



Acquisition Directorate

Tiziana.Pezzi@ncia.nato.int
Telephone: +32 (0) 2 707 8472

NCIA/ACQ/2021/06529
05 February 2021

To: All Nominated Prospective Bidders

Subject: Amendment No. 3 to Request for Quotation RFQ-CO-115259-DCEP
REFRESH and SUSTAIN DCIS EQUIPMENT POOL
Project Serial: 2017/0CM03143

Reference: A. AC/4(PP)D/28023-ADD1
B. NCIA/ACQ/2020/12883 RFQ-CO-115259-DCEP dated 18 December 2020
C. NCIA/ACQ/2021/06456 Amendment 1 to RFQ-CO-115259-DCEP dated
12 January 2021
D. NCIA/ACQ/2021/06502 Amendment 2 to RFQ-CO-115259-DCEP dated
25 January 2021

Dear Sir/Madam,

1. At Reference B your firm was invited, in conformance with the terms of your active Basic Ordering Agreement (BOA) with the NCI Agency to participate in a BOA competition for the for the provision of Deployable Communications and Information Systems Equipment Pool (DCEP) end-user equipment at Brunssum, Netherlands.
2. The purpose of this Amendment 3 is to:
 - a) Publish Purchaser's answers to the Batch 3 Clarification Requests (CRs) received to date for the subject RFQ. The Purchaser is providing their response to the CRs at Annex A attached to this letter.
 - b) Extend the bid closing date;
 - c) Issue revised RFQ documents (Book II) as follows:
 - RFQ-CO-115259-DCEP-AMD3-Book II-Part IV-SOW Annex A SRS (v1.5)
 - RFQ-CO-115259-DCEP AMD3 Book II - Part IV SOW_V1.2
3. To allow sufficient time to address the changes made as part of this amendment, the closing time for the submission of quotations in response to this RFQ is hereby extended to **14:00 HOURS (BRUSSELS TIME) ON MONDAY, 15 FEBRUARY 2021.**
4. Some answers to Bidders questions have necessitated changes to the RFQ bidding documents. Revised bidding documents as indicated in Paragraph 2 above are attached to this RFQ and replace the original versions in their entirety. Potential Bidders are strongly advised to carefully review revised bidding documents.



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5. This Amendment makes the following revisions:

RFQ-CO-115259-DCEP-AMD3-Book II-Part IV-SOW Annex A SRS (v1.5)

- Removal of the following requirement: Book II Part IV SOW Annex A SRS, DCEP20-108 Display 10-point multi-touch screen for Laptops with HDDE
- For all further changes please see Annex A

RFQ-CO-115259-DCEP AMD3 Book II - Part IV SOW V1.2

- 7.1.10, line 2, the first "Contractor" is replaced by "Purchaser"

6. With the exception of the revisions mentioned above, all other RFQ documents remain unchanged or from their original version as issued on 18 December 2020 unless revised under Amendment 1 issued on the 12th January 2021 or Amendment 2 issued in the 25th January 2021.

7. Prospective Bidders are advised that the NATO NCI Agency reserves the right to cancel this RFQ 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.

8. The reference for the RFQ is: **RFQ-CO-115259-DCEP** and all correspondence concerning this RFQ should reference this number.

9. The Purchaser point of contact for all information concerning this Request for Quotation is:

NATO Communications and Information Agency
Acquisition Directorate
NATO Headquarters, Boulevard Leopold III
1110 Brussels, Belgium

Attn: Ole Hubner, Contracting Officer
Cc: Tiziana Pezzi, Principal Contracting Officer

Email: RFQCO115259DCEP@ncia.nato.int

FOR THE DIRECTOR OF ACQUISITION:

Pezzi
Tiziana
Digitally signed
by Pezzi Tiziana
Date: 2021.02.05
15:36:35 +01'00'
Tiziana Pezzi
Principal Contracting Officer

Enclosures:

- 1) Annex A - Purchaser's answers to the Clarification Requests
- 2) Revised Bidding Documents:
 - RFQ-CO-115259-DCEP AMD3 Book II - Part IV SOW Annex A SRS (v1.5)
 - RFQ-CO-115259-DCEP AMD3 Book II - Part IV SOW_V1.2

**DISTRIBUTION LIST FOR Amendment No.2 to REQUEST FOR QUOTATION
RFQ-CO-115259-DCEP**

Offerors (sent separately in electronic version)

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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

Date: 05 February 2021

ADMINISTRATIVE/ CONTRACTUAL					
Serial Nr	RFQ Book	RFQ Section Ref.	QUESTION	ANSWER	RFQ amended
A.9	Book I Bidding Instructions	Section 3.3.6 and 3.3.7	<i>Can you provide you EORI number please?</i>	As International Organization NATO is exempted from the regulation and does not hold an EORI Number.	No amendment to RFQ required

TECHNICAL					
Serial Nr	RFQ Book	RFQ Section Ref.	QUESTION	ANSWER	RFQ amended
T.66	Book II, Part IV SOW Annex A SRS	Bidder Questions, Technical, Serial Nr T.17, T.18	<i>Are we right in assuming that when it says “Tempest Power Filers for Tempesteing to Level C” that is meant that there should be a “TEMPEST Power Line Filter” for each SDIP 27 Level C and B device? If not, please clarify what one can understand of “Tempest Power Filers”.</i>	See replies to T17 and T18	No amendment to RFQ required

<p>T.67</p>	<p>Book II, Part IV SOW Annex A SRS</p>	<p>Bidder Questions, Technical numbers T.17 and T.18</p>	<p><i>We are unsure what device a “Tempest Power Filer” is. Do you mean a ‘Tempest Power Line Filter’ for Level C and B devices? Please clarify.</i></p>	<p>Yes, Power Line Filter meeting TEMPEST Level C (xU security domain appliances) or B (xS security domain appliances)</p>	<p>No amendment to RFQ required</p>
<p>T.68</p>	<p>Book I, Bidding Sheets</p>		<p><i>Please clarify if the various ‘warranty’-CLINS with quantity 1 mean that warranty is needed for only one device of the respective set or if it relates to the whole set of the respective CLIN, for example CLIN 2.13/CLIN 2.13.3</i></p>	<p>It reflects to the whole set of the respective CLIN.</p>	<p>No amendment to RFQ required</p>
<p>T.69</p>	<p>Book II, Part IV SOW Annex A SRS</p>	<p>Page 16 of 17, 2.5.3 End-User KVM Switch</p>	<p><i>Are we right in assuming that the KVM Switches shall be certified by an accredited tempest company? Are we also right in assuming that the KVM Switches shall be accompanied by a certificate and a device-specific short-measurement shall be performed for each KVM Switch according to SDIP 27 Level C? Please confirm.</i></p>	<p>See SOW Annex A SRS (v1.5) DCEP20-80 => NIAPC approved certification entities only. See SOW Annex A (v1.5) DCEP20-87 => each device with individual certificate.</p>	<p>No amendment to RFQ required</p>
<p>T.70</p>	<p>Book II, Part IV SOW Annex A SRS</p>	<p>2.3 End-Users Laptops</p>	<p><i>For the required feature of power adapter for end-user laptop: “1x Power adapter and cord (auto sensing 110/230V) with 1x USB – C Power Adapter Plus – 2*130W (Power-In Port: AC in, Power-Out Port: 1 x DC out USB-C)” there is the possibility to offer the solution that contain standard adapter Euro 130W USB-C AC Adapter with 1m power cord (Kit) enhanced by Dell Dock WD19, 180W (PN 210-ARJF) with features as follows: Input 130 W AC with output 90 W</i></p>	<p>During the bidding phase, we can not answer such questions. Please see the RFQ and respond accordingly.</p>	<p>No amendment to RFQ required</p>

