeze and tracking mode
 - 3) Total output power at antenna input and EIRP
 - 4) Power amplifier functions and status (on, off, gain, output power, mute/transmission status)
 - 5) Transmit gain/loss setting of each device contributing to the gain of transmit chain from IFoFL input to the antenna input
 - 6) Receive gain setting of each device contributing to the gain of receive chain from LNA input to IFoFL output.
- SRS-70 The system shall be able to be remotely monitored and controlled from the DBAC up to 750 meters through IFoFL.

3.1.8 Interfacility over Fiber Link (IFoFL)

[23] The Interfacility over Fiber Link (IFoFL) between the MB-DSGT and DBAC is comprised of a fibre cable assembly and a fiber optic converter set.

SRS-71 The fibre optic converter set shall include an out-door unit (ODU) and an in-door unit (IDU-max 1 RU high and 50 cm depth) with interface panels to host the physical interfaces of the signals.

SRS-72 The IFoFL shall provide 4-strand single mode, OS2 standards compliant, fibre optic cables: one continuous piece of 500 meters, one continuous piece of 250 meters, and one continuous piece of 50 meters.

SRS-73 Each fibre optic cable shall have connectors installed that provide interoperability with the connectors of the fibre optic converter sets as presented on the interface panel of the ODU.

SRS-74 It shall be possible to use the fibre optic cables:

- 1) Separately from each other,
- 2) By joining different lengths of cables whenever required

SRS-75 The fibre optic cables shall be mounted and delivered on cable reels.

SRS-76 The cable reels and fibre optic cables shall be military grade, designed and manufactured for tactical deployment and for outdoor operations.

SRS-77 The fibre optic cable reels shall meet following requirements (for fibre cable length greater than 100 m, manual (no spring-driven) reels shall be provided):

- 1) Heavy duty, ruggedized for field military applications
- 2) Painted with the same colour and type of painting as the transport and transit cases
- 3) Roll-formed channel frame for heavy-duty applications
- 4) Equipped with non-sparking ratchet assembly
- 5) Equipped with declutching arbour to prevent damage from reverse winding
- 6) Equipped with fold-in swivel handles
- 7) Lightweight aluminium structure with protecting frame
- 8) Easy access assured to the inner and outer cable ends
- 9) Equipped with fixings to secure cable ends for transport, handling and storage
- 10) Designed in such a way that the cables can be rolled out and rolled back by maximum of two-person team

3.1.9 De-icer

- SRS-78 A de-icer capability that removes snow and ice from the antenna (reflector(s) and feed) shall be provided.
- SRS-79 The de-icer shall not affect the RF performance of the antenna system.
- SRS-80 The de-icer shall not have a negative impact on the life duration of the antenna.
- SRS-81 The de-icer shall not cause chipping and flaking on the antenna surface.
- SRS-82 The de-icer shall report its ON/OFF status to M&C system in case it is an active component.
- SRS-83 The de-icer shall have its own electrical circuit path separate from the UPS.

3.2 Performance Requirements

- SRS-84 The MB-DSGT shall comply with STANAG-5648 (ratification draft or latest ratified version at the closing date of IFB) or MIL-STD-188-164C, as developed throughout this SRS.
- SRS-85 The system shall have minimum 69 dBW of saturated EIRP in X-band.
- SRS-86 The system shall have minimum 66 dBW of linear EIRP in X-band.
- SRS-87 The system shall have minimum 70 dBW of saturated EIRP in military Ka-band.
- SRS-88 The system shall have minimum 67 dBW of linear EIRP in military Ka-band.
- SRS-89 The single carrier maximum-linear power (or EIRP) shall equal the carrier power (or EIRP) where the first spectral regrowth side lobe (measured at 1.0 symbol rate, expressed in Hz from the carrier center frequency) of the modulated carrier is -30 dBc.
- SRS-90 Two carrier maximum-linear power/EIRP shall equal the maximum combined transmit power of two equal amplitude continuous wave (CW) carriers, when any individual intermodulation product power is -25 dB relative to the combined power of the two CW carriers.
- SRS-91 The system G/T in X-band shall be at least 21 dB/K at 10° elevation at an ambient temperature of 23 °C.
- SRS-92 The system G/T in military Ka-band shall be at least 26 dB/K at 10° elevation at an ambient temperature of 23 °C.

[24] G/T includes the entire reception function contributions.

3.2.1 Antenna

- SRS-93 The Antenna shall be able to operate in the following frequency bands by changing the antenna feed and RF-equipment.
- SRS-94 X-band:
- 1) Tx: 7900 - 8400 MHz
 - 2) Rx: 7250 - 7750 MHz
- SRS-95 Mil Ka-band:
- 1) Tx: 30.000 – 31.000 GHz
 - 2) Rx: 20.200 – 21.200 GHz
- SRS-96 The transmit axial ratio for the system operating in the X-band shall be no greater than 1.0 dB.
- SRS-97 The receive axial ratio for the system operating in the X-band shall be no greater than 1.0 dB.
- SRS-98 The transmit axial ratio for the system operating in the military Ka-band shall be no greater than 1.0 dB.
- SRS-99 The receive axial ratio for the system operating in the military Ka-band shall be no greater than 1.0 dB.
- SRS-100 The radiation pattern of the antenna while both transmitting and receiving shall be in accordance with ITU-R S.580-6.
- SRS-101 The gain of the antenna, G , shall be such that at least 90 percent of the sidelobe peaks do not exceed:
- $G(\theta) = 29-25 \log_{10}(\theta)$ dBi for 1° or $100 \lambda / D_e$ (whichever is larger, up to $2^\circ \leq \theta \leq 20^\circ$)
 - $G(\theta) = -3.5$ dBi for $20^\circ < \theta \leq 26.3^\circ$
 - $G(\theta) = 32-25 \log_{10}(\theta)$ dBi for $26.3^\circ < \theta \leq 48^\circ$
 - $G(\theta) = -10$ dBi for $48^\circ < \theta \leq 180^\circ$
- [25] G = gain relative to an isotropic antenna, θ = off-axis angle in the direction of the satellite referred to the main-lobe axis, D_e = equivalent antenna diameter and λ = wavelength (same units as D_e).
- SRS-102 For the appreciation of SRS-101 above, the angular regions and allowed side-lobe peak excess shall be within the limits as defined below:
- 1 dB for $\theta_{\min} < \theta \leq 7^\circ$, where $\theta_{\min} = 1^\circ$ or $(100 \lambda / D_e)$ degrees, whichever is greater
 - 3 dB for $7^\circ < \theta \leq 9.2^\circ$

- 3 dB for $9.2^\circ < \theta \leq 48^\circ$
- 10 dB for $48^\circ < \theta \leq 180^\circ$

SRS-103 The transmit and receive main lobe axes of the antenna radiation pattern shall be coincident within 0.1° for X band.

SRS-104 The transmit and receive main lobe axes of the antenna radiation pattern shall be coincident within 0.02° for military Ka band.

3.2.2 Transmit RF Chain

SRS-105 The power level of the upconversion function shall be adjustable in steps ≤ 0.5 dB, over a dynamic range of 30 dB.

SRS-106 The up-conversion function shall be such that the input signal level of -20 dBm at IFoFL input leads to maximum linear EIRP.

SRS-107 For any setting of the transmit gain and a constant IF input level, the EIRP in the direction of the satellite shall not vary more than +1.0 dB or -1.5 dB in any 24-hour period. This tolerance, added on a root-sum-square (RSS) basis, includes all system factors contributing to the EIRP variation, including output power level instability and power variations in the direction of the satellite caused by tracking errors referenced to boresight.

SRS-108 The upconversion process shall not induce a frequency error greater than 1 kHz relative to the intended value of the received carrier frequency. Up-conversion frequency accuracy shall be maintained for a 180-day period or more without recalibration.

SRS-109 Departure from phase linearity of the transmission function, when operating at any point up to the maximum linear power, shall not exceed:

- 1) ± 0.7 radians over any 120-MHz for any L-band IF
- 2) ± 0.2 radians over the center 10 MHz for any IF operation.

SRS-110 Amplitude variations of the transmit (uplink) function when operating at maximum linear power shall not exceed the following:

- 1) ± 0.5 dB over any 10-MHz segment across the instantaneous bandwidth.
- 2) ± 1.5 dB over any 120-MHz segment, or any smaller segment, across the instantaneous bandwidth ($10 \text{ MHz} < \text{segment} < 120 \text{ MHz}$).
- 3) ± 1.5 dB for each output frequency band in X (7.9-8.4 GHz) and mil-Ka (30-31 GHz) band.

SRS-111 The sum of the fundamental and all harmonic components of the alternating current (AC) line frequency shall not exceed -30 dBc.

SRS-112 The single sideband sum (added on a power basis) of all other individual spurious components shall not exceed -36 dBc.

SRS-113 The single sideband power spectral density (PSD) of the continuous phase noise component shall comply with the envelope defined in Figure 3-1 below.

SRS-114 If specific points associated with the measured phase noise plot exceed the Figure 3-1 envelope, then the following two conditions shall be met:

- 1) The single sideband phase noise due to the continuous component, when integrated over the bandwidth from 10 Hz to 16 kHz relative to carrier center frequency, shall be less than 3.4° root mean square (RMS) (with a two-sided value of 4.8° RMS).
- 2) The single sideband phase noise due to the continuous component, when integrated over the bandwidth from 1 percent of the symbol rate (Rs) to Rs Hz relative to the carrier center frequency, shall be less than the value obtained when integrating the Figure 3-1 plot over the same limits. This requirement applies to all operational Rs values between 100 Ks/sec and 50 Ms/sec.

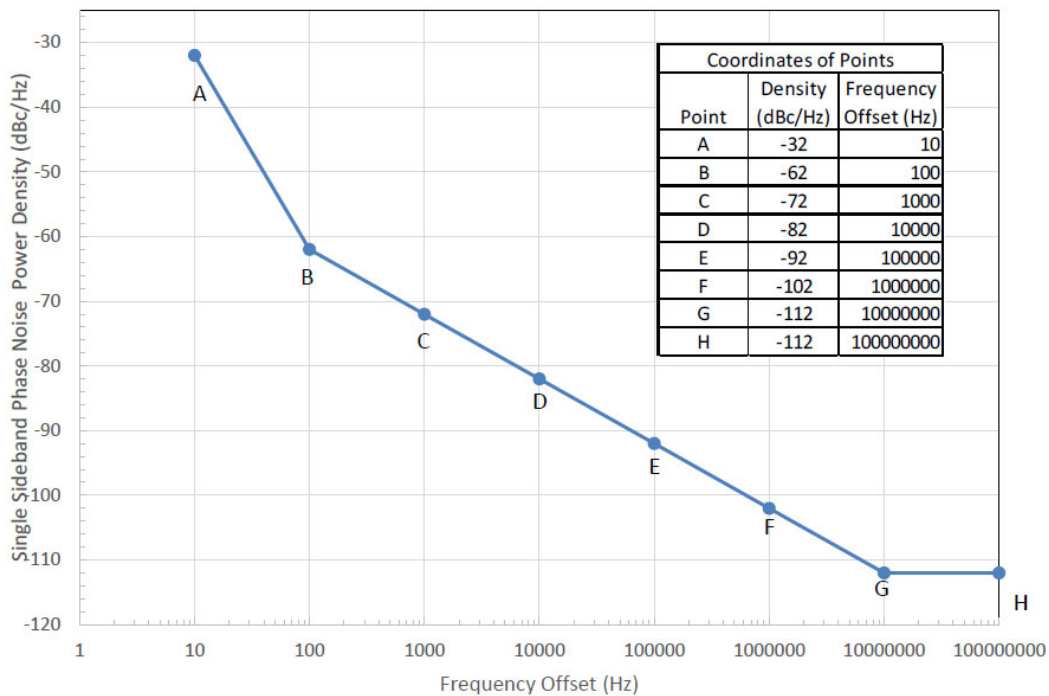


Figure 3-1 Phase Noise- (reference MIL-STD-188-164C)

SRS-115 With the transmit equipment aligned and a CW signal applied to the IF input such that maximum linear power is achieved, or with the array configured to radiate maximum linear power and a CW signal applied to the IF input, extraneous emissions as measured over any 10-kHz bandwidth shall not exceed the following values:

- 1) Transmit band: -60 dBc when measured at the feed. This requirement excludes a 2-MHz band centered on the carrier.

- 2) Non-transmit band: -60 dBc, except for the band $31.0 \text{ GHz} \leq f \leq 33.0 \text{ GHz}$, which shall not be greater than -45 dBc at 31.0 GHz and shall decrease linearly to -60 dBc by 33.0 GHz.
- SRS-116 The level of the second and third harmonics of the transmit carriers shall not exceed -60 dBc when measured at maximum linear power.
- SRS-117 Transmit-to-receive isolation shall be such that there is less than 0.1 dB degradation in specified receive noise density with the transmitter operating at any EIRP level, compared to the receive performance with the transmitter turned off.
- SRS-118 For X-band operation, intermodulation products appearing at the low-noise amplifier (LNA) input in the receive band, due to two equal power transmit carriers transmitting up to the maximum linear EIRP specified under 'Performance Requirements', shall be no greater than -135 dBm.
- SRS-119 No spectral inversion shall exist between any IF input and the antenna output for system operating with non-embedded modems. System with embedded modems shall be interoperable with terminals that do not have embedded modems.
- SRS-120 The IF input impedance shall be nominally 50-ohms, with a VSWR not to exceed 1.5:1 over the specified bandwidth.

3.2.3 Receive RF Chain

- SRS-121 The RF-to-IF gain adjustment shall be at least 20 dB in steps of 1 dB or less.
- SRS-122 For X-band, all reception functions shall be met with the required performance level with the maximum power flux densities (PFDs) as follows:
- 1) -142 dBW/m² in any 4-kHz band in any single carrier;
 - 2) -95 dBW/m² across the entire 500-MHz band.
- SRS-123 For military Ka-band, all reception functions shall be met with the required performance level with the maximum PFDs as follows:
- 1) -112 dBW/m² in any 1-MHz band in any single carrier;
 - 2) -90 dBW/m² across the entire 1-GHz band.
- SRS-124 The receive chain absolute gain shall be sufficient to raise the IF interface noise power spectral density, when pointing to a cold sky away from a geosynchronous satellite at an angle of 30 degrees, to at least -95 dBm/Hz.
- SRS-125 The output impedance at the terminal IF interface shall be 50 ohms, with a Voltage Standing Wave Ratio (VSWR) less than 1.5:1 over the specified bandwidth.

- SRS-126 The down-conversion frequency accuracy shall be within 1 kHz of the intended value for all received RF carriers. Down-conversion frequency accuracy shall be maintained for a 180-day period or more without recalibration.
- SRS-127 The RF-to-IF phase response of the reception function shall not deviate from linear by more than the following amounts:
- 1) ± 0.7 radians over any 120-MHz for any L-band IF
 - 2) ± 0.2 radians over the center 10 MHz for any IF operation.
- SRS-128 Amplitude variations as measured at the system IF output (demodulator input) shall not exceed the following:
- 1) ± 0.5 dB over any 10-MHz segment across the instantaneous bandwidth
 - 2) ± 1.5 dB over any 120-MHz segment or smaller segment across the instantaneous bandwidth (10 MHz < segment < 120 MHz)
 - 3) ± 1.5 dB for each frequency band in X (7.25-7.75 GHz) and mil-Ka (20.2-21.2 GHz) band.
- SRS-129 The sum of all spurious signal power shall be at least 10 dB below the thermal noise power within any 500 MHz bandwidth of interest, when measured across the terminal IF output interface.
- SRS-130 No one spurious signal shall exceed the level of 20 dB below the thermal noise power within 100 KHz bandwidth of interest, when measured across the terminal IF output interface.
- SRS-131 The receive spurious requirements of the previous two requirements shall be met under the following simultaneous conditions:
- 1) Transmitting multiple carriers at the maximum linear power,
 - 2) Receiving two carriers at the maximum input signal level to the LNA.
- SRS-132 Intermodulation level at the output of receive chain shall not exceed -45 dBc relative to the combined power of the two CW carriers applied at a level of -63 dBm each at LNA input.
- SRS-133 No spectral inversion shall exist between any RF input and the IF output of the system.
- SRS-134 For any setting of the receive gain and for a constant PSD level, the reception function output level shall not vary more than ± 1.5 dB in any 24-h period.

3.2.4 Time and Frequency Reference Subsystem (TFRS)

- SRS-135 TFRS dimensions shall not exceed the following dimensions:
- 1) Height: 1x44.45 mm- 1 Rack Unit (1U)
 - 2) Width: Standard 19 inches (482.6 mm) rack

3) Depth: 500 mm.

SRS-136 TFRS weight shall not exceed 5 kg.

SRS-137 TFRS power consumption shall not exceed 50 Watts.

SRS-138 TFRS shall provide 10 MHz frequency reference signal with an accuracy better than ± 0.1 ppb even in the absence of the GPS signal in all environmental conditions specified throughout this SRS.

SRS-139 TFRS Single Side Band (SSB) phase noise characteristics shall comply with below specifications:

Table 1-TFRS Phase Noise

Frequency Offset	SSB Phase Noise Power Density (dBc/Hz)
1 Hz	-115
10 Hz	-130
100 Hz	-135
1 Khz	-140
10 Khz and above	-140

3.2.5 Interfacility over Fiber Link (IFoFL)

SRS-140 The IFoFL weight (for 750 meter length cable - split into two, one 500 meter and other 250 meter long) shall not exceed 45 kg in total, including the cable reels, handles (foldable or removable) and connectors.

SRS-141 The IFoFL shall not generate more than 0.1 dB degradation (per direction) of the E_b/N_o of the modulated signals transiting through the IFoFL, compared to the signal present at the interface of the outdoor unit of the MB-DSGT.

SRS-142 Intermodulation level at the output of IFoFL shall not exceed -45 dBc relative to the combined power of the two CW carriers applied at a level of -63 dBm each at LNA input.

3.3 Deployability Requirements

SRS-143 The system shall be easily transportable by road, rail, sea, air and rapidly deployed, packed, or redeployed on site.

SRS-144 The system, including all auxiliary equipment such as lashing material, wind tie-downs, grounding and lightning protection system etc., shall be able to be packed into no more than 12 cases and be palletable.

- SRS-145 When the system is packed for transportation, the gross weight of each case shall not exceed 50.8 kg.
- SRS-146 The system shall be able to be loaded and secured on Standard Euro Pallets (Type EUR 1: 1,200 x 800 x 144 millimetres), not exceeding these dimensions.
- SRS-147 The system shall be capable of being transported by air (fixed-wing airplane or helicopter) in un-pressurized compartments, without sustaining damage or prejudicing safety, including restrictions and requirements for transportation of dangerous goods.
- SRS-148 The system shall be able to be loaded and secured on one HCU 463L Air Cargo Pallet (HCU-6/E), that is compliant with MIL-STD-1791C w/Change 1 - 29 December 2017: Designing for Internal Aerial Delivery in Fixed Wing Aircraft (certified for these aircrafts: C-130, C-5, C-27, CH-47, KC-10, C-17, C-9).
- SRS-149 When packed for transportation, the total volume of the cases and enclosures of the system shall not exceed 50% of the loading capacity (interior cargo dimensions) of the following sample vehicle:
- 1) Mercedes Sprinter Van, Standard Length (144WB), Low Roof
- SRS-150 The cases shall be equipped with:
- 1) auto pressure release valves, and humidity indicators visible from outside
 - 2) stacking corners
 - 3) drop handles with return spring and plastic or rubber sheathing
- SRS-151 Pressure release valves shall avoid soaking water into the case. This can occur for example (but not only) due to the negative pressure when a case is rapidly cooled down during rain after being exposed long to the sun.
- SRS-152 Each case, with CIS and/or UPS equipment operating from within the case, shall be provided with adequate air inlets and air outlets to assure required air flow and heat dissipation.
- SRS-153 The air inlets and air outlets shall be protected with removable lids for transport and storage.
- SRS-154 The components in a case shall be mounted on shock absorbers and vibration dampers, or otherwise protected (e.g. custom cut foam), such that the case with mounted components as a whole meets the transport environmental requirements specified in Section 3.7.
- SRS-155 The cases, when fully loaded, shall allow stacking them on top of each other with no damage to housed equipment and the cases itself.
- SRS-156 Cases shall be capable of being secured to anchor points to prevent theft and movement in order to avoid damage during transportation.
- SRS-157 Each case shall be lockable to prevent theft or tampering (e.g. padlock).

- SRS-158 The Contractor shall provide padlocks for each case.
- SRS-159 The padlocks shall have;
- 1) Lock body made from brass
 - 2) Inner components made from non-corrosive materials
 - 3) Stainless steel shackle
 - 4) Precision pin tumbler cylinder
 - 5) 2 keys
- SRS-160 The system, including all its equipment, shall be packaged in such a way as to minimise its physical dimensions.
- SRS-161 The packaging of the system shall prevent any imbalance to its transportation and lifting.
- SRS-162 The complete assembly of components and case shall meet the environmental requirements specified in Section 3.7.
- SRS-163 The power subsystem shall be equipped with a Connectorized Front Panel (CFP), suitable for outdoor operation.
- SRS-164 The CFP shall be removable and re-installable for maintenance or for re-patching of connectors to equipment ports by the Purchaser, without assistance from the Contractor.
- SRS-165 The CFP shall include signal and power interfaces presented on a front panel that is fixed to the case.
- SRS-166 CFP shall be protected by a removable lid for transport and storage.
- SRS-167 Each MB-DSGT shall be equipped with supplementary wind tie-downs to cater for the Environmental Requirements Conditions stipulated in Section 3.7.
- SRS-168 The Contractor shall provide suitable lifting devices for manual lifting and carrying, assuring compliance with ISO 11228-1.
- SRS-169 The Contractor shall ensure that all spares are delivered in reusable packaging. This packaging may also be used for storage of equipment if not used.
- SRS-170 The packing cases shall be capable of being secured to the structure of the vehicle with typical lashing straps with buckle according to the European Standard for lashing EN 12195-1:2010 and EN-12195-2:2001.
- SRS-171 The Contractor shall provide adequate number and type of lashing straps with buckles with torque limiter to prevent excessive lashing that could cause damages to transport cases. The lashing material shall be compliant with EN 12195-1:2010 and EN-12195-2:2001.
- SRS-172 The Contractor shall provide camouflage nets for each MB-DSGT.

- SRS-173 The number of camouflage nets shall be sufficient to cover the entire MB-DSGT in its operational configuration and disguise its shape.
- SRS-174 The camouflage nets shall be composed of disruptive patterning for the European Theatre of Operations (woodland).
- SRS-175 The camouflage nets shall resemble normal foliage in natural conditions and blend into the natural surroundings of the European Theatre of Operations (woodland).
- SRS-176 The camouflage nets shall be in compliance with Allied Engineering Publication AEP-31, Edition 1, 1994: Reference Document of Colors for Disruptive Camouflage for Military Equipment In Use In NATO.
- SRS-177 Camouflage net materials shall be resistant to mould growth and shall withstand limited contamination by the most relevant fungal species listed in Table 1 of AECTP 300 Edition D, version 1, test method 308 without substantial degradation. The mould growth shall manifest as no greater than 'Trace' when tested in accordance with method 308.
- SRS-178 Camouflage net shall be 100% waterproof and shall not become clogged or heavy due to wet or damp conditions
- SRS-179 Camouflage net shall be UV deterioration and infra-red treated, of a non-toxic fabric, but lightweight, strong and durable.
- SRS-180 Camouflage net shall be as quiet and rustle free as possible.
- SRS-181 Camouflage net shall be specially coated to reduce shine and glare. **The reduction of shine and glare can be achieved whether by coating, production method or special fabrics.**
- SRS-182 Camouflage net shall remain pliable in the extreme environmental conditions the associated MB-DSGT is to be compliant with.
- SRS-183 Special flame retardant treatments shall have been applied to camouflage nets.
- SRS-184 Camouflage nets shall be easily compressed and packed into storage bags for ease of transportation and storage. The use of lightweight modern waterproof textiles is recommended.
- SRS-185 Camouflage net storage bags shall be sized to allow repacking under field conditions.
- SRS-186 Camouflage net shall be provided with all the necessary associated equipment in order to set-up the nets over the MB-DSGT elements and to anchor it. This might include, but is not limited to strings, spikes, arch and bars. All shall be stored with the nets.
- SRS-187 The MB-DSGT system shall continue to meet all requirements specified throughout this SRS (including RF and system performance) while the camouflage nets are fitted on any components of the MB-DSGT.

- SRS-188 The MB-DSGT system shall be designed to minimise the risks of toppling or instability when deployed.
- SRS-189 The set-up time and making operational of the MB-DSGT system shall be less than 1 hour (60 Minutes) by a trained two-person team.
- SRS-190 The set-up time shall start from the time the cases are located on the ground next to a suitable antenna location within line of sight of the satellite and shall include the satellite modems locked at both ends of the link, considering baseband equipment is ready to operate with the connections already done.
- [26] For the appreciation of set-up time requirement, this time assumes that the satellite approximate pointing angles are known, and the satellite path is not blocked by obstacles and anchoring of the antenna is not required due to adverse wind conditions.
- SRS-191 The tear-down time of the system including packaging shall be less than 30 minutes by a trained two-person team.
- [27] Tear-down time shall start from the moment decision is made to switch off the carriers radiated by the system.
- SRS-192 It shall be possible to switch between frequency bands in less than 30 minutes.
- SRS-193 The system shall be capable of unmanned operations after initial set-up, and of being controlled and monitored:
- 1) Locally via Contractor M&C application
 - 2) Distantly by the personnel via DBAC and ASNMC system, which are provided as PFP through another project
 - 3) Remotely from any other location like the NATO Network Control Centre (NNCC) using the PFP that shall be supplied through other projects.
- SRS-194 The system shall be capable of being deployed and packed in environmental conditions for which performance is guaranteed.
- SRS-195 The system shall be capable of being deployed, operated, maintained, and folded on moderately uneven ground such as paved or unpaved road or roadside, grassland, dusty/sandy earth or muddy terrain not necessarily perfectly horizontal, with a slope of up to 5 degrees in any direction.
- SRS-196 The equipment shall be capable of being deployed and packed during winter conditions by operators wearing gloves.
- SRS-197 The systems shall support semi-static deployments up to 1-year long.

3.4 Interface Requirements

- SRS-198 The system shall include all the necessary interconnection cables to support the functional requirements detailed in Section 3.1.

- SRS-199 All connectors, cables, and waveguides shall have a mating connector supplied, exceptions such as N-type and BNC-type connectors shall be subject to Purchaser approval.
- SRS-200 The monitoring LEDs shall be coherent throughout all the subsystems of the system, if any.
- SRS-201 MB-DSGT shall use metric system for all components and documentation.
- SRS-202 Electrical equipment wiring, including color codes, shall be compliant with IEC 60445:2021.
- SRS-203 European standards for wiring, including color codes, shall be fully applied throughout the system.

3.4.1 IF and M&C Interfaces

- SRS-204 The MB-DSGT shall provide IF (intermediate frequency) over fibre link conversion solution for the Tx and Rx IF connection with the external IF & baseband systems mentioned in Sections 1 and 2.
- SRS-205 The MB-DSGT shall provide 10 MHz over fibre link conversion solution for the equipment mentioned in Sections 1 and 2 .
- SRS-206 The MB-DSGT shall provide Ethernet over fibre link conversion solution for M&C connection with the external systems mentioned in Sections 1 and 2.
- SRS-207 The system shall have the required interfaces to be fully interoperable with below systems, provided as PFP :
- 1) DBACs,
 - 2) The legacy DSGT modem cases,
 - 3) The 4th generation, multiband TSGTs,
 - 4) The existing TSGTs.
- SRS-208 The system shall also be interoperable with SATCOM Anchor Components (SACs) over the air.
- SRS-209 The MB-DSGT shall provide an L-band duplex interface for at least 500 MHz of instantaneous bandwidth situated in the 950-1450 MHz range for X band with the exact frequency span as required for compatibility with the selected modem.
- SRS-210 The MB-DSGT shall provide an L-band duplex interface for at least 1 GHz of instantaneous bandwidth situated in the 950-1950 MHz range for military Ka band with the exact frequency span as required for compatibility with the selected modem.
- SRS-211 The IFoFL shall have a 10 MHz (simplex from indoors to outdoors) interface compatible with TFRS detailed in Section 3.2.4.
- SRS-212 The IFoFL interface shall provide minimum the following physical interfaces:

- 1) 50 ohm N-type interface for the L-band RF connections, one for each Tx and Rx,
- 2) Two Ethernet, 10/100Base-TX or 10/100/1000Base-T, Auto-MDIX and Auto-Negotiation, RJ45, interfaces for M&C signal. One local and one remote,
- 3) Interface for 10 MHz connections.

SRS-213 Any unused IF and RF connector shall be terminated by 50 Ohms impedance load.

SRS-214 Any copper interfaces presented on interface panels shall be implemented using MIL-DTL-38999 series III based connectors, equipped with dust caps in the receptacle as well as in the cable side.

SRS-215 In case of copper Ethernet interfaces, the MIL-DTL-38999 series III based connector shall have an internal RJ45 connector and a MIL-DTL-38999 series III shell.

3.4.2 Optical Interfaces

SRS-216 Any optical interfaces presented on the external interface panels and all external fibre optic reels shall be implemented using Stratos Lightwave HMA or compatible, 4-channel, straight (i.e. non angled) polish, Jam Nut style bulkhead connectors.

SRS-217 All connectors shall be provided with captive protection caps.

SRS-218 All fibre interfaces and fibre strands shall be single-mode fibre.

3.5 Supportability Requirements

[28] For Reliability, Maintainability, Testability and Availability definitions and methods please refer to:

- 1) MIL-HDBK-338B : Electronic Reliability Design; and
- 2) IEC 61078:2006 : Analysis techniques for dependability - Reliability block diagram and Boolean methods; and
- 3) MIL-STD-756B : Reliability Modelling and Prediction; and
- 4) SR-332 : Reliability Prediction Procedure for Electronic Equipment; and
- 5) HDBK-217Plus; and
- 6) ANSI/VITA 51.1-2013 (R2018) : Reliability Prediction MIL-HDBK-217 Subsidiary Specification ;and
- 7) MIL-HDBK-781 : Reliability test methods, plan and environments for engineering development, qualification and production; and
- 8) MIL-HDBK-470A : Design and developing of maintainable systems; and
- 9) IEC 60812:2018 : Failure modes and effects analysis (FMEA and FMECA); and

10) MIL-STD-1629A : Failure Mode Effect and Criticality Analysis.

[29] For Maintenance Level definitions please refer to the “Maintenance and Support Concepts” Appendix E of Statement of Work (SoW).

[30] For Human Engineering design criteria for Logistics Support please refer to MIL-STD-1472G.

3.5.1 Reliability

SRS-219 The system shall be designed such that a failure or removal of a component or item in the system does not cause a physical and/or functional failure of another component or item.

SRS-220 Mean Time Between Failures (MTBF) at system level shall be greater than 4000 hours in Ground Fixed environment (ref. MIL-HDBK-338B), 30°C ambient temperature, using failure rates data at component level for relevant predictions.

SRS-221 Mean Time Between Critical Failures (MTBCF) at system level shall be greater than 5000 hours in Ground Fixed environment (ref. MIL-HDBK-338B), 30°C ambient temperature using failure rates data at component level for relevant predictions.

