



NATO UNCLASSIFIED

Acquisition Directorate

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NCIA/ACQ/2020/7125
06 October 2020

To : See Distribution List

Subject : **Distribution of IFB-CO-115125-e-FIT: The Provision of COTS IT Hardware Equipment and Associated Support, Amendment 3**

Reference(s) :
A. C-M(2015)0025 – NATO Financial Regulations
B. AC/337-D(2016)0014 – NCIO Financial Rules and Procedures
C. BC-D(2018)0004 – BC Military Budget Procurement Guidance
D. Commitment Number: N/A

1. Forwarded herewith for your action is a copy of the subject Invitation for Bid (IFB), Amendment 3.
2. The effective date of this IFB Amendment 3 is: 21 September 2020.

For the Director of Acquisition:

Ijeoma Ike-Meertens
Principal Contracting Officer (Acting)



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NCIA/ACQ/2020/7077
21 September 2020

To : All Nominated Prospective Bidders

Subject : **AMENDMENT 3 TO INVITATION FOR BID – IFB-CO-115125-e-FIT
The Provision of COTS IT Hardware Equipment and Associated Support**

Reference(s) : A. NCIA/ACQ/2020/6346 – Notification of Intent for IFB-CO-115125-e-FAST, and subsequent Amendment 1, original dated 27 March 2020
B. C-M(2015)0025 – NATO Financial Regulations
C. AC/337-D(2016)0014 – NCIO Financial Rules and Procedures
D. BC-D(2018)0004 – BC Military Budget Procurement Guidance
E. C-M(2002)49 – NATO Security Policy
F. NCI Agency Invitation for Bid (IFB), NCIA/ACQ/2020/6744, dated 6 July 2020
G. IFB Amendment 1, NCIA/ACQ/2020/6976, dated 10 August 2020
H. IFB Amendment 2, NCIA/ACQ/2020/7018, dated 31 August 2020

Dear Madam/Sir,

1. The purpose of this Amendment 3 is to publish the responses to the Clarification Requests (CRs) (CRs A12-A25, P92-P93, and T65-T90 – Attachment 3).
2. Please note the following important information:
 - a. The requirements of Schedule B: Storage Equipment and Schedule C: Server Equipment have been completely revised. This complete revision is also reflected in the Bidding Sheet.
 - b. A final extension to the Bid Closing Date has been made. See paragraph 4 of this letter for the new Bid Closing Date.
3. As a direct or indirect result of these CRs, the following documents have been amended and are re-issued in its entirety. Prospective Bidders are strongly advised to carefully review the revised documents. The changes within the bidding documents are denoted in **red** for ease of traceability.
 - a. Book I: Bidding Instructions
 - b. Book I: Bidding Sheets
 - c. Book II: Contract Special Provisions
 - d. Book II: Statement of Work
 - e. Book II: Statement of Work Annex A – Schedule A
 - f. Book II: Statement of Work Annex A – Schedule B
 - g. Book II: Statement of Work Annex A – Schedule C

4. The closing time for submission of bids in response to this invitation for bid is changed to **12:00 hours (Brussels Time) on Wednesday, 21 October 2020.**
5. With the exception of the revisions mentioned above, all other IFB documents remain unchanged from their original version as issued on 6 July 2020.
6. The overall security classification of this IFB is «NATO UNCLASSIFIED».
7. This Invitation for Bid and any Amendment thereto remains the property of the NCI Agency and shall be protected in accordance with the applicable national security regulations.
8. This Invitation for Bid does not constitute either a financial or contractual commitment at this stage.
9. Prospective Bidders are advised that the NCI Agency reserves the right to cancel, withdraw, or suspend this IFB at any time in its entirety and bears no liability for bid preparation costs incurred by firms or any other collateral costs if bid cancellation, withdrawal, or suspension occurs.
10. Please send all questions concerning this IFB to the undersigned at:
IFB-CO-115125-e-FIT@ncia.nato.int

For the Director of Acquisition



Ijeoma Ike-Meertens
Senior Contracting Officer

Enclosure:

- Attachment 1: Clarification Requests Answers_Amendment 3
- Attachment 2: Book I: Bidding Instructions_Amendment 3
- Attachment 3: Book I: Bidding Sheets_Amendment 3
- Attachment 4: Book II: Contract Special Provisions_Amendment 3
- Attachment 5: Book II: Statement of Work_Amendment 3
- Attachment 6: Book II: Statement of Work Annex A – Schedule A_Amendment 3
- Attachment 7: Book II: Statement of Work Annex A – Schedule B_Amendment 3
- Attachment 8: Book II: Statement of Work Annex A – Schedule C_Amendment 3

AMENDMENT 3

IFB-CO-115125-e-FIT					
Administration or Contractual Clarification Requests (CRs)					
Serial Nr	IFB Book	IFB Section Ref.	Bidder Question	NCI Agency Answer	Amendment 3 to IFB (if any)
A.12	II – Part III (Contract General Provisions)	8	Is the 10% Performance Guarantee for each task order or for the entire contract?	As the requirement for a Bid Guarantee was removed in Amendment 2 (see answer to A.2), the Performance Guarantee requirement therefore does not apply.	No amendment.
A.13	II – Part III (Contract General Provisions)	8	When and how will the Performance Guarantee be transferred back to our company after a successful performance on the contract?	See answer to A.12	No amendment.
A.14	II – Part II (Statement of Work)	8	What situations would constitute our Performance Guarantee to not be returned? Who determines whether the Performance Guarantee will be returned?	See answer to A.12	No amendment.
A.15	II – Part III (Contract General Provisions)	4.6	Has NATO considered organizing the Product Catalogs based on geography? This would likely save money in shipping and handling fees. It would also promote faster delivery of both products and services.	The Product Catalogue is NATO-wide. The different shipping regions (i.e. North America, Europe, and Turkey) identified in CLIN S.2 of each of the schedule provides for efficiency in shipping and delivery of the items.	No amendment.
A.16	N/A	N/A	1. “By limiting the bidders to only propose models of the same brand as the one specified, you are clearly disabling the capacity for the market to compete to be awarded the deal. We are also worried that this position would be at the disfavour of financial optimization for NATO. Could you please allow alternatives from other brands?”	The Agency does not believe that limiting by brand name disables the capacity for the market to compete or disfavours financial optimization for NATO. For interoperability reasons with existing system and network, the Agency has to maintain brand names where the requirements so specifies them. See also answer to A.1.	No amendment.
A.17	Part II - Contract Special Provisions	8.1.4 Warranty Resolution	This needs to be a qualified notification with details regarding device, serial no., failure description, person to contact on site, location of the device. Please confirm our understanding that these details are mandatory to count as notification relevant for SLA.	Language has been added to the table in this paragraph to address having these details as part of the log at a minimum.	Paragraph has been amended to add this language.
A.18	Part II - Contract Special Provisions	8.3	Are we right in assuming that the valuation of contract’s performance to achieve two PASS Scores per quarter is retrospective and is not aggregated over all previous quarters?	It is not aggregated over all previous quarters. Instead it is over two consecutive quarters as already reflected in paragraph 19.2 of the Contract Special Provisions. This paragraph 8.3 has been slightly reworded to better clarify.	Paragraph 8.3 is amended for better clarification.
A.19	II – Part III (Contract General Provisions)	Point 27.7	1. Please confirm our understanding that the dispatch time counts according to usual business hours (8x5). 2. Please confirm our understanding that purchaser organises the onsite access credentials for service technician. 3. Please confirm our understanding that necessary arrangements for onsite repair are organized properly i.e. systems/components are moved to non-security relevant areas for repair if necessary. 4. Please confirm our understanding that every action taken by the contractor in this context needs to be based on a qualified notification including all relevant information.	1. This is confirmed. 2. This is to be arranged on a Task Order Level. 3. This is to be arranged on a Task Order Level. 4. This is confirmed per paragraph 8.1.4 of the Contract Special Provisions.	No amendment.
A.20	II – Part III (Contract General Provisions)	Point 27.8	This point allows only two results in terms of analysis. This doesn’t mirror our results. Our analysis shows that there may be other possible causes, software failures, issues with policy settings, handling issues, incompatibilities with other devices, etc. Please confirm our understanding that we are only responsible for real hardware issues and request that the reporting results be extended and include other relevant aspects, including user issues.	As the Contractor is responsible to conduct the analysis, they can expand the analysis to include other relevant aspects that will better inform the report.	No amendment.

AMENDMENT 3

A.21	IFB-CO-115125-e-FIT_Book II-Statement of Work	Point 3.10.2	In certain areas of their product range the manufacturer/vendor has no personnel at his disposal with NATO security clearance and for all NATO sites. Therefore, the contractor cannot ensure cleared personnel for each NATO site and every system and vendor. For these cases please confirm our understanding that the purchaser will support the contractor to have equipment moved to areas to allow support/repair/exchange by non-cleared personnel or a logistics partner. The SLA starts with the purchaser's confirmation of granted access to the faulty system. Alternatively, the SLA is suspended until the technician received security clearance for the level necessary to access the area and start repair.	This paragraph has been amended to add the following language: "The Purchaser's preference is for these personnel (i.e. certified installation and professional services technicians/engineers) to have a NATO S3CRET security clearance. However, the use of un-cleared personnel may be considered on a case-by-case basis and on a Task Order level."	Paragraph 3.10.2 of the SOW is clarified on the expected level of security clearance.
A.22	IFB-CO-115125-e-FIT_Book II-Statement of Work	Point 3.10.2	In general, this framework contract evolves on the content of the product basket of each schedule and the lifecycle of the products included. EOL products are exchanged with their successors, new products need to be included based on the contract. Can the contractor refuse to have new products added to the product basket if he detects problems regarding security, service, support within the scope of his contractual obligations? The partner would of course point this out in writing.	The Contactor should use the bi-annual Technical Refresh Reviews (TRRs) per paragraph 4.5 of the Statement of Work to address and resolve such concerns.	No amendment.
A.23	IFB-CO-115125-e-FIT_Book II-Statement of Work	Point 3.11.1	Please define what "new" condition" exactly means in the scope of warranty support in this contract. To establish a service pool based on a "new device per case" model is very costly and will lead to additional uplifts. Please confirm our understanding that the implementation of a dedicated NATO service pool is allowed for replacement. This service pool will include systems that have been used in this contract only and are in very good shape. Accessories to be replaced of course will be new and unused.	This paragraph is slightly modified to state "like new".	Slight amendment made to the paragraph.
A.24	IFB-CO-115125-e-FIT_Book II-Statement of Work	Point 3.11.1	In the past we observed that more than 70% of the "warranty cases" are non-warranty related issues. Our understanding is that the purchaser expects a special service for replacement / repair of devices that might have warranty issues. These cases are not covered by the OEM and lead to additional costs. Please confirm our understanding that the bidder should calculate this special service fee, that should have a dedicated service price tag for each schedule, item, case in the bidding-sheets.	Tab 5 has been added to the Bidding Sheets where Bidders can enter this information. This information will be made part of the contract but will not be evaluated as part of this competition.	Tab 5 has been added to the Bidding Sheet.
A.25	IFB-CO-115125-e-FIT_Book II-Statement of Work	Point 3.11.5	Due to limitations within most of OEM service policies, warranty provision for most products (excluding mobile devices) normally is restricted to the country of delivery. As for normal international deliveries from the contractor to the final site destinations this doesn't pose a problem. But if the purchaser uses delivery hubs (i.e. Brunssum) and the destination is another site, the faulty device first needs to be shifted to the new destination to get OEM support. Due to security reasons the purchaser might not inform the contractor about the final destination of delivery. Therefore, the contractor is not able to inform the OEM about the shift of the device and cannot react accordingly. Please confirm our understanding that in these cases the SLA resolution time is suspended until the OEM confirmed the shift of the device to the new destination thus allowing the contractor to initiate warranty support.	Language has been added to the table in this paragraph to address this type of potential occurrence.	Paragraph 3.11.5 is amended to added language.

IFB-CO-115125-e-FIT					
Price Clarification Requests (CRs)					
Serial Nr	IFB Book	IFB Section Ref.	Question	Answer	Amendment 3 to IFB (if any)
P.92	Price Sheet	Schedule D	Because Cisco catalogue is large and include several product/service lines with different budget & margin, if NATO NCIA want to have the lower uplift or margin, this will not be possible to give only one margin on all lines. How will NATO NCIA mitigate this?	See answer to question T.74	No amendment.
P.93	Price Sheet	N/A	What about timing order (knowing NATO installed base, we could not expect many orders in the first years, certainly much less than announced (30 Mio TCO with a max. of 6 Mio/year/lot) ? So, could you give a realistic view on budget?	Per paragraph 3.1 of the Contract Special Provisions, this Framework Contract is an Indefinite Delivery, Indefinite Quantity (IDIQ) type contract for COTS IT procurement with fixed prices for hardware equipment and associated support is duly named e-FIT. The Contract has no intrinsic monetary value. The Agency will place TOs against this Framework Contract when requirements are identified and funding is available. As such, the Agency is not able to predict or estimate the number of orders that will be placed against each Schedule.	No amendment.

AMENDMENT 3

IFB-CO-115125-e-FIT Technical Clarification Requests (CRs)					
Serial Nr	IFB Book	IFB Section Ref.	Question	Answer	Amendment 3 to IFB (if any)
T.65	IFB_CO-115125-e-FIT_BookI-Annex A1-Bidding sheet	Item A.8.18	Item A.8.18 Fibre optic patch-cords does not contain any specification in book II Part IV Annex A, however the bidding sheet requires from the bidder to insert pricing for this item. Please advise.	A.8.18 is a heading, so no pricing information is needed. Pricing information is needed however, for the subsequent subCLINs of A.8.18.1-A.8.18.6.	No amendment.
T.66	9_IFB-9_CO-115125-e-FIT_Book II_Part IV_Annex A_Schedule	Item A.8.18.1 - A.8.18.6	NCIA requires for item "A.8.18.1 Fibre optic patch-cords" various options for wall outlet-side connector "LC, ST, MTRJ, SC". The price for this item depends on the connector type and is different for each option, however the Bidding sheet requires from the bidder to insert one price for any type of connector. Please advise how the bidder should price this item? The same problem is with items A.8.18.2 - A.8.18.6	These subCLINs have been further broken down to account for pricing for the Wall outlet-side connector options.	subCLINs A.8.18.1-A.8.18.6 are broken down further.
T.67	SOW	Annex A.2	In the SOW, there is an annex A who mention an example of Cisco Global Price List. Could we receive this example?	The Agency does not have an example of this list. Per 3.1.5 of the Bidding Instructions, the list is maintained by Cisco. Bidders are then responsible for consulting this list on their own in response to this Invitation for Bid (IFB).	No amendment.
T.68	9_IFB-9_CO-115125-e-FIT_Book II_Part IV_Annex A_Schedule_B_Storage Equipment	Item B.78	Regarding item B.78, please can you provide a "Model Number" / "customer code" in the form like e.g. ABC00123 (in most cases - three letters plus five digits) in order to identify the correct Sentinel SHK key 942-10001-005 distribution? This information is mandatory from the vendor side in order to provide pricing for the requested items.	This requirement is hereby deleted from the schedule.	This item is hereby deleted in its entirety and as part of the complete revision of Schedule B in its entirety.
T.69	9_IFB-9_CO-115125-e-FIT_Book II_Part IV_Annex B_Schedule	Item B.64	Item B.64 contain a specification for multiple types, lengths and quantities of cables (i.e. Fibre optic cable – SC – ST – OM3 – 3 meters – qty 100; Network cable CAT6A – S/FTP – 2 meters – Grey – qty 100, Hook and Loop Cable Wraps 20cm, 12 pieces, qty – 1, etc.) However, the bidding sheet contain only one item "Fiber optic cable - SC - ST - OM3 - 3 meters". Please advise if the bidder should ignore the rest of the items in SOW – Annex B_Schedule and price only the item stated in Bidding sheet.	This requirement is hereby deleted from the schedule.	This item is hereby deleted in its entirety and as part of the complete revision of Schedule B in its entirety.
T.70	9_IFB-9_CO-115125-e-FIT_Book II_Part IV_Annex B_Schedule	Item B.89	Item B.89 contain a specification for multiple lengths of Patch cords (i.e. PATCHCORD C6A S/FTP 0,5M GREY; PATCHCORD C6A S/FTP 1 M GREY; PATCHCORD C6A S/FTP 1,5M GREY.). However, the bidding sheet contain only a general name "ACT Patch Cords". The price of the patch cord depends on the length, therefore, please specify which length should we price in the bidding sheet.	This requirement is hereby deleted from the schedule.	This item is hereby deleted in its entirety and as part of the complete revision of Schedule B in its entirety.
T.71	9_IFB-9_CO-115125-e-FIT_Book II_Part IV_Annex B_Schedule	Item B.17	Item B.17 Cold Aisle Containment System (7 Aisles) 47U, contain in point 3 the following statement "For additional details refer to A.2 Equipment Room Floorplan". We could not find in SOW the referenced document. For pricing purpose, it is crucial to understand the floorplan therefore please provide a floorplan for each Containment Cube.	This requirement is hereby deleted from the schedule.	This item is hereby deleted in its entirety and as part of the complete revision of Schedule B in its entirety.
T.72	9_IFB-9_CO-115125-e-FIT_Book II_Part IV_Annex B_Schedule	Item B.17	Item B.17 Cold Aisle Containment System (7 Aisles) 47U contain multiple items for a 7 Aisle Cold Containment system. How should the bidder state the price for this system in Bidding Sheet? Does the whole system represent a quantity of 1 in the Bidding Sheet?	This requirement is hereby deleted from the schedule.	This item is hereby deleted in its entirety and as part of the complete revision of Schedule B in its entirety.
T.73	9_IFB-9_CO-115125-e-FIT_Book II_Part IV_Annex A_Schedule_B_Storage Equipment	Items B.71, B.77	Items B.71 and B.77 have identical specification. Is there a reason why they are stated separately, or is there an error in the specification?	This requirement is hereby deleted from the schedule.	This item is hereby deleted in its entirety and as part of the complete revision of Schedule B in its entirety.
T.74	9_IFB-9_CO-115125-e-FIT_Book II_Part IV_Annex A_Schedule_D_Cisco GPL-HW	N/A	The answer about Cisco categories only being for hardware still leaves many categories, examples below. Again these categories vary in discount, by requesting only one discount they will be averaged out and be disadvantageous for NCIA. Product Family: NEXUS Switches; Routers; Catalyst Switches - 2k, 3k, 4k, 9k; Security products; UCS; Collab portfolio; Service (Smartnet); Telephony (HW); Telephony (Licenses); Video equipment; Network Management; WiFi	Schedule D has been amended to reflect Cisco hardware subcategories. The Agency will not breakdown this subcategories any further into lower categories. It is up to the Bidders to propose the best discount in response to these subcategories.	Schedule D is amended to reflect high level subcategories for the Cisco GPL for Hardware.
T.75	9_IFB-9_CO-115125-e-FIT_Book II_Part IV_Annex A_Schedule_B_Storage Equipment	Several CLINS	N/A	Under Schedule A, updates have been made to the following CLINs: A.1.2; A.1.3; A.1.5; A.2.1; A.2.2; A.3.1; A.3.2; A.4.1; A.4.1.1; A.4.2; A.4.2.1.	See the tab 1 of the Bidding Sheet as well as Annex A_Schedule_B_Storage Equipment. Updates are demoted in red while the information the update replaces has a strikethrough.
T.76	CR T.25	Schedule_A_Stand and End-User Equipment	Regarding the NCIA response to question T.25, do we understand correctly, that the prices in our bid shall not contain the cost for built-in TEMPEST power line filtering?	The prices in your bid should contain the cost to of a tempest equipment in accordance with paragraph 2.1.3 of the Statement of Work for the corresponding CLIN with a Tempest requirement.	No amendment.

AMENDMENT 3

T.77	CR T.23	Tempest end-user items Level A and B.	Regarding the NCIA response to question T.25, Does NCIA accepts that for TEMPEST Level A/B USB connectors the bidder will provide a DB9 connector replacement (instead LEMO D9)?	Yes, if in accordance with paragraph 1.2 it is as a result of discontinuation or non-availability or obsolescence.	No amendment.
T.78	9_IFB-9_CO-115125-e-FIT_Book II_Part IV_Annex A_Schedule_B_Storage Equipment	Schedule A: A.2 Tower Workstation, A5.1 Thin Client	Grey colour will be accepted for Laptops. Will you accept grey colour for Thin Clients and Tower Workstations as well? This question is for Level A products only!	Yes, grey color will be accepted for laptops.	No amendment.
T.79	IFB-CO-115125-e-FIT_Book II-Statement of Work	SOW 3.11 Warranty & Support	What happens in case of a defect TEMPEST device with the installed hard disk or Flash Storage? Will it remain property of NATO after exchange?	Please see paragraph 3.11.14 of the Statement of Work.	No amendment.
T.80	IFB-CO-115125-e-FIT_Book II-Statement of Work	SOW A.8.6 Smartcard Reader; Schedule A 1.3	Is it possible to offer an alternative product, in case of a product is going to be end of live during the proposal solicitation period or after? In Schedule A 1.3 there is a general permission to offer a product of a different brand or model in case it fulfils the same requirements. Please confirm this assumption.	Yes, it is possible to offer an alternative product, in case of a product that is going to be end of life during the proposal solicitation period or after.	No amendment.
T.81	IFB-CO-115125-e-FIT_Book II-Statement of Work	SOW 3.11 Warranty & Support	We assume that a Saturday is as not a business day. Please clarify.	Correct, Saturday is not a business day.	No amendment.
T.82	IFB-CO-115125-e-FIT_Book II-Statement of Work	SOW Attachment 6: A.7 KVM Switch TEMPEST Level C	We assume that for the Belkin Switch or an alternative product TEMPEST Level C means "TEMPEST Level C Certified" accompanied by a certificate. Please clarify.	Yes, this assumption is correct.	No amendment.
T.83	IFB-CO-115125-e-FIT_Book II-Statement of Work	SOW 3.11 Warranty & Support	Due to possible additional delays according to customs regulation and dual use regulations for shipments into the USA, would a resolution time of 40 days be accepted for TEMPEST Products or could you confirm that those delays are not the responsibility of the contractor.	The resolution time for Tempest products can be extended past 20 business days but on a case-by-case basis and by agreement with the Purchaser.	Paragraph 3.11.8 is amended to indicate this new language.
T.84	Book I – Bidding Sheets, Schedule C	CLIN 12	There is a price requested for this position but CLIN 12 is just a headline. We assume this line should be grayed out?	Schedule C is revised in its entirety.	Schedule C is revised in its entirety.
T.85	Book I – Bidding Sheets, Schedule B	CLIN 61	There is a price requested for this position, but is just a headline. We assume this line should be grayed out?	This requirement is hereby deleted from the schedule.	This item is hereby deleted in its entirety and as part of the complete revision of Schedule B in its entirety.
T.86	Book I – Bidding Sheets, Schedule B	CLIN 62	There is a price requested for this position but is just a headline. We assume this line should be renamed and grayed out and the lines for SOW references B.65.1 to B.65.4 should be inserted?	This requirement is hereby deleted from the schedule.	This item is hereby deleted in its entirety and as part of the complete revision of Schedule B in its entirety.
T.87	IFB-CO-115125-e-FIT_Book II-Statement of Work	SOW, BOOK II – Point 3.9	Please confirm our understanding that in the event of service provisioning, all replacement systems and associated components must also be supplied as part of the SCS (as per SOW, BOOK II - PART IV, 3.9 SUPPLY CHAIN SECURITY). Due to the high safety requirements associated with the delivery, the exchange times cannot be guaranteed especially in an international context.	(1) This understanding is confirmed. (2) As it pertains to "exchange times", please see the added language in paragraphs 3.11.5 and 3.11.8.	No amendment.
T.88	Schedule A_Standard End-User Equipment	Annex A – Schedule A, A 8.2	The keyboard requested here is only available for the US-American market after current inquiry at Microsoft. Are we therefore right in assuming that we can offer a comparable ergonomic keyboard from Microsoft for the European market?	In accordance with paragraph 1.2 of Schedule A_Standard End-User Equipment, you can offer a comparable ergonomic keyboard from Microsoft for the European market.	No amendment.
T.89	Schedule A_Standard End-User Equipment	Annex A – Schedule A, A 8.18	The colour requirements for the connector types and cable lengths do not correspond to usual standards and can only be provided via expensive special assemblies. Are we therefore right in assuming that the desire for different colours is basically subordinate to the availability of standard cables?	The Agency does not believe to be the case as a simple google search would indicate that these cables are available in the colors as requested for in the specification. Therefore, Bidders shall endeavor propose and supply the requirement and only where it is not feasible, then paragraph 1.2 of Schedule A_Standard End-User Equipment, can apply.	No amendment.
T.90	IFB-CO-115125-e-FIT_Book II-Statement of Work	Schedule C – Server Equipment	There are lot of server specifications that are no longer available (for example all HPE servers Gen9 - HP DL180 G9, HPE DL380 G9, HP BL460c Gen9, etc.). Could you please clarify how to offer a replacement product and what shall be the leading factor in the replacement – technical characteristics or functional characteristics of the equipment specified?	Recognizing that some of the specification may no longer be available, the entire Schedule C is revised in its entirety.	Schedule C is revised in its entirety.

NATO Communications and Information Agency



**IFB-CO-115125-e-FIT
BOOK I**

BIDDING INSTRUCTIONS

- Provision of -

**COTS IT
HARDWARE AND ASSOCIATED SUPPORT
AMENDMENT 3**

Table of Contents

1. SECTION I - INTRODUCTION	4
2. SECTION II - GENERAL BIDDING INFORMATION	6
2.1 DEFINITIONS	6
2.2 ELIGIBILITY	6
2.3 BID DELIVERY AND BID CLOSING	7
2.4 EXTENSION OF THE BID CLOSING DATE	8
2.5 BID VALIDITY	8
2.6 BID GUARANTEE	8
2.7 MODIFICATION AND WITHDRAWAL OF BIDS	8
2.8 REQUESTS FOR IFB CLARIFICATIONS	9
2.9 REQUESTS FOR WAIVERS AND DEVIATIONS	10
2.10 AMENDMENT OF THE INVITATION FOR BIDS	10
2.11 PURCHASER POINT OF CONTACT	10
2.12 CANCELLATION OF INVITATION FOR BIDS	10
2.13 ELECTRONIC TRANSMISSION OF INFORMATION AND DATA	11
3. SECTION III - BID PREPARATION INSTRUCTIONS	12
3.1 GENERAL	12
3.2 ADMINISTRATIVE ENVELOPE	13
3.3 PRICE QUOTATION	14
3.4 TECHNICAL PROPOSAL	16
4. SECTION IV - BID EVALUATION	17
4.1 GENERAL	17
4.2 ADMINISTRATIVE CRITERIA	18
4.3 PRICE CRITERIA	18
4.4 PRICE REALISM	20
4.5 TECHNICAL CRITERIA	21
5. ANNEX A – BIDDING SHEETS	23
A – 1 BIDDING SHEETS	23
A – 2 INSTRUCTIONS FOR THE PREPARATION OF BIDDING SHEETS	24
5.1 GENERAL REQUIREMENTS	24
5.2 STRUCTURE OF BIDDING SHEETS	25
5.3 SCHEDULES A, B, AND C:	25
5.4 SCHEDULE D:	26
6. ANNEX B - CERTIFICATES	27
ANNEX B-1	28
ANNEX B-2	29
ANNEX B-3	30
ANNEX B-4	31
ANNEX B-5	32
ANNEX B-6	33
ANNEX B-7	34
ANNEX B-8	35
ANNEX B-9	36
ANNEX B-10	37
ANNEX B-11	38
ANNEX B-12	39
ANNEX B-13	40
7. ANNEX C - EXCERPT OF NCI AGENCY AD. 05.00, CODE OF CONDUCT DATED MAY 2017.41	

8.	ANNEX D – CLARIFICATION REQUESTS FORMS.....	44
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1. SECTION I - INTRODUCTION

- 1.1** The purpose of this Invitation for Bids (IFB) is to establish up to four (4) Indefinite Delivery Indefinite Quantity (IDIQ) Contract(s) for the provision of Hardware and Associated Support for a basic period of three (3) years plus two 12-month option periods. The following scope will be covered by the resulting Contract(s), referred hereafter as Schedules:
- 1.1.1.** Standard End-User Equipment
 - 1.1.2.** Storage Equipment
 - 1.1.3.** Server Equipment
 - 1.1.4.** Cisco Global Price List¹
- 1.2** The items and devices that constitute the scope of the different Schedules are listed in Annex A of the Prospective Statement of Work (Book II Section IV), with the sole exception of Schedule D, which is the Cisco Global Price List as maintained by Cisco and included by reference only.
- 1.3** The Contract's requirements are set forth in the Contract Schedule of Supplies and Services (Book II Section I) and in the prospective Contract Statement of Work.
- 1.4** This IFB is issued in accordance with the Procedures set forth in the NATO Financial Regulations, the NCIO Financial Rules and Procedures, and the BC Military Budget Procurement Guidance. In accordance thereof, bidding to the project is restricted to companies from participating NATO member nations.
- 1.5** The security of this Invitation for Bid is "NATO UNCLASSIFIED".
- 1.6** This IFB will not be the subject of a public bid opening.
- 1.7** This IFB may result in multiple Contract Awards, as each individual Schedule is subject to a separate evaluation. Award of the prospective Contract(s) pursuant to this IFB will be made to the Bidder that has offered the lowest evaluated price to any particular Schedule, and has been determined to be technically compliant with the requirements of the IFB in accordance with the evaluation criteria. The Bid evaluation criteria and the detailed evaluation procedure is described in Section 4 of these Bidding Instructions.
- 1.8** The Bidder may bid on one or more Schedules, but shall ensure these bids are provided as separate and complete packages as per the instructions at 3.1.3. If a single Bidder is evaluated to be the lowest technically compliant bidder for multiple Schedules in accordance with the evaluation criteria laid out in Section 4, these Schedules will be combined to form a single Contract.

¹ With Amendment 2 to this IFB it is clarified that the Cisco Global Price List (GPL) only refers to the Hardware sub-categories of the Cisco GPL. See section 5.4 of these Bidding Instructions.

- 1.9** Award of the resulting Contract(s) will be made on a firm fixed unit price basis for Schedules A, B and C; and on a firm and fixed discount basis for Schedule D.
- 1.10** The solicitation, evaluation and award processes will be conducted in accordance with the terms and conditions contained herein.
- 1.11** The Bidder shall refer to the Purchaser all queries for a resolution of conflicts found in information contained in this document in accordance with the procedures set forth in paragraph 2.8 of Section II of these Bidding Instructions entitled "Requests for IFB Clarifications".
- 1.12** The target date for Contract award(s) is by December 2020.

2. SECTION II - GENERAL BIDDING INFORMATION

2.1 DEFINITIONS

- 2.1.1** The term "Assembly" as used herein means an item forming a portion of equipment that can be provisioned and replaced as an entity and which normally incorporates replaceable parts or groups of parts.
- 2.1.2** The term "Bidder" as used herein refers to a firm, consortium, or joint venture which submits an offer in response to this solicitation.
- 2.1.3** The term "Compliance" as used herein means strict conformity to the requirements and standards specified in this Invitation for Bids.
- 2.1.4** The term "Contractor" refers to a firm of a participating country which has signed a Contract under which he will perform a service, manufacture a product, or carry out works for NATO.
- 2.1.5** The term "Participating Country" as used herein means any of the NATO member nations (https://www.nato.int/cps/en/natohq/nato_countries.htm) contributing to the project.
- 2.1.6** The term "Purchaser" refers to the authority issuing the IFB and/or awarding the Contract (the NCI Agency).
- 2.1.7** The term "Sub-Assembly" as used herein refers to a portion of an assembly consisting of two or more parts that can be provisioned and replaced as an entity. The definition purposely excludes components and/or parts.

2.2 ELIGIBILITY

- 2.2.1** All Contractors, sub-Contractors and manufacturers, at any tier, shall be from participating countries. All Contractors shall have had a Declaration of Eligibility submitted by their respective Governments prior to the Bid Closing Date.
- 2.2.2** None of the work, including project design, labour and services shall be performed other than by firms from and within Participating Countries.
- 2.2.3** This requirement shall also apply to all personnel involved in this project as a result of subcontracts issued by the Contractor for effort under the prime Contract.
- 2.2.4** No materials or items of equipment down to and including identifiable sub-assemblies shall be manufactured or assembled by a firm other than from and within a Participating Country.

- 2.2.5** The intellectual property rights to all design documentation and related system operating software shall reside in NATO member countries, and no license fee, or royalty charges shall be paid by the Contractor to firms, individuals or governments other than within the NATO member countries.

2.3 BID DELIVERY AND BID CLOSING

- 2.3.1** All Bids shall be in the possession of the Purchaser at the address given below **before 12h00 p.m. (Brussels Time) on Wednesday, 21 October 2020**, at which time and date bidding shall be closed.
- 2.3.2** Due to the COVID-19 restrictions imposed by some governments and organisations within the NATO alliance, the Purchaser is permitting bidders to submit Bids via email. The complete Bid shall be e-mailed, as specified below, to the following address only: IFB-CO-115125-e-FIT@ncia.nato.int
- 2.3.3** The Bid shall consist of two (2), or three (3) separate emails as elaborated in Paragraph 3.1.6 below. The different emails correlate to the required Bid Packages. A third email containing a Technical Proposal is only required if alternatives to the requirements in the scope of the applicable Schedule are proposed.
- 2.3.4** Bids which are delivered to the Purchaser after the specified time and date set forth in 2.3.1 above for Bid Closing are “Late Bids” and shall not be considered for award.
- 2.3.5** It is the responsibility of the Bidder to ensure that the Bid submission is duly completed by the specified Bid Closing time and date. If a Bid received at the NCI Agency’s facility by electronic data interchange is unreadable to the degree that conformance to the essential requirements of the solicitation cannot be ascertained, the Purchaser will immediately notify the Bidder that the Bid will be rejected unless the Bidder provides clear and convincing evidence:
- 2.3.5.1** Of the content of the Bid as originally submitted; and,
- 2.3.5.2** That the unreadable condition of the Bid was caused by Purchaser software or hardware error, malfunction, or other Purchaser mishandling.
- 2.3.6** The potential risk with respect to the information security and confidentiality during the electronic transmission of bid documentation remains solely with the Bidder. Under no circumstances can the Purchaser be held liable in case the information security or confidentiality of the documentation is compromised.
- 2.3.7** One (1) copy of the Bid shall be submitted via email. The evaluation will be based on the Bid provided via email. Due to the current state of emergency regarding COVID-19, no physical/hard copy versions of the Bid shall be provided.

2.4 EXTENSION OF THE BID CLOSING DATE

- 2.4.1** All questions and requests for extension of bid closing date shall be submitted in writing by e-mail to the Purchaser's point of contact specified in paragraph 2.11 below and shall arrive not later than seven (7) calendar days prior to the stated "Bid Closing Date". The Purchaser is under no obligation to answer requests submitted after this time. Extensions to the bidding date are at the discretion of the Purchaser.
- 2.4.2** Bidders are requested to note that due to the timelines of this IFB, the Purchaser does not encourage requests for extension of the bid closing date.

2.5 BID VALIDITY

- 2.5.1** Bidders shall be bound by the term of their bids for a period of 6 months starting from the Bid Closing Date specified at paragraph 2.3.1 above.
- 2.5.2** In order to comply with this requirement, the Bidder shall complete the Certificate of Bid Validity set forth in Annex B-3. Bids offering less than the period of time referred to above for acceptance by the Purchaser may be determined to be non-compliant.
- 2.5.3** The Purchaser will endeavour to complete the evaluation and make an award within the period referred to above. However, should that period of time prove insufficient to render an award, the Purchaser reserves the right to request an extension of the period of validity of all bids which remain under consideration for award.
- 2.5.4** Upon notification by the Purchaser of such a request for a time extension, the Bidders shall have the right to:
- 2.5.4.1** accept this extension of time in which case Bidders shall be bound by the terms of their offer for the extended period of time and the Certificate of Bid Validity extended accordingly; or
 - 2.5.4.2** refuse this extension of time and withdraw the bid without penalty.
- 2.5.5** Bidders shall not have the right to modify their bids due to a Purchaser request for extension of the bid validity unless expressly stated in such request.

2.6 BID GUARANTEE

- 2.6.1** [RESERVED]

2.7 MODIFICATION AND WITHDRAWAL OF BIDS

- 2.7.1** Bids, once submitted, may be modified by Bidders, but only to the extent that the modifications are in writing, conform to the requirements of the IFB, and are received by the Purchaser prior to the exact time and date established for

Bid Closing. Such modifications shall be considered as an integral part of the submitted bid.

- 2.7.2** Modifications to bids which arrive after the Bid Closing Date will be considered as "Late Modifications" and will be processed in accordance with the procedure set forth above concerning "Late Bids", except that unlike a "Late Bid", the Purchaser will retain the modification until a selection is made. A modification to a bid which is determined to be late will not be considered in the evaluation and selection process. If the Bidder submitting the modification is determined to be the successful Bidder on the basis of the unmodified bid, the modification may then be opened. If the modification makes the terms of the bid more favourable to the Purchaser, the modified bid may be used as the basis of Contract Award. The Purchaser, however, reserves the right to award a Contract to the apparent successful Bidder on the basis of the bid submitted and disregard the late modification.
- 2.7.3** A Bidder may withdraw its bid at any time prior to Bid Opening without penalty. In order to do so, an authorised agent or employee of the Bidder shall provide an original statement of the Bidders decision to withdraw the bid.