			<p><i>Security slot: 1x Kensington (cable lock not included, sold separately) + 1x Noble Wedge lock (cable lock not included sold separately)</i> <i>Required OS: Microsoft Windows 10, Ubuntu 18.04, Redhat Enterprise Linux</i></p> <p><i>Interfaces:</i> 1x USB-C 3.1 2. gen 1x Port USB-A 3.1 1. Gen w. PowerShare 1x Combined sound / headset connector 1x Audion output 2x DisplayPort 1.4 1x Port HDMI 2.0b 1x Multifunction port USB-C DisplayPort 2x Port USB-A 3.1 1. Gen. 1x Gigabit ethernet RJ45 1x Power input</p> <p><i>Does this meet your requirements ?</i></p>		
T.71	Book II, Part IV SOW Annex A SRS	Section 2.3 End-Users Laptops	<p><i>In T.1 there is stated:</i></p> <p><i>“1x Power adapter and cord (auto sensing 110/230V) with 1x USB – C Power Adapter Plus – 2*130W (Power-In Port: AC in, Power-Out Port: 1 x DC out USB-C)”</i></p> <p><i>How many power adapters are requested for each laptop?</i></p>	Please see the response to T.23.	No amendment to RFQ required
T.72	Book II, Part IV SOW Annex A SRS	Section 2.6.1 Multifunction device	<p><i>One of requested features is “Access Control at Printer”.</i></p> <p><i>In SRS (DCEP20-136) there is stated:</i></p>	Please see the responses to T.15, T.30, T.32 and T.44.	No amendment to RFQ required

			<p><i>“MFD shall include a badge-reader to control Printing, Scanning and Copy activities”</i></p> <p><i>What type or standard of card or badge is required to be provided on printers reader?</i></p>		
T.73	Book II, Part IV SOW Annex A SRS	Section 2.7 VTC	<p><i>Requested projector is EPSON EB-W39. Sellers are reporting last pieces in their stock and there is no possibility to order new stock of this model. Could be replaced by its successor with the same or better specification? (EB-W49)</i></p>	Yes, its successor or better can be proposed.	No amendment to RFQ required
T.74	Book II, Part IV SOW Annex A SRS	Pages: 9 and 12	<p><i>Minimum requirements for the operating system on End-Users Desktop PC are following: “No operating system delivery is required, but the desktop computers shall be fully Microsoft Windows 10 compatible” and on End-users laptop: “Support Microsoft Windows 10”. Taking into consideration Microsoft licensing rights, and the obligatory that a Microsoft Windows OEM version must be preinstalled on the device to get legal rights for an update/installation according Enterprise agreement, can you please confirm which devices should be delivered with and which without Microsoft OEM operating system?</i></p>	All Desktops and Laptops shall be delivered without OS. Quoted SRS statements are there to ensure that delivered products shall be compatible with the OS to be installed by the Purchaser.	No amendment to RFQ required
T.75	AMD2 Book II, Part IV SOW Annex A SRS	DCEP20- 110,118,123	<p><i>On clarification T.43 you have confirmed that Kensington lock request will be removed for all TEMPEST equipment, but it is still listed as mandatory in technical part for: End-Users Laptops, End-Users Desktop and monitor. In regard to the Kensington lock, can you confirm that the lock should not be delivered with TEMPEST devices and confirm those devices?</i></p>	No Kensington lock shall be delivered at all. Requirement removed from SRS v1.5	Please see updated SRS V1.5

<p>T.76</p>	<p>AMD2 Book II, Part IV SOW Annex A SRS</p>	<p>115259-DCEP AMD2</p>	<p><i>Since the Epson EB-W39 projector that you have clearly specified in the documentation is an end-of-life product, can you confirm that its successor product Epson EB- W49 fits your requirements and that it is acceptable?</i></p>	<p>Please the response to T.75.</p>	<p>No amendment to RFQ required</p>
<p>T.77</p>	<p>Book I, Bidding Sheets</p>	<p>CLIN Summary</p>	<p><i>Major IT equipment manufacturers are faced with a raw material shortage caused by COVID.19 world pandemic. The shortage is especially evident in the delivery of laptop devices. Considering this into account, would you be so kind as to extend required completion date for the delivery of batch 1?</i></p>	<p>The scheduled completion date remains.</p>	<p>No amendment to RFQ required</p>
<p>T.78</p>	<p>AMD2 Book II, Part IV SOW Annex A SRS</p>	<p>DCEP20-148</p>	<p><i>Are we right in assuming that the “USB powered external Network Adapter” should be Media Converters? And do we rightly assume that the specified wavelength should be 1310 nm and not 1300 nm?</i></p>	<p>The USB external Network Adapter shall be compatible with 1300nm SFP’s and will use 50.125µm MMF.</p>	<p>Please see updated SRS V1.5</p>
<p>T.79</p>	<p>Book II, Part IV SOW Annex A SRS</p>	<p>Page 16 of 17, 2.5.3 End-User KVM Switch</p>	<p><i>We assume that for the KVM Switch “SDIP 27 Level C requirements” means that the KVM Switch shall be certified by a TEMPEST company that is accredited by a national security authority. The KVM Switch shall be accompanied by a certificate and a device-specific short-measurement shall be performed for each KVM Switch according to SDIP 27 Level C. Please clarify.</i></p>	<p>Please see the response to T.70.</p>	<p>No amendment to RFQ required</p>
<p>T.80</p>	<p>Book II, Part IV SOW Annex A SRS</p>	<p>DCEP20-134</p>	<p><i>Is an optical 600 x 600 dpi scan resolution acceptable given all 1200 x 1200dpi A3 MFDs won’t meet the other specification requirement particularly card control etc.?</i></p>	<p>Yes, this is acceptable</p>	<p>Please see updated SRS V1.5</p>

T.81	Book II, Part IV SOW Annex A SRS	DCEP20-134, 136	<i>What is the back-end integration solution utilities for secure print?</i>	Currently, it is SafeCom G2	No amendment to RFQ required
T.82	Book II, Part IV SOW Annex A SRS	DCEP20-134, 136	<i>Can you please confirm whether the printer needs to use either smart card or RFID card technology? The standard for RFID is specified DCEP20-136. What Smart Card Standard Technology do you intend to use?</i>	RFID Only	No amendment to RFQ required
T.83	Book II, Part IV SOW Annex A SRS	DCEP20-134, 136	<i>Can you please confirm whether the printer needs to use either smart card or RFID card technology? The standard for RFID is specified DCEP20-136. What Smart Card Standard Technology do you intend to use?</i>	See the response to T.83	No amendment to RFQ required
T.84	Book II, Part IV SOW Annex A SRS	DCEP20-134, 136	<i>For secure print feature will secure pin based on print driver configuration or is it a follow me print technology that is deployed?</i>	Secure printing is supported by the badge based authentication on the MFD. MFD need to be driver based PIN code and follow me functionalities compatible.	No amendment to RFQ required
T.85	Book II Part IV SOW V1.1	AMD & T35 & T37	<i>Please confirm FAT Test Report acceptance time. Current it is stated that: "Within 1 (one) month of each delivery batch acceptance is expected to be achieved.", As the FAT needs to be approved prior to shipment and the first batch should be delivered at week 12, we only would have 1 week for NATO acceptance. Is this sufficient time for NATO to approve FAT report and resolve any issues.</i>	Please see the response to T.35 and T.37. T.35 is related to the acceptance after the delivery to the Purchaser.	No amendment to RFQ required



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RFQ-CO-115259-DCEP

AMD 3

Provision of Deployable CIS Equipment Pool

BOOK II

PART IV – STATEMENT OF WORK (SOW)

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1 INTRODUCTION

- 1.1 The purpose of this Contract is to procure Deployable Communications and Information Systems (DCIS) Equipment Pool (DCEP) end-user equipment, composed of workstations, laptops, monitors, keyboards/mice, KVMs and deployable Video Teleconference (VTC) for use in the NATO Deployable CIS environment.
- 1.2 This Statement of Work (SOW) describes the requirements for the DCEP equipment, and the related services to be provided to the Purchaser under this contract.