3.5.2 Maintainability

SRS-222 Mean Time To Repair (MTTR) per relevant Maintenance Levels both Hardware (HLs) and Software including Firmware (SLs) shall be:

- 1) MTTR for HL/SL1 and HL/SL2 < 30 min
- 2) MTTR for HL/SL3 < 120 min

SRS-223 Mean Time To Restore Service (MTTRS) per relevant Maintenance Levels both Hardware (HLs) and Software including Firmware (SLs) shall be:

- 1) MTTRS for HL/SL1 and HL/SL2 < 20 min
- 2) MTTRS for HL/SL3 < 60 min

3.5.3 Testability

SRS-224 Fault Detection (FD) rate shall be greater than 95% through Built-In Test (BIT) capable of on-line detection of failure modes.

SRS-225 Fault Isolation (FI) rate without ambiguity shall be greater than 90% through Built-In Test (BIT) capable to isolate the detected internal function/component in failure.

SRS-226 The Built-in-Test (BIT) shall give a fault indication down to at least the level of LRU.

SRS-227 BIT fault detection and isolation resultant information shall be recorded in electronic logs.

3.5.4 Product Support

SRS-228 Maintenance Levels apportionment for hardware and software including firmware for corrective and unscheduled maintenance tasks weighted with the relevant failure rate shall be:

- 1) [Critical + Non-Critical] Failures for HL1-2/SL1-2 > 80%
- 2) Critical Failures for HL1-2/SL1-2 > 90%
- 3) [Critical + Non-Critical] Failures for HL3/SL3 < 15%
- 4) Critical Failures for HL3/SL3 < 10%
- 5) [Critical + Non-Critical] failures HL4/SL4 < 5%
- 6) Critical Failures for HL4/SL4 = 0%

SRS-229 The annual average hour's workload for preventive and scheduled maintenance (up to HL3/SL3) shall not exceed (x10) 10 times the annual average hour's workload for corrective and unscheduled maintenance (up to HL3/SL3) for critical and non-critical failures.

SRS-230 Maintenance tasks shall not involve more than 2 (two) persons for Organizational Maintenance (Level 2) HL/SL2 or lower.

SRS-231 The SW updates and applying settings shall be Software Organizational Maintenance (Level 2) SL2 or lower.

SRS-232 Replaceable items shall weigh:

- 1) less than 16.8 kilograms (37 pounds) for more than 95% of LRUs with direct accessibility;
- 2) Less than 11.3 kg for more than 99% of the LRUs that are only accessible by removing other components or parts thereof.

SRS-233 Items over 16.8 kilograms (37 pounds) shall be designed for two-person handling.

SRS-234 The combination of BIT and troubleshooting in Technical Publications shall allow for the fault isolation of 100% of detected failures.

SRS-235 The maximum down time when the equipment is deployed shall not exceed 8 hours to fix a fault (i.e.: Unscheduled/Corrective Maintenance due to one critical failure or sequence of non-critical failures that lead to a loss of critical function).

SRS-236 The maintenance plan shall include pre-deployment and post-deployment maintenance actions so that no down time (i.e.: zero hours) due to scheduled maintenance and preventive maintenance is required during deployment.

3.5.5 Parts Obsolescence

SRS-237 The system design shall permit to change a specific functional block maintaining the overall architecture unchanged.

3.6 Power Subsystem Requirements

SRS-238 The system shall have its own UPS which shall provide no-break power supply to the entire MB-DSGT, including the outdoor part of the IFoFL (the indoor part of the IFoFL and TFRS will have its own supply). The de-icer and antenna motors don't need to be on UPS.

SRS-239 The system shall be able to work with external power generator, provided as PFP.

SRS-240 There shall be an Emergency Power Off (EPO) switch to isolate the external mains/generator supply and shut down the UPS.

SRS-241 The EPO switch(es) shall be installed in easy access areas and with no obstructions.

SRS-242 The EPO shall have a Red Mushroom type push button.

SRS-243 The EPO switch shall be protected to prevent any inadvertent operation.

SRS-244 The activation of EPO shall be possible without opening any panels, flaps, doors or any other type of covers with easy access and no obstructions.

SRS-245 The EPO shall conform to the following directives and standards as applicable:

- 1) MD 2006/42/EC
- 2) LVD 2014/35/EU
- 3) IEC 60947-5-5:1997+AMD1:2005+AMD2:2016 CSV;
- 4) IEC 60947-5-1:2016
- 5) ISO 13850:2015
- 6) IEC 60204-1:2016

SRS-246 The total power consumption of all system, excluding the de-icer, shall be below 4 kVA for each frequency band.

SRS-247 The total power consumption of all system, including the de-icer, shall be below 6 kVA for each frequency band.

SRS-248 The UPS system shall be compliant with:

- 1) IEC 62040-1:2017/COR1:2019 Corrigendum 1 - Uninterruptible power systems (UPS) - Part 1: Safety requirements
- 2) IEC 62040-2:2016 Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements
- 3) IEC 62040-3:2011 Uninterruptible power systems (UPS) - Part 3: Method of specifying the performance and test requirements
- 4) IEC 62040-4:2013 Uninterruptible power systems (UPS) - Part 4: Environmental aspects - Requirements and reporting

- SRS-249 The UPS autonomy shall be sufficient to assure graceful shutdown of all CIS components supported by the UPS. Unless graceful shutdown requires more than ten minutes, the minimum autonomy shall not be less than 10 (ten) minutes under all environmental conditions specified in Section 3.7.
- SRS-250 The UPS system shall protect CIS components from having physical damages in case of the Prime Power and Emergency Power failures.
- SRS-251 The UPS shall have 20% of spare capacity for additional power load maintaining the autonomy as stipulated in SRS-249 above.
- SRS-252 The UPS system shall provide protection against data loss and CIS components damage due to power failures, voltage dips, voltage spikes, undervoltage, overvoltage, switching spikes, interference voltages, frequency changes and harmonic distortion
- SRS-253 The UPS shall meet following requirements:
- 1) On line, double conversion type
 - 2) Auto Select Input Voltage 120V / 230 V, Single phase
 - 3) Nominal output voltage: 230 V \pm 10%
 - 4) Nominal output frequency: 50 Hz \pm 3 Hz
 - 5) Frequency compatibility: 50 / 60 Hz; Supports 50 to 60 Hz and 60 to 50 Hz conversion with no de-rating
 - 6) Power factor: 0.9
 - 7) Total harmonic distortion (THD): < 5% in accordance with IEC TS 61000-3-4
 - 8) System efficiency: > 90% at full load
 - 9) Soft start
 - 10) Zero transfer time
 - 11) Surge suppressor
 - 12) Static bypass for overload
 - 13) Manual bypass for maintenance
 - 14) Battery monitoring
 - 15) Protection against deep discharge of batteries
 - 16) Hot swappable, rechargeable (replacement of the batteries shall be possible without powering down the UPS) and user replaceable batteries
 - 17) The sound pressure level shall not exceed 65 dB(A) at 1 meter distance in accordance with ISO 3746:2010

SRS-254 The UPS batteries shall be provided with Material Safety Data Sheet (MSDS) as required by International Civil Aviation Organization (ICAO), and International Air Transportation Association (IATA) for air transportation of dangerous goods.

SRS-255 The battery MSDS shall confirm the batteries testing and certification according to United Nations publication: 'Manual of Tests and Criteria for Transportation of Dangerous Goods', part III, subsection 38.3, transport class 9.

SRS-256 The UPS system shall include a visual alarm, an audio alarm and a contact closure loop to inform locally and remotely loss of mains power and of low battery power to ensure the timely implementation of the graceful shutdown processes and procedures.

SRS-257 As a minimum, the following commands and control operations of the UPS system shall be possible and accessible right after the removal of the UPS case lid which protects the UPS unit during transportation, storage and handling:

- 1) System OFF
- 2) System on UPS
- 3) System on Static Bypass
- 4) System on Manual Bypass
- 5) Alarm silence switch
- 6) Measurement of:
 - a) Input current
 - b) Input voltage
 - c) Input power
 - d) DC voltage
 - e) DC current
 - f) Output voltage
 - g) Output current
 - h) Output frequency
 - i) Output power
- 7) As a minimum, visual and audible alarms:
 - a) Battery at low level and low voltage
 - b) System on bypass
 - c) Input supply failure
 - d) Overload

- e) High temperature
- f) UPS not answering – communication lost
- g) Logging of previous minimum 50 alarms shall be possible

8) Automatic battery check-up

SRS-258 The UPS system shall signal changes in status towards the management and control environment, as well as critical capacity warnings and visual and audio indications from the UPS itself.

SRS-259 The UPS battery system shall be capable of operating safely in a low ventilation environment.

SRS-260 Minimum operating life-time of the batteries shall be 5 (five) years.

SRS-261 The UPS system shall take single phase Mains/Generator TN-S Supply in accordance with the International Electrotechnical Commission, (IEC) 60038 standard, to power and operate the CIS and non-CIS components.

SRS-262 All components of the electrical system shall comply with the EMC requirements as contained in the directives as applicable:

- 1) Directive 2014/30/EU of the European Parliament and of the Council
- 2) Council Directive 92/31/EEC
- 3) Council Directive 93/68/EEC
- 4) MIL-STD-461G

SRS-263 For all electrical installations and equipment, a formally recognised EC Certificate of Conformity shall be provided.

SRS-264 The low voltage system shall be designed and assembled according to IEC 61439 series.

SRS-265 In order to protect personnel against electrocution and minimize single points of failure in electrical installation, the Contractor shall provide and install adequate number and type of Residual Current Devices (RCDs) in compliance with IEC 61140:2016 and IEC 60364-4-41:2005+AMD1:2017 CSV.

SRS-266 The Contractor shall provide the external power outlet(s) required to provide UPS power to the components. These power outlets shall be protected by Earth Leakage Current Detectors/Circuit Breakers which shall conform to IEC 60364-7-717:2009. These outlets shall be clearly labelled to identify their purpose/function.

SRS-267 The Contractor shall provide and install surge protection devices (SPDs) to protect the electrical system from atmospheric voltage surges (lightning strikes), operating voltage surges, industrial surges and static discharges. The SPDs shall be in compliance with the following standards:

- 1) IEC 61643-11:2011

- 2) IEC 62305:2022 SER
- 3) IEC 61643-21:2000+AMD1:2008+AMD2:2012 CSV
- 4) IEC 61643-22:2015

SRS-268 The equipment shall not be damaged and the CIS equipment shall continue to operate as in normal conditions when subjected to the lightning waveforms conforming to STANAG 4370 edition 6, AECTP 250 - leaflet 254 atmospheric electricity and lightning.

SRS-269 The Lightning Protection System shall be in compliance with IEC 62305:2022 series.

SRS-270 Cabling, connectors and all other outdoor electrical equipment shall be compliant with the climatic conditions of utilisation.

SRS-271 The grounding system shall be designed to comply with TN-S grounding architecture.

SRS-272 In order to improve personal and equipment safety, an adequate grounding and bonding shall be assured through all the connected equipment.

SRS-273 The grounding system shall be compliant with IEC 60364 series.

[31] For reference on grounding MIL-HDBK-419A can be consulted.

SRS-274 Each grounding system shall be supplied with adequate number of grounding rods and a ground rod insertion/extraction tool (for example an extractor with lever).

SRS-275 The Contractor shall provide a measuring device for checking the earth resistance and effectiveness of grounding system for each MB-DSGT.

SRS-276 All electrically supplied CIS and non CIS equipment shall have ground connection through the supply cable (3 poles or 5 poles) and through a dedicated ground stud.

SRS-277 A personal grounding device (i.e. a grounding wristband compliant to IEC 61340-4-6:2015) shall be available for troubleshooting and manipulation of CIS equipment. Each CIS equipment shall be provided with a ground bonding point for the personal grounding of the operator.

SRS-278 European standards for wiring, including color codes, shall be fully applied throughout the system.

3.7 Environmental Requirements

SRS-279 All outdoor equipment (including cases), under any mode (operation, transport, storage and handling) , shall be capable of withstanding environmental conditions specified in this document, without suffering mechanical damages, degradation of functionality and IP (Ingress Protection) integrity of cases.

SRS-280 All outdoor equipment (including cases), under any mode (operation, transport, storage and handling), shall not permit water accumulation in pockets, creases, fissures or depressions that could cause structural damage upon freezing.

SRS-281 The design of cases and components to be housed in them shall assure that no active heating and cooling is required for transport, storage, handling.

SRS-282 All cases, when exposed to environmental conditions as defined in this document, shall assure that equipment housed in them operates (when required to operate inside the case) within respective manufacturer defined environmental specifications.

3.7.1 Temperature/ Temperature Shock/ Solar Radiation and Humidity

SRS-283 The system shall withstand the following temperature ranges:

- 1) Between -32 °C and +49 °C for operation
- 2) Between -34 °C and +71 °C for transport
- 3) Between -34 °C and +71 °C for storage and handling

SRS-284 The system shall withstand a solar radiation ranging up to 1,120 W/m² for operation, transport, storage and handling in the temperature conditions specified in the current section.

SRS-285 The system shall withstand the following change of temperature (temperature shock):

- 1) 13.4 °C/min during equipment switch-on and 0.12 °C/min for steady operation, based on the assumption that no pre-heating is available, and the equipment reaches an operational temperature of 35°C five minutes after being switched on at the lowest possible ambient temperature.
- 2) 0.12 °C/min for natural conditions during transport, storage and handling.

SRS-286 The equipment, in their storage/transport packaging if applicable, shall withstand an instantaneous temperature variation of 63 °C of the ambient temperature.

SRS-287 The system shall withstand humidity levels ranging from 5% to 100 % (saturation) for storage, transport, and handling, with the applicable change of temperature.

SRS-288 The system (excluding TFRS, indoor part of IFoFL and M&C Laptop) shall withstand humidity levels ranging from 5% to 100 % (saturation) for operation, with the applicable change of temperature.

3.7.2 Rain/ Hailstone/ Ice and Snow

SRS-289 The system shall withstand 2.38 mm/min of rain with peaks of 41.5 mm/min, for operation (outdoor equipment only), transport, storage and handling.

SRS-290 The system shall withstand 37 mm of ice for operation (outdoor equipment only), storage, and handling.

SRS-291 The outdoor equipment shall survive hailstones of up to 25 mm diameter and 0.9 g/cm³ density and 58 m/s terminal velocity during operation, transport, storage, handling. The Contractor shall indicate in his design documentation the consequences of such hailstorms and identify the parts and components which may be damaged during such severe hailstorms. The Contractor shall also indicate the specific procedures to be followed in order to avoid such damage immediately before and during such hailstorms, and list the expected necessary spares and tools aimed to repair the equipment.

SRS-292 The system shall withstand snow loads of 50 kg/m² for small devices, and of 100 kg/m² for large devices during operation (outdoor equipment only), transport, storage, and handling.

[32] For the purposes of the previous requirement, cases with their content are considered as the small devices. The antenna, when installed, is considered as the large device.

3.7.3 Water / Particles

SRS-293 The system shall meet the following IP ratings in compliance with IEC 60529:1989 and AMD1: 1999 and AMD2: 2013 CSV - Degrees of protection provided by enclosures (IP Code)

- 1) IP67 for operation, transport, storage and handling for outdoor cables and connectors
- 2) IP65 for transport, storage and handling for cases.
- 3) IP54 for outdoor antennas and associated electronics/mechanisms, when in operation, and IP 65 when in transport, storage and handling.

SRS-294 The system shall withstand the following size and concentration conditions for dust and sand:

- 1) Up to 2.0 g/m³ of 150 µm particles for operation (outdoor equipment only), transport, storage, and handling. Sedimentation rate as high as 2.0 g/m²/day for ODU.
- 2) Average particle hardness of 7 in the Mohs scale, occasionally reaching 9 on that scale.

SRS-295 A cover that protects each connector against mechanical or environmental damage (rain, dust, etc.) during transport or when not in use shall be fitted and permanently attached to all connectors.

3.7.4 Altitude/ Atmospheric Pressure

SRS-296 The system shall withstand the following altitudes:

- 1) 0 to 3000 m for operation
- 2) 0 to 12,000 m for transport
- 3) 0 to 3000 m for storage, and handling.

SRS-297 Within the context of the requirements for altitude, the system shall withstand atmospheric pressures ranging from 1,087 mbar to 503 mbar. (It is assumed that minimum atmospheric pressure on board (pressurized) transport aircraft shall be at least 503 mbar).

3.7.5 Salt Mist/Acidic Atmosphere

SRS-298 Material shall withstand:

- a) salt mist environments at severity level 4 of [IEC 60068-2-52:2017] for operation (outdoor equipment only), transport, storage and handling conditions;
- b) acidic atmosphere conditions for operation (outdoor equipment only), transport, storage and handling conditions:
 - 1) Severity
 - Three 2-hour spraying periods with 22 hours storage after each (as per MIL-STD-810G w/Change 1, 2014, method 518.2).
 - 2) Use a test solution containing 11.9mg (6 Pl) sulphuric acid (95-98 percent)/4 litres (4.23 qt) of solution, and 8.8mg (6 Pl) nitric acid (68-71 percent)/4 litres (4.23 qt) solution in distilled or deionized water.

3.7.6 Biological and Chemical (BC) Protection/ Contaminants

SRS-299 Material operating outdoor and conditioned in its cases shall withstand occasional contamination by exposure to the contaminant fluids listed in method 504.2 in MIL-STD-810G w/Change 1, 2014]. Selection of the test fluids listed in 504.2 which are representative of those commonly encountered during the life cycle shall be made. At the minimum following fluids shall be selected:

- 1) For Test Procedure 1:
 - Kerosene
 - Diesel
 - Gasoline
 - Propan-2-ol (isopropyl alcohol)
 - Denatured alcohol
 - De-icing & antifreeze fluids
 - Runway de-icers
 - Coolant dielectric fluid
 - Fire extinguishants
- 2) For test Procedure 2:
 - Turbine fuels (JP-8), kerosene types
 - Fuel oil diesel (DL-2) and other Grades

- Simulated sea water or 5% NaCl
- De-icers, Anti-Icing
- NBC Decontamination Kits

SRS-300 Material operating outdoor and conditioned in its cases shall withstand without substantial degradation limited contamination by the most relevant fungal species identified and listed in Table 1 of test method 308 [AECTP 300, Edition D, version 1, 2019], and shall manifest as:

- 1) Trace (scattered, sparse or very restricted microbial growth) for outdoor, shape performing equipment (such as antennas), unless it can be proven that mould growth does not impair device performance.
- 2) Light (intermittent manifestations or loosely spread microbial colonies on substrate surface. Includes continuous filamentous growth extending over the entire surface, but underlying surfaces are still visible) for outdoor exposed enclosures, cables and other non-shape performing-equipment.

SRS-301 While packaged for storage, handling, transport, material shall withstand without substantial degradation limited contamination by the same fungal species, and shall manifest as medium (substantial amount of microbial growth, substrate may exhibit visible structural change) growth severity.

[33] The purpose of the Biological and Chemical (BC) protection system is to stop aerosols and gases from entering the cases.

SRS-302 The system shall provide B/C protection when in storage, transport and non-operating modes.

SRS-303 The system shall also be capable of operating in a contaminated area induced by combat gases and aerosols. The contaminated area conditions shall apply to outdoor units and cases.

SRS-304 Decontamination of the outdoor units and cases shall be possible.

SRS-305 Following exposure to BC contamination, the system shall be able to be packed, transported and further operated after having been decontaminated in a benign area.

SRS-306 All outer surfaces of cases, antennas, cabling and other outdoor equipment exposed to B/C contamination shall be selected for their ability to withstand the effects of both contamination and decontamination.

SRS-307 Materials and auxiliary materials used in surfaces exposed to B/C contamination shall be resistant to BC (according to STANAG 4521 Edition 2) and decontamination agents.

SRS-308 Protection and selection of material guidance given in AEP-07 Edition 5, referred to in STANAG 4521 Edition 2, shall be used as guidance.

3.7.7 Wind

- SRS-309 Auto-tracking shall be possible without degradation of performance (up to 0.3 dB for X-band and up to 0.5 dB for Ka-band pointing losses from boresight) in wind conditions up to 10 km/h.
- SRS-310 Auto-tracking shall be possible (up to 0.5 dB for X-band and up to 0.8 dB for Ka-band pointing losses from boresight) in wind conditions up to 50 km/h with gusts up to 72 km/h.
- SRS-311 Auto-tracking shall be possible without damage, and within herein specified limits of pointing losses from boresight (up to 1.5 dB for X-band and up to 3.0 dB for Ka-band), for wind conditions up to 80 km/h with gusts up to 100 km/h.
- SRS-312 The antenna and its tracking system shall survive (deployed but non-operating, transport, storage, and handling) without damage, to wind conditions up to 96 km/h with gusts up to 120 km/h.
- SRS-313 The antenna system shall be capable of surviving, without damage, wind speeds of 150 km/h, gusting to 180 km/h after the operator carries out anchoring procedures to be specified by the Contractor.

3.7.8 Mechanical

- SRS-314 The system equipment shall withstand 30g, 11 ms, half-sine mechanical shocks for transport, storage, and handling.
- SRS-315 The system equipment shall withstand 5-20 Hz, 0.05g²/Hz and 20-150Hz -3dB/Oct (1.7g rms) random vibrations for transport, storage, and handling.
- SRS-316 The system equipment when packaged as designed during transportation, whether or not on pallets or platforms, when carried in aircraft, shall be restrained to the following minimum ultimate factors:
- 1) Forward 3.0g;
 - 2) Side 1.5g;
 - 3) Aft 1.5g;
 - 4) Vertical (up) 2.0g

Note: For reference, see STANAG 7213, Edition 1 and its associated ATP-3.3.4.1 Edition A, Version 1 (Tactics, Techniques and Procedures for NATO Air Movements).

- SRS-317 The system equipment shall withstand the following accelerations:
- 1) ≤ 10 g for transport
 - 2) ≤ 2 g for storage and handling

- SRS-318 The system equipment shall withstand a 30° face and corner drop and topple, for transport, storage, and handling.

SRS-319 The system equipment shall withstand the following free-fall conditions for transport, storage, and handling:

- 1) 1000 mm for items < 2 kg,
- 2) 500 mm for items < 5 kg,
- 3) 250 mm for items < 10 kg,
- 4) 100 mm for items < 50 kg,
- 5) 50 mm for items < 100 kg,
- 6) 25 mm for items < 250 kg

SRS-320 In addition, if the equipment is made part of a mechanical setup (e.g. a case), it shall withstand vertical free-falls of the complete assembly from up to 500 mm, when the equipment is properly mounted in its intended position.

3.7.9 Colour

SRS-321 The outdoor equipment shall be Chemical Agent Resistive Coating (CARC) coated in Dark Green (#34082) colour compliant with MIL-DTL-64159B standard (camouflage coating, water dispersible aliphatic polyurethane, chemical agent resistant).

SRS-322 The cases shall be coated in Dark Green (#34082) colour.

SRS-323 The coating shall meet requirements stipulated in STANAG 4360, Edition 3 (2012) and its associated AEPs:

- 1) AEP-64, Edition A, Version 1 (2012)
- 2) AEP-65, Edition A, Version 1 (2012)

SRS-324 Additional colour options (minimum of NATO Bronze Green (RAL6031) and Olive Drab) shall be made available so that a change (per operational requirements) could be made within a timeframe prior to product delivery.

3.7.10 Test Methods

SRS-325 The climatic and environmental tests shall include series of tests conducted in NATO country certified climatic chambers. Those tests shall include as a minimum:

- 1) High temperature
- 2) Low temperature
- 3) Change of temperature (temperature shock)
- 4) Solar radiation
- 5) Humidity
- 6) Ingress protection

- 7) Salt mist
- 8) Acidic atmosphere
- 9) Altitude, pressure

~~10) Combined stress testing~~

SRS-326 The mechanical tests shall include series of tests conducted in NATO country certified laboratory/testing plant. Those tests shall include as a minimum:

- 1) Shock
- 2) Vibration
- 3) Acceleration
- 4) Drop and topple
- 5) Free fall

SRS-327 Compliance to the above climatic and environmental requirements shall be demonstrated by the following test methods:

- 1) High temperature: MIL-STD-810G w/Change 1, 2014, method 501.6 or AECTP 300, Edition D, version 1, 2019, Method 302
- 2) Low temperature: MIL-STD-810G w/Change 1, 2014, method 502.6 or AECTP 300, Edition D, version 1, 2019, Method 303
- 3) Temperature shock: MIL-STD-810G w/Change 1, 2014, method 503.6 or AECTP 300, Edition D, version 1, 2019, Method 304
- 4) Solar radiation: MIL-STD-810G w/Change 1, 2014, method 505.6 or AECTP 300, Edition D, version 1, 2019, Method 305
- 5) Humidity: MIL-STD-810G w/Change 1, 2014, method 507.6 or AECTP 300, Edition D, version 1, 2019, Method 317
- 6) Rainfall: MIL-STD-810G w/Change 1, 2014, method 506.6 or AECTP 300, Edition D, version 1, 2019, Method 310
- 7) Ice: MIL-STD-810G w/Change 1, 2014, method 521.4 or AECTP 300, Edition D, version 1, 2019, Method 311
- 8) Sand and dust: MIL-STD-810G w/Change 1, 2014, method 510.6 or AECTP 300, Edition D, version 1, 2019, Method 313
- 9) Low pressure (altitude): MIL-STD-810G w/Change 1, 2014, method 500.6 or AECTP 300, Edition D, version 1, 2019, Method 301
- 10) Shock: MIL-STD-810G w/Change 1, 2014, method 516.7 or or AECTP 400, Edition D Version 1, 2019, Method 403 or IEC60068-2-27:2008

- 11) Vibration: MIL-STD-810G w/Change 1, 2014, method 514.7 or AECTP 400, Edition D, Version 1, 2019, Method 401 or IEC 60068-2-64:2008 +AMD1:2019 CSV
- 12) Acceleration: MIL-STD-810G w/Change 1, 2014, method 513.7 or IEC 60068-2-7:1983+AMD1:1986 CSV
- 13) Drop, topple and free fall: IEC 60068-2-31:2008
- 14) IP ratings: AECTP 300, Edition D, version 1, 2019, method 307 for immersion and IEC 60529:1989+AMD1:1999+AMD2:2013 CSV for other requirements
- 15) Salt mist: MIL-STD-810G w/Change 1, 2014, method 509.6, or IEC 60068-2-52:2017, or AECTP 300, Edition D, version 1, 2019, method 309
- 16) Acid atmosphere: MIL-STD-810G w/Change 1, 2014, method 518.2 or AECTP 300, Edition D, version 1, 2019, Method 319
- 17) Contamination by fluids: MIL-STD-810G w/Change 1, 2014, method 504.2 or AECTP 300, Edition D, version 1, 2019, Method 314
- 18) Mould growth (Fungus): AECTP 300, Edition D, version 1, 2019, Method 308.

Note: AECTP 300 and AECTP 400 are part of STANAG 4370, Edition 7.

SRS-328 Any piece of equipment (including cases) used to demonstrate compliancy to the above climatic and environmental tests shall not be part of the delivery.

3.8 EMI/EMC Requirements

[34] Electromagnetic Compatibility (EMC) is a measure of a device's ability to operate as intended in its shared operating environment while, at the same time, not affecting the ability of other equipment within the same environment to operate as intended.

[35] Electromagnetic interference (EMI), is a disturbance generated by an electrical device, an electronic device or natural sources that can adversely affect (by electromagnetic induction, electrostatic coupling, or conduction) the performance of other electrical or electronic device located within the same environment.

SRS-329 Individual subsystems and equipment shall meet interference control requirements (such as the conducted emissions, radiated emissions, conducted susceptibility, and radiated susceptibility requirements of MIL-STD-461G) so that the overall system complies with all applicable requirements of MIL-STD-464C. Compliance shall be verified by tests that are consistent with the individual requirement (such as testing in accordance with MIL-STD-461G).

SRS-330 Generation of interference by each item of equipment that could result in EMI and susceptibility to emanations from other units, shall be controlled by design provisions that limit undesired emissions and responses.

- SRS-331 This control of emanations and susceptibility shall apply to all the frequency ranges, including generated harmonics, spurious emissions, and susceptibilities, utilised by CIS equipments, when performing their intended function in all modes of operation. These modes shall include the normal communications configurations, as well as the test and maintenance configurations that may involve removal of units from their normal physical position.
- SRS-332 The materials and construction methods selected for the equipment shall provide inherent attenuation to electromagnetic emanation and susceptibility, to meet the EMI/EMC requirements of this project, without compromising other mechanical requirements imposed by other specifications.
- SRS-333 The Contractor shall ensure that the terminal is designed and manufactured so that the operational integrity and the performance of the terminal shall not suffer degradation due to EMI emanating from other equipment or generated by the terminal itself.
- SRS-334 The Contractor shall ensure that the terminal is designed and manufactured so that it shall not degrade or disrupt the operational integrity and performance of other equipment connected to the terminal or in proximity to the terminal due to electromagnetic emanations or electromagnetic incompatibility.
- SRS-335 All modules and their electronic components shall comply with MIL-STD-461G (Ground), dated Dec 2015 as follows:
- 1) Methods CE102 for conducted emissions (CE)
 - 2) Methods CS101, CS114, CS115, CS116 and CS118 for conducted susceptibility (CS)
 - 3) Methods RE102 for radiated emission (RE) (except TFRS and M&C laptop)
 - 4) Methods RS103 for radiated susceptibility (RS) (except TFRS and M&C laptop).
- SRS-336 The equipment shall comply with Directive 2014/30/EU of the European Parliament and of the Council, of 26 February 2014, on the harmonisation of the laws of the Member States relating to electromagnetic compatibility. In particular, CE marking shall be required, and the corresponding Test Report indicating the technical standards used for the verification shall be provided.

3.9 Safety Requirements

- [36] The Safe Failure Fraction (SFF) is the probability of the system failing in a safe state: the dangerous (or critical) state states are identified from Failure Mode, Effects and Criticality Analysis (FMECA) of the system.
- SRS-337 Functional safety shall be implemented as per IEC 61508 and compliance certification shall be presented to the Purchaser.
- SRS-338 RoHS-2 Directive [2011/65/EU] shall be applied to all system, subsystems and individual components of MB-DSGT. 2015/863 RoHS 2 amendment shall be applied for products placed on the market on or after 22 July 2019.