2.8 REQUESTS FOR IFB CLARIFICATIONS

- 2.8.1** Bidders, during the solicitation period, are encouraged to query and seek clarification of any matters of a contractual, administrative and technical nature pertaining to this IFB.
- 2.8.2** All questions and requests for clarification shall be submitted in writing by e-mail. All questions and requests shall reference the section(s) in the IFB subject for clarifications. The questions and/or requests shall be forwarded to the point of contact specified in paragraph 2.11 below and shall arrive not later than seven (7) calendar days prior to the stated "Bid Closing Date". The Purchaser is under no obligation to answer questions submitted after this time.
- 2.8.3** Bidders are advised that subsequent questions and/or requests for clarification included in a bid shall neither be answered nor considered for evaluation and may be grounds for a determination of non-compliance.
- 2.8.4** Except as provided above, all questions will be answered by the Purchaser, and the questions and answers (deprived of any means of identification of the questioner) will be issued in writing to all prospective bidders.
- 2.8.5** The published answers issued by the Purchaser shall be regarded as the authoritative interpretation of the IFB. Amendments to the language of the IFB included in the answers shall be incorporated by the Bidder in its offer.
- 2.8.6** The Purchaser reserves the right to decline clarification requests that are clearly devised for the purpose of artificially extending the bidding time, i.e. clarifications re-submitted using different wording where such wording does not change the essence of the clarification being requested.

2.9 REQUESTS FOR WAIVERS AND DEVIATIONS

- 2.9.1** Bidders are informed that requests for alteration to, waivers of, or deviations from the Schedules, the Contract Special Provisions, the NCI Agency Contract General Provisions, the Technical Specifications, the Statement of Work and any other Terms and Conditions of the Prospective Contract will not be considered after the Request for Clarification process.
- 2.9.2** Requests for alterations to the other requirements, terms or conditions of the Invitation for Bids or the Prospective Contract may only be considered as part of the clarification process set forth in paragraph 2.8 above. Requests for alterations to the specifications, terms and conditions of the Contract which are included in a Bid as submitted may be regarded by the Purchaser as a qualification or condition of the Bid and may be grounds for a determination of non-compliance.

2.10 AMENDMENT OF THE INVITATION FOR BIDS

- 2.10.1** The Purchaser may revise, amend or correct the terms, conditions and/or specifications and provisions of the IFB documents at any time prior to the date set for the Bid Closing. Any and all modifications will be transmitted to all prospective bidders by an official amendment designated as such and signed by the Contracting Authority. Such amendment shall be recorded in the Acknowledgement of Receipt which the bidder shall complete and enclose as part of its bid (See Annex B-6). This process may be part of the clarification procedures set forth in paragraph 2.8 above or may be an independent action on the part of the Purchaser.
- 2.10.2** The Purchaser will consider the potential impact of amendments on the ability of prospective Bidders' to prepare a proper bid within the allotted time. The Purchaser may extend the "Bid Closing Date" at its discretion and such extension will be set forth in the amendment document.

2.11 PURCHASER POINT OF CONTACT

- 2.11.1** Any communication regarding this IFB other than bid delivery shall be addressed to the attention of:

Attention: Ms. Natalia Wojciak
E-mail: IFB-CO-115125-e-FIT@ncia.nato.int

2.12 CANCELLATION OF INVITATION FOR BIDS

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

2.13 ELECTRONIC TRANSMISSION OF INFORMATION AND DATA

- 2.13.1** The Purchaser will endeavour to communicate answers to requests for clarification and amendments to this IFB to the prospective bidders by the fastest means possible, including the use of e-mail where the bidders have forwarded the necessary address information. All bidders are consequently strongly encouraged to provide accurate email addressing information and notify the Purchaser at the earliest practicable date should any changes occur.

3. SECTION III - BID PREPARATION INSTRUCTIONS

3.1 GENERAL

- 3.1.1** Bids shall be prepared in accordance with the instructions set forth herein. Failure to comply with these instructions may result in the Bid being declared non-compliant.
- 3.1.2** Bidders shall prepare a complete Bid which comprehensively addresses all requirements stated herein. The Bid shall demonstrate the Bidder's understanding of the IFB and its ability to provide all the deliverables and services listed in the Schedule of Supplies and Services. Bids, which are not complete, will be declared non-compliant. By submission of the Bid, Bidders shall have affirmed full compliance and acknowledgement of the Statement of Work requirements, and that all the requirements have been taken into account in the pricing of their Bid.
- 3.1.3** In the event Bidders wish to bid on multiple Schedules it shall clearly note this in its Bid and provide separate bid packages for all applicable Schedules as per the requirements of these Bidding Instructions, to allow for independent and separate evaluation by the Purchaser. As noted in Paragraph 1.8 of the Introduction, this may lead to 1 or more Schedules being awarded to a single Bidder.
- 3.1.4** Bidders shall note that any prospective Contract will be against firm and fixed unit prices. All quantities included in the bidding sheets are for evaluation purposes only.
- 3.1.5** The Bidders shall note that there are no product specifications listed as SOW Annex A for Schedule D, as the Cisco Global Price List (GPL)² maintained by Cisco will form the scope of that Schedule D. Bidders shall prepare their bid for Schedule D based on the criteria stated in the Bidding Sheets, as well as the general criteria outlined in this section of these Bidding Instructions. Detailed instructions for Schedule D are laid out in Section 5.4 of Annex A-2, Instructions for the Preparation of Bidding Sheets.
- 3.1.6** Bidders shall prepare their Bid, in two (2) emails, adhering to the following requirements:
- 3.1.6.1** For the first e-mail the subject line shall read: "IFB-CO-115125-e-FIT – Official Bid for [company name] – Part 1 – Administrative Envelope".
- 3.1.6.1.1** The Administrative Envelope shall contain 1 scanned PDF copy with sufficiently attributable digital, or physical, signatures of all the certifications

² With Amendment 2 to this IFB it is clarified that the Cisco Global Price List (GPL) only refers to the Hardware sub-categories of the Cisco GPL. See section 5.4 of these Bidding Instructions.

set forth in Annex B hereto. This pdf shall not be larger than 20MB in total, nor encrypted or password protected.

- 3.1.6.2** For the second e-mail the subject line shall read: "IFB-CO-115125-e-FIT – Official Bid for [company name] – Part 2 – Price Quotation". The Price Quotation shall contain the completed Bidding Sheets in both 1 Excel and 1 PDF copy, not larger than 20MB total. The completed Bidding Sheets shall be readable and searchable, and not be encrypted or password protected.
- 3.1.6.3** In the event the bidder is unable to provide the items matching the specific requirement in the Schedule, an equally technically compliant proposal shall be submitted in accordance with Paragraphs 3.4.1 through 3.4.7.
- 3.1.6.4** In such a case, the bidder shall provide as part of its Bid a Technical Proposal, for which the subject line shall read "IFB-CO-115125-e-FIT – Official Bid for [company name] – Part 3 – Technical Proposal".
- 3.1.6.4.1** This Technical Proposal shall contain 1 Excel and 1 PDF Copy of the list of items it is proposing to replace, along with the alternative thereto, in accordance with Paragraph 3.4.2. All documents contained in the Technical Proposal shall be readable and searchable. The documents shall not be larger than 20MB in total, nor encrypted or password protected.
- 3.1.6.5** In the event the bidder shall provide according to the contract requirements, no third email regarding a Technical Proposal is required.

3.2 ADMINISTRATIVE ENVELOPE

- 3.2.1** In this Envelope the bidder shall include the signed originals of the certifications set forth in Annex B hereto, specifically:

- B-1 Certificate of Legal Name of Bidder
- B-2 Certificate of Independent Determination
- B-3 Certificate of Bid Validity
- B-4 Certificate of Understanding
- B-5 Certificate of Exclusion of Taxes, Duties and Charges
- B-6 Acknowledgement of Receipt of Amendments to the IFB (if applicable)
- B-7 Disclosure of Requirements for NCIA Execution of Supplemental Agreements
- B-8 Certification of NATO Member Country of Origin of Delivered Equipment, Services, Material and Intellectual Property Rights

B-9 Comprehension and Acceptance of Contract Special Provisions and General Provisions

B-10 List of Prospective Sub-Contractors/Consortium Members

B-11 Certificate of AQAP 2110 or ISO 9001:2008 Compliance

B-12 Disclosure of Involvement of Former NCI Agency Employment

B-13 Supply Chain Security Self-Attestation Statement

3.2.2 No alternative versions of Certifications will be recognized, and may lead to non-compliance.

3.2.3 In summary, the Administrative Envelope shall include solely the following documentation:

3.2.3.1 All certifications in Annex B (Para 3.2.1)

3.3 PRICE QUOTATION

3.3.1 This envelope shall contain the following documentation and media:

3.3.2 The electronic file “2_IFB-CO-115125-e-FIT_Book I – Annex A1 – Bidding Sheets.xls”, submitted in both Excel and PDF as part of this IFB with all yellow highlighted areas filled in.

General Rules:

3.3.3 Bidders shall prepare their Price Quotation by completing the yellow highlighted cells of the Bidding Sheets referred in paragraph 3.3.2 above, in accordance with the instructions specified in Annex A-2.

3.3.4 The structure of the Bidding Sheets shall not be changed nor should any quantity or item description in the Bidding Sheets. The currency of each Schedule shall be shown.

3.3.5 Bidders are responsible for the accuracy of their Price Quotations. Price Quotations that have apparent computational errors may have such errors resolved in the Purchaser's favour or, in the case of gross omissions, inconsistencies or errors, may be determined to be non-compliant.

3.3.6 Bidders shall quote in their own national currency or in EUR, the host nation currency. Bidders may also submit bids in multiple currencies including other NATO member states' currencies under the following conditions:

3.3.6.1 the currency is of a "participating country" in the project, and

- 3.3.6.2** the Bidder can demonstrate, either through sub-contract arrangements or in its proposed work methodology, that it will have equivalent expenses in that currency.
- 3.3.7** Bidders shall be aware that the bid will be evaluated in EUR using the exchange rate of the day prior to bid closing date.
- 3.3.8** Offered prices shall not be "conditional" in nature. Any comments supplied in the Bidding Sheets which are conditional in nature, relative to the offered prices, may result in a determination that the bid is non-compliant.
- 3.3.9** The Purchaser, by virtue of its status under the terms of Article IX and X of the Ottawa Agreement, is exempt from all direct taxes (incl. VAT) and all customs duties on merchandise imported or exported. The Bidder, therefore, certifies that the prices stipulated in this Contract do not include amounts to cover such direct taxes or customs duties. Bidders are reminded of the requirement to complete the certification to this effect in Annex B-5.
- 3.3.10** The Bidder shall be responsible for ensuring that its respective Sub-contractors are aware that the Purchaser is exempt from taxes and customs duties. The Contractor (and its respective Sub-contractors) shall be responsible for complying with all applicable national and local legal and administrative procedures to ensure that authorities do not attempt to assess taxes and customs duties on goods and property imported or exported through NATO member nation frontiers under this Contract nor assess direct taxation (VAT) on goods sold to the NCI Agency under this Contract.
- 3.3.11** The Contractor shall be liable for all other taxes, assessments, fees, licences, administrative charges or other Government assessments or charges which are applicable to the performance of this Contract. It is the Contractor's responsibility to inform itself of its liability in each country where such liability may arise.
- 3.3.12** Unless otherwise specified in the instructions for the preparation of bidding sheets, all prices quoted in the proposal shall be DDP (Delivered Duty Paid) to specified destination, in accordance with the International Chamber of Commerce INCOTERMS 2010 and shall also cover all packaging, packing, preservation, insurance and transportation charges. Prices quoted shall include all costs for items supplied and delivered to final destination
- 3.3.13** The Bidder's attention is directed to the fact that Price Quotation shall contain no document and/or information other than the priced Bidding Sheets. Any other document of a contractual or technical nature will not be considered for evaluation and may be cause for a determination of non-compliance by the Purchaser.
- 3.3.14** Detailed instructions for the application of these instructions to the different Schedules can be found in Annex A-2.

3.4 TECHNICAL PROPOSAL

General rules:

- 3.4.1** As outlined in Paragraph 3.1.6.3, a Technical Proposal is only required in the event that a Bidder is unable to provide the items matching the specific requirement in the Schedule.
- 3.4.2** The Purchaser acknowledges the possibility that due to the fast moving nature of changes in technology, that at the time of the bid submission, some of the Agency's requirements may be discontinued, obsolete, or otherwise no longer available, thereby in need of a replacement or substitution.
- 3.4.3** With this acknowledgement, the Purchaser advises that for each Contract Line Item Number (CLIN) in the Schedule, Bidders are allowed to propose an alternative (i.e. a replacement or substitution) if due to discontinuation or obsolescence or the Agency's original requirement this particular item is no longer available or is not best suitable.
- 3.4.4** Any alternative proposed shall be: (a) same as or similar to the specification and configuration as the Agency's baseline requirement and (b) technically compliant.
- 3.4.5** Where it is a brand-named item, Bidders are allowed to propose an alternative of the same brand name with same as or similar to the specification and configuration as the Agency's baseline requirement.
- 3.4.6** An exception is made on the requirement for Belkin switches (CLIN A.7 of Schedule A in both the bidding sheets and the SOW Annex for Schedule A, paragraph A.7), where Bidders are allowed to propose an alternative brand item with same as or similar to the specification and configuration as the Agency's baseline requirement.
- 3.4.7** Where it is a non-brand named item, Bidders are allowed to propose an alternative of their choice as long as it matches or exceeds the requirements or configuration of the Agency's base line requirement.
- 3.4.8** In such a case, Bidders shall submit their Technical Proposal in one bid package per Schedule, with both the item that is to be replaced in the current requirements, as well as its alternative item, clearly listed. This alternative item shall be listed with as a minimum the item description and OEM part number - in compliance with the technical specification addressed in the SOW.

4. SECTION IV - BID EVALUATION

4.1 GENERAL

- 4.1.1** The evaluation of bids will be made by the Purchaser solely on the basis of the requirements in this IFB. The Contract(s) resulting from this IFB will be awarded to the bidder(s) whose offer, as evaluated by the Purchaser, is the lowest priced bid and in compliance with the requirements of this IFB.
- 4.1.2** In the event a Bidder wishes to bid on multiple Schedules, and has submitted multiple bid packages as per the instructions in Paragraph 3.1.3, each Schedule shall be evaluated independently and separately by the Purchaser, based on the documentation provided within that particular bid package.
- 4.1.3** The evaluation of bids and the determination as to the compliance or technical adequacy of the supplies and services offered shall be based only on that information furnished by the Bidder and contained in its bid. The Purchaser shall not be responsible for locating or securing any information which is not included in that particular bid package.
- 4.1.4** During the evaluation, the Purchaser may request clarification of the bid from the Bidder and the Bidder shall provide sufficient detailed information in connection with such requests as to permit the Purchaser to make a final determination based upon the facts. The purpose of such clarifications will be to resolve ambiguities in the bid and to permit the Bidder to state its intentions regarding certain statements contained therein. The Bidder is not permitted any cardinal alteration of the bid regarding technical matters and shall not make any change to its price quotation at any time.
- 4.1.5** The Bidder's prompt response to the Purchaser's IFB clarification requests is important and therefore failure to provide the requested clarifications within the time-limits set forth in the specific Clarification Requests may cause the bid to be deemed non-compliant.
- 4.1.6** The evaluation will be conducted in accordance with the NATO Financial Regulations, the NCIO Financial Rules and Procedures, and the BC Military Budget Procurement Guidance set forth in the NATO document BC-D(2018)0004.
- 4.1.7** Evaluation of this IFB will be conducted in accordance with the "One Envelope" procedure; the administrative compliance of the Bids will be evaluated first. Bids that are declared administratively non-compliant may be rejected without further evaluation. Following evaluation for administrative compliance, the Price Proposal of each Bidder is evaluated, and subsequently only the Technical Proposals of the apparent lowest priced bid is evaluated for technical compliance with the requirements of the Statement of Work, in the event a Technical Proposal as per Paragraph 3.1.6.3 has been provided.

- 4.1.7.1** In the event a Technical Proposal has been provided, and evaluated as having failed to satisfy any of the bidding requirements, this may result in a determination of non-compliance for the entire Bid. In such a case the Bidder who has submitted the apparent second lowest priced bid will be evaluated.
- 4.1.8** In the event the apparent lowest priced bid does not contain a Technical Proposal in line with Paragraph 3.1.6.3, it will be considered the lowest priced bid and in compliance with the requirements of this IFB.
- 4.1.9** As noted in Paragraph 1.7, if a single Bidder is evaluated to be the lowest technically compliant bidder for multiple Schedules in accordance with the evaluation criteria, these Schedules will be combined to form a single Contract. If the opposite occurs, and separate Bidders are evaluated to be the lowest compliant for separate Schedules, these Schedules are to be awarded to separate Bidders as separate Contracts.

4.2 ADMINISTRATIVE CRITERIA

- 4.2.1** Prior to commencement of the Price and Technical³ evaluation, Bids shall be reviewed for compliance with the Bid Submission Requirements of this IFB. These are as follows:
- 4.2.1.1** The Bid was received by the Bid Closing Date and Time.
- 4.2.1.2** The Bid was submitted and marked properly.
- 4.2.1.3** The Administrative Package contains all the requested signed copies of the required Certificates attached as Annex B hereto.
- 4.2.2** A Bid that fails to conform to the above requirements may be declared non-compliant and may not be evaluated further by the Purchaser. Bidders whose bids were assessed as administratively non-compliant will be notified only if their proposal is evaluated as the lowest priced bid.
- 4.2.3** If it is discovered, during either the Price or Technical evaluation, that the Bidder has taken exception to the Terms and Conditions of the Prospective Contract, or has qualified and/or otherwise conditioned its offer on a modification or alteration of the Terms and Conditions or the language of the Statement of Work, the Bidder may be determined to have submitted a non-compliant bid.

4.3 PRICE CRITERIA

- 4.3.1** Price Evaluation Criteria: The Bid shall be evaluated against the following criteria:

³ If applicable.

- 4.3.1.1 Completeness and formal compliance of the Price Quotation with all IFB provisions and Bidding Instructions.
- 4.3.1.2 Evaluated Price (based on the Notional Quantities) offered for the requested CLINs in the Bidding Sheets.
- 4.3.1.3 The Bid meets the requirement for Price Realism.

4.3.2 Determination of Lowest Evaluated Priced Bid:

- 4.3.2.1 In order to determine the lowest evaluated price, the Purchaser will convert all prices quoted into Euro for purposes of comparison. The exchange rate to be utilised by the Purchaser will be the average of the official buying and selling rates of the European Central Bank at close of business on the last working day preceding the Bid Closing Date.
- 4.3.2.2 All quantities included in the bidding sheets are for evaluation purposes only, no rights can be derived from them.

4.3.3 Inconsistencies and Discrepancies in Bid Price Quotation

- 4.3.3.1 In case of inconsistencies, discrepancies and/or contradictory pricing information in the different parts of the Bid price submission and notwithstanding the possibility for the Purchaser, at its sole discretion to obtain clarification from the bidder, for the purpose of determining the total price of the Bid, the following order of precedence shall apply:
- 4.3.3.2 PDF copy of the completed Bidding Sheets
- 4.3.3.3 Microsoft Excel copy of the completed Bidding Sheets

4.3.4 Basis of Price Comparison

- 4.3.4.1 The sum of the Total Evaluated Fixed Prices offered shall be compared on the basis of the prices offered converted to Euro as stated in paragraph 4.3.2 above.
- 4.3.4.2 The Bid will be evaluated against the following criteria:
 - 4.3.4.2.1 The Bidder shall have furnished firm fixed unit prices for all items listed (including Options), with the sole exception of Schedule D, where the Bidder shall provide a fixed discount percentage over all the items in the Cisco GPL⁴, as explained in 5.4.1 in the detailed Bidding Instructions below.
 - 4.3.4.2.2 All pricing data, i.e., quantities, unit prices, shall be provided as reflected in the Bidding Sheets.

⁴ With Amendment 2 to this IFB it is clarified that the Cisco Global Price List (GPL) only refers to the Hardware sub-categories of the Cisco GPL. See section 5.4 of these Bidding Instructions.

- 4.3.4.2.3** Bid prices shall include all costs for items supplied, delivered, and supported.
- 4.3.4.2.4** The Bidder shall have provided accurate unit prices of each of the sub-items(s) he has added (if any).
- 4.3.4.2.5** The bidder shall have provided accurate unit price and total evaluated price for each line item.
- 4.3.4.2.6** The evaluated grand total shall be accurate.
- 4.3.4.2.7** The currency of Schedule shall be clearly indicated.
- 4.3.4.2.8** Bidders may quote in their own national currency or in EUR, the host nation currency, or they may submit bids in multiple currencies only in accordance with paragraph 3.3.6 above.
- 4.3.4.2.9** All prices shall be accurately entered into appropriate columns, and accurately totalled.
- 4.3.4.2.10** Bidders shall have indicated that in accordance with the treaties governing the terms of business with NATO, exclude from their prices all taxes, duties and customs charges from which the Purchaser has been exempted.
- 4.3.4.2.11** Price quotes for each individual item, and totalled prices shall be accurate and realistic, based on historic data, and/or market and competitive trends in the specified industrial sectors.

4.4 PRICE REALISM

- 4.4.1** Otherwise successful Bidders that submit a price quotation so low that it is not a realistic reflection of the objective cost of performance of the associated technical proposal may be considered by the Purchaser to have submitted an unrealistic offer and that offer may be determined to be non-compliant.
- 4.4.2** Indicators of an unrealistically low bid may be the following, amongst others:
 - 4.4.2.1** Costs that are considered to be too low for the amounts and/or types of material proposed, based on prevailing market prices for such material.
 - 4.4.2.2** Numerous Line Item prices for supplies and services that are provided at no cost or at nominal prices.
- 4.4.3** If the Purchaser has reason to suspect that a Bidder has artificially debased its prices in order to secure Contract Award, the Purchaser will request clarification of the bid in this regard and the Bidder shall provide explanation on one of the following bases:
 - 4.4.3.1** An error was made in the preparation of the Price Quotation. In such a case, the Bidder shall document the nature of the error and show background

documentation concerning the preparation of the Price Quotation that makes a convincing case that a mistake was made by the Bidder. In such a case, the Bidder shall petition the Purchaser to either remain in the competition and accept the Contract at the offered price, or to withdraw from the competition.

- 4.4.3.2** The Bidder has a competitive advantage due to prior experience or industrial/technological processes that demonstrably reduce the costs of Bidder performance and therefore the price offered is realistic. Such an argument shall support the technical proposal offered and convincingly and objectively describe the competitive advantage and the net savings achieved by this advantage over standard market practices and technology.
- 4.4.3.3** The Bidder recognises that the submitted Price Quotation is unrealistically low compared to its cost of performance and, for business reasons, the Bidder is willing to absorb such a loss. Such a statement can only be made by the head of the business unit submitting the Bid and will normally be made at the level of Chief Operating Officer or Chief Executive Officer. In such a case, the Bidder shall estimate the potential loss and show that the financial resources of the Bidder are adequate to withstand such reduction in revenue.
- 4.4.4** If a Bidder fails to submit a comprehensive and compelling response on one of the bases above, the Purchaser may determine the Bid submitted as non-compliant. If the Bidder responds on the basis of a) above and requests to withdraw from the competition, the Purchaser may, depending on the nature and gravity of the mistake, allow the Bidder to withdraw.
- 4.4.5** If the Purchaser accepts the Bidder's explanation of mistake in paragraph 4.4.3(a) and allows the Bidder to accept the Contract at the offered price, or the Purchaser accepts the Bidder's explanation pursuant to paragraph 4.4.3(c) above, the Bidder shall agree that the supporting pricing data submitted with its Bid will be incorporated by reference in the resultant Contract. The Bidder shall agree as a condition of Contract signature, that the pricing data will be the basis of determining fair and reasonable pricing for all subsequent negotiations for modifications of or additions to the Contract and that no revisions of proposed prices will be made.
- 4.4.6** If the Bidder presents a convincing rationale pursuant to paragraph 4.4.3(b) above, no additional action will be warranted. The Purchaser, however, reserves its right to reject such an argument if the rationale is not compelling or capable of objective analysis. In such a case the Bid may be determined to be non-compliant.

4.5 TECHNICAL CRITERIA

- 4.5.1** As outlined in Paragraph 3.1.6.3, a Technical Proposal is only required in the event that a Bidder is unable to provide the items matching the specific requirement in the Schedule.

- 4.5.2** Upon determination of the lowest-priced Bid as described in Section 4.3 above, and in the event of a Technical Proposal provided as per Section 3.4, only the technical proposal of the apparent lowest priced bid shall be evaluated against the following criteria:
- 4.5.2.1** A list of the items required in the Schedule which are not to be provided.
 - 4.5.2.2** A list of the alternative items – with their description and OEM part number – to be replacing the items mentioned in 4.5.2.1 above.
 - 4.5.3** As noted in Paragraph 3.4.1 the evaluation of alternative items will be performed strictly by comparing the originally requested item as a comparative reference; only alternative items meeting or exceeding all specifications of the Agency's baseline item will be deemed compliant.

5. ANNEX A – BIDDING SHEETS

A – 1 BIDDING SHEETS

(see separate Excel file, “2_IFB-CO-115125-e-FIT_Book I-Annex A1-Bidding Sheets”)

A – 2 INSTRUCTIONS FOR THE PREPARATION OF BIDDING SHEETS

5.1 GENERAL REQUIREMENTS

- 5.1.1** Bidders are required to insert price and other information (as applicable) in all cells marked in YELLOW in the Bidding Sheets of the Schedules they are bidding on.
- 5.1.2** Bidders shall complete and submit the Bidding Sheets with their Price, or percentage if so requested, per CLIN.
- 5.1.3** The Bidder shall provide a Delivery Lead Time, which shall be understood to start from the date of reception of the Task Order.
- 5.1.4** The total price shall be indicated in the appropriate columns and in the currency quoted.
- 5.1.5** The total evaluated price shall be the price of the base Contract. Bidders shall note that any prospective contract will be for unit prices, but that the evaluation is based on the lowest total evaluated price. The prices entered on the Bidding Sheets shall reflect the total notional items provided. All quantities included in the bidding sheets are for evaluation purposes only.
- 5.1.6** If the price of a CLIN is expressed in different currencies, these shall be identified. The evaluation will be conducted by converting all prices to Euro by using the exchange rate of the last business day prior to bid closing date.
- 5.1.7** Prices shall not include any provision for taxes or duties for which the Purchaser is exempt.
- 5.1.8** Bidders shall not introduce any changes or deviations to the Bidding Sheets as provided by the Purchaser, unless otherwise specified.
- 5.1.9** Bidders are advised that formulae are designed to ease evaluation of the bidders proposal have been inserted in the electronic copies of the Bidding Sheets. Notwithstanding this the Bidder remains responsible for ensuring that their figures are correctly calculated and should not rely on the accuracy of the formulae electronic copies of the Bidding Sheets.
- 5.1.10** If the Bidder identifies an error in the spreadsheet, it should notify the Purchaser who will make a correction and notify all the bidders of the update. Any discounted or reduced prices offered by the bidder shall be traceable to a CLIN or CLINs at the lowest level. Prices and detail of the traceability of application of the discount shall be clearly identified in the supporting detail sheets and applied at the unit price level.

5.2 STRUCTURE OF BIDDING SHEETS.

- 5.2.1** The Bidding Sheets provided in MS Office Excel format are organised according to the following structure:
- 5.2.1.1.** General Instructions for completing the Bidding sheets
 - 5.2.1.2.** Schedules A, B, C and D
- 5.2.2** The Bidding Sheets corresponds to the Schedule of Supplies and Services of the Prospective Contract. Each Schedule included in the competition is represented by a single Bidding Sheet showing the Contract Line Items (CLINs) included within the scope of that Schedule (Detailed bidding sheet tabs) and a detailed cost breakdown attached to each schedule.
- 5.2.3** Bidders shall provide Firm Fixed Unit Prices – or percentages – as requested for all required items in accordance with the format set forth in the Bidding Sheets, and as per the Instructions established in this Annex.
- 5.2.4** Bidders shall make sure that they have filled all delivery lead times in the allocated cells.
- 5.2.5** Bidders shall note that any prospective contract will be for unit prices. All quantities included in the bidding sheets are for evaluation purposes only.

5.3 SCHEDULES A, B, AND C:

- 5.3.1** Bidders shall fill in the CLIN Bidding Sheet for these Schedules based on the information provided. This includes the unit prices, delivery lead times, Engineering Services, Volume Discount, Shipment Costs, and Warranty Extensions. Both the Shipment Costs and the Warranty Extensions are to be percentages over the unit price per applicable CLIN.
- 5.3.2** The prices shall be intended as the comprehensive total price offered for the fulfilment of all requirements as expressed in the IFB documentation including but not limited to those expressed in the SOW.
- 5.3.3** When completing the Bidding Sheets, a unit price for each price band needs to be supplied on each CLIN. Prices should not be grouped. The Bidder shall provide fixed unit prices, for all proposed CLINs provided for in this IFB. The Bidder may provide the same price for different price bands, if it chooses to do so
- 5.3.4** The quantities and orders provided in the document are notional and for evaluation purposes only, yet attempt to reflect the total items required to meet the annual contractual requirements. No rights may be derived from these notional quantities of items and orders, as Purchaser requirements may vary throughout the period of performance of the Contract.

- 5.3.5** The total evaluated price shall be indicated in the appropriate columns and in the currency quoted. The accuracy of the inputs of the Bidding Sheets is the responsibility of the Bidder. The Purchaser may resolve ambiguous computation of prices in its favour.

5.4 SCHEDULE D:

- 5.4.1** The Scope of Schedule D consists of the Hardware sub-categories of the Cisco Global Price List (GPL) as maintained by Cisco. Bidders shall provide a firm and fixed discount percentage over this portion of the GPL. The discount percentage shall apply to all hardware within the GPL, throughout the period of performance of the Contract.
- 5.4.2** Additionally, Bidders shall provide delivery lead times, Engineering Services, Shipment Costs, and Warranty Extensions. Both the Shipment Costs and the Warranty Extensions are to be percentages over the unit price per applicable CLIN.
- 5.4.3** The Scope of Schedule D is subject to daily amendments, it is understood that the percentages and prices provided by the Bidders are to remain in place for the entire period of performance of the Contract.

6. ANNEX B - CERTIFICATES

ANNEX B-1**CERTIFICATE OF LEGAL NAME OF BIDDER**

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

FULL NAME OF CORPORATION: _____

DIVISION (IF APPLICABLE): _____

SUB DIVISION (IF APPLICABLE): _____

OFFICIAL MAILING ADDRESS _____

E-MAIL ADDRESS _____

FAX NO: _____

BOA NO: _____

POINT OF CONTACT:

REGARDING THIS BID: NAME: _____

POSITION: _____

TELEPHONE: _____

E-MAIL ADDRESS: _____

ALTERNATIVE POINT OF CONTACT:

NAME: _____

POSITION: _____

TELEPHONE: _____

E-MAIL ADDRESS: _____

DATE

SIGNATURE OF AUTHORISED REPRESENTATIVE

PRINTED NAME

TITLE

ANNEX B-2**CERTIFICATE OF INDEPENDENT DETERMINATION**

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

.....
Date.....
Signature of Authorised Representative.....
Printed Name and Title.....
Company

ANNEX B-3

CERTIFICATE OF BID VALIDITY

I, the undersigned, as an authorised representative of the firm submitting this bid, do hereby certify that the pricing and all other aspects of our Bid will remain valid for a period of six (6) months from the Bid Closing Date of this Invitation for Bids.

.....
Date

.....
Signature of Authorised Representative

.....
Printed Name and Title

.....
Company

ANNEX B-4

CERTIFICATE OF UNDERSTANDING

I certify that

.....
.....(*Company Name*) has read and
fully understands the requirements of this Invitation for Bids (IFB) and that the Bid
recognises these requirements in total.

I also certify to the best of my expert knowledge that this Bid is within the "state of art"
boundaries as they exist at the time of bidding for this project.

.....
Date

.....
Signature of Authorised Representative

.....
Printed Name and Title

.....
Company

ANNEX B-5

CERTIFICATE OF EXCLUSION OF TAXES, DUTIES AND CHARGES

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

.....
Date

.....
Signature of Authorised Representative

.....
Printed Name and Title

.....
Company

ANNEX B-6**ACKNOWLEDGEMENT OF RECEIPT OF IFB AMENDMENTS**

I confirm that the following Amendments to Invitation for Bids IFB-CO-115125-e-FIT have been received and the Bid as submitted reflects the content of such Amendments:

Amendment Number	Date Issued	Date of Receipt

.....
Date

.....
Signature of Authorised Representative

.....
Printed Name and Title

.....
Company

ANNEX B-7**DISCLOSURE OF REQUIREMENTS FOR NCIA EXECUTION OF
SUPPLEMENTAL AGREEMENTS**

I, the undersigned, as an authorised representative of(*Company Name*), certify the following statement:

1. All supplemental agreements, defined as agreements, documents and/or permissions outside the body of the Contract but required by my Government, and the governments of my sub-Contractors, to be executed by the NCIA as a condition of my firm's performance of the Contract, have been identified, as part of the Bid.
2. These supplemental agreements are listed as follows:
2.1. *[insert the list, if applicable]*
3. Examples of the terms and conditions of these agreements are attached hereto. The anticipated restrictions to be imposed on NATO, if any, have been identified in our offer along with any potential conflicts with the terms, conditions and specifications of the Prospective Contract, see.....(*complete, if any*). These anticipated restrictions and potential conflicts are based on our knowledge of and prior experience with such agreements and their implementing regulations. We do not certify that the language or the terms of these agreements will be exactly as we have anticipated.
4. The processing time for these agreements has been calculated into our delivery and performance plans and contingency plans made in the case that there is delay in processing on the part of the issuing government(s), see(*complete, if any*).
5. We recognise that additional supplemental agreements, documents and permissions presented as a condition of Contract performance or MOU signature after our firm would be selected as the successful Bidder may be cause for the NCIA to determine the submitted bid to be non-compliant with the requirements of the IFB;
6. We accept that should the resultant supplemental agreements issued in final form by the government(s) result in an impossibility to perform the Contract in accordance with its schedule, terms or specifications, the Contract may be terminated by the Purchaser at no cost to either Party.

.....
Date

.....
Signature of Authorised Representative

.....
Printed Name and Title

.....
Company

ANNEX B-8**CERTIFICATION OF NATO MEMBER COUNTRY ORIGIN OF DELIVERED
EQUIPMENT, SERVICES, MATERIALS AND INTELLECTUAL PROPERTY
RIGHTS**

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

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

.....
Date.....
Signature of Authorised Representative.....
Printed Name and Title.....
Company

*This definition purposely excludes components and/or parts (as defined in AcodP-1), which are not subject to this certification.

ANNEX B-9

**COMPREHENSION AND ACCEPTANCE OF CONTRACT SPECIAL PROVISIONS
AND GENERAL PROVISIONS**

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

.....
Date

.....
Signature of Authorised Representative

.....
Printed Name and Title

.....
Company

ANNEX B-10**LIST OF PROSPECTIVE SUB-CONTRACTORS/CONSORTIUM MEMBERS**

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

If no sub-Contractors/consortium members are involved, state this here:

.....

 .

.....
 Date

.....
 Signature of Authorised Representative

.....
 Printed Name and Title

.....
 Company

ANNEX B-11

CERTIFICATE OF AQAP 2110 OR ISO 9001:2008 COMPLIANCE

I hereby certify that (*Company Name*) is fully compliant with the AQAP 2110 or ISO 9001:2008 Quality Assurance Standards and Procedures and is currently so certified.

A copy of the certification is attached herewith.

.....
Date

.....
Signature of Authorised Representative

.....
Printed Name and Title

.....
Company

ANNEX B-12**DISCLOSURE OF INVOLVEMENT OF FORMER NCI AGENCY EMPLOYMENT**

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

The Bidder hereby acknowledges the post-employment measures applicable to former NCI Agency Personnel as per the NCI Agency Code of Conduct.

The Bidder hereby certifies that its personnel working as part of the company's team, at any tier, preparing the Bid:

- ☐ Have not held employment with NCI Agency within the last two years.
- ☐ Has obtained a signed statement from the former NCI Agency personnel below, who departed the NCI Agency within the last two years, that they were not previously involved in the project under competition (as defined in the extract of the NCI Agency Code of Conduct provided below):

Employee Name	Former NCIA Position	Current Company Position

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

Date:

Signature:

Name & Title:

Company:

Bid Reference:

ANNEX B-13**Supply Chain Security Self-Attestation Statement**

[Name Contractor]

I hereby as [Contractor] affirm that the security of the supply chain for Commercial off the Shelf communication and information systems products listed in the Schedule of Supplies and Services of the contract in question has been assessed and found compliant against the Statement of Work requirements of the contract in question.

I endorse this supply chain security statement for the products within the scope of this contract.

I can supply supporting evidence if required.

Date

Signature of Authorised Representative

Printed Name

Title

Company

7. ANNEX C - EXCERPT OF NCI AGENCY AD. 05.00, CODE OF CONDUCT DATED MAY 2017.

Article 14 PROCUREMENT AND CONTRACTORS

- 14.1 NCI Agency Personnel are required to maintain unquestionable integrity and impartiality in relation to procurements initiated by the NCI Agency.
- 14.2 NCI Agency Personnel shall not disclose any proprietary or contract related information regarding procurement directly or indirectly to any person other than a person authorized by the NCI Agency to receive such information. NCI Agency Personnel shall not disclose any documentation related to a procurement action to any third party without a need to know (e.g., draft statement of work, statement of requirements) unless this is expressly provided under NATO Procurement Regulations or authorized in writing by the Director of Acquisition. During an on-going selection, NCI Agency Personnel shall not disclose any information on the selection procedure unless authorized by the Chairman of the award committee/board. The NCI Agency Personnel concerned will ensure that proper access controls are put in place to prevent disclosure of procurement information that has not yet been authorized for release for outside distribution, including draft statements of work and requirement documentations.
- 14.3 NCI Agency Personnel will not participate in a source selection if an offer has been provided by a friend, family member, a relative, or by a business concern owned, substantially owned, or controlled by him/her or by a friend, family member or a relative. NCI Agency Personnel appointed as part of an evaluation shall report such links to the Director of Acquisition immediately upon becoming aware of it.
- 14.4 Contractors and consultants shall not be allowed to participate in the drafting of the statement of work or in the source selection process unless they and their company/employer will be excluded from competition of the related contract. The same will apply to contractors and consultants involved in the definition and development of requirements.
- 14.5 Contractors will be given specific and coherent statements of work, providing precise explanation of how she/he is going to be employed. Tasks to be performed and minimum qualifications are to be well defined from the start. In addition, supervisors will ensure that contractors do not occupy managerial positions within the Agency.
- 14.6 NCI Agency Personnel shall not enter into authorized commitments in the name of NCI Agency or NATO unless specifically authorized. NCI Agency Personnel must abstain from making promises or commitment to award or amend a contract or otherwise create the appearance of a commitment from the NCI Agency unless properly authorized by the NCI Agency.