2 SCOPE

- 2.1 The DCEP equipment to be provided under this contract comprises of:
 - (a) 518 (fivehunderedeighteen) Laptops Eclipt Hard Disk Drive Encryption (HDDE) installed with TEMPEST Level C;
 - (b) 1799 (onethousandsevenhundredandnintynine) laptops Eclipt HDEE installed;
 - (c) 1087 (onethousandeightyseven) laptops;
 - (d) 259 (two hundred fifty-nine) Desktop TEMPEST Level B;
 - (e) 100 (one hundred) Multifunction devices (printer/scanner/copier) (MFD);
 - (f) 1,000 (one thousand) Monitors;
 - (g) 3,692 (three thousand six hundred ninety-two) Keyboard and Mice;
 - (h) 28 (twenty eight) Video Teleconference (VTC) Suites;
 - (i) 1,000 (one thousand) KVM switch; and,
 - (j) 3,404 (three thousand four hundred and four) Laptop carrying bags.
- 2.2 The related services include the integration of Purchaser provided Hard Disk Drive Encryption (HDDE) devices into the laptops and the TEMPEST certification of required DCEP equipment.
- 2.3 The delivery of software other than device drivers and firmware is not in the scope of this project, neither is the installation of an Operating System other than needed by the Contractor for testing purposes.

3 CONTRACTOR TASKS

- 3.1 The Contractor shall deliver all hardware, software and services as specified in Annex A to this SOW and in the Schedule of Supplies and Services (SSS) to the specified destination within the time specified therein.
 - 3.1.1 The Contractor shall install 2,317 (two thousand three hundred and seventeen) Purchaser provided HDDE in Laptops ~~TEMPEST Level C~~ stated in 2.1 (a) and

- (b). Remaining Laptops quantities shall be delivered with hard drives as specified in Annex A of this SoW.
- 3.2 The Contractor shall be responsible to ensure full compatibility and interoperability between the Purchaser provided HDDE, in both unkeyed and keyed state, and the laptops. This includes maintaining full functionality, performance, environmental and other specifications of both devices. The Contractor shall in case of any integration issues directly (i.e. without Purchaser involvement) liaise with the laptop and HDDE manufacturers.
- 3.3 The Contractor shall provide a record indicating the serial number of each Purchaser provided HDDE and the serial number of the laptop in which it is installed.
- 3.4 The Contractor shall execute all test activities under this Contract as detailed in Chapter 7 (TESTING).
- 3.5 The Contractor shall for all DCEP equipment under this Contract deliver all and up to date drivers for use with the Microsoft Windows 10 Operating System.
- 3.6 The contractor shall deliver a Project Management Plan (PMP) within 2 weeks of Contract Effective Date describing how the Contractor will implement the totality of the project, including details of the project control that will be applied.
- 3.6.1 The Purchaser shall have a period of 1 week to provide comments and the Contractor shall have a further 1 week period to incorporate these comments. After approval by the Purchaser, the final version of the PMP shall be the official document against which the Contractor is expected to conduct the performance of the Contract. The approved PMP shall however not supersede the Contract, and the Schedule of Supplies and Services (SSS) in particular.
- 3.7 The Purchaser's Project Manager will be the primary interface between the Contractor and the Purchaser for technical matters, the Purchaser's Contracting Officer remains the overall Purchaser representative.
- 3.8 The Contractor shall perform all tasks specified in this Contract.

4 PROJECT SCHEDULE

- 4.1 The Contractor shall ensure that all tasks and deliverables within the scope of the base contract shall be completed within 24 weeks from EDC.
- 4.2 The Contractor shall deliver the equipment in 13 batches;

Table 4-1 Delivery Schedule

Batch number	Laptops TEMPEST Level C with HDDE	Laptops with HDDE	Laptops	Desktops TEMPEST Level B	VTC Suite	MFD	KVM Switch	Monitor	Keyboard and Mice	Transport Case	Delivery date
1	518	-		-	-	-	-	-	-	-	EDC+12 weeks
2		250		259	-	-	-	-	-	-	EDC+13 weeks
3		515		-	-	-	-	-	-	-	EDC+14 weeks
4		515		-	-	-	-	-	-	-	EDC+15 weeks
5		519		-	-	-	-	-	-	-	EDC+16 weeks
6	-		547	-	-	-	-	-	-	-	EDC+17 weeks
7	-		540	-	-	-	-	-	-	-	EDC+18 weeks
8	-	-		-	28	-	-	-	-	-	EDC+19 weeks
9	-	-		-	-	40	-	-	-	-	EDC+20 weeks

10	-	-		-	-	40	-	-	-	-	EDC+21 weeks
11	-	-		-	-	20	1,000	-	-	-	EDC+22 weeks
12	-	-		-	-	-	-	1,000	-	-	EDC+23 weeks
13	-	-		-	-	-	-	-	3,692	3,404	EDC+24 weeks

- 4.3 For planning purposes the Contractor shall provide an overall planning for the delivery of all DCEP equipment details of each batch as described in the ILS requirements in Section 6 of this Statement of Work.
- 4.4 The Contractor shall provide a weekly update detailing the current status of delivery via e-mail to the Purchaser's Project Manager.

5 TECHNICAL REQUIREMENTS

- 5.1 The technical requirements of the hardware, software and services to be provided under this Contract are described in Annex A SRS to this SOW.
- 5.2 All laptops in 2.1(b) of this SoW shall meet the same technical specifications as stated in Annex A SRS to this SoW other than TEMPEST requirement.
- 5.3 All laptops in 2.1(c) of this SoW shall meet the same technical specifications as stated in Annex A SRS to this SoW other than TEMPEST requirement and HDDE installation.

6 INTEGRATED LOGISTIC SUPPORT (ILS)

6.1 INTRODUCTION

- 6.1.1 This Integrated Logistics Support (ILS) section outlines the general ILS requirements of this Contract.

6.2 SHIPPING AND TRANSPORTATION

- 6.2.1 All goods delivered under this Contract shall be delivered to the following address unless otherwise specified by the Purchaser before the shipment arrangements.

NATO Communications and Information Agency CIS Sustainment
Support Centre

JFC Headquarters Building 204, Rimbürgerweg 30, 6445 PA
Brunssum, Netherlands

- 6.2.1 The items being returned after warranty repair shall be shipped to CSSC Brunssum at no additional cost.
- 6.2.2 All materials covered under the Contract, including items being returned after warranty repair, shall be shipped Delivered Duty Paid (DDP) to the addresses specified in accordance with current INCOTERMS published by the International Chamber of Commerce.
- 6.2.3 The Purchaser shall not be liable for any storage, damage or any other charges involved in such transportation of supplies prior to the actual acceptance of such supplies at destination.
- 6.2.4 The Purchaser will not accept responsibility and/or ownership of the equipment before acceptance is complete.
- 6.2.5 The Purchaser's Point of Contact (POC) for all shipment instruction and shipment requests is:

Mr. Carlos Rodrigues (NCI Agency)/ILS Office
Tel: + 32 6 544 7523
Fax: + 32 6 544 7609
E-mail: Carlos.Rodrigues@ncia.nato.int

6.2.6 Each shipment shall be composed of one batch of one or more pallets pending Purchaser’s confirmation. A pallet shall be defined as the standard Euro-pallet (EUR/EPAL; 1200mm x 800mm), packed to a height as close as practicable to a total maximum height of 1800mm, and not exceeding a total weight of 1000 Kg.