- SRS-339 Any rotating part such as fans, drive belts, etc., shall be protected to prevent accidental contact by and injury to any personnel during operation and maintenance.
- SRS-340 Projecting and overhanging edges shall be kept to a minimum.
- SRS-341 Edges and corners shall be rounded.
- SRS-342 When rounding of edges and corners is not possible, protective covers shall be applied.
- SRS-343 When protective covers are not possible or not reasonably practical for installation, sharp edges shall be marked with appropriate safety labels and marking.
- SRS-344 When packed, the system shall not include any protruding point which could either be damaged or damage persons or property during transportation.
- SRS-345 The Contractor shall design to ensure protection of the system and its operators against lightning and high potential discharge. Protection measures shall be compatible with the measures proposed for EMI/EMC as described in section 3.8.
- SRS-346 Lightning Conductors for the system shall be provided with all necessary ancillary components, including but not limited to cables, bus bars, ground rods, bolts, washers and cables to enable termination and the tools to hammer the rods in the ground and extract them.
- SRS-347 The grounding cable for Lightning Protection shall be minimum 10 metres long.
- SRS-348 All electric and electronic components / sub-systems shall be ruggedized.
- SRS-349 All connectors shall be ruggedized.
- SRS-350 All power cabling and electrical installations shall comply with European safety rules, including (but not limited to) IEC 61008, IEC 61009, IEC 60950 series, and IEC 60364.
- SRS-351 All cables shall have non-toxic, halogen-free, non-inflammable coating, applying IEC 60332, IEC 62821 series and IEC 60754.
- SRS-352 All electronic equipment shall be protected from electrostatic phenomena in accordance with IEC 61340 series.
- SRS-353 Wires and cables shall be placed, mounted and protected as to prevent contact with rough irregular surfaces and sharp edges and to prevent wear due to vibration.
- SRS-354 Insulating and sheathing compounds of all outdoor cables shall have minimum tensile strength of 12 N/mm² in compliance with IEC 60811-501:2012.
- SRS-355 For the dimensioning of the bending radius of power cables the regulations of VDE 0298, part 3 or equivalent shall be followed.
- SRS-356 All outdoor power and data cables shall be:
- 1) Water resistant,
 - 2) Rodent resistant,

- 3) Trampling resistant,
- 4) UV resistant according to EN 50289-4-17:2015 or its IEC, ISO equivalent.

SRS-357 All outdoor data cables, as minimum, shall meet following requirements:

- 1) Maximum tensile load during installation 1800N,
- 2) Maximum tensile load during operation 600N,
- 3) Impact resistance 200 impacts (EIA/TIA-455-25 military req.),
- 4) Crush resistance 440 N/cm (EIA/TIA-455-41 military req.),
- 5) Minimum bend radius 90 mm for installation and 45 mm for operation.

SRS-358 Cable harnesses shall be routed away from heat generating equipment and no wire or cable connection shall be in tension.

SRS-359 All soldered connections shall be clean and smooth in appearance and shall provide excellent electrical conductivity. The insulation of soldered wires shall not show damage from the heat of the soldering operation.

SRS-360 Dissimilar metals shall not be used in intimate contact unless suitably protected against electrolytic corrosion.

SRS-361 All conductors and appropriate hardware shall be rated for the electrical current carrying capacity in accordance with the applicable industry standards.

SRS-362 Safety markings and labels shall be provided identifying any potential hazards to personnel.

SRS-363 Safety markings shall be readily visible during peacetime operation and maintenance conditions, commensurate with the need for "camouflage" during operation or transportation during "crisis" or "wartime" conditions.

SRS-364 Appropriate notices and markings on equipment shall be provided with special reference to points where dangerous temperatures and voltages may be encountered and where precautions are to be taken against radiation hazards.

SRS-365 Appropriate notices and markings on equipment shall be provided with special reference to heavy equipment and specific handling guidance.

SRS-366 Warning markings shall be as permanent as the normal life expectancy of the equipment on which they are affixed and shall be placed as close as possible to the point of danger.

SRS-367 No hazardous materials (of any kind) shall be used in the construction of the equipment.

SRS-368 All matters of safety including but not limited to hot surfaces, mechanical hazards, electrical shocks and radiation hazards shall be fully and clearly addressed in the user operations and technical manuals.

3.10 Security Requirements

[37] The below requirements are valid for M&C Laptop.

SRS-369 Basic Input/Output System (BIOS) / Unified Extensible Firmware Interface (UEFI) shall be accessible only by authorized privileged users.

SRS-370 Security patching of BIOS/UEFI firmware shall be possible.

SRS-371 Security measures shall prevent unauthorized removable storage media being used on the M&C Laptop.

SRS-372 Protection against malicious code shall be deployed.

SRS-373 The anti-malware solution shall use more than signature based detection.

SRS-374 The content of removable storage media obtained from external CIS shall be checked for malware before it is made accessible to users or other services on M&C Laptop for the first time.

SRS-375 The authenticity and integrity of software and firmware shall be verified before installation.

SRS-376 The execution of applications shall be controlled in order to ensure authorized execution.

SRS-377 Bespoke applications handling NATO information shall be developed following a defined Secure Software Development Life Cycle process which ensures security is taken into account during the design, deployment, and operation phases of the application lifecycle.

SRS-378 Applications in scope of above requirement shall be developed to employ data input and output sanitisation controls.

SRS-379 Operating system and applications shall be approved by Security Accreditation Authority (SAA).

[38] Already approved Operating systems and applications can be found on the NATO Approved Field Product List (AFPL) (available upon request).

SRS-380 If a software not on the AFPL is foreseen to be used, the contractor shall undergo the NATO official process to have the tool added on AFPL and approved by SAA.

SRS-381 Software shall be used under following conditions:

- 1) Supported with security patches
- 2) Do not require an obsolete version of OS, libraries and dependencies to function

SRS-382 Up to date hardening guidance to Operating System (OS) and configurable applications shall be applied. NATO approved security configuration guides are available upon request.

SRS-383 Outside of appropriate security area or administrative zone, the M&C Laptop cryptographically shall protect the confidentiality of “data at rest”.

[39] For the appreciation of the above requirement, the Contractor will consult NATO Information Assurance Product Catalogue website.

SRS-384 Data loss prevention measures shall be undertaken to detect and prevent potential data breaches.

SRS-385 Users shall access M&C Laptop using multifactor authentication.

SRS-386 Authenticator feedback information shall be obscured from the user during the authentication process.

SRS-387 The M&C Laptop shall store only cryptographically protected passwords. Hashed passwords shall be salted with unique and unpredictable salt per password.

SRS-388 The Contractor shall harden credential stores and mechanisms (e.g. Windows 10 Enterprise use Microsoft Credential Guard).

SRS-389 Session lock shall be implemented after 15 minutes of inactivity.

SRS-390 The M&C Laptop shall enforce a limit of unsuccessful login attempts after which at least one of the following measures is implemented:

- 1) The account is throttled
- 2) The account or smartcard is locked
- 3) The account is blocked for a predefined time
- 4) The device is purged/wiped

SRS-391 The M&C Laptop automatically shall log account creation, modification, enabling and privilege elevation, disabling and removal.

SRS-392 The OS logs shall contain as a minimum:

- 1) Authentication events
- 2) File and object events
- 3) Export (e.g. upload) and import (e.g. download) events
- 4) User account events
- 5) Privilege user events

SRS-393 Log records shall contain as minimum:

- 1) Timestamp
- 2) Event, status and/or error codes
- 3) Service/command/application
- 4) Name/user(s) or system account(s) associated with an event

- 5) Device used (e.g. MAC address, source and destination IP address, web browser)

SRS-394 An authoritative time source for M&C Laptop shall be used. Only privileged user shall be able to change the system time.

SRS-395 Logs shall be protected from unauthorized access modification and deletion.

SRS-396 Logging records shall be kept either online or offline for 3 years.

SRS-397 The M&C Laptop shall have sufficient storage capacity (online supplemented by an offline archive) to meet the above requirement without the risk of over-writing required logging records.

Appendix A Applicable Documents

1. [NATO STANAG 5648] Interoperability of SHF SATCOM Terminals Standard, Ratification Draft or Latest Ratified Version at the Closing Date of IFB (NATO Unclassified).
2. [NATO STANAG 4370] Environmental Testing, Edition 7, 28 November 2019 (NATO Unclassified).
3. [AECTP 250, 2014] Electrical and Electromagnetic Environmental Conditions, Edition C, Version 1 (2014) - leaflet 254: Atmospheric electricity and lightning (NATO Unclassified).
4. [AECTP 400, 2019] Mechanical Environmental Tests, Edition D, Version 1 (NATO Unclassified).
5. [AECTP 300, 2019] Climatic Environmental Tests, Edition D, Version 1 (NATO Unclassified).
6. [2011/65/EU] RoHS-2 Directive of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment, 8 June 2011.
7. [2015/863/EU] RoHS-2 amendment - Commission Delegated Directive (EU) 2015/863 of 31 March 2015 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances.
8. [IEC 61508] Functional safety of electrical/electronic/programmable electronic safety-related systems.
9. [IEC 60038, 2009] IEC Standard Voltages.
10. [IEC 60529:1989, AMD1:1999 and AMD2:2013 CSV] Degrees of protection provided by enclosures (IP Code).
11. [IEC 60364 series] Low-voltage electrical installations.
12. [IEC 60364-4-41:2005+AMD1:2017 CSV] - Low voltage electrical installations - Part 4-41: Protection for safety - Protection against electric shock
13. [IEC 60364-7-717:2009] - Low-voltage electrical installations - Part 7-717: Requirements for special installations or locations - Mobile or transportable units
14. [IEC 61008 series] Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs).
15. [IEC 61009 series] Residual current operated circuit breakers with integral overcurrent protection for household and similar uses (RCBOs).
16. [IEC 60332:2020 SER] Tests on electric and optical fibre cables under fire conditions.
17. [IEC 60754 series] Test on gases evolved during combustion of materials from cables.
18. [DIN VDE 0298] Application of cables and Cords in Power Installations.
19. [ISO 11228-1:2003] Ergonomics -- Manual handling -- Part 1: Lifting and carrying.
20. [2014/30/EU] Directive of the European Parliament and of the Council on the harmonisation of the laws of the Member States relating to electromagnetic compatibility, 26 February 2014.
21. [93/68/EEC] Council Directive amending Directives 87/404/EEC (simple pressure vessels), 88/378/EEC (safety of toys), 89/106/EEC (construction products), 89/336/EEC (electromagnetic compatibility), 89/392/EEC (machinery), 89/686/EEC (personal protective equipment), 90/384/EEC (non-automatic weighing instruments), 90/385/EEC (active implantable medicinal devices), 90/396/EEC (appliances burning

- gaseous fuels), 91/263/EEC (telecommunications terminal equipment), 92/42/EEC (new hot-water boilers fired with liquid or gaseous fuels) and 73/23/EEC (electrical equipment designed for use within certain voltage limits), 22 July 1993.
22. [MIL-STD-188-164C] Interoperability of SHF SATCOM Terminals, USA Department of Defense Interface Standard, 16 November 2018.
 23. Recommendation ITU-R S.580-6, Radiation diagrams for use as design objectives for antennas of earth stations operating with geostationary satellites, 2004.
 24. [MIL-STD-461G] Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment, USA Department of Defense Interface Standard, 11 December 2015.
 25. [MIL-STD-464C] Electromagnetic Environmental Effects Requirements for Systems, USA Department of Defense Interface Standard, 1 December 2010.
 26. [MIL-STD-810G w/Change 1] Environmental Engineering Considerations and Laboratory Tests, USA Department of Defense Interface Standard, 15 April 2014.
 27. [MIL-HDBK-419A] Military Handbook, Grounding, bonding and shielding for electronic equipments and facilities, USA Department of Defense, 29 December 1987.
 28. [MIL-STD-1472G] Design Criteria Standard – Human Engineering, USA Department of Defense, 11 January 2012.
 29. [MIL-HDBK-338B] Electronic Reliability Design Handbook – USA Department of Defense, 1 October 1998.
 30. [EN 12195-1:2010] Load restraining on road vehicles. Safety . Calculation of securing forces.
 31. [EN-12195-2:2001] Load restraint assemblies on road vehicles. Safety. Web lashing made from man-made fibres.
 32. [AEP-31, 1994] Allied Engineering Publication, Edition 1, 1994: Reference Document of Colors for Disruptive Camouflage for Military Equipment In Use In NATO (NATO Unclassified).
 33. [IEC 60445:2021] - Basic and safety principles for man-machine interface, marking and identification - Identification of equipment terminals, conductor terminations and conductors
 34. [MD 2006/42/EC] - Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC
 35. [LVD 2014/35/EU] - Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits.
 36. [IEC 60947-5-5:1997+AMD1:2005+AMD2:2016 CSV] - Low-voltage switchgear and controlgear - Part 5-5: Control circuit devices and switching elements - Electrical emergency stop device with mechanical latching function.
 37. [IEC 60947-5-1:2016] - Low-voltage switchgear and controlgear - Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices.
 38. [ISO 13850:2015] - Safety of machinery — Emergency stop function — Principles for design.
 39. [IEC 60204-1:2016] - Safety of machinery - Electrical equipment of machines - Part 1: General requirements.
 40. [IEC 62040-1:2017/COR1:2019] Corrigendum 1 - Uninterruptible power systems (UPS) - Part 1: Safety requirements.

41. [IEC 62040-2:2016] Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements.
42. [IEC 62040-3:2011] Uninterruptible power systems (UPS) - Part 3: Method of specifying the performance and test requirements.
43. [IEC 62040-4:2013] Uninterruptible power systems (UPS) - Part 4: Environmental aspects - Requirements and reporting.
44. [ISO 3746:2010] Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Survey method using an enveloping measurement surface over a reflecting plane.
45. [ST/SG/AC.10/11/Rev.7] Manual of Tests and Criteria for Transport of Dangerous Goods – Seventh revised edition, United Nations, New York and Geneva, 2019
46. [IEC 61439 series] Low-voltage switchgear and controlgear assemblies.
47. [IEC 61140:2016] Protection against electric shock - Common aspects for installation and equipment.
48. [IEC 61643-11:2011] Low-voltage surge protective devices - Part 11: Surge protective devices connected to low-voltage power systems - Requirements and test methods.
49. [IEC 62305:2022 SER] Protection against lightning - ALL PARTS.
50. [IEC 61643-21:2000+AMD1:2008+AMD2:2012 CSV] Low voltage surge protective devices - Part 21: Surge protective devices connected to telecommunications and signalling networks - Performance requirements and testing methods.
51. [IEC 61643-22:2015] Low-voltage surge protective devices - Part 22: Surge protective devices connected to telecommunications and signalling networks - Selection and application principles.
52. [IEC 61340-4-6:2015] Electrostatics - Part 4-6: Standard test methods for specific applications - Wrist straps.
53. [IEC 60811-501:2012] Electric and optical fibre cables - Test methods for non-metallic materials - Part 501: Mechanical tests - Tests for determining the mechanical properties of insulating and sheathing compounds
54. [EN 50289-4-17:2015] Communication cables. Specifications for test methods - Test methods for UV resistance evaluation of the sheath of electrical and optical fibre cable
55. [IEC 60794-1-2:2021] Optical fibre cables - Part 1-2: Generic specification - Basic optical cable test procedures - General guidance
56. [STANAG 4521, Edition 2] AEP-7, Edition 5 (2012): Chemical, Biological, Radiological and Nuclear (CBRN) Contamination Survivability Factors in The Design, Testing and Acceptance of Military Equipment (NATO Unclassified).
57. [MIL-DTL-64159B] - Detail Specification: Camouflage Coating, Water Dispersible Aliphatic Polyurethane, Chemical Agent Resistant, 24 January 2011.
58. [IEC60068-2-27:2008] Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock.
59. [IEC60068-2-64:2008 +AMD1:2019 CSV] Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance.
60. [IEC 60068-2-7:1983+AMD1:1986 CSV] Basic environmental testing procedures - Part 2-7: Tests - Test Ga and guidance: Acceleration, steady state.
61. [IEC60068-2-31:2008] Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens.

62. [IEC60068-2-52:2017] Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution).
63. [IEC 60950 series] Information technology equipment – Safety.
64. [IEC 62821 series] Electric cables - Halogen-free, low smoke, thermoplastic insulated and sheathed cables of rated voltages up to and including 450/750 V.
65. [IEC 61340 series] Electrostatics.
66. [STANAG 4360, Edition 3, 2012] Specification for Paint Systems, Resistant to Chemical Agents and Decontaminants, for the Protection of Land Military Equipment (NATO Unclassified).
67. [AEP-64, Edition A, Version 1, 2012] Performance Requirements for Paint Systems Resistant to Chemical Agents and Decontaminants, for the Protection of Land Military Equipment (NATO Unclassified).
68. [AEP-65, Edition A, Version 1, 2012] Performance Requirements and Test Method for Paint Systems Resistant to Chemical Warfare Agents (NATO Unclassified).

Appendix B List of Acronyms

Acronym	Description
ACU	Antenna Control Unit
AECTP	Allied Environmental Conditions and Test Publication
AEP	Allied Engineering Publication
ASNMC	Advanced SATCOM Network Management and Control
CIS	Communications and Information System
COTS	Commercial Off The Shelf
DBAC	Deployable Baseband Augmentation Component
DCIS	Deployable Communications and Information System
DSGT	Deployable Satellite Ground Terminal
DTL	Detail
E_b/N_o	Energy-per-bit to Noise Power Density Ratio
EIRP	Effective Isotropic Radiated Power
EMC	Electromagnetic Compatibility
EMI	Electromagnetic Interference
EPM	Electronic Protection Measures
GPS	Global Positioning System
HDBK	Handbook
HMA	Hybrid Multi Application
IEC	International Electrotechnical Commission
IFB	Invitation For Bid
IFoFL	Interfacility over Fiber Link
ISO	International Organization for Standardization
LNA	Low-Noise Amplifier
LNB	Low-Noise Block
LRU	Line Replaceable Unit
MTBCF	Mean Time Between Critical Failures
NATO	North Atlantic Treaty Organization
ODU	Outdoor Unit
OMT	Ortho Mode Transducer
PFP	Purchaser Furnished Property

Acronym	Description
RMS	Root Mean Square
SATCOM	Satellite Communications
SHF	Super-High Frequency
SNMP	Simple Network Management Protocol
SRS	System Requirements Specification
STANAG	Standardization Agreement
TCP	Transmission Control Protocol
TSGT	Transportable Satellite Ground Terminal
UPS	Uninterruptible Power Supply
USNO	United States Naval Observatory
UTC	Universal Time Coordinated

Appendix C Required Data of the Terminals to Have Authorization for Satellite Access

Note that the below values shall be provided for all the operating frequency bands of the system;

Parameters	
1	Terminal Name (Manufacturer and Model):
2	Supportable Band(s) (of operation/frequency range) (GHz):
3	Description:
4	Antenna Type: (Mobile, VSAT, Parabolic, Phased array etc)
5	Antenna Diameter (m) to include Effective Elliptical Diameter for flat panel and elliptical antennas:
6	Antenna Efficiency (%):
7	Transmit Reference Frequency (MHz):
8	Reference frequency at which transmit antenna gain is determined (for X and mil-Ka band):
9	TX Antenna Gain at low (dBi):
10	TX Antenna Gain at medium (dBi):
11	TX Antenna Gain at high (dBi):
12	High Power Amplifiers (HPA) Type:
13	Is Linearizer fitted?
14	Is terminal designed to operate in linear or non- linear part of transfer characteristic?
15	High Power Amplifiers (HPA) Maximum Output Power (Watts):
16	High Power Amplifiers (HPA) Maximum Linear Output Power (Watts):
17	Output Backoff from Saturation Constraint (dB), if other than -3 dB from Saturated Power:
18	Identify if the HPA contains a power limiter that prevents operating at maximum output power:
19	Maximum Linear Effective Isotropic Radiated Power (EIRP) (dBW):
22	Transmit EIRP Spectral Density (ESD):
23	Receive Reference Frequency (MHz):

Required Data of the Terminals to Have Authorization for Satellite

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24	Reference frequency at which receive antenna gain is determined (for X and mil-Ka band):
25	RX Antenna Gain (dBi) - Low frequency
26	RX Antenna Gain (dBi) - Medium frequency
27	RX Antenna Gain (dBi) - High frequency
28	G/T (dB-K) at 10° elevation
29	G/T (dB-K) at 20° elevation
30	G/T (dB-K) at 30° elevation
31	LNA Noise Temperature (K):
32	Maximum Antenna Elevation Angle (deg):
33	Minimum Antenna Azimuth Angle (deg):
34	Tabular and graphical antenna gain pattern (Essential for all antenna with a = ≥50) data are required for both co- and cross-polarization (in decibels-isotropic (dBi)). State if the terminal will use a radome. If so, the pattern data must include radome effects.

The pattern data shall consist of the following:

- Pattern cut plots shall be provided for both transmit (uplink) and receive (downlink) frequencies
- Azimuth pattern cuts at low, mid, high frequencies from -180° to +180°
- Elevation pattern cuts at low, mid, and high frequencies from 0° to +90°
- Ka-band terminal azimuth and elevation pattern cuts shall be made for transmit and receive in both RHCP and LHCP polarizations
- X-band terminals are required to submit pattern cuts for RHCP transmit and receive LHCP receive only
- All tabular pattern cut data shall include angular step sizes no greater than 0.1°
- Tabular pattern cut data shall be presented as individual text files. These files shall be comma delimited and consist of two columns of data. The first column shall be the angular pointing in degrees with 0° equating to boresight. The second column shall be the gain of the antenna in dBi. No other information shall be contained within the file:
 - o XX = band (X or Ka)
 - o fff = frequency (low, mid, high in MHz)
 - o pppp = polarization (RHCP, LHCP)
 - o ll = Uplink or Downlink (ul, dl)
 - o dd = Azimuth or Elevation (az, el)
 - o cc = Co-polarization or Cross-polarization (co, cx)

Required Data of the Terminals to Have Authorization for Satellite

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Book II, Part IV, SOW – Annex A

35	TX and RX Axial Ratio Values. If the terminal will use a radome, Axial Ratio data must include radome effects:
36	Frequency stability (measured maximum frequency delta over 24 hours):
37	Terminal Transmit Polarization (Left-Hand Circular Polarization [LHCP]/Right-Hand Circular Polarization [RHCP]):
38	Terminal Transmit Cross- Polarization Isolation (dB). <i>Note: provide RHCP value for X-band terminals; provide both</i>
39	RHCP and LHCP values for Ka-band terminals:
40	Terminal Receive Polarization (LHCP/RHCP):
41	Terminal Receive Cross-Polarization Isolation Note: If the terminal uses a radome, data must include radome effects. Provide LHCP value for X-band terminals; provide both RHCP and LHCP values for Ka-band terminals (dB):
42	Isolation Loss (dB) (Terminal Specific):
43	Abnormal Atmospheric Loss (dB) (Usually none) (Terminal Specific):
44	Passive intermodulation and Intermodulation levels for multi carrier systems
45	Feed Loss (dB) (Terminal Specific):
46	HPA Stability: For any setting of the transmit gain and a constant IF input level, the EIRP in the direction of the satellite shall not vary more than +1.0 dB or -1.5 dB in any 24-hour period
47	Antenna Pointing Loss (dB) (Terminal Specific):
48	Radome Loss (dB) (Terminal Specific and if not included and identified in antenna patterns):
49	Harmonic Emissions (dBc) (Terminal Specific):
50	Transmit Spurious Emissions – In band and Out of Band (dBc) (Terminal Specific):

Required Data of the Terminals to Have Authorization for Satellite

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Provider	Name	Abbr	Version	Approval	High-Side	Low-Side	Approval Date
Microsoft	.NET Framework		4.7	APPROVED	NS/09095/2017 RSS/09112/2017	PAN/09096/2017	2017-11-15
Microsoft	.NET Framework		4.6.2	APPROVED	NS/09194/2017	NS/09194/2017	2017-11-15
Microsoft	.NET Framework		4.5.2	APPROVED	NS/09150/2017 NIATC/09153/2017 RSS/09151/2017	PAN/09152/2017	2017-11-07
Other	7-Zip		9.20	LATO	COI/03561/2012		2012-03-12
Acca	Acca Primus Unico Computo e Contabilita		10061785	APPROVED		PAN/06317/2014	2014-12-19
AccessData Group	AccessData Enterprise Examiner		7.4	APPROVED	CRQ430257	CRQ430257	2021-02-22
AccessData Group	AccessData Enterprise		6.5	APPROVED	NS/10000/2018 NIATC/09716/2018	PAN/10001/2018	2019-01-10
AccessData	AccessData Enterprise		7.5.1 SP1	LATO	CRQ456131	CRQ456131	2021-12-01
AccessData	AccessData Forensic Toolkit	FTK	5.6.1	APPROVED	NIATC/06883/2015	NIATC/06883/2015	2015-08-24
AccessData	AccessData Forensic Toolkit	FTK	7.5.2	LATO	CRQ467857	CRQ467857	2022-05-11
Fidelis	AccessData Resolution1 Known File Filter	KFF	5.6	APPROVED	NIATC/07042/2015	NIATC/07042/2015	2016-01-11
NATO	ACO Open Source System	AOSS	5.5	APPROVED	NS/09636/2018 RSS/09637/2018	PAN/09638/2018	2018-06-25
NATO	ACO Open Source System	AOSS	5.6	APPROVED	CRQ424448	CRQ424448	2021-03-31
NATO	ACO Open Source System	AOSS	5.6.1	APPROVED	CRQ442109	CRQ442109	2021-06-09
NATO	ACO Open Source System GEOCode	AOSS	1.5.1	APPROVED	NS/08610/2017 RSS/08611/2017	PAN/08612/2017	2017-02-27
NATO	ACO/ACT Mission Identification System Server	AMIS	2.1.3	APPROVED	CRQ407414	CRQ407414	2020-05-06
NATO	ACO/ACT Mission Identification System Server	AMIS	2.1.8	APPROVED	CRQ464688	CRQ464688	2022-03-23
NATO	ACO/ACT Mission Identification System Client	AMIS	2.1.7	APPROVED	CRQ434998	CRQ434998	2021-04-14
NATO	ACO/ACT Mission Identification System Client	AMIS	2.1.8	APPROVED	CRQ457694	CRQ457694	2022-02-09
Acronis	Acronis backup & Recovery		11	APPROVED	NIATC/06524/2014	NIATC/06524/2014	2015-01-23
NATION-USA	ActivClient CAC	CAC	6.2	APPROVED		PAN/06725/2015	2016-11-17
NATION-USA	ActivClient CAC x64	CAC	6.20.50	APPROVED		PAN/05349/2013	2013-08-02
Microsoft	Active Directory Federation Services	ADFS	2012 R2	APPROVED	NS/06625/2015	PAN/06624/2015	2015-03-11
Microsoft	Active Directory Federation Services	ADFS	2016	APPROVED	NS/08515/2016 RSS/08517/2016	PAN/08516/2016	2018-01-24
Acunetix	Acunetix Web Vulnerability Scanner		8.0.201208	APPROVED	NS/04458/2012 NIATC/05596/2013	PAN/05597/2013	2014-01-08
Cisco Systems	Adaptive Security Device Manager		7.14	APPROVED		CRQ433628	2021-05-05
Cisco Systems	Adaptive Security Device Manager		7.9	APPROVED		CRQ433630	2021-05-05
Add-On	Add-On Resource Central		4.2.23.4	APPROVED		CRQ472566	2022-07-20
Adobe	Adobe Acrobat DC Continuous	Acrobat	22.001.20117	APPROVED	CRQ467841	CRQ467841	2022-04-27
Adobe	Adobe Acrobat Reader DC		22.001.20117	APPROVED	CRQ467829	CRQ467829	2022-04-27
Adobe Systems	Adobe Captivate		8.0	APPROVED	NS/07022/2015	PAN/07023/2015 PAN/06794/2015	2015-06-26
Adobe Systems	Adobe Connect		10.6.1	LATO		CRQ417820	2020-09-17
Adobe Systems	Adobe Creative Suite 6 - Master Collection	CS	CS 6	APPROVED	NS/04526/2012 IS/06507/2014	PAN/04527/2012	2015-02-10
Adobe Systems	Adobe ILLUSTRATOR CC 2018		22.1	APPROVED	HS/10885/2019	LS/10886/2019	2019-09-03

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Adobe Systems	Adobe InDesign		CS 5.5	APPROVED	IS/03498/2011	PAN/03498/2011	2012-06-11
Adobe Systems	Adobe InDesign CC 2018		13.1	APPROVED	HS/10881/2019	LS/10882/2019	2019-08-09
Adobe Systems	Adobe PhotoShop		5.1	APPROVED	IS/03496/2011	PAN/03497/2011	2012-09-06
Adobe Systems	Adobe PhotoShop CC 2018		19.1.8	APPROVED	HS/10883/2019	LS/10884/2019	2019-09-03
Adobe	Adobe Robohelp		2020.08	APPROVED		CRQ472530	2022-07-20
NATO	Advisor Network	ANET	3.2.1	APPROVED	CRQ465883	CRQ465883	2022-05-19
NCIA	AIFS Integrated Messaging System	AIMS	4.0	APPROVED	NS/00037/2008		2004-08-01
NCIA	AIFS Integrated Messaging System	AIMS	5.0.1	APPROVED	HS/11488/2019		2020-03-11
NATO	Air Command and Control Information System	AIRC2IS	4.6.0	LATO	CRQ449690	CRQ449690	2021-10-06
NATO	Air Command and Control Information System	AIRC2IS	4.6.1	APPROVED	CRQ452706	CRQ452706	2021-11-24
NATO	Air Command and Control Information System	AIRC2IS	4.7.0.90856	LATO	CRQ471571		2022-07-06
Alcatel	Alcatel TCO Suite		4.4.0	APPROVED		PAN/06911/2015	2015-12-17
NATO	Allied Information Flow System	AIFS	20.1	APPROVED	NS/00035/2008		2007-08-01
Anaconda3	Anaconda3 2021-05		2021-05	APPROVED	CRQ445604	CRQ445604	2021-09-16
Google	Angular CLI		10.1.6	LATO	CRQ428138	CRQ428138	2022-02-23
Red Hat	ANSIBLE		2.12.7	APPROVED	CRQ472547	CRQ472547	2022-07-20
Anychart	Anychart		6.0.10	APPROVED	NS/04636/2012	PAN/04639/2012	2014-06-13
More4Apps	AP Invoice Wizard		10.3.30	APPROVED	CRQ456978	CRQ456978	2021-12-08
Apache	Apache Directory Studio		2.0	LATO	HS/11449/2019	LS/11448/2019	2020-01-27
Apache	Apache HTTP Server		2.4.51	APPROVED	CRQ452890	CRQ452890	2021-10-20
Apache	Apache Nifi		1.15.2	APPROVED	CRQ458647	CRQ458647	2022-02-09
Apache	Apache Tomcat	Tomcat	8.5.75	APPROVED	CRQ461658	CRQ461658	2022-02-16
Apache	Apache Tomcat	Tomcat	9.0.58	APPROVED	CRQ461661	CRQ461661	2022-02-16
NATION-USA	Approvelt eSign		6.6	APPROVED		PAN/05673/2013	2015-05-19
Esri	ArcGIS		10.7.1	APPROVED	CRQ442850	CRQ442850	2020-10-22
Esri	ArcGIS		10.8.1	APPROVED	CRQ423566	CRQ423566	2021-10-13
Esri	ArcGIS Explorer		10.0.1500	APPROVED	NS/02265/2010 IS/02266/2010		2010-12-17
Other	Archi		4.8.1	APPROVED	CRQ439784	CRQ439784	2021-06-16
Esri	ArcReader		10.1	APPROVED	NS/05715/2013 IS/05716/2013		2014-01-31
Hewlett-Packard	ArcSight Enterprise Security Management	ESM	6.5.0.1	APPROVED	NS/04484/2012 NIATC/05585/2013	PAN/04485/2012	2014-09-10
Hewlett-Packard	ArcSight Enterprise Security Management	ESM	6.9.1C	APPROVED	NIATC/07779/2016	NIATC/07779/2016	2017-07-04
Microfocus	ArcSight Enterprise Security Management	ESM	7.2.1	APPROVED	CRQ428268	CRQ428268	2021-09-29
Hewlett-Packard	ArcSight Interactive Discovery	AID	6.4.2	APPROVED	NIATC/06880/2015	NIATC/06880/2015	2015-12-03
Hewlett-Packard	ArcSight Logger		6.0	APPROVED	NIATC/06882/2015	NIATC/06882/2015	2015-12-04