- 14.7 NCI Agency Personnel shall not endorse directly or indirectly products from industry. Therefore, NCI Agency Personnel shall not name or make statements endorsing or appearing to endorse products of specific companies.
- 14.8 Industry partners will need to abide with the post-employment measures under this Directive upon submission of their bids / proposals to the NCI Agency. As part of the selection process, industry will be requested to agree with an ethical statement.

15 INDUSTRY INITIATIVES

- 15.1 Industry initiatives may include loans, displays, tests or evaluation of equipment and software, requesting NCI Agency speakers at industry gatherings and conferences, inviting speakers from industry to NCI Agency events, consultancy or studies of technical or organizational issues, etc. These initiatives are usually at no cost to the NCI Agency and take place at a pre-contractual phase or before the development of requirements and specifications. While there are benefits associated with the early involvement of industry in the definition of requirements and specifications, this also raises the potential for unfair treatment of potential competitors.
- 15.2 Industry initiatives which go beyond routine interaction in connection with on-going contracts must be reported to and coordinated by the NCI Agency Acquisition Directorate for approval. Industry initiatives shall be properly documented and governed by written agreements between the NCI Agency and the company concerned where relevant. Such agreements may contain provisions describing the nature of the initiative, the non-disclosure of NCI Agency/NATO information, NCI Agency ownership of any resulting work, the NCI Agency's right to release such work product to future competitors for any follow-on competition or contract, the requirement that any studies must provide non-proprietary solutions and/or an acknowledgement that the participating companies will not receive any preferential treatment in the contracting process.
- 15.3 Any authorized industry initiatives must be conducted in such a way that it does not confer an unfair advantage to the industry concerned or create competitive hurdles for potential competitors.

16 POST EMPLOYMENT MEASURES

- 16.1 The NCI Agency will not offer employment contracts to former NCI Agency Personnel who departed less than 2 years earlier, unless prior approval by the General Manager has been received.
- 16.2 Former NCI Agency Personnel will not be accepted as consultants or commercial counterpart for two (2) years after finalization of their employment at NCI Agency, unless the General Manager decides otherwise in the interest of the Agency and as long as NATO rules on double remuneration are observed. Such decision shall be recorded in writing. Commercial counterparts include owners or majority shareholders, key account managers, or staff member, agent or consultant of a company and/or subcontractors seeking business at any tier with the NCI Agency in relation to a procurement action in which the departing

NCI Agency staff member was involved when he/she was under the employment of the NCI Agency. As per the Prince 2 Project methodology, a Project is defined as a “temporary organization that is created for the purpose of delivering one or more business products according to an agreed business case”. For the purpose of this provision, involvement requires (i) drafting, review or coordination of internal procurement activities and documentation, such as statement of work and statement of requirement; and/or (ii) access to procurement information that has not yet been authorized for release for outside distribution, including draft statements of work and requirement documentations; and/or (iii) being appointed as a representative to the Project governance (e.g., Project Board) with access to procurement information as per (ii) above; and/or (iv) having provided strategic guidance to the project, with access to procurement information as per (ii) above.

- 16.3 In addition to Section 17.2 above, former NCI Agency Personnel at grades A5 and above or ranks OF-5 and above are prohibited during twelve months following the end of their employment with the NCI Agency to engaging in negotiations, representational communications and/or advisory activities with the NCI Agency on behalf of a private entity, unless this has been agreed in advance by the NCI Agency General Manager and notified to the ASB.
- 16.4 NCI Agency Personnel leaving the Agency shall not contact their former colleagues in view of obtaining any information or documentation about procurement activities not yet authorized’ release. NCI Agency Personnel shall immediately report such contacts to the Director of Acquisition.
- 16.5 The ASB Chairman will be the approving authority upon recommendation by the Legal Adviser when the NCI Agency Personnel concerned by the above is the NCI Agency General Manager and will notify the ASB.
- 16.6 NCI Agency Personnel leaving the Agency shall sign a statement that they are aware of the post-employment measures set out in this Directive.
- 16.7 The post-employment measures set out in this Directive shall be reflected in the NCI Agency procurement documents, such as IFBs, and contract provisions.

8. ANNEX D – CLARIFICATION REQUESTS FORMS

INSERT COMPANY NAME HERE:

INSERT SUBMISSION DATE HERE:

ADMINISTRATION or CONTRACTING						
Serial Nr	IFB Book	IFB Ref.	Section	QUESTION	ANSWER	Status
A.1						
A.2						
A.3						

INSERT COMPANY NAME HERE:

INSERT SUBMISSION DATE HERE:

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

INSERT COMPANY NAME HERE:

INSERT SUBMISSION DATE HERE:

TECHNICAL					
Serial Nr	IFB Book	IFB Section Ref.	QUESTION	ANSWER	Status
A.1					
A.2					
A.3					

Bidding Sheets Instructions

INTRODUCTION & IMPORTANT NOTES
All bidders are required to submit pricing details to demonstrate the Purchaser's Pricing Principles are being applied as part of their bids. All data completed in these sheets shall be complete, verifiable and factual and include the required details. Any exclusions may render your bid as non compliant thus removing yourself from the bidding process. Bidders are REQUIRED to complete all input cells that are colour coded YELLOW in each of the Schedules being bid. Any formulas provided in these bidding sheets are provided only to assist the bidder. Any changes in formula can be made at the bidder's discretions, as long as the detailed costs are clear, traceable, and accurate as required. Ultimately the bidder is responsible for ALL values, formulas and calculations with the bidding sheets that are submitted to the Agency. Formulas should NOT be altered by the bidder. They are put in place for evaluation purposes as the ensuing contracts will be for firm fixed unit prices. To assist the Agency in evaluating the bids, we have included estimates for orders, quantities and spreads. These values will be used to evaluate the unit prices and percentages bid by each bidder and determine the winner of the competition for each Schedule. These estimates are notional only, and no rights can be derived from them. Note that each Schedule should be bid in a single currency. Bidders can bid a different currency for each schedule if they so desire. However, currencies should either be the bidder's home currency or that of the Agency, the Euro. The 3 questions inserted with Amendment 2 of this IFB are to be filled in using the drop-down options provided. In the event an alternative item is proposed in response to Q3, the price of the alternative shall be provided instead of the original CLIN item. Section D of each Schedule is the Task Order Volume Discount. The discount bands here are identified in Euros and will remain in Euros even if the bidder elects to bid in another currency. For evaluation purposes, all bids will be converted into Euros in accordance with the instructions found in the Invitation For Bid. Annex A of the Invitation for Bid includes additional instructions related to the bidding sheets.

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Book II - Part I - Schedule of Supplies and Services																									
SCHEDULE B - STORAGE EQUIPMENT											Notional Quantities for Evaluation Purposes Only														
CLIN	Applicable Product - Agency Baseline	Q1: Is your company able to deliver the Agency Baseline Product? Select 'Yes', or 'No' from the drop-down menu below.	Q2: If no to Q1, select reason why from the drop down-menu below.	Q3: If no to Q1, provide the next upgraded version that meets the Agency Baseline requirements and is technically compliant.		SOW Reference	****Unit Price					Delivery Lead Time (After Receipt of Order)	Quantity of Orders					Quantity Per Order					Total Quantity	Evaluated Price	
							Currency																		
							Price Band	QTY 1-5	QTY 6-19	QTY 20-49	QTY 50-99	QTY 100+		QTY 1-5	QTY 6-19	QTY 20-49	QTY 50-99	QTY 100+	QTY 1-5	QTY 6-19	QTY 20-49	QTY 50-99	QTY 100+		
	SAN (Storage Area Network) Equipment						B.1																		-
B.1	Entry-Midrange SAN (Nimble)						B.1.1																		
B.1.1	Nimble AF40_ 23TB Starter						B.1.1						1	-	-	-	-	-	1	-	-	-	-	1	-
B.1.2	Nimble AF40_ 46TB Starter						B.1.2						1	-	-	-	-	-	1	-	-	-	-	1	-
B.2	Midrange Unified Storage (SAN&NAS) (DELL-EMC Unity All-Flash)						B.2																		
B.2.1	Unity XT680F All-Flash (3.84TB SSD) – 50TB RAW						B.2.1						1	-	-	-	-	-	1	-	-	-	-	1	-
B.2.2	Unity XT680F All-Flash (3.84TB SSD) – 50TB RAW						B.2.2						1	-	-	-	-	-	1	-	-	-	-	1	-
B.2.3	Unity XT480F All-Flash (3.84TB SSD)– 96TB RAW						B.2.3						1	-	-	-	-	-	1	-	-	-	-	1	-
B.2.4	Unity XT680F All-Flash (3.84TB SSD)– 96TB RAW						B.2.4						1	-	-	-	-	-	1	-	-	-	-	1	-
B.2.5	Unity XT680F All-Flash (7.68TB SSD) – 195TB RAW						B.2.5						1	-	-	-	-	-	1	-	-	-	-	1	-
B.2.6	PowerStore 3000T NVMe All-Flash (3.84TB NVme SSD)– 50TB RAW						B.2.6						1	-	-	-	-	-	1	-	-	-	-	1	-
B.2.7	PowerStore 3000T NVMe All-Flash (3.84TB NVme SSD)– 80TB RAW						B.2.7						1	-	-	-	-	-	1	-	-	-	-	1	-
B.2.8	PowerStore 3000T NVMe All-Flash (7.68TB NVme SSD)– 100TB RAW						B.2.8						1	-	-	-	-	-	1	-	-	-	-	1	-
B.2.9	PowerStore 3000T NVMe All-Flash (7.68TB NVme SSD)– 161TB RAW						B.2.9						1	-	-	-	-	-	1	-	-	-	-	1	-
B.2.10	PowerStore 3000T NVMe All-Flash (15.36 NVme SSD)– 200TB RAW						B.2.10						1	-	-	-	-	-	1	-	-	-	-	1	-
B.2.11	PowerStore 3000T NVMe All-Flash (15.36 NVme SSD)– 322TB RAW						B.2.11						1	-	-	-	-	-	1	-	-	-	-	1	-
B.3	Midrange SAN (HPE Primera)						B.3																		
B.3.1	Primera A630 12x2TB SSD						B.3.1						1	-	-	-	-	-	1	-	-	-	-	1	-
B.3.2	Primera A630 12x4TB SSD						B.3.2						1	-	-	-	-	-	1	-	-	-	-	1	-
B.3.3	Primera A630 12x8TB SSD						B.3.3						1	-	-	-	-	-	1	-	-	-	-	1	-
B.3.4	Primera A630 12x15TB SSD						B.3.4						1	-	-	-	-	-	1	-	-	-	-	1	-
B.3.5	Primera A650-4N 72x8TB SSD						B.3.5						1	-	-	-	-	-	1	-	-	-	-	1	-
B.3.6	Primera A650-4N 72x4TB SSD						B.3.6						1	-	-	-	-	-	1	-	-	-	-	1	-
B.3.7	Option for HPE 3PAR 8000: Disk Shelf Expansion 16 x 1.92TB SSD						B.3.7						1	-	-	-	-	-	1	-	-	-	-	1	-
B.3.8	Option for HPE 3PAR 8000: Disk Shelf Expansion 8 x 1.92TB SSD						B.3.8						1	-	-	-	-	-	1	-	-	-	-	1	-
B.4	Midrange Unified Storage (NetApp)						B.4																		
B.4.1	AFF A300 HA System P95						B.4.1						1	-	-	-	-	-	1	-	-	-	-	1	-
B.4.2	AFF A300 HA System						B.4.2						1	-	-	-	-	-	1	-	-	-	-	1	-
B.4.3	NetApp Spare parts, services and accessories (enter pricing information in Tab 2a)						B.4.3																		
B.5	Midrange&High-End Storage Dell-EMC PowerStore NVme SSD						B.5																		
B.5.1	Dell-EMC PowerStore 5000T NVMe All-Flash (3.84TB NVme SSD)– 80TB RAW						B.5.1						1	-	-	-	-	-	1	-	-	-	-	1	-
B.5.2	Dell-EMC PowerStore 5000T NVMe All-Flash (7.68TB NVme SSD)– 100TB RAW						B.5.2						1	-	-	-	-	-	1	-	-	-	-	1	-
B.5.3	Dell-EMC PowerStore 5000T NVMe All-Flash (7.68TB NVme SSD)– 160TB RAW						B.5.3						1	-	-	-	-	-	1	-	-	-	-	1	-
B.5.4	Dell-EMC PowerStore 5000T NVMe All-Flash (15.36TB NVme SSD)– 200TB RAW						B.5.4						1	-	-	-	-	-	1	-	-	-	-	1	-
B.5.5	Dell-EMC PowerStore 5000T NVMe All-Flash (15.36TB NVme SSD)– 322TB RAW						B.5.5						1	-	-	-	-	-	1	-	-	-	-	1	-
B.5.6	Dell-EMC PowerStore 7000T NVMe All-Flash (15.36TB NVme SSD)– 320TB RAW						B.5.6						1	-	-	-	-	-	1	-	-	-	-	1	-
B.6	High-End Storage –Dell-EMC PowerMax NVMe SSD						B.6																		
B.6.1	Dell-EMC PowerMax 2000 Essentials NVMe All-Flash (1.92TB NVme SSD)– 17TB RAW						B.6.1						1	-	-	-	-	-	1	-	-	-	-	1	-
B.6.2	Dell-EMC PowerMax 2000 Essentials NVMe All-Flash (1.92&3.84 TB NVme SSD)– 80TB RAW						B.6.2						1	-	-	-	-	-	1	-	-	-	-	1	-
B.6.3	Dell-EMC PowerMax 2000 Min. Pro NVMe All-Flash (1.92TB NVme SSD)– 17TB RAW						B.6.3						1	-	-	-	-	-	1	-	-	-	-	1	-
B.6.4	Dell-EMC PowerMax 2000 Pro NVMe All-Flash (1.92&3.84TB NVme SSD)– 80TB RAW						B.6.4						1	-	-	-	-	-	1	-	-	-	-	1	-
B.6.5	Dell-EMC PowerMax 8000 Essentials NVMe All-Flash (3.84TB NVme SSD)– 96TB RAW						B.6.5						1	-	-	-	-	-	1	-	-	-	-	1	-
B.6.6	Dell-EMC PowerMax 8000 Pro NVMe All-Flash (3.84TB NVme SSD) – 96TB RAW						B.6.6						1	-	-	-	-	-	1	-	-	-	-	1	-
B.7	High-End VDI Storage Dell-EMC						B.7																		
B.7.1	Dell-EMC XtremIO X2 1.92TB						B.7.1						1	-	-	-	-	-	1	-	-	-	-	1	-
B.7.2	Dell-EMC XtremIO X2 3.84TB						B.7.2						1	-	-	-	-	-	1	-	-	-	-	1	-
B.7.3	Dell-EMC XtremIO X2 3.84TB x 9						B.7.3						1	-	-	-	-	-	1	-	-	-	-	1	-
B.8	Data Protection (Backup) Storage Dell-EMC						B.8																		
B.8.1	Dell-EMC PowerProtect DD3300–4TB RAW (Logical capacity: Up to: 200TB (Up-to-50x deduplication))						B.8.1						1	-	-	-	-	-	1	-	-	-	-	1	-
B.8.2	Dell-EMC PowerProtect DD3300–16TB RAW (Logical capacity: Up to: 800TB (Up-to-50x deduplication))						B.8.2						1	-	-	-	-	-	1	-	-	-	-	1	-
B.8.3	Dell-EMC PowerProtect DD3300–32TB RAW (Logical capacity: Up to: 1.6PB (Up-to-50x deduplication))						B.8.3						1	-	-	-	-	-	1	-	-	-	-	1	-
B.8.4	Dell-EMC PowerProtect DD6900–60TB RAW (Logical capacity: Up to: 3.9PB (Up-to-65x deduplication))						B.8.4						1	-	-	-	-	-	1	-	-	-	-	1	-
B.8.5	Dell-EMC PowerProtect DD6900–120TB RAW (Logical capacity: Up to: 7.8PB (Up-to-65x deduplication))						B.8.5						1	-	-	-	-	-	1	-	-	-	-	1	-
B.8.6	Dell-EMC PowerProtect DD6900–360TB RAW (Logical capacity: Up to: 23.4PB (Up-to-65x deduplication))						B.8.6						1	-	-	-	-	-	1	-	-	-	-	1	-
B.8.7	Dell-EMC PowerProtect DD9400–480TB RAW (Logical capacity: Up to: 31.2PB (Up-to-65x deduplication))						B.8.7						1	-	-	-	-	-	1	-	-	-	-	1	-
B.8.8	Dell-EMC PowerProtect DD9900–960TB RAW (Logical capacity: Up to: 62.4PB (Up-to-65x deduplication))						B.8.8						1	-	-	-	-	-	1	-	-	-	-	1	-
B.9	Integrated/Converged Data Protection Appliance						B.9																		
B.9.1	Cohesity cluster of 4 x DL380-96TB						B.9.1						1	1	-	-	-	-	2	8	-	-	-	10	-
B.9.2	Dell-EMC Dell-EMC IDPA PowerProtect DP4400 – 8TB						B.9.2						1	1	-	-	-	-	2	8	-	-	-	10	-
B.9.3	Dell-EMC IDPA PowerProtect DP4400 – 24TB						B.9.3						1	1	-	-	-	-	2	8	-	-	-	10	-
B.9.4	Dell-EMC IDPA PowerProtect DP4400 – 48TB						B.9.4						1	1	-	-	-	-	2	8	-	-	-	10	-
B.9.5	Dell-EMC IDPA PowerProtect DP4400 – 96TB						B.9.5						1	1	-	-	-	-	2	8	-	-	-	10	-
B.9.6	Dell-EMC IDPA PowerProtect DPS800 – 96TB						B.9.6						1	1	-	-	-	-	2	8	-	-	-	10	-
B.9.7	Dell-EMC IDPA PowerProtect DPS800 – 192TB						B.9.7						1	1	-	-	-	-	2	8	-	-	-	10	-
B.9.8	Dell-EMC IDPA PowerProtect DPS800 – 288TB						B.9.8						1	1	-	-	-	-	2	8	-	-	-	10	-
B.9.9	Dell-EMC IDPA PowerProtect DP8300 – 480TB						B.9.9						1	1	-	-	-	-	2	8	-				

- The Bidder is expected to fill in all the yellow highlighted areas.
- The model will automatically calculate the evaluated prices on the right, for evaluation comparison purposes only.
- The Total Evaluated Price will consist of the amounts in columns $W218+W227+W230+W233$.
- The Bidder shall provide its prices based on equipment unit prices without PHS&T, as that is separately provided in row 247.

Book II - Part I - Schedule of Supplies and Services													
SCHEDULE B - STORAGE EQUIPMENT													
CLIN	Description	Applicable Product - Agency Baseline	Q1: Is your company able to deliver the Agency Baseline Product? Select 'Yes', or 'No' from the drop-down menu below.	Q2: If no to Q1, select reason why from the drop down-menu below.	Q3: If no to Q1, provide the next upgraded version that meets the Agency Baseline requirements and is technically compliant.		SOW Reference	****Unit Price					Delivery Lead Time (After Receipt of Order)
B.4.3	NetApp Spare parts, services and accessories						Currency						
							Price Band	QTY 1-5	QTY 6-19	QTY 20-49	QTY 50-99	QTY 100+	
B.4.3.1	AFF-A220-113-C	AFF A220,12X30.6TB SSD,-C					B.4.3.1						
B.4.3.2	AFF-A220-114-C	AFF A220,24X30.6TB SSD,-C					B.4.3.2						
B.4.3.3	AFF-A220A-UG-001	AFF A220 HA System,UG,Flash Bundle,CNA					B.4.3.3						
B.4.3.4	AFF-A220A-UG-002	AFF A220 HA System,UG,Flash Bundle,RJ45					B.4.3.4						
B.4.3.5	CS-G1-ADVISOR-UPGRADE	SupportEdge Advisor Upgrade					B.4.3.5						
B.4.3.6	CS-G1-EXPERT-UPGRADE	SupportEdge Expert Upgrade					B.4.3.6						
B.4.3.7	CS-G1-PARTNER-UPGRADE-P-R	SupportEdge PartnerSelect Upgrade					B.4.3.7						
B.4.3.8	CS-NRD-REINSTATEMENT	Reinstatement fee, Non-Return Drive Service					B.4.3.8						
B.4.3.9	CS-SYSTEM-SUPPORT-REINST	Reinstatement fee for lapsed Support					B.4.3.9						
B.4.3.10	DS212C-07-16-12B-2P-C	Disk Shelf,12G,12x16TB,7.2K,2P,-C					B.4.3.10						
B.4.3.11	DS212C-07-16-12B-2P-CQ	Disk Shelf,12G,12x16TB,7.2K,2P,CQ					B.4.3.11						
B.4.3.12	DS212C-07-16-12B-N-C	Disk Shelf,12G,12x16TB,7.2K,-C					B.4.3.12						
B.4.3.13	DS212C-07-16-12B-N-CQ	Disk Shelf,12G,12x16TB,7.2K,CQ					B.4.3.13						
B.4.3.14	DS212C-07-16-12B-QS	Disk Shelf,12G,12x16TB,7.2K,-QS					B.4.3.14						
B.4.3.15	DS212C-07-16-12B-QS-N	Disk Shelf,12G,12x16TB,7.2K,-QS					B.4.3.15						
B.4.3.16	DS212C-07-16-12B-SK	Disk Shelf,12G,12x16TB,7.2K,-SK					B.4.3.16						
B.4.3.17	DS460C-07-16.0-30B-2P-C	Disk Shelf,12G,30x16TB,7.2K,2P,-C					B.4.3.17						
B.4.3.18	DS460C-07-16.0-30B-2P-CQ	Disk Shelf,12G,30x16TB,7.2K,2P,CQ					B.4.3.18						
B.4.3.19	DS460C-07-16.0-30B-N-C	Disk Shelf,12G,30x16TB,7.2K,-C					B.4.3.19						
B.4.3.20	DS460C-07-16.0-30B-N-CQ	Disk Shelf,12G,30x16TB,7.2K,CQ					B.4.3.20						
B.4.3.21	DS460C-07-16.0-30B-QS	Disk Shelf,12G,30x16TB,7.2K,-QS					B.4.3.21						
B.4.3.22	DS460C-07-16.0-30B-QS-N	Disk Shelf,12G,30x16TB,7.2K,-QS					B.4.3.22						
B.4.3.23	DS460C-07-16.0-30B-SK	Disk Shelf,12G,30x16TB,7.2K,-SK					B.4.3.23						
B.4.3.24	DS460C-07-16.0-60B-2P-C	Disk Shelf,12G,60x16TB,7.2K,2P,-C					B.4.3.24						
B.4.3.25	DS460C-07-16.0-60B-2P-CQ	Disk Shelf,12G,60x16TB,7.2K,2P,CQ					B.4.3.25						
B.4.3.26	DS460C-07-16.0-60B-N-C	Disk Shelf,12G,60x16TB,7.2K,-C					B.4.3.26						
B.4.3.27	DS460C-07-16.0-60B-N-CQ	Disk Shelf,12G,60x16TB,7.2K,CQ					B.4.3.27						
B.4.3.28	DS460C-07-16.0-60B-QS	Disk Shelf,12G,60x16TB,7.2K,-QS					B.4.3.28						
B.4.3.29	DS460C-07-16.0-60B-QS-N	Disk Shelf,12G,60x16TB,7.2K,-QS					B.4.3.29						
B.4.3.30	DS460C-07-16.0-60B-SK	Disk Shelf,12G,60x16TB,7.2K,-SK					B.4.3.30						
B.4.3.31	E-X4129C	SSD,15.3TB,12Gb,Non-FDE,DE224C					B.4.3.31						
B.4.3.32	E-X4129C-0E-C	SSD,15.3TB,12Gb,Non-FDE,DE224C,0E,-C					B.4.3.32						
B.4.3.33	E-X4129C-12-QS	SSD,12x15.3TB,12Gb,Non-FDE,DE224C,QS					B.4.3.33						
B.4.3.34	E-X4129C-AD-C	SSD,15.3TB,12Gb,Non-FDE,DE224C,Add,-C					B.4.3.34						
B.4.3.35	E-X4133B	SSD,7.6TB,12Gb,Non-FDE,DE224C					B.4.3.35						
B.4.3.36	E-X4133B-0E-C	SSD,7.6TB,12Gb,Non-FDE,DE224C,0E,-C					B.4.3.36						
B.4.3.37	E-X4133B-12-QS	SSD,12x7.6TB,12Gb,Non-FDE,DE224C,QS					B.4.3.37						
B.4.3.38	E-X4133B-AD-C	SSD,7.6TB,12Gb,Non-FDE,DE224C,Add,-C					B.4.3.38						
B.4.3.39	E-X4142B	SSD,15.3TB,12Gb,FDE,DE224C					B.4.3.39						
B.4.3.40	E-X4142B-0E-C	SSD,15.3TB,12Gb,FDE,DE224C,0E,-C					B.4.3.40						
B.4.3.41	E-X4142B-12-QS	SSD,12x15.3TB,12Gb,FDE,DE224C,QS					B.4.3.41						
B.4.3.42	E-X4142B-AD-C	SSD,15.3TB,12Gb,FDE,DE224C,Add,-C					B.4.3.42						
B.4.3.43	E-X4144A	DSK DRV,16TB,7.2k,12Gb,Non-FDE,DE460C					B.4.3.43						
B.4.3.44	E-X4144A-10-QS	DSK DRV,10x16TB,7.2k,12Gb,Non-FDE,DE460C,QS					B.4.3.44						
B.4.3.45	E-X4144A-AD-C	DSK DRV,16TB,7.2k,12Gb,Non-FDE,DE460C,Add,-C					B.4.3.45						
B.4.3.46	E-X4144A-C	DSK DRV,16TB,7.2k,12Gb,Non-FDE,DE460C,-C					B.4.3.46						
B.4.3.47	E-X4145A	DSK DRV,16TB,7.2k,12Gb,Non-FDE,DE212C					B.4.3.47						
B.4.3.48	E-X4145A-12-QS	DSK DRV,12x16TB,7.2k,12Gb,Non-FDE,DE212C,QS					B.4.3.48						
B.4.3.49	E-X4145A-AD-C	DSK DRV,16TB,7.2k,12Gb,Non-FDE,DE212C,Add,-C					B.4.3.49						
B.4.3.50	E-X4145A-C	DSK DRV,16TB,7.2k,12Gb,Non-FDE,DE212C,-C					B.4.3.50						
B.4.3.51	FAS2720-115-C	FAS2720,12x16TB,7.2K,-C					B.4.3.51						
B.4.3.52	FAS2720-116-C	FAS2720,4x960GB SSD,8x16TB,Mixed,-C					B.4.3.52						
B.4.3.53	FAS2720-117-C	FAS2720,4x3.8TB SSD,8x16TB,Mixed,-C					B.4.3.53						
B.4.3.54	H600-NIC-1/10GbE-I	NIC,2-Port,1/10GbE,RJ45,H600C,Intel					B.4.3.54						
B.4.3.55	H600-NIC-10/25GbE-M	NIC,2-Port,10/25GbE,SFP28,H600C,Mellanox					B.4.3.55						
B.4.3.56	FAS2720A-EXP-100	FAS2720,HA,12X4TB,Base Bundle,NVE RJ45					B.4.3.56						
B.4.3.57	FAS2720A-EXP-101	FAS2720,HA,12X4TB,Premium Bundle,NVE RJ45					B.4.3.57						
B.4.3.58	FAS2720A-EXP-104	FAS2720,HA,12X4TB,Base Bundle,NVE CNA					B.4.3.58						
B.4.3.59	FAS2720A-EXP-105	FAS2720,HA,12X4TB,Premium Bundle,NVE CNA					B.4.3.59						
B.4.3.60	SUBS-MAXRECVRY-VCPU-12MO	Subscription,MAXRecovery,vCPU,12M					B.4.3.60						
B.4.3.61	SUBS-MAXRECVRY-VCPU-36MO	Subscription,MAXRecovery,vCPU,36M					B.4.3.61						
B.4.3.62	AFF-A220-100-C	AFF A220,12X960GB SSD,-C					B.4.3.62						
B.4.3.63	AFF-A220-101-C	AFF A220,24X960GB SSD,-C					B.4.3.63						
B.4.3.64	AFF-A220-102-C	AFF A220,12X3.8TB SSD,-C					B.4.3.64						
B.4.3.65	AFF-A220-103-C	AFF A220,24X3.8TB SSD,-C					B.4.3.65						
B.4.3.66	AFF-A220-104-C	AFF A220,12X3.8TB NSE SSD,-C					B.4.3.66						
B.4.3.67	AFF-A220-105-C	AFF A220,24X3.8TB NSE SSD,-C					B.4.3.67						
B.4.3.68	AFF-A220-106-C	AFF A220,12X7.6TB SSD,-C					B.4.3.68						
B.4.3.69	AFF-A220-107-C	AFF A220,24X7.6TB SSD,-C					B.4.3.69						
B.4.3.70	AFF-A220-108-C	AFF A220,12X15.3TB SSD,-C					B.4.3.70						
B.4.3.71	AFF-A220-109-C	AFF A220,24X15.3TB SSD,-C					B.4.3.71						
B.4.3.72	AFF-A220-111-C	AFF A220,12X960GB SSD,NSE,-C					B.4.3.72						
B.4.3.73	AFF-A220-112-C	AFF A220,24X960GB SSD,NSE,-C					B.4.3.73						

B.4.3.74	AFF-A220-113-C	AFF A220,12X30.6TB SSD,-C					B.4.3.74						
B.4.3.75	AFF-A220-114-C	AFF A220,24X30.6TB SSD,-C					B.4.3.75						
B.4.3.76	AFF-A220A-001	AFF A220 HA System, BASE Bundle,CNA					B.4.3.76						
B.4.3.77	AFF-A220A-001-SC	AFF A220A Base Bundle					B.4.3.77						
B.4.3.78	AFF-A220A-002	AFF A220 HA System,Flash Bundle,CNA					B.4.3.78						
B.4.3.79	AFF-A220A-002-SC	AFF A220A Flash Bundle					B.4.3.79						
B.4.3.80	AFF-A220A-003	AFF A220 HA System, BASE Bundle,RJ45					B.4.3.80						
B.4.3.81	AFF-A220A-004	AFF A220 HA System,Flash Bundle,RJ45					B.4.3.81						
B.4.3.82	AFF-A220A-005	AFF A220 HA System,All SAN Array Bundle,CNA					B.4.3.82						
B.4.3.83	AFF-A220A-EXP-100	AFF A220,HA,12X960GB SSD,Base Bundle,NVE					B.4.3.83						
B.4.3.84	AFF-A220A-EXP-101	AFF A220,HA,12X960GB SSD,Flash Bundle,NVE					B.4.3.84						
B.4.3.85	AFF-A220A-EXP-102	AFF A220,HA,24X960GB SSD,Base Bundle,NVE					B.4.3.85						
B.4.3.86	AFF-A220A-EXP-103	AFF A220,HA,24X960GB SSD,Flash Bundle,NVE					B.4.3.86						
B.4.3.87	AFF-A220A-EXP-104	AFF A220,HA,12X960GB SSD,Base Bundle,Non-NVE					B.4.3.87						
B.4.3.88	AFF-A220A-EXP-105	AFF A220,HA,12X960GB SSD,Flash Bundle,Non-NVE					B.4.3.88						
B.4.3.89	AFF-A220A-EXP-106	AFF A220,HA,24X960GB SSD,Base Bundle,Non-NVE					B.4.3.89						
B.4.3.90	AFF-A220A-EXP-107	AFF A220,HA,24X960GB SSD,Flash Bundle,Non-NVE					B.4.3.90						
B.4.3.91	AFF-A220A-EXP-108	AFF A220,HA,12X3.8TB SSD,Base Bundle,NVE					B.4.3.91						
B.4.3.92	AFF-A220A-EXP-109	AFF A220,HA,12X3.8TB SSD,Flash Bundle,NVE					B.4.3.92						
B.4.3.93	AFF-A220A-EXP-110	AFF A220,HA,24X3.8TB SSD,Base Bundle,NVE					B.4.3.93						
B.4.3.94	AFF-A220A-EXP-111	AFF A220,HA,24X3.8TB SSD,Flash Bundle,NVE					B.4.3.94						
B.4.3.95	AFF-A220A-PACK-114	AFF-A220,HA,12X3.8TB SSD,Flash Bundle,Non-NVE					B.4.3.95						
B.4.3.96	AFF-A220A-PACK-115	AFF-A220,HA,24X3.8TB SSD,Flash Bundle,Non-NVE					B.4.3.96						
B.4.3.97	AFF-A220A-UG-001	AFF A220 HA System,UG,Flash Bundle,CNA					B.4.3.97						
B.4.3.98	AFF-A220A-UG-002	AFF A220 HA System,UG,Flash Bundle,RJ45					B.4.3.98						
B.4.3.99	AFF-A300A-001	AFF A300 HA System,FlashBundle					B.4.3.99						
B.4.3.100	AFF-A300A-001-SC	AFF A300A Premium Bundle					B.4.3.100						
B.4.3.101	AFF-A300A-002	AFF A300A Base Bundle					B.4.3.101						
B.4.3.102	AFF-A320A-001	AFF A320 HA System,BaseBundle					B.4.3.102						
B.4.3.103	AFF-A320A-002	AFF A320 HA System,FlashBundle					B.4.3.103						
B.4.3.104	AFF-A400A-003	AFF-A400 HA System,Ethernet Bundle					B.4.3.104						
B.4.3.105	AFF-A400A-004	AFF-A400 HA System,FC Bundle					B.4.3.105						
B.4.3.106	AFF-A400A-005	AFF-A400 HA System,ASA,Ethernet Bundle					B.4.3.106						
B.4.3.107	AFF-A400A-006	AFF-A400 HA System,ASA,FC Bundle					B.4.3.107						
B.4.3.108	AFF-A700A-001	AFF A700 HA System,Base Bundle					B.4.3.108						
B.4.3.109	AFF-A700A-002	AFF A700 HA System,FlashBundle					B.4.3.109						
B.4.3.110	AFF-A700A-003	AFF A700 HA System,All SAN Array Bundle					B.4.3.110						
B.4.3.111	AFF-A700A-200-C	AFF A700,SA,CTL,Encl,AC PS,40G,SAS,-C					B.4.3.111						
B.4.3.112	AFF-A700A-201-C	AFF A700,HA,CTL,Encl,AC PS,40G,SAS,-C					B.4.3.112						
B.4.3.113	AFF-A700S-001	AFF A700s System,Base Bundle					B.4.3.113						
B.4.3.114	AFF-A700S-002	AFF A700s System,FlashBundle					B.4.3.114						
B.4.3.115	AFF-A700S-100-C	AFF A700s,HA,24x960GB,40GbE,SAS,-C					B.4.3.115						
B.4.3.116	AFF-A700S-101-C	AFF A700s,HA,24x960GB,40GbE,32FC,SAS,-C					B.4.3.116						
B.4.3.117	AFF-A700S-102-C	AFF A700s,HA,12x3.8TB,40GbE,SAS,-C					B.4.3.117						
B.4.3.118	AFF-A700S-103-C	AFF A700s,HA,12x3.8TB,40GbE,32FC,SAS,-C					B.4.3.118						
B.4.3.119	AFF-A700S-104-C	AFF A700s,HA,24x3.8TB,40GbE,SAS,-C					B.4.3.119						
B.4.3.120	AFF-A700S-105-C	AFF A700s,HA,24x3.8TB,40GbE,32FC,SAS,-C					B.4.3.120						
B.4.3.121	AFF-A700S-106-C	AFF A700s,HA,12x3.8TB,NSE,40GbE,SAS,-C					B.4.3.121						
B.4.3.122	AFF-A700S-107-C	AFF A700s,HA,12x3.8TB,NSE,40GbE,32FC,SAS,-C					B.4.3.122						
B.4.3.123	AFF-A700S-108-C	AFF A700s,HA,24x3.8TB,NSE,40GbE,SAS,-C					B.4.3.123						
B.4.3.124	AFF-A700S-109-C	AFF A700s,HA,24x3.8TB,NSE,40GbE,32FC,SAS,-C					B.4.3.124						
B.4.3.125	AFF-A700S-110-C	AFF A700s,HA,12x15.3TB,40GbE,SAS,-C					B.4.3.125						
B.4.3.126	AFF-A700S-111-C	AFF A700s,HA,12x15.3TB,40GbE,32FC,SAS,-C					B.4.3.126						
B.4.3.127	AFF-A700S-112-C	AFF A700s,HA,24x15.3TB,40GbE,SAS,-C					B.4.3.127						
B.4.3.128	AFF-A700S-113-C	AFF A700s,HA,24x15.3TB,40GbE,32FC,SAS,-C					B.4.3.128						
B.4.3.129	AFF-A700S-114-C	AFF A700s,HA,24x960GB,40GbE,16FC,SAS,-C					B.4.3.129						
B.4.3.130	AFF-A700S-115-C	AFF A700s,HA,12x3.8TB,40GbE,16FC,SAS,-C					B.4.3.130						
B.4.3.131	AFF-A700S-116-C	AFF A700s,HA,24x3.8TB,40GbE,16FC,SAS,-C					B.4.3.131						
B.4.3.132	AFF-A700S-117-C	AFF A700s,HA,12x3.8TB,NSE,40GbE,16FC,SAS,-C					B.4.3.132						
B.4.3.133	AFF-A700S-118-C	AFF A700s,HA,24x3.8TB,NSE,40GbE,16FC,SAS,-C					B.4.3.133						
B.4.3.134	AFF-A700S-119-C	AFF A700s,HA,12x15.3TB,40GbE,16FC,SAS,-C					B.4.3.134						
B.4.3.135	AFF-A700S-120-C	AFF A700s,HA,24x15.3TB,40GbE,16FC,SAS,-C					B.4.3.135						
B.4.3.136	AFF-A700S-121-C	AFF A700s,HA,12x7.6TB,40GbE,SAS,-C					B.4.3.136						
B.4.3.137	AFF-A700S-122-C	AFF A700s,HA,24x7.6TB,40GbE,SAS,-C					B.4.3.137						
B.4.3.138	AFF-A700S-123-C	AFF A700s,HA,12x7.6TB,40GbE,16FC,SAS,-C					B.4.3.138						
B.4.3.139	AFF-A700S-124-C	AFF A700s,HA,24x7.6TB,40GbE,16FC,SAS,-C					B.4.3.139						
B.4.3.140	AFF-A700S-125-C	AFF A700s,HA,12x7.6TB,40GbE,32FC,SAS,-C					B.4.3.140						
B.4.3.141	AFF-A700S-126-C	AFF A700s,HA,24x7.6TB,40GbE,32FC,SAS,-C					B.4.3.141						
B.4.3.142	AFF-A700S-127-C	AFF A700s,HA,12x30.6TB,40GbE,SAS,-C					B.4.3.142						
B.4.3.143	AFF-A700S-128-C	AFF A700s,HA,24x30.6TB,40GbE,SAS,-C					B.4.3.143						
B.4.3.144	AFF-A700S-129-C	AFF A700s,HA,12x30.6TB,40GbE,32FC,SAS,-C					B.4.3.144						
B.4.3.145	AFF-A700S-130-C	AFF A700s,HA,24x30.6TB,40GbE,32FC,SAS,-C					B.4.3.145						
B.4.3.146	AFF-A700S-131-C	AFF A700s,HA,12x30.6TB,40GbE,16FC,SAS,-C					B.4.3.146						
B.4.3.147	AFF-A700S-132-C	AFF A700s,HA,24x30.6TB,40GbE,16FC,SAS,-C					B.4.3.147						
B.4.3.148	AFF-A800-100-C	AFF A800,HA,CTL,Encl,AC PS,100G,-C					B.4.3.148						
B.4.3.149	AFF-A800A-001	AFF A800 HA System, BASE Bundle					B.4.3.149						
B.4.3.150	AFF-A800A-002	AFF A800 HA System,FlashBundle					B.4.3.150						
B.4.3.151	AFF-C190A-002-SC	AFF-C190A Flash Bundle					B.4.3.151						
B.4.3.152	AFF-C190A-PACK-100	AFF C190,HA,8X960GB,Flash Bundle,NVE UTA					B.4.3.152						
B.4.3.153	AFF-C190A-PACK-101	AFF C190,HA,8X960GB,Flash Bundle,NVE RJ45					B.4.3.153						
B.4.3.154	AFF-C190A-PACK-102	AFF C190,HA,12X960GB,Flash Bundle,NVE UTA					B.4.3.154						
B.4.3.155	AFF-C190A-PACK-103	AFF C190,HA,18X960GB,Flash Bundle,NVE RJ45					B.4.3.155						
B.4.3.156	AFF-C190A-PACK-104	AFF C190,HA,18X960GB,Flash Bundle,NVE UTA					B.4.3.156						
B.4.3.157	AFF-C190A-PACK-105	AFF C190,HA,18X960GB,Flash Bundle,NVE RJ45					B.4.3.157						
B.4.3.158	AFF-C190A-PACK-106	AFF C190,HA,24X960GB,Flash Bundle,NVE UTA					B.4.3.158						

- The Bidder is expected to fill in all the yellow highlighted areas.
- The model will automatically calculate the evaluated prices on the right, for evaluation comparison purposes only.
- The Total Evaluated Price will consist of the amounts in columns $W218+W227+W230+W233$.
- The Bidder shall provide its prices based on equipment unit prices without PH&ST, as that is separately provided in row 247.