6.3 PRESERVATION AND PACKAGING

6.3.1 The Contractor shall, for the purpose of transportation, package, crate or otherwise prepare the various deliverables in accordance with the best commercial practices for the types of deliverables involved, giving due consideration to shipping and other hazards associated with the transportation of consignments overseas.

6.3.2 All items shall be delivered in their original packaging including the replacement parts that are provided under warranty.

6.3.3 The Contractor shall establish the packing lists in such a way to permit easy identification. These packing lists shall accompany the shipment. Each individual container/box from a consignment shall have a packing list in a weatherproof envelope attached to the outside of each container/box detailing its contents. A second copy of the list is required inside each container/box.

6.3.4 The packing list shall include the following information as a minimum:

Serial	Requirement
1	The Shipping Address
2	Package Number
3	Contract Number
4	CLIN Number as per Schedule of Supply and Services
5	Item Description
6	Part Number
7	Serial Number
8	Quantity
9	Weight and Volume details
10	Box number and number of boxes in the consignment
11	Name and address of the Contractor, Purchaser and Consignor

6.4 CUSTOMS FORMS 302

- 6.4.1 The Contractor shall be responsible for the timely request of Custom Forms 302, which may facilitate duty free import/export of supplies between EU and Non-EU countries.
- 6.4.2 The written request for a 302 form shall contain the following information:

Serial	Requirement
1	Purchaser Contract Number
2	Contract Line Item Number (CLIN), designation and quantities
3	Destination
4	Number and gross weight
5	Consignors and Consignee's name and address.
6	Method of shipment, i.e. road, air, sea, etc.
7	Name and address of the freight forwarder
8	POC to receive the Form 302

- 6.4.1 The Contractor shall ensure that forwarding agents are informed of the availability of Form 302 and how this form is utilised to avoid the payment of Customs Duties. Form 302 must be added to the shipment documents to be provided to the carrier.
- 6.4.2 Following receipt of the request by the Purchaser, normally ten (10) working days are required for the issue of the form.
- 6.4.3 These forms shall be originals and must be mailed or delivered by mail/express courier.
- 6.4.4 If an express courier has to be used by the Purchaser to ensure that the form is available on time before shipment, all associated costs shall be reimbursed by the Contractor.
- 6.4.5 If a Country refuses to accept the Form 302 and requires the payment of custom duties, the Contractor shall immediately inform the Purchaser by the fastest means available and obtain from the Custom Officer a written statement establishing that its country refuses to accept the Custom Form 302.
- 6.4.6 Only after having received Purchaser's approval, the Contractor shall pay these customs duties and shall claim reimbursement from the Purchaser.
- 6.4.7 The carrier shall be fully conversant with the application and use of Custom Form 302.
- 6.4.8 The Contractor shall add the Custom Form 302 to the shipping documentation.
- 6.4.9 It shall be noted that documents have to be originals which need to be available for the goods to cross Customs.

6.5 NOTICE OF SHIPMENT

6.5.1 Ten (10) working days prior to the delivery of any shipment of supplies, the Contractor shall provide Notice of Shipment to the Purchaser’s ILS Office and request for delivery approval, in accordance with the instruction of the Purchaser. This notice shall be provided electronically and shall include the following information:

Serial	Requirement
1	Purchaser Contract Number
2	Contract line Item Number (CLIN), designation and quantities
3	Items Description, Quantity and Manufacturer Part Number
4	Destination
5	Number of packages/containers, dimensions and gross weight
6	Consignor’s and Consignee’s name and address
7	Mode of shipment, e.g., road, air sea, etc.
8	Date of shipment
9	Number of the Form 302 used (if required)

6.6 INVENTORY

6.6.1 The Contractor shall provide the full and complete inventory/Material Data Sheet (MDS) of all items and documents to be delivered under this contract at least ten (10) working days before shipment for Purchaser review and approval. It shall contain the following information:

Field	Description
CLIN	Contract Line Item Number (number-10 digits maximum). Sequence number assigned to a particular line item in a given contract. The combination CLIN-Contract No. shall always be unique.
Nomenclature	Short Item Description (text- 35 digits). Should always start with the main item name followed if possible by a technical specification, followed by the next higher assembly names in hierarchical order, separated by commas. E.g. for a coax connector of a television cable the nomenclature should read: CONNECTOR, COAX, CABLE, TELEVISION.
EQRE (XB/ND)	Code (text-2 digits). Defines whether an item is repairable (ND) or not (XB) from a technical point of view.
True Manufacturer Part Number	True Manufacturer P/N (text-32 digits). Part Number given to this item by the original manufacturer.

Field	Description
True Manufacturer Code (or complete name and address)	True Manufacturer Code (text-5 digits). Code of the Company that has manufactured this item. This is an internationally recognized 5-digit code which is unique to that company. It corresponds to the "cage code" in the USA. Manufacturer Codes and Cage Codes are obtainable from the national governmental authorities or, if it already exists, from the "NATO Master Cross-Reference List" (NMCRL) obtainable from NAMSAs. In case the code cannot be obtained, it will be sufficient to enter the complete name and address information of the true manufacturer.
Vendor/Contractor Code (or complete name and address)	Vendor (Contractor) (text-5 digits). Company which sells the item or the complete system to which this item belongs. The vendor is the company with which the contract is placed but is not necessarily the true manufacturer of the item. If the vendor company has also designed and integrated the complete system it is also known as Original Equipment Manufacturer (OEM). The company code is an internationally recognized 5-digit code which is unique to that company. It corresponds to the "cage code" in the USA. Manufacturer Codes and Cage Codes are obtainable from the national governmental authorities or, if it already exists, from the "NATO Master Cross-Reference List" (NMCRL) obtainable from NAMSAs. In case the code cannot be obtained, it will be sufficient to enter the complete name and address information.
Vendor/Contractor Part Number	Vendor (Contractor) P/N (text-32 digits). Part Number given to this item by the company which sells the item or the complete system to which this item belongs. The vendor is the company with which the contract is placed but is not necessarily the true manufacturer of the item.
QTY ordered	Item Quantity (number-5 digits). Shows the quantity of this item ordered as individual item in this contract, i.e. if it is not delivered built-in in another unit. In case the item is not ordered as individual item or as spare unit but is built-in in another assembly, enter "0" (zero) in this field and complete fields: "Part Number of next higher assembly" and "qty in next higher assembly". Serialized items shall only have a quantity of 1.
Order Unit	Order Unit (text-2 digits). Unit under which the item is sold, e.g. each, set, meter, etc.
Serialized Item Tag	Serialized Items Tag (text-1 digit). Add a "Y" if the item carries a serial number independently whether serial numbers is already known or not. If known, complete column "Serial Number".
Serial Number	Serial Number. If Serialized Item Tag is "Y" (yes) then add serial number here. (1 serial number per line). If system is already installed, then the Contractor shall indicate here the serial numbers installed at user site. For items to be delivered to depots the Contractor may not know the serial number in advance, in that case it will be completed by the receiving site.