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Microfocus	ArcSight Management Centre		2.9.4	APPROVED	CRQ428271	CRQ428271	2021-09-29
Microfocus	ArcSight SmartConnector		7.9	APPROVED	HS/10387/2019	LS/10388/2019	2019-02-07
Microfocus	ArcSight SmartConnector		7.14	LATO	CRQ436895	CRQ436895	2022-02-16
Microfocus	ArcSight SmartConnector		8.2.0	APPROVED	CRQ466923	CRQ466923	2022-05-03
Microfocus	ArcSight Console		7.2.1	APPROVED	CRQ428270	CRQ428270	2021-09-29
NATION-UK	ARRC Dataman		NA	APPROVED	NS/06262/2014 RSS/06609/2015		2015-01-29
Allied Command Transformation	Artificial Intelligence Front End Learning Execution Command Board	AI Felix CRB	1	APPROVED	CRQ443033		2021-07-07
Atlantis	Atlantis ilio Persistent VDI - Virtual storage appliance		4.1	APPROVED	NS/05759/2014		2014-04-22
Audacity	Audacity		1.2.6	APPROVED		PAN/01674/2010	2010-11-16
IDEMIA	Authentic Web Pack	AWP	5.3.7 SR1	APPROVED		CRQ447810	2021-10-06
Autodesk	AutoCAD		2014	APPROVED		PAN/05364/2013	2013-08-01
Autodesk	AutoCAD Design Suite		2016	APPROVED		PAN/07561/2016	2016-07-20
Autodesk	AutoCAD Full		2016	APPROVED		PAN/07563/2016	2016-07-20
Autodesk	AutoCAD LT		2018	APPROVED	NS/09297/2017	PAN/09298/2017	2018-03-14
NATO	Automated Personnel Management System	APMS	2.1.2	APPROVED	NS/09843/2018 RSS/09844/2018	PAN/09842/2018	2018-01-25
NATO	Automated Personnel Management System EBA interface	APMS	1.0	APPROVED	CRQ416310	CRQ416310	2021-01-18
AWStats	AWStats		6.8	APPROVED	NGC/00156/2008	NGC/00156/2008	2008-10-06
AWStats	AWStats		7.2	APPROVED	NS/05542/2013 IS/05543/2013	PAN/05544/2013	2013-12-03
Amazon Web Services	AWS Command Line Interface		2.1.29	APPROVED		CRQ434996	2021-05-19
Axis	AXIS Camera Station		3.54	APPROVED		PAN/04521/2012	2012-11-09
Axis	AXIS Camera Station		5.06	APPROVED		PAN/08478/2016	2017-07-17
Microsoft	Azure Data Studio		1.26.0	APPROVED	CRQ436440	CRQ436440	2021-05-12
Babylon	Babylon		10	APPROVED	NS/05184/2013	PAN/05185/2013	2013-07-16
Babylon	Babylon		8	APPROVED	NS/01637/2010	PAN/00854/2009	2009-06-18
BAE	BAE Datagate Data Pump Applications DFA, ETA, FTA, HAL		2.5.4	APPROVED	NS/04486/2012 NIATC/05586/2013	PAN/04487/2012	2014-12-08
Bamboo Solutions	Bamboo Cross-Site Display		19.12	APPROVED		CRQ469832	2022-06-22
Microsoft	Baseline Security Analyzer	MBSA	2.2	APPROVED	NS/02985/2011 IS/02980/2011	PAN/02986/2011	2011-11-03
Microsoft	BGinfo		4.15	APPROVED	NS/00965/2009	PAN/00964/2009	2009-07-30
Blackberry	Blackberry Enterprise Service		10	APPROVED		PAN/06354/2014	2015-07-08
Blancco	Blancco Drive Eraser		6.14.0	APPROVED	CRQ418216	CRQ418216	2020-12-10
BMC Software	BMC Atrium Discovery and Dependency mapping	ADDM	9.0	APPROVED	NS/04992/2013 IS/04993/2013	PAN/04995/2013	2013-08-01
BMC Software	BMC Footprints		2020.03.02	APPROVED		CRQ464174	2022-06-22
BMC Software	BMC Remedy IT Service Management Suite	ITSM	7.6.04	APPROVED	NS/05209/2013 IS/05210/2013	PAN/05211/2013	2013-11-06

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BMC Software	BMC Remedy IT Service Management Suite for Linux	ITSM	9.1.02	APPROVED	NS/08536/2017 NIATC/08647/2017 RSS/08638/2017	PAN/08646/2017	2017-10-25
BMC Software	BMC Remedy IT Service Management Suite for Windows	ITSM	9.1.03	APPROVED	NS/08536/2017 NIATC/08647/2017 RSS/08638/2017	PAN/08646/2017	2017-10-26
BMC Software	BMC Service Desk Express	SDE	10.2.3.51	APPROVED	NS/05477/2013 IS/05478/2013		2013-10-17
Bridgeways	Bridgeways		4	APPROVED	NS/08466/2016 RSS/08467/2016	PAN/08468/2016	2017-04-03
Brocade	Brocade 5300 FC Switch Management		6.3.2.B	APPROVED	NS/04488/2012 NIATC/05587/2013	PAN/04489/2012	2014-07-25
Brocade	Brocade Virtual Traffic Manager		17.2	APPROVED	NS/08793/2017 RSS/08794/2017	PAN/08795/2017	2017-10-20
NATION-ITA	C2I Difesa		1.0	APPROVED	NS/06196/2014 IS/06197/2014		2015-03-03
NATION-ITA	C2I Difesa Advanced		1.0.2	APPROVED	NS/07290/2015 RSS/07291/2015		2015-12-17
NCI Agency	C3 Integrated Master Plan	C3 IMP	1.0.1	APPROVED	CRQ420110		2021-10-13
Poseidon	C40 Integrator package		4.1	APPROVED	NS/03119/2011	NGC/03118/2011	2013-05-04
Broadcom	CA Application Delivery Analysis		11.1	APPROVED	CRQ428496	CRQ428496	2021-04-07
Computer Associates	CA Configuration Management System		2.0	APPROVED	NS/07039/2015 RSS/07040/2015	PAN/07041/2015	2015-12-17
Broadcom	CA Embedded Entitlements Manager		12.6	APPROVED	CRQ428618	CRQ428618	2021-04-07
Broadcom	CA Process Automation Manager		4.3	APPROVED	CRQ428613	CRQ428613	2021-04-07
Computer Associates	CA Spectrum		10.4.1	APPROVED	CRQ426956	CRQ426956	2020-12-14
Broadcom	CA Spectrum		20.2	APPROVED	CRQ430391	CRQ430391	2020-12-14
Cacti	Cacti		0.8.8 b	APPROVED	NS/04702/2013 NGC/04704/2013	PAN/04703/2013	2014-03-11
Microsoft	Calendar Printing Assistant		2010	APPROVED	NS/08952/2017	PAN/08953/2017	2017-07-25
Camtasia	Camtasia Studio		8.0	APPROVED	NS/04250/2012 IS/04251/2012	PAN/05853/2014	2012-09-06
Camunda	Camunda Community Edition		7.16	APPROVED		CRQ470218	2022-07-20
Canon	Canon imageWARE Management Console	IWMC	3.3	APPROVED	NS/07026/2015	PAN/07027/2015	2016-01-20
Canon	Canon imageWARE Management Console	IWMC	3.4.4	APPROVED	HS/11204/2019	LS/11205/2019	2020-08-10
Canon	Canon uniFLOW		5.3 SR4	APPROVED	NS/07024/2015	PAN/07025/2015	2016-01-20
NATO	Capability Development Software Synthesis	CDSS	2.0	APPROVED	NS/09143/2017	PAN/09144/2017	2017-12-13
Obeo	Capella		1.4.0	APPROVED		CRQ422138	2021-01-07
NCIA	Cast+		1.0	APPROVED	NS/00041/2008		2003-08-01
NCIA	CCP Management System	CAMS	1.2	APPROVED	NS/01898/2010		2010-12-09
CCTA	CCTA Risk Analysis and Management Method	CRAMM	5.4	APPROVED	NS/01323/2009		2010-02-08
NATO	Centralised NATO Automated Financial System	CNAFS	3.0	APPROVED		PAN/01618/2010	2011-02-23
Centreon	Centreon Enterprise Server	CES	2.5.4	APPROVED		PAN/06830/2015	2015-08-06
Centreon	Centreon Enterprise Server	CES	2.8.26	APPROVED		LS/10750/2019	2019-10-15
Check Point Software Technologies	Checkpoint Firewall		R65	APPROVED	NS/00402/2008	PAN/00403/2008	2008-12-10
Check Point Software	Checkpoint Firewall		R77.20	APPROVED	NS/06811/2015 RSS/06813/2015	PAN/06812/2015	2015-11-09

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Technologies				ED			
Check Point Software Technologies	Checkpoint Firewall		R77.30	APPROVED	NS/09299/2017 RSS/09300/2017 NGC/09302/2017	PAN/09301/2017	2018-04-19
Check Point	Checkpoint Firewall		R80.40	APPROVED	CRQ422670	CRQ422670	2021-11-03
Bruhn NewTech	Chemical, Biological, Radiological and Nuclear Analysis	CBRN	19.0	APPROVED	HS/11495/2019	LS/11496/2019	2019-12-09
Bruhn NewTech	Chemical, Biological, Radiological and Nuclear Analysis	CBRN	21.0/A	APPROVED	CRQ437690	CRQ437690	2021-09-23
Bruhn NewTech	Chemical, Biological, Radiological and Nuclear Analysis	CBRN	22.0/A	APPROVED	CRQ473160	CRQ473160	2022-08-03
Cisco Systems	Cisco (ASA) 5500 Series Adaptive Security Appliances IOS	ASA IOS	9.1	APPROVED		CRQ4333625	2021-04-14
Cisco Systems	Cisco (ASA) 5500 Series Adaptive Security Appliances IOS	ASA IOS	9.12	APPROVED		CRQ4333621	2021-04-14
Cisco Systems	Cisco Adaptive Security Appliance	ASA	9.15	APPROVED		CRQ468606	2022-05-25
Cisco Systems	Cisco Access Control System	ACS	5.8.1	APPROVED	NS/08985/2017 RSS/08986/2017 NGC/08988/2017	PAN/08987/2017	2017-11-15
Cisco Systems	Cisco AnyConnect	ACS	4.9	APPROVED		CRQ433581	2021-04-14
Cisco Systems	Cisco AnyConnect	ACS	4.10	APPROVED		CRQ444347	2021-07-14
Cisco	Cisco DataCenter Network Manager (DCNM)	DCNM	11.5(1)	APPROVED	CRQ447483	CRQ447483	2021-11-17
Cisco Systems	Cisco Firepower Management Center and Sensors		6.2.0.3	APPROVED	NIATC/09044/2017	NIATC/09044/2017	2017-12-04
Cisco Systems	Cisco FirePower Management Center		6.4.0.12	APPROVED	CRQ446668	CRQ446668	2021-09-16
Cisco Systems	Cisco FirePower		6.4.0	lato	CRQ424168	CRQ424168	2022-02-23
Cisco Systems	Cisco Identity Services Engine	ISE	2.6	APPROVED	CRQ408144	CRQ408144	2020-11-17
Cisco Systems	Cisco IOS	IOS	3.16	APPROVED	CRQ403174	CRQ403174	
Cisco Systems	Cisco IOS for use on Cisco Catalyst 2950 Series Switches	IOS	12.1(22)EA14a	APPROVED	NS/03722/2012 IS/03724/2012 NGC/03721/2012	PAN/03723/2012	2012-07-05
Cisco Systems	Cisco IOS for use on Cisco Catalyst 2960 Series Switches	IOS	12.2(55)SE10	APPROVED	NS/07580/2016 RSS/07581/2016 NGC/07583/2016	PAN/07582/2016	2016-08-11
Cisco Systems	Cisco IOS for use on Cisco Catalyst 2960S Series Switches	IOS	12.2(55)SE10	APPROVED	NS/07584/2016 RSS/07585/2016 NGC/07587/2016	PAN/07586/2016	2016-08-11
Cisco Systems	Cisco IOS for use on Cisco Catalyst 3560 Series Switches	IOS	12.2(55)SE10	APPROVED	NS/07600/2016 RSS/07601/2016 NGC/07603/2016	PAN/07602/2016	2016-08-11
Cisco Systems	Cisco IOS for use on Cisco Catalyst 3560E Series Switches	IOS	12.2(55)SE10	APPROVED	NS/07592/2016 RSS/07593/2016 NGC/07595/2016	PAN/07594/2016	2016-08-11
Cisco Systems	Cisco IOS for use on Cisco Catalyst 3750 Series Switches	IOS	12.2(55)SE10	APPROVED	NS/07604/2016 RSS/07605/2016 NGC/07607/2016	PAN/07606/2016	2016-08-12
Cisco Systems	Cisco IOS for use on Cisco Catalyst 3750E Series Switches	IOS	12.2(55)SE10	APPROVED	NS/07596/2016 RSS/07597/2016 NGC/07599/2016	PAN/07598/2016	2016-08-12
Cisco Systems	Cisco IOS for use on Cisco 3400 Metro Ethernet Series Switches	IOS	12.2(55)SE10	APPROVED	NS/07588/2016 RSS/07589/2016 NGC/07591/2016	PAN/07590/2016	2016-08-09
Cisco Systems	Cisco IOS for use on Cisco Catalyst 6500-E Series switches in a Virtual Switching	IOS	12.2(33).SXJ5	APPROVED		PAN/05350/2013	2013-07-18
Cisco Systems	Cisco IOS for use on Cisco 1841 Series Router	IOS	15.1(4)M9	APPROVED	NS/06657/2015 NGC/06659/2015	PAN/06658/2015	2015-08-21
Cisco Systems	Cisco IOS for use on Cisco 1900 Series Router	IOS	15.1(4)M9	APPROVED	NS/06660/2015 NGC/06662/2015	PAN/06661/2015	2015-08-21
Cisco Systems	Cisco IOS for use on Cisco 2800 Series Router	IOS	15.1(4)M9	APPROVED	NS/06663/2015 RSS/06664/2015 NGC/06666/2015	PAN/06665/2015	2015-08-11
Cisco Systems	Cisco IOS for use on Cisco 2801 Series Router	IOS	15.1(4)M9	APPROVED	NS/06667/2015 RSS/06668/2015 NGC/06670/2015	PAN/06669/2015	2015-08-11
Cisco Systems	Cisco IOS for use on Cisco 2900 Series Router	IOS	15.1(4)M9	APPROVED	NS/06671/2015 RSS/06672/2015 NGC/06674/2015	PAN/06673/2015	2015-08-24
Cisco Systems	Cisco IOS for use on Cisco 3825 Series Router	IOS	15.1(4)M7	APPROVED	NS/05755/2014 IS/05756/2014 NGC/05758/2014	PAN/05757/2014	2014-02-03

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Cisco Systems	Cisco IOS for use on Cisco 3825 Series Router	IOS	15.1(4)M9	APPROVED	NS/06675/2015 RSS/06676/2015 NGC/06678/2015	PAN/06677/2015	2015-08-24
Cisco Systems	Cisco IOS for use on Cisco 3845 Series Router	IOS	15.1(4)M7	APPROVED	NS/05760/2014 IS/05761/2014 NGC/05763/2014	PAN/05762/2014	2014-02-03
Cisco Systems	Cisco IOS for use on Cisco 3845 Series Router	IOS	15.1(4)M9	APPROVED	NS/06679/2015 RSS/06680/2015 NGC/06682/2015	PAN/06681/2015	2015-08-24
Cisco Systems	Cisco IOS for use on Cisco 3900 Series Router	IOS	15.1(4)M9	APPROVED	NS/06683/2015 RSS/06684/2015 NGC/06686/2015	PAN/06685/2015	2015-08-11
Cisco Systems	Cisco IOS for use on Cisco 3900E Series Router	IOS	15.1(4)M9	APPROVED	NS/06687/2015 RSS/06688/2015 NGC/06690/2015	PAN/06689/2015	2015-08-11
Cisco Systems	Cisco IOS for use on Cisco 7200 Series NPE-G1 Router	IOS	15.1(4)M9	APPROVED	NS/06814/2015 RSS/06815/2015 NGC/06817/2015	PAN/06816/2015	2015-08-24
Cisco Systems	Cisco IOS for use on Cisco 7200 Series NPE-G2 Router	IOS	15.1(4)M9	APPROVED	NS/06818/2015 RSS/06819/2015 NGC/06821/2015	PAN/06820/2015	2015-08-24
Cisco Systems	Cisco IOS for use on Cisco Catalyst 3650 Series Switches	IOS	15.2(2)E3	APPROVED	NS/07608/2016 RSS/07609/2016 NGC/07611/2016	PAN/07610/2016	2016-08-09
Cisco Systems	Cisco IOS for use on Cisco Catalyst 3850 Series Switches	IOS	15.2(2)E3	APPROVED	NS/07612/2016 RSS/07613/2016 NGC/07615/2016	PAN/07614/2016	2016-08-10
Cisco Systems	Cisco IOS for use on Cisco Catalyst Switches	IOS	15.2.7	APPROVED	CRQ405175	CRQ405175	2020-10-22
Cisco Systems	Cisco IOS for Catalyst 3750	IOS	15.2.4E10 MD	APPROVED	CRQ473213	CRQ473213	2022-07-27
Cisco Systems	Cisco IOS for Catalyst 3850	IOS	16.12.7 MD	APPROVED	CRQ473215	CRQ473215	2022-07-27
Cisco Systems	Cisco IOS for Catalyst 6500	IOS	15.5.1-SY9MD	APPROVED	CRQ473216	CRQ473216	2022-07-27
Cisco Systems	Cisco IOS	IOS	16.9.4	APPROVED	HS/11739/2020	LS/11740/2020	2020-04-29
Cisco Systems	Cisco IOS	IOS	16.12.4	APPROVED	CRQ418257	CRQ418257	2020-09-28
Cisco Systems	Cisco IOS	IOS	15.7.3M	APPROVED	HS/11468/2019	LS/11469/2019	2020-04-29
Cisco Systems	Cisco IOS for ISR 4221 - 4300 - 4431 - 4451x - 4461 -1000 / ASR 1000 Series (RP2) - 1001 HX - 1002 HX - 1001X - 1002x / CAT 9300/9400/9500/9600/9800 series	IOS	17.3.x	APPROVED	CRQ456503	CRQ456503	2021-12-15
Cisco Systems	Cisco IOS-XE for ASR1000 Series	IOS	3.16.10S	APPROVED	CRQ459591	CRQ459591	2022-02-09
Cisco Systems	Cisco IOS-XE for ASR1000 Series	IOS	15.3(3)S	APPROVED	NS/05652/2013 IS/05653/2013 NGC/05655/2013	PAN/05654/2013	2014-02-03
Cisco Systems	Cisco IOS-XE	IOS	17.3.5	APPROVED	CRQ463332	CRQ463332	2022-03-09
Cisco Systems	Cisco IOS-XE	IOS	17.6.x	APPROVED	CRQ458195	CRQ458195	2022-02-09
Cisco Systems	Cisco IOS-XR		7.2.2	APPROVED		CRQ466730	2022-04-20
Cisco Systems	Cisco NX-OS for use on Cisco Nexus 3000 9300 9500 Series Switches	NX-OS	9.3.4	APPROVED	CRQ428273	CRQ428273	2021-10-20
Cisco Systems	Cisco NX-OS for use on Cisco Nexus 5000 Series Switches	NX-OS	6.0(2)N2(7)	APPROVED	NS/07870/2016 NGC/07872/2016	PAN/07871/2016	2016-08-09
Cisco Systems	Cisco NX-OS for use on Cisco Nexus 6000 Series Switches	NX-OS	6.0(2)N2(7)	APPROVED	NS/07873/2016 NGC/07875/2016	PAN/07874/2016	2016-08-09
Cisco Systems	Cisco NX-OS for use on Cisco Nexus 6000 Series Switches	NX-OS	7.3(7)N1	APPROVED	CRQ436205	CRQ436205	2021-04-28
Cisco Systems	Cisco NX-OS for use on Cisco Nexus 7000 Series	NX-OS	6.2.16	APPROVED	CRQ453950	CRQ453950	2021-11-03
Cisco Systems	Cisco NX-OS	NX-OS	9.3.8	APPROVED	CRQ463638	CRQ463638	2022-03-16
Cisco Systems	Cisco NX-OS	NX-OS	9.3.9	APPROVED	CRQ463640	CRQ463640	2022-03-16
Cisco Systems	Cisco Packet Tracer		7.3.0	APPROVED	CRQ413305	CRQ412371	2020-07-23
Cisco Systems	Cisco Paging Server		11.5	APPROVED	NGC/08817/2017	PAN/08816/2017	2017-12-20
Cisco Systems	Cisco Prime Collaboration	CPC	12.4	APPROVED	NS/09401/2018 RSS/09433/2018 NGC/09399/2018	PAN/09400/2018	2018-04-10
Cisco Systems	Cisco Prime Collaboration Deployment	PCD	11.5	APPROVED	NS/08818/2017 RSS/08819/2017 NGC/08821/2017	PAN/08820/2017	2017-08-09

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Cisco Systems	Cisco Prime Collaboration Deployment		14.0	APPROVED	CRQ452770	CRQ452770	2022-06-29
Cisco Systems	Cisco Prime Infrastructure		3.2	APPROVED	NS/08931/2017	PAN/08932/2017	2017-12-20
Cisco Systems	Cisco Prime LAN Management Solution	LMS	4.1	APPROVED	NS/03044/2011	PAN/02984/2011	2012-03-07
Cisco Systems	Cisco Prime License Manager	PLM	11.5	APPROVED	NS/08822/2017 RSS/08823/2017 NGC/08825/2017	PAN/08824/2017	2017-08-09
Cisco	Cisco Smart Software Management On-Prem	SSM On-Prem	v8 Release 202201	APPROVED	CRQ461554	CRQ461554	2022-03-09
Cisco Systems	Cisco TelePresence SX Series		7.3.15	APPROVED	NS/09949/2018 RSS/09950/2018	NGC/09951/2018	2019-05-24
Cisco	Cisco Unified Communication Contact Center Express Editor	UCCX Editor Tool	11.5	APPROVED		CRQ452122	2021-11-03
Cisco	Cisco Unified Communication Contact Center Express Editor	UCCX Editor Tool	12.5	APPROVED		CRQ457427	2021-12-15
Cisco Systems	Cisco Unified Communication Manager	CUCM	11.5	APPROVED	NS/08806/2017 RSS/08807/2017 NGC/08808/2017	PAN/08809/2017	2017-08-09
Cisco Systems	Cisco Unified Communication Manager	CUCM	12.5.1 SU2	APPROVED	CRQ409524	CRQ409524	2021-07-20
Cisco Systems	Cisco Unified Communication Manager	CUCM	11.5.1.22900-28	APPROVED	CRQ457907	CRQ457907	2022-01-05
Cisco	Cisco Unified Contact Center Express	UCCX	11.5	APPROVED	NGC/08815/2017	PAN/08814/2017	2017-09-27
Cisco	Cisco Unified Contact Center Express	UCCX	11.6.2	APPROVED		CRQ456935	2021-12-15
Cisco	Cisco Unified Real Time Monitoring Tool		11.5	APPROVED	CRQ452154	CRQ452154	2021-11-03
Cisco Systems	Cisco Unified Real Time Monitoring Tool		12.5	APPROVED		CRQ439429	2021-05-05
Cisco Systems	Cisco Unity Connection	CUC	10.5.2	APPROVED	NS/07356/2015 NGC/07358/2015	PAN/07357/2015	2017-06-27
Cisco Systems	Cisco Unity Connection	CUC	11.5	APPROVED	NS/08810/2017 RSS/08811/2017 NGC/08812/2017	PAN/08813/2017	2017-08-09
Cisco Systems	Cisco Unity Connection	CUC	12.5	APPROVED		CRQ421404	2021-11-18
Cisco Systems	Cisco Unity Connection	CUC	11.5.1.22900-28	APPROVED		CRQ457909	2022-01-05
Citrix	Citrix Receiver Enterprise		3.4	APPROVED		PAN/05612/2013	2014-06-13
Citrix	Citrix Workspace App		1903	LATO		LS/10880/2019	2019-09-19
Citrix	Citrix Workspace App		LTSR 19.12	APPROVED		CRQ439191	2021-12-08
NATO	Coalition Shared Data Services	CSD Services	3.0	APPROVED	CRQ428602		2021-02-11
NATO	Coalition Shared Data Services	CSD Services	3.2	APPROVED	CRQ454446		2022-01-19
NATO	Coalition Shared Data Services	CSD Services	3.2.1	APPROVED	CRQ466641		2022-05-03
NATO	Coalition Shared Data Services	CSD Services	3.3.1	APPROVED	CRQ469575	CRQ469575	2022-06-22
NATION-ESP	Coalition Shared Database ESP		1.1	APPROVED	NS/07426/2015		2016-01-11
NATION-ITA	Coalition Shared Database ITA	ITA CSD-B1	1.0.0.0	APPROVED	NS/07008/2015		2015-08-13
NATION-ITA	Coalition Shared Database ITA	ITA CSD-B1	1.1.0.0	APPROVED	NS/07802/2016		2016-05-20
Dynamis	COBRA		4.4.3	APPROVED	NS/04738/2013	PAN/04739/2013	2013-07-25
Northrop Grumman	Command and Control for PC	C2PC	6.1 R3	APPROVED	NS/00050/2008		2007-10-01
Northrop Grumman	Command and Control for PC	C2PC	6.1 R6 U6	APPROVED	NS/06332/2014		2015-03-27

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RICOH	Command Workstation		5.0	APPROVED	NS/02307/2010		2011-03-15
Conduvis technologies	Conduvis V-LOCITY		4.0	APPROVED	NS/04667/2012	PAN/04666/2012	2013-03-06
Atlassian	Confluence		7.5.1	APPROVED	CRQ411351	CRQ411351	2021-03-31
Atlassian	Confluence		7.13.7	APPROVED	CRQ470782	CRQ470782	2022-06-09
NATO	Contract Data Requirement List		2.1	APPROVED		CRQ422135	2021-01-19
Controlware	Controlware Citam Terminal Adaptor		NA	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Prologic	COMSEC Accounting, Reporting and Distribution System	CARDS	5.4.18	LATO	CRQ466957		2022-04-20
SharePoint Products	CopyMove for SharePoint 2007		1.2.12.362	APPROVED	NS/05888/2014		2014-04-22
SharePoint Products	CopyMove for SharePoint 2013		3.14.0	APPROVED	HS/10978/2019		2019-07-25
Genpact Digital	Cora Sequence		9.7.1	APPROVED	CRQ446506	CRQ446506	2022-04-13
NATO	COREGIS	COREGIS	2.2.0	APPROVED	NS/06521/2014 IS/06522/2014		2015-01-29
NATO	COREGIS	COREGIS	3.0.2	APPROVED	NS/09743/2018 RSS/09744/2018		2019-02-13
COREL	Coreldraw Graphics Suite		X6	APPROVED	NS/03918/2012		2012-06-11
COREL	Coreldraw Graphics Suite		X7	APPROVED	NS/06024/2014	PAN/06025/2014	2014-06-12
COREL	Coreldraw Graphics Suite		2020	APPROVED	CRQ413815	CRQ413815	2020-11-05
Cormant Technologies	Cormant-CS		10.1.3	APPROVED	HS/10837/2019		2019-12-02
Cormant Technologies	Cormant-CS		10.1.3	APPROVED		LS/11692/2020	2020-07-24
Cormant Technologies	Cormant-CS		11.3.2	LATO	CRQ472109	CRQ472109	2022-07-06
NATO	CRC System Interface	CSI	18.3	APPROVED	NS/10089/2018		2019-05-13
NATO	CRC System Interface	CSI	18.3 R21B	APPROVED	CRQ461258		2022-02-09
NATO	CRC System Interface	CSI	18.5B	APPROVED	CRQ426905		2021-10-13
NATO	CRC System Interface	CSI	18.5 R23C	APPROVED	CRQ456775		2021-12-01
NATO	CRC System Interface	CSI	18.5 R23D	APPROVED	CRQ458210		2022-01-19
NATO	CRC System Interface	CSI	18.6 R24A	APPROVED	CRQ456776		2022-01-19
NATO	CRC System Interface	CSI	18.6 R24B	APPROVED	CRQ461254		2022-02-09
NATO	CRC System Interface	CSI	18.6 R24C	APPROVED	CRQ471169		2022-06-15
Crestron	Crestron CP3		NA	APPROVED	NS/04827/2013 IS/04828/2013 NGC/04831/2013	PAN/04830/2013	2014-07-16
Crestron	Crestron Fusion Room View		10.0.0010.578 SP1	APPROVED	NS/07359/2015	PAN/07360/2015	2016-06-23
NATO	CSD-GIS- Connector	CGC	1.0.0	LATO	CRQ464646		2022-03-23
Microsoft	Custom Dictionary		1.0	APPROVED	NS/01988/2010 IS/01989/2010	PAN/01990/2010	2010-08-26
NCIA	Cyber Defence Situational Awareness	CDSA	1.0.0	APPROVED	NIATC/10117/2018	NIATC/10117/2018	2019-03-14
Other	Cyber Information and Incident Coordination System	CIICS	3.1.9	APPROVED	NS/10120/2018 NIATC/10121/2018	NIATC/09320/2018	2019-03-05
NATO	Cybertrans		10.9.10	LATO	COI/02059/2010		2010-11-04
Oracle	Data Entry Tool for Air Command and Control System (ACCS) Loc 1	ACCS	3.2	APPROVED	NS/03142/2011		2012-05-02