Book II - Part I - Schedule of Supplies and Services												
SCHEDULE C - SERVER EQUIPMENT												
CLIN	Applicable Product - Agency Baseline	Q1: Is your company able to deliver the Agency Baseline Product? Select 'Yes', or 'No' from the drop-down menu below.	Q2: If no to Q1, select reason why from the drop down-menu below.	Q3: If no to Q1, provide the next upgraded version that meets the Agency Baseline requirements and is technically compliant.		SOW Reference	****Unit Price					Delivery Lead Time (After Receipt of Order)
						Currency						
						Price Band	QTY 1-5	QTY 6-19	QTY 20-49	QTY 50-99	QTY 100+	
C.1	HPE ProLiant DL380-DB Server-Dual Rank					C.1						
C.2	HPE ProLiant DL380 Gen10-DB Server-Quad Rank					C.2						
C.3	HPE DL380 Gen10 24SFF-VDI vSAN Server					C.3						
C.4	HPE DL380 Gen10 24SFF-GP vSAN Rackmount Server					C.4						
C.5	HPE ProLiant DL380 Gen10 8SFF-GP Rackmount Server					C.5						
C.6	HPE DL380 Gen10 24SFF-GP vSAN Rackmount Server					C.6						
C.7	HPE ProLiant DL360 Gen10 8SFF 32GB					C.7						
C.8	HPE ProLiant DL360 Gen10 8SFF 192GB					C.8						
C.9	HPE DL380 Gen10 8SFF 768GB					C.9						
C.10	HPE 42U 600mmx1200mm Rack Components					C.10						
C.11	HPE Synergy 480 Gen10 768GB					C.11						
C.12	HPE Synergy 480 Gen10 768GB noFC					C.12						
C.13	HPE Synergy 12000 1st frame					C.13						
C.14	HPE Synergy 12000 1st frame noFC					C.14						
C.15	HPE Synergy 12000 add frame					C.15						
C.16	HPE Synergy 12000 add frame noFC					C.16						
C.17	HPE Synergy 480 Gen10 768GB noFC					C.17						
C.18	HPE DL380 Gen10 24SFF 768GB					C.18						
C.19	Dell-EMC PowerEdge MX7000 Blade Enclosure					C.19						
C.20	Dell-EMC PowerEdge R540 Server Standard					C.20						
C.21	Dell-EMC PowerEdge C6400					C.21						
C.22	Dell-EMC PowerEdge C6525- Full Configuration					C.22						
C.23	Dell-EMC PowerEdge C4140- Full Configuration					C.23						
C.24	Dell-EMC PowerEdge C6400- Full Configuration					C.24						
C.25	Dell-EMC PowerEdge C6420- Full Configuration					C.25						
C.26	Dell-EMC PowerEdge R940- Full Configuration					C.26						
C.27	Dell-EMC PowerEdge R740 Server Optimal					C.27						
C.28	Dell-EMC PowerEdge R740 Server Basic - [PER7400M]					C.28						
C.29	Dell-EMC PowerEdge R640 Server Optimal - [PER6404M]					C.29						
C.30	Dell-EMC PowerEdge R740XD Server Optimal - [PER740xd01M]					C.30						
C.31	Dell-EMC PowerEdge R640 Server Basic - [PER6400M]					C.31						
C.32	Dell-EMC PowerEdge R840-Full Configuration - [EMEA_R840_VI_VP]					C.32						
C.33	Dell-EMC PowerEdge R740 Server Standard - [PER7402a]					C.33						
C.34	Dell-EMC PowerEdge R740 Server Performance - [PER7400a]					C.34						
C.35	Dell-EMC PowerEdge R440 Server Standard - [PER4402a]					C.35						
C.36	Dell-EMC PowerEdge R740XD2 Server Standard - [PER740XD2M]					C.36						

Notional Quantities for Evaluation Purposes Only											
Quantity of Orders					Quantity Per Order					Total Quantity	Annual Evaluated Price
QTY 1-5	QTY 6-19	QTY 20-49	QTY 50-99	QTY 100+	QTY 1-5	QTY 6-19	QTY 20-49	QTY 50-99	QTY 100+		
-	-	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	1	-	-	-	-	1	-
1	1	1	-	-	1	10	20	-	-	30	-
1	1	-	-	-	1	5	-	-	-	5	-
1	1	-	-	-	1	5	-	-	-	5	-
1	1	-	-	-	1	5	-	-	-	5	-
-	-	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	1	-	-	-	-	1	-
1	1	1	-	-	1	10	20	-	-	30	-
1	1	-	-	-	1	5	-	-	-	5	-
1	1	-	-	-	1	5	-	-	-	5	-
1	1	-	-	-	1	5	-	-	-	5	-
-	-	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	1	-	-	-	-	1	-
1	1	1	-	-	1	10	20	-	-	30	-
1	1	-	-	-	1	5	-	-	-	5	-
1	1	-	-	-	1	5	-	-	-	5	-
1	1	-	-	-	1	5	-	-	-	5	-
-	-	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	1	-	-	-	-	1	-
1	1	1	-	-	1	10	20	-	-	30	-
1	1	-	-	-	1	5	-	-	-	5	-
1	1	-	-	-	1	5	-	-	-	5	-
1	1	-	-	-	1	5	-	-	-	5	-
-	-	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	1	-	-	-	-	1	-
1	1	1	-	-	1	10	20	-	-	30	-
1	1	-	-	-	1	5	-	-	-	5	-
1	1	-	-	-	1	5	-	-	-	5	-
1	1	-	-	-	1	5	-	-	-	5	-

[illegible]

D	DISCOUNT										
	Task Order Volume Discount				Task Order Discount Band in Euros	From To	- 50,000	50,001 100,000	100,001 500,000	500,001 1,000,001	1,000,001 Above
D.1	Volume discount to be applied to each task order as part of this contract.										
S	SERVICES										
	Engineering Services						-				
S.1	Installation & Commissioning Professional Services (On-Site)*				3.10	Daily Rate					
	Integrated Logistics Support					Shipment Cost To:	No. America	Turkey	Europe		
S.2	PHS&T to NATO/ Customer Sites**				3					Percentage over the CLIN price	
	Warranty Extensions					Fixed Percentage to be applied to					
S.3	Warranty Extension*** (from 1 year to 3-years)				3.11					Percentage over the CLIN price	

*	Optional installation services will be added to the TO only if requested. The price in CLIN S.1 shall include all installation activities including travel, material, per diem and other costs.
**	Shipment costs shall be calculated based on the percentage provided in CLIN S.2 and the price of the order, and can vary by region.
***	Unit price of each product shall include the standard warranty applicable for that product. This standard warranty shall be one year for all products, except for those products that are specified as 3-year or 5-year warranty in their respective schedule specification. For those products with 3-years or 5-years warranty, the unit price shall include the specified warranty. Warranty extension price shall be calculated based on the percentage provided in CLIN S.3 and the unit price for the specific item. When this CLIN is added in a TO, the CLIN for the specific item should be mentioned in parentheses. This warranty extension CLIN will only be applicable for items with one year warranty. Items that are specified as 3-years or 5-years warranty in their respective schedules will not have a warranty extension CLIN.
****	Each Unit Price shall have the following factored in: (a) G&A, (b) Administrative Cost per paragraphs 4.2.1 and 4.2.2 of the SOW, and (c) Profit

Schedule C Instructions:

- The Bidder is expected to fill in all the yellow highlighted areas.
- The model will automatically calculate the evaluated prices on the right, for evaluation comparison purposes only.
- The Total Evaluated Price will consist of the amounts in columns W103, W112, W115, and W118.
- The Bidder shall provide its prices based on equipment unit prices without PHS&T, as that is separately provided in row 115.

Quantity of Order per Discount Band in Euros					Average Value of Task Order Per Band in Euros						
-	50,001	100,001	500,001	1,000,001	-	50,001	100,001	500,001	1,000,001		
50,000	100,000	500,000	1,000,000	Above	50,000	100,000	500,000	1,000,000	Above		
8	1	3	1	1	15,000	75,000	150,000	600,000	1,150,000		-
					Subtotal Evaluated Hardware Price after Task Order Discount						-
					Assumptions for Delivery and Warranty						
					Delivered to:			Include			
					No. America	Turkey	Europe	Warranty			
					20%	5%	75%	5%			
					-	-	-	-			
Engineering Services										Hours	
Installation & Commissioning Professional Services (On-Site)*										100	-
Integrated Logistics Support					Shipment Cost To:	No. America	Turkey	Europe			
PHS&T to NATO/ Customer Sites**						-	-	-			-
Warranty Extensions											
Warranty Extension*** (from 1 year to 3-years)					Warranty Extension						-
										Total Evaluated Price	-

*	Optional installation services will be added to the TO only if requested. The price in CLIN 5.1 shall include all installation activities including travel, material, per diem and other costs.
**	Shipment costs shall be calculated based on the percentage provided in CLIN 5.2 and the price of the order, and can vary by region.
***	Unit price of each product shall include the standard warranty applicable for that product. This standard warranty shall be one year for all products, except for those products that are specified as 3-year or 5-year warranty in the Cisco GPL. For those products with 3-years or 5-years warranty, the unit price shall include the specified warranty. Warranty extension price shall be calculated based on the percentage provided in CLIN 5.3 and the unit price for the specific item. When this CLIN is added in a TO, the CLIN for the specific item should be mentioned in parentheses.

Schedule D Instructions:

- The Bidder is expected to fill in all the yellow highlighted areas.
- The model will automatically calculate the evaluated prices on the right, for evaluation comparison purposes only.
- The Total Evaluated Price will consist of the amounts in columns U14, U23, U26, and U29.
- The Bidder shall provide its prices based on equipment unit prices without PHS&T, as that is separately provided in row 26.

Engineering Services							Hours	
Installation & Commissioning Professional Services (On-Site)*							100	-
Shipment Cost To:			Europe	No. America	Turkey			
PHS&T to NATO/ Customer Sites**			-	-	-			-
Warranty Extensions								
Warranty Extension*** (from 1 year to 3-years)			Warranty Extension					-
							Total Evaluated Price	5,500,000

Special Service Fee for Non-Warranty Related Issues

[Bidder to insert information]

NATO Communications and Information Agency



IFB-CO-115125-e-FIT

- Provision of -

**COTS IT
HARDWARE AND ASSOCIATED SUPPORT**

Contract Special Provisions

Book II - Part II

AMENDMENT 3

Table of Content

1.	ORDER OF PRECEDENCE.....	3
2.	SCOPE OF WORK	3
3.	CONTRACT TYPE.....	3
4.	PURCHASER OBLIGATIONS AND LIMITATIONS.....	4
5.	PRICE.....	4
6.	TASK ORDERS AND ORDERING	5
7.	COMPREHENSION OF CONTRACT AND SPECIFICATIONS	5
8.	KEY PERFORMANCE INDICATORS (KPIs) AND TARGETS	6
9.	TERMS OF DELIVERY.....	7
10.	INVOICES AND PAYMENT TERMS	7
11.	ACCEPTANCE PROCEDURES.....	7
12.	OBSOLESCENCE REPLACEMENT.....	8
13.	WARRANTY & SUPPORT	8
14.	CONTRACT ADMINISTRATION	8
15.	SUB CONTRACTS	9
16.	CHANGES	9
17.	OPTIONS.....	10
18.	LIQUIDATED DAMAGES	11
19.	TERMINATION FOR DEFAULT	12
20.	FORCE MAJEURE	12
21.	ANNEX A: SAMPLE TASK ORDER	14

PART II - CONTRACT SPECIAL PROVISIONS

1. Order of Precedence

- 1.1. In the event of any inconsistency in language, terms or conditions of the various parts of this Contract, precedence will be given in the following order:
- 1.1.1. The Contract Signature Page (Basic plus any Amendment)
 - 1.1.2. Issued Task Order(s);
 - 1.1.3. Part I – The Schedule of Supplies and Services;
 - 1.1.4. Part II – The Contract Special Provisions;
 - 1.1.5. Part III – The Contract General Provisions;
 - 1.1.6. Part IV – The Statement of Work and its Annexes;
 - 1.1.7. The Contractor(s)' proposal (Technical Proposal and Price Quotation) dated *[to be inserted at contract award]* and any clarifications thereto, incorporated herein by reference.

2. Scope of Work

- 2.1. The purpose of this Contract is to create a Framework to enable frequent and swift transactions of specified hardware and associated support from a Product Catalogue from which the Purchaser may order quantities for delivery to different NATO sites and/or NATO Nations.
- 2.2. In order to fulfil that purpose the Contractor shall deliver, in accordance with the contract requirements, and against the prices specified in the Contract Schedule of Supplies and Services (SSS), the items or services identified in Task Orders (TOs, or Orders) issued from time to time by the Purchaser, in the manner and at the time and location specified in the Order.
- 2.3. The specifications of the hardware equipment to be delivered under this contract are laid out in Annex A to the Statement of Work (SOW). The detailed requirements of associated warranty and support are provided in Section 3 of the SOW.

3. Contract Type

- 3.1. This Framework Contract is an Indefinite Delivery, Indefinite Quantity (IDIQ) type contract for COTS IT procurement with fixed prices for hardware equipment and associated support is duly named e-FIT. The Contract has no intrinsic monetary value. The Agency will place TOs against this Framework Contract when requirements are identified and funding is available. The Contract includes five (5) price-bands with prices linked to different quantity ranges per Contract Line Item Number (CLIN), as elaborated in the "Price" Clause of these Special Provisions.
- 3.2. Each Task Order will have a monetary obligation and a detailed CLIN list with corresponding Statement of Work specifications for the Contractor to perform that is within the general scope of this Contract. This Contract will come into effect

with the placing of the first Order which will constitute the initial obligation.

- 3.3. The Purchaser regards this Contract to be a 'preferred vehicle' for obtaining the equipment and services specified in the Statement of Work, where the Purchaser is charged by NATO to satisfy the requirement. The Purchaser may decide to solicit alternative sources if that is deemed more favourable to the Purchaser.
- 3.4. The Purchaser assumes no liability for costs incurred by the Contractor in excess of the stated Firm Fixed Task Order Prices.

4. Purchaser Obligations and Limitations

- 4.1. The Purchaser's sole obligation under this contract is limited to the issuance of the initial Order activating the Contract, of which there is no minimum value threshold.
- 4.2. This IDIQ contract is subject to both time and value limitations. The Purchaser is not to issue any order beyond the period of performance of this IDIQ contract as per 4.3 below, or the Maximum Total Value of 6,000,000 EUR, whichever comes first.
- 4.3. The Contract is available for the placement of TOs against the SSS for three (3) years from Effective Date of Contract (EDC).
- 4.4. The Period of Performance of the Contract may be extended by the exercise of options in accordance with the "Options" Clause of these Special Provisions.

5. Price

- 5.1. The unit prices in the SSS are valid for any quantity of hardware and associated support ordered under the Contract and the relevant TOs.
- 5.2. The unit prices in the SSS are valid for the duration of the Contract, including option periods detailed in the "Options" Clause of these Special Provisions.
- 5.3. The unit prices per CLIN are subject to price-bands linked to different quantity ranges. The applicable range for every CLIN is determined by the quantity of that CLIN required per TO. The ranges and their associated prices are listed in the SSS, with larger price bands corresponding to lower unit costs.
- 5.4. For any new or replacement items to be added to the Product Catalogue, the unit prices will be proposed by the Contractor via a Request For Change (RFC) form, following the process defined in the "Changes" Clause of these Special Provisions. Should the Purchaser decide that the proposed item(s) be included in the Contract, an equitable price adjustment will be negotiated based on fair and reasonable pricing, and the proposed item(s) shall be added to the Contract by bilateral modification as per the "Changes" Clause of these Special Provisions.
- 5.5. Additionally, unit prices for items replaced due to obsolescence are determined following the process described in the "Obsolescence Replacement" Clause of these Special Provisions.

6. Task Orders and Ordering

- 6.1.** Task Orders (TO's, or Order) will be issued in writing by the Purchaser and signed by the Purchaser's Contracting Authority. TO's are instruments to initiate Contractor activities and obligate funding to the Contract.
- 6.2.** The Purchaser will initiate the ordering process by issuing a TO detailing the following:
- 6.2.1.** Order Number;
 - 6.2.2.** Effective Date of the Order;
 - 6.2.3.** Total quantities of equipment or services required by CLIN;
 - 6.2.4.** Statement of Work reference;
 - 6.2.5.** Schedule and place of delivery and performance;
 - 6.2.6.** Shipping and transportation;
 - 6.2.7.** Total Monetary Value of the Order;
- 6.3.** For the purpose of this Contract, an obligation to deliver as per the TO is deemed to exist for the Contractor upon signature by the Purchaser. Counter-signature by the Contractor is not required for any TO under this Contract.
- 6.4.** A TO is understood to have been received within 24 hours if it is a business day, or the first day after a non-business day.
- 6.5.** Orders may be issued from time to time and there are no limitations on the number of TO's that can be issued.

7. Comprehension of Contract and Specifications

- 7.1.** The Contractor warrants that it has read, understood and agreed to each and all terms, clauses, specifications and conditions specified in the Contract and that this signature of the Contract is an acceptance, without reservations, of the said Contract terms within their normal and common meaning.
- 7.2.** The specifications and requirements in the Statement of Work set forth the performance requirements for the Contractor's proposed work under this Contract. Accordingly, notwithstanding any conflict or inconsistency which hereafter may be found between achievement of the aforesaid performance requirements and adherence to the Contractor's proposed design for the work, the Contractor hereby warrants that the work to be delivered will meet or exceed the performance requirements of the said specifications.
- 7.3.** The Contractor hereby acknowledges that it has no right to assert against the Purchaser, its officers, agents or employees, any claims or demands with respect to the aforesaid specifications as are in effect on the date of award of this Contract that are:
- 7.3.1.** Based upon impossibility of performance, defective, inaccurate, impracticable, insufficient or invalid specifications, implied warranties of suitability of such specifications, or

- 7.3.2. Otherwise derived from the aforesaid specifications, and hereby waives any claims or demands so based or derived as might otherwise arise.
- 7.4. Notwithstanding the “Changes” Clause or any other Clause of the Contract, the Contractor hereby agrees that no changes to the aforesaid specifications which may be necessary to permit achievement of the performance requirements specified herein for the Contractor’s proposed work shall entitle the Contractor either to any increase in the firm fixed price as set forth in this Contract or to any extension of the delivery times for the work beyond the period of performance in the SSS.

8. Key Performance Indicators (KPIs) and Targets

- 8.1. Contract performance shall be measured through the use of the following KPIs.
- 8.1.1. Delivery on Time (DOT). A log will be maintained by the Purchaser of how many times delivery is late, and to which degree. The lead time for deliveries are listed in the SSS, and captured in the applicable TO.
- 8.1.2. Delivery Complete. A log will be maintained by the Purchaser comparing the inspection results with the amount of items ordered per TO. The inspection will note how many items were missing or defect upon inspection, and to which degree. Delivery inspection and acceptance requirements are described in Section 3.7 of the SOW.
- 8.1.3. Delivery Discrepancy Closure. A log will be maintained by the Purchaser of how many days it takes between the notification and the closure of a delivery discrepancy. Delivery discrepancies are described in Section 3.7 of the SOW.
- 8.1.4. Warranty Resolution. A log will be maintained by the Purchaser of how many days it takes between the notification and the closure of a warranty claim. Warranty resolution is described in Section 3.11 of the SOW. **At a minimum, the log should contain the following details: device, serial no., failure description, person to contact on site, location of the device.**
- 8.1.5. Up to date Product Catalogue. A log will be maintained by the Purchaser capturing whether the Product Catalogue was up to date throughout the Quarter in question. The Product Catalogue requirements are described in Section 4.6 of the SOW.
- 8.2. The measurement methodology and targets of the different KPIs are detailed in Section 4.3 of the SOW.
- 8.3. **Failure to achieve two (2) consecutive “PASS” Total Quarterly Scores, may give rise to the Purchaser’s right to invoke the “Termination for Default” Clause of these Contract Special Provisions.**

9. Terms of Delivery

- 9.1. Deliverables under this Contract, shall adhere to the requirements stipulated in Section 3 of the SOW.

10. Invoices and Payment Terms

- 10.1. Following Purchaser acceptance of Goods and Services required under the TO, the Contractor shall submit invoices at the completion and acceptance of the TO as per the Clause 11 "Acceptance Procedures".
- 10.2. No payment shall be made with respect to undelivered supplies; works not performed, documentation not delivered, services not rendered and/or incorrectly submitted invoices.
- 10.3. No payment shall be made for additional items delivered that are not specified in the TO.
- 10.4. Evidence of the acceptance by the Purchaser shall be attached to all invoices.
- 10.5. The Contractor shall note that the Purchaser is exempt from customs duties and VAT. The invoice amount shall be exclusive of VAT and exclusive of all Taxes and Duties as per the "Taxes and Duties" Clause of the NCI Agency General Provisions.
- 10.6. Invoices shall be properly supported with any necessary reports, certificates, statements, receipts, written evidence of acceptance by the Purchaser and any other required documentation in accordance with the terms of the Contract.
- 10.7. The invoice shall contain the following certificate:

"I certify that the above invoice is true and correct, that the delivery of the above described items has been duly effected and/or that the above mentioned services have been rendered and the payment therefore has not been received."

The certificate shall be signed by a duly authorised company official on the designated original.

- 10.8. Invoices referencing "CO-XXX-e-FIT / Task Order No XXX or Purchase Order No XXX" shall be submitted to: accountspayable@ncia.nato.int
- 10.9. No paper invoices will be accepted.
- 10.10. NCI Agency will make payment within 45 days of receipt by NCI Agency of a properly prepared and documented invoice.

11. Acceptance Procedures

- 11.1. Acceptance is the action by which the Purchaser formally acknowledges that the

Contractor has fully demonstrated that TO deliverables are complete or have been performed according to the requirements as described in Section 3.7 of the SOW.

12. Obsolescence Replacement

- 12.1.** If any COTS products specified in the Contract are discontinued by their original providers for commercial or technological reasons, the Contractor shall ensure the original products are replaced in the Product Catalogue with the new versions within a month of this notification.
- 12.2.** If necessary for evaluation by the Purchaser, the Contractor shall provide a demonstration of the proposed items. Should the Purchaser decide that the proposed item(s) be included in the Contract, an equitable price adjustment will be negotiated based on fair and reasonable pricing and the proposed item(s) shall be added to the Contract by bilateral modification under the authority of this Clause.
- 12.3.** All changes to the Product Catalogue and specification will be periodically formalized in a Contract Amendment, as described in the "Changes" Clause of these Special Provisions.

13. Warranty & Support

- 13.1.** The Contractor shall provide warranty and support on all material provided under this Contract and in accordance with the relevant Paragraphs in Section 3 of the SOW.
- 13.2.** The warranty period for all equipment shall be a minimum of 1 year from the date of acceptance where no further period is specified.
- 13.3.** Should any period of warranty or conditions of the warranty provided by either the Original Equipment Manufacturer (OEM) or the (Sub-)Contractor exceed those required by the Contract, then these periods or conditions may be incorporated in the Contract at the sole discretion of the Purchaser.
- 13.4.** Should any warranty case not be closed within the timelines specified in Section 3.11 of the SOW, the Purchaser will reserve the right to purchase the replacement item from alternative suppliers. The cost of which shall be reimbursed by the Contractor.

14. Contract Administration

- 14.1.** All notices and communications between the Contractor and the Purchaser shall be written and conducted in the English language. Contract modifications shall only be valid when received in writing from the General Manager, NCI Agency, and/or the NCI Agency Contracting Authority.
- 14.2.** Formal letters and communications shall subsequently be sent by e-mail to the official points of contact quoted in this Contract. Physical copies may be delivered

through the following formal communication means; personal delivery, sent by mail/ registered mail/ courier/ or other delivery service.

14.3. Informal notices and informal communications may be exchanged by all communication means, including telephone and e-mail. All informal communication must be confirmed by a formal letter or other formal communication to be contractually binding.

14.4. All notices and communications shall be effective on receipt.

14.5. Official Points of Contact:

Purchaser	Contractor
NCI Agency NATO Headquarters Avenue Leopold III 1110 Brussels Belgium	[Company name] [Address] [Postcode and City] [Country]
For Contractual & Technical matters: Attn: <i>[To be inserted at contract award]</i> Tel: <i>[To be inserted at contract award]</i> E-mail: <i>[To be inserted at contract award]</i>	For Contractual matters: Attn: <i>[To be inserted at contract award]</i> Tel: <i>[To be inserted at contract award]</i> E-mail: <i>[To be inserted at contract award]</i>
For technical/administrative matters: Attn: e-FAST Mailbox Tel: N/A E-mail: e-FAST@ncia.nato.int	For technical/delivery matters: Attn: <i>[To be inserted at contract award]</i> Tel: <i>[To be inserted at contract award]</i> E-mail: <i>[To be inserted at contract award]</i>

or to such address as the Purchaser may from time to time designate in writing.

15. Sub Contracts

15.1. The Contractor shall place and be responsible for the administration and performance of all sub-contracts including terms and conditions which he deems necessary to meet the requirements of this Contract in full.

15.2. The Contractor shall not place sub-contracts outside the NATO member Nations unless the prior authorisation of the Purchaser has been obtained. Such authorisation will not be granted when the sub-contract involves the carrying out of classified work.

16. Changes

16.1. The Purchaser intends to manage changes to this Contract using the change management procedure described below.

16.2. Request For Change (RFC) is a proposal for changes relevant to the specifications of the items, their market availability, their obsolescence, or any other technological changes.

- 16.3.** The Contractor shall submit the RFCs in written form only upon prior confirmation from the Purchaser that such changes are necessary in light of varied facts or circumstances which prevent the execution of the Contract in its then current form.
- 16.4.** Any RFC submitted by the Contractor to the Purchaser shall, in any case contain as a minimum the RFC identification number, the rationale for the changes, effected CLIN, new CLIN proposal for newly added items, and any effect to the Schedules, technical solutions, and pricing.
- 16.5.** The Contractor shall provide the RFC template prior to the Kick-off Meeting, and shall update the template based on Purchaser feedback.
- 16.6.** The Contractor shall release RFCs in following conditions and within noted timelines:
- 16.6.1.** items will no longer be available for future orders due to obsolescence (immediately),
 - 16.6.2.** new items are in the market that can replace the existing ones with the same form, fit, function specifications (bi-annually and at Technical Refresh Review Meetings as per SOW Section 4.5),
 - 16.6.3.** new items are required due to the new Purchaser requirements (as requested),
 - 16.6.4.** replacement items are required due to the changing Purchaser requirements (as requested).
- 16.7.** The Purchaser will provide written confirmation if the RFC is authorized. In case of RFC rejection, the Contractor shall proceed with the performance in accordance with the Contract.
- 16.8.** The Contractor shall update and release the Product Catalogue within 5 business days after authorization of the RFC's in written form by the Purchaser contractual representative.
- 16.9.** The Purchaser may start ordering based on the new Product Catalogue prior to the formalization via a Contract Amendment. The Purchaser may decide to amend the contract after one or multiple RFCs.
- 16.10.** Except as otherwise provided for in this Contract, prices quoted for the changes, modifications, etc. shall remain valid for the entire period of performance validity of this contract.

17. Options

- 17.1.** The Purchaser may extend the period of performance of the Contract for up to two further increments of one year each or such further period as may be agreed between the parties.
- 17.2.** The existence of an option does not imply that it will be exercised.

17.3. The options may be exercised by the Purchaser as follows:

17.3.1. The options may be exercised by written notification of the Purchaser;

17.3.2. The options may be exercised either together or separately.

18. Liquidated Damages

18.1. If the Contractor fails to:

18.1.1. Successfully meet the required performance dates as defined in the Schedule of Supplies and Services, or any extension thereof, or;

18.1.2. Deliver and obtain acceptance of the deliverables or to acceptably perform the Services as specified in the Schedule of Supplies and Services, Statement of Work and applicable Task Orders.

18.2. The actual damage to the Purchaser for the delay will be difficult or impossible to determine. Therefore, in lieu of actual damages the Contractor shall pay to the Purchaser, for each day of delinquency in achieving the Requirements, fixed and agreed Liquidated Damages of 0.1% (one tenth of one per cent) per day of the total payment amount for each Payment Event as scheduled in the "Invoices and Payment Terms" Clause of these Contract Special Provisions.

18.3. Liquidated Damages shall be payable to the Purchaser from the first day of delinquency in delivery and shall accrue at the rate specified in the paragraph above to an aggregate sum of all delinquent items not to exceed fifteen percent (15%) of the total value of the Task Order for the performance of which the Contractor is delinquent. These liquidated damages shall accrue automatically and without any further notice being required.

18.4. The Contractor shall not be charged with Liquidated Damages when the delay arises out of causes beyond the control and without the fault or negligence of the Contractor. In such event, subject to the provisions of the "Disputes" and "Arbitration" Clauses of the NCI Agency General Provisions, the Purchaser shall ascertain the facts and extent of the delay and shall extend the time for Performance of the Contract when in its judgment the findings of fact justify an extension.

18.5. In addition, the Purchaser may terminate this Contract in whole or in part as provided in the "Termination for Default" Clause of the NCI Agency General Provisions. In the event of such a termination, the Contractor shall be liable for Liquidated Damages accruing to the date of termination, as well as the excess costs stated in the referred Clause.

18.6. The amount of Liquidated Damages due by the Contractor shall be recovered by the Purchaser in the following order of priority:

18.6.1. By deducting such Liquidated Damages from the amounts due to the Contractor against the Contractor's invoices.

18.6.2. By reclaiming such Liquidated Damages through appropriate legal remedies.

18.7. This clause shall be deemed to apply to each issued Task Order.

19. Termination for Default

19.1. Clause 39 “Termination for Default” of the NCI Agency General Provisions is hereby supplemented as follows:

19.2. The Purchaser reserves the right to, by written notice of default to the Contractor, terminate the whole or any part of this Contract for continuous poor performance, if the Contractor fails to achieve sufficient “PASS” markings in its Total Quarterly Scores in relation to the KPIs established in the “Key Performance Indicators (KPI’s) and Targets” Clause of these Special Provisions, in the following case:

19.2.1. two (2) consecutive “FAIL” Total Quarterly Scores.

19.3. Upon the occasion of the first “FAIL” Total Quarterly Score, the Purchaser shall notify the Contractor to initiate a discussion and request a plan for corrective action for the Contractor to improve its performance.

19.4. In case a second consecutive “FAIL” Total Quarterly Score as illustrated above in 19.2.1 occurs, the Purchaser shall issue to the Contractor a written Notice of Termination, signed by the Contracting Authority, stating that continuous poor performance exists, specifying the extent to which performance of Work under the Contract is terminated, and the date upon which such termination becomes effective.

19.5. After receipt of a Notice of Termination, the Contractor shall:

19.5.1. stop the Work on the date and to the extent specified in the Notice of Termination;

19.5.2. place no further orders or Sub-contracts, except as may be necessary for completion of such portion of the work under the Contract as is not terminated;

19.5.3. terminate all orders and Sub-contracts to the extent that they relate to the performance of Work terminated by the Notice of Termination.

19.6. In the event of a situation as described in Sub-Clause 39.6 of the NCI Agency General Provisions, the Contractor shall provide proof in writing no later than 5 business days after receipt of the Notice of Termination described above.

19.7. Continuous poor performance as illustrated above is understood to be an objective reality, based on facts and mutual understanding, and is therefore not open for disputes under the “Disputes” or “Arbitration” Clauses of the NCI Agency General Provisions.

20. Force Majeure

20.1. Neither Party shall be responsible for failure or delay of performance if caused by: an act of war, hostility, or sabotage; act of God; pandemic; electrical, internet, or telecommunication outage that is not caused by the obligated party;

government restrictions; or other event outside the reasonable control of the obligated party.

- 20.2.** Both parties will use reasonable efforts to mitigate the effect of a force majeure event. If such event continues for more than thirty (30) days, either party may cancel unperformed services upon written notice.
- 20.3.** This clause does not excuse the Contractor's obligation to take reasonable steps to follow its normal disaster recovery procedures.

21. ANNEX A: SAMPLE TASK ORDER¹

[RESERVED]

¹ This is a sample Task Order, and could be in a different format when the contract is awarded.

NATO Communications and Information Agency



IFB-CO-115125-e-FIT

- Provision of -

**COTS IT
HARDWARE AND ASSOCIATED SUPPORT**

BOOK II - PART IV

STATEMENT OF WORK (SOW)

AMENDMENT 3

Table of Contents

1	INTRODUCTION	3
1.1	INTRODUCTION AND SCOPE.....	3
2	CONTRACTOR TASKS	4
2.1	GENERAL RESPONSIBILITIES	4
3	INTEGRATED LOGISTIC SUPPORT	6
3.1	INTRODUCTION	6
3.2	INVENTORY	6
3.3	LABELLING	6
3.4	SHIPPING AND TRANSPORTATION	6
3.5	PRESERVATION AND PACKAGING	8
3.6	CUSTOMS.....	9
3.7	DELIVERY ACCEPTANCE	10
3.8	TECHNICAL DOCUMENTATION.....	11
3.9	SUPPLY CHAIN SECURITY	11
3.10	INSTALLATION AND COMMISSIONING SERVICES.....	12
3.11	WARRANTY & SUPPORT	12
4	PROJECT MANAGEMENT	16
4.1	INTRODUCTION	16
4.2	KEY PERSONNEL.....	16
4.3.	KEY PERFORMANCE INDICATORS (KPIs) SCORECARD	17
4.4.	KICK-OFF MEETING	18
4.5.	TECHNICAL REFRESH REVIEWS (TRR).....	19
4.6.	PRODUCT CATALOGUE	20
	ANNEX A: TECHNICAL SPECIFICATIONS	21

1 INTRODUCTION

1.1 INTRODUCTION AND SCOPE

- 1.1.1** This document details the performance of work and provision of deliverables as listed in the Contract Schedule of Supplies and Services (SSS) for which detailed technical specifications are provided at Annex A to this Statement of Work (SOW).
- 1.1.2** The Contractor shall provide equipment, including accessories and associated software, conforming to the technical specifications and configurations throughout a set timeframe, as well as the associated support linked thereto.
- 1.1.3** The Contractor shall supply equipment and services to all authorized NATO Command Locations in Europe and North America including any of NATO's Affiliates, upon issuance of Task Orders in accordance with the terms of the Contract. The list of existing affiliates is available at <http://www.nato.int/cps/en/natolive/structure.htm>
- 1.1.4** The Purchaser will convene a kick off meeting with the Contractor shortly after Contract Award in order to ensure that the method of working together is understood by both parties. This meeting will take place in either Belgium or the Netherlands.