Field	Description
Serial Number Software Revision Level	Software Revision Level (text- 30 digits but can be expanded as necessary) If item carries a serial number and field "serial number" is completed, add SW revision level / version here if appropriate.
Serial Number Hardware Revision Level	Hardware Revision Level (text- 30 digits but can be expanded as necessary) If item carries a serial number and field "serial number" is completed, add HW revision level / version here if appropriate.
Other Serial Number attributes	Other Serial Number Attributes (text-to be defined). This field will be used and defined on a case by case basis to be decided by NCIA System Manager, NCIA and the Contractor for other attributes which might be required for a particular system.
Subject to Property Accounting	NDSS-MRCS (text-1 digit). NCIA will decide whether or not item is subject to property accounting and is to appear on the customer balance lists. This field will be completed Y or N by NCIA.
Currency	Currency (text-3 digits). International 3-digit code (ISO) representing the currency in which the item purchase price (or the estimated value) is expressed.
Price	Item Price (number-11 digits). Unit price with 2 decimals.
Warranty Expiration Date	Warranty Expiration Date (date: DD/MM/YY). Shows the date on which the warranty of this item expires, which is usually N days after delivery of the item. If delivery is scheduled for a certain date, warranty expiration date = delivery date + warranty period in days.
Receiving / Inspection Depot	Receiving / Inspection Depot (TXT-2 digits). Information will be provided to Contractor by the Purchaser's ILS Officer. This is the depot to where the vendor ships the material. Normally this depot will receive, inspect and put the material in stock against Dues-In to be created in accordance with Qty in column "Qty Ordered". In case of a deviation from this rule, the Purchaser will inform the Contractor of the correct final Depot and through which depot the items shall have to transit.
Issue to customer	Customer Code (text-4 digits - to be completed by NCIA). Code representing the customer to which the item(s) shall be shipped by the receiving/ inspecting depot.
Extended Line Item Description	Extended Line Item Description (text-no limit). Any additional information concerning this item shall be entered here, e.g. technical specifications, configuration, reference to technical drawings or manuals etc....
Part Number of next higher assembly	Part-Number of Next Higher Assembly (text-32 digits) If item is built-in another assembly, indicate part number of that assembly here.
Qty in next higher assembly	Quantity in Next Higher Assembly (number-3 digits max). This field shows the built-in quantity of the item in the next higher assembly. This information shall be provided for configuration control purposes.

Field	Description
Qty installed at Operating Unit (Customer Site)	<p>Quantity installed. This field is only applicable when the delivery is direct to an operating unit (customer site). However in that case it is mandatory.</p> <p>For non-serialized items it shows total quantity installed.</p> <p>For serialized items quantity shall only be one per serial number. Use a new line for each serial number.</p>

6.6.2 The Contractor may request an electronic version of the MDS to be provided by the Purchaser at EDC.

6.6.3 In the case that partial shipments are approved by the Purchaser, the Contractor shall make sure that the MDS clearly provides the references to SSS to show the compliance with the order and shall make the requested changes in the document based on Purchaser review.

6.7 TECHNICAL DOCUMENTATION

6.7.1 Each deliverable shall be accompanied with its COTS documentation. This documentation shall be identified in the inventory.

6.7.2 All documentation shall be in the English language.

6.8 WARRANTY & SUPPORT

6.8.1 The Contractor shall cover all devices procured under this contract with a 1 year on-site warranty with Next Business Day service.

6.8.2 The Warranty shall start at the date of Purchaser formal acceptance of the equipment at the destination sites.

6.8.3 The support/warranty shall include cost of parts, travel and per diem and shall not attract extra cost to the Purchaser. This support shall be available to the location stated in the Schedule of Supplies and Services.

6.8.4 The Contractor shall provide detailed handling instructions, including help-desk or other Point of Contact information (Contractor representative), to be contacted in case of a warranty claim. The warranty shall include standard technical telephone and email support.

6.8.5 The Contractor shall be the sole Point of Contact for the initiation of the warranty claims and execution unless otherwise approved by the Purchaser.

6.8.6 The Contractor shall provide shipment address for faulty equipment to the Purchaser. The shipment of faulty equipment to the Contractor is at the expense of the Purchaser. The shipment of repaired or replaced equipment from the Contractor to the Purchaser's place of origin shall be at the expense of the Contractor.

6.8.7 The Contractor shall be aware that, due to NATO security constraints, all failed hard disks/ drives and memory can only be repaired or replaced on-site and

cannot be removed and/ or returned to the Contractor for repair/ exchange. Failed hard disks/ drives and memory will be destroyed on-site by the Purchaser. Failed hard disks/ drives and memory shall therefore be replaced by the Contractor, at no extra cost to the Purchaser.

- 6.8.8 The Contractor shall further be responsible for the provision of any alternatives or superseding items should the original part be no longer available during the Warranty period, ensuring form, fit and functional requirements. In the case of an original items being no longer available, the Contractor shall notify and seek for Purchaser's written approval to provide the alternative items instead.

6.9 LABELLING AND MARKING

- 6.9.1 Labelling and marking shall be compliant with STANAG 4281 "NATO Standard Marking for Shipment and Storage" unless specified differently in the requirements of this Contract.

- 6.9.2 The Contractor shall produce labels and label all items furnished under the Contract with the true manufacturer's name (CAGE code), part number and serial number to ensure proper and quick identification of delivered items.

- 6.9.3 The marking shall be as permanent as the normal life expectancy of the material on which it is applied and shall be such as required for ready legibility and identification.

6.10 QUALITY ASSURANCE

- 6.10.1 Upon Purchaser request, the Contractor shall provide evidence that the QA/QC organization in his company has sufficient inherent authority and visibility in the overall corporate structure to properly execute the QA Management of a project of this size.

- 6.10.2 Upon Purchaser request, the Contractor shall address the QA/QC he applies to this project and shall describe its internal process for the quality review of the deliverables before their release to the Purchaser.

- 6.10.3 The Contractor shall ensure that the goods meet the following level of quality:

- 6.10.4 All delivered supplies are compliant with the approved technical specifications;

- 6.10.5 All delivered supplies are of the requested type and quantity;

- 6.10.6 All delivered goods are not damaged or defective.

- 6.10.7 The Contractor shall undertake quality control of each batch of equipment prior to shipment and present the report of the checks in a written form together with the shipment of goods.

- 6.10.8 If requested by the Purchaser, the Contractor shall submit the CoC(s) for each item including the replacement parts (equipment or consumables) that are provided under warranty.

6.11 SUPPLY CHAIN SECURITY

- 6.11.1 The Contractor shall warrant that all supplies furnished under this Contract are

genuine and free of malicious components, firmware and software.

- 6.11.2 The Contractor shall ensure that all equipment to be delivered are protected from malicious tampering during storage and transportation up to the point of delivery.
- 6.11.3 The Contractor shall confirm in the MDS, per item, that the items to be delivered have been checked for technical integrity and protected from malicious tampering.
- 6.11.4 The Contractor shall also identify in the MDS, per item, the identity of the supplier of the item and the identities of suppliers of major components thereof.
- 6.11.5 The Contractor shall allow and support ad-hoc spot checks and audits by the Purchaser of any of his supply chain security measures at any of the Contractor's locations and facilities used in the Contractor's supply chain relevant to this Contract.
- 6.11.6 The Purchaser reserves the right to reject any equipment delivered which does not conform to the description provided in the MDS or shows evidence of tampering. The Contractor shall replace such rejected goods at no cost to the Purchaser.

7 TESTING AND ACCEPTANCE

7.1 Testing

7.1.1 The Contractor shall execute a Factory Acceptance Test (FAT) to verify:

- (a) The full interoperability and the compatibility of:
 - (1) The laptops and desktop computers with an up-to-date Microsoft Windows 10 Enterprise Operating System;
 - (2) The laptops with the PFE HDDE in unkeyed state;
 - (3) Laptops and desktop computers with screens, mice, and keyboards;
 - (4) MFD; and,
 - (5) VTC Suite.
- (b) The correct operation of the DCEP equipment, including keys and buttons, data interfaces, fans, displays, integration of hard drives, cables, power supplies, GPU and CPU usage, batteries etc.,
- (c) The full functionality and performance as required per the SoW Annex A, and
- (d) The TEMPEST compliance.