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Microsoft	Database Experimentation Assistant		2.6	APPROVED	CRQ437905	CRQ437905	2021-05-12
Microsoft	Database Migration Assistant	DMA	5.2	APPROVED	CRQ437918	CRQ437918	2021-05-12
NATO	Data-Centric Information Services Gateway	DISG	4.2.2	APPROVED	CRQ438700		2021-05-19
NATO	Data-Centric Information Services Gateway	DISG	4.3	APPROVED	CRQ458238		2022-04-13
DataLoad	DataLoad Classic		5.5.0.0	APPROVED		CRQ452127	2021-10-13
Datapath	Datapath Video Wall		10 - v1.11.0	APPROVED	CRQ428240		2022-01-19
Chrissy LeMaire	DBA Tools		1.0.0	APPROVED	CRQ452079	CRQ452079	2021-10-20
NATION-USA	DBSign		3.0	APPROVED		PAN/01128/2009	2009-09-30
Dell	Dell Avamar		19.4	APPROVED	CRQ439677	CRQ439677	2022-03-09
Dell	Dell Command Monitor		10.x	APPROVED	CRQ435488	CRQ435488	2021-03-15
Dell	Dell Command Update		4.x	APPROVED	CRQ435487	CRQ435487	2021-03-15
Dell	Dell Data Domain Boost		3.5.0.1	LATO	CRQ415973	CRQ415973	
Dell	Dell Data Domain Boost		7.2	APPROVED	CRQ461570	CRQ461570	2022-05-11
Dell	DELL EMC Connectrix DS6620B		8.2.2b	APPROVED	CRQ428274	CRQ428274	2022-01-05
Dell	Dell EMC Data Domain		7.2.0.85	APPROVED	CRQ461567	CRQ461567	2022-05-11
Dell	Dell EMC OpenManage Server Administrator		9.5.0	LATO	CRQ456078	CRQ456078	2021-12-01
DELL EMC	Dell EMC Powerstore OS		2.0	APPROVED	CRQ445188	CRQ445188	2021-08-25
Dell EMC	Dell EMC Unity Operating Environment		5.1	APPROVED	CRQ451851	CRQ451851	2021-10-27
DELL EMC	Dell EMC XtremIO OS 4.0		4.0	APPROVED	CRQ412610	CRQ412610	2022-06-14
Dell	Dell FTOS		9.11(2.8)	APPROVED	CRQ441457	CRQ441457	2021-08-25
Dell	Dell OpenManage Enterprise		3.6.2	APPROVED	CRQ446307	CRQ446307	2021-11-10
Dell	Dell Openmanage Intergration for VMWare Vcenter		5.3	LATO	CRQ441783	CRQ441783	2022-02-16
Dell	Dell OpenManage Server Administrator		7.4	APPROVED	NS/06822/2015 RSS/06823/2015	PAN/06824/2015	2015-07-29
Dell	Dell OS10		10.5	APPROVED	CRQ455654	CRQ455654	2021-12-15
Dell	Dell Wyse Management Suite		1.3.1	APPROVED	HS/10513/2019		2019-08-06
EADS	Deployable CIS Asset Management System DCIS Light		1.0	APPROVED	NS/03304/2011		2013-08-23
Desktop Alert	Desktop Alert		5.2.25.17	APPROVED	CRQ460197	CRQ460197	2022-04-06
Rabobank	DeTT&CT	DeTT&CT	1.4.0	LATO	CRQ428279	CRQ428279	2022-02-23
Dexpot	Dexpot		1.4	APPROVED	NS/00185/2008	PAN/04409/2012	2008-10-13
Dialogic	Dialogic Drivers and Application		6.0	APPROVED	NS/02688/2011 IS/02689/2011 NGC/02690/2011	NGC/02690/2011	2011-06-15
Digi	Digi Anywhere USB 2 Plus		AW02-G300	APPROVED	HS/11175/2019	LS/11176/2019	2019-11-18
Other	Digital Alarm and Communications Server OSCAR/DAKS		7.7.4	APPROVED	NS/06312/2014 IS/06315/2014 NGC/06314/2014	PAN/06313/2014	2015-03-30
Other	Digital Alarm and Communications Server OSCAR/DAKS		7.7.4 Patch K	APPROVED	NS/06848/2015 RSS/06849/2015 NGC/06851/2015	PAN/06850/2015	2015-11-09
GP software	Directory Opus PRO		11	APPROVED	NS/05805/2014 RSS/07114/2015	PAN/05804/2014	2014-04-09

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Logica	Document Handling System	DHS	2.1.2	APPROVED	NS/02275/2010		2010-12-21
Logica	Document Handling System	DHS	2.1	APPROVED	NS/00177/2008		2008-10-08
Logica	Document Handling System	DHS	2.2	APPROVED	NS/05083/2013 IS/05084/2013		2013-07-24
Logica	Document Handling System	DHS	2.2.1	APPROVED	CRQ438529		2014-06-18
Logica	Document Handling System	DHS	2.2.1.1	APPROVED	NS/06380/2014 IS/06379/2014		2015-04-24
Logica	Document Handling System list viewer web part for MS SharePoint 2010	DHS	1.0	APPROVED	NS/06333/2014		2015-05-08
Logica	Document Handling System Lookup Field Renovator	DHS	1.0	APPROVED	NS/02724/2011		2011-06-08
NATO	Document Processing System	DPS	3.1	APPROVED	CRQ449913	CRQ449913	2021-10-27
Security Roots	Dradis Pro		3.10.1	APPROVED		CRQ433534	2021-03-11
Nuance Communications	Dragon Naturally Speaking - professional		12	APPROVED	NS/05226/2013 IS/05228/2013	PAN/05227/2013	2013-07-12
DTSearch	DTSearch		7.63	APPROVED	NS/01308/2009 IS/02859/2011	PAN/01309/2009	2010-02-05
DupeHunter	DupeHunter PRO		9.6.0.3956	APPROVED	NS/05815/2014 IS/05814/2014	PAN/05816/2014	2015-08-24
Autodesk	DWG TrueView		2019	APPROVED	NS/09561/2018	PAN/09562/2018	2019-01-10
Dymo	Dymo Label Writer		8.3	APPROVED		PAN/03641/2012	2012-03-26
Stonewood	EMA - Eclipt Management Application	EMA	4.1.14	APPROVED	CRQ423080		2021-10-06
Microsoft	Microsoft Edge (Chromium Based)	Chromium Edge	Latest Version	APPROVED	CRQ407868	CRQ407868	2020-09-01
Microsoft	Microsoft Edge WebView2		1.0	APPROVED	CRQ472372	CRQ472372	2022-07-20
NATO	EPM-EBA Export Interface UI		6.0.0.x	APPROVED	CRQ457548	CRQ457548	2021-12-15
NCIA	Electronic Digital Media Library	EDML	1.0	APPROVED		PAN/08352/2016	2017-05-04
NCIA	Electronic Digital Media Library	EDML	2.0	APPROVED		CRQ435243	2021-05-17
NCIA	Electronic Digital Media Library	EDML	2.2.0	APPROVED		CRQ472508	2022-07-20
NATO	Electronic Individual Training and Exercise Programme	EITEP	3.2	APPROVED		LS/10728/2019	2019-07-25
NATO	Electronic Individual Training and Exercise Programme	EITEP	4.1	APPROVED	CRQ461861	CRQ4618361	2022-08-03
NATO	Electronic Military Training and Exercise Programme	EMTEP	17.2	APPROVED	NS/09554/2018	PAN/09553/2018	2018-10-02
NATO	Electronic Military Training and Exercise Programme	EMTEP	19.4	APPROVED	CRQ461863	CRQ461863	2022-07-06
EMC	EMC Powerpath		5.5.B289	APPROVED	NS/02723/2011		2011-04-20
Emco	Emco MSI Package Builder PRO		4.5.5	APPROVED	NS/05231/2013	PAN/05232/2013	2013-07-24
Emerson	Emerson rack power manager		1	APPROVED	NS/04069/2012	PAN/04070/2012	2012-07-12
NATO	Employee OnLine version	EOL	1.5.3604	APPROVED	NS/01399/2010		2010-02-16
OpenText	Encase Endpoint Security		6.06	APPROVED	HS/10983/2019		2020-03-23
Encase	Encase Forensic		21.1	LATO	CRQ456079	CRQ456079	2021-12-01
Encase Enterprise	Encase Servlet		6.19.1	APPROVED	NS/02997/2011 IS/02998/2011	PAN/02999/2011	2011-11-07
NATO	Enhanced Force Generation Management Tool	EFGMT	6.2.5	APPROVED	CRQ444635	CRQ444635	2021-09-08

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Sparx Systems	Enterprise Architect		16.0	APPROVED	CRQ468010	CRQ468010	2022-05-11
Sparx Systems	Enterprise Architect Viewer		8.0	APPROVED	NS/02419/2011	PAN/02420/2011	2011-01-27
Entrust	Entrust Authority Administration Services		9.3	APPROVED	HS/10494/2019	LS/10495/2019	2019-06-07
Entrust	Entrust Authority Administration Services		10.0	LATO	CRQ454823	CRQ454823	2021-11-17
Entrust	Entrust Authority Administration Services		10.1	APPROVED	CRQ453905	CRQ453905	2022-05-18
Entrust	Entrust Authority Enrollment Server for Web		8.0	APPROVED	HS/10496/2019	LS/10497/2019	2019-06-07
Entrust	Entrust Authority Security Manager		8.3	APPROVED	NS/10203/2018	PAN/10204/2018	2019-02-01
Entrust	Entrust Authority Security Manager Administration		8.3	APPROVED	HS/10492/2019	LS/10493/2019	2019-05-24
Entrust	Entrust IdentityGuard		12	APPROVED	HS/10500/2019	LS/10501/2019	2019-04-04
Entrust	Entrust Identity Enterprise		13	APPROVED	CRQ453927	CRQ453927	2022-05-18
Entrust	Entrust Intelligence Security Provider		10.0	APPROVED	HS/10498/2019	LS/10499/2019	2019-06-07
Entrust	Entrust Security Manager		10.0	APPROVED	CRQ453900	CRQ453900	2022-05-18
Entrust	Entrust Security Manager Administration		10.0	APPROVED	CRQ453902	CRQ453902	2022-05-11
Entrust	ENTRUST SUITE 3 - NPKI V3		8.1	APPROVED	NS/07078/2015 RSS/07079/2015	PAN/07080/2015	2016-01-18
Epson	Epson iProjection		2.22	LATO	NS/09671/2018		2018-10-09
Epson	Epson Perfection V850 Pro		3.9.3.5	LATO	CRQ468250		2022-05-11
Epson	Epson Projector Management		5.10	LATO	NS/09712/2018		2018-10-09
Epson	Epson Total Disk Maker Software Suite		6.09	APPROVED	NS/09049/2017		2017-10-26
Hexagon Geospatial	Erdas Imagine		2018	APPROVED	NS/09799/2018 RSS/09800/2018		2018-10-26
NATO	Establishment Review Tool	ERT	3.1	APPROVED	10977	10977	2020-08-26
NATO	Establishment Review Tool	ERT	3.1 Hotfix	APPROVED	CRQ468652	CRQ468652	2022-05-18
NATION-EST	Estonian ID Card		3.4	APPROVED		PAN/03160/2011	2011-11-03
Microsoft	Exchange Server		2013 CU12	APPROVED	NS/07734/2016 RSS/07735/2016	PAN/07736/2016	2016-08-23
Microsoft	Exchange Server		2016 CU4	APPROVED	NS/08613/2017 RSS/08614/2017	PAN/08615/2017	2017-05-18
Microsoft	Exchange Server		2019	APPROVED	CRQ451462	CRQ451462	2021-11-24
JFTC	Exercise Information Services	EXIS	1.4.0	APPROVED	HS/11053/2019		2019-11-04
Microsoft	Expression Web		4 W SP2	APPROVED	NS/03576/2012		2012-04-27
PremierPoint Solutions	Extranet Collaboration Manager Professional	EXCM	2013 R2	APPROVED	NS/08342/2016		2018-12-19
PremierPoint	Extranet Collaboration Manager for Sharepoint		2019	APPROVED	CRQ448856	CRQ448856	2021-11-10
Extron	Extron Matrix Switcher		1.01	APPROVED	NS/08416/2016 NGC/08418/2016	PAN/08417/2016	2017-09-07
FaciliCAD inc	FaciliCAD Desktop Client		2021.03.16	APPROVED		CRQ445862	2021-09-08
Logicube	Falcon Neo		3.2u3	LATO	CRQ456089	CRQ456089	2021-12-01
Fargo	Fargo HDP5000		NA	APPROVED	NS/02309/2010		2011-03-03
Telerik	Fiddler		5.0.2x	LATO		CRQ457531	2021-12-15
Fidelis	Fidelis Endpoint Security		9.2.4	APPROVED	HS/11007/2019	LS/11008/2019	2020-11-17

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Fidelis	Fidelis Endpoint Security		9.1.2	LATO	CRQ458122	CRQ458122	2022-01-12
Fidelis	Fidelis Resolution1 CyberSecurity		5.8	APPROV ED	NIATC/07410/2015	NIATC/07410/2015	2016-06-24
Fidelis	Fidelis Resolution1 CyberSecurity Agent		5.8.0.5	APPROV ED	NS/07512/2015 NIATC/07400/2015	PAN/07513/2015	2016-06-24
Filemaker	FileMaker Pro		10	APPROV ED	NS/01078/2009	PAN/01093/2009	2009-09-10
Mozilla	Firefox ESR		91.x	APPROV ED	CRQ447012	CRQ447012	2021-08-25
Mozilla	Firefox For Linux		68.3.0.1	APPROV ED	HS/11715/2020	LS/11716/2020	2020-01-29
Fluke	Fluke NetFlow Tracker		6.5	APPROV ED	NS/02199/2010 IS/02200/2010	NGC/02255/2010	2011-07-19
Microsoft	Forefront Threat Management Gateway	TMG	2010 W SP2	APPROV ED	NS/05049/2013 IS/05050/2013	PAN/05051/2013	2013-09-16
Microsoft	FTP Service for IIS 7		7.5	APPROV ED	NS/02904/2011 IS/02905/2011 NGC/02907/2011	PAN/02903/2011	2011-09-22
Gary Lapointe	Gary Lapointe STSadm Extensions For WSS and MOSS		2010	APPROV ED	NS/01709/2010 IS/01710/2010		2010-07-30
Gatehouse	Gatehouse AIS proxy		1.0	APPROV ED		PAN/04151/2012	2012-10-25
Gemalto	Gemalto Licencing Tool		18.5	APPROV ED		CRQ414658	2020-11-05
Gemalto	Gemalto Sentinel Hardware Keys		1.2.1	APPROV ED		CRQ414662	2020-10-21
iOra	Geo Replicator		4.15 SP3B	APPROV ED	NS/02548/2011 IS/02549/2011		2011-06-30
iOra	Geo Replicator		4.18i	APPROV ED	NS/06127/2014 IS/06126/2014		2014-12-11
NATION-ITA	GEOT4 Viewer		1.0.0	APPROV ED	NS/06610/2015		2015-03-24
AIS	Global AIS Data Converter		2.0.0	APPROV ED		PAN/02310/2010	2011-07-22
Grafana Labs	Grafana		7.3.5	APPROV ED	CRQ420892	CRQ420892	2021-05-19
Grafana Labs	Grafana		8.5.4	LATO		CRQ471510	2022-06-29
NATO	Graphical Library Automation System	GLAS	NA	APPROV ED	NS/00048/2008	NS/00048/2008	2006-09-29
NATO	GSS Server / Appliance toolbox		3.0	APPROV ED	NS/04680/2013	PAN/04681/2013	2013-06-27
Ixblue	Global Electronic Chart Display Informatoin System	GECDIS	5.1.8	APPROV ED	NS/07391/2015	PAN/09340/2018	2016-10-27
Ixblue	Global Electronic Chart Display Informatoin System	GECDIS	8.16	APPROV ED	CRQ455106	CRQ455106	2022-01-25
VIM	GVIM Advanced Text Editor		7.3	APPROV ED	NS/02054/2010 NGC/02056/2010	PAN/02055/2010	2010-09-01
NATION-USA	Hazard Prediction and Assessment Capability	HPAC	4.0.4	APPROV ED	NS/00042/2008		2003-04-18
NATION-USA	Hazard Prediction and Assessment Capability	HPAC	4.04.1	APPROV ED	CRQ466913		2022-04-20
Unify	Hipath 4000		6.0	APPROV ED	NGC/05317/2013	PAN/05318/2013 NGC/05317/2013	2013-09-26
NATION-POL	HMS C3IS JASMINE		1.8.5	APPROV ED	HS/10349/2019		2019-03-15
Holywell	Honeywell Galaxy Remote Servicing Suite		3.37	APPROV ED		PAN/08479/2016	2017-07-17
NATO	Housing Office Management	HOMS	2.1	APPROV ED		CRQ463942	2022-03-23
Hewlett-Packard	HP Intelligent Management Center	IMC	7.3	APPROV ED	NS/09912/2018 RSS/09913/2018	PAN/09914/2018	2019-06-04
Hewlett-Packard	HP JetAdvantage Security Manager		3.2.1	APPROV ED	HS/10521/2019	LS/10522/2019	2016-08-06
Hewlett-Packard	HP Network Automation		9.21	APPROV	NS/04983/2013 IS/04982/2013 NGC/04985/2013	PAN/04981/2013	2013-07-25

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Hewlett-Packard	HP P6000 Command View Software		10.3	APPROVED	NS/08772/2017	PAN/08773/2017	2017-08-08
Hewlett-Packard	HP Power Protector		1.01.016	APPROVED	NS/04492/2012 NIATC/05577/2013	PAN/04493/2012	2013-11-06
Hewlett-Packard	HP Smart Document Scan Software		2.7	APPROVED	NS/01791/2010	PAN/01792/2010	2010-07-19
Hewlett-Packard	HP Utilities		NA	APPROVED	NS/00534/2009		2012-04-25
Hewlett-Packard	HP Web Jetadmin		10.2	APPROVED	NS/02389/2011 RSS/08200/2016	PAN/02390/2011	2011-05-04
Hewlett-Packard	HP Web Jetadmin		10.4	APPROVED	NS/07800/2016 RSS/08227/2016	PAN/07801/2016	2016-12-16
Integrity	Integrity AppDefend		4.6.159	APPROVED		CRQ443442	2022-01-19
NCIA	HUMINT Management and Reporting Tool Online Module	HMART OM	1.3.1	APPROVED	HS/11707/2020		2020-06-05
NCIA	HUMINT Management and Reporting Tool Online Module	HMART OM	1.3.2	APPROVED	CRQ436473	CRQ436473	2021-03-29
NCIA	HUMINT Management and Reporting Tool Online Module	HMART OM	3.0.0	APPROVED	CRQ460490		2022-04-20
NCIA	HUMINT Management and Reporting Tool Source Deconfliction	HMART SD	2.6.0	APPROVED	NS/09271/2017		2018-04-19
NCIA	HUMINT Management and Reporting Tool Source Deconfliction	HMART SD	2.7.0	APPROVED	NS/10253/2019		2019-03-05
NCIA	HUMINT Management and Reporting Tool Source Deconfliction	HMART SD	2.8.1	APPROVED	HS/11706/2020		2020-06-05
NCIA	HUMINT Management and Reporting Tool Source Deconfliction	HMART SD	2.8.2	APPROVED	CRQ437338		2021-04-27
NCIA	HUMINT Management and Reporting Tool Source Deconfliction	HMART SD	3.0.0	APPROVED	CRQ460492		2022-04-20
Hummingbird	Hummingbird Exceed		7.0	APPROVED	NS/00063/2008		2007-09-02
Hummingbird	Hummingbird Exceed		2008	APPROVED	NS/00064/2008		2008-05-06
Hummingbird	Hummingbird Exceed		14	APPROVED	NS/03582/2012		2012-06-28
Hummingbird	Hummingbird Exceed - Opentext Connectivity Service Pack		14.0.13	APPROVED	NS/06699/2015		2015-10-19
Hyena	Hyena Enterprise		13.0.2	APPROVED	NS/10016/2018	PAN/10017/2018	2019-01-11
PHP	Hypertext Preprocessor	PHP	5.2.17	APPROVED	NS/03869/2012 IS/03870/2012	PAN/03872/2012	2013-01-28
IATA	IATA Dangerous goods regulations		55.0	APPROVED	NS/05843/2014 IS/05841/2014	PAN/05842/2014	2014-03-19
NATO	IBL NATO Meteorological Data - Web Portal	NMD-WEB	1.1.4	APPROVED	HS/10607/2019		2019-06-11
IBM	IBM I2 Analysts Notebook		9.0.6	APPROVED	NS/09305/2017 RSS/09306/2017	NIATC/09456/2018	2018-06-26
IBM	IBM I2 Analysts Notebook		9.2.0	APPROVED	HS/11308/2019	LS/11309/2019	2020-07-08
IBM	IBM I2 iBridge		8.9.1	APPROVED	NS/04277/2012 IS/04278/2012		2013-04-30
IBM	IBM ISS Proventia Server		2.2	APPROVED	NS/02942/2011 IS/03590/2012	PAN/02943/2011	2011-10-13
IBM	IBM Lotus Forms Viewer		3.5	APPROVED		PAN/01201/2009	2010-01-20
IBM	IBM Lotus Forms Viewer		4.0.0.3	APPROVED		PAN/05674/2013	2017-07-03
IBM	IBM Rational Doors NG		6.0.2	APPROVED	NS/08150/2016	PAN/08151/2016	2016-10-20
IBM	IBM Rational Method Composer		7.5.1	APPROVED	NS/04590/2012		2013-03-06
IBM	IBM Security Siteprotector		3.0	APPROVED	NS/05616/2013 NIATC/05620/2013 IS/05617/2013	PAN/05618/2013	2014-02-28

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IBM	IBM Security Siteprotector		2.9	APPROVED	NS/04495/2012 NIATC/05575/2013	PAN/04496/2012	2014-10-24
IBM	IBM SPSS Statistics Premium	SPSS	22.0	APPROVED	NS/05520/2013	PAN/05521/2013	2014-01-08
IBM	IBM SPSS Statistics Text Analytics	SPSS	4.0	APPROVED	NS/02151/2010		2011-04-13
iBwave	iBwave Viewer		13.0.0	LATO	HS/11374/2019	LS/11373/2019	2019-10-31
Microsoft	Identity Manager		2016 SP1	APPROVED	NS/09353/2018 RSS/09354/2018	PAN/09355/2018	2018-06-05
Microsoft	Identity Manager		2016 SP2	APPROVED	HS/11736/2020	LS/11737/2020	2020-09-02
NSPA	IETM Viewer Desktop Edition		2.6.25	APPROVED	CRQ447227		2021-09-15
NSPA	IETM Viewer Desktop Edition		2.6.26.1	APPROVED	CRQ461881	CRQ461881	2022-03-09
NSPA	IETM Viewer Touch Edition		3.2.0	APPROVED	HS/11576/2019		2021-01-20
NSPA	IETM Viewer App (Touch) Edition		2105.2.0	APPROVED	CRQ441889		2021-12-01
NSPA	IETM Viewer App (Touch) Edition		2111.1.0	APPROVED	CRQ461884	CRQ461884	2022-03-16
NSPA	IETM Viewer App (Touch) Edition		2205.1.0	APPROVED	CRQ471530	CRQ471530	2022-06-29
Imagicle	Imagicle Application Suite for Cisco UC		2021 3	APPROVED	CRQ453149	CRQ453149	2021-12-08
NCIA	Indicators and Warnings Portal		1.0	LATO	CRQ447294		2021-09-08
Infoblox	Infoblox Network Automation	NETMRI	7.0.2	APPROVED	NS/07575/2016 RSS/07576/2016 NGC/07578/2016	PAN/07577/2016	2016-03-16
Infoblox	Infoblox NiOS		6.11.5	APPROVED	NS/06475/2014 IS/06476/2014 NGC/06478/2014	PAN/06477/2014	2015-03-11
ADCC	infocad.FM		1	APPROVED		PAN/02249/2010	2011-09-23
NATO	Integrated Engineers Management System	IEMS	1.0	APPROVED		PAN/04678/2013	2015-10-06
NATO	Integrated Personnel Database	IPDB	3.2.5	APPROVED	NS/01555/2010		2010-08-31
NATO	Integrated Security and Inprocessing System	ISIPS	3.2	APPROVED		PAN/05885/2014	2014-06-19
NATO	Integrated Security and Inprocessing System	ISIPS	4.7	APPROVED	HS/10757/2019	LS/10757/2019	2020-01-15
NCIA	Integrated Training Capability	ITC	1.2.0	APPROVED	HS/10324/2019		2019-03-14
NCIA	Integrated Training Capability	ITC	1.4.1	APPROVED	CRQ439363		2021-04-28
NCIA	Integrated Training Capability	ITC	1.4.2	LATO	CRQ452005	CRQ452005	2021-11-03
NATO	Integration CORE	INT-CORE	4.2.0	APPROVED	CRQ453594		2022-01-19
NATO	INTEL-FS AOSS Watcher	INTEL-FS AOSS Watcher	1.0.0	APPROVED	NS/07127/2015		2017-03-24
NATO	Intelligence Functional Service	INTEL-FS	1.5.0	APPROVED	CRQ412180		2020-12-04
NATO	Intelligence Functional Service	INTEL-FS	1.5.1	APPROVED	CRQ429110		2021-02-11
NATO	Intelligence Functional Service	INTEL-FS	1.6.0	APPROVED	CRQ450216		2022-02-16
NATO	Intelligence Functional Service	INTEL-FS	1.7.0	LATO	CRQ466155		2022-04-13
NATO	Intelligence Functional Service - Analyst Notebook iBridge Support	INTEL-FS Power Search	1.6.0	APPROVED	CRQ450224		2022-02-16
NATO	Intelligence Functional Service - Command Line Interface	INTEL-FS CLI	1.5.0	APPROVED	CRQ412181		2020-12-04
NATO	Intelligence Functional Service - Command Line Interface	INTEL-FS CLI	1.6.0	APPROVED	CRQ450220		2022-02-16
NATO	Intelligence Functional Service - Geospatial Viewer	INTEL-FS	1.5.0	APPROVED	CRQ412188		2020-12-04

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NATO	Intelligence Functional Service - iBridge Support	INTEL-FS	1.5.0	APPROVED	CRQ412182		2020-12-04
NATO	Intelligence Functional Service - Identity Server	INTEL-FS	1.6.0	APPROVED	CRQ450217		2022-02-16
NATO	Intelligence Functional Service - Power Search	INTEL-FS Power Search	1.5.0	APPROVED	CRQ412186		2020-12-04
NATO	Intelligence Functional Service - Power Search	INTEL-FS Power Search	1.5.2	APPROVED	CRQ435928		2021-07-14
NATO	Intelligence Functional Service - Power Search	INTEL-FS Power Search	1.6.0	APPROVED	CRQ450221		2022-02-16
NATO	Intelligence Training Management System	ITMS	2.4	APPROVED	NS/02551/2011		2011-06-20
NATO	Intelligence Training Management System	ITMS	2.4.1	APPROVED	NS/02890/2011		2011-07-19
Hexrays	Interactive Disassembler Pro	IDA	6.95	APPROVED	NIATC/08378/2016	NIATC/08378/2016	2017-06-27
NATO	Interactive Simulation Package	ISP	3.3.0	APPROVED	NS/02276/2010		2011-05-04
NATO	Interim Geospatial Intelligence Tool - new Certificate	IGEOSIT	3.2.3	APPROVED	NS/09705/2018 RSS/09706/2018		2018-06-21
NATO	Interim Geospatial Intelligence Tool - new Certificate	IGEOSIT	3.2.4 (Build 205)	APPROVED	CRQ427539		2020-12-15
NATO	Interim Geospatial Intelligence Tool	IGEOSIT	3.2.5	APPROVED	CRQ447970		2021-09-01
Dartware	Intermapper		5.8.2	APPROVED	NS/07190/2015 RSS/07191/2015 NGC/07193/2015	PAN/07192/2015	2015-11-09
Dartware	Intermapper		6.0.1	APPROVED	NS/07853/2016 RSS/07854/2016 NGC/07856/2016	PAN/07855/2016	2017-03-24
Microsoft	Internet Explorer Critical Patch		CVE2019-1429	APPROVED	HS/11456/2019	LS/11457/2019	2019-11-19
NCIA	IO Toolset		0.5.4	APPROVED	HS/10720/2019		2019-04-18
NCIA	IO Toolset		0.5.6	APPROVED	CRQ386998	CRQ386998	2020-04-02
SolarWinds	IP Address Manager	IPAM	2020.2.5	APPROVED	CRQ434083	CRQ434083	2021-08-25
Poseidon	IPTV Management system	IPTV	1	APPROVED		PAN/02847/2011	2013-11-27
Poseidon	IPTV server (TV system)	IPTV	1	APPROVED		PAN/02934/2011	2013-11-27
DataLocker	IronKey EMS		7.1	APPROVED	RSS/09798/2018		2018-08-13
Isabel	Isabel		6 (Security Components v6.34.0019)	APPROVED		CRQ447960	2021-11-03
Isograph	Isograph Reliability Workbench Incorporating Fault Tree+		11.1.30.1	APPROVED		CRQ411963	2020-07-14
Teleplan	ISR Collection Management Tool	ICMT	3.1.3	APPROVED	NS/10198/2018		2019-02-08
Teleplan	ISR Collection Management Tool	ICMT	3.3.2.002	APPROVED	CRQ456905		2021-12-15
Teleplan	ISR Collection Management Tool	ICMT	3.3.2.005	APPROVED	CRQ462714		2022-03-02
NCIA	ITM Toolbox		1.2	APPROVED	HS/10756/2019	LS/10755/2019	2019-09-06
iTRACS	iTRACS Physical Layer Manager		9.0.2	APPROVED	NS/00691/2009		2009-10-28
iTRACS DCIM	iTRACS DCIM		5.4.3	APPROVED	CRQ423950		2021-07-14
IXIA	Ixia Vision Edge 10S Network Packet Broker	E10S	5.10.1.11	APPROVED	CRQ460127	CRQ460127	2022-03-23
TIBCO	Jaspersoft Business Intelligence		6.4.3	APPROVED	CRQ427542	CRQ427542	2021-07-07
TIBCO	Jaspersoft Business Intelligence		7.1.1	APPROVED	CRQ442444	CRQ442444	2021-11-24
TIBCO	Jaspersoft Studio		6.19.1	APPROVED		CRQ468669	2022-05-25

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Isode	JCHAT Server - M-Link	JCHAT - M-LINK	17.0V18	APPROVED	CRQ434512		2021-02-25
NATO	JCHAT Server - Openfire	JCHAT - Openfire	4.5.6	APPROVED	CRQ458674		2022-01-20
NATO	JCHAT Server - Openfire	JCHAT - Openfire	4.7.1	LATO	CRQ466640		2022-04-14
Jeff-Net	Jeff-Net Report Runner Batch Enterprise Edition		2016	APPROVED	NIATC/08366/2016	NIATC/08366/2016	2018-01-25
NCIA	JEMMPAD Software		1.2.2	APPROVED	NS/08966/2017	PAN/08967/2017	2017-08-31
Atlassian	Jira		8.8.0	APPROVED	CRQ407876	CRQ407876	2020-04-24
Atlassian	Jira Service Management		4.19.1	LATO	CRQ452485	CRQ452485	2021-10-20
Atlassian	Jira Software		8.16.1	APPROVED	CRQ439406	CRQ439406	2021-05-19
NATO	Joint Advanced Distributed Learning Management Server - ILIAS	JADL	5.3.16	APPROVED	10985/2019		2019-07-23
NATO	Joint Advanced Distributed Learning	JADL	7.5	APPROVED	CRQ461859	CRQ461859	2022-07-06
NATION-USA	Joint Automated Deep Operation Coordination System	JADOCs	1.0.5.3 P1	APPROVED	HS/11066/2019		2019-11-21
NATO	Joint Exercise Management Module	JEMM	3.4	APPROVED	HS/11042/2019	LS/11043/2019	2020-07-06
NATO	Joint Exercise Management Module	JEMM	3.5.0	APPROVED	CRQ469871	CRQ469871	2022-06-22
NATO	Joint Mission Planning System	JMPS	1.5.305	APPROVED	CRQ412921	CRQ412921	2020-11-03
NATO	Joint Operations Centre Watch	JOCWATCH	3.3.0	APPROVED	HS/11477/2019		2020-02-28
NATO	Joint Operations Centre Watch	JOCWATCH	3.3.1	APPROVED	CRQ409100		2020-07-08
NATO	Joint Operations Centre Watch	JOCWATCH	3.3.2	APPROVED	CRQ439070		2021-05-21
NATO	Joint Operations Centre Watch	JOCWATCH	4.0.2	APPROVED	CRQ457672		2022-01-20
Engility	Joint Range Extension Gateway	JRE-GW	6.0.3.0	LATO	CRQ456127		2021-12-15
Engility	Joint Range Extension Gateway	JRE-GW	7.0.0.4 CU7	Approved	CRQ456234		2022-02-02
NATO	Joint Targeting System / Functional Area Service for Dynamic and Time-Sensitive Targeting	JTS/FAST	4.2	APPROVED	CRQ411299		2020-08-13
NATO	Joint Targeting System / Functional Area Service for Dynamic and Time-Sensitive Targeting	JTS/FAST	4.2.1	APPROVED	CRQ429272		2021-02-19
NATO	Joint Targeting System / Functional Area Service for Dynamic and Time-Sensitive Targeting	JTS/FAST	4.3.0	APPROVED	CRQ471907		2022-07-13
Juniper Networks	Juniper Active-x		1.3.0	APPROVED		PAN/02807/2011	2011-08-05
Juniper Networks	Juniper Active-x		7.0.0	APPROVED		PAN/02808/2011	2011-08-05
Juniper	Juniper EX4600 Switch - Junos		21.1R1	LATO	CRQ456109	CRQ456109	2021-12-01
Juniper Networks	Juniper Netscreen OS		6.3.0R25	APPROVED	NS/09358/2018	PAN/09359/2018	2018-06-20
Project Jupyter	Jupyter Notebook		6.4.0	LATO	CRQ456129	CRQ456129	2021-12-01
Juniper Networks	Junos OS SRX3400		12.1	APPROVED	NIATC/06694/2015	NIATC/06694/2015	2015-07-14
Juniper Networks	Junos OS SRX550		12.1	APPROVED	NIATC/06695/2015	NIATC/06695/2015	2015-07-14
Juniper	Junos OS SRX Series		12.3X48	APPROVED	HS/11070/2019	LS/11071/2019	2020-10-28
Juniper	Juniper Junos Space		18.2	APPROVED	NIATC/10227/2018	NIATC/10227/2018	2020-11-13
Juniper	Juniper Junos Space		20.3	APPROVED	CRQ435534	CRQ435534	2022-01-12
Lexis-Nexis	Juris data		8.3	APPROVED		PAN/01512/2010	2010-04-01