2 CONTRACTOR TASKS

2.1 GENERAL RESPONSIBILITIES

- 2.1.1** The Contractor shall deliver the hardware and associated support upon reception of a Task Order (TO). The TO and ordering process are detailed in the “Task Orders and Ordering” Clause of the Contract Special Provisions.
- 2.1.2** The Contractor shall deliver the equipment as requested in the TO in compliance to the specifications as described in Annex A to this SOW and in the SSS, to the destination specified in the TO, and in accordance with the requirements in Section 3 of this SOW.
- 2.1.3** The Contractor shall provide the tempested equipment per the SSS and in accordance with the SDIP 27 appropriate level, including the certification corresponding to the specific tempest level (Level A, Level B or Level C).
- 2.1.4** As well as providing and delivering technically compliant equipment and accessories, the Contractor shall manage the delivery process and provide technical advice and expertise relative to the equipment and accessories provided under the Contract.
- 2.1.5** The Contractor shall adhere to the delivery timelines as described in the SSS, unless otherwise specified in the relevant TO.
- 2.1.6** The Contractor shall establish and maintain a Product Catalogue for all hardware described in this SOW on a mutually accessible portal, as elaborated in Section 4 of this SOW. Changes to the Product Catalogue will lead to periodic changes to the SSS and the Schedule in Annex A of this SOW through Contract Amendments, as detailed in the “Changes” Clause of the Contract Special Provisions.
- 2.1.7** The Contractor shall conduct bi-annual Technological Refresh Review (TRR) Meetings as detailed in Section 4 of this SOW during the performance of this Contract under the direction of the Purchaser at which time, the current contracted technical baseline shall be examined to determine whether any changes to the items described in Annex A to this SOW are deemed necessary. Changes may be proposed by both the Purchaser and the Contractor but shall only be enacted on the specific direction of the Purchaser, as detailed in the “Changes” Clause of the Contract Special Provisions.
- 2.1.8** The Contractor shall provide the associated warranty and support for each item specified in the SSS in accordance with the requirements in Section 3 of this SOW. This shall include, but is not limited to, on-site installation and commissioning services, (on-site) warranty repair and replacement services as detailed in Section 3 of this SOW.

- 2.1.9** All Contractor, or Sub-contractor personnel shall be of the nationality of any one of the member states of NATO and shall be bound by the security regulations in force within NATO.
- 2.1.10** The Purchaser acknowledges the possibility that due to the fast moving nature of changes in technology, that at the time of contract or task order award, some of the Purchaser's requirements may be discontinued, obsolete, or otherwise no longer available, thereby in need of a replacement or substitution.
- 2.1.11** With this acknowledgement, the Purchaser advises that for each Contract Line Item Number (CLIN) in the Schedule, the Contractor is allowed to propose, for the Purchaser's approval, an alternative (i.e. a replacement or substitution) if due to discontinuation or obsolescence or the Agency's original requirement is neither available or otherwise not considered to be best suitable.

3 INTEGRATED LOGISTIC SUPPORT

3.1 INTRODUCTION

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

3.2 INVENTORY

- 3.2.1** The Contractor shall provide the full and complete inventory within the Material Data Sheet (MDS) of all items (hardware, software and licences) and documents to be delivered under this Contract at least ten (10) working days before shipment, to the Purchaser Point of Contact (PoC) as described in SOW Section 3.4.11.
- 3.2.2** The Contractor shall provide the MDS based on the data fields listed in Annex B. The Contractor shall obtain an electronic version of the MDS template from the Purchaser PoC after contract award. The Purchaser will not accept a delivery without complete and accurate inventory data.

3.3 LABELLING

- 3.3.1** Labelling and marking shall be compliant with STANAG 4281 "NATO Standard Marking for Shipment and Storage".
- 3.3.2** The Contractor shall produce labels and label 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.

3.4 SHIPPING AND TRANSPORTATION

- 3.4.1** The Contractor shall arrange the shipment, transportation and delivery of all items furnished under this Contract from its site in a NATO nation to final destination, and as indicated in TOs and prior to the deadlines (lead times) established in the SSS.
- 3.4.2** All items covered under the Contract shall be Delivered Duty Paid (DDP, INCOTERMS 2010) to the addresses specified in the TO. Items being returned after warranty repair, shall also be shipped at the expense of the Contractor.
- 3.4.3** The delivery schedule of a TO shall consist of one or more shipments as requested by the Purchaser, spaced out in time, to allow the Purchaser time to process the quantities shipped as necessary.
- 3.4.4** Each shipment shall be composed of one batch of one or more pallets. 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.

- 3.4.5** The Contractor shall size its delivery capacity for simultaneous shipments to multiple sites. If the Contractor foresees a capacity risk due to several simultaneous TOs, then the Contractor shall notify the Purchaser immediately upon reception of the TO, and provide a risk mitigation plan within 3 business days, for the Purchaser to decide how to proceed.
- 3.4.6** The Contractor shall be fully responsible for handling, storage, insurance, supply chain security, and custom procedures (including administrative charges in customs, if any) involved in transportation and delivery of supplies prior to the actual acceptance as per SOW Section 3.7 of such supplies at destination.
- 3.4.7** The Contractor shall organise and operate any handling equipment required to unload the equipment in the Purchaser's warehouse or building.
- 3.4.8** The Purchaser will not accept responsibility and/or ownership of the equipment before successful inspection and acceptance is complete, as detailed in the SOW Section 3.7 regarding the Delivery Acceptance.
- 3.4.9** All shipments shall be executed in close co-ordination with the Purchaser's PoC for logistics at SOW Section 3.4.11, and delivery acceptance personnel at final destination.
- 3.4.10** The Contractor shall contact the Purchaser PoC for confirmation of the exact shipment address and detailed instructions, before making any shipment arrangements.
- 3.4.11** The Contractor shall provide the Purchaser with a Notice of Shipment (NoS) at least 10 business days in advance of each shipment. One additional copy of the packing list shall be attached to this notice.

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 and date of planned delivery
9	Number of the Form 302 used (if required)

- 3.4.12** The NCI Agency PoC for all shipment instructions and shipment requests is:
PoC: Derya Adiyen (NCI Agency The Hague) / ILS Office
E-mail: derya.adiyan@ncia.nato.int

- 3.4.13** The Contractor shall provide the safety test reports that is required for the

transportation of the devices containing Lithium-Ion Batteries no later than the actual delivery date of the shipment. Deliveries without the safety test report will not be accepted by the Purchaser.

3.4.14 The Contractor shall provide the Tempest Certificates within the shipment package or prior to the delivery. Deliveries without the tempest certificates will not be accepted by the Purchaser.

3.4.15 The Contractor shall coordinate with the Purchaser PoC for the access the site where equipment will be delivered.

3.4.16 The Contractor shall ensure that the Contractor (or its Sub-Contractor) personnel that is performing the physical delivery are citizens from a NATO nation.

3.5 PRESERVATION AND PACKAGING

3.5.1 The Contractor shall, for the purpose of packaging, handling, storage and transportation, prepare and package items in accordance with STANAG 4280 "NATO Levels of Packaging", NATO packaging level 4, giving due consideration to shipping and other hazards associated with the transportation of consignments overseas.

3.5.2 Packaging and any standard or special packaging materials and containers (boxes, pallets, shipping containers) required for the shipment of items shall be the responsibility of the Contractor at no extra cost to the Purchaser.

3.5.3 Each individual pallet/box shall have the packing list in a weatherproof envelope attached to the outside of each container/box detailing its contents. Another copy of the list shall be provided inside each pallet/box.

3.5.4 In the case of hazardous/dangerous goods and goods requiring export licenses, the Contractor shall ensure that all required forms, safety test reports and certificates are provided within the shipment documents and that all applicable regulations for such goods are followed.

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

Serial	Requirement
1	The Shipping Address
2	Package Number
3	Contract Number and CLIN as per SSS
4	Item Description
5	Part Number and Serial Number
6	Quantity
7	Method of shipment and destination
8	Weight and Volume details
9	Number of pallets/boxes

Serial	Requirement
10	Name and address of the Contractor, Purchaser and Consignor
11	Name and address of the freight forwarder

3.6 CUSTOMS

- 3.6.1** The Contractor shall be responsible for customs clearance of all shipments into the destination countries. It is the Contractors responsibility to take into account delays at customs.
- 3.6.2** The Contractor shall be responsible for the timely request of Custom Forms 302, required for duty free import/export of NATO supplies. However, this duty free status does not include any admin charges that may incur during the customs clearance depending on the HN regulations. Therefore, the Contractor shall be fully responsible for handling such admin charges without any additional cost to the Purchaser.
- 3.6.3** The written request for a 302 form shall be sent to the Purchaser PoC clearly stating the Consignor's and Consignee's name and address, PoC to receive the original Form 302. This request shall be accompanied by one packing list.
- 3.6.4** The Contractor shall ensure that forwarding agents are fully informed of the availability of Form 302 and how this form is utilised to avoid the payment of Customs Duties. Form 302 shall be added to the shipment documents to be provided to the carrier.
- 3.6.5** Following receipt of the request by the Purchaser, normally ten (10) working days are required for the issue of the form.
- 3.6.6** These forms shall be originals and must be mailed or delivered by mail/express courier to the Contractor. 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.
- 3.6.7** 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. Only after having received Purchaser's approval, shall the Contractor pay these customs duties.
- 3.6.8** The Contractor shall add the Custom Form 302 to the shipping documentation. It shall be noted that documents have to be originals which need to be available for the goods to be cleared from Customs. Any unused Form 302 shall be returned to the Purchaser.

3.7 DELIVERY ACCEPTANCE

- 3.7.1** All packages and containers will be inspected by the Purchaser's PoC at final destination. For this, the Contractor shall ensure that:
- 3.7.1.1.** all items requested in the TO have been accounted for;
 - 3.7.1.2.** all packages and pallets specified in the packing lists have been accounted for;
 - 3.7.1.3.** MDS information is correct and complete as per Annex B requirements;
 - 3.7.1.4.** no damage has occurred during transport;
 - 3.7.1.5.** there are no dead on arrivals (DOAs).
- 3.7.2** The Purchaser will notify the Contractor regarding any discrepancies within 10 business days, upon receipt on site. In rare cases where this cannot be achieved due to operational priorities, the Purchaser will notify the Contractor accordingly.
- 3.7.3** If there are any discrepancies noted by the Purchaser during the inspection, the Contractor shall fix these discrepancies within 10 business days after the notification by the Purchaser. The discrepancies shall be understood as following:
- 3.7.3.1.** Missing items,
 - 3.7.3.2.** Wrong items,
 - 3.7.3.3.** Damaged items,
 - 3.7.3.4.** Wrong, incomplete or missing documentation (Safety Test Reports, TEMPEST certificates, MDS etc),
 - 3.7.3.5.** DOAs.
- 3.7.4** The Contractor shall provide a concise Delivery Confirmation statement within 10 business days after each shipment has arrived at final destination or the installation activities are completed, as applicable.
- 3.7.5** If there are any licenses related to the products, the Contractor shall register these licenses under related accounts communicated by the Purchaser. The Contractor shall request the related enterprise account information before completing the registration activities.
- 3.7.6** The Purchaser will provide the confirmation for Acceptance only after the following conditions are met. For this, the Contractor shall ensure and prove that:
- 3.7.6.1.** the deliveries are completed as per SOW 3.7.1,
 - 3.7.6.2.** the delivery discrepancies are resolved as per SOW 3.7.3,
 - 3.7.6.3.** DOAs are replaced (no repair) as per SOW 3.7.3,
 - 3.7.6.4.** the Battery Safety Test Reports are fully provided as per SOW 3.4.12,
 - 3.7.6.5.** Tempest Certificates are provided (if applicable) as per SOW 3.4.13,
 - 3.7.6.6.** the licenses are accounted for and correctly registered as per SOW 3.7.5,

- 3.7.6.7. the On-Site Installation and Commissioning activities are completed as per SOW 3.10, and
- 3.7.6.8. the delivery confirmation statement is provided by the Contractor as per SOW 3.7.4.

3.8 TECHNICAL DOCUMENTATION

- 3.8.1 Each deliverable shall be accompanied with its COTS documentation (user, maintenance and installation manuals). This documentation shall be identified in the inventory.
- 3.8.2 The Certificates and the Declarations of Conformity shall be provided by the Contractor at the time of the delivery.
- 3.8.3 If requested by the Purchaser, the Contractor shall provide the OEM specifications and data sheets to show the reliability characteristics of the equipment (i.e. MTBF) and the configuration item numbers assigned by the OEMs.
- 3.8.4 All documentation shall be in the English language.

3.9 SUPPLY CHAIN SECURITY

- 3.9.1 The Contractor shall warrant that all supplies furnished under this Contract are genuine and free of malicious components, firmware and software.
- 3.9.2 The Contractor shall confirm in the inventory provided (i.e. MDS) that all products to be delivered have been checked for technical integrity and protected from malicious tampering, up to the point of delivery.
- 3.9.3 The Contractor shall identify in the inventory the supplier of all equipment to be delivered and the identities of suppliers of major components thereof. The Contractor shall ensure that all equipment and major components thereof are marked or labelled to identify the supplier.
- 3.9.4 The Contractor shall ensure that all equipment to be delivered are protected from malicious tampering or external intervention during storage and transportation up to the point of delivery. To ensure this protection, the Contractor shall use specially marked packaging material that has a lower risk of duplication.
- 3.9.5 The Contractor shall allow and support ad-hoc spot checks and audits by the Purchaser of any of its supply chain security measures at any of the Contractor's locations and facilities used in the Contractor's supply chain relevant to this Contract.
- 3.9.6 The Purchaser reserves the right to reject, at the Contractor's expense, any equipment delivered which does not conform to the description provided in

the inventory, shows evidence of tampering or constitutes a risk being intervened/tampered during transportation due to theft or unauthorized access. The Contractor shall replace such goods at no cost to the Purchaser.

- 3.9.7** If requested, the Contractor shall provide a Supply Chain Security document to explain their end-to-end supply chain processes and all parties involved in the supply chain from original manufacturer until the delivery at Purchaser facility.

3.10 INSTALLATION AND COMMISSIONING SERVICES

- 3.10.1** If covered under the TO and in accordance with the SSS, the Contractor shall provide qualified and experienced technicians/engineers at specified Purchaser locations to support installation activities under the direction of Purchaser personnel.
- 3.10.2** The Contractor shall ensure that certified installation and professional services technicians/engineers are used from the equipment manufacturer/vendor support organisation to install and commission equipment to comply with support/warranty requirements. **The Purchaser's preference is for these personnel (i.e. certified installation and professional services technicians/engineers) to have a NATO S3CRET security clearance. However, the use of un-cleared personnel may be considered on a case-by-case basis and on a Task Order level.**
- 3.10.3** The Contractor shall plan the on-site installation activities to be completed no later than 10 business days after the on-site receipt of the items. In case the actual installation activities are anticipated to take longer than 5 business days, the completion date will be extended accordingly.
- 3.10.4** The Contractor shall propose the installation dates at the time of NoS released as per SOW 3.4.10 to ensure that the Customer site is ready and available to allow the visit and the activities.
- 3.10.5** The Contractor shall provide the required personnel data no later than 10 business days before the on-site visit, to ensure that necessary authorizations can be obtained and site access can be granted.
- 3.10.6** Installation and commissioning activities shall be fully covered and costed under the related SSS CLIN as described in TO. This shall include any material, travel, per diem or any additional cost that may incur during these activities.

3.11 WARRANTY & SUPPORT

- 3.11.1** The Contractor shall warrant that all supplies (Hardware, Software, licenses) furnished under this Contract conform to the requirements, delivered in a

'like new' condition and are free of any defect in material, code or workmanship.

- 3.11.2** The Warranty shall start at the date of the Acceptance as described in SOW Section 3.7.6 at the destination sites and shall be at least for 1-year duration from the day of acceptance (after installation, if applicable). If a longer warranty duration specified in its respective schedule annex, then the warranty shall be 3-years or 5-years for those products in line with their product specification. For those products, the warranty extension as per SOW 3.11.16 will not be applicable.
- 3.11.3** The Contractor shall assign a PoC within its organization for the warranty claims and shall not delegate such responsibility to its suppliers (i.e. OEMs) unless agreed by the Purchaser on a case by case basis for practicality reasons. The warranty services shall be usable/evocable in all NATO locations and countries, without any restriction to the country of the supplier or the delivery locations.
- 3.11.4** The Contractor shall provide detailed handling instructions, including help-desk and Point of Contact information, to be contacted in case of a warranty claim for each type of equipment. All warranty communications shall be in English.
- 3.11.5** The Contractor shall provide the following warranty services:

Item Category	Item Type	Warranty Service Type*	Resolution Time**	On-Site Intervention***
End-User Items (including but not limited to laptops, tablets, monitors, workstations, thin/thick clients, desktop PCs, projectors, VOIP, KVM switches, peripherals and accessories (mouse, keyboard, webcam, cables, batteries, patch cords, headsets, power adapters, power supply filters and so on) as described in SSS)	COTS	Replacement	10 Business Days	N/A
	TEMPEST	Replacement	20 Business Days	N/A
End-User Items (large) (including but not limited to plotters, printers, DVD Robots)	COTS	Repair/Replacement	10 Business Days	Yes
	TEMPEST	Repair/Replacement	20 Business Days	Yes
Servers, Storage, LAN Items (including but not limited to servers, storage, firewalls, switches, routers)	Devices	Repair/Replacement	10 Business Days	Yes
	Accessories and sub-components (cables, SFPs, media storage)	Replacement	10 Business Days	N/A

	devices/HDDs, batteries, power supplies)			
<i>*When the 'replacement' service is to be applied, the Purchaser will ship back the faulty devices after the receipt of the replacement devices. This excludes media storage devices as per SOW 3.11.14.</i>				
<i>**Resolution time window shall start with the notification from the Purchaser as per SOW 3.11.6 and end with the warranty closure as per SOW 3.11.7 (or 3.11.8 for tempested devices). Warranty Claim Resolution will be monitored as one of the KPIs.</i>				
<i>***On-site intervention shall only be provided when the items are too large to ship and can be repaired on-site; or when the media storage items cannot be removed from the devices or secure wiped, therefore the device needs to be repaired on-site.</i>				
<i>There may be special circumstances (e.g. time lag between shipping an equipment to another destination for OEM warranty support) where these warranty resolution times may not be met by the Contractor. For these types of special circumstances, an agreement should be made with the Purchaser on a Task Order Level to extend the warranty resolution period.</i>				

Table 1 Warranty and Support Services

- 3.11.6** The warranty cases shall be completely resolved and closed within ten (10) business days starting from the notification by the Purchaser creating a warranty claim via email to the Contractor PoC. If shorter timelines and specific warranty requirements are specified in Annex A, then Annex A shall be taken as reference for resolution.
- 3.11.7** The ten (10) business days for warranty resolution shall include:
- 3.11.7.1.** the assessment and proposal for resolution and corrective actions from the Contractor;
 - 3.11.7.2.** technical assistance to Purchaser PoC for remote troubleshooting,
 - 3.11.7.3.** the shipment and receipt of the repair parts at Purchaser facilities,
 - 3.11.7.4.** proposal of alternative parts if the original part is not available,
 - 3.11.7.5.** the receipt of the repaired device or replacement device/parts at Purchaser facilities,
 - 3.11.7.6.** on-site intervention as described in SOW 3.11.10,
 - 3.11.7.7.** closure of the warranty case following Purchaser confirmation.
- 3.11.8** For tempested devices, the above 10 business days will be extended to 20 business days. *This can be extended past 20 business days on a case-by-case basis by agreement with the Purchaser on a Task Order Level.*
- 3.11.9** The Contractor shall provide the 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 shall be at the expense of the Contractor.
- 3.11.10** If the failure could not be identified remotely or the failed devices are too large to ship (DVD robots, printers, plotters, servers, racks and so on), the Contractor shall dispatch a field technician to resolve the issue on-site in Purchaser or its Customer's facilities, ensuring that the resolution will be completed before the timelines specified in SOW Section 3.11.7.

- 3.11.11** The Purchaser will maintain KPIs for warranty claims as described in SOW 4.3.
- 3.11.12** In case the Contractor fails to successfully close the warranty case within 10 business days as per SOW 3.11.7, the Purchaser reserves the right to purchase the replacement item from alternative suppliers and the cost shall be reimbursed from the Contractor as per the “Warranty & Support” Clause in the Contract Special Provisions.
- 3.11.13** If a specific device fails the second time after repair following the first failure, the Contractor shall replace the device and not continue with the repair services after the second failure.
- 3.11.14** Defect magnetic, solid state and electronic media storage devices (e.g. CD-ROM's, DVD's, USB sticks, solid state storage drives, hard drives) will not be returned to the Contractor for warranty repair or replacement due to NATO security constraints. The Contractor shall replace such defect storage devices with new storage devices at no additional cost to the Purchaser. In case the storage media cannot be separated from the device, the Purchaser will secure-wipe the media and return the device without the originally provided software, if not possible to secure-wipe the Contractor shall dispatch a field technician for on-site repair without additional cost to the Purchaser.
- 3.11.15** If the original part is no longer available for warranty repairs or replacements, the Contractor shall provide the alternatives or superseding items, ensuring quality and form, fit and functional requirements. The Contractor shall propose the alternative part with the related part information (P/N, OEM) for Purchaser approval.
- 3.11.16** The Contractor shall extend the warranty from 1-year to 3-years for each CLIN listed in SSS, if requested by the Purchaser in the TO. If extended, the warranty requirements listed in SOW Section 3.11 shall be applicable in its entirety for the duration of the extended warranty. The Purchaser may decide to extend the warranty until the actual delivery date, and amend the TO accordingly.

4 PROJECT MANAGEMENT

4.1 INTRODUCTION

- 4.1.1** This Project Management section outlines the general administration requirements of this Contract.
- 4.1.2** The project will be managed and administrated by the e-FAST Team, who will act as the Purchaser's representative for all project matters, as well as contractual issues, and will therefore be the primary interface between the Contractor and the Purchaser from the Effective Date of Contract (EDC). The contact information of this generic inbox is listed in the "Contract Administration" Clause of the Contract Special Provisions.

4.2 KEY PERSONNEL

- 4.2.1** The Contractor shall designate a Delivery Manager (DM), who shall direct and co-ordinate the activities of the Contractor's project team for the entire duration of the Contract.
- 4.2.1.1.** The Contractor's DM shall be the Contractor's primary interface to the Purchaser's representative.
- 4.2.1.2.** The DM shall be responsible for all deliveries to sites according to Task Orders issued under the contract. They shall further be responsible for all aspects of the day-to-day coordination of equipment deliveries (including but not limited to: orders, customs, notifications, transport, shipment, receipt, hand-over to local stock, and accounting), as well as creating and maintaining an up to date Product Catalogue.
- 4.2.1.3.** The Contractor's DM shall support and attend the Technical Refresh Reviews according to the provisions in Section 4.5 of this SOW.
- 4.2.2.** The Contractor shall designate a Technical Lead (TL), who shall exercise the technical obligations of the Contractor under the Contract, including but not limited to:
- 4.2.2.1.** the ILS requirements in Section 3 of this SOW;
- 4.2.2.2.** advising on the commercial availability of the items which will deliver the technical requirements of the Purchaser;
- 4.2.2.3.** advising on the technology roadmap, changing market offerings;
- 4.2.2.4.** advising on obsolescence management due to end of production, end of sale, or end of support;
- 4.2.2.5.** advising on the technical qualities and characteristics of all equipment and accessories provided under the Contract.
- 4.2.3.** The Contractor may combine the roles of Delivery Manager and Technical Lead into one person providing that the individual proposed has the

qualifications and experience to undertake both roles and the projected workload can be managed by one person. This arrangement shall be subject to Purchaser approval.

4.3. KEY PERFORMANCE INDICATORS (KPIs) SCORECARD

4.3.1. The contract performance shall be measured on a quarterly basis through the use of the five (5) KPIs listed in the “Key Performance Indicators (KPIs) and Targets” Clause of the Contract Special Provisions.

4.3.2. Each KPI has a target, and the KPI shall be awarded a percentage score of compliance towards this target during the quarter in question.

4.3.3. Each KPI score is weighted in terms of its importance to the overall contract performance via a pre-determined weight.

4.3.4. The weighted score, per quarter, of the KPIs provides the Total Quarterly Score in percentages. This Total Quarterly Score shall then be reflected in a Pass or Fail manner on the “Overall Scorecard” to allow for ease of visibility.

4.3.4.1. Pass = 90.1 – 100%

4.3.4.2. Fail = 0 – 90%

4.3.5. The Purchaser will share the Scorecards, and associated feedback, with the Contractor, and discuss the encountered issues and improvements, as required. Based on the feedback provided, the Contractor shall propose an action plan within 10 business days to improve on any identified shortcomings.

4.3.6. The KPIs shall be measured based on the following criteria and instructions, provided in Table 1 below.

KPI	WEIGHT	MEASUREMENT CRITERIA	INSTRUCTIONS FOR SCORING
Delivery on Time (DOT)	20%	Delay in Business Days	• TO Delivery Date means the specified lead time (SSS / TO) after the TO release date. • Arrived by deadline = 100% • Arrived maximum of 2 business days late = 95% • Arrived maximum of 5 business days late = 90% • Every additional business day delay = reduction of 5%
Delivery Complete	20%	Delivery Completeness Percentage	• Complete delivery means all items are correctly delivered in quantity, type, and undamaged based on the inspection as per SOW Section 3.7. • Complete delivery, or above 99% = 100% • All percentages are rounded up to the nearest %-point. • % is calculated by Items Correctly Delivered / Items Ordered
Delivery Discrepancy Resolution	20%	Delay in Business Days	• Discrepancies are listed and elaborated in SOW section 3.7. • All discrepancies closed within 10 business days after Purchaser notification = 100%

			• Every additional business day delay = reduction of 5%. • No Discrepancies with a TO = 100%.
Warranty Resolution	30%	Delay in Business Days	• Warranty Claim Initiation Date means the notification by the Purchaser creating a warranty claim via email. • Warranty Claim Resolution Date means the Purchaser confirmation of satisfactory closure, as per SOW Section 3.11. • All Warranty Claims satisfactorily closed within 10 Business days for COTS, or 20 Business days for TEMPEST devices = 100% • Every additional business day delay = reduction of 5%. • 1 Business day is counted as 24h from the notification.
Up to Date Product Catalogue	10%	Yes or No (following Purchaser request via TO)	• The Product Catalogue is considered not 'up to date' if a Purchaser request was kept on hold or otherwise delayed due to items no longer being available, while remaining available for selection in the Product Catalogue; unless the alternative replacement was already proposed in writing to the Purchaser. This is further elaborated in SOW Section 4.6. • Up to date Product Catalogue = 100% • Notification after submission of a Task Order that the Product Catalogue is not up to date = 0%

Table 2 Scorecard Instructions

4.3.7. All the above is detailed in visual form in the Scorecard in template form attached as Annex C to this SOW.

4.4. KICK-OFF MEETING

4.4.1. The Contractor shall attend the kick-off meeting shortly after Contract Award, when invited by the Purchaser.

4.4.2. The kick-off meeting shall be used to ensure full understanding of the fundamental principles underpinning this IDIQ contract, whereby the Minutes of Meeting shall capture – as a minimum – the discussion on the following topics:

4.4.2.1. Key Personnel.

4.4.2.2. Key Performance Indicators (KPIs) and their targets.

4.4.2.3. Shipment Deliveries.

4.4.2.4. Obsolescence Management.

4.4.2.5. Conditions surrounding contractual options.

4.4.3. Results from the kick-off meeting shall not relieve the Parties of any responsibilities from the Contract.

4.5. TECHNICAL REFRESH REVIEWS (TRR)

- 4.5.1.** The Contractor shall organise bi-annual Technical Refresh Reviews (TRRs), or more frequently if so requested by the Purchaser.
- 4.5.2.** The Contractor will receive a 2 week notice prior to the requested TRR date.
- 4.5.3.** At the TRR the Contractor shall:
 - 4.5.3.1.** report on any changes to the SSS or Annex A to this SOW as proposed by the Purchaser.
 - 4.5.3.2.** report on the technology roadmaps and identify potential efficiency gains for the Purchaser in terms of avoiding obsolescence, or reducing Total Cost of Ownership and bring to the TRR any appropriate recommendation for change to the items described in Annex A to this SOW in the then current version of this Contract.
 - 4.5.3.3.** report on the current schedule of deliveries according to TOs already received including dates, places and quantities of equipment to be delivered by type;
 - 4.5.3.4.** report on the status of warranty claims that are open, and any statistics for those that are closed;
 - 4.5.3.5.** advise the Purchaser of any difficulty or problem foreseen with deliveries already ordered or with potential future deliveries based on the overall project scope as described in the sections above;
 - 4.5.3.6.** advise the Purchaser of any changes to the SSS or Annex A to this SOW which the Contractor deems necessary for the successful performance of this contract.
- 4.5.4.** The Contractor shall make a presentation at each TRR on the updates to equipment detailed in Annex A to this SOW which the Contractor recommends. This shall cover:
 - 4.5.4.1.** What has changed in the market over the last 6 months (e.g. substitution, improvement, and refreshment of technology)?
 - 4.5.4.2.** What benefits can be gained by changing to newer equipment (e.g. work efficiency gains, reduced power, more user friendly etc.)?
 - 4.5.4.3.** What impact would it have on the support activities?
 - 4.5.4.4.** What was the actual failure rate of devices delivered?
 - 4.5.4.5.** Any upcoming obsolescence due to end of production, end of sale or end of support?

- 4.5.5.** The Contractor shall provide the above presentation bi-annually to report the changes referred in 16.6 of the “Changes” Clause of the Special Provisions, if there is no planned TRR at that point in time.
- 4.5.6.** When changes to the SSS or Annex A to this SOW are directed by the Purchaser, the Change management process of the “Changes” Clause of the Special Provisions shall apply.

4.6. PRODUCT CATALOGUE

- 4.6.1.** The Contractor shall create and maintain an up to date Product Catalogue, to be used by the Purchaser on its internal portal, created for the sole use of the Purchaser and its customers. If requested by the Purchaser, the Contractor shall maintain the Product Catalogue on a purchaser-owned online platform instead.
- 4.6.2.** The Product Catalogue shall contain up to date specifications of the applicable equipment Schedule at Annex A to this SOW, with any relevant information to allow the Purchaser to create a TO. This shall include, as a minimum, the following:
- 4.6.2.1.** A complete list of items, with corresponding CLIN identifier;
 - 4.6.2.2.** The specifications of the items (including different options), with corresponding product picture;
 - 4.6.2.3.** An indication of what has changed in the item or specification;
 - 4.6.2.4.** The delivery lead time;
 - 4.6.2.5.** Warranty and support options.
- 4.6.3.** The Contractor shall provide the example Product Catalogue by the kick-off meeting. The Contractor shall make the necessary changes on the formatting based on Purchaser feedback.
- 4.6.4.** The Contractor shall release the first Product Catalogue within 4 weeks of the Contract Signature.
- 4.6.5.** The Product Catalogue shall be kept up to date with any replacement to obsolete or indefinitely unavailable items updated in the manner as described in “Changes” Clause of the Contract Special Provisions.
- 4.6.6.** The Product Catalogue is considered not up to date if a customer request is kept on hold or otherwise delayed due to items no longer being available, while remaining available for selection in the Product Catalogue; unless the alternative replacement was already proposed in writing to the Purchaser.
- 4.6.7.** The Product Catalogue and specifications shall be periodically formalized in Contract Amendments as described in the “Changes” Clause of the Contract Special Provisions, unless the Purchaser determines an immediate iteration is required.

ANNEX A: TECHNICAL SPECIFICATIONS

1. The equipment for this Contract shall meet or exceed the specifications provided in this annex for each lots of the equipment schedules. The equipment covered under the Contract, including items being returned after warranty repair, shall be delivered at the locations mentioned in Task Order and at the date mentioned in Schedule of Supplies and Services (SSS).
2. This Contract shall cover one or more of the below Schedules:
 - 2.1. Schedule A : Standard End-User Equipment
 - 2.2. Schedule B : Storage Equipment
 - 2.3. Schedule C : Server Equipment
 - 2.4. Schedule D : CISCO Global Price List¹
3. The specifications in the requisite Schedule(s) shall be kept up to date by the Contractor in the Product Catalogue.

¹ This Global Price List (GPL) is subject to continuous changes, and is therefore maintained by Cisco directly. Schedule D scope is therefore whatever is on the Cisco GPL at the time of that particular Task Order. With Amendment 2 to this IFB it is clarified that this only refers to the Hardware sub-categories of the Cisco GPL.

NATO Communications and Information Agency



IFB-CO-115125-e-FIT

- Provision of -

**COTS IT
HARDWARE AND ASSOCIATED SUPPORT**

BOOK II - PART IV

STATEMENT OF WORK (SOW)

Schedule A – Standard End-User Equipment AMENDMENT 3

Table of Contents

SCHEDULE A – STANDARD END-USER EQUIPMENT	4
1.1. GENERAL INFORMATION.....	4
1.2. ALTERNATIVES DUE TO DISCONTINUATION OR NON-AVAILABILITY OR OBSOLESCENCE	4
A.1 LAPTOP/NOTEBOOK	6
A.1.1 Business Laptop - Dell Latitude 7410.....	6
A.1.2 Rugged Notebook - Dell Latitude 7424 Rugged Extreme	7
A.1.3 Dell Latitude 7410 CTO i7.....	8
A.1.4 Dell Latitude 7410 CTO i7 16GB	9
A.1.5 Alienware Area 51M.....	10
A.2 WORKSTATIONS	11
A.2.1 Tower Workstation – Dell Precision 3630 3640	11
A.2.2 Tower Workstation – Dell Precision 3630 3640.....	11
A.3 DESKTOP PC	13
A.3.1 Desktop PC – Dell Optiplex 5070 SFF 5080 SFF.....	13
A.3.2 Desktop PC – Dell Optiplex 5070 SFF 5080 SFF (100 Base-FX, SC).....	13
A.4 HYBRIDS/CONVERTIBLES/TABLETS	15
A.4.1 Tablet - Dell Latitude 7200 2-in-1 7210 2-in-1	15
A.4.2 Rugged Tablet - Dell Latitude 7212 7220 Rugged Extreme	16
A.5 THIN CLIENTS	18
A.5.1 Thin-client – Dell Wyse 5070 (Windows 10 IOT).....	18
A.6 MONITORS/DISPLAYS.....	19
A.6.1 Touch Screen Desktop Monitor - Dell P2418HT.....	19
A.6.2 Desktop Monitor – Dell P2419H	19
A.6.3 Desktop Monitor – Dell P2719H	20
A.6.4 Desktop Monitor 4K– Dell U2720Q.....	20
A.6.5 Desktop Monitor Curved Ultrawide – Dell U3419W	20
A.7 KVM SWITCHES.....	22
A.7.1 1 KVM - Belkin F1DN102N-3 Single Monitor	22
A.7.2 KVM – Belkin F1DN202KVM-UN-3 Dual Monitor	22
A.7.3 KVM-Belkin F1DN204KVM-UN-3.....	22
A.7.4 KVM-Belkin F1DN202KVM-UN-3.....	23
A.7.5 KVM-Belkin F1DN202FLP-DP-3	23
A.8 PERIPHERALS & ACCESSORIES	24
A.8.1 Keyboard - Dell KB216 Multimedia Keyboard.....	24
A.8.2 Ergonomic Keyboard LXM-00001	24
A.8.3 Mouse - Dell 6 button Laser Mouse.....	24
A.8.4 Ergonomic Mouse- Microsoft RJG-00002.....	25
A.8.5 Webcam – Logitech C930e.....	25
A.8.6 Smartcard Reader - Cherry JT-0100WB-2.....	25
A.8.7 Headset - Plantronics Blackwire 3220 - 209745-101.....	26
A.8.8 DECT Headset- SENNHEISER Impact DW PRO 2 ML-EU.....	26
A.8.9 DECT Headset- SENNHEISER Impact DW Office ML-EU	26
A.8.10 DECT Headset Adapter Cable- SENNHEISER CEHS-CI 01	27

A.8.11	USB conference kit - Logitech 960-001057 Group	27
A.8.12	Docking Station – Dell WD19	27
A.8.13	Docking Station- Dell WD19TB (180 Watt Thunderbolt).....	28
A.8.14	Universal Power Supply Filter - TEMPEST Universal Power Supply Filter, 3 outlets..	28
A.8.15	Mobile Device Protection - Targus TAR300	28
A.8.16	Anti-theft cable with Kensington socket	29
A.8.17	Anti-theft cable with Noble socket.....	29
A.8.18	Fiber Optic Patch Cords	29
A.8.19	Copper patch-cords	30
A.8.20	HDMI to HDMI cable	30
A.8.21	Dell USB – C Power Adapter Plus - 65W	30
A.8.22	Dell Adapter USB-C to HDMI 2.0.....	30
YES.....		30
A.8.23	Dell Adapter USB-C to DisplayPort	31
A.8.24	USB-C to Ethernet Adapter.....	31
A.8.25	Dell Active Pen-PN557W	31
A.8.26	Socket Extension.....	31
A.8.27	Power cord 230v	31
A.8.28	Removable Storage Media- iStorage Datashur Pro.....	32
A.8.29	External USB HDDs – Seagate Backup Plus Hub 8 TB HDD	32
A.8.30	External USB Slim DVD Drive - Dell DW316	32
A.8.31	Label Printer - Dymo label writer 450 Turbo.....	32
A.8.32	Dual Monitor desk mount - NewStar FPMA-D950D	33
A.8.33	Media Converters.....	33
A.8.34	Projector - LG PH 550G.....	33
A.8.35	Projector - LG PH 450UG Short Throw	34
A.8.36	Personal audio conference speaker - Jabra Speak 510+MS	34
A.8.37	Screen privacy filter - Dicota D30895 (4 Way Privacy).....	34
A.8.38	Desktop Speaker System.....	35
A.8.39	1000 Base SX Network Card Kit	35
A.8.40	Mobile Adapter Dell DA300.....	35
A.9	PRINTERS, PLOTTERS, DVD ROBOT	36
A.9.1	A4 Multifunction Printer HP Color LaserJet Pro M281FDN	36
A.9.2	A3 Printer – HP LaserJet Colour Enterp. Flow MFP M880z	36
A.9.3	Plotter/Scanner – HP DesignJet T830 A0 MFP Plotter	36
A.9.4	Plotter – HP DesignJet T525.....	37
A.9.5	DVD Robot – Hurricane	37

SCHEDULE A – STANDARD END-USER EQUIPMENT

1.1. General Information

1.1.1. The equipment in this schedule includes:

- 1.1.1.1. Laptops/Notebooks
- 1.1.1.2. Workstations
- 1.1.1.3. Desktop PCs
- 1.1.1.4. Hybrids/Convertibles/Tablets
- 1.1.1.5. Thin Clients
- 1.1.1.6. Monitors/Displays
- 1.1.1.7. KVM Switches
- 1.1.1.8. Peripherals & Accessories
- 1.1.1.9. VOIP

1.1.2. General Dimensions and Weight

1.1.3. The dimensions and weight of the equipment listed below shall not exceed the following:

Device type	Height [cm]	Width [cm]	Depth [cm]	Weight [kg]
Workstation	45	20	40	10
Diskless Computer	15	30	40	7
Thin client	30	7	25	2.2
Zero-client Computer	10	25	25	2.2
Business Laptop	24	34	2.4	1.8
Tablet / Two-in-One	22	31	1.8 ¹	1.3 ¹

1.1.4. The configurations and quantities of the items within the equipment listed below may change per Task Order.

1.2. Alternatives due to discontinuation or non-availability or obsolescence

1.2.1. The Purchaser acknowledges the possibility that due to the fast moving nature of changes in technology, that at the time of contract or task order award, some of the Purchaser's requirements may be discontinued or no longer available or obsolete, thereby in need of a replacement or substitution.