7.1.2 The Contractor shall provide the (NATO Unclassified) FAT test plan As part of the Project Management Plan in 3.6.

- 7.1.3 The FAT shall be conducted by the Contractor at the Contractor's premises and is subject to Purchaser's approval.
- 7.1.4 The Purchaser has the right to witness the FAT and subsequent testing.
- 7.1.5 To execute the FAT the Contractor shall prepare one piece of IT equipment of each type, equivalent to the IT equipment that the Contractor agreed to deliver under this Contract. On the laptop and the desktop computer the Contractor shall install an up to date Microsoft Windows 10 Enterprise 64 bit Operating System from the original Microsoft installation media (i.e. not using a hardware specific recovery image) and install the latest drivers for the displays, storage media, drives, interfaces, keyboards, mice and any other applicable components inside - or attached to - the laptop and desktop computer. The laptop shall use the PFE HDDE.
- 7.1.6 The FAT tests results shall be documented in a test report which the Contractor shall provide to the Purchaser directly after completion of the FAT.
- 7.1.7 After approval of the FAT test report by the Purchaser and resolution of any issues the Contractor can start the delivery of the IT equipment to the Purchaser.
- 7.1.8 The Contractor shall, before shipment to the Purchaser, ensure the correct operation of each and every piece of IT equipment through Pre-Shipment Inspection (PSI) according to the test plan (as per 7.1(b)), verify TEMPEST compliance, and shipment completeness, and provide the test reports to the Purchaser.
- 7.1.9 The Contractor shall provide a Certificate of Conformance (CoC) from an accredited organization for TEMPEST C compatibility.
- 7.1.10 The Contractor will test the laptops in keyed state after they are delivered to the Purchaser at CSSC with the participation of the Contractor representative. This test will be executed within 3 weeks after the delivery of first HDDE installed laptops.

ANNEX A TECHNICAL SPECIFICATIONS

A.1 See separate SRS document

ANNEX B ANNEX-B ACRONYMS

Abbreviation	Content
CLIN	Contract Line Item Number
CIS	Communication and Information System
CoC	Certificate of Conformance
COTS	Commercial Off the Shelf
CSSC	CIS Sustainment Support Centre
DCEP	Deployable Communications and Information Equipment Pool
DCIS	Deployable CIS
dpi	dots per inch
EDC	Effectivity Date of Contract
EMC	Electromagnetic Compatibility
EMSEC	Emission Security
EU	European Union
EUD	End-User Device
FAT	Factory Acceptance Test
FMN	Federated Mission Network
FSA	Final System Acceptance
HDDE	Hard Disk Drive Encryption
ILS	Integrated Logistics Support
IT	Information Technology
KVM	Keyboard-Video-Mouse
MDS	Material Data Sheet
MFD	Multifunction Device
MS	MISSION SECRET
NIAPC	NATO Information Assurance Product Catalogue
NMCRL	NATO Master Cross-Reference List
NU/NS/MS	NATO UNCLASSIFIED
NS	NATO SECRET
OEM	Original Equipment Manufacturer
PFE	Purchaser Furnished Equipment

Abbreviation	Content
POC	Point of Contact
ppm	page per minute
SoW	Statement of Work
SRS	System Requirement Specifications
SSS	Schedule of Supplies and Services
SW	Software
TA	Target Architecture
VTC	Video Teleconference



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

Provision of Deployable CIS Equipment Pool

Short Title: DCEP Renew

Book II - Part IV

Statement of Work (SoW)

Annex A – System Requirements Specification (SRS)

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1 Introduction

1.1 Purpose

NOTE (DCEP20-1)

This System Requirements Specification (SRS) document provides the Functional and Technical requirements for the Devices to be delivered under this project.

NOTE (DCEP20-2)

This SRS defines the sizing, standards, quality and design requirements and constraints that shall be adhered to in the design (or modification of a COTS design) and implementation of this project.

NOTE (DCEP20-3)

The SRS does not discuss quantities to be delivered. These are covered under the scope description in the SOW.

1.2 Conventions

1.2.1 SRS Document

NOTE (DCEP20-5)

Information and requirements contained under a "General" heading are applicable to all the elements covered by the corresponding section.

NOTE (DCEP20-6)

All statements are identified with a Unique Reference called the Key.

NOTE (DCEP20-7)

Mandatory requirements are identified as **SRS**.

NOTE (DCEP20-8)

General informational, descriptive text is identified as **NOTE**.

NOTE (DCEP20-9)

Statements in numbered lists (i= 1 to 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 Key-i) and be subject to verification individually.

SRS (DCEP20-10)

A specific SRS statement shall always supersede the conventions of this section of the document.

1.2.2 Definitions

NOTE (DCEP20-23)

"-xx" is the generic suffix denoting either NATO Unclassified (NU), NATO Secret (NS) or Mission Secret (MS).

NOTE (DCEP20-24)

"-xS" is the generic suffix denoting both NS and/or MS.

SRS (DCEP20-25)

Requirements stating a capability to be "supported" (i.e. "shall support") shall be understood as the ability of the Purchaser to configure the capability to be active or not active at his discretion. This means that the capability is not necessary implemented upon delivery, but shall be available in its full extent, without restrictions.

SRS (DCEP20-26)

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.

SRS (DCEP20-27)

Requirements stating to be supported or implemented "fully conformant" to an architecture shall be understood as requiring full correspondence between architecture specification and implementation, where all features of this specific requirement are implemented in accordance with the architecture specification and there are no features of this specific requirement implemented that are not covered by the architecture specification.

NOTE (DCEP20-28)

The term "including" is never meant to be limiting - the list that follows is always non-exhaustive.

NOTE (DCEP20-32)

The use of the term "notional" is to be interpreted as guidance only.

SRS (DCEP20-35)

The term "enable" (or enabled) is to be interpreted in the way that the capability needs to be implemented but no CIS equipment is meant to be installed nor delivered. For example, if a rack needs to be "enabled" for the integration of a Radio transmitter, it means that the rack is equipped with the Radio Transmitter integration kit (cabling, mounting shelves...) but the Radio Transmitter itself is not to be delivered.

SRS (DCEP20-36)

"Open" shall be understood as enabling the basic functionality to be modified or extended through mechanisms such as API and plugins without any proprietary constraints.

1.2.3 Interfaces

SRS (DCEP20-42)

Labels shall be applied using a method that provides a legible, durable and non-fading result capable of withstanding exposure to the environmental conditions during operation, storage, transport and handling.

SRS (DCEP20-43)

Whenever possible, the labels shall be applied in such a manner that allows them to be visible after installation.

SRS (DCEP20-44)

The labels shall be subject to the same environmental testing regime as the equipment they are attached on (both for indoor and outdoor use).

SRS (DCEP20-45)

The labels shall withstand the same environmental conditions as the equipment they are attached on (both for indoor and outdoor use).

1.3 Applicable standards

1.3.1 EMC and EMSEC

NOTE (DCEP20-69)

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.

NOTE (DCEP20-70)

Emission Security (EMSEC) is an analysis of a system's vulnerability to unauthorized access and subsequent exploitation as a result of issues with electromagnetic emanations from hardware.

NOTE (DCEP20-71)

TEMPEST concerns preventing attacks using compromising radio frequency emanations.

SRS (DCEP20-73)

All CIS Nodes, Modules, End-User Devices and their electronic components shall be compliant with *SDIP-29/2*, latest edition (hereafter referred to as *SDIP-29/2*).

SRS (DCEP20-77)

All CIS Nodes, Modules, End-User Devices and their electronic components shall comply with *SDIP-27*, latest edition (hereafter referred to as *SDIP-27*).

SRS (DCEP20-80)

TEMPEST testing and certification shall only be performed by approved providers listed on the NATO Information Assurance Product Catalogue (NIAPC - <https://www.ia.nato.int/niapc/tempest>).