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NATO	JWC Lessons Learned Management Tool		1.0	APPROVED	NS/04223/2012	PAN/04224/2012	2013-02-21
KeePass	KeePass		2.44	APPROVED	CRQ408501	CRQ408501	2020-05-06
KNIME	KNIME Analytics Platform		4.4	APPROVED	CRQ445602	CRQ445602	2021-11-24
KNIME	KNIME Server		4.13	APPROVED	CRQ445603		2021-11-24
NATO	Land Command & Control Information Services	LC2IS	6.1.3	APPROVED	HS/11638/2019		2020-03-24
NATO	Land Command & Control Information Services	LC2IS	6.1.4	APPROVED	CRQ433883		2021-04-01
NATO	Land Command & Control Information Services	LC2IS	6.2.0	APPROVED	CRQ450148		2022-02-16
NATO	Land Command & Control Information Services	LC2IS	6.2.1	APPROVED	CRQ467148		2022-04-20
NATION-POL	Land Command and Control System - SZAFRAN		2.0	APPROVED	NS/00174/2008		2009-01-15
Lansweeper	Lansweeper		8.4.110.3	APPROVED	CRQ448148	CRQ448148	2021-09-29
LASCOM	Product Lifecycle Management	PLM	Lime 1.3	APPROVED	CRQ452123	CRQ452123	2022-03-23
Robert	Le Petit Robert		2010	APPROVED	NS/01469/2010	PAN/01470/2010	2010-02-19
NATO	Liaison Monitoring Team	LMT	1.0.0	APPROVED	NS/02629/2011		2011-09-05
NATO	Liaison Monitoring Team Replicator	LMT	1.0	APPROVED	NS/06129/2014		2014-10-24
Ligthning UK	ImgBurn		2.5.8	LATO	CRQ463922	CRQ463922	2022-06-01
Other	Linux Quarterly Patches		OCT 2019	APPROVED	HS/11248/2019	LS/11249/2019	2019-11-28
other	LiveMaps		8.6.1	APPROVED	HS/10678/2019	LS/10679/2019	2019-10-15
Liwal	Liwal Pashto and Dari support for MS Windows		1.0.0	APPROVED		PAN/06988/2015	2015-05-28
Microsoft	Local Administrator Password Solution	LAPS	6.0.0.0	APPROVED	NS/07466/2015 RSS/07865/2016	PAN/07467/2015	2016-06-10
Microsoft	Local Administrator Password Solution	LAPS	6.2	APPROVED	CRQ439312	CRQ439312	2021-08-04
NATO	Logistics Functional Area Services	LOGFAS	6.5.0	APPROVED	HS/11263/2019	LS/11264/2019	2020-01-20
NATO	Logistics Functional Area Services	LOGFAS	7.0.0	APPROVED	CRQ450200	CRQ450200	2022-01-12
NATO	Logistics Functional Area Services	LOGFAS	7.0.1	APPROVED	CRQ461672	CRQ461672	2022-02-23
NATO	Logistics Functional Area Services	LOGFAS	7.1.0	APPROVED	CRQ465763	CRQ465763	2022-05-22
NATO	Logistics Functional Area Services	LOGFAS	7.2.0	APPROVED	CRQ471784	CRQ471784	2022-07-13
Logitech	Logitech QuickCam and Office Communicator		2007	APPROVED	NS/00397/2008		2009-02-02
LISA	Logitrack		3.5	APPROVED		PAN/03877/2012	2012-07-12
Sparqube	Lookup Column Suite for Sharepoint		1.21.1809.301	APPROVED	CRQ459822	CRQ459822	2022-02-09
Microsoft	Lync Client		2010	APPROVED	NS/04304/2012 IS/04305/2012	PAN/04307/2012	2013-01-28
Microsoft	Lync Server		2010	APPROVED	NS/04160/2012 IS/04161/2012	PAN/04163/2012	2013-01-28
Magic Utilities	Magic Utilities		3.0.8.8d	APPROVED		CRQ406517	2020-09-09
Magnet	Magnet Forensics Axiom		4.11.0	LATO	CRQ456112	CRQ456112	2021-12-01
Magnet	Magnet Forensics Automate		2.9.0	LATO	CRQ456110	CRQ456110	2021-12-01
Paterva	Maltego Classic		4.0.8	APPROV	NIATC/08377/2016	NIATC/08377/2016	2017-06-27

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Finmeccanica	Malware analysis toolset	MA	1.0	APPROVED		PAN/04475/2012 NIATC/05591/2013	2013-04-30
MISP	Malware Information Sharing Platform	MISP	2.4.156	APPROVED	CRQ465001	CRQ465001	2022-04-26
Microsoft	Manage User Membership		1.0	APPROVED	NS/02416/2011 IS/02418/2011	PAN/02417/2011	2011-07-22
Atos	Manpower Analysis and Planning Software Report Tool 2	MAPS MRT2	1.0	APPROVED	NS/01813/2010		2010-10-15
Microsoft	MapPoint		2009	APPROVED		PAN/02552/2011	2011-04-28
NATO	Maritime Command and Control Information System	MCCIS	6.1.0.1	APPROVED	NS/06310/2014		2014-09-05
NATO	Maritime Command and Control Information System	MCCIS	6.2.0	APPROVED	NS/07262/2015		2015-12-10
NATO	Maritime Command and Control Information System	MCCIS	6.3.0R2	APPROVED	NS/07263/2015		2015-12-10
NATO	Maritime Command and Control Information System	MCCIS	6.3.1	APPROVED	NS/08205/2016		2017-01-20
NATO	Maritime Command and Control Information System	MCCIS	6.4.0	APPROVED	NS/09111/2017		2018-02-08
NATO	Maritime Command and Control Information System	MCCIS	6.4.1	APPROVED	NS/9534/2018		2018-04-04
NATO	Maritime Command and Control Information System	MCCIS	6.4.2	APPROVED	NS/09940/2018		2018-10-17
Northrop Grumman	Maritime Command and Control Information System	MCCIS	6.5	APPROVED	CRQ439299		2015-06-16
Northrop Grumman	Maritime Command and Control Information System	MCCIS	6.5.1	APPROVED	CRQ462341		2022-03-09
NATO	Maritime Situational Awareness Baseline for Rapid Iterative Transformational Experimentation	MSA BRITE	2.3	APPROVED	NS/08353/2016	PAN/08354/2016	2017-08-31
Mark Wilson Software	Mark Wilson Classify for Outlook 2007		8.8.30.1	APPROVED	NS/00861/2009 IS/00862/2009	PAN/00863/2009	2009-09-24
Mark Wilson Software	Mark Wilson Classify for Outlook 2010		12.1.41	APPROVED	NS/04788/2013 IS/04789/2013	PAN/04790/2013	2013-07-08
Mark Wilson Software	Mark Wilson Classify for Outlook 2010		12.1.45	APPROVED	NS/05279/2013 NIATC/05284/2013 IS/05280/2013	PAN/05281/2013	2013-11-18
Mark Wilson Software	Mark Wilson Classify for Outlook 2016		12.1.89	APPROVED	CRQ411608	CRQ411608	2020-07-29
Market Central	Market Central Data Deadbolt		D1000	APPROVED	NS/08413/2016 NGC/08415/2016	PAN/08414/2016	2018-01-30
Market Central	Market central secureswitch A/B/C Fiber optic switch		NA	APPROVED	NS/04837/2013 IS/04838/2013 NGC/04841/2013	PAN/04840/2013	2014-07-16
MAXQDA	MAXQDA 2020 Plus		2020 20.3.0	APPROVED	CRQ433846	CRQ433846	2021-09-10
Thales	MaxView		5.7.1	APPROVED		PAN/07113/2015	2016-01-12
McAfee	McAfee Active Response	MAR	2.4	LATO	HS/10509/2019	LS/10508/2019	2019-04-08
McAfee	McAfee Advanced Threat Defense	ATD	4.6	LATO	HS/10511/2019	LS/10512/2019	2019-04-08
McAfee	McAfee Application Control	MAC	8.3.5	APPROVED	CRQ469835	CRQ469835	2022-06-14
McAfee	McAfee Data Exchange Layer	DXL	6.0.0.HF3	APPROVED	CRQ459547	CRQ459547	2022-05-03
McAfee	McAfee Data Loss Prevention Endpoint	DLPE	11.6.500	APPROVED	CRQ467313	CRQ467313	2022-04-29
McAfee	McAfee Drive Encryption	MDE	7.3.1	APPROVED		CRQ469490	2022-07-06
McAfee	McAfee Endpoint Security for Linux	ENS-L	10.7.9	APPROVED	CRQ464639	CRQ464639	2022-04-06
McAfee	McAfee Endpoint Security for Linux	ENS-L	10.7.10	APPROVED	CRQ468873	CRQ468873	2022-07-06
McAfee	McAfee Endpoint Security for Windows	ENS	10.7 February 2022	APPROVED	CRQ463793	CRQ463793	2022-04-06
McAfee	McAfee Endpoint Security for Windows - Exploit Prevention	ENS	10.7 April 2022	APPROVED	CRQ468545	CRQ468545	2022-06-15

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McAfee	McAfee Endpoint Security for Windows - Exploit Prevention	ENS	10.7 June 2022	APPROVED	CRQ471582	CRQ471582	2022-06-22
McAfee	McAfee ePolicy Orchestrator	EPO	5.10.0 UPDATE 13	APPROVED	CRQ465309	CRQ465309	2022-03-30
McAfee	McAfee File and Removable Media Protection	FRP	5.4.2	APPROVED	CRQ460169	CRQ460169	2022-03-23
McAfee	McAfee Profiler		2.0.1	APPROVED	HS/11202/2019	LS/11203/2019	2019-11-05
McAfee	McAfee Rogue System Detection	RSD	5.0.6	APPROVED	NS/10216/2018 NIATC/10219/2018 RSS/10217/2018	PAN/10218/2018	2019-03-26
McAfee	McAfee Threat Intelligence Exchange	TIE	3.0.1	APPROVED	CRQ423562	CRQ423562	2020-12-02
McAfee	McAfee VirusScan Command Line		7.0.0	APPROVED	CRQ457188	CRQ457188	2022-02-02
McAfee	McAfee VirusScan Command Line		7.0.1	APPROVED	CRQ463913	CRQ463913	2022-04-13
McAfee	McAfee VirusScan Command Line		7.0.2	APPROVED	CRQ470746	CRQ470746	2022-08-03
McAfee	McAfee VirusScan Enterprise for Linux	VSE-L	1.9.2	LATO	NS/07833/2016 NIATC/07830/2016 RSS/07832/2016	PAN/07831/2016	2016-08-04
MCL	MCL-Link		3	APPROVED		PAN/02583/2011	2011-05-11
Free Open Source	MediaWiki		1.35	APPROVED		CRQ422678	2020-12-03
NATO	Message Air Gap		5.1.0	APPROVED	NS/01876/2010		2010-07-23
NATO	Message Checker		3.2.0	APPROVED	NS/01623/2010		2010-04-20
Metalogic Software Corporation	Metalogix Migration Manager		3.6.38	APPROVED	NS/01938/2010 IS/01937/2010		2010-08-31
Microfocus	Microfocus Network Automation		2019.5	APPROVED	CRQ383841	CRQ383841	2021-04-28
Microsoft	Microsoft Access		2016	APPROVED	HS/11567/2019	LS/11568/2019	2019-12-05
Microsoft	Microsoft Access		2010	LATO	CRQ433882		2021-02-16
Microsoft	Microsoft assessment and Planning Toolkit		9.9.13	APPROVED	CRQ437920	CRQ437920	2021-05-12
Microsoft	Microsoft Endpoint Configuration Manager		2203	APPROVED	CRQ467949	CRQ467949	2022-06-22
Microsoft	Microsoft Hotfix for Microsoft Endpoint Configuration Manager (MEMC)		2203 Update Rollup Installation	APPROVED	CRQ472783	CRQ472783	2022-08-03
Microsoft	Microsoft Office Online Server 2019		16.0.10338.20039	APPROVED	CRQ448851	CRQ448851	2022-02-23
Microsoft	Microsoft Office Professional Plus		2016	APPROVED	NS/09901/2019	PAN/09902/2018	2019-02-25
Microsoft	Microsoft Office Professional Plus		2013 SP1	APPROVED	CRQ410654	CRQ410654	2020-09-16
Microsoft	Microsoft Office Project Server		2013	APPROVED	NS/07950/2016		2016-09-27
Microsoft	Microsoft Office Proofing Tools		2016	APPROVED	NS/09903/2018	PAN/09904/2018	2019-02-25
Microsoft	Microsoft Office SharePoint Administration Toolkit		4	APPROVED	NS/02936/2011		2011-12-20
Microsoft	Microsoft Office SharePoint Content Deployment Wizard		2.8 BETA	APPROVED	NS/02809/2011		2011-09-05
Microsoft	Microsoft Office		2013 SP1	APPROVED		CRQ408565	2020-05-06
Microsoft	Microsoft Out of Band Patches Internet Explorer		SEP 2019	APPROVED	HS/11223/2019		2019-09-25
Microsoft	Microsoft Monthly Patches		MAY 2022	APPROVED	CRQ468649	CRQ468649	2022-05-20
Microsoft	Microsoft Powerpivot for Excel		2010	APPROVED	NS/05019/2013 IS/05017/2013	PAN/05018/2013	2013-04-11
Microsoft	Microsoft Project Portfolio		2007	APPROVED	NS/00809/2009		2009-06-23

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Microsoft	Microsoft Project Pro		2007 SP2	APPROVED	NS/01719/2010 IS/01720/2010	PAN/01721/2010	2010-05-25
Microsoft	Microsoft Project Pro		2010 SP2	APPROVED	NS/01824/2010 IS/01825/2010	PAN/01826/2010	2015-07-09
Microsoft	Microsoft Project Server 2010/ Enterprise Project Management		2010	LATO		CRQ453853	2021-10-27
Microsoft	Microsoft Project Std		2010 SP2	APPROVED	NS/02411/2011 IS/02412/2011	PAN/02413/2011	2015-07-09
Microsoft	Microsoft Remote Client		Version 1.2.x	APPROVED		CRQ416570	2020-09-18
Microsoft	Microsoft SharePoint Cross Site Display Web Part		1.0	APPROVED	NS/04550/2012		2013-02-18
Microsoft Custom Solution	Microsoft SharePoint Custom Solution-FullPermissionsReport console app 2013		1.0.0.0	APPROVED	CRQ423329	CRQ423329	2021-08-25
Microsoft Custom Solution	Microsoft SharePoint Custom Solution- WPS for PnP Provisioning 2013		1.3.8.4	APPROVED	CRQ457166	CRQ457166	2021-12-20
Microsoft Custom Solution	Microsoft SharePoint Custom Solution- WPS for Security 2013		1.2.0.0	APPROVED	CRQ423334	CRQ423334	2021-08-25
Microsoft Custom Solution	Microsoft SharePoint Custom Solution- WPS for the client side resource		1.0.18.2	APPROVED	CRQ457164	CRQ457164	2021-12-20
Microsoft	Microsoft SharePoint Designer		2007	APPROVED	NS/00304/2008 IS/01682/2010	PAN/00305/2008	2008-11-24
Microsoft	Microsoft SharePoint Designer		2010	APPROVED	NS/04094/2012 IS/06331/2014	PAN/06617/2015	2012-07-13
Microsoft	Microsoft SharePoint Designer		2010 SP2	APPROVED	NS/08106/2016		2016-10-28
Microsoft	Microsoft SharePoint Designer		2013 SP1	APPROVED	NS/08341/2016 NIATC/09234/2017 RSS/08525/2017 NGC/09233/2017	PAN/09067/2017	2017-04-20
Microsoft	Microsoft SharePoint Explorer for WSS 3.0		1.5.1	APPROVED	NS/01607/2010 IS/01608/2010		2010-06-29
Microsoft	Microsoft SharePoint Item Unilocker		11	APPROVED	NS/04012/2012 IS/04013/2012		2012-06-19
Microsoft	Microsoft SharePoint Server 2010		14.0.4763.1000	APPROVED	NS/02299/2010		2011-05-24
Microsoft	Microsoft SharePoint Server 2010 SP2		14.0.7015.1000	APPROVED	NS/06302/2014 IS/06303/2014	PAN/05819/2014	2015-04-07
Microsoft	Microsoft SharePoint/Project Server 2010 CU Apr 2021		14.0.7268.5000	APPROVED	CRQ438990	CRQ438990	2021-08-11
Microsoft	Microsoft SharePoint Server 2013		15.0.5301.1000	APPROVED	CR427058	CR427058	2021-03-26
Microsoft	Microsoft SharePoint Server 2013 CU Mar 2021		15.0.5327.1001	APPROVED	CRQ436812	CRQ436812	2021-06-18
Microsoft	Microsoft SharePoint Server 2013 CU Apr 2021		15.0.5337.1001	APPROVED	CRQ438992	CRQ438992	2021-08-11
Microsoft	Microsoft SharePoint Server 2016		16.0.5095.1000	APPROVED	CRQ427063	CRQ427063	2019-10-24
Microsoft	Microsoft SharePoint Server 2019		16.0.10337.12109	APPROVED	CRQ422502	CRQ422502	2021-03-31
Microsoft	Microsoft SharePoint Server 2016 CU Mar 2021		16.0.5149.1000	APPROVED	CRQ438991	CRQ438991	2021-08-11
Microsoft	Microsoft SharePoint Server 2019 CU Apr. 2021		16.0.10373.20000	APPROVED	CRQ438993	CRQ438993	2021-07-28
Microsoft	Microsoft SharePoint Server Subscription Edition		1	APPROVED	CRQ471628	CRQ471628	2022-07-13
Microsoft	Microsoft SharePoint SP Content Type Explorer		1.0	APPROVED	NS/01942/2010		2010-08-31
Microsoft	Microsoft SQL Server	SQL	2008 SP4	APPROVED	NS/07151/2015 RSS/07152/2015	PAN/07153/2015	2017-02-20
Microsoft	Microsoft SQL Server	SQL	2008 R2 SP3	LATO	NS/08292/2016 RSS/08641/2017	PAN/08293/2016	2017-02-20
Microsoft	Microsoft SQL Server	SQL	2016 SP1	APPROVED	NS/09046/2017 RSS/09047/2017	PAN/09048/2017	2018-05-23
Microsoft	Microsoft SQL Server	SQL	2012 SP4	LATO	CRQ447539	CRQ447539	2022-01-19
Microsoft	Microsoft SQL Server	SQL	2014 SP3	APPROVED	HS/10482/2019	LS/10483/2019	2019-06-07

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Microsoft	Microsoft SQL Server	SQL	2019	APPROVED	CRQ418205	CRQ418205	2020-10-30
Microsoft	Microsoft SQL Server 2008 Upgrade advisor		1.0	APPROVED	CRQ437921	CRQ437921	2021-05-05
Microsoft	Microsoft SQL Server 2019 Reporting Services	SQL	15.0	APPROVED	CRQ436442	CRQ436442	2021-04-28
Microsoft	Microsoft SQL Server Data Tools for Visual Studio	SSDT	15.9.0	APPROVED	HS/10429/2019	LS/10430/2019	2019-04-11
Microsoft	Microsoft SQL Server Management Studio		18.10	APPROVED	CRQ459058	CRQ459058	2022-02-09
Microsoft	Microsoft SQL Server Master Data Services 2019 Excel Add-in	MDS Excel Add-in	15.0.2000.5	LATO		CRQ455665	2021-12-15
Microsoft	Microsoft SQL Server Master Data Services 2016 Excel Add-in	MDS Excel Add-in	13.0.5030.56	LATO		CRQ455666	2021-12-15
Microsoft	Microsoft SSIS SharePoint List Adapters for SQL 2005 Add-on		1	APPROVED	NS/02959/2011 IS/02960/2011		2011-08-05
Microsoft	Microsoft Sysinternals Suite		1	APPROVED	NS/03802/2012 IS/03318/2011	PAN/03804/2012	2012-07-05
Microsoft	Microsoft Sysmon		13.30	LATO	CRQ458111	CRQ458111	2021-12-15
Microsoft	Microsoft System Center Configuration Manager	SCCM	1910	APPROVED	HS/11677/2020	LS/11678/2020	2020-01-31
Microsoft	Microsoft System Center Operation Manager	SCOM	2019	APPROVED	CRQ423765	CRQ423765	2021-02-25
Microsoft	Microsoft System Center Orchestrator	SCORCH	2016 UR6	APPROVED	HS/10637/2019	LS/10640/2019	2019-11-05
Microsoft	Microsoft System Center Orchestrator	SCORCH	Version 2019	APPROVED	CRQ421917	CRQ421917	2020-06-11
Microsoft	Microsoft URL Rewrite Module		2.1	APPROVED	CRQ423207	CRQ423207	2021-03-05
Microsoft	Microsoft URL Rewrite Module		5.1.4	APPROVED		CRQ410960	2021-04-07
Microsoft	Microsoft Visio 2016 Standard & Professional 32bits		2016	APPROVED	CRQ427044	CRQ427044	2020-12-11
Microsoft	Microsoft Visio Viewer		2010 SP1	APPROVED	NS/03102/2011	PAN/03103/2011	2011-11-03
Microsoft	Microsoft Visio Viewer		2016 (16.1.4339.1001)	APPROVED	CRQ417319	CRQ417319	2021-01-19
Microsoft	Microsoft Visual Studio Code		1.63.2	APPROVED	CRQ459225	CRQ459225	2022-02-09
Microsoft	Microsoft Volume Activation Services		2012 R2	APPROVED	NS/06291/2014	PAN/06292/2014	2014-09-09
Microsoft	Microsoft Windows 10 Enterprise		20H2	APPROVED	CRQ428158	CRQ428158	2020-04-28
Microsoft	Microsoft Windows 10 Enterprise LTSC		2016	APPROVED	HS/10254/2019		2019-02-14
Microsoft	Microsoft Windows 10 Enterprise LTSC		LTSC 2019	APPROVED	CRQ438750	CRQ438750	2021-05-26
Microsoft	Microsoft Windows 10 Enterprise (Build 21H2) 64bit en-US		(Build 21H2) 64bit en-US	APPROVED	CRQ467500	CRQ467500	2022-06-14
Microsoft	Microsoft Windows 7 Enterprise (32b)		SP1	LATO	NS/02493/2011 IS/02494/2011	PAN/02495/2011	2011-07-19
Microsoft	Microsoft Windows 7 Enterprise (64b)		SP1	APPROVED	NS/02542/2011 IS/02543/2011	PAN/02544/2011	2011-10-04
Microsoft	Microsoft Windows Mobile		6.5	APPROVED	NS/07287/2015		2015-12-03
Microsoft	Microsoft Windows Server		2012 R2	APPROVED	NS/05779/2014 IS/05780/2014	PAN/05781/2014	2014-07-14
Microsoft	Microsoft Windows Server		2016	APPROVED	NS/08510/2016 RSS/08511/2016	PAN/08509/2016	2017-10-23
Microsoft	Microsoft Windows Server		2019 Ver 1809 build 17763.1697	APPROVED	CRQ421476	CRQ421476	2021-03-25
Mindjet	MindManager		2018	APPROVED	NS/09614/2018	PAN/09615/2018	2018-08-01
Mindjet	MindManager Enterprise		2020	APPROVED	HS/11394/2019	LS/11395/2020	2020-08-19
NATO	Mine Counter Measures Exclusive Planning, Evaluation and Risk Tool	MCM EXPERT	7.1	APPROVED	HS/11674/2019		2020-07-08

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NCIA	Minimum Standard Enterprise Desktop Client Configuration Baseline Windows 10		2018.10	APPROVED	NS/10025/2018	PAN/10027/2018	2018-11-26
NCIA	Minimum Standard Enterprise Desktop Client Configuration Baseline Windows 7		2018.10	APPROVED	NS/10021/2018 RSS/10022/2018	PAN/10023/2018	2018-11-26
NCIA	Missing Pieces Software Solutions Remedy Restore Tool Professional		3.9	APPROVED	CRQ415998	CRQ415998	2020-12-15
Mobatec	Mobaxterm		2.2	APPROVED	NS/01684/2010 IS/01685/2010	IS/01685/2010	2010-09-23
Mobatec	Mobaxterm		3.2	APPROVED	NS/03205/2011 IS/03206/2011	IS/03206/2011	2012-06-11
Mobatec	Mobaxterm Professional Edition		20.1	APPROVED	CRQ410998	CRQ410998	2020-07-22
SOTI	MobiControl		14.1.6	APPROVED		PAN/09364/2018	2018-12-19
Ivanti	MobileIron Core		11.4.0.0	LATO		CRQ453126	2021-10-27
Mongo	MongoDB		3.6.8	LATO	CRQ414890	CRQ414890	2020-10-02
Mongo	MongoDB		4.4	APPROVED	CRQ413352	CRQ413352	2020-10-30
NATO	Motor Transportation Management	MTM	1.2.0	APPROVED		PAN/01139/2009	2009-11-23
Movavi	Movavi PowerPoint to Video Converter		2.1.1	APPROVED		PAN/04750/2013	2013-07-25
IBL Soft	Moving Weather	Moving Weather	1.6-9	APPROVED	NS/08359/2016 RSS/08360/2016 NGC/08362/2016	PAN/08361/2016	2017-07-04
IBL Soft	Moving Weather with Admin Tools	Moving Weather	1.6-9	APPROVED	NS/09241/2017 RSS/09242/2017 NGC/09244/2017	PAN/09243/2017	2017-12-19
IBL Soft	Moving Weather	Moving Weather	2.1.1	APPROVED	CRQ449615	CRQ449615	2022-03-23
Poseidon	MPS 800		REL. J4.6	APPROVED	NS/03114/2011	NGC/03115/2011	2013-04-04
Poseidon	MSE8000, MCU8510		4.1	APPROVED	NS/03117/2011	NGC/03116/2011	2013-04-04
NATION-GER	Multicash		3.22	APPROVED		PAN/02428/2011	2011-03-15
Oracle	My SQL Database		8.0.28	APPROVED	CRQ459779	CRQ459779	2022-01-25
MyVRM	MyVRM		2.8	APPROVED	NS/05213/2013 IS/05214/2013 NGC/05216/2013	PAN/05215/2013	2014-07-17
NetApp	N.E.T VX		4.9	APPROVED	NS/04900/2013 NGC/04899/2013 IS/04897/2013	NGC/04899/2013 IS/04897/2013	2013-03-15
NATO	NATO Automated Biometrics Identification System	NABIS	3.1.0	APPROVED	CRQ430857	CRQ430857	2021-03-01
NATO	NATO Automated Meteorological Information Services X	NAMIS X	4.3.5b	APPROVED	CRQ406278	CRQ406278	2020-05-18
NATO	NATO Automated Meteorological Information Services X	NAMIS X	4.3.5d	APPROVED	CRQ460395	CRQ460395	2022-03-30
NATO	NATO Business Card		1.0.1	APPROVED		CRQ470915	2022-06-22
NATO	NATO Common Operational Picture	NCOP	1.4.0	APPROVED	HS/11701/2020	LS/11702/2020	2020-05-26
NATO	NATO Common Operational Picture	NCOP	1.5.0	APPROVED	CRQ423116	CRQ423116	2021-03-05
NATO	NATO Common Operational Picture	NCOP	1.5.1	APPROVED	CRQ439206	CRQ439206	2021-06-30
NATO	NATO Common Operational Picture	NCOP	1.5.2	APPROVED	CRQ452767	CRQ452767	2021-11-24
NATO	NATO Common Operational Picture	NCOP	1.5.3	APPROVED	CRQ462323	CRQ462323	2022-02-18
NATO	NATO Common Operational Picture	NCOP	1.6.0	APPROVED	CRQ466990		2022-05-05
NCIA	NATO TOPFAS Crisis Response System Services	TOPFAS - NCRS	6.0.4	APPROVED	CRQ463898		2022-03-09
NATO	NATO e-Leave	e-Leave	1.0.1	APPROVED		CRQ454698	2022-01-25