1.2.2. With this acknowledgement, the Purchaser advises that for each item which falls under this category, the Contractor is allowed to propose an alternative (i.e. a replacement or substitution) if due to discontinuation or obsolescence or the Purchaser's original requirement is neither

¹ equipped as requested, including keyboard, disk, battery

available nor is best suitable.

- 1.2.3.** Any alternative proposed shall be: (a) same as or similar to the specification and configuration as the Agency's baseline requirement and (b) technically compliant.

A.1 Laptop/Notebook

A.1.1 Business Laptop - Dell Latitude 7410

Item	Minimum Requirements
Performance	BAPCo MobileMark 2018, Office Productivity of TO BE CONFIRMED BAPCo MobileMark 2018, Battery life of TO BE CONFIRMED
Microsoft Licences	MS Windows 10 Pro OEM 64bit no-media
Processor	Intel Core i5-10310U Cores: 4 Threads: 8
Security	Trusted Platform Module (TPM) 2.0 chip on the motherboard AES New Instructions (AES-NI), SecureKey, BIOS Guard, OS Guard or equivalent 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
Memory	8GB, expandable to 32GB
Local storage	Solid State capacity: 240 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
GPU	Intel Integrated UHD Graphics 620 Performance: at least TO BE CONFIRMED @ 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 1080p
Screen Form Factor	14" diagonal size; 1920 x 1080 Full HD; 10-point multi-touch screen; Contrast 1000:1 Brightness 300 nits (auto adjustable); sRGB coverage of >=70% or CIE1931 value of >=72%
Docking Station	Compatible with Dell Dock WD 19
Keyboard	US International QWERTY keyboard, backlit
Touchpad	Touch pad with multi-touch support Compatible with Windows Precision Touchpad Implementation
NIC	No native RJ45 (PXE enabled adapter included)
Ports	2x USB Type C™ Thunderbolt™ 3 with Power Delivery & DisplayPort 2x USB 3.2 Gen 1 with Power share 1x HDMI 2.0
Wi-Fi	Intel Wi-Fi 6 AX201, 2x2, 802.11ax
Additional Features	Integrated Webcam Integrated Microphone Array (dual microphone with noise cancellation) Bluetooth 5.0 Integrated Smartcard reader (PIV compliant) Universal audio jack (Headset Jack + microphone-in + line-in support)
Appearance	Black, or grey colour
Case	1x Notebook sleeve
Power	1x Power adapter and cord (auto sensing 110/230V) 1x Dell USB – C Power Adapter Plus - 65W (Power-In Port: AC in, Power-Out Port: 1 x DC out USB-C)
Power consumption	Up to 90W
Lock	Noble lock socket

A.1.1.1 Dell Latitude 7410 CTO (Mobile Data Transmission)

Compliant with A.1.1 including the following fully integrated equipment.

Item	Minimum Requirements
Mobile Data Transmission	3GPP Release 10-compatible modem supporting: - UMTS (HSPA/+, DC-HSPA) - 850/900/1700/1900/2100 MHz, - LTE-A (Cat. 4) - FDD Band 1-5/7/8/17/20

A.1.2 Rugged Notebook - Dell Latitude 7424 Rugged Extreme

Item	Minimum Requirements
Performance	BAPCo MobileMark 2018, Office Productivity of 953 BAPCo MobileMark 2018; Battery life of 821
Microsoft Licences	MS Windows 10 Pro OEM 64bit no-media
Processor	Intel Core i7-8650U Cores: 4 Threads: 8
Security	Trusted Platform Module (TPM) 2.0 chip on the motherboard. AES New Instructions (AES-NI). SecureKey, BIOS Guard, OS Guard or equivalent. PnP and BIOS setup/boot password/system configuration protection
Power management	Support for Windows InstantGo / Connected Standby, Speed Shift Technology
Remote management	Supports Intel vPro Out of Band Management Technology
Memory	16GB, expandable to 32GB
Local storage	256GB PCIe NVMe Class 40 Opal 2.0 Self Encrypting Solid State Drive
GPU	Intel UHD 620 graphics + AMD Radeon RX540 graphics 128 Bit, Display Port and HDMI 1.4 video output for external display (native)
Screen Form Factor	14" diagonal size; 1920 x 1080 FHD; 10-point multi-touch screen; Contrast 1500:1; Brightness 1000 nits OV (outdoor viewable); sRGB coverage of >=70%.
Docking Station	Compatible with Dell Dock WD 19
Keyboard	US International QWERTY keyboard, backlit
Touchpad	Touch pad with multi-touch support Compatible with Windows Precision Touchpad Implementation
NIC	1000Base-T Gigabit Ethernet (IEEE 802.3-2015) RJ45; Supports PXE
Ports	2x USB Type C™ Thunderbolt™ 3 with Power Delivery & DisplayPort 2x USB 3.2 Gen 1 with Power share 2x USB 3.1 Gen 1 Type A 1x USB 3.1 Gen1 Type A with closeable port door when mini USB receiver inserted 1x USB 3.1 Gen 1 Type-C with Power Delivery (PD) 1x HDMI 2.0
Wi-Fi	Intel Wi-Fi 6 AX201, 2x2, 802.11ax Intel® Dual Band Wireless AC 8265 (802.11ac) 2x2
Additional Features	Integrated Webcam Integrated Microphone Array (dual microphone with noise cancellation) Bluetooth 5.0 Bluetooth 4.2 Integrated Smartcard reader (PIV compliant) Universal audio jack (Headset Jack + microphone-in + line-in support)
Appearance	Black, or grey colour
Power	1x Power adapter and cord (auto sensing 110/230V) 1x Dell USB-C Power Adapter Plus - 65W "

Batteries	Onboard Batteries: 2x 3 Cell 51Whr ExpressCharge capable batteries. Additional Batteries: 2x 3 Cell 51Whr ExpressCharge capable batteries.
Regulatory and environmental	MIL-STD-810G testing: Transit drop (72",60",48"; single unit; 78 drops), operating drop (36"), blowing rain, blowing dust, blowing sand, vibration, functional shock, humidity, salt fog (with rubberized keyboard), altitude, explosive atmosphere, solar radiation, thermal extremes, thermal shock, freeze/thaw, tactical standby to operational. Operating thermal range: -20°F to 145°F (-29°C to 63°C); Non-operating range: -60°F to 160°F (-51°C to 71°C) IEC 60529 ingress protection: IP65 (dust-tight, protected against pressurized water)
Power consumption	Up to 90W
Lock	Noble lock socket

A.1.2.1 Rugged Notebook - Dell Latitude 7424 Rugged Extreme

Compliant with A.1.2 including the following fully integrated equipment.

Item	Minimum Requirements
Mobile Data Transmission	3GPP Release 10-compatible modem supporting: • UMTS (HSPA+, DC-HSPA) - 850/900/1700/1900/2100 MHz, • LTE-A (Cat. 4) - FDD Band 1-5/7/8/17/20

A.1.3 Dell Latitude 7410 CTO i7

Item	Minimum Requirements
Performance	BAPCo MobileMark 2018, Office Productivity of TO BE CONFIRMED BAPCo MobileMark 2018, Battery life of TO BE CONFIRMED
Microsoft Licences	MS Windows 10 Pro OEM 64bit no-media
Processor	Intel Core i7-10610U Cores: 4 Threads: 8
Security	Trusted Platform Module (TPM) 2.0 chip on the motherboard AES New Instructions (AES-NI), SecureKey, BIOS Guard, OS Guard or equivalent 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"
Memory	8GB, expandable to 32GB
Local storage	Solid State capacity: 240 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
GPU	Intel Integrated UHD Graphics 620 Performance: at least TO BE CONFIRMED @ 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 1080p
Screen Form Factor	14" diagonal size; 1920 x 1080 Full HD; 10-point multi-touch screen; Contrast 1000:1 Brightness 300 nits (auto adjustable);

	sRGB coverage of >=70% or CIE1931 value of >=72%
Docking Station	Compatible with Dell Dock WD 15, WD 19
Keyboard	US International QWERTY keyboard, backlit
Touchpad	Touch pad with multi-touch support Compatible with Windows Precision Touchpad Implementation
NIC	No native RJ45 (PXE enabled adapter included)
Ports	1x USB Type-C 3.1 Gen 2 port (Thunderbolt) 2x USB Type-A 3.1 Gen 1 ports 2x USB Type C™ Thunderbolt™ 3 with Power Delivery & DisplayPort 2x USB 3.2 Gen 1 with Power share 1x HDMI 2.0
Wi-Fi	Intel IEEE 802.11 Dual-Band Wireless AC 9560 Wi-Fi (vPro) Intel Wi-Fi 6 AX201, 2x2, 802.11ax
Additional Features	Integrated Webcam Integrated Microphone Array (dual microphone with noise cancellation) Bluetooth 5.0 Integrated Smartcard reader (PIV compliant) TRRS 3.5mm mini-jack connector
Appearance	Black, or grey colour
Case	1x Notebook sleeve
Power	1x Power adapter and cord (auto sensing 110/230V) 1x Dell USB – C Power Adapter Plus - 65W (Power-In Port: AC in, Power-Out Port: 1 x DC out USB-C)
Power consumption	Up to 90W
Lock	Noble lock socket

A.1.4 Dell Latitude 7410 CTO i7 16GB

Item	Minimum Requirements
Performance	BAPCo MobileMark 2018, Office Productivity of TO BE CONFIRMED BAPCo MobileMark 2018, Battery life of TO BE CONFIRMED
Microsoft Licences	MS Windows 10 Pro OEM 64bit no-media
Processor	Intel Core i7-10610U Cores: 4 Threads: 8
Security	Trusted Platform Module (TPM) 2.0 chip on the motherboard AES New Instructions (AES-NI), SecureKey, BIOS Guard, OS Guard or equivalent 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"
Memory	16GB, expandable to 32GB
Local storage	Solid State capacity: 240 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
GPU	Intel Integrated UHD Graphics 620 Performance: at least TO BE CONFIRMED @ 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 1080p
Screen Form Factor	14" diagonal size; 1920 x 1080 Full HD; 10-point multi-touch screen; Contrast 1000:1 Brightness 300 nits (auto adjustable); sRGB coverage of >=70% or CIE1931 value of >=72%

Docking Station	Compatible with Dell Dock WD 19
Keyboard	US International QWERTY keyboard, backlit
Touchpad	Touch pad with multi-touch support Compatible with Windows Precision Touchpad Implementation
NIC	No native RJ45 (PXE enabled adapter included)
Ports	2x USB Type C™ Thunderbolt™ 3 with Power Delivery & DisplayPort 2x USB 3.2 Gen 1 with Power share 1x HDMI 2.0
Wi-Fi	Intel Wi-Fi 6 AX201, 2x2, 802.11ax
Additional Features	Integrated Webcam Integrated Microphone Array (dual microphone with noise cancellation) Bluetooth 5.0 Integrated Smartcard reader (PIV compliant) Universal audio jack (Headset Jack + microphone-in + line-in support)
Appearance	Black, or grey colour
Case	1x Notebook sleeve
Power	1x Power adapter and cord (auto sensing 110/230V) 1x Dell USB – C Power Adapter Plus - 65W (Power-In Port: AC in, Power-Out Port: 1 x DC out USB-C)
Power consumption	Up to 90W
Lock	Noble lock socket

A.1.5 Alienware Area 51M

Item	Minimum Requirements
Processor	Intel Core i9-9900K Cores: 8 Threads: 16
Microsoft Licences	MS Windows 10 Pro OEM 64bit no-media
Memory	64GB DDR4 2400MHz
Local storage	512GB RAID 0 (2x 256GB PCIe M.2 SSDs) + 1TB (+8GB SSHD) Hybrid Drive 1TB (2x 512GB PCIe M.2 SSD) RAID 0 [Boot] + 1TB 7200 RPM Hard drive
GPU	INVIDIA GeForce RTX 2080 8GB GDDR6
Screen Form Factor	17.3" FHD (1920 x 1080) 60Hz Anti-Glare IPS Display
Keyboard	US International QWERTY keyboard, backlit
Touchpad	(APA) All-Points-Addressable Trackpad
NIC	RJ45
Ports	1x USB Type-C Gen 3 port (Thunderbolt) 3x USB Type-A 3.0 Gen 1 ports 1x HDMI 1x miniDP
Wi-Fi	Killer 1550 802.11ac 2x2 WiFi
Additional Features	Integrated Webcam Integrated Microphone Array (dual microphone) Bluetooth 5.0
Appearance	Black colour
Case	1x Notebook sleeve
Power	1x 180W Power Adapter (EU) 1x 330W Power Adapter (EU)
Battery	Lithium Ion (90 Wh) Battery

A.2 Workstations

A.2.1 Tower Workstation – Dell Precision 3630 3640

Item	Minimum Requirements
Performance	BAPCo SysMark 2014, Office Productivity of 1793
Microsoft Licences	MS Windows 10 Pro OEM 64bit no-media
Processor	Intel Core i5-8500 with vPro Intel Core i5-10500 with VPRO
Security	Trusted Platform Module (TPM) 2.0 (or later) chip on the motherboard AES New Instructions (AES-NI), SecureKey, BIOS Guard, OS Guard or equivalent PnP and BIOS setup/boot password/system configuration protection
Remote management	UEFI Enabled, Intel vPro Out of Band Management Technology
Memory	16GB expandable to at least 64GB
Local storage	Solid State capacity: 512 GB, performance: 560MB/sec sequential read and 530MB/sec sequential write, durability: 600 TBW, supported functions: TCG Opal, IEEE-1667, FDE AES-256 All drives in removable cages with a key lock
GPU	Floating-point performance: 6.1TFlops/sec for single precision Triple Display Capable (1920x1080 Full HD at 60Hz on each display) DVI and DisplayPort 1.2 / HDMI video outputs Performance of 121 in CompuBench 1.5 Face Detection
NIC	1x 1000Base-T Ethernet RJ45 connector 1x 1000Base-SX -LCconnector All NICs must support PXE
Wireless LAN	802.11n/ac, Intel Wireless 8260 (optional available and not part of the standard configuration) Intel® Wi-Fi 6 AX201 802.11ax Dual Band (2x2) Wireless Module + Bluetooth 5 (optional available and not part of the standard configuration)
External bays (Option)	Cru DP27L Removable/Lockable Drive cage
Appearance	Black colour
Sound	Integrated full duplex sound card
Power supply and cords	1x Power adapter and cord (according to local requirements)
Ports	Front: 2x USB 2.0 Type A, 1x USB 3.1 Type A (5Gb) 1x USB 3.1 Type C (10Gb), data only Rear: 2x USB 2.0 Type A (with SmartPower) 4x USB 3.1 Type A (5Gb)
Lock	Kensington lock socket

A.2.2 Tower Workstation – Dell Precision 3630 3640

Item	Minimum Requirements
Performance	BAPCo SysMark 2014, Office Productivity of 1793
Microsoft Licences	MS Windows 10 Pro OEM 64bit no-media
Processor	Intel Core i5-8500 with vPro Intel Core i5-10500 with VPRO
Security	Trusted Platform Module (TPM) 2.0 (or later) chip on the motherboard AES New Instructions (AES-NI), SecureKey, BIOS Guard, OS Guard or equivalent

Item	Minimum Requirements
	PnP and BIOS setup/boot password/system configuration protection
Remote management	UEFI Enabled, Intel vPro Out of Band Management Technology
Memory	16GB expandable to at least 64GB
Local storage	Solid State capacity: 512 GB, performance: 560MB/sec sequential read and 530MB/sec sequential write, durability: 600 TBW, supported functions: TCG Opal, IEEE-1667, FDE AES-256 All drives in removable cages with a key lock
GPU	Floating-point performance: 6.1TFlops/sec for single precision Triple Display Capable (1920x1080 Full HD at 60Hz on each display) DVI and DisplayPort 1.2 / HDMI video outputs Performance of 121 in CompuBench 1.5 Face Detection
NIC	1x 1000Base-T Ethernet RJ45 connector 1x 100Base-FX -LCconnector All NICs must support PXE
Wireless LAN	802.11n/ac, Intel Wireless 8260 (optional available and not part of the standard configuration) Intel® Wi-Fi 6 AX201 802.11ax Dual Band (2x2) Wireless Module + Bluetooth 5 (optional available and not part of the standard configuration)
External bays (Option)	Cru DP27L Removable/Lockable Drive cage
Appearance	Black colour
Sound	Integrated full duplex sound card
Power supply and cords	1x Power adapter and cord (according to local requirements)
Ports	Front: 2x USB 2.0 Type A, 1x USB 3.1 Type A (5Gb) 1x USB 3.1 Type C (10Gb), data only Rear: 2x USB 2.0 Type A (with SmartPower) 4x USB 3.1 Type A (5Gb)
Lock	Kensington lock socket

A.3 Desktop PC

A.3.1 Desktop PC – Dell Optiplex ~~5070 SFF~~ **5080 SFF**

Item	Minimum Requirements
Form Factor	SFF
Microsoft Licences	MS Windows 10 Pro OEM 64bit no-media
Performance	i5-9500 i5-10500
Processor	6 cores
Graphics	Intel UHD Graphics 630, Performance: at least 917@ 1024x600 in ComputeMark v2.14, Triple Display Capable (1920x1200@60Hz on each display minimum); Compatible with DirectX 12 (Feature Level 12.0) and OpenGL 4.5; HDMI 1.4 and Displayport
Memory	8GB
Storage	Size: min. 240GB, Speed: min. 450MB/sec sequential read and min. 250MB/sec sequential write durability: 72TBW, supported functions: TCG Opal, IEEE-1667, FDE AES-256
I/O Ports	40x USB (5x 3.1 & 5x 2.0) 1 USB 2.0 Type-A port with PowerShare (front) 1 USB 3.2 Gen 1 Type-A port (front) 1 USB 2.0 port (front) 1 USB 3.2 GEN 2 Type-C port (front) 2 USB 2.0 Type-A ports with Smart Power On (rear) 4 USB 3.2 Gen 1 Type-A ports (rear) 2x DP 1.2 1x UAJ front incl. audio jack split adapter
Network	On-board Gigabit Ethernet controller 1000Base-T (RJ-45 interface port)
Network	100Base-FX or 1000Base-SX, LC connector, Wake-On-LAN, PXE
Drive Bays	1x slim line external bay
Expansion Slots	1x PCIe x16 & 1x PCIe x4, both 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; PnP and BIOS setup/boot password/system configuration protection
Lock	Kensington supervisor lock included
HDD cage	Optional Hard Disk Cage with Lock for 2,5" SATA Disk

A.3.2 Desktop PC – Dell Optiplex ~~5070 SFF~~ **5080 SFF (100 Base-FX, SC)**

Item	Minimum Requirements
Form Factor	SFF
Microsoft Licences	MS Windows 10 Pro OEM 64bit no-media
Performance	i5-9500 i5-10500
Processor	6 cores
Graphics	Intel UHD Graphics 630, Performance: at least 917@ 1024x600 in ComputeMark v2.14, Triple Display Capable (1920x1200@60Hz on each display minimum); Compatible with DirectX 12 (Feature Level 12.0) and OpenGL 4.5; HDMI 1.4 and Displayport

Memory	8GB
Storage	Size: min. 240GB, Speed: min. 450MB/sec sequential read and min. 250MB/sec sequential write durability: 72TBW, supported functions: TCG Opal, IEEE-1667, FDE AES-256
I/O Ports	40x USB (5x 3.1 & 5x 2.0) 1 USB 2.0 Type-A port with PowerShare (front) 1 USB 3.2 Gen 1 Type-A port (front) 1 USB 2.0 port (front) 1 USB 3.2 GEN 2 Type-C port (front) 2 USB 2.0 Type-A ports with Smart Power On (rear) 4 USB 3.2 Gen 1 Type-A ports (rear) 2x DP 1.2 1x HDMI 1x UAJ front
Network	On-board Gigabit Ethernet controller 1000Base-T (RJ-45 interface port) 100Base-FX, SC connector, Wake-On-LAN, PXE
Drive Bays	1x slim line external bay
Expansion Slots	1x PCIe x16 & 1x PCIe x4, both 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; PnP and BIOS setup/boot password/system configuration protection
Lock	Kensington lock socket included
HDD cage	SFF

A.4 Hybrids/Convertibles/Tablets

A.4.1 Tablet - Dell Latitude ~~7200 2-in-1~~ **7210 2-in-1**

Item	Minimum Requirements
Performance	BAPCo MobileMark 2014, Office Productivity of 1039 BAPCo MobileMark 2014; Battery life of 548
Microsoft Licences	MS Windows 10 Pro OEM 64bit no-media
Processor	Intel Core i5-8365U with vPro Intel Core i5-10310U with vPro
Security	Trusted Platform Module (TPM) 2.0, AES New Instructions (AES-NI) , SecureKey, BIOS Guard, OS Guard or equivalent PnP and BIOS setup/boot password/system configuration protection
Power management	Support for InstantGo / Connected Standby, Speed Shift Technology
Remote management	UEFI Enabled, Intel vPro Out of Band Management Technology
Memory	8GB
Local storage	Solid State capacity: 240 GB, performance: 540MB/sec sequential read and 490MB/sec sequential write, durability: 72TBW, TCG Opal, IEEE-1667, XTS-AES 256
GPU	Intel HD Graphics 620, Performance: at least 926 @ 1024x600 in ComputeMark v2.14external display through 1 x USB-C to HDMI 1.4; "Compatible with DirectX 12 (Feature Level 12.0) and OpenGL 4.5"
Screen	12.3" diagonal size 1920 x 1280 resolution 10-point multi-touch screen Contrast 1000:1 Brightness 400 nits(auto adjustable) sRGB coverage of >=70% or CIE 1931 value of >=72%
Keyboard	Fully detachable keyboard and trackpad
Touchpad	Touch pad with multi-touch support Compatible with Windows Precision Touchpad Implementation
Battery	XX hours battery runtime at 200 nits web browsing
Ports / USB	2x USB Type-C with Thunderbolt 3/Power Delivery/DisplayPort 1x USB Type-A 3.1 Gen 1 with PowerShare
Wi-Fi	802.11n/ac, Intel Wireless 8265
Privacy	Detachable Black Privacy Filter with screen attachments
Additional Features	Integrated Webcam, Integrated Microphone Array (dual microphone with noise cancellation), Bluetooth 5.0 Universal Audio Jack supports Headset/Headphone/Line-out/Microphone/Line-in function, Digital- array microphones Integrated Smartcard reader (PIV compliant) ² Integrated physical switch for radios (e.g., WIFI, Bluetooth)
Appearance	Metallic (Aluminium)
Case	Tablet sleeve
Power and cord	2x Power adapter and cord (auto sensing 110/230V)
Docking Station or Port Replicator	Must adhere to requirements listed below.

² The smartcard reader may be external if it can be mounted on the device without compromising the ergonomics of using it in the tablet mode (e.g. nested in the provided cover or sleeve).

A.4.1.1 Tablet - Dell Latitude ~~7200 2-in-1~~ **7210 2-in-1** (Mobile Data Transmission)

Compliant with A.4.1 including the following fully integrated equipment.

Item	Minimum Requirements
Mobile Data Transmission (Optional)	3GPP Release 10-compatible modem supporting: - UMTS (HSPA+, DC-HSPA) - 850/900/1700/1900/2100 MHz, - LTE-A (Cat. 4) - FDD Band 1-5/7/8/17/20

A.4.2 Rugged Tablet - Dell Latitude ~~7212~~ **7220** Rugged Extreme

Item	Minimum Requirements
Performance	BAPCo MobileMark 2014, Office Productivity of 1571, BAPCo MobileMark 2014; Battery life of 1383
Microsoft Licences	MS Windows 10 Pro OEM 64bit no-media
Processor	Intel Core i7-8650U Cores: 4 Threads: 8 Intel Core i7-8665U Cores: 4 Threads: 8
Security	Trusted Platform Module (TPM) 2.0, AES New Instructions (AES-NI) , SecureKey, BIOS Guard, OS Guard or equivalent PnP and BIOS setup/boot password/system configuration protection
Power management	Support for Windows InstantGo / Connected Standby, Speed Shift Technology
Remote management	Supports Intel vPro Out of Band Management Technology
Memory	16GB
Local storage	256GB PCIe NVMe Class 40 Opal 2.0 Self Encrypting Solid State Drive
GPU	Intel Integrated UHD Graphics 620, external display through 1x USB-C to display port or HDMI (USB-C to HDMI adapter included)
Screen Form Factor	11,6" diagonal size; 1920 x 1080 FHD; Capacitive five-point multi-touch, glove-capable; Contrast 800:1; Brightness 600 nits (auto adjustable); sRGB coverage of >=70%.
Docking Station	Tablet should be able to use the docking station described below.
Keyboard	Fully detachable US International QWERTY keyboard and trackpad, backlit
Touchpad	Touch pad with multi-touch support Compatible with Windows Precision Touchpad Implementation
Battery	16.5 hours running time battery (web browsing at 200nits brightness using WiFi) Onboard Batteries 2x 2-cell 34 wH Lithium Ion Batteries. Additional Batteries 2x 2-cell 34 wH Lithium Ion Batteries.
Ports	1x mini serial RS-232, 1x USB Type-C, 1x USB 3.0
Wi-Fi	IEEE 802.11 n/ac, Intel Wireless Dualband Card 8265
Additional Features	Integrated Webcam, Integrated Microphone Array (dual microphone with noise cancellation), Bluetooth 4.2, Integrated Smartcard reader (PIV compliant), TRRS 3.5mm mini-jack connector
Appearance	Black colour
Regulatory and environmental	MIL-STD-810G testing: Transit drop (48"/1.22m; single unit; 26 drops), operating drop (36"/0.91m), blowing rain, blowing dust, blowing sand, vibration, functional shock, humidity, salt fog, altitude, explosive atmosphere, thermal extremes, thermal shock, freeze/thaw, tactical standby to operational Operating thermal range: -20°F to 145°F (-29°C to 63°C); Non-operating: -60°F to 160°F (-51°C to 71°C) IEC 60529 ingress protection18: IP-65 (dust-tight, protected against pressurized water) Hazardous locations: ANSI/ISA.12.12.01 certification capable

	(Class I, Division 2, Groups A, B, C,D),CAN/CSA C22.2Electromagnetic interference: MIL-STD-461F certified
Power	1x Power adapter and cord (auto sensing 110/230V) 1x Dell USB-C Power Adapter Plus - 65W
Power consumption	Up to 90W
Lock	Noble Wedge Lock Socket

A.4.2.1 Rugged Tablet - Dell Latitude 7212 **7220** Rugged Extreme (Mobile Data Transmission)

Compliant with A.4.2 including the following fully integrated equipment.

Item	Minimum Requirements
Mobile Data Transmission (Optional)	Supported Cellular Technologies: LTE FDD, LTE TDD, LTE Broadcast, WCDMA (DB-DC-HSDPA, DC-HSUPA), TD-SCDMA, CDMA 1x, EV-DO, GSM/EDGE

A.5 Thin Clients

A.5.1 Thin-client – Dell Wyse 5070 (Windows 10 IOT)

Item	Minimum Requirements
Memory	4GB RAM, 64GB flash
Client capabilities	Dell Wyse 5070 Win10 IoT Configuration including OS license Remote desktop client 6.3.9600.16415 (supports RDP 8.1 / RemoteFX) Citrix Receiver 14.4.0.8014 with Citrix HDX Real Time Media Engine 2.0.0.41 Vmware Horizon Client 3.5.2 build-3150477
Remote management	Remote management with firmware update
Display output	Two DisplayPort 1.2 outputs Up to 1920x1200 Full HD@60Hz 32 bit colour in dual display
Security	TLS 1.1, Setup/boot password/system configuration protection
NIC	1000Base-SX or 100Base-FX, LC connector, through a replaceable module with ability to support 1000Base-T
Sound	Audio input and output using 3.5mm jack (TRRS)
Noise emission	Silent (fan-less)
Appearance	Black colour
Power supply and cords	1x Power adapter and cord (according to local requirements)
Ports	2 x USB 2.0 (2 on front) 5 x USB 3.0 (1x front 4x rear) 1 x USB-C 1 x RJ-45 Ethernet 1 x Serial Port 1x SFP
Case	VESA Mount compatible
Manageability	Supported remote wake-on-LAN, monitoring, control and patching All identified components installed/integrated into the system
Lock	Kensington lock socket
Operating System	Windows 10 IOT license and software installed

A.6 Monitors/Displays

A.6.1 Touch Screen Desktop Monitor - Dell P2418HT

Item	Minimum Requirements
Size – diagonal	23.8" screen
Contrast	1000:1
Brightness	250nits
Standards	TCO 07
Connections	Dual digital input: 1x Displayport 1.2 via HDMI to DP adapter and 1x HDMI Analogue input: 1x VGA
Touch	10 Point Multi-touch
Native refresh rate	60Hz
Horizontal/vertical viewing angle	178 degrees horizontally and vertically
Native resolution	1920x1080 (Full HD minimum) sRGB coverage of >=70% or CIE 1931 value of >=72% HDCP
Tilt and Swivel	Tilt: +60deg/-5deg minimum
Appearance	Black colour
Power supply and cords	1x Power adapter and cord (according to local requirements)
Cabling	1x signal cable to DisplayPort (cable length 1.5m)
Lock	Kensington lock socket

A.6.1.1 Touch Screen Desktop Monitor - Dell P2418HT

Compliant with A.6.1 - Tempest Level C Certified.

A.6.2 Desktop Monitor – Dell P2419H

Item	Minimum Requirements
Size – diagonal	23.8" screen with ultrathin bezel
Contrast	1000:1
Brightness	250 nits
Standards	TCO certified Displays 7.0
Connections	Yes, 1 x VGA, 1 x HDMI, 1 x DP 1.2 standard ports
Native refresh rate	60Hz
Horizontal/vertical viewing angle	178 degrees horizontally and vertically
Native resolution	FHD resolution 1920 x 1080 with 82% sRGB coverage or CIE 1931 value of >= 72%
Speakers	Dell AC 511M Soundbar with 2x1,25 W speakers included
Tilt and Swivel	Tilt: +21deg/-5deg Swivel: 90deg
Appearance	Black colour
Power supply and cords	1x Power cord included
Cabling	1x DisplayPort cable (cable length 1.8m) included
Lock	Kensington lock slot included

A.6.2.1 Desktop Monitor – Dell P2419H

Compliant with A.6.2 - Tempest Level C Certified.

A.6.2.2 Desktop Monitor – Dell P2419H

Compliant with A.6.2 - Tempest Level B Certified.

A.6.2.3 Desktop Monitor – Dell P2419H

Compliant with A.6.2 - Tempest Level A Certified.

A.6.3 Desktop Monitor – Dell P2719H

Item	Minimum Requirements
Size – diagonal	27" screen with ultrathin bezel
Contrast	1000:1
Brightness	300 nits
Standards	TCO certified Displays 7.0
Connections	1 x VGA, 1 x HDMI, 1 x DP 1.2 standard ports
Native refresh rate	60Hz
Horizontal/vertical viewing angle	178 degrees horizontally and vertically
Native resolution	FHD resolution 1920 x 1080 with 82% sRGB coverage or CIE 1931 value of >= 72%
Tilt and Swivel	Tilt: +21deg/-5deg Swivel: -45° to 45°
Appearance	Black colour
Power supply and cords	1x Power cord included
Cabling	1x DisplayPort cable (cable length 1.8m) included
Lock	Kensington lock slot included

A.6.4 Desktop Monitor 4K– Dell U2720Q

Item	Minimum Requirements
Size – diagonal	27" screen with ultrathin bezel
Contrast	1300:1
Brightness	350 nits
Standards	TCO certified Displays 7.0
Connections	1 x USB-C/ Display Port, 1 x HDMI, 1 x Display Port
Native refresh rate	60Hz
Horizontal/vertical viewing angle	178 degrees horizontally and vertically
Native resolution	4K resolution 3840 x 2160 with 82% sRGB coverage or CIE 1931, value of >= 72%
Tilt and Swivel	Tilt: +21deg/-5deg Swivel: 90°
Appearance	Black colour
Power supply and cords	1x Power cord included
Cabling	1x DisplayPort cable (cable length 1.8m) included
Lock	Kensington lock slot included

A.6.5 Desktop Monitor Curved Ultrawide – Dell U3419W

Item	Minimum Requirements
Size – diagonal	34" screen with thin bezel

Contrast	1000:1
Brightness	300 nits
Standards	TCO certified Displays 7.0
Connections	1 x USB-C/ Display Port, 1 x HDMI, 1 x Display Port
Native refresh rate	60Hz
Horizontal/vertical viewing angle	178 degrees horizontally and vertically
Native resolution	WQHD resolution 1440 x 1080 with 82% sRGB coverage or CIE 1931 value of $\geq 72\%$
Tilt and Swivel	Tilt: +21deg/-5deg Swivel: -30° to 30°
Appearance	Black and Silver colour
Power supply and cords	1x Power cord included
Cabling	1x DisplayPort cable (cable length 1.8m) included

A.7 KVM Switches

A.7.1 1 KVM - Belkin F1DN102N-3 Single Monitor

Item	Minimum Requirements
Device	Device shall be listed in the NATO Information Assurance Product Catalogue under KVM category. Device shall not contain any non-volatile memory. Switching sources shall be manually operated, not through “hot keys” via keyboard. No automatic switching between sources shall be allowed.
Connectors	2xUSB, 2xDisplayPort, 1xHDMI Ports for 2 computers
Dimensions (not to exceed)	2.5cm x 10.9cm x 7.6cm
Cabling	Cablings for two computers and one monitor as specified in A.6, unless otherwise specified in the TO.
Tempest	Level C

A.7.2 KVM – Belkin F1DN202KVM-UN-3 Dual Monitor

Item	Minimum Requirements
Device	Device shall be listed in the NATO Information Assurance Product Catalogue under KVM category. Device shall not contain any non-volatile memory. Switching sources shall be manually operated, not through “hot keys” via keyboard. No automatic switching between sources shall be allowed
Connectors	Ports for 2 computers and 2 monitors, Input: 4x Display Port or HDMI (combo connectors) Output: 2x Display Port or HDMI (combo connectors) 2x USB Type-A female connector (1 designated port for mouse and 1 designated port for keyboard)
Dimensions (not to exceed)	317.5 (W) x 63.5 (H) x 162.6 (L) mm
Cabling	Cablings for two computers and one monitor as specified in A.6, unless otherwise specified in the TO.
Tempest	Level C

A.7.3 KVM-Belkin F1DN204KVM-UN-3

Item	Minimum Requirements
Device	Device shall be listed in the NATO Information Assurance Product Catalogue under KVM category. Device shall not contain any non-volatile memory. Switching sources shall be manually operated, not through “hot keys” via keyboard. No automatic switching between sources shall be allowed
Connectors	2xUSB 2 x DP 1.2a or 2 x HDMI 2.0 via combo connector ports for 4 computers
Dimensions (not to exceed)	12.5 (W) x 3.6 (H) x 6.2 (L) inches / 317.5 (W) x 91.4 (H) x 162.6 (L) mm
Cabling	Cablings for four computers and two monitors as specified in A.6, unless otherwise specified in the TO.
Tempest	Level C

A.7.4 KVM-Belkin F1DN202KVM-UN-3

Item	Minimum Requirements
Device	Device shall be listed in the NATO Information Assurance Product Catalogue under KVM category. Device shall not contain any non-volatile memory. Switching sources shall be manually operated, not through “hot keys” via keyboard. No automatic switching between sources shall be allowed
Connectors	2xUSB, 2 x DP 1.2a or 2 x HDMI 2.0 via combo connector ports for 2 computers
Dimensions (not to exceed)	12.5 (W) x 3.6 (H) x 6.2 (L) inches / 317.5 (W) x 91.4 (H) x 162.6 (L) mm
Cabling	Cablings for two computers and two monitors as specified in A.6, unless otherwise specified in the TO.
Tempest	Level C

A.7.5 KVM-Belkin F1DN202FLP-DP-3

Item	Minimum Requirements
Device	Device shall be listed in the NATO Information Assurance Product Catalogue under KVM category. Device shall not contain any non-volatile memory. Switching sources shall be manually operated, not through “hot keys” via keyboard. No automatic switching between sources shall be allowed
Connectors	2xUSB, 2xDisplayPort ports for 2 computers
Dimensions (not to exceed)	4.3 (W) x 3 (D) x 2 (H) inches / 109.2 (W) x 76.2 (D) x 50.8 (H) mm
Cabling	Cablings for two computers and two monitors as specified in A.6, unless otherwise specified in the TO.
Tempest	Level C

A.8 Peripherals & Accessories

A.8.1 Keyboard - Dell KB216 Multimedia Keyboard

Item	Minimum Requirements
Device	US QWERTY keyboard
Compatibility	Microsoft Windows 10 Enterprise
Connectors	USB
Additional Features	Low profile keys
Cabling	Length: 1.5m

A.8.1.1 Keyboard - Dell KB216 Multimedia Keyboard

Compliant with A.8.1 - Tempest Level C Certified.