SRS (DCEP20-83)

It shall be possible to restore TEMPEST sealing, in theatre, following the replacement of one or more components.

SRS (DCEP20-84)

TEMPEST certified equipments shall be serviceable for cleaning of fans, dust filters and heatsinks, and replacement of storage media with equivalent components without impacting the TEMPEST certification after servicing.

SRS (DCEP20-86)

TEMPEST requirements applied to End-User Devices (EUD) shall extend to intermediate equipment that the Contractor provides for interoperability between pieces of equipment (e.g. DVI to DisplayPort adapters).

SRS (DCEP20-87)

For each individual piece of equipment required to meet a given TEMPEST *SDIP-27* level, a certificate shall be provided, demonstrating TEMPEST compliance for the equipment.

1.3.2 Health and Safety

SRS (DCEP20-89)

RoHS-2 Directive 2011/65/EU shall be applied to all modules, subsystems and individual components.

1.4 Structure

NOTE (DCEP20-99)

This SRS is structured as follow:

- 1) **Introduction** (this chapter) covers the *purpose* of the document, the *conventions* and the *standards* which are applicable all this document long;
- 2) **End-User Devices** covers the specifications of End-User Devices.

2 End User Devices

2.1 General

SRS (DCEP20-102)

Within a single computer category (e.g. xU Laptops, xS Desktops ...) hardware and firmware shall be identical to allow same disk image of a Windows 10 Operating System based installation to be successfully applied (cloned) to all equipment of this category without requiring additional driver installation.

SRS (DCEP20-103)

Within a single equipment category (e.g. xU Laptops, xS Desktops, MFD, ...) parts and accessories shall be fully interchangeable between all equipment of this categorie.

2.2 Hard Disk Drive Encryption

NOTE (DCEP20-104)

The Hard Disk Drive Encryption (HDDE) is the Viasat Eclipt Core 600, 256 Gb Solid State Drive, 2.5” nom. x 7 mm with part number: *FET-IL6-025635SS Solid State*.

SRS (DCEP20-107)

All computers shall be fully compatible and interoperable with the Purchaser provided HDDE.

2.3 End-Users Laptops

SRS (DCEP20-108)

Laptops shall meet or exceed the following specification:

Attribute	Minimum Requirement
Operating System	Support Microsoft Windows 10
Processor	Performances of Intel Core i5-9400H (4 Core, 8MB Cache, 2.5 GHz, 4.3GHz Turbo, 35W vPro)
GPU	Performance of Intel® Integrated UHD Graphics 630 with Thunderbolt Performance : at least @ 1024x600 in ComputeMark v2.1; USB Type-C 3.1 Gen 2 port (Thunderbolt display port); HDMI 1.4a port output for external display; Wireless Display / Miracast support for up to 1080p30
Display	<ul style="list-style-type: none"> • 14” diagonal size; • 1920 x 1080 Full HD; • 10-point multi-touch screen; • Contrast 600:1;

	<ul style="list-style-type: none"> Brightness 220 nits (auto adjustable); and, sRGB coverage of $\geq 70\%$ or CIE1931 value of $\geq 72\%$
Memory	8GB DDR4, expandable to 32GB
Keyboard	US International QWERTY
Pointing device	<ul style="list-style-type: none"> Touch pad with multi-touch support; and, Compatible with Windows Precision Touchpad Implementation
Internal Storage	<ul style="list-style-type: none"> HDDE; or, Solid State capacity: 256 GB, performance: 540MB/sec sequential read and 490MB/sec sequential write, durability: 72TBW, supported functions: TCG Opal, IEEE-1667, FDE AES-256, HIPM+DIPM and DevSleep (for those not equipped with HDDE)
I/O Ports	<ul style="list-style-type: none"> 1x USB Type-C 3.1 Gen 2 port with power delivery & display port / Thunderbolt 3 with power delivery&display port; 2x USB Type-A 3.1 Gen 1 ports; and, 1 HDMI 2.0
Wi-Fi	Intel IEEE 802.11 Dual-Band Wireless-AC 9560 Wi-Fi (vPro)
Additional Features	<ul style="list-style-type: none"> Integrated Webcam with built-in cover; Integrated Microphone Array (dual microphone with noise cancellation); Bluetooth 5.0; Integrated Smartcard reader (PIV compliant); and, TRRS 3.5mm mini-jack connector.
Power	1x Power adapter and cord (auto sensing 110/230V) with 1x USB – C Power Adapter Plus – 2*130W (Power-In Port: AC in, Power-Out Port: 1 x DC out USB-C)
Power consumption	Maximum 90 W
Security	<ul style="list-style-type: none"> Trusted Platform Module (TPM) 2.0 chip on the motherboard; AES New Instructions (AES-NI), SecureKey, BIOS Guard, OS Guard or equivalent; and, PnP and BIOS setup/boot password/system configuration protection.
Power management	Support for Windows InstantGo / Connected Standby, Speed Shift Technology
Remote management	"UEFI Enabled, supports Intel vPro Out of Band Management Technology"

Table 1 - End-user Laptop specification

SRS (DCEP20-140)

Laptops shall be equipped with an Integrated 10/100/1000 Gigabit Ethernet Network Adapter.

SRS (DCEP20-139)

Laptops shall meet SDIP-27 Level C requirements.

SRS (DCEP20-116)

Any required Laptop TEMPEST certification shall be executed and achieved with the Purchaser provided HDDE fully functioning and integrated into the laptops during the certification, where and when applicable.

SRS (DCEP20-148)

Each Laptop shall be delivered with a 100BASE-FX **1300nm** 50.125µm multimode (SC) USB powered external Network Adapted compatible with 1300nm SFP's.

SRS (DCEP20-149)

Laptops USB power external Fiber Network Adapter shall meet SDIP-27 Level C requirements.

SRS (DCEP20-109)

Each laptop shall be delivered with a docking station meeting or exceed the following specification:

- Display Ports: DisplayPort – 20 pin DisplayPort, HDMI;
- Supported Display number:2;
- Max Resolution: 3840 x 2160 @ 30 Hz, 2560 x 1440 @ 60Hz;
- USB Ports: 3x USB 3.0 ; 1x USB-C, 2xUSB-C Gen3.1;
- Audio/Headphone: 3.5 mm Combo - (1), 3.5 mm Speaker Out (1);
- AC Adapter: 180W; and,
- Docking Cable Type: DisplayPort over USB Type-C.

SRS (DCEP20-144)

Laptops docking stations shall meet SDIP-27 Level C requirements.

SRS (DCEP20-110)

~~Each Laptop shall be delivered with Kensington lock including a 1.8m cable.~~

SRS (DCEP20-111)

Each Laptop shall be delivered with a nylon carrying bag able to host the laptop and its ancillaries (e.g. **Kensington lock**, power cord, docking station...)

2.4 End-Users Desktops

SRS (DCEP20-117)

Desktop shall meet or exceed the following specification:

Attribute	Minimum Requirement
Operating System	No operating system delivery is required, but the desktop computers shall be fully Microsoft Windows 10 compatible
Form Factor	Small
Processor	Performances of Intel Core i5-8500 with at least 6 cores.
GPU	Performance of Intel UHD Graphics 630, i.e. at least 960 @ 1024x600 in ComputeMark v2.14, Triple Display Capable (1920x1200@60Hz on each display minimum); Compatible with DirectX 12 (Feature Level 12.0) and OpenGL 4.4; HDMI 1.4 and DisplayPort
Memory	8GB DDR4 user expandable to 64 GB
Optical	16x DVD+/-RW drive in a slim line external bay
Internal Storage	<ul style="list-style-type: none"> • Hard Disk Cage with Key Lock containing SATA 3.0 Solid State Drive (SSD): 256 GB, performance: 540MB/sec sequential read and 490MB/sec sequential write, durability: 72TBW, supported functions: TCG Opal, IEEE-1667, FDE AES-256. • The Hard Disk Cage shall be accessible from the front of the desktop computer without tools and shall endure daily insertion/ removal during 5 years.
I/O Ports	<ul style="list-style-type: none"> • 10x USB (6x 3.0 & 4x 2.0); • 2x Display Port 1.2; • 1x HDMI; and, • 1x UAJ front incl. audio jack split adapter.
Expansion Slots	<ul style="list-style-type: none"> • 1x PCIe x16low profile; and, • 1x PCIe x4 low profile.
Security	<ul style="list-style-type: none"> • Trusted Platform Module (TPM) 2.0 chip on the motherboard; • AES New Instructions (AES-NI), SecureKey, BIOS Guard, OS Guard or equivalent; and, • PnP and BIOS setup/boot password/system configuration protection.