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Everis	NATO Emitter Database - Next Generation	NEDB-NG	1.0.0	APPROVED	CRQ451784		2022-02-23
NATO	NATO Enterprise Directory Service	NEDS	2.3.0	APPROVED	CRQ397906		2020-03-05
NATO	NATO Enterprise Directory Service	NEDS	2.3.11B	APPROVED	CRQ408600	CRQ408600	2020-05-04
NATO	NATO Enterprise Document Management System	EDMS	1.7.10	APPROVED	CRQ440619	CRQ440619	2021-06-09
NATO	NATO Enterprise Document Management System	EDMS	1.7.11	APPROVED	CRQ442110	CRQ442110	2021-09-23
NATO	NATO Enterprise Document Management System	EDMS	1.7.13	APPROVED	CRQ457106	CRQ457106	2022-01-05
NATO	NATO Enterprise Document Management System	EDMS	1.7.15	APPROVED	CRQ461068	CRQ461068	2022-02-23
NATO	NATO Force Generation Management Tool	FGMT	6.0	APPROVED	NS/04006/2012		2012-11-06
NATO	NATO Information Portal	NIP	1.5.19	LATO	CRQ459884		2022-02-02
NATO	NATO Information Portal	NIP	1.5.20	LATO	CRQ461078		2022-02-15
NATO	NATO Information Portal	NIP	1.5.21	APPROVED	CRQ465651		2022-05-11
NATO	NATO Information Portal	NIP	1.5.22	APPROVED	CRQ468239		2022-05-18
NATO	NATO Information Portal	NIP	1.5.23	APPROVED	CRQ471699		2022-07-20
NATO	NATO Infosec Accounting and Management Database	CARDS	5.4.16	APPROVED	HS/10351/2019		2019-11-25
NCIA	NATO Installation Access Control System	NIACS	2.0.3	APPROVED		LS/10906/2019	2019-10-15
NCIA	NATO Installation Access Control System	NIACS	2.0.5	APPROVED		CRQ436481	2021-08-04
NCIA	NATO Installation Access Control System	NIACS	2.0.6	APPROVED		CRQ450741	2022-04-06
NCIA	NATO Integrated Command and Control Software for Air Operations	ICC	3.4.0.0004	APPROVED	CRQ409319	CRQ409319	2020-09-10
NCIA	NATO Integrated Command and Control Software for Air Operations	ICC	3.4.1.0002	APPROVED	CRQ436724	CRQ436724	2021-03-31
NCIA	NATO Integrated Command and Control Software for Air Operations	ICC	3.4.2.0001	APPROVED	CRQ468251	CRQ468251	2022-05-11
NCIA	NATO Integrated Command and Control Software for Air Operations	ICC	3.5.0.0003	APPROVED	CRQ466523	CRQ466523	2022-05-25
NCIA	NATO Integrated Command and Control Software for Air Operations	ICC	3.4.3	LATO	CRQ472770	CRQ472770	2022-07-13
NATO	NATO Integrated Secure Platform	NISP	5.0.0	APPROVED	CRQ428323	CRQ428323	2021-06-02
NATO	NATO Integrated Secure Platform	NISP	5.0.1	APPROVED	CRQ437383	CRQ437383	2021-06-02
NATO	NATO Integrated Secure Platform	NISP	5.0.1 Security Update Apr. 2021	APPROVED	CRQ443247	CRQ443247	2021-06-29
NATO	NATO Integrated Secure Platform	NISP	5.0.0 Oracle Linux Critical Patch Update May 2021	APPROVED	CRQ443248	CRQ443248	2021-06-23
NATO	NATO Integrated Secure Platform	NISP	5.0.0 Oracle Linux Critical Patch Update Jul 2021	APPROVED	CRQ446642	CRQ446642	2021-08-11
NATO	NATO Integrated Secure Platform	NISP	5.0.1 Security Update Jul. 2021	APPROVED	CRQ446643	CRQ446643	2021-08-11
NATO	NATO Integrated Secure Platform	NISP	5.1.0 Oracle Linux	APPROVED	CRQ459070	CRQ459070	2022-02-02
NATO	NATO Integrated Secure Platform	NISP	5.1.0 Oracle Solaris	APPROVED	CRQ457501	CRQ457501	2022-02-02
NATO	NATO Integrated Secure Platform	NISP	5.1.2 Oracle Linux	APPROVED	CRQ468396	CRQ468396	2022-06-15
NATO	NATO Integrated Secure Platform	NISP	5.1.2 Oracle Solaris	APPROVED	CRQ468398	CRQ468398	2022-06-15
NATO	NATO Intelligence Toolbox	NITB	3.4.5	APPROVED	NS/08331/2016 RSS/08332/2016		2017-02-02
NATO	NATO Medical Suite - Medical Management	MEDSuite-MM	1.1.0	APPROVED	CRQ452466	CRQ452466	2022-01-05

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NNPS	NATO Nuclear Planning System	NNPS	18.2.0	LATO	CRQ468815		2022-06-22
NATO	NATO Personnel Management Information System	PMIS	3.3	APPROV ED	NS/00044/2008		2003-08-01
NATO	NATO Planning and Tasking Tool for Extended Air Defence	PLATO	3.1.0.9	APPROV ED	NS/02725/2011		2011-11-15
NATO	NATO Records Center	RECCEN	1.9.0	APPROV ED	CRQ436719	CRQ436719	2022-04-06
NATO	NATO Release Server		2.1.0	APPROV ED	CRQ409521		2020-08-26
NATO	NATO TOPFAS Response Force Readiness Reporting Tool	TOPFAS - RRT	6.0.7	APPROV ED	CRQ469632		2022-06-02
NATO	Secure Joint Tactical Chat Client	JCHAT CLIENT	2.4.1	APPROV ED	CRQ444242	CRQ444242	2021-07-14
NATO	Secure Joint Tactical Chat Client	JCHAT CLIENT	2.5.0	APPROV ED	CRQ458673		2022-01-27
NATO	NATO Shared Early Warning	SEW	3.0.0	APPROV ED	NS/09316/2017		2018-03-14
NATO	NATO Shared Early Warning	SEW	3.1.0	APPROV ED	CRQ463482		2022-03-21
AMDC2 CSI Team	NATO Shared Early Warning Enhanced Integrator	SEW+I	18.5 R2.294	APPROV ED	CRQ4518197		2021-12-15
NATO	NATO Ship Shore Ship Buffer	SSSB	2.0	APPROV ED	CRQ453269		2022-01-25
NATO	NATO Tasker Tracker Plus	TT+	1.9.6	APPROV ED	CRQ440786	CRQ440786	2021-06-02
NATO	NATO Tasker Tracker Plus	TT+	1.9.7	APPROV ED	CRQ440618	CRQ440618	2021-06-02
NATO	NATO Tasker Tracker Plus	TT+	1.9.8	APPROV ED	CRQ444443	CRQ444443	2021-09-23
NATO	NATO Tasker Tracker Plus	TT+	1.9.9	APPROV ED	CRQ456854	CRQ456854	2022-01-05
NATO	NATO Tasker Tracker Plus	TT+	1.9.10	APPROV ED	CRQ461075	CRQ461075	2022-02-23
NATO	NATO TRITON	TRITON	1.16.4	LATO	CRQ467116	CRQ467116	2022-04-14
NATO	NATO VLF MSK Broadcast Control Station	BCS	1.0	APPROV ED	NGC/04423/2012	NGC/04423/2012	2013-06-28
NATO	Naval Merchant Shipping Information System	NAMESIS	2.5	APPROV ED		PAN/02821/2011	2011-12-02
NATION-USA	NAVFIT98A		98A	APPROV ED		PAN/02231/2010	2010-10-28
Bruhn NewTech	NBC Analysis		11.2	APPROV ED	NS/02470/2011 IS/02471/2011	PAN/02472/2011	2011-04-15
TMS	NBC Evaluation and Warning System	NEWS	3.6.0	APPROV ED	NS/08265/2016 RSS/08266/2016	PAN/08267/2016	2017-04-19
NCIA	NCIA Data Diode Solution - BAE	DDS	3.6.5	APPROV ED	NS/04876/2013 COI/05472/2013 IS/04877/2013 NGC/04881/2013	PAN/04879/2013	2013-07-24
NCIA	NCIA Data Diode Solution - FOX-IT / Fox Daradiode Core		3.4.3	APPROV ED	CRQ470209	CRQ470209	2022-07-27
NCIA	NCIA HQ Collaboration Portal		1.0	APPROV ED	NS/00234/2008		2008-12-04
Finmeccanica	NCIRC Full Package Capture toolset	FPC	1.0	APPROV ED	NS/04476/2012 NIATC/05079/2013 NGC/04478/2012	PAN/04477/2012	2014-07-15
NATO	NCIRC GPO OVA		1.1	APPROV ED	NS/05956/2014 NIATC/05958/2014	PAN/05957/2014	2015-03-30
NCIRC	NCIRC Incident Management Service Toolbox	IMS	1.1	APPROV ED	NIATC/08964/2017	NIATC/08964/2017	2017-07-25
NCIRC	NCIRC Incident Management Service Toolbox	IMS	1.3	LATO	hs/11471/2019	Is/11472/2019	2019-11-20
Finmeccanica	NCIRC Log Aggregation toolset	LOGA	1.0	APPROV ED	NS/04479/2012 NIATC/05590/2013	PAN/04480/2012	2014-07-15
NCIA	NCIRC OnLine VA Tool suite		1.0	APPROV ED	NS/00629/2009 IS/00630/2009		2009-05-04
NCIRC	NCIRC Tier 2 Infrastructre		1.0	APPROV ED	NIATC/05071/2013	NIATC/05071/2013	2014-09-10

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NCIRC	NCIRC Tier 3 Enclaves Infrastructure		1.0	APPROVED	NIATC/05072/2013	NIATC/05072/2013	2014-09-10
NCIRC	NCIRC Toolset Standalone Computer Forensics & Evidence Management		1.0	APPROVED	NS/04449/2012 NIATC/05110/2013	NIATC/05110/2013	2013-11-04
NATO	NATO Networked Interoperable Real-Time Information Services	NIRIS	3.10	LATO	CRQ456736		2021-12-15
NCIA	NDSS CustrEQ WEB Portal		4.1.1	APPROVED		PAN/02662/2011	2011-08-05
NCIA	NDSS Integration on BI-SC AIS		STEP 1	APPROVED		PAN/01588/2010	2010-05-20
NATO	NEC CCIS - ICC System Interface	NISI	5.4.0	APPROVED	NS/08726/2017		2017-07-03
NATO	NEC CCIS - ICC System Interface	NISI	5.6.0	APPROVED	HS/09899/2018		2019-07-09
Tenable	Nessus		10.2.0	APPROVED	CRQ471660	CRQ471660	2022-06-29
Tenable	Nessus Agent		10.1.3	APPROVED	CRQ468773	CRQ468773	2022-05-25
Tenable	Nessus Agent		10.1.4	APPROVED	CRQ471672	CRQ471672	2022-06-29
NetApp	NetApp Software Update		3	APPROVED	NS/06852/2015 RSS/06853/2015	PAN/06854/2015	2015-07-29
NATO	Netbanner		1.3.39.0	APPROVED	NS/01678/2010	PAN/01679/2010	2010-08-05
Netscout	Netscout nGeniusOne		6.2	APPROVED	HS/10742/2019	LS/10743/2019	2020-04-21
Netscout	Netscout nGeniusONE Infinistream		4.7	APPROVED	NGC/00506/2009	NGC/00506/2009	2010-04-27
Netscout	Netscout nGeniusONE Performance manager		5.2.1	APPROVED	NS/06244/2014 IS/06245/2014 NGC/06247/2014	PAN/06246/2014	2015-04-24
Netscout	Netscout TruView		11.1	APPROVED	NS/08548/2017		2017-07-28
NetSupport	NetSupport Notify		2.01	APPROVED	NS/05151/2013 IS/03190/2011	PAN/05152/2013	2011-12-02
Netuitive	Netuitive		6.2 SP2	APPROVED	NS/06976/2015 RSS/06977/2015	PAN/06978/2015	2016-05-06
NATION-GER	Netview.X		1	APPROVED	NS/01142/2009		2009-11-12
SolarWinds	Network Configuration Manager	(NCM)	2020.2.5	APPROVED	CRQ434085	CRQ434085	2021-08-25
SolarWinds	Network Performance Monitor	(NPM)	2020.2.5	APPROVED	CRQ434087	CRQ434087	2021-08-25
Microsoft	Network Time Protocol - Time Server Utilities	NTP	1.04	APPROVED	NS/02678/2011		2012-06-26
SolarWinds	Network Traffic Analyzer	(NTA)	2020.2.5	APPROVED	CRQ434150	CRQ434150	2021-08-25
NATO	NATO Networked Interoperable Real-Time Information Services	NIRIS	3.11.0	APPROVED	HS/11170/2019	LS/11171/2019	2020-03-09
NATO	NATO Networked Interoperable Real-Time Information Services	NIRIS	4.0	APPROVED	CRQ410430	CRQ410430	2020-07-03
NATO	NATO Networked Interoperable Real-Time Information Services	NIRIS	4.0.1	APPROVED	CRQ427993	CRQ427993	2020-12-18
NATO	NATO Networked Interoperable Real-Time Information Services	NIRIS	4.1.0	APPROVED	CRQ441609	CRQ441609	2021-06-25
NATO	NATO Networked Interoperable Real-Time Information Services	NIRIS	4.1.1	APPROVED	CRQ454771	CRQ454771	2021-11-17
NATO	NATO Networked Interoperable Real-Time Information Services	NIRIS	4.2.0	APPROVED	CRQ472904	CRQ472904	2022-08-03
Nexor	Nexor Sentinel MailGuard		3.2.1	APPROVED	NGC/03248/2011	NGC/03248/2011	2012-10-25
Nexor	Nexor Sentinel MailGuard		3.6	APPROVED	CRQ422672	CRQ422672	2021-08-11
NIKSUN	Niksun NetDetector Appliance		4.3.0.0.2	APPROVED	NIATC/05173/2013		2013-08-30
NIKSUN	Niksun NetDetector/NETVCR Appliance		4.0	APPROVED	NS/01744/2010 IS/01745/2010	PAN/01746/2010	2010-06-24

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Nimsoft	Nimbus server		3.35 R1	LATO	NS/00360/2008		2009-01-26
Oracle	NNCS2 - Oracle Froms & Reports Patch		10.1.2.3	APPROVED	NS/05539/2013		2013-10-28
NOKIA	NOKIA Network Services Platform		19.3	APPROVED		CRQ435428	2021-05-19
NATO	Northern European Command - Command and Control Information System	NEC CCIS	18.3.0	LATO	CRQ415356		2020-11-03
NATO	Northern European Command - Command and Control Information System	NEC CCIS	18.8.0	APPROVED	CRQ452552		2021-11-10
NATO	Northern European Command - Command and Control Information System	NEC CCIS	19.0.0	APPROVED	CRQ464752		2022-06-22
Northern	Northern Storage Suite		3008.27.91	APPROVED	NS/01567/2010		2010-08-31
Notepad++	Notepad++		8.1.7	APPROVED	CRQ453147	CRQ453147	2021-11-10
NSX	NSX for Vsphere		6.4.5	APPROVED	HS/10794/2019	LS/10795/2019	2019-11-14
Neuxpower	NXPowerlite		9.1.2	APPROVED	CRQ469479	CRQ469479	2022-06-13
OBOR	Obor Zeus Enterprise		5.1.8	APPROVED	CRQ418208		2021-02-22
OBOR	Obor Zeus Enterprise		5.1.8.19211	APPROVED	CRQ451336		2021-12-08
Omninet	Omnitracker		10.8.0	APPROVED	NS/09323/2018		2018-04-06
Alcatel	OmniVista 8770		2.6	APPROVED		PAN/07834/2016	2016-09-02
NetApp	OnCommand Unified Manager		5.1	APPROVED	NS/05026/2013 IS/05027/2013	PAN/05028/2013	2013-07-24
NetApp	OnCommand Unified Manager		7.3	APPROVED	NS/10101/2018		2020-02-07
NCIA	Online Analyzer for Networked Tactical Data	OANT	2.6.0	APPROVED	NS/10131/2018 RSS/10132/2018		2019-05-16
NCIA	Online Analyzer for Networked Tactical Data	OANT	2.7.0	APPROVED	CRQ424224		2021-02-22
Finmeccanica	Online Computer Forensic Toolset	OCF	1.0	APPROVED	NS/04471/2012 NIATC/05081/2013	PAN/04472/2012	2014-09-11
Finmeccanica	Online Vulnerability Assesment Toolset	OVA	1.0	APPROVED	NS/04473/2012 NIATC/05078/2013	PAN/04474/2012	2014-09-11
NetApp	ONTAP	ONTAP	7.2.3	APPROVED	NS/00536/2009		2012-04-25
NetApp	ONTAP	ONTAP	8.1.4	APPROVED	NS/06831/2015 RSS/06832/2015	PAN/06833/2015	2015-06-25
NetApp	ONTAP	ONTAP	9.2	APPROVED	NS/10065/2018 RSS/10066/2018	PAN/10067/2018	2019-05-15
NetApp	ONTAP	ONTAP	9.10	APPROVED	CRQ463215	CRQ463215	2022-03-09
Open Text	Opentext Tableau Forensic Imager TX1		21.1	LATO	CRQ456120	CRQ456120	2021-12-01
Hummingbird	OpenText Exceed Turbo X		11.5	LATO	NS10294/2019		2019-11-14
Oracle	Oracle Analytics Server	OAS	6.4	APPROVED	CRQ471136	CRQ471136	2022-06-22
Oracle	Oracle Apex		19c	APPROVED	CRQ418211	CRQ418211	2020-11-17
Oracle	Oracle Apex		20X	APPROVED	CRQ418212	CRQ418212	2020-11-17
Oracle	Oracle Application Express (APEX)		21.2	APPROVED	CRQ472913	CRQ472913	2022-07-27
Oracle	Oracle Application Server 10G		10.1.3.5	APPROVED	NS/03293/2011 IS/03295/2011	PAN/03294/2011	2012-03-22
Oracle	Oracle Automation Manager		1.0	APPROVED	CRQ455284	CRQ455284	2021-12-08
Oracle	Oracle Clusterware		12.2.0.1.0	LATO	CRQ441026		2015-06-16
Oracle	Oracle Business Intelligence Suite Enterprise Edition		12.2.1.4.0	APPROVED	CRQ470796	CRQ470796	2022-06-22

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Oracle	Oracle Data Integrator Enterprise Edition for Oracle Applications		12.2.1.3.0	APPROVED	CRQ470766	CRQ470766	2022-06-22
Oracle	Oracle Database		19C	APPROVED	CRQ405535	CRQ405535	2020-10-06
Oracle	Oracle Database		12.2.0.1	LATO	CRQ467727	CRQ467727	2022-05-03
Oracle	Oracle Dataguard		12.1	APPROVED	CRQ413370	CRQ413370	2021-03-05
Oracle	Oracle Enterprise Manager Cloud Control		13c	APPROVED	CRQ418910	CRQ418910	2021-02-15
Oracle	Oracle Forms & Reports		12c	APPROVED	CRQ418210	CRQ418210	2021-01-14
Oracle	Oracle Java SE - Java Development Kit	JDK	11.0.14	APPROVED	CRQ453436	CRQ453436	2021-11-17
Oracle	Oracle Java SE - Java Runtime Environment	JRE	8U321	APPROVED	CRQ453436	CRQ453436	2021-11-17
Oracle	Oracle Linux		7.2	APPROVED	NS/07692/2016	PAN/07693/2016	2017-08-31
Oracle	Oracle Linux		8.x	APPROVED	CRQ448946	CRQ448946	2021-11-17
Oracle	Oracle Linux Manager		2.10	APPROVED	CRQ455262	CRQ455262	2021-12-08
Oracle	Oracle Linux Patches		7.x January 2022	APPROVED	CRQ462324B	CRQ462324B	2022-03-02
Oracle	Oracle CPU (Technology Products) Patches . Oracle Quaterly Patches April 2022, MySQL 8.0.29, Java JRE 8u331, Java JDK 11.0.15		April 2022	APPROVED	CRQ467644	CRQ467644	2022-05-03
Oracle	Oracle WebLogic Forms and Reports 11G		11.1.1.3	APPROVED	NS/03302/2011 IS/03303/2011		2012-03-22
Oracle	Oracle WebLogic Server		12C	APPROVED	CRQ418203	CRQ418203	2020-12-02
Oracle	Oracle WebLogic Server		14C	APPROVED	CRQ418204	CRQ418204	2020-12-02
SolarWinds	Orion Platform		2020.2.5	APPROVED	CRQ434078	CRQ434078	2021-08-25
SolarWinds	Orion Platform & Modules		2020.2.6 Hotfix 2	APPROVED	CRQ454794	CRQ454794	2021-11-24
Oxygen	Oxygen XML Author		22.1	APPROVED		CRQ419801	2021-01-07
Oxygen	Oxygen XML Editor		22.1	APPROVED		CRQ419804	2021-02-16
Other	Paint.net		4.0.9	APPROVED	NS/08012/2016 RSS/08013/2016	PAN/08014/2016	2016-08-12
Palo Alto	Palo Alto Global Protect		5.2.4	APPROVED		CRQ426483	2022-01-05
Pandacom	Pandacom FCT-SYN-V.35-A		NA	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Palo Alto	Panorama PAN-OS		8.1.8H5	APPROVED	HS/10996/2019	LS/10997/2019	2019-12-17
Palo Alto	Panorama PAN-OS		8.1.11	APPROVED	HS/11590/2019	LS/11591/2019	2019-12-17
Palo Alto	PAN-OS		8.1.20	APPROVED	CRQ449646	CRQ449646	2021-09-15
Palo Alto	PAN-OS		8.1.23	APPROVED	CRQ468582	CRQ468582	2022-05-18
Palo Alto	PAN-OS		9.1.12	APPROVED	CRQ456573	CRQ456573	2021-12-08
Palo Alto	PAN-OS		9.1.13	APPROVED	CRQ468809	CRQ468809	2022-05-25
Palo Alto	PAN-OS		10.1.3	APPROVED	CRQ456576	CRQ456576	2021-12-08
Palo Alto	PAN-OS		10.1.5	APPROVED	CRQ468809	CRQ468809	2022-05-25
Passware	Passware Kit Forensic		2021.1.3	LATO	CRQ456113	CRQ456113	2021-12-01
Patch Manager	Patch Manager		6.2	APPROVED		CRQ416556	2020-10-22

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Patch Manager	Patch Manager		6.3	APPROVED	CRQ461201	CRQ461201	2022-02-16
NATION-USA	Performance Evaluation System	PES	1	APPROVED		PAN/02365/2011	2011-01-06
Perl	Perl		5.12	APPROVED	NS/02051/2010 NGC/02053/2010	PAN/02052/2010	2010-09-27
ADP	Perman		3.3	APPROVED		PAN/00231/2008	2009-08-25
NATO	þý Personal Computer Teletype	PC-TTY	5.0.1	APPROVED	NS/00039/2008		2007-08-01
SSBA	Personal Document Loader (Client)	PDL	2.3.1.0	APPROVED		CRQ447863	2022-03-09
NATION-NLD	Phoenix		3.20	APPROVED		PAN/00916/2009	2009-08-05
ALH	PILAR	NATO PILAR	5.4	APPROVED	NS/05903/2014 NIATC/05907/2014 IS/05904/2014	NIATC/05907/2014	2014-03-21
ALH	PILAR	NATO PILAR	2022.1	LATO	CRQ461003	CRQ461003	2022-04-20
ALH	PILAR Micro	mPILAR	5.4	APPROVED	NS/05908/2014 NIATC/05912/2014 IS/05909/2014	NIATC/05912/2014	2014-03-21
ALH	PILAR Micro	mPILAR	2022.1	LATO	CRQ461004	CRQ461004	2022-04-20
NCIA	PKCS Card Manager		1.0	APPROVED	CRQ424126	CRQ424126	2021-01-07
Plumsail	Plumsail SharePoint Org Chart		3.5.18	APPROVED		CRQ452876	2022-03-16
NATO	PMIS Web Access Client	PMIS	4.0	APPROVED	NS/05902/2014		2014-05-27
Microsoft	PnP Powershell		3.14.1910	APPROVED		LS/11270/2019	2019-10-16
Microsoft	PnP Provisioning Engine		1.0	APPROVED	CRQ409515	CRQ409515	2021-03-31
Polycom	Polycom DMA Distributed Media Application	DMA	10.0.0.5	APPROVED	HS/11483/2019	LS/11484/2019	2020-08-10
Polycom	Polycom HDX Series Software	HDX	3.1.14	APPROVED	HS/11380/2019	LS/11381/2019	2020-02-27
Polycom	Polycom HDX System	HDX	7000	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom HDX System	HDX	7002XLP	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom HDX System	HDX	8000	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom HDX System	HDX	9000	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom HDX System	HDX	9001	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom HDX System	HDX	9002	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom HDX System	HDX	9004	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom MGC Manager Software	MGC	9.0.3	APPROVED	NS/01180/2009 NGC/01276/2009		2010-03-22
Polycom	Polycom MGC Series Software	MGC	9.0.3	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom MGC System	MGC	-50	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom MGC System	MGC	-100	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom MGC System	MGC	50	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom MGC System	MGC	100	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom Multipoint Layout Application	MLA	3.1.6.3	APPROVED	HS/11387/2019	LS/11388/2019	2020-09-03
Polycom	Polycom RealPresence Access Director System	RPAD	4.2.4	APPROVED	NS/08495/2016 RSS/08496/2016 NGC/08498/2016	PAN/08497/2016	2017-08-29

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Polycom	Polycom RealPresence Access Director System	RPAD	4.2.5.1	APPROVED	NS/09570/2018 RSS/09571/2018 NGC/09573/2018	PAN/09572/2018	2018-10-08
Polycom	Polycom RealPresence Collaboration Server RMX		8.9	APPROVED	CRQ408299	CRQ408299	2020-08-20
Polycom	Polycom RealPresence DESKTOP for Windows		3.10.4	APPROVED	CRQ414029	CRQ414029	2020-08-13
Polycom	Polycom RealPresence Desktop		3.11.3	APPROVED	CRQ442161	CRQ442161	2021-06-16
Polycom	Polycom RealPresence Distributed Media Application 7000	DMA	10.0.0.9	APPROVED	CRQ446926	CRQ446926	2021-08-11
Polycom	Polycom RealPresence Group Series		6.1.2	APPROVED	NS/09162/2017 RSS/09163/2017 NGC/09165/2017	PAN/09164/2017	2017-11-15
Polycom	Polycom RealPresence Group Series		6.1.7	APPROVED	NS/09815/2018 RSS/09816/2018 NGC/09818/2018	PAN/09817/2018	2018-09-12
Polycom	Polycom RealPresence Group Series		6.2.2.6	APPROVED	CRQ437351	CRQ437351	2021-04-28
Polycom	Polycom RealPresence Media Suite		2.7	APPROVED	NS/08281/2016 RSS/08282/2016 NGC/08284/2016	PAN/08283/2016	2017-08-24
Polycom	Polycom RealPresence Media Suite		2.8.2	APPROVED	CRQ429215	CRQ429215	2021-01-15
Polycom	Polycom RealPresence Resource Manager	RPRM	10.7	APPROVED	HS/11375/2019	LS/11376/2019	2020-09-03
Polycom	Polycom RealPresence Resource Manager	RPRM	10.9.0.1	APPROVED	CRQ435472		2021-03-12
Polycom	Polycom RMX	RMX	2000	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom RMX	RMX	8.5.3	APPROVED	NS/07173/2015 RSS/07174/2015 NGC/07176/2015	PAN/07175/2015	2016-04-14
Polycom	Polycom RMX 4000	RMX	7.8.0.246	APPROVED	NS/04779/2013 IS/04780/2013 NGC/04783/2013	PAN/04782/2013	2013-11-07
Polycom	Polycom RSS 4000	RSS	8.5.1	APPROVED	NS/05497/2013 IS/05498/2013 NGC/05500/2013	PAN/05499/2013	2013-10-15
Polycom	Polycom VSX Series Software	VSX	9.0.5.2	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom VSX Series Software	VSX	9.0.5.1	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom VSX Series Software	VSX	9.0.5	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom VSX Series Software	VSX	9.0.1	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom VSX Series Software	VSX	8.7.5	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom VSX Series Software	VSX	8.7.1a	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom VSX Series Software	VSX	8.5.2	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom VSX Series Software	VSX	8.5.1	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom VSX Series Software	VSX	8.0.3	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom VSX Series Software	VSX	8.0.1.2	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom VSX Series Software	VSX	8.7	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom VSX Series Software	VSX	8.5	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom VSX Series Software	VSX	8	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom VSX System	VSX	3000	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom VSX System	VSX	7000	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom VSX System	VSX	7000A	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
Polycom	Polycom VSX System	VSX	7000E	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20

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Polycom	Polycom VSX System		8000	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
PostgreSQL	PostgreSQL Database Management System		13.5	APPROVED	CRQ459221	CRQ459221	2022-02-09
Microsoft	Power BI Desktop		2.93	APPROVED	CRQ446699	CRQ446699	2021-09-15
Microsoft	Power BI Desktop		2.97	APPROVED	CRQ452980	CRQ452980	2021-11-17
Microsoft	Power BI Desktop		2.105	APPROVED	CRQ470750	CRQ470750	2022-07-20
Microsoft	Power BI Report Server		1.9	APPROVED	CRQ424421	CRQ424421	2021-01-07
Microsoft	Power BI Report Server		1.14	APPROVED	CRQ470749	CRQ470749	2022-06-22
Microsoft	Power BI Report Builder		15.7	APPROVED	CRQ472249	CRQ472249	2022-07-27
Microsoft	Power BI Server		1.12.7977.29537	APPROVED	CRQ452979	CRQ452979	2021-11-17
SAP - Sybase	PowerDesigner Viewer		16.6	APPROVED		CRQ430750	2021-02-25
APC	PowerChute Business Edition		10.0.2	LATO	CRQ456117	CRQ456117	2021-12-01
NewSoft Technology Corporation	Presto PageManager		7	APPROVED	NS/01579/2010	PAN/01578/2010	2010-04-01
Prezi	Prezi Desktop Pro		4.0.4	APPROVED		PAN/04650/2012	2013-11-22
NATO	Privately Owned Motor Vehicle Registration Identification and Access Management Overarching System	PRIAMOS	1.0	APPROVED		PAN/08291/2016	2018-04-20
NATO	Project Implementation Tracking Tool	PITT	2.0	APPROVED	HS/10426/2019		2019-04-11
NATO	Project Implementation Tracking Tool	PITT	2.0.2	APPROVED	CRQ453538		2021-11-24
Community (Open Source)	Prometheus		2.36	LATO		CRQ471511	2022-06-29
Promina	Promina code		4.X4.01	APPROVED	NGC/00597/2009	NGC/00597/2009	2010-07-08
Primera	PTPublisher for PC		2.1.8	APPROVED	NS/03604/2012	PAN/03605/2012	2012-03-12
Pulse Secure	Pulse Secure Services Director		20.1	APPROVED	HS/11643/2019		2020-12-10
Pulse Secure	Pulse Secure Virtual Traffic Manager		20.1	APPROVED	HS/11639/2019	HS/11640/2019	2020-12-10
Pulse Secure	Pulse Secure Virtual Traffic Manager		21.4	APPROVED	CRQ467185	CRQ467185	2022-07-06
PureEdge Solutions	Pure Edge Viewer		6.5	APPROVED		PAN/01067/2009	2009-09-04
PuTTY	PuTTY		0.73	APPROVED	CRQ408193	CRQ408193	2020-04-24
Python Software Foundation	Python		3.10.5	APPROVED	CRQ471211	CRQ471211	2022-07-06
Python	Python 2.7 PySimpleSOAP		1.05 A	APPROVED	NS/04504/2012 NIATC/05581/2013	PAN/04505/2012	2013-11-06
Python	Python 2.7 PyXML		0.8.4	APPROVED	NS/04506/2012 NIATC/05582/2013	PAN/04507/2012	2013-11-06
Python.org	Python Environment		3.9.5	LATO	CRQ456124	CRQ456124	2021-12-01
Quest Software	Quest Toad for Oracle		15.1	APPROVED	CRQ460443	CRQ460443	2022-02-23
Quest Software	Quest Toad for SQL Server		7.2	APPROVED	CRQ430505	CRQ430505	2021-05-19
Intuit	QuickBooks Pro		2013	APPROVED		PAN/05668/2013	2014-02-03
Other	R for Windows		3.5.2	APPROVED	HS/10382/2019	LS/10383/2019	2019-04-11
Other	R for Windows and Libraries		4.1.3	LATO	CRQ465840	CRQ465840	2022-04-13