A.8.1.2 Keyboard - Dell KB216 Multimedia Keyboard

Compliant with A.8.1 - Tempest Level B Certified.

A.8.1.3 Keyboard - Dell KB216 Multimedia Keyboard

Compliant with A.8.1 - Tempest Level A Certified.

A.8.2 Ergonomic Keyboard LXM-00001

Item	Minimum Requirements
Device	Ergonomic keyboard US QWERTY
Compatibility	Microsoft Windows 10
Connectors	USB
Additional Features	Low profile keys
Cabling	Length: 1.0m

A.8.3 Mouse - Dell 6 button Laser Mouse

Item	Minimum Requirements
Device	Optical/laser scroll mouse (5 button minimum)
Connectors	USB
Cabling	Length: 1.5m

A.8.3.1 Mouse - Dell 6 button Laser Mouse

Compliant with A.8.3 - Tempest Level A Certified.

A.8.3.2 Mouse - Dell 6 button Laser Mouse

Compliant with A.8.3 - Tempest Level B Certified.

A.8.3.3 Mouse - Dell 6 button Laser Mouse

Compliant with A.8.3 - Tempest Level A Certified.

A.8.4 Ergonomic Mouse- Microsoft RJG-00002

Item	Minimum Requirements
Device	Ergonomic optical/laser scroll mouse (5 button minimum)
Connectors	USB
Cabling	Length: 1.0m

A.8.5 Webcam – Logitech C930e

Item	Minimum Requirements
Device	Camera
Video	1080p30 Hardware compression to H.264 with SVC
Audio	Embedded microphone with noise cancelling Frequency response: 200Hz – 7KHz Sensitivity: -25dB
Compatibility	UVC 1.5, Skype for Business
Connectors	USB (Type A)
Security	Physical screen shutter
Mounting	Monitor mounts and freestanding
Cabling	1.8m

A.8.5.1 Webcam – Logitech C930e

Compliant with A.8.5 - Tempest Level C Certified.

A.8.5.2 Webcam – Logitech C930e

Compliant with A.8.5 - Tempest Level B Certified.

A.8.5.3 Webcam – Logitech C930e

Compliant with A.8.5 - Tempest Level A Certified.

A.8.6 Smartcard Reader - Cherry JT-0100WB-2

Item	Minimum Requirements
Device	Smartcard reader compatible with SafeNet SC650, PIV, PIV-I, Common Access Card types of smartcards following ISO/IEC 7816-2, ISO/IEC 7816-3, and ISO/IEC 7816-4 specifications
Dimensions (not to exceed)	6.5 cm x 10 cm x 1.2 cm
Connector	USB
Power	Bus

A.8.6.1 Smartcard Reader - Cherry JT-0100WB-2

Compliant with A.8.6 - Tempest Level C Certified.

A.8.6.2 Smartcard Reader - Cherry JT-0100WB-2

Compliant with A.8.6 - Tempest Level B Certified.

A.8.6.3 Smartcard Reader - Cherry JT-0100WB-2

Compliant with A.8.6 - Tempest Level A Certified.

A.8.7 Headset - Plantronics Blackwire 3220 - 209745-101

Item	Minimum Requirements
Device	Dual Headset Headphone/Microphone
Headphone Frequency Response	20 – 20,000 Hz
Microphone Frequency Response	100 – 10,000 Hz
Weight	118g
Type	On-the-ear
Connectors	USB
Cable Length	1.66m
Additional Features	Noise cancelling microphone Mute button

A.8.7.1 Headset - Plantronics Blackwire 3220 - 209745-101

Compliant with A.8.7 - Tempest Level C Certified.

A.8.7.2 Headset - Plantronics Blackwire 3220 - 209745-101

Compliant with A.8.7 - Tempest Level B Certified.

A.8.7.3 Headset - Plantronics Blackwire 3220 - 209745-101

Compliant with A.8.7 - Tempest Level A Certified.

A.8.8 DECT Headset- SENNHEISER Impact DW PRO 2 ML-EU

Item	Minimum Requirements
Device Type	DECT Headset
DECT	1.880 to 1.900 MHz (EU, UK, AUS) 1.920 to 1.930 MHz (US)
Headphone Frequency Response	150 Hz – 6.8 KHz (Wideband) 300 Hz – 3.5 KHz (Narrowband)
Noise cancellation	Ultra noise-cancelling microphone for optimal speech clarity
Microphone Frequency Response	150 Hz – 6.8 KHz (Wideband), 300 Hz – 3.5 KHz (Narrowband)
Headband	Double-sided
Weight	85 g / 2.98 oz
Additional Features	Mute button

A.8.9 DECT Headset- SENNHEISER Impact DW Office ML-EU

Item	Minimum Requirements
Device Type	DECT Headset
DECT	1.880 to 1.900 MHz (EU, UK, AUS) 1.920 to 1.930 MHz (US)

Headphone Frequency Response	150 Hz – 6.8 KHz (Wideband) 300 Hz – 3.5 KHz (Narrowband)
Noise cancellation	Noise-cancelling microphone for speech clarity
Microphone Frequency Response	150 Hz – 6.8 KHz (Wideband) 300 Hz – 3.5 KHz (Narrowband)
Headband	single-sided and ear hook.
Weight	24 g / 0.86 oz (Ear hook version) 50 g / 1.76 oz (Headband version)
Additional Features	Mute button

A.8.10 DECT Headset Adapter Cable- SENNHEISER CEHS-CI 01

Item	Minimum Requirements
Device Type	CISCO compatible adapter cable
Compatible with	Sennheiser: DW Office, DW Pro 1, DW Pro 2, D 10
Compatible with	CISCO:IP 6945** IP 7945G* IP 8841, IP 7821 IP 7962G* IP 8851 IP 7841 IP 7965G* IP 8861, IP 7861 IP 7975G* IP 7942G* IP 8811
Connectors	RJ 45 (8P8C) and RJ 9 (4P4C) to RJ 9 (4P4C) and RJ 14 (6P4C)
Weight	50 g / 1.75 oz
Cable Length	150 cm / 59.06 in

A.8.11 USB conference kit - Logitech 960-001057 Group

Item	Minimum Requirements
Device	Full HD camera and audio array USB conference kit
Compatibility	Skype for Business UVC 1.5
Video	1080p30, 90deg Field of View Autofocus, Hardware compression to H.264 with SVC
Microphone	Omni-directional microphone array, Frequency response: 100Hz – 10KHz, Sensitivity: -28dB
Speakers	Frequency response: 120Hz – 14KHz
Connection	USB (Type A), 6m cable
Power	Independently powered, Power system voltage and Power adapter and cord according to local requirements
Additional Features	Remote control, Wall mounting kit

A.8.12 Docking Station – Dell WD19

Item	Minimum Requirements
Device	Docking station for business laptop (see 9.3) and tablet (9.6)
Interface to Client Device	USB 3.1 Gen 2 Type C interface to the client including Charging
Display Interfaces	3x Display outputs: 2x DisplayPort 1.2, 1 x HDMI 1.4
Other Interfaces	1x TRRS 3.5mm mini-jack connector, 1x TRS 3.5mm mini-jack connector, 1x RJ45 port, 3x USB 3.0 ports, 2x USB 3.1 USB-C ports
Weight	1.5 Kg without power supply
Dimensions	20.5 cm x 9cm x 29cm

Item	Minimum Requirements
Power	1x Power adapter and cord (according to local requirements – see section 5.5.3.8)

A.8.13 Docking Station- Dell WD19TB (180 Watt Thunderbolt)

Item	Minimum Requirements
Device	Docking station for business laptop (see 9.3) and tablet (9.6)
Interface to Client Device	USB 3.1 Gen 2 Type C interface to the client including charging
Display Interfaces	3x Display outputs: 2x Display Port 1.4, 1x HDMI 2.0 Thunderbolt 3
Other Interfaces	1x TRRS 3.5mm mini-jack connector, 1x TRS 3.5mm mini-jack connector, 1x RJ45 port, 3x USB-A 3.1 Gen 1, 2x USB-C 3.1 Gen 2
Power	1x Power adapter and cord (according to local requirements – see section 5.5.3.8)

A.8.14 Universal Power Supply Filter - TEMPEST Universal Power Supply Filter, 3 outlets

Item	Minimum Requirements
Device	RFI Power Supply Filter, ~110V / ~230V, three outlets with external PSU (according to local requirements), Electricity filtering in accordance with SDIP-27
Power	1x Power connector and cord (according to local requirements)
Security	Electricity filtering in accordance with SDIP-27

A.8.14.1 Universal Power Supply Filter - TEMPEST Universal Power Supply Filter, 3 outlets

Compliant with A.8.14 – EU Power Socket Compatibility.

A.8.14.2 Universal Power Supply Filter - TEMPEST Universal Power Supply Filter, 3 outlets

Compliant with A.8.14 – UK Power Socket Compatibility.

A.8.14.3 Universal Power Supply Filter - TEMPEST Universal Power Supply Filter, 3 outlets

Compliant with A.8.14 – US Power Socket Compatibility.

A.8.15 Mobile Device Protection - Targus TAR300

Item	Minimum Requirements
Device	1x Nylon carrying case able to hold one Business Laptop or one Tablet / Two-in-one and in addition: Mouse, Smartcard Reader, Headset, External Optical Drive and Powerbank
Security	Main compartment must be lockable
Additional Features	Optional: Backpack variant - CN31 Targus Classic Backpack 15,6", Black

A.8.16 Anti-theft cable with Kensington socket

Item	Minimum Requirements
Device	Kensington technology anti-theft cable
Length	Not less 1.7m

A.8.17 Anti-theft cable with Noble socket

Item	Minimum Requirements
Device	Noble technology anti-theft cable
Length	Not less 1.7m

A.8.18 Fiber Optic Patch Cords**A.8.18.1 Fibre optic patch-cords**

Item	Minimum Requirements
Cable type	Fibre-optic, flexible OM1 62,5/125µ
Colour	Cables should be available at least in the following colours: Grey, Orange, Red, Blue, Yellow
Length	2M
Client device-side connector	As offered with the workstation, Diskless Computer, Thin Client and Zero-client Computer
Wall outlet-side connector	Options: LC, ST, MTRJ, SC

A.8.18.2 Fibre optic patch-cords

Identical to A.8.18.1 – but 5M length

A.8.18.3 Fibre optic patch-cords

Identical to A.8.18.1 – but 10M length

A.8.18.4 Fibre optic patch-cords

Item	Minimum Requirements
Cable type	Fibre-optic, flexible OM2 50/125µ
Colour	Cables should be available at least in the following colours: Grey, Orange, Red, Blue, Yellow
Length	2M
Client device-side connector	As offered with the workstation, Diskless Computer, Thin Client and Zero-client Computer
Wall outlet-side connector	Options: LC, ST, MTRJ, SC

A.8.18.5 Fibre optic patch-cords

Identical to A.8.18.4 – but 5M length

A.8.18.6 Fibre optic patch-cords

Identical to A.8.18.4 – but 10M length

A.8.19 Copper patch-cords

Item	Minimum Requirements
Cable type	Copper, S/FTP, flexible, Cat6a
Colour	Cables should be available at least in the following colours: Grey, Orange, Red, Blue, Yellow
Length	Options: 2m, 5m, 10m
Client device-side connector	As offered with the workstation, Diskless Computer, Thin Client and Zero-client Computer
Wall outlet-side connector	RJ45

A.8.19.1 Copper patch-cords

Identical to A.8.19 – but 5M length

A.8.19.2 Copper patch-cords

Identical to A.8.19 – but 10M length

A.8.20 HDMI to HDMI cable

Item	Minimum Requirements
Cable type	High Speed HDMI Cable
Connectors	HDMI male (Type A) to HDMI male (Type A)
Colour	Black
Length	2m

A.8.21 Dell USB – C Power Adapter Plus - 65W

Item	Minimum Requirements
Device type	Power adapter
Color	Black
Connectivity	Power-In Port: AC in, Power-Out Port: 1 x DC out USB-C
DC Port	20V/5V, 2.25A/3A
USB Port	5v, 1A

A.8.22 Dell Adapter USB-C to HDMI 2.0

Item	Minimum Requirements
Device type	USB-C to HDMI 2.0 Adapter
Color	Black
Max video resolution	4K × 2K at 60Hz
HDCP Support	Yes

A.8.23 Dell Adapter USB-C to DisplayPort

Item	Minimum Requirements
Device type	USB-C to DisplayPort
Color	Black
Max video resolution	4096 x 2160
HDCP Support	Yes

A.8.24 USB-C to Ethernet Adapter

Item	Minimum Requirements
Device	USB-C to Ethernet Adapter
Interface Type	USB-C
Ports	1x Gigabit Ethernet
Data Link Protocol	10Mb LAN, 100Mb LAN, GigE
Data Transfer Rate	1000 Mbps, PXE Supported

A.8.25 Dell Active Pen-PN557W

Item	Minimum Requirements
Device type	Active Stylus Pen
Color	Black
Supported OS	Windows 8.1, Windows 10

A.8.26 Socket Extension

Item	Minimum Requirements
Device type	Socket Extension, EU standard
Cord length	1,4 m cord
Number of sockets	6

A.8.26.1 Socket Extension

Identical to 8.26, but UK standard

A.8.26.2 Socket Extension

Identical to 8.26, but US standard

A.8.27 Power cord 230v

Item	Minimum Requirements
Device type	Power Cord 230 V EU standard
Cord length	2m cord
Number of sockets	1

A.8.27.1 Power Cord 230v

UK standard, plus power cord 230 V BS 1363 (Type G), 2m length.

A.8.27.2 Power Cord 230v

US standard, plus power cord 110 V US standard, 1,8 m length

A.8.28 Removable Storage Media- iStorage Datashur Pro

Encrypted USB RSM	Minimum Requirements
Capacity	Encrypted USB RSM
USB Standard	4GB
Ingress Protection Certification	IP57
Bootable	Yes
Encryption	AES-256 bit hardware encryption – no software required

A.8.29 External USB HDDs – Seagate Backup Plus Hub 8 TB HDD

Item	Minimum Requirements
External USB HDDs	8TB USB 3.0 5Gbps / 160 MB/s.

A.8.30 External USB Slim DVD Drive - Dell DW316

Item	Minimum Requirements
Interface	USB 2.0
Read speed	24x (CD) / 8x (DVDB)
Write speed	24x (CD) / 8x (DVD±R) / 6x (DVD±R DL)
Rewrite speed	24x (CD) / 6x (DVD-RW) / 8x (DVD+RW) / 5x (DVD-RAM)
Buffer underrun protection	Automatic buffer underrun protection technology

A.8.31 Label Printer - Dymo label writer 450 Turbo

Label Printer	Minimum Requirements
Connectivity	USB
Max label width	56mm
Print technology	Thermal
Cutting mechanism	Automatic
Speed	71mm/s
Print resolution	600 x 300
Power supply and cords	1x Power adapter and or cord (according to local requirements)

A.8.31.1 Label Printer - Dymo label writer 450 Turbo EU

Identical to A.8.31, Label Printer EU for 280 items - EU power cord min. 1,8 m

A.8.31.2 Label Printer - Dymo label writer 450 Turbo UK

Identical to A.8.31, Label Printer for 10 items - UK (BS 1363) power cord min. 1,8 m

A.8.31.3 Label Printer - Dymo label writer 450 Turbo US

Identical to A.8.31, Label Printer for 10 items - US (NEMA 1-15) power cord min. 1,8m

A.8.32 Dual Monitor desk mount - NewStar FPMA-D950D

Item	Minimum Requirements
Supported number of monitors	2
Colour	White
Supported flatscreen weight	>= 8kg
Flexibility	Pan/tilt/roll (rotate), back, forward: independent per arm
Supported screen size	10 - 27 "
Type of mount	Desk
Supported desk thickness	6 cm
Roll (rotate) range	360 degrees
VESA standard	100x100mm, 75x75mm
VESA Adapter	Yes
Cable Management	Yes

A.8.32.1 Dual Monitor desk mount - NewStar FPMA-D950D

Identical to A.8.35, but black

A.8.32.2 Dual Monitor desk mount - NewStar FPMA-D950D

Identical to A.8.35, but silver

A.8.33 Media Converters**A.8.33.1 Media Converter 1**

Item	Minimum Requirements
Media Converters	Media Converter to 100Base-FX

A.8.33.2 Media Converter 2

Item	Minimum Requirements
Media Converters	Media Converter to 1000Base-SX

A.8.34 Projector - LG PH 550G

Item	Minimum Requirements
Size – diagonal	25" ~100"
Contrast	100.000:1
Brightness	550 ANSI-Lumen
Connections	Input: HDMI, VGA, USB
	Outputs: 3.5mm Audio, Bluetooth audio out
Projection ratio	1,4:1
Lamp Type	LED
Lamp Life	Up to 30,000 hours
Native resolution	1280x720 (HD minimum), Aspect Ratio 16:9/4:3 minimum
Speakers	integrated
Max fan sound level	< 30 db

Power supply and cords	Embedded battery / Power system voltage and Power adapter and cord according to local requirements. US and UK power cables may differ in color from power adapter
Cabling	1x HDMI (cable length 1.5m)
Accessories	Remote Control
Optional	Screen share with WiDi compatible devices
Battery	Built-in, max 2.5 hrs operating time
Dimensions (mm)/Weight	Max WxDxH - 174x116x44 / 650g

A.8.35 Projector - LG PH 450UG Short Throw

Item	Minimum Requirements
Size – diagonal	40" ~80"
Contrast	100.000:1
Brightness	450 ANSI-Lumen
Connections	Input: HDMI, VGA, USB
	Outputs: 3.5mm Audio, Bluetooth audio out
Projection ratio	0.29:1
Lamp Type	LED
Lamp Life	Up to 30,000 hours
Native resolution	1280x720 (HD minimum) Aspect Ratio 16:9/4:3 minimum
Speakers	integrated
Max fan sound level	< 30 db
Power supply and cords	Embedded battery / Power system voltage and Power adapter and cord according to local requirements. US and UK power cables may differ in color from power adapter.
Cabling	1x HDMI (cable length 1.5m)
Accessories	Remote Control
Optional	Screen share with WiDi compatible devices
Battery	Built-in, max 2.5 hrs operating time
Dimensions/Weight	Max LxWxH - 11x18x5 /1.1kg

A.8.36 Personal audio conference speaker - Jabra Speak 510+MS

Item	Minimum Requirements
Connectivity	USB, Bluetooth
Compatible with Skype for business	Yes
Microphone	Built-in omnidirectional
DSP technology	Yes
Wideband Audio	Yes
Built-in rechargeable battery	Yes, USB chargeable, 15 hours operation on battery

A.8.37 Screen privacy filter - Dicota D30895 (4 Way Privacy)

Item	Minimum Requirements
Compatible screen size	14.0"
Characteristics	Protected view from all four sides (left/right and top/bottom), High scratch resistance Attaches easily without forming bubbles No residue when removed Touchscreen Compatible

A.8.38 Desktop Speaker System**A.8.38.1 2.0 Desktop Speaker System-Dell AE215**

Item	Minimum Requirements
Connectivity	USB
Power Supply	USB
Output Power	5 Watt
Frequency Response	80-20000 Hz
Speaker Type	Active/ integrated amplifier
Color	Black

A.8.38.2 2.0 Desktop Speaker System-Dell AE215

Compatible with A.8.38.1, but with Tempest Level C Certification.

A.8.391000 Base SX Network Card Kit

Item	Minimum Requirements
Bus Type Internal	PCI Express x1, V2.1
Bus Type External (SFP Slot)	1 Gbps SFP module
Data transfer rate	Gigabit Ethernet up to 1 Gbps
Mounting Bracket	Low-profile and standard height brackets included
Item (SFP module)	Specification
Data transfer rate	Gigabit Ethernet up to 1 Gbps
Fiber Connection	LC multi-mode female

A.8.40 Mobile Adapter Dell DA300

Item	Minimum Requirements
Device	USB-C Mobile Adapter DA300
Docking Interface	USB-C
Video Interfaces	1x VGA, 1x HDMI, 1x DP
USB Interfaces	1 x USB, 1 x USB-C
Network Interface	Ethernet 1000 - RJ-45
Power	USB powered

A.9 Printers, Plotters, DVD Robot

A.9.1 A4 Multifunction Printer HP Color LaserJet Pro M281FDN

Item	Minimum Requirements
Scan resolution	Colour: 1200 x 1200 dpi
Printing and scanning size	A4 printing and scanning
Print resolution	Colour: 600 x 600 dpi
Scan resolution	1200 x 1200 ppi optical
Copy resolution	600 x 600 dpi
Paper capacity	input tray supporting 150 sheets of plain paper
Speed	A4 black: up to 20 ppm, A4 color: Up to 16 ppm, Copy speed: up to 20 copies per minute, Scan speed: Up to 7ppm (b&w), up to 5 ppm (color)
Network	Gigabit Ethernet 10/100/1000T, TCP, IP, SLP, LPD, SNMP
Features	Single Pass, Scan to Email, Multi Copy Feature, Auto Duplex, Access Control at Printer

A.9.2 A3 Printer – HP LaserJet Colour Enterp. Flow MFP M880z

Item	Minimum Requirements
Type	Multi-Function Device – printing, scanning, copying
Scan resolution	Colour: Up to 600 x 600 dpi
Printing and scanning size	A3 (printing), A4 (scanning)
Print resolution	Colour: Up to 1200 x 1200 dpi
Paper capacity	3 x trays supporting A3 and A4, 500 sheets each
PDL	PCL5E/C, PCL6, XPS, PostScript
Fonts	PCL/PS
Speed	A3 colour: Up to 22 ppm
	A4 duplex: Up to 43 ppm
Network	1 x Gigabit Ethernet 10/100/1000T; TCP/IP/SMP,LPD,SNMP support
Features	Single pass, Scan to email, Multi-copy feature, Auto duplex Access Control at Printer

A.9.3 Plotter/Scanner – HP DesignJet T830 A0 MFP Plotter

Item	Minimum Requirements
Printing size	11" to 36" (279 to 914 mm)
Print resolution	Color: Up to 2400 x 1200 optimized dpi
Scan resolution	600 x 600 DPI
Scan size	max 36 x 109 in, min 5 x 5 in
Scanner type	Sheetfed, CIS (Contact Image Sensor)
Media Types	Bond and coated paper (bond, coated, heavyweight coated, recycled, plain, bright white), technical paper (natural tracing, vellum), film (clear, matte), photographic paper (satin, gloss, semigloss, premium, polypropylene), self-adhesive (adhesive, polypropylene)
Media Sizes	8.3 to 36-in wide sheets, 11 to 36-in rolls (Input tray: 8.3 x 11 to 13 x 19 in, manual feed: 13 x 19 to 36 x 74.7 in, roll: 11 to 36 in)
PDL	TIFF, JPEG, CALS G4, HP-GL/2, HP-RTL, URF

Speed	25 sec/page
Interfaces	Gigabit Ethernet (1000Base-T), Wi-Fi 802.11b/g/n, Wi-Fi Direct, USB Type-A host port
Features	Sheet feed, roll feed, input tray, media bin, automatic cutter

A.9.4 Plotter – HP DesignJet T525

Item	Minimum Requirements
Printing size	11" to 24" (279 to 610 mm)
Print resolution	Color: Up to 2400 x 1200 optimized dpi
Paper capacity	Sheet feed, roll feed and input tray
PDL	HP-GL/2, HP-RTL, JPEG, CALS G4
Speed	35 sec/page
Interfaces	Fast Ethernet (100Base-T), Hi-Speed USB 2.0 certified
Features	Sheet feed, roll feed, input tray, media bin, automatic cutter

A.9.5 DVD Robot – Hurricane

Item	Minimum Requirements
Features	Bulk CD/DVD burning and label printing
Disc Capacity	125
Number of drives	2
Disc Recorders	CD/DVD burners
Recordable Formats	DVD-5, DVD-Video, DVD-ROM, DVD-Audio, DVD-R, DVD-RW, DVD+R, DVD+RW, Dual Layer, CD-ROM Mode 1, CD-ROM Mode 2, CD-ROM/XA (mode 2 form 1 & form 2), CD-DA (Audio CD), MixedMode CD, Video CD, CD-I, Karaoke CD, Photo CD (single session & multisession), HFS, ISO 9660, CD-Bridge, CD-Extra, CD+G, ISRC, multisession, name-card CD, 21 min CD, 63 min cd, 74 min CD, 80 min CD, CD-R, CD-RW, MP3 to Audio CD
Print method	Inkjet
Print resolution	400 dpi
Data interface	Gigabit Ethernet (1000Base-T), via integrated PC
Power	100-240VAC

NATO Communications and Information Agency



IFB-CO-115125-e-FIT

- Provision of -

**COTS IT
HARDWARE AND ASSOCIATED SUPPORT**

BOOK II - PART IV

STATEMENT OF WORK (SOW)

**Schedule B – Storage Equipment
AMENDMENT 3**

Table of Contents

SCHEDULE B – STORAGE EQUIPMENT	3
1.1. General Information.....	3
1.2. Alternatives due to discontinuation or non-availability or obsolescence	3
B.1 Entry-Midrange SAN (Nimble).....	4
B.2 Midrange Unified Storage (SAN&NAS) (DELL-EMC Unity All-Flash)	4
B.3 Midrange SAN (HPE Primera).....	11
B.4 Midrange Unified Storage (NetApp)	15
B.5 Midrange&High-End Storage Dell-EMC PowerStore NVMe SSD	19
B.6 High-End Storage –Dell-EMC PowerMax NVMe SSD	22
B.7 High-End VDI Storage Dell-EMC.....	29
B.8 Data Protection (Backup) Storage Dell-EMC.....	30
B.9 Integrated/Converged Data Protection Appliance.....	38
B.10 NAS & Object Storage	50
B.11 HCI	58
B.12 Data Protection/Backup Software	60
B.13 SAN Switch (HPE).....	62
B.14 Tape Library (HPE).....	63
B.15 StoreOnce (HPE).....	64
B.16 SAN Accessories (HPE)	65
B.17 Dell Networking S6010-ON, 1U, 32x 40GbE QSFP+, 2x AC PSUs,IO to PSU Airflow, OS9 66	
B.18 Dell Networking S4048-ON, 48x 10GbE SFP+ and 6x 40GbE QSFP+ ports, IO to PSU air, 1x AC PSUs, DNOS9	67
B.19 Dell Networking Cable, QSFP+, 40GbE Active Optical (no optics required), 3 Meters, Customer Kit.....	67
B.20 Dell Networking S4048-ON, 48x 10GbE SFP+ and 6x 40GbE QSFP+ ports, IO to PSU air, 1x AC PSUs, DNOS9	67
B.21 Dell Networking S3124F	68
B.22 Dell Networking S3148P	68

SCHEDULE B – STORAGE EQUIPMENT

1.1. General Information

1.1.1. The equipment in this schedule contains Storage (Equipment, and includes the following items:

- 1.1.1.1.** SAN (Storage Area Network)
- 1.1.1.2.** NAS (Network Attached Storage)
- 1.1.1.3.** Unified Storage
- 1.1.1.4.** Data Protection (Backup Storage)
- 1.1.1.5.** Object Storage
- 1.1.1.6.** DAS (Direct Attached Storage) Arrays
- 1.1.1.7.** Tape Libraries
- 1.1.1.8.** HCI
- 1.1.1.9.** Optical Storage
- 1.1.1.10.** Backup Solutions
- 1.1.1.11.** Fiber Channel Switches
- 1.1.1.12.** Removable/portable storage equipment

1.1.2. The configurations and quantities of the items within the equipment listed below may change per Task Order.

1.2. Alternatives due to discontinuation or non-availability or obsolescence

1.2.1. The Purchaser acknowledges the possibility that due to the fast moving nature of changes in technology, that at the time of contract or task order award, some of the Purchaser's requirements may be discontinued or no longer available or obsolete, thereby in need of a replacement or substitution.

1.2.2. With this acknowledgement, the Purchaser advises that for each item which falls under this category, the Contractor is allowed to propose an alternative (i.e. a replacement or substitution) if due to discontinuation or obsolescence or the Purchaser's original requirement is neither available nor is best suitable.

1.2.3. Any alternative proposed shall be: (a) same as or similar to the specification and configuration as the Agency's baseline requirement and (b) technically compliant.

B.1 Entry-Midrange SAN (Nimble)**B.1.1 Nimble AF40_23TB Starter**

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration ¹
Nimble AF40 – 23TB RAW			
1	Q8H41A	HPE Nimble Storage AF40 All Flash Dual Controller 10GBASE-T 2-port Configure-to-order Base Array	1
2	Q8B90B	HPE Nimble Storage 2x16Gb Fibre Channel 2-port FIO Adapter Kit	1
3	Q8G27B	HPE Nimble Storage NOS Default FIO Software	1
4	Q8G44B	HPE Nimble Storage AF40 All Flash Array R2 23TB (24x960GB) FIO Flash Bundle	1
5	Q8J27A	HPE Nimble Storage C13 to C14 250V 10Amp 1.8m Universal FIO Power Cord	2
6	R3P91A	HPE Nimble Storage AF/HF Array Standard Tracking	1
7	HT6Z3A3	HPE NS 3Y 4H Onsite Exch w DMR Supp	1
8	HT6Z3A3 ZG1	HPE NS 2x16Gb FC 2p Adptr Supp	1
9	HT6Z3A3 ZFF	HPE NS AF40 All Flash Base Array Supp	1
10	HT6Z3A3 ZGM	HPE NS AF40/60/80 23TB Flash Upgr Supp	1
11	HA114A1	HPE Installation and Startup Service	1
12	HA114A1 5MR	HPE Nimble Array Startup SVC	1

B.1.2 Nimble AF40_46TB Starter

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
Nimble AF40 – 23TB RAW			
1	Q8H41A	HPE Nimble Storage AF40 All Flash Dual Controller 10GBASE-T 2-port Configure-to-order Base Array	1
2	Q8B90B	HPE Nimble Storage 2x16Gb Fibre Channel 2-port FIO Adapter Kit	1
3	Q8G27B	HPE Nimble Storage NOS Default FIO Software	1
4	Q8G61B	HPE Nimble Storage AF40/60/80 All Flash Array 46TB (24x1.92TB) FIO Flash Bundle	1
5	Q8J27A	HPE Nimble Storage C13 to C14 250V 10Amp 1.8m Universal FIO Power Cord	2
6	R3P91A	HPE Nimble Storage AF/HF Array Standard Tracking	1
7	HT6Z3A3	HPE NS 3Y 4H Onsite Exch w DMR Supp	1
8	HT6Z3A3 ZG1	HPE NS 2x16Gb FC 2p Adptr Supp	1
9	HT6Z3A3 ZFF	HPE NS AF40 All Flash Base Array Supp	1
10	HT6Z3A3 ZGM	HPE NS AF40/60/80 23TB Flash Upgr Supp	1
11	HA114A1	HPE Installation and Startup Service	1
12	HA114A1 5MR	HPE Nimble Array Startup SVC	1

B.2 Midrange Unified Storage (SAN&NAS) (DELL-EMC Unity All-Flash)**B.2.1 Unity XT680F All-Flash (3.84TB SSD) – 50TB RAW**

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
Unity 480F – 50TB RAW			
1	[210-ASLL]	Unity 480F DPE 25x2.5 Customer Supplied Rack (High Line Power 200V-240V)	1
2	[528-BISZ]	Unity AFA Base Software=IC	1
3	[400-BFUP]	Unity F 3.84TB ALL FLASH 25X2.5 SSD	13

¹ Quantity of sub-elements needed for full configuration. This applies throughout the entire Schedule.

4	[406-BBMW]	Unity 2X4 Port Card 10GBaseT AF	1
5	[565-BBHZ]	Unity 2x4 Port IO 16Gb FC AF	1
6	[379-BDOI]	Pair of C13/14 or C19/C20 Power Cords Included with DPE	1
7	[343-BBMO]	Unity DPE Field Install Kit AFA	1
8	[709-BBJN]	Parts Only Warranty 12Months, 12 Month(s)	1
9	[683-23044], [683-23045], [706-12528]	ProDeploy Plus for Dell EMC Unity X80 DPE Hybrid and All Flash	1
10	[865-BBUE], [865-BBUF]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
11	[487-BBBC]	ProSupport Mission Critical Software Support, 60 Month(s)	1
12	[711-BBBZ]	Keep Your Hard Drive, 60 Month(s)	1
13	[210-ASON]	AppSync Unity AF	1
14	[658-BEJW]	AppSync Basic for Unity AF 480=IC	1
15	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1
16	[821-BBDT]	ProSupport Mission Critical AppSync Basic, 60 Month(s)	1
17	[210-ATUQ]	RecoverPoint for Unity XT AF	1
18	[528-BNHM]	RP Basic for Unity 380F/480F/680F/880F=IC	1
19	[487-BBIB]	ProSupport Mission Critical, RecoverPoint Basic, Software Support/Maintenance, 60 Month(s)	1
20	[210-ATUP]	Storage M&R for Unity XT	1
21	[528-BTYG]	Storage M&R for Unity XT =IC	1
22	[487-BBHW]	ProSupport Mission Critical, Storage Monitoring/Reporting, Software Support/Maintenance, 60 Month(s)	1
23	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1

B.2.2 Unity XT680F All-Flash (3.84TB SSD) – 50TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
Unity 680F – 50TB RAW			
1	[210-ASKW]	Unity 680F DPE 25x2.5 Customer Supplied Rack (High Line Power 200V-240V)	1
2	[528-BISZ]	Unity AFA Base Software=IC	1
3	[400-BFUP]	Unity F 3.84TB ALL FLASH 25X2.5 SSD	13
4	[406-BBMW]	Unity 2X4 Port Card 10GBaseT AF	1
5	[565-BBHZ]	Unity 2x4 Port IO 16Gb FC AF	1
6	[379-BDOI]	Pair of C13/14 or C19/C20 Power Cords Included with DPE	1
7	[343-BBMO]	Unity DPE Field Install Kit AFA	1
8	[709-BBJN]	Parts Only Warranty 12Months, 12 Month(s)	1
9	[683-23044], [683-23045], [706-12528]	ProDeploy Plus for Dell EMC Unity X80 DPE Hybrid and All Flash	1
10	[865-BBUE], [865-BBUF]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
11	[487-BBBC]	ProSupport Mission Critical Software Support, 60 Month(s)	1
12	[711-BBBZ]	Keep Your Hard Drive, 60 Month(s)	1

13	[210-ASON]	AppSync Unity AF	1
14	[658-BEJX]	AppSync Basic for Unity AF 680=IC	1
15	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1
16	[821-BBDT]	ProSupport Mission Critical AppSync Basic, 60 Month(s)	1
17	[210-ATUQ]	RecoverPoint for Unity XT AF	1
18	[528-BNHN]	RP Basic for Unity 380F/480F/680F/880F=IC	1
19	[487-BBIB]	ProSupport Mission Critical, RecoverPoint Basic, Software Support/Maintenance, 60 Month(s)	1
20	[210-ATUP]	Storage M&R for Unity XT	1
21	[528-BTYG]	Storage M&R for Unity XT =IC	1
22	[487-BBHW]	ProSupport Mission Critical, Storage Monitoring/Reporting, Software Support/Maintenance, 60 Month(s)	1
23	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1

B.2.3 Unity XT480F All-Flash (3.84TB SSD)– 96TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
Unity 480F – 96TB RAW			
1	[210-ASLL]	Unity 480F DPE 25x2.5 Customer Supplied Rack (High Line Power 200V-240V)	1
2	[528-BISZ]	Unity AFA Base Software=IC	1
3	[400-BFUP]	Unity F 3.84TB ALL FLASH 25X2.5 SSD	25
4	[406-BBMW]	Unity 2X4 Port Card 10GBaseT AF	1
5	[565-BBHZ]	Unity 2x4 Port IO 16Gb FC AF	1
6	[379-BDOI]	Pair of C13/14 or C19/C20 Power Cords Included with DPE	1
7	[343-BBMO]	Unity DPE Field Install Kit AFA	1
8	[709-BBJN]	Parts Only Warranty 12Months, 12 Month(s)	1
9	[683-23044], [683-23045], [706-12528]	ProDeploy Plus for Dell EMC Unity X80 DPE Hybrid and All Flash	1
10	[865-BBUE], [865-BBUF]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
11	[487-BBBC]	ProSupport Mission Critical Software Support, 60 Month(s)	1
12	[711-BBBZ]	Keep Your Hard Drive, 60 Month(s)	1
13	[210-ASON]	AppSync Unity AF	1
14	[658-BEJW]	AppSync Basic for Unity AF 480=IC	1
15	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1
16	[821-BBDT]	ProSupport Mission Critical AppSync Basic, 60 Month(s)	1
17	[210-ATUQ]	RecoverPoint for Unity XT AF	1
18	[528-BNHN]	RP Basic for Unity 380F/480F/680F/880F=IC	1
19	[487-BBIB]	ProSupport Mission Critical, RecoverPoint Basic, Software Support/Maintenance, 60 Month(s)	1
20	[210-ATUP]	Storage M&R for Unity XT	1
21	[528-BTYG]	Storage M&R for Unity XT =IC	1
22	[487-BBHW]	ProSupport Mission Critical, Storage	1

		Monitoring/Reporting, Software Support/Maintenance, 60 Month(s)	
23	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1

