Acquisition Directorate

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

NCIA/ACQ/2021/06502
25 January 2021

To:	**All Nominated Prospective Bidders**
Subject:	**Amendment No. 2 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

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 2 is to:

   a) Publish Purchaser's answers to the Batch 2 Clarification Requests (CRs) received to date for the subject RFQ. The Purchaser is providing their response to the Batch 2 of CRs at Annex A attached to this letter.

   b) Issue revised RFQ documents (Book II) as follows:

   • RFQ-CO-115259-DCEP-AMD2-Book II-Part IV-SOW Annex A SRS

3. 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.

4. This Amendment makes the following revisions:

   RFQ-CO-115259-DCEP-AMD2-Book II-Part IV-SOW Annex A SRS

   • Please see Annex A

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5. <u>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</u>.

6. 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.

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

8. 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:

Tiziana Pezzi
Digitally signed
by Tiziana Pezzi
Date: 2021.01.25
12:40:25 +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-AMD1-Book II-Part II-Contract Special Provisions_V01
     a. RFQ-CO-115259-DCEP-AMD2-Book II-Part IV-SOW Annex A SRS

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

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ACO   Attn: SPT CIS Director

NATEXs
All NATEXs

Date: 25 January 2021

TECHNICAL					
Serial Nr	**RFQ Book**	**RFQ Section Ref.**	**QUESTION**	**ANSWER**	**RFQ amended**
T.14	Book II, Part IV SOW Annex A SRS	DCEP20-121	*Should there be a HDDE (provided by the purchaser) installed in the Hard Disk Cage of the desktop pc because they are all TEMPEST Level B?*	Please see updated SRS	Please see RFQ-CO-115259-DCEP-AMD2-Book II-Part IV-SOW Annex A SRS DCEP-121
T.15	Book II, Part IV SOW Annex A SRS	DCEP20-136	*What standard is required for badge-reader? Ex. Contactless? Contact SmartCard?*	Please see updated SRS	Please see RFQ-CO-115259-DCEP-AMD2-Book II-Part IV-SOW Annex A SRS DCEP-136
T.16	Book II, Part IV SOW Annex A SRS	DCEP20-128	*Shall "Display Port or HDMI (combo connectors)" be delivered as one port (Display Port & HDMI 2 in 1)?*	Please see updated SRS	Please see RFQ-CO-115259-DCEP-AMD2-Book II-Part IV-SOW Annex A SRS DCEP-128

T.17	Book II, Part IV SOW Annex A SRS	DCEP20-116	*Are Tempest Power Filers required for Tempesting to Level C?*	Confirmed, they are required.	No amendment to RFQ required
T.18	Book II, Part IV SOW Annex A SRS	DCEP20-121	*Are Tempest Power Filers required for Tempesting to Level B?*	Confirmed, they are required.	No amendment to RFQ required
T.19	Bidding Sheets	CLIN 2.1.1	*SOW Section 2.2 states that all computers shall be fully compatible and interoperable with the Purchaser provided HDDE. However the SOW description 2.3 for the item "internal storage" states that the device can be delivered with HDDE or SSD. Are we correct in assuming that CLINS ordered with (SATA) HDDE (2.1.1, 2.2.2, 2.3.1, 2.4.1, 2.5.1) must only support a (SATA) HDDE and CLINS not specifying a (SATA) HDDE (2.6.1 & 2.7.1) must not be able to support a SATA SSD?*	All Laptops shall be identical. Those not being delivered with the PFE HDDE installed by the contractor, shall be delivered with a SSD HDD meeting specs listed in DCEP20-108.	No amendment to RFQ required

T.20	Bidding Sheets	CLIN 2.2.1	*Do you confirm the requirements of an audio jack split adapter? The desktops are in Tempest Level B, theoretically these should not be used with any non-tempested adapter or headset.*	The cables associated with the audio jack split adapters must be fully screened/shielded.	No amendment to RFQ required
T.21	Bidding Sheets	CLIN 2.9.1	*Due to the other specifications and the selection of the most suitable models we want to ask, whether a network connection of 10/100 is sufficient here (instead of 10/100/1000)?*	The Requirements stands.	No amendment to RFQ required
T.22	Bidding Sheets	CLIN 2.9.1	*Could you please clarify the feature "Access Control at Printer"? Are you expecting some type of security or are you referring to some kind of control panel / display on the device?*	RFQ-CO-115259-DCEP-AMD2-Book II-Part IV-SOW Annex A SRS, DCEP20-136.	No amendment to RFQ required
T.23	Bidding Sheets	CLIN 2.1.1	*Are we correct in our interpretation that the device must include a total of 2x power adapters. The standard adapter delivered with the device and a USB-C?*	No, only one power adapter which need to be USB-C type.	No amendment to RFQ required