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Other	R_SOFTWARE		3.3.0	APPROVED	NS/08021/2016 RSS/08023/2016	PAN/08022/2016	2017-02-08
RAD	Rad FOM40		NA	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
RAD	RADview Megaplex MP-2100 software		13.05.06	APPROVED		CRQ447293	2021-08-25
NATO	Radar Electronic warfare And communications system Coverage Tool	REACT	1.2.1	APPROVED	NS/01704/2010		2010-09-02
NATO	Radar Electronic warfare And communications system Coverage Tool	REACT	2.1.0	APPROVED	CRQ462945	CRQ462945	2022-03-02
Finmeccanica	Rapid Reaction Team Toolset	RRT	1.0	APPROVED	NS/04464/2012 NIATC/05076/2013	PAN/04465/2012	2014-09-11
RDPSoft	RDPSoft RD Commander Suite		4.7	APPROVED	HS/11211/2019	LS/1211/2019	2020-07-03
RDPSoft	RDPSoft RD Commander Suite		6.0	LATO	CRQ468021	CRQ468021	2022-05-18
RealVNC	Realvnc Enterprise Edition		5.0.2	LATO	COI/05256/2013		2013-11-14
Red Gate	Red Gate SQL Monitor		12.0	APPROVED	CRQ458251	CRQ458251	2022-02-09
Red Hat	Red Hat Enterprise Linux		6.x	APPROVED	NGC/06532/2014 NIATC/06264/2014	NGC/06532/2014 NIATC/06264/2014	2014-10-02
Red Hat	Red Hat Enterprise Linux		7.x	APPROVED	NS/07722/2016 NIATC/07792/2016	PAN/07723/2016	2017-05-08
Red Hat	Red Hat Enterprise Linux		8.x	APPROVED	CRQ421628	CRQ421628	2021-11-18
Red Hat	Red Hat/Oracle Enterprise Linux Patches	RHEL	7.x May 2022	APPROVED	CRQ471198	CRQ471198	2022-07-06
Red Hat	Red Hat/Oracle Enterprise Linux Patches	RHEL	8.x May 2022	APPROVED	CRQ471242	CRQ471242	2022-07-06
Red Hat	Red Hat Satellite Server		6.9	APPROVED	CRQ441374	CRQ441374	2021-10-27
NATO	Relational NATO Emitter Database	RNEDB	1.0	APPROVED	NS/03970/2012		2012-05-11
Canon	Remote Operation Viewer		2.3.0	APPROVED	CRQ454049	CRQ454049	2021-12-01
Webtime Corporation	Replace Magic Ultimate		2021.2.1	APPROVED		CRQ439089	2021-05-19
Reuters	Reuters Connect		3.8.2	APPROVED		PAN/03910/2012	2012-06-25
Reuters	Reuters Connect Content Downloader		4.2.40	APPROVED		LS/10729/2019	2019-05-22
RSA	RSA Netwitness Platform		11.6	LATO	CRQ471131	CRQ471131	2022-06-22
RSA	RSA Netwitness Platform		10.6.6.1	APPROVED	CRQ406596	CRQ406596	2021-09-16
Rstudio	Rstudio		1.1.4.63	APPROVED	HS/10749/2019		2019-12-03
Runecast	Runecast Analyzer		3.1.0	APPROVED	HS/11274/2019	LS/11275/2019	2020-05-25
robware	RVTools		3.8.6	APPROVED	NS/08454/2016 RSS/08455/2016	PAN/08456/2016	2017-07-03
NATO	SABERS		1.2	APPROVED	CRQ412647	CRQ412647	2020-10-15
Nuance	SafeCom G3 Smart Printing		9.44.4.0	APPROVED	NS/05004/2013	PAN/05005/2013	2013-07-24
Nuance	SafeCom G4		520_10.239.3	APPROVED	NS/09564/2018		2018-12-20
Nuance	SafeCom G4		520_10.239	APPROVED		HS/11577/2019	2020-09-24
Gemalto	SafeNet Authentication Client		10.5	APPROVED	HS/10502/2019	LS/10503/2019	2019-06-07
SafeNet	SafeNet SHAC		2.X	APPROVED	NS/07066/2015 RSS/07067/2015	PAN/07068/2015	2016-01-12
Broadcom	SANNAV		2.1	APPROVED	CRQ438908	CRQ438908	2021-05-26
SAP	SAP - Crystal Reports 2016		14.2	APPROVED		CRQ418886	2021-01-25

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Audiocodes	Audiocodes - Mediant Session Border Controller	SBC	7.4	APPROVED		CRQ457146	2021-12-15
Scrutinizer	Scrutinizer		18.9	APPROVED	HS/10768/2019	LS/10769/2019	2019-10-31
Trados SDL	SDL LiveContent S1000D viewer		5.0.1	APPROVED		PAN/04966/2013	2013-08-06
Trados SDL	SDL Trados Studio		2014	APPROVED	NS/05986/2014		2014-04-10
Trados SDL	SDL Trados Studio PRO		2011 SP2	APPROVED	NS/04932/2013		2013-04-04
Hewlett-Packard	Secure Data Diode Solution	DDS	1	APPROVED	NS/02439/2011	PAN/02440/2011	2011-05-04
FireMon	Security Intelligence Platform		8.19.1	APPROVED	NS/09303/2017	PAN/09304/2017	2018-06-18
Galorath Incorporated	SEER for Hardware		7.4	LATO		CRQ390038	2020-02-24
Galorath Incorporated	SEER for IT		2019 3.0	LATO		CRQ390039	2020-02-24
Galorath Incorporated	SEER for SEM		2019 8.3	LATO		CRQ390040	2020-02-24
Galorath Incorporated	SEER for Software		2019 2.3	LATO		CRQ390042	2020-02-24
Semantic	Semantic Mediawiki	SMW	1.5.4	APPROVED	NS/02461/2011		2012-03-13
SolarWinds	Server & Application Monitor	(SAM)	2020.2.5	APPROVED	CRQ434086	CRQ434086	2021-08-25
SolarWinds	Server & Configuration Monitor	(SCM)	2020.2.5	APPROVED	CRQ434090	CRQ434090	2021-08-25
Atlassian	Service Management		4.19.1	APPROVED	CRQ451871	CRQ451871	2021-11-03
NCIA	Service Request Tracking System	SRTS	1.0	APPROVED	NS/00024/2008		2004-02-04
NATO	Service to Monitor and Assess Connectivity and Quality	SMACQ	3.0.0	APPROVED	CRQ422819	CRQ422819	2021-02-22
Poseidon	Set Top Box Amino A140	STB	1.1	APPROVED		PAN/05532/2013	2013-11-26
NCIA	SHAPE IPTV		3	APPROVED		PAN/08028/2016	2016-11-30
NATO	Shared Manpower and Resource Tracker	SMART	4.3.5.1	APPROVED	NS/02482/2011 IS/02484/2011		2012-03-16
ShareGate	ShareGate Desktop		14.0.2	LATO	CRQ418630	CRQ418630	2021-06-09
KWizCom	SharePoint Calendar Web Part - Calendar Plus PRO		4.2	APPROVED	NS/02070/2010		2010-11-30
Cognillo	Sharepoint Essential Toolkit		2019	APPROVED		CRQ439090	2021-05-19
Sharp	Sharp Pen Software		2.2.2.5	APPROVED	NS/04733/2013		2013-02-14
NATO	SigInt Coins Reporting Portal		1.1	LATO	COI/00608/2009		2009-03-03
Community	Sigma Tools	SigT	0.19	APPROVED	CRQ437987	CRQ437987	2022-02-16
Microsoft	Silverlight		5.1	LATO	CRQ437468	CRQ437468	2021-07-14
NATION-USA	SIMDIS	SIMDIS	9.5.0 SR5	APPROVED	NS/03204/2011		2011-12-02
Isselnord	Simplicio NXT		3.0	APPROVED		CRQ439434	2021-05-19
Isselnord	Orion IETP Browser		1.2	APPROVED		CRQ469217	2022-05-25
NetApp	Single Mailbox Recovery for MS Exchange	SMBR	5.0	APPROVED	NS/01029/2009 IS/01030/2009		2009-09-04
NATION-ITA	Sistema Automatizzato di Comando e Controllo	SIACCON	2.1.0.0	APPROVED	NS/05363/2013 IS/05154/2013		2013-09-18
NATION-ITA	Sistema Automatizzato di Comando e Controllo Advanced	SIACCOM ADV	2.2	APPROVED	NS/07276/2015 RSS/07277/2015		2015-12-17
NATO	SITCEN Geographical Viewer		5.4.1	APPROVED	NS/06751/2015 RSS/06752/2015		2016-01-12

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Microsoft	Skype for Business Server	SFB	2015	APPROVED	NS/09382/2018 RSS/09383/2018	PAN/09385/2018	2018-11-27
Thales	SLA Intelligence	SLAI	7.0.0	APPROVED	HS/10741/2019		2019-10-01
SMART Technologies ULC	SMART Board Software		10.6	APPROVED	NS/03436/2011	PAN/03435/2011	2012-06-02
SMART Technologies ULC	SMART Meeting Pro		4.3	APPROVED	NS/09191/2017	PAN/09192/2017	2017-12-19
SMART Technologies ULC	SMART Notebook		10.0	APPROVED	NS/01199/2009 IS/01613/2010	PAN/01200/2009	2009-11-12
SMART Technologies ULC	SMART Notebook		14.2	APPROVED	NS/06509/2014	PAN/06508/2014	2015-01-26
Safenet	Smart Card Clients 90meter		1.4.40	APPROVED	CRQ464043	CRQ464043	2022-03-30
Aspera	Smarrtrack		4.5.1	APPROVED	CRQ415102	CRQ415102	2021-01-07
NCIA	SMC CM Toolbox		1.0	APPROVED	NS/06344/2014	PAN/06345/2014	2014-09-01
TechSmith	Snagit 2021		2021	APPROVED		CRQ439285	2021-05-26
BAE	Socet / GXP		3.2	APPROVED	NS/02749/2011	PAN/02826/2011	2011-09-05
BAE	Socet / GXP		4.3	LATO	HS/10396/2020		2020-01-30
NATO	SOE Manager		3.2	APPROVED	NS/02557/2011		2011-03-23
Software AG	Software AG ARIS		10.0.16	APPROVED	CRQ459088	CRQ459088	2022-01-19
Oracle	Solaris OS for Sparc		11	APPROVED	NS/03646/2012	PAN/03647/2012	2013-07-16
SolarWinds	Solarwinds Dameware NT utilities + mini remote + explorer		7.5.6.0	APPROVED	NS/03015/2011 IS/03014/2011	PAN/03243/2011	2012-04-13
SolarWinds	Solarwinds Dameware Remote Support		12.1.0	APPROVED	HS/10435/2019	LS/10436/2019	2012-07-09
SolarWinds	Solarwinds Kiwi Log Viewer		2.0.26	APPROVED	NS/00388/2008	PAN/00389/2008	2009-03-12
SolarWinds	Solarwinds Kiwi Syslog Server		9.7	LATO	CRQ421929	CRQ421929	2021-01-25
SolaWinds	SolarWinds VoIP and Network Quality Manager (VNQM)	SolarWinds VNQM	2020.2.6	APPROVED	CRQ460189	CRQ460189	2022-02-02
SONUS	Sonus VX Series Devices		5.0	APPROVED	NGC/08965/2017	NGC/08965/2017	2017-11-15
SONUS	Sonus VXBuilder and VXWatch		5.0 Build 25	APPROVED	CRQ449168	CRQ449168	2021-09-23
SourceCode	SourceCode K2 Workflow			APPROVED		CRQ457615	2022-01-12
Sparx Systems	Sparx Systems Key Store		2.0	APPROVED	NS/02505/2011	PAN/02506/2011	2011-12-13
SysKit	SPDocKit		7.4.0	APPROVED	NS/09068/2017	LS/10417/2019	2019-02-13
IntelliPoint Solutions LLC	SPEasyForms		2014.01	APPROVED	NS/06864/2015	PAN/06865/2015	2015-10-22
Spectrum	Spectrum XXI		4.2.3i	APPROVED	NS/00336/2008 IS/00554/2009		2009-02-04
Spectrum	Spectrum XXI		4.2.5i	APPROVED	NS/03239/2011 IS/03240/2011		2012-01-30
Spectrum	Spectrum XXI		4.2.9	LATO	HS/10285/2020		2020-01-16
Splunk	Splunk Enterprise		8.1.1	APPROVED	CRQ434942	CRQ434942	2021-03-11
Splunk	Splunk Enterprise		8.1.2	APPROVED	CRQ428140	CRQ428140	2021-09-29
Splunk	Splunk Enterprise		8.2.1	APPROVED	CRQ445386	CRQ445386	2022-01-12
Splunk	Splunk Enterprise Security		6.4.1	APPROVED	CRQ428261	CRQ428261	2021-09-29
Splunk	Splunk Enterprise Phantom		4.10	APPROVED	CRQ438263	CRQ438263	2021-09-29

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Splunk	Splunk Universal Forwarder		8.0.4	APPROVED	CRQ428265	CRQ428265	2021-09-29
Splunk	Splunk User Behaviour Analytics UBA		5.0.3.1	APPROVED	CRQ428264	CRQ428264	2021-09-29
Oracle	SQL Developer		21.2	APPROVED		CRQ469292	2022-05-25
Squared Up	Squared Up Enterprise Application Monitoring		4.0	APPROVED	HS/10434/2019	LS/10433/2019	2019-11-29
NATO	SRAD DB Generator		2.55	APPROVED	MO/00108/2008		2008-08-07
NATO	SRAD DB Generator		2.1	APPROVED	NS/00040/2008		2005-07-04
Isee	Stella Architect		2.1.4	LATO	CRQ451521		2021-10-20
SolarWinds	Storage Resource Monitor	(SRM)	2020.2.5	APPROVED	CRQ434092	CRQ434092	2021-08-25
Sum Total	Sum Total Suite		22.1.3.1	APPROVED		CRQ465607	2022-07-20
Suprema	Suprema Biostar Express		1.31	APPROVED		PAN/02584/2011	2011-04-15
Microvision Development	SureThing CD Labeler		7 Gold	APPROVED		CRQ430742	2021-04-07
Symantec	Symantec Mail Security for Microsoft Exchange		7.9.1 MP1	APPROVED	CRQ448779	CRQ448779	2021-09-23
Symantec	Symantec Mail Security for Microsoft Exchange		7.10	APPROVED	CRQ453496	CRQ453496	2022-05-04
Symantec	Symantec NetBackup		7.6	APPROVED	NIATC/06272/2014	NIATC/06272/2014	2014-11-13
Symantec	Symantec Site Recovery		2013 SP2	APPROVED	NS/06636/2015 RSS/06637/2015	PAN/06638/2015	2015-03-26
Synology	Synology DiskStation Manager	DSM	6.2.1	LATO	NNC/10296/2019		2019-09-16
Synology	Synology DiskStation Manager	DSM	7.1	LATO	CRQ468493	CRQ468493	2022-05-18
SysKit	YSKIT		8.3.0	APPROVED	NS/08829/2017		2017-10-17
Balabit	Syslog NG		3.30.1	APPROVED	CRQ437976	CRQ437976	2021-09-29
UNICOM	System Architect	SA	11.4.5.1	LATO		CRQ450797	2021-10-17
Systematic	Systematic Iris Message Formatting System Lite	MFS	4.2	APPROVED	NS/00038/2008		2009-06-16
Systran	Systran Web Translator Software		6	APPROVED		PAN/00821/2009	2010-01-28
NATION-POL	SZAFRAN - Command, Control and Information System	SZ C2IS	3.3.1	APPROVED	NS/07378/2015		2017-09-11
NATION-USA	Talonview		4.1.1.64	APPROVED	NS/02289/2010 IS/02290/2010		2011-03-24
Tandberg	Tandberg PrecisionHD USB Camera		1	APPROVED	NS/02229/2010		2011-01-17
Tapestry Solutions	Tapestry TIM Client	TIM	3.0.00.001	APPROVED		PAN/02230/2010	2010-10-28
NCIA	Tasker Migration Tool	TTE	1.0	APPROVED	NS/03270/2011		2012-08-02
NATO	Tasker Tracker Discovery Tool	TTE	1.0	APPROVED	NS/03236/2011 IS/03237/2011		2011-12-22
Telindus	Telindus Crocus		FO10M V35	APPROVED	NGC/01844/2010	NGC/01844/2010	2012-09-20
NATION-ESP	TEMD Card Reader		1.0.1.30	APPROVED		PAN/06845/2015	2015-09-18
Tenable	Tenable Appliance		4.6.1	APPROVED	NS/09133/2017 NIATC/08948/2017 RSS/09132/2017	NIATC/08948/2017	2017-11-15
Tenable	Tenable Core for Nessus		July 2019	APPROVED	HS/11061/2019	LS/11062/2019	2020-04-29
Tenable	Tenable.sc		5.20	APPROVED	CRQ459167	CRQ459167	2022-03-11

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Tenable	Tenable.sc		5.21	APPROVED	CRQ467759	CRQ467759	2022-05-03
Palo Alto	Terminal Service Agent		8.1	APPROVED	CRQ429914	CRQ429914	2021-04-06
Palo Alto	Terminal Service Agent		9.0	APPROVED	CRQ429915	CRQ429915	2021-04-06
Skylinesoft	TERRA Explorer Viewer		6.0.1	APPROVED	NS/03333/2011 IS/03971/2012		2012-03-08
Gurock	TestRail		6.2.3	APPROVED	CRQ407877	CRQ407877	2020-05-07
Thales	Thales Element Manager		4.4.4.2	APPROVED		PAN/06909/2015	2015-12-01
Thales	Thales Web Console	TWC	6.0	APPROVED	NS/08954/2017 RSS/08955/2017	PAN/08956/2017	2017-12-13
ThinkTecture	ThinkTecture IdentityServer		2.2	APPROVED	NIATC/05417/2013	NIATC/05417/2013	2014-02-11
ThreatTrack Security	Threat Analyzer		6.1	APPROVED	NIATC/8268/2016	NIATC/8268/2016	2018-08-03
TITUS	TITUS Message Classification For Microsoft Outlook		4.7	APPROVED	CRQ456127	CRQ456127	2021-12-15
TITUS	TITUS Classification Suite		4.4	LATO	COI/07642/2016		2017-07-06
NATO	Tools for Operations Planning Functional Area Services	TOPFAS	6.4.6	APPROVED	CRQ458700		2022-01-20
NATO	Tools for Operations Planning Functional Area Services	TOPFAS	6.4.7	APPROVED	CRQ464714		2022-03-20
NATO	TOPFAS OCC Evaluation and Feedback Tool	OCC E&F	6.1.2	APPROVED	HS/11090/2019	LS/11091/2019	2019-11-18
NATO	TOPFAS OCC Evaluation and Feedback Tool	OCC E&F	6.2.0	APPROVED	CRQ419866	CRQ419866	2021-02-25
BitBucket	Tortoise HG		5.6	APPROVED		CRQ450253	2021-10-06
TortoiseSVN	Tortoise SVN TortoiseSVN		1.14	APPROVED		CRQ455632	2022-01-25
Ghisler	Total Commander		9.12	APPROVED		CRQ449241	2021-10-20
NCIA	Training Objective Management Module	TOMM	1.1	APPROVED	NS/06884/2015	PAN/06885/2015	2016-04-27
NATION-NLD	Tranman		10.1c	APPROVED		PAN/00784/2009	2009-08-14
NATION-KFOR	Transcoy		2.0	APPROVED	KF/05048/2013		2013-08-19
E-motional	Transparent Screen Lock PRO		5.47	APPROVED	NS/02635/2011		2011-04-06
E-motional	Transparent Screen Lock PRO		5.5	APPROVED	NS/04403/2012		2013-02-14
NATION-NLD	TransPay		2.0	APPROVED		PAN/00333/2008	2009-08-19
NATION-USA	Transview32	TV32	7.7.4 B	APPROVED		PAN/01107/2009	2009-11-12
Jam Software	TreeSize Professional		6.1.1	APPROVED	NS/06395/2014 RSS/08450/2016	PAN/06396/2014	2015-05-19
Trellix	Trellix Agent		5.7.7	APPROVED	CRQ474176	CRQ474176	2022-08-03
Trend Micro	Trend Micro ScanMail for Exchange	SMEX	12 SP1	LATO	NS/08402/2016 NIATC/08406/2016 RSS/08403/2016 NGC/08405/2016	PAN/08404/2016	2019-05-13
Trend Micro	Trend Micro ScanMail for Exchange	SMEX	12 SP1 P1	LATO	NS/08402/2016 NIATC/08406/2016 RSS/08403/2016 NGC/08405/2016	PAN/08404/2016	2019-05-13
Price	TruePlanning		16.2.5	APPROVED		CRQ472619	2022-08-03
UnifiedFX	UnifiedFX Phoneview		7.1.1	APPROVED	CRQ412980	CRQ412980	2020-11-25
NT-Ware	Uniflow 2020		2020 LTS SR2	APPROVED	CRQ424146	CRQ424146	2021-06-18
NT-Ware	Uniflow 2022		2022 LTS SR1	APPROVED	CRQ470036	CRQ470036	2022-06-13

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Arkham Technology	USB/DS101 Adapter Bridge		2.4	APPROVED	NS/02317/2010		2011-03-07
Arkham Technology	USB/DS101 Adapter Bridge		2.9	APPROVED	NS/08649/2017		2017-05-02
Crowley	Uscan+ HD		4.0	LATO	CRQ469622		2022-06-22
SolarWinds	User Device Tracker	(UDT)	2020.2.5	APPROVED	CRQ434094	CRQ434094	2021-08-25
Veeam	Veeam Backup and Replication	B&R	10.0	APPROVED	CRQ402154	CRQ402154	2021-05-12
Veeam	Veeam Backup and Replication	B&R	11.0	APPROVED	CRQ452238	CRQ452238	2022-04-06
Veeam	Veeam Management Pack for SCOM		8.0.0.2451	APPROVED	HS/10431/2019	LS/10432/2019	2019-10-15
Veeam	Veeam Management Pack for VMware		8.0	APPROVED	NS/05286/2013	PAN/05287/2013	2013-11-26
Veriato	Veriato Investigator		7.6	APPROVED		PAN/08219/2016 RSS/08220/2016	2016-11-03
Veritas	Veritas Backup Exec		20.6	APPROVED	CRQ386967	CRQ386967	2020-10-02
Veritas	Veritas Backup Exec		21.2	APPROVED	CRQ443625	CRQ443625	2021-07-20
Veritas	Veritas NetBackup		8.2	APPROVED	CRQ415153	CRQ415153	2021-02-23
Veritas	Veritas NetBackup		9.1.0.1	APPROVED	CRQ460342	CRQ460342	2022-03-23
Virto Software	Virto-one		1	LATO	CRQ455407	CRQ455407	2021-11-24
Elaborate Bytes	Virtual Clonedrive		5.4.5	APPROVED	NS/02639/2011 IS/02640/2011	PAN/02641/2011	2011-12-20
Virtual Dimensions	Virtual Dimensions		0.94	APPROVED	NS/01108/2009 IS/01109/2009		2010-01-15
SolarWinds	Virtualization Manager	(VMAN)	2020.2.5	APPROVED	CRQ434099	CRQ434099	2021-08-25
SIRTI	Very Low Frequency Broadcast Control Authority	VLF BCA	2.0	APPROVED	CRQ465647		2022-05-03
Poly	VideoOS		3.12	APPROVED	CRQ474100	CRQ474100	2022-08-03
Visiplex	Visiplex Paging System		1	APPROVED		PAN/02664/2011	2011-12-13
VideoLAN	VLC Media Player	VLC	3.0.12	APPROVED	CRQ429731	CRQ429731	2021-03-12
VMware	Vmware App Volumes		2.16	APPROVED	HS/11011/2019	LS/11012/2019	2019-11-14
VMware	VMware ESXi	ESXI	6.0 Patch 20192001	APPROVED	HS/11602/2019	LS/11603/2019	2019-12-10
VMware	VMware ESXi	ESXI	6.5 Patch 20192001	APPROVED	HS/11606/2019	LS/11607/2019	2019-12-10
VMware	VMware ESXi	ESXI	6.5 Patch 202011002	APPROVED	CRQ423767	CRQ423767	2020-11-26
VMware	VMware ESXi	ESXI	6.7 Patch 201912001	APPROVED	HS/11610/2019	LS/11611/2019	2019-12-10
VMware	VMware ESXi	ESXI	6.7 Patch 202011002	APPROVED	CRQ423768	CRQ423768	2020-11-26
VMware	VMware ESXi	ESXI	7.0 Update 2	APPROVED	CRQ437167	CRQ437167	2021-04-30
VMware	VMware ESXi	ESXI	7.0.3d	APPROVED	CRQ465853	CRQ465853	2022-04-06
VMware	VMware Horizon		2012	APPROVED	CRQ424205	CRQ424205	2021-07-07
VMware	VMware Horizon		2111	APPROVED	CRQ457687	CRQ457687	2022-01-12
VMware	VMware Horizon View		7.7	APPROVED	HS/10330/2019	LS/10331/2019	2019-03-21
VMware	VMware Horizon View		7.8	APPROVED	HS/10642/2019	LS/10643/2019	2019-05-16

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VMware	VMware Horizon View		7.12	APPROVED	CRQ409221	CRQ409221	2020-06-08
VMware	VMware Horizon View		7.13	APPROVED	CRQ428719	CRQ428719	2021-01-14
Thales	VMware PowerCLI		6.5	APPROVED	NS/08451/2016 RSS/08452/2016	PAN/08453/2016	2018-01-10
VMware	VMware Site Recovery Manager	SRM	8.2	APPROVED	HS/11023/2019	LS/11024/2019	2019-09-18
VMware	Vmware User Environment Manager		9.7	APPROVED	HS/11015/2019	LS/11016/2019	2019-11-14
VMware	VMware vCenter		7.0U2	APPROVED	CRQ437743	CRQ437743	2021-04-28
VMware	VMware vCenter		7.0 U2d	APPROVED	CRQ451707	CRQ451707	2021-10-06
VMware	VMware vCenter		7.0.3d	APPROVED	CRQ465852	CRQ465852	2022-04-06
VMware	VMware vCenter		6.7 U3o	APPROVED	CRQ451711	CRQ451711	2021-10-06
VMware	VMware vCenter		6.5 U3q	APPROVED	CRQ451712	CRQ451712	2021-10-06
VMware	VMware View		5.1	APPROVED	NS/03982/2012 IS/03983/2012	PAN/03985/2012	2012-11-05
VMware	VMware View		5.1.2	APPROVED	NS/04668/2012 IS/04669/2012	PAN/04671/2012	2013-03-15
	Vmware Vrealize Operations Manager		7.5	APPROVED	HS/10822/2019	LS/10823/2019	2019-11-14
VMware	Vmware Vrealize Operations Manager		8.1	APPROVED	CRQ413354	CRQ413354	2020-10-02
VMware	Vmware Vsphere Replication		8.2	APPROVED	HS/10830/2019	LS/10831/2019	2019-11-14
NATION-NLD	Voorcheck		2.5	APPROVED		PAN/00334/2008	2009-08-19
Finmeccanica	VPN Toolset		1.0	APPROVED	NS/04482/2012 NIATC/05080/2013 NGC/04483/2012	PAN/04481/2012	2014-09-10
ISS	WEB enabled Temporal Analysis System	WEBTAS	4.3.1	APPROVED	NS/04657/2012 IS/04658/2012		2013-02-07
NATO	Web Information Services Environment for Windows	WISE	1.3.2	APPROVED	NS/01183/2009 IS/01394/2010		2011-03-15
NCIA	Web Services Interface Standard for ICC	WISI	1.4.1	APPROVED	NS/08005/2016		2016-08-08
Ipswitch	Whatsup Gold		19.2	APPROVED	HS/11635/2019	LS/11636/2019	2021-01-13
other	WinMerge	WINMERGE	2.14.0	APPROVED	NS/05802/2014	PAN/05803/2014	2014-04-10
WinPcap	WinPcap Network Packet Capture program	WINPCAP	4.1.3	APPROVED	NS/04516/2012 NIATC/05578/2013	PAN/04517/2012	2013-11-06
WinSCP	WinSCP	WINSCP	4.3.7	APPROVED	NS/03796/2012	PAN/03795/2012	2012-06-01
WinSCP	WinSCP	WINSCP	5.9.6	APPROVED	NS/08457/2016 RSS/08458/2016	PAN/08459/2016	2017-10-05
COREL	WinZip	WINZIP	12	LATO	CRQ454499		2021-11-17
COREL	WinZip	WINZIP	25	APPROVED	CRQ417814	CRQ417814	2020-11-13
NATION-USA	Wireless Information System For Emergency Responders	WISER	4.3	APPROVED		PAN/01431/2010	2010-02-10
Wireshark	Wireshark - Wireshark		3.0.1	APPROVED	HS/10752/2019	LS/10753/2019	2019-07-09
Wireshark	Wireshark - Wireshark		3.6.0	APPROVED	CRQ457545	CRQ457545	2022-01-12
Wireshark	Wireshark - Wireshark		3.6.3	LATO	CRQ466962	CRQ466962	2022-04-26
Starznet	WSS / MOSS Log File Reader		1.1.0.0	APPROVED	NS/01705/2010 IS/01706/2010		2010-07-30
Wyse	Wyse P Class Thin Client Model PX0		P20	APPROVED	NS/01693/2010		2011-07-18

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Provider	Name	Abbr	Version	Approval	High-Side	Low-Side	Approval Date
XCAPI	XCAPI Voice over IP		3.3.197.0	APPROVED	NS/02693/2011 IS/02694/2011	NGC/02696/2011	2011-06-15
Xmedius	Xmedius Fax		8.0.0.404	APPROVED		NGC/09413/2018 PAN/09414/2018	2019-02-07
NATO	XML Label Guard		2.0	APPROVED	NS/02170/2010 IS/02172/2010		2010-12-03
Thales	XOmail		21.1.2	APPROVED	CRQ408701		2020-08-20
Thales	XOmail Server	Xomail	21.1.2 Patch 2112	LATO	CRQ461192		2022-03-16
X-Ways Software Technology	X-Ways Forensics		20.2	LATO	CRQ456122	CRQ456122	2021-12-01
yWorks	yEd Graph editor		3.20	APPROVED	HS/11621/2019		2020-09-03
yWorks	yEd Graph editor		3.21.1	APPROVED	CRQ429242	CRQ429242	2021-05-21
Yubico	Yubikey		2.1	APPROVED	NS/02374/2011		2011-03-03
Zabbix	Zabbix Monitoring Solution		4.0.0	APPROVED	NIATC/10082/2018	NIATC/10082/2018	2019-04-11
Zebra	Zebra Designer		3.2.1	LATO		CRQ459533	2022-03-16
Primx	Zed!		6.1	APPROVED		CRQ419792	2021-09-23
Smartbear	Zephyr Scale - Test Management for Jira		8.0.4	APPROVED	CRQ439407	CRQ439407	2021-05-19
Zoho	Zoho ADAudit Plus		7.0	APPROVED	CRQ467845	CRQ467845	2022-07-06
Zoho	Zoho ADManager Plus		7.1.0	APPROVED	CRQ467838	CRQ467838	2022-07-06
Zoho	Zoho Password Manager Pro		6.4.0	APPROVED	NS/03063/2011	PAN/03064/2011	2012-05-09
Zoho	Zoho Password Manager Pro		6.7	APPROVED	NS/04700/2013	PAN/04701/2013	2013-07-18
Zscaler	Zscaler Application ZAPP		3.1.0.103	APPROVED		CRQ428162	2021-09-23
Insight Systems	ZyrOSS		2.3.11	APPROVED	NGC/02656/2011	NGC/02656/2011	2011-09-05