Table 2 - End-user Desktop specification

SRS (DCEP20-142)

Each Desktops shall be equipped with a 100BASE-FX 1300nm multimode (SC) Network Adapted.

SRS (DCEP20-151)

Each Desktops shall be equipped with a Gigabit Ethernet 10/100/1000 MBit/s, RJ-45 port, Network Adapted.

SRS (DCEP20-141)

Desktops shall meet SDIP-27 Level B requirements.

SRS (DCEP20-121)

Any required Desktop TEMPEST certification shall be executed and achieved with the Contractor delivered HDD fully functioning and integrated into the desktops during the certification, where and when applicable.

SRS (DCEP20-118)

Each Desktop shall be delivered with Kensington lock including a 1.8m cable.

2.5 Ancillaries

2.5.1 Monitor

SRS (DCEP20-122)

Monitors shall meet or exceed the following specification:

Attribute	Minimum Requirement
Size – diagonal	23.8” screen with ultra-thin bezel
Contrast	1000:1
Brightness	250 nits
Standards	TCO certified Displays 7.0
Connections	<ul style="list-style-type: none"> • 1 x VGA; • 1 x HDMI; and, • 1 x Display Ports 1.2.
Native refresh rate	60Hz
Horizontal/vertical viewing angle	178 degrees horizontally and vertically
Native resolution	Full HD resolution 1920 x 1080 with 82% sRGB coverage or CIE 1931 value of >= 72%
Stand, Mount, Tilt and Swivel	<ul style="list-style-type: none"> • Height-adjustable stand; • Pivot rotation -90 degree to +90 degree; • Tilt: +21 degree to -5 degree; and,

	<ul style="list-style-type: none"> Swivel: 90 degree.
Power supply and cords	<ul style="list-style-type: none"> 100 to 230 VAC 50/60Hz operation; and, Power cord with CEE7/7 plug.
Cabling	1x Display Port cable (cable length 1.8m) included

Table 3 - Monitors specification

SRS (DCEP20-123)

~~Each Monitor shall be delivered with Kensington lock including a 1.8m cable.~~

SRS (DCEP20-124)

Monitors shall meet SDIP-27 Level C requirements.

2.5.2 Keyboard and Mouse

SRS (DCEP20-125)

Keyboards shall meet or exceed the following specification:

Attribute	Minimum Requirement
Layout	US International QWERTY
Compatibility	Microsoft Windows 10 Enterprise
Connectors	USB
Additional Features	Low profile keys
Cabling	Length: 1.5m

Table 4 - Keyboard specification

SRS (DCEP20-146)

Keyboards shall meet SDIP-27 Level C requirements.

SRS (DCEP20-126)

Mice shall meet or exceed the following specification:

Attribute	Minimum Requirement
Type	Optical/laser scroll mouse (5 button minimum)
Connectors	USB
Cabling	Length: 1.5m

Table 5 - Mice specification

SRS (DCEP20-147)

Mice shall meet SDIP-27 Level C requirements.

2.5.3 End-User KVM Switch

NOTE (DCEP20-127)

Keyboard-Video-Mouse (KVM) Switch will be used to control xU and xS computers.

SRS (DCEP20-128)

Keyboard-Video-Mouse (KVM) Switch shall meet or exceed the following specification:

Attribute	Minimum Requirement
Connectors	<ul style="list-style-type: none"> • Ports for 2 computers and 2 monitors; • Input: 4x HDMI and Display Port auto-sensing combo ports. • Output: <ul style="list-style-type: none"> ○ 2x HDMI and Display Port auto-sensing combo ports; and, ○ 2x USB Type-A female connector (1 designated port for mouse and 1 designated port for keyboard).
Cabling	Cabling for two computers and one monitor.

Table 6 - KVM Switch specification

SRS (DCEP20-129)

KVM Switch shall be sourced from approved vendors listed in the NATO Information Assurance Product Catalogue (NIAPC - <https://www.ia.nato.int/niapc/tempest>)

SRS (DCEP20-130)

KVM Switch shall not contain any non-volatile memory.

SRS (DCEP20-131)

KVM Switch switching sources shall be manually operated, not through “hot keys” via keyboard.

SRS (DCEP20-132)

KVM Switch automatic switching between sources shall not be allowed.

SRS (DCEP20-133)

KVM Switch shall comply with SDIP-29/2.

SRS (DCEP20-150)

KVM Switch shall meet SDIP-27 Level C requirements.

2.6 Print, Scan and Copy

2.6.1 Multifunction Device

SRS (DCEP20-134)

Multifunction Device (MFD) shall meet or exceed the following specification:

Attribute	Minimum Requirement
Printing and scanning size	A4 and A3 printing and scanning
Print resolution	Colour: 600 x 600 dpi
Scan resolution	Colour: 600 x 600 dpi
Copy resolution	Colour: 600 x 600 dpi
Paper capacity	input tray supporting 150 sheets of plain paper
Speed	<ul style="list-style-type: none"> • Print speed: <ul style="list-style-type: none"> ○ A4 black: up to 20 ppm; ○ A4 color: up to 16 ppm; ○ A3 black: up to 15 ppm; ○ A3 color: up to 10 ppm; • Copy speed: up to 20 copies per minute; and, • Scan speed: Up to 7ppm (b&w), up to 5 ppm (color).
Network	<ul style="list-style-type: none"> • Gigabit Ethernet 10/100/1000; • TCP; • IP; • SLP; • LPD; and, • SNMP v3.

Features	<ul style="list-style-type: none"> • Single Pass; • Scan to Email; • Multi Copy; • Auto Duplex; and, • Access Control at Printer.
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Table 7 - MFD specification

SRS (DCEP20-135)

MFD shall meet SDIP-27 Level C requirements.

SRS (DCEP20-136)

MFD shall include a contactless badge-reader to control Printing, Scanning and Copy activities. The badge reader shall comply with ISO 14443 and support NfcA, NfcB and IsoDep Tag Technologies.

2.7 Video Teleconference Suite

SRS (DCEP20-137)

Video Teleconference (VTC) Suite shall be composed with components listed in following table:

Component	Item
Video Conference Set	POLYCOM Realpresence 500-720P Group
Table Top Microphone	POLYCOM Microphone 22kHz with a 7.6m Cable
Projector	EPSON EB-W39 (inc. Spare projector lamp)
Projection Screen	OPTOMA 95" (241CM)
Audio cable	Kramer 3.5 mm stereo audio M/M 1.8m Cable
Video Cable	<ul style="list-style-type: none"> • Molded 15-pin HD (M) to 15-pin HD (M) 1.8m Cable; and, • Standard HDMI (M) to HDMI (M) 1.8m Cable
19in Rackmount Shelf	For mounting POLYCOM RPG 300/500
Speakers	LOGITECH Z623 (2.1, powered, 200W)

Table 8 - VTC Suite Components