T.24	Book II, Part IV SOW Annex A SRS	DCEP20-139	*Are all of the 3,404 laptops required to be TEMPEST Level C or only Batch 1 laptops. The specification appears to indicate that all laptops are TEMPEST Level C.*	Please see the response to T.10.	No amendment to RFQ required
T.25	Book II, Part IV SOW Annex A SRS	DCEP20-110,118,123	*Does the Kensington Lock have to be a branded Kensington lock or can it be an equivalent?*	No, we are not looking for a specific brand. Any brand with similar performance is fine.	No amendment to RFQ required
T.26	Book II, Part IV SOW Annex A SRS	DCEP20-111	*Can the laptop carry bag be in the form of a backpack, rucksack or satchel?*	Any carry bag will be accepted as long as: All unnecessary carrying straps can be stored in the bag without protruding; A shoulder carrying strap is available on the bag; and, A hand carry strap is available on the bag.	No amendment to RFQ required

T.27	Book II, Part IV SOW Annex A SRS	DCEP20-109	*Can the Docking Station have two Display Port connections vs. One Display Port and One HDMI. If not what is the minimum requirement?*	No, One (1) Display Port and One (1) HDMI port are the minimum.	No amendment to RFQ required
T.28	Book II, Part IV SOW	Section 7.1.10	*Is it a requirement to test the entire 1st batch of laptops delivered (518) onsite with HDDE installed or a representative sample of laptops and please confirm how many laptops are expected to be tested each day?*	It is planned to test 10% of the laptops. This shouldn't take more than 1-2 days.	No amendment to RFQ required
T.29	Book II, Part IV SOW Annex A SRS	DCEP20-108	*Can you confirm that all laptops require WIFI and Bluetooth as per the specification.*	Wi-Fi and Bluetooth must be deactivated on the TEMPEST units.	No amendment to RFQ required
T.30	Book II, Part IV SOW Annex A SRS	DCEP20-136	*Can you confirm what type of "badge" reader required on the printer (e.g. PIV, Smart card, CAC, Proximity etc.) and will this be the same as for the laptop?*	For badge access on printer, please see SOW Annex A v1.3 updated DCEP20-136. For Laptop card reader, see DCEP20-108: Smartcard, PIV compliant. Same card will be used for both usage.	No amendment to RFQ required

T.31	Book II, Part IV SOW Annex A SRS	DCEP20-134	*Can you specify the required working supply voltage for the printer? (110VAC, 230VAC or auto ranging)*	100 to 230 VAC 50/60Hz operation; and, Power cord with CEE7/7 plug.	No amendment to RFQ required
T.32	Book II, Part IV SOW Annex A SRS	DCEP20-136	*Can you provide more details on the type of security required for the Print function using a "badge-reader"*	Please see updated SRS	Please see RFQ-CO-115259-DCEP-AMD2-Book II-Part IV-SOW Annex A SRS DCEP-128
T.33	Book II, Part IV SOW Annex A SRS	DCEP20-87	*Are you asking for TEMPEST Product type certificates (one for each product) or a certificate for each item shipped, specifying the serial numbers?*	One individual certificate for each item shipped specifying the SN.	No amendment to RFQ required
T.34	Book II, Part IV, SOW	Section 7	*Can you clarify what process and documentation will be used/required to constitute acceptance of the delivered equipment, timescales etc.?*	Please see SOW. Successful completion of the FAT test will allow the delivery to Purchaser.	No amendment to RFQ required

T.35	Book II, Part IV, SOW	Section 7.1.7	*After the submission of the FAT Test Report to the purchaser what would be the expected approval time?*	Within 1 (one) month of each delivery batch acceptance is expected to be achieved.	No amendment to RFQ required
T.36	Book II, part IV SOW AMD 1	Section 3.1.1	*Please confirm how many week from PO placement will the HDDE be delivered to contractor.*	HDDEs will be delivered at least 6 weeks before the 1st batch delivery.	No amendment to RFQ required
T.37	Book II, part IV SOW AMD 1	Section 7.1.7	*Please confirm FAT report acceptance criteria as well as timescale of the approval process.*	Successful demonstration of equipment meeting the SRS requirements will be the acceptance criteria.	No amendment to RFQ required
T.38	Book II, Part IV, SOW	Section 2.7	*Shall VTC Suite be TEMPEST certified? If Yes, which level shall meet?*	Please see the response to T.9.	No amendment to RFQ required

T.39	Book II, Part IV, SOW	Section 2.3	*Would be accepted laptops configuration with Memory 8GB, but expandable to 24GB instead of 32GB?*	No	No amendment to RFQ required
T.40	Book II, Part IV SOW Annex A SRS	DCEP20-137	*Please confirm no Tempesting is required for the VTC system.*	Please see the response to T.9.	No amendment to RFQ required
T.41	Book II, Part IV, SOW	Section 2	*Are Tempest Power Filers required for Tempesting to Level C?*	Yes, they are required.	No amendment to RFQ required
T.42	Book II, Part IV, SOW	Section 2	*Are Tempest Power Filers required for Tempesting to Level B?*	Yes, they are required.	No amendment to RFQ required

T.43	Book II, Part IV SOW Annex A SRS	DCEP20-110/118/123	*Adding a cable lock creates an aerial defeating the purpose of any Tempesting, please remove this requirement to comply with Tempesting regulations.*	Confirmed, the requirement is removed	No amendment to RFQ required
T.44	Book II, Part IV SOW Annex A SRS	DCEP20-136	*Any badge system in particular? Please advice which one is intended to be used.*	Please see SOW Annex A v1.3 updated DCEP20-136.	No amendment to RFQ required
T.45	Book II, Part IV, SOW	Section 3.1.1	*Please inform us about the delivery dates for Eclypt HDDs in the context of the rollout planning. Please provide us with further information: Have these HDDs already been produced or are there already no delivery problems (CORONA) from the current point of view that could influence planning?*	HDDEs will be delivered at least 6 weeks before the 1st batch delivery. No delay is expected in the delivery of eclypt HDDEs.	No amendment to RFQ required
T.46	Book II, Part IV, SOW	Section 3.1.1	*How are warranty claims on the HDDs handled from the time of acceptance? Who is the contact person on the part of the purchaser and the manufacturer or supplier?*	POC for the eclypt HDDEs is the Purchaser.	No amendment to RFQ required

T.47	Book II, Part IV, SOW	Section 3.1.1	*Can we assume that the supplied Ecylpt HDDs are new goods (ex works)?*	The assumption is correct.	No amendment to RFQ required
T.48	Book II, Part IV, SOW	Section 3.1.1	*Please tell us in which form a test of the installed HDDs should be carried out.*	Please see SoW.	No amendment to RFQ required
T.49	Book II, Part IV, SOW	Section 3.1.1	*How should the HDD installation be documented?*	Please see SoW.	No amendment to RFQ required
T.50	Book II, Part IV, SOW	Section 3.1.1	*Who will take care of the handling or replacement of defective HDDs that are identified during the installation and testing?*	POC is the Purchaser. Defective HDDEs will be reported to the Purchaser.	No amendment to RFQ required

T.51	Book II, Part IV, SOW	Section 3.1.1	*Are we correct in assuming that additional expenses and delays incurred by the contractor due to the handling of defective HDDs can be charged to the purchaser?*	No additional expenses due to a defective HDDE can be charged to the Purchaser.	No amendment to RFQ required
T.52	Book II, Part IV, SOW	Section 3.1.1	*Can we assume that an additional service pool will be available or supplied to prevent time delays in warranty processing on the HDDs? This pool can then be delivered back to the purchaser at a later date.*	There is no additional service pool	No amendment to RFQ required
T.53	Book II, Part IV, SOW	Section 3.1.1	*Are we correct in assuming that all costs in the context of warranty processing on laptops that are due to a defect in the Eclypt HDD are borne by the purchaser? This also includes any costs incurred for a possible re-TEMPESTATION.*	No, no additional cost will be borne by the Purchaser.	No amendment to RFQ required
T.54	Book II, Part IV, SOW	Section 3.1.1	*What manufacturer's warranty and what warranty is associated with the Eclypt HDDs?*	Eclypt HDD will be provided as PFE. Contractor is not responsible for eclypt HDD.	No amendment to RFQ required

T.55	Bidding Sheets	CLIN 2.1.1	*Since a touchscreen is required and thus the CIE1931 value is influenced, we want to ask whether a CIE1931 value of >= 45% is sufficient here?*	Requirement stand as mentioned in DCEP 20-108, sRGB coverage of >=70% or CIE1931 value of >=72% is required No amendment to RFQ required	No amendment to RFQ required
T.56	Bidding Sheets	CLIN 2.1.1	*For the laptops, a support for Thunderbolt is required. Is it intentional that no Thunderbolt port is specified in the specifications for the docking station?*	Thunderbolt (out) from the docking station is not a requirement.	No amendment to RFQ required
T.57	Bidding Sheets	CLIN 2.9.1	*Due to the other specifications and the selection of the most suitable models we want to ask, whether a maximum copy speed of 18 copies per minute is sufficient here (instead of 20)?*	No, the requirement stands at 20ppm	No amendment to RFQ required
T.58	Book II, Part IV SOW Annex A SRS	DCEP20-108	*A 9th generation processor is specified, i5 9400H (4 core 8Mb cache, 2.5GHz, 4.3GHz turbo, 35W vPro) is a later generation processor with a lower base clock speed but an equivalent or higher CPU mark grading acceptable?*	Yes, if minimal benchmarking requirements can be met, a later gen processor is acceptable.	No amendment to RFQ required
T.59	Book II, Part IV SOW Annex A SRS	DCEP20-117	*An 8th generation processor is specified, i5 8500 6 cores is a later generation processor an equivalent or higher CPU mark grading acceptable?*	Yes, if minimal benchmarking requirements can be met, a later gen processor is acceptable.	No amendment to RFQ required

T.60	Book II, Part IV SOW Annex A SRS	DCEP20-134	*Can you please specify the required duty cycle for the printer?*	Recommended Monthly page volume 2500 to 20,000 or higher	No amendment to RFQ required
T.61	Book II, part IV, SOW AMD 1	Section 4.1	*According to the CLIN dates – test for the Keyed Eclypt HDDE should take place 15 weeks after the PO placement, whereas laptops with HDDE should be delivered between weeks 12 -16. Please clarify if only the first batch of laptops should be tested. Also please clarify number of laptops within the batch, which should be tested as well as test duration.*	sample of 10% will be tested by the Purchaser within 3 weeks after the delivery.	No amendment to RFQ required
T.62	Book II, Part IV, SOW	Section 3.1.1	*How exactly are the Eclypt HDDs delivered to the contractual partner and where is the transfer of risk (secure supply chain)?*	The contractor will pick up the HDDEs from CSSC/Brunssum- Nederland.	No amendment to RFQ required
T.63	Book II, Part IV, SOW	Section 3.1.1	*What SLA does the purchaser hold with the supplier for the Eclypt HDDs and how can the contractor use it?*	There is no SLA.	No amendment to RFQ required

T.64	Book II, Part IV, SOW	Section 3.1.1	*Are we correct in assuming that the Eclypt HDDs are identical HDDs? Both in relation to the Eclypt manufacturer no. and in relation to the OEM HDD model no.?*	Please see Sow and SRS.	No amendment to RFQ required
T.65	Book II, Part II SOW	Section 11	*Please clarify the Acceptance Criteria and Timeline from Delivery since this relates to both raising of the invoice and warranty?*	Acceptance of the materials will be in accordance with Book II - Part IV AMD 1 Version 1.1, Section 7 and Book II Part III Boa General Provisions.	No amendment to RFQ required

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Provision of Deployable CIS Equipment Pool

Short Title: DCEP Renew

Book II - Part IV

Statement of Work (SoW)
Annex A – System Requirements Specification (SRS)

Reference:	RFQ-CO-115259-DCEP
Publication Date:	06/01/2021
Classification:	NATO UNCLASSIFIED
Status:	Final
Version:	1.3
No. of pages	17

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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 superseed 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*, lastest edition (hereafter referred to as SDIP-27).

SRS (DCEP20-80)

TEMPEST testing and certification shall only be performed by approved providers listedon 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 Eclypt 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) or HDMI 1.4a port output for external display; Wireless Display / Miracast support for up to 1080p30
Display	14" diagonal size; 1920 x 1080 Full HD; 10-point multi-touch screen; - Contrast 600:1;

	• Brightness 220 nits (auto adjustable); and, • sRGB coverage of >=70% or CIE1931 value of >=72%
Memory	8GB DDR4, expandable to 32GB
Keyboard	US International QWERTY
Pointing device	• Touch pad with multi-touch support; and, • Compatible with Windows Precision Touchpad Implementation
Internal Storage	• 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	• 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	• 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	• 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 multimode (SC) USB powered external Network Adapted.

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

(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	• 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	• 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	• 1x PCIe x16low profile; and, • 1x PCIe x4 low profile.
Security	• 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

(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 Ancilliaries

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	• 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	• Height-adjustable stand; • Pivot rotation -90 degree to +90 degree; • Tilt: +21 degree to -5 degree; and,

	• Swivel: 90 degree.
Power supply and cords	• 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	• Ports for 2 computers and 2 monitors;
	• Input: 4x HDMI and Display Port auto-sensing combo ports.
	• Output:
	    o 2x HDMI and Display Port auto-sensing combo ports; and,
	    o 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.

(DCEP20-132)

KVM Switch automatic switching between sources shall not be allowed.

(DCEP20-133)

KVM Switch shall comply with SDIP-29/2.

(DCEP20-150)

KVM Switch shall meet SDIP-27 Level C requirements.

2.6 Print, Scan and Copy

2.6.1 Multifunction Device

(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: 1200 x 1200 dpi
Copy resolution	Colour: 600 x 600 dpi
Paper capacity	input tray supporting 150 sheets of plain paper
Speed	- Print speed: - 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	- Gigabit Ethernet 10/100/1000; - TCP; - IP; - SLP; - LPD; and, - SNMP v3.

Features	- Single Pass; - Scan to Email; - Multi Copy; - Auto Duplex; and, - Access Control at Printer.

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	- 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