B.2.4 Unity XT680F All-Flash (3.84TB SSD)– 96TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
Unity 680F – 96TB RAW			
1	[210-ASKW]	Unity 680F DPE 25x2.5 Customer Supplied Rack (High Line Power 200V-240V)	1
2	[528-BISZ]	Unity AFA Base Software=IC	1
3	[400-BFUP]	Unity F 3.84TB ALL FLASH 25X2.5 SSD	25
4	[406-BBMW]	Unity 2X4 Port Card 10GBaseT AF	1
5	[565-BBHZ]	Unity 2x4 Port IO 16Gb FC AF	1
6	[379-BDOI]	Pair of C13/14 or C19/C20 Power Cords Included with DPE	1
7	[343-BBMO]	Unity DPE Field Install Kit AFA	1
8	[709-BBJN]	Parts Only Warranty 12Months, 12 Month(s)	1
9	[683-23044], [683-23045], [706-12528]	ProDeploy Plus for Dell EMC Unity X80 DPE Hybrid and All Flash	1
10	[865-BBUE], [865-BBUF]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
11	[487-BBBC]	ProSupport Mission Critical Software Support, 60 Month(s)	1
12	[711-BBBZ]	Keep Your Hard Drive, 60 Month(s)	1
13	[210-ASON]	AppSync Unity AF	1
14	[658-BEJX]	AppSync Basic for Unity AF 680=IC	1
15	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1
16	[821-BBDT]	ProSupport Mission Critical AppSync Basic, 60 Month(s)	1
17	[210-ATUQ]	RecoverPoint for Unity XT AF	1
18	[528-BNHM]	RP Basic for Unity 380F/480F/680F/880F=IC	1
19	[487-BBIB]	ProSupport Mission Critical, RecoverPoint Basic, Software Support/Maintenance, 60 Month(s)	1
20	[210-ATUP]	Storage M&R for Unity XT	1
21	[528-BTYG]	Storage M&R for Unity XT =IC	1
22	[487-BBHW]	ProSupport Mission Critical, Storage Monitoring/Reporting, Software Support/Maintenance, 60 Month(s)	1
23	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1

B.2.5 Unity XT680F All-Flash (7.68TB SSD) – 195TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
Unity 680F – 195TB RAW			
1	[210-ASKW]	Unity 680F DPE 25x2.5 Customer Supplied Rack (High Line Power 200V-240V)	1
2	[528-BISZ]	Unity AFA Base Software=IC	1
3	[400-BFUQ]	Unity F 7.68TB ALL FLASH 25X2.5 SSD	25

4	[406-BBMW]	Unity 2X4 Port Card 10GBaseT AF	1
5	[565-BBHZ]	Unity 2x4 Port IO 16Gb FC AF	1
6	[379-BDOI]	Pair of C13/14 or C19/C20 Power Cords Included with DPE	1
7	[343-BBMO]	Unity DPE Field Install Kit AFA	1
8	[709-BBJN]	Parts Only Warranty 12Months, 12 Month(s)	1
9	[683-23044], [683-23045], [706-12528]	ProDeploy Plus for Dell EMC Unity X80 DPE Hybrid and All Flash	1
10	[865-BBUE], [865-BBUF]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
11	[487-BBBC]	ProSupport Mission Critical Software Support, 60 Month(s)	1
12	[711-BBBZ]	Keep Your Hard Drive, 60 Month(s)	1
13	[210-ASON]	AppSync Unity AF	1
14	[658-BEJX]	AppSync Basic for Unity AF 680=IC	1
15	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1
16	[821-BBDT]	ProSupport Mission Critical AppSync Basic, 60 Month(s)	1
17	[210-ATUQ]	RecoverPoint for Unity XT AF	1
18	[528-BNHM]	RP Basic for Unity 380F/480F/680F/880F=IC	1
19	[487-BBIB]	ProSupport Mission Critical, RecoverPoint Basic, Software Support/Maintenance, 60 Month(s)	1
20	[210-ATUP]	Storage M&R for Unity XT	1
21	[528-BTYG]	Storage M&R for Unity XT =IC	1
22	[487-BBHW]	ProSupport Mission Critical, Storage Monitoring/Reporting, Software Support/Maintenance, 60 Month(s)	1
23	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1

B.2.6 PowerStore 3000T NVME All-Flash (3.84TB NVMe SSD)– 50TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerStore 3000T – 50TB RAW			
1	[210-ASUW], [343-BBMR]	PowerStore 3000T Base Dell Customer Racked	1
2	[370-AEZQ]	768GB Appliance DIMM (384GB Per Node)	1
3	[400-BGGM]	3.84TB NVMe SSD	13
4	[800-BBQV]	Clustered Storage	1
5	[528-BTZK]	PowerStore Base SW	1
6	[406-BBON]	10GBASE-T 4 Port Card Pair	1
7	[565-BBJP]	16GB FC 4 Port IO Module Pair	1
8	[450-AIOM]	Dual 1800W (200-240V) Power Supply, includes C13/C14 Power Cords	1
9	[800-BBQV]	No Selection	1
10	[709-BBKK]	Parts Only Warranty 12Months, 12 Month(s)	1
11	[865-BBYM], [865-BBYN]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
12	[711-BBCI]	Keep Your Hard Drive, 60 Month(s)	1
13	[683-23347], [706-12528]	ProDeploy Plus for PowerStore 3xxx T	1
14	[210-ATXO]	AppSync for PowerStore	1
15	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1

16	[528-BYHF]	AppSync Str Pk for PowerStore	1
17	[821-21948]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support Contract	1
18	[487-11924]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support/Maintenance	1

B.2.7 PowerStore 3000T NVME All-Flash (3.84TB NVMe SSD)– 80TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerStore 3000T – 80TB RAW			
1	[210-ASUW], [343-BBMR]	PowerStore 3000T Base Dell Customer Racked	1
2	[370-AEZQ]	768GB Appliance DIMM (384GB Per Node)	1
3	[400-BGGM]	3.84TB NVMe SSD	21
4	[800-BBQV]	Clustered Storage	1
5	[528-BTZK]	PowerStore Base SW	1
6	[406-BBON]	10GBASE-T 4 Port Card Pair	1
7	[565-BBJP]	16GB FC 4 Port IO Module Pair	1
8	[450-AIOM]	Dual 1800W (200-240V) Power Supply, includes C13/C14 Power Cords	1
9	[800-BBQV]	No Selection	1
10	[709-BBKK]	Parts Only Warranty 12Months, 12 Month(s)	1
11	[865-BBYM], [865-BBYN]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
12	[711-BBCI]	Keep Your Hard Drive, 60 Month(s)	1
13	[683-23347], [706-12528]	ProDeploy Plus for PowerStore 3xxx T	1
14	[210-ATXO]	AppSync for PowerStore	1
15	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1
16	[528-BYHF]	AppSync Str Pk for PowerStore	1
17	[821-21948]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support Contract	1
18	[487-11924]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support/Maintenance	1

B.2.8 PowerStore 3000T NVME All-Flash (7.68TB NVMe SSD)– 100TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerStore 3000T – 100TB RAW			
1	[210-ASUW], [343-BBMR]	PowerStore 3000T Base Dell Customer Racked	1
2	[370-AEZQ]	768GB Appliance DIMM (384GB Per Node)	1
3	[400-BGGP]	7.68TB NVMe SSD	13
4	[800-BBQV]	Clustered Storage	1
5	[528-BTZK]	PowerStore Base SW	1
6	[406-BBON]	10GBASE-T 4 Port Card Pair	1
7	[565-BBJP]	16GB FC 4 Port IO Module Pair	1
8	[450-AIOM]	Dual 1800W (200-240V) Power Supply, includes C13/C14 Power Cords	1
9	[800-BBQV]	No Selection	1
10	[709-BBKK]	Parts Only Warranty 12Months, 12 Month(s)	1
11	[865-BBYM], [865-BBYN]	ProSupport and 4Hr Mission Critical, 60	1

		Month(s)	
12	[711-BBCI]	Keep Your Hard Drive, 60 Month(s)	1
13	[683-23347], [706-12528]	ProDeploy Plus for PowerStore 3xxx T	1
14	[210-ATXO]	AppSync for PowerStore	1
15	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1
16	[528-BYHF]	AppSync Str Pk for PowerStore	1
17	[821-21948]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support Contract	1
18	[487-11924]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support/Maintenance	1

B.2.9 PowerStore 3000T NVME All-Flash (7.68TB NVMe SSD)– 161TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerStore 3000T – 161TB RAW			
1	[210-ASUW], [343-BBMR]	PowerStore 3000T Base Dell Customer Racked	1
2	[370-AEZQ]	768GB Appliance DIMM (384GB Per Node)	1
3	[400-BGGP]	7.68TB NVMe SSD	21
4	[800-BBQV]	Clustered Storage	1
5	[528-BTZK]	PowerStore Base SW	1
6	[406-BBON]	10GBASE-T 4 Port Card Pair	1
7	[565-BBJP]	16GB FC 4 Port IO Module Pair	1
8	[450-AIOM]	Dual 1800W (200-240V) Power Supply, includes C13/C14 Power Cords	1
9	[800-BBQV]	No Selection	1
10	[709-BBKK]	Parts Only Warranty 12Months, 12 Month(s)	1
11	[865-BBYM], [865-BBYN]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
12	[711-BBCI]	Keep Your Hard Drive, 60 Month(s)	1
13	[683-23347], [706-12528]	ProDeploy Plus for PowerStore 3xxx T	1
14	[210-ATXO]	AppSync for PowerStore	1
15	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1
16	[528-BYHF]	AppSync Str Pk for PowerStore	1
17	[821-21948]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support Contract	1
18	[487-11924]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support/Maintenance	1

B.2.10 PowerStore 3000T NVME All-Flash (15.36 NVMe SSD)– 200TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerStore 3000T – 200TB RAW			
1	[210-ASUW], [343-BBMR]	PowerStore 3000T Base Dell Customer Racked	1
2	[370-AEZQ]	768GB Appliance DIMM (384GB Per Node)	1
3	[400-BGGK]	15.36TB NVMe SSD	13
4	[800-BBQV]	Clustered Storage	1
5	[528-BTZK]	PowerStore Base SW	1
6	[406-BBON]	10GBASE-T 4 Port Card Pair	1
7	[565-BBJP]	16GB FC 4 Port IO Module Pair	1

8	[450-AIOM]	Dual 1800W (200-240V) Power Supply, includes C13/C14 Power Cords	1
9	[800-BBQV]	No Selection	1
10	[709-BBKK]	Parts Only Warranty 12Months, 12 Month(s)	1
11	[865-BBYM], [865-BBYN]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
12	[711-BBCI]	Keep Your Hard Drive, 60 Month(s)	1
13	[683-23347], [706-12528]	ProDeploy Plus for PowerStore 3xxx T	1
14	[210-ATXO]	AppSync for PowerStore	1
15	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1
16	[528-BYHF]	AppSync Str Pk for PowerStore	1
17	[821-21948]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support Contract	1
18	[487-11924]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support/Maintenance	1

B.2.11 PowerStore 3000T NVME All-Flash (15.36 NVMe SSD)– 322TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerStore 3000T – 322TB RAW			
1	[210-ASUW], [343-BBMR]	PowerStore 3000T Base Dell Customer Racked	1
2	[370-AEZQ]	768GB Appliance DIMM (384GB Per Node)	1
3	[400-BGGK]	15.36TB NVMe SSD	21
4	[800-BBQV]	Clustered Storage	1
5	[528-BTZK]	PowerStore Base SW	1
6	[406-BBON]	10GBASE-T 4 Port Card Pair	1
7	[565-BBJP]	16GB FC 4 Port IO Module Pair	1
8	[450-AIOM]	Dual 1800W (200-240V) Power Supply, includes C13/C14 Power Cords	1
9	[800-BBQV]	No Selection	1
10	[709-BBKK]	Parts Only Warranty 12Months, 12 Month(s)	1
11	[865-BBYM], [865-BBYN]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
12	[711-BBCI]	Keep Your Hard Drive, 60 Month(s)	1
13	[683-23347], [706-12528]	ProDeploy Plus for PowerStore 3xxx T	1
14	[210-ATXO]	AppSync for PowerStore	1
15	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1
16	[528-BYHF]	AppSync Str Pk for PowerStore	1
17	[821-21948]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support Contract	1
18	[487-11924]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support/Maintenance	1

B.3 Midrange SAN (HPE Primera)

B.3.1 Primera A630 12x2TB SSD

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
A630 – 24TB RAW			
1	N9Z46A	HPE Primera 600 2-way Storage Base	1

2	N9Z55A	HPE Primera A630 2-node Controller	1
3	N9Z55A 0D1	Factory Integrated	1
4	R0P95A	HPE Primera 600 1.92TB SAS SFF (2.5in) SSD	12
5	R0P95A 0D1	Factory Integrated	12
6	N9Z39A	HPE Primera 600 32Gb 4-port Fibre Channel Host Bus Adapter	2
7	N9Z39A 0D1	Factory Integrated	2
8	581817-B21	HPE Configurator Defined Build Instruction Option	1
9	P1F60A	HPE Inside Unpack/Clean Up XL SVC	1
10	HA124A1	HPE Technical Installation Startup SVC	1
11	HA124A1 5SH	HPE Startup Primera 600 2N Base Fld SVC	1
12	HA124A1 5R5	HPE Startup Primera 600 Base SW SVC	1
13	H0JD6A1	HPE Storage SSD Extended Replacement SVC	12
14	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
15	HT7A6A3 Z09	HPE Primera 600 2-way Storage Base Supp	1
16	HT7A6A3 WSF	HPE Internal Entitlement Support	1
17	HT7A6A3 Z0B	HPE Primera A630/C630 2N Controller Supp	1
18	HT7A6A3 Z0N	HPE Primera 600 4p 32Gb FC HBA Support	2
19	HT7A6A3 Z0S	HPE Primera 600 1.92TB SFF SSD Support	12
20	R1P30AAE	HPE Primera 630/650/670 Software E-Media Kit	1

B.3.2 Primera A630 12x4TB SSD

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
A630 – 48TB RAW			
1	N9Z46A	HPE Primera 600 2-way Storage Base	1
2	N9Z55A	HPE Primera A630 2-node Controller	1
3	N9Z55A 0D1	Factory Integrated	1
4	R0P96A	HPE Primera 600 3.84TB SAS SFF (2.5in) SSD	12
5	R0P96A 0D1	Factory Integrated	12
6	N9Z39A	HPE Primera 600 32Gb 4-port Fibre Channel Host Bus Adapter	2
7	N9Z39A 0D1	Factory Integrated	2
8	581817-B21	HPE Configurator Defined Build Instruction Option	1
9	P1F60A	HPE Inside Unpack/Clean Up XL SVC	1
10	HA124A1	HPE Technical Installation Startup SVC	1
11	HA124A1 5SH	HPE Startup Primera 600 2N Base Fld SVC	1
12	HA124A1 5R5	HPE Startup Primera 600 Base SW SVC	1
13	H0JD6A1	HPE Storage SSD Extended Replacement SVC	12
14	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
15	HT7A6A3 Z09	HPE Primera 600 2-way Storage Base Supp	1
16	HT7A6A3 WSF	HPE Internal Entitlement Support	1
17	HT7A6A3 Z0B	HPE Primera A630/C630 2N Controller Supp	1
18	HT7A6A3 Z0N	HPE Primera 600 4p 32Gb FC HBA Support	2
19	HT7A6A3 Z0T	HPE Primera 600 3.84TB SFF SSD Support	12
20	R1P30AAE	HPE Primera 630/650/670 Software E-Media Kit	1

B.3.3 Primera A630 12x8TB SSD

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
A630 – 96TB RAW			
1	N9Z46A	HPE Primera 600 2-way Storage Base	1
2	N9Z55A	HPE Primera A630 2-node Controller	1
3	N9Z55A 0D1	Factory Integrated	1
4	R0P97A	HPE Primera 600 7.68TB SAS SFF (2.5in) SSD	12
5	R0P97A 0D1	Factory Integrated	12

6	N9Z39A	HPE Primera 600 32Gb 4-port Fibre Channel Host Bus Adapter	2
7	N9Z39A 0D1	Factory Integrated	2
8	581817-B21	HPE Configurator Defined Build Instruction Option	1
9	P1F60A	HPE Inside Unpack/Clean Up XL SVC	1
10	HA124A1	HPE Technical Installation Startup SVC	1
11	HA124A1 5SH	HPE Startup Primera 600 2N Base Fld SVC	1
12	HA124A1 5R5	HPE Startup Primera 600 Base SW SVC	1
13	H0JD6A1	HPE Storage SSD Extended Replacement SVC	12
14	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
15	HT7A6A3 Z09	HPE Primera 600 2-way Storage Base Supp	1
16	HT7A6A3 WSF	HPE Internal Entitlement Support	1
17	HT7A6A3 Z0B	HPE Primera A630/C630 2N Controller Supp	1
18	HT7A6A3 Z0N	HPE Primera 600 4p 32Gb FC HBA Support	2
19	HT7A6A3 Z0U	HPE Primera 600 7.68TB SFF SSD Support	12
20	R1P30AAE	HPE Primera 630/650/670 Software E-Media Kit	1

B.3.4 Primera A630 12x15TB SSD

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
A630 – 180TB RAW			
1	N9Z46A	HPE Primera 600 2-way Storage Base	1
2	N9Z55A	HPE Primera A630 2-node Controller	1
3	N9Z55A 0D1	Factory Integrated	1
4	R0P98A	HPE Primera 600 15.36TB SAS SFF (2.5in) SSD	12
5	R0P98A 0D1	Factory Integrated	12
6	N9Z39A	HPE Primera 600 32Gb 4-port Fibre Channel Host Bus Adapter	2
7	N9Z39A 0D1	Factory Integrated	2
8	581817-B21	HPE Configurator Defined Build Instruction Option	1
9	P1F60A	HPE Inside Unpack/Clean Up XL SVC	1
10	HA124A1	HPE Technical Installation Startup SVC	1
11	HA124A1 5SH	HPE Startup Primera 600 2N Base Fld SVC	1
12	HA124A1 5R5	HPE Startup Primera 600 Base SW SVC	1
13	H0JD6A1	HPE Storage SSD Extended Replacement SVC	12
14	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
15	HT7A6A3 Z09	HPE Primera 600 2-way Storage Base Supp	1
16	HT7A6A3 WSF	HPE Internal Entitlement Support	1
17	HT7A6A3 Z0B	HPE Primera A630/C630 2N Controller Supp	1
18	HT7A6A3 Z0N	HPE Primera 600 4p 32Gb FC HBA Support	2
19	HT7A6A3 Z0V	HPE Primera 600 15.36TB SFF SSD Support	12
20	R1P30AAE	HPE Primera 630/650/670 Software E-Media Kit	1

B.3.5 Primera A650-4N 72x8TB SSD

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
A650 – 576TB RAW			
1	N9Z47A	HPE Primera 600 4-way Storage Base	1
2	N9Z61A	HPE Primera A650 4-node Controller	1
3	N9Z61A 0D1	Factory Integrated	1
4	R0P97A	HPE Primera 600 7.68TB SAS SFF (2.5in) SSD	36
5	R0P97A 0D1	Factory Integrated	36
6	N9Z39A	HPE Primera 600 32Gb 4-port Fibre Channel Host Bus Adapter	4
7	N9Z39A 0D1	Factory Integrated	4
8	716195-B21	HPE External 1.0m (3ft) Mini-SAS HD 4x to Mini-SAS HD 4x Cable	8

9	716195-B21 0D1	Factory Integrated	8
10	581817-B21	HPE Configurator Defined Build Instruction Option	1
11	N9Z50A	HPE Primera 600 2U 24-disk SFF Drive Enclosure	2
12	R0P97A	HPE Primera 600 7.68TB SAS SFF (2.5in) SSD	36
13	R0P97A 0D1	Factory Integrated	36
14	P1F60A	HPE Inside Unpack/Clean Up XL SVC	1
15	HA124A1	HPE Technical Installation Startup SVC	1
16	HA124A1 5SY	HPE Startup Primera 600 4N Base Fld SVC	1
17	HA124A1 5Q3	HPE Startup Primera 600 Drv Enc Fld SVC	2
18	HA124A1 5R5	HPE Startup Primera 600 Base SW SVC	1
19	H0JD6A1	HPE Storage SSD Extended Replacement SVC	72
20	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
21	HT7A6A3 Z0A	HPE Primera 600 4-way Storage Base Supp	1
22	HT7A6A3 WSF	HPE Internal Entitlement Support	1
23	HT7A6A3 Z0D	HPE Primera A650/C650 4N Controller Supp	1
24	HT7A6A3 Z0J	HPE Primera 600 2U24 SFF Enclosure Supp	2
25	HT7A6A3 Z0N	HPE Primera 600 4p 32Gb FC HBA Support	4
26	HT7A6A3 Z0U	HPE Primera 600 7.68TB SFF SSD Support	72
27	R1P30AAE	HPE Primera 630/650/670 Software E-Media Kit	1

B.3.6 Primera A650-4N 72x4TB SSD

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
A650 – 288TB RAW			
1	N9Z47A	HPE Primera 600 4-way Storage Base	1
2	N9Z61A	HPE Primera A650 4-node Controller	1
3	N9Z61A 0D1	Factory Integrated	1
4	R0P96A	HPE Primera 600 3.84TB SAS SFF (2.5in) SSD	36
5	R0P96A 0D1	Factory Integrated	36
6	N9Z39A	HPE Primera 600 32Gb 4-port Fibre Channel Host Bus Adapter	4
7	N9Z39A 0D1	Factory Integrated	4
8	716195-B21	HPE External 1.0m (3ft) Mini-SAS HD 4x to Mini-SAS HD 4x Cable	8
9	716195-B21 0D1	Factory Integrated	8
10	581817-B21	HPE Configurator Defined Build Instruction Option	1
11	N9Z50A	HPE Primera 600 2U 24-disk SFF Drive Enclosure	2
12	R0P96A	HPE Primera 600 3.84TB SAS SFF (2.5in) SSD	36
13	R0P96A 0D1	Factory Integrated	36
14	P1F60A	HPE Inside Unpack/Clean Up XL SVC	1
15	HA124A1	HPE Technical Installation Startup SVC	1
16	HA124A1 5SY	HPE Startup Primera 600 4N Base Fld SVC	1
17	HA124A1 5Q3	HPE Startup Primera 600 Drv Enc Fld SVC	2
18	HA124A1 5R5	HPE Startup Primera 600 Base SW SVC	1
19	H0JD6A1	HPE Storage SSD Extended Replacement SVC	72
20	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
21	HT7A6A3 Z0A	HPE Primera 600 4-way Storage Base Supp	1
22	HT7A6A3 WSF	HPE Internal Entitlement Support	1
23	HT7A6A3 Z0D	HPE Primera A650/C650 4N Controller Supp	1
24	HT7A6A3 Z0J	HPE Primera 600 2U24 SFF Enclosure Supp	2
25	HT7A6A3 Z0N	HPE Primera 600 4p 32Gb FC HBA Support	4
26	HT7A6A3 Z0T	HPE Primera 600 3.84TB SFF SSD Support	72
27	R1P30AAE	HPE Primera 630/650/670 Software E-Media Kit	1

B.3.7 Option for HPE 3PAR 8000: Disk Shelf Expansion 16 x 1.92TB SSD

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
3Par 8000 –30.72TB RAW			
1	K2P89B	HPE 3PAR 8000 1.92TB SAS SFF (2.5in) SSD with All-inclusive Single-system Software	16
2	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
3	HT7A6A3 WSF	HPE Internal Entitlement Support	1
4	HT7A6A3 X8J	HPE 3PAR 8000 1.92TB+SW SFF SSD Supp	16
5	HA124A1	HPE Technical Installation Startup SVC	1
6	HA124A1 5Y0	HPE Startup 3PAR 8K Fld Drv-Drv Enc SVC	2
7	H0JD6A1	HPE Storage SSD Extended Replacement SVC	16
8	L7E73AAE	HPE 3PAR 8200 Transition AI SW E-LTU	1

B.3.8 Option for HPE 3PAR 8000: Disk Shelf Expansion 8 x 1.92TB SSD

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
3Par 8000 –15.26TB RAW			
1	K2P89B	HPE 3PAR 8000 1.92TB SAS SFF (2.5in) SSD with All-inclusive Single-system Software	8
2	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
3	HT7A6A3 WSF	HPE Internal Entitlement Support	1
4	HT7A6A3 X8J	HPE 3PAR 8000 1.92TB+SW SFF SSD Supp	8
5	HA124A1	HPE Technical Installation Startup SVC	1
6	HA124A1 5Y0	HPE Startup 3PAR 8K Fld Drv-Drv Enc SVC	2
7	H0JD6A1	HPE Storage SSD Extended Replacement SVC	8
8	L7E73AAE	HPE 3PAR 8200 Transition AI SW E-LTU	1

B.4 Midrange Unified Storage (NetApp)**B.4.1 AFF A300 HA System P95**

#	Item	Part Number	Specification	Quantity of sub-elements needed for full Configuration
			AFF A300 HA System	1
1		AFF-A300A-001	AFF A300 HA System, FlashBundle	2
2	Cables	X6566B-2-R6-C	Cable, Direct Attach CU SFP+ 10G,2M,-C	2
3	Cables	X66250-2-C	Cable,LC-LC,OM4,2m,-C	8
4	Cables	X66034A-C	Cable,12Gb,Mini SAS HD to HD,5m,-C	4
5		X6235-C	Chassis,FAS8200,AFF-A300,AC PS,-C	1
6		DOC-AFF-A300-C	Documents,AFF-A300,-C	1
7		X6596-R6-C	SFP+ FC Optical 16Gb,-C	8
8		X5526A-R6-C	Rackmount Kit,4-Post,Universal,-C,R6	1
9		X5515A-R6-C	Rackmount Kit,4N2,DS14-Middle,-C,R6	1
10		X800-42U-R6-C	Cabinet Component Power Cable,-C,R6	4
11		ALL-FLASH-OPTIMIZED	Optimized SSD Personality	1
12		DS224C-AF-15.3-24S-0	SSD SHLF,AFF,12G,24x15.3TB,0P,-C	1
13		SW-2-CL-BASE	SW-2,Base,CL,Node 1 0,00 0% 0,00	1
14		SW-2-A300A-TPM-C	SW, Trusted Platform Module Enabled,A300A,-C	2
15		DATA-AT-REST-ENCRYPT	Data at Rest Encryption Capable Operating Sys	2

16		SW-FLASH-PREM-BNDL-U	ONTAP, Per- 0.1TB,FlashBundle,UHC-U-Perf,- C	3672
17		CS-SEC-NBD-VA	SupportEdge Secure Next Bus Day Onsite,VA	1
18		CS-NRD2-Y	Non Returnable Disk Plus,y	1

B.4.2 AFF A300 HA System

#	Item	Part Number	Specification	Quantity of sub-elements needed for full Configuration
			AFF A300 HA System	1
1		AFF-A300A-001	AFF A300 HA System,FlashBundle	2
2	Cables	X6566B-2-R6-C	Cable, Direct Attach CU SFP+10G,2M,-C	2
3	Cables	X66250-2-C	Cable,LC-LC,OM4,2m,-C	8
4	Cables	X66034A-C	Cable,12Gb,Mini SAS HD to HD,5m,-C	4
5		X6235-C	Chassis,FAS8200,AFF-A300,AC PS,-C	1
6		DOC-AFF-A300-C	Documents,AFF-A300,-C	1
7		X6596-R6-C	SFP+ FC Optical 16Gb,-C	8
8		X5526A-R6-C	Rackmount Kit,4-Post,Universal,-C,R6	1
9		X5515A-R6-C	Rackmount Kit,4N2,DS14-Middle,-C,R6	1
10		X800-42U-R6-C	Cabinet Component Power Cable,-C,R6	4
11		ALL-FLASH-OPTIMIZED	Optimized SSD Personality	1
12		DS224C-AF-15.3-24S-0	SSD SHLF,AFF,12G,24x15.3TB,0P,-C	1
13		SW-2-CL- BASE	SW-2,Base,CL,Node 1 0,00 0% 0,00	1
14		SW-2-A300A-TPM-C	SW, Trusted Platform Module Enabled,A300A,-C	2
15		DATA-AT-REST-ENCRYPT	Data at Rest Encryption Capable Operating Sys	2
16		SW-FLASH-PREM-BNDL- U	ONTAP, Per- 0.1TB,FlashBundle,UHC-U-Perf,-C	3672
17		CS-SEC-NBD-VA	SupportEdge Secure Next Bus Day Onsite,VA	1
18		CS-NRD2-Y	Non Returnable Disk Plus,y	1

B.4.3 NetApp Spare parts, services and accessories

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1	AFF-A220-113-C	AFF A220,12X30.6TB SSD,-C	
2	AFF-A220-114-C	AFF A220,24X30.6TB SSD,-C	
3	AFF-A220A-UG-001	AFF A220 HA System,UG,Flash Bundle,CNA	
4	AFF-A220A-UG-002	AFF A220 HA System,UG,Flash Bundle,RJ45	
5	CS-G1-ADVISOR-UPGRADE	SupportEdge Advisor Upgrade	
6	CS-G1-EXPERT-UPGRADE	SupportEdge Expert Upgrade	
7	CS-G1-PARTNER-UPGRADE-P-R	SupportEdge PartnerSelect Upgrade	
8	CS-NRD-REINSTATEMENT	Reinstatement fee, Non-Return Drive Service	
9	CS-SYSTEM-SUPPORT-REINST	Reinstatement fee for lapsed Support	
10	DS212C-07-16-12B-2P-C	Disk Shelf,12G,12x16TB,7.2K,2P,-C	
11	DS212C-07-16-12B-2P-CQ	Disk Shelf,12G,12x16TB,7.2K,2P,CQ	
12	DS212C-07-16-12B-N-C	Disk Shelf,12G,12x16TB,7.2K,-C	
13	DS212C-07-16-12B-N-CQ	Disk Shelf,12G,12x16TB,7.2K,CQ	

14	DS212C-07-16-12B-QS	Disk Shelf, 12G, 12x16TB, 7.2K, -QS	
15	DS212C-07-16-12B-QS-N	Disk Shelf, 12G, 12x16TB, 7.2K, -QS	
16	DS212C-07-16-12B-SK	Disk Shelf, 12G, 12x16TB, 7.2K, -SK	
17	DS460C-07-16.0-30B-2P-C	Disk Shelf, 12G, 30x16TB, 7.2K, 2P, -C	
18	DS460C-07-16.0-30B-2P-CQ	Disk Shelf, 12G, 30x16TB, 7.2K, 2P, CQ	
19	DS460C-07-16.0-30B-N-C	Disk Shelf, 12G, 30x16TB, 7.2K, -C	
20	DS460C-07-16.0-30B-N-CQ	Disk Shelf, 12G, 30x16TB, 7.2K, CQ	
21	DS460C-07-16.0-30B-QS	Disk Shelf, 12G, 30x16TB, 7.2K, -QS	
22	DS460C-07-16.0-30B-QS-N	Disk Shelf, 12G, 30x16TB, 7.2K, -QS	
23	DS460C-07-16.0-30B-SK	Disk Shelf, 12G, 30x16TB, 7.2K, -SK	
24	DS460C-07-16.0-60B-2P-C	Disk Shelf, 12G, 60x16TB, 7.2K, 2P, -C	
25	DS460C-07-16.0-60B-2P-CQ	Disk Shelf, 12G, 60x16TB, 7.2K, 2P, CQ	
26	DS460C-07-16.0-60B-N-C	Disk Shelf, 12G, 60x16TB, 7.2K, -C	
27	DS460C-07-16.0-60B-N-CQ	Disk Shelf, 12G, 60x16TB, 7.2K, CQ	
28	DS460C-07-16.0-60B-QS	Disk Shelf, 12G, 60x16TB, 7.2K, -QS	
29	DS460C-07-16.0-60B-QS-N	Disk Shelf, 12G, 60x16TB, 7.2K, -QS	
30	DS460C-07-16.0-60B-SK	Disk Shelf, 12G, 60x16TB, 7.2K, -SK	
31	E-X4129C	SSD, 15.3TB, 12Gb, Non-FDE, DE224C	
32	E-X4129C-0E-C	SSD, 15.3TB, 12Gb, Non-FDE, DE224C, 0E, -C	
33	E-X4129C-12-QS	SSD, 12x15.3TB, 12Gb, Non-FDE, DE224C, QS	
34	E-X4129C-AD-C	SSD, 15.3TB, 12Gb, Non-FDE, DE224C, Add, -C	
35	E-X4133B	SSD, 7.6TB, 12Gb, Non-FDE, DE224C	
36	E-X4133B-0E-C	SSD, 7.6TB, 12Gb, Non-FDE, DE224C, 0E, -C	
37	E-X4133B-12-QS	SSD, 12x7.6TB, 12Gb, Non-FDE, DE224C, QS	
38	E-X4133B-AD-C	SSD, 7.6TB, 12Gb, Non-FDE, DE224C, Add, -C	
39	E-X4142B	SSD, 15.3TB, 12Gb, FDE, DE224C	
40	E-X4142B-0E-C	SSD, 15.3TB, 12Gb, FDE, DE224C, 0E, -C	
41	E-X4142B-12-QS	SSD, 12x15.3TB, 12Gb, FDE, DE224C, QS	
42	E-X4142B-AD-C	SSD, 15.3TB, 12Gb, FDE, DE224C, Add, -C	
43	E-X4144A	DSK DRV, 16TB, 7.2k, 12Gb, Non-FDE, DE460C	
44	E-X4144A-10-QS	DSK DRV, 10x16TB, 7.2k, 12Gb, Non-FDE, DE460C, QS	
45	E-X4144A-AD-C	DSK DRV, 16TB, 7.2k, 12Gb, Non-FDE, DE460C, Add, -C	
46	E-X4144A-C	DSK DRV, 16TB, 7.2k, 12Gb, Non-FDE, DE460C, -C	
47	E-X4145A	DSK DRV, 16TB, 7.2k, 12Gb, Non-FDE, DE212C	
48	E-X4145A-12-QS	DSK DRV, 12x16TB, 7.2k, 12Gb, Non-FDE, DE212C, QS	
49	E-X4145A-AD-C	DSK DRV, 16TB, 7.2k, 12Gb, Non-FDE, DE212C, Add, -C	
50	E-X4145A-C	DSK DRV, 16TB, 7.2k, 12Gb, Non-FDE, DE212C, -C	
51	FAS2720-115-C	FAS2720, 12x16TB, 7.2K, -C	
52	FAS2720-116-C	FAS2720, 4x960GB SSD, 8x16TB, Mixed, -C	
53	FAS2720-117-C	FAS2720, 4x3.8TB SSD, 8x16TB, Mixed, -C	
54	H600-NIC-1/10GbE-I	NIC, 2-Port, 1/10GbE, RJ45, H600C, Intel	
55	H600-NIC-10/25GbE-M	NIC, 2-Port, 10/25GbE, SFP28, H600C, Mellanox	
56	FAS2720A-EXP-100	FAS2720, HA, 12X4TB, Base Bundle, NVE RJ45	
57	FAS2720A-EXP-101	FAS2720, HA, 12X4TB, Premium Bundle, NVE RJ45	
58	FAS2720A-EXP-104	FAS2720, HA, 12X4TB, Base Bundle, NVE CNA	
59	FAS2720A-EXP-105	FAS2720, HA, 12X4TB, Premium Bundle, NVE CNA	
60	SUBS-MAXRECVRY-VCPU-12MO	Subscription, MAXRecovery, vCPU, 12M	
61	SUBS-MAXRECVRY-VCPU-36MO	Subscription, MAXRecovery, vCPU, 36M	
62	AFF-A220-100-C	AFF A220, 12X960GB SSD, -C	
63	AFF-A220-101-C	AFF A220, 24X960GB SSD, -C	
64	AFF-A220-102-C	AFF A220, 12X3.8TB SSD, -C	
65	AFF-A220-103-C	AFF A220, 24X3.8TB SSD, -C	
66	AFF-A220-104-C	AFF A220, 12X3.8TB NSE SSD, -C	
67	AFF-A220-105-C	AFF A220, 24X3.8TB NSE SSD, -C	
68	AFF-A220-106-C	AFF A220, 12X7.6TB SSD, -C	
69	AFF-A220-107-C	AFF A220, 24X7.6TB SSD, -C	
70	AFF-A220-108-C	AFF A220, 12X15.3TB SSD, -C	
71	AFF-A220-109-C	AFF A220, 24X15.3TB SSD, -C	
72	AFF-A220-111-C	AFF A220, 12X960GB SSD, NSE, -C	
73	AFF-A220-112-C	AFF A220, 24X960GB SSD, NSE, -C	
74	AFF-A220-113-C	AFF A220, 12X30.6TB SSD, -C	
75	AFF-A220-114-C	AFF A220, 24X30.6TB SSD, -C	
76	AFF-A220A-001	AFF A220 HA System, BASE Bundle, CNA	
77	AFF-A220A-001-SC	AFF A220A Base Bundle	

78	AFF-A220A-002	AFF A220 HA System,Flash Bundle,CNA	
79	AFF-A220A-002-SC	AFF A220A Flash Bundle	
80	AFF-A220A-003	AFF A220 HA System, BASE Bundle,RJ45	
81	AFF-A220A-004	AFF A220 HA System,Flash Bundle,RJ45	
82	AFF-A220A-005	AFF A220 HA System,All SAN Array Bundle,CNA	
83	AFF-A220A-EXP-100	AFF A220,HA,12X960GB SSD,Base Bundle,NVE	
84	AFF-A220A-EXP-101	AFF A220,HA,12X960GB SSD,Flash Bundle,NVE	
85	AFF-A220A-EXP-102	AFF A220,HA,24X960GB SSD,Base Bundle,NVE	
86	AFF-A220A-EXP-103	AFF A220,HA,24X960GB SSD,Flash Bundle,NVE	
87	AFF-A220A-EXP-104	AFF A220,HA,12X960GB SSD,Base Bundle,Non-NVE	
88	AFF-A220A-EXP-105	AFF A220,HA,12X960GB SSD,Flash Bundle,Non-NVE	
89	AFF-A220A-EXP-106	AFF A220,HA,24X960GB SSD,Base Bundle,Non-NVE	
90	AFF-A220A-EXP-107	AFF A220,HA,24X960GB SSD,Flash Bundle,Non-NVE	
91	AFF-A220A-EXP-108	AFF A220,HA,12X3.8TB SSD,Base Bundle,NVE	
92	AFF-A220A-EXP-109	AFF A220,HA,12X3.8TB SSD,Flash Bundle,NVE	
93	AFF-A220A-EXP-110	AFF A220,HA,24X3.8TB SSD,Base Bundle,NVE	
94	AFF-A220A-EXP-111	AFF A220,HA,24X3.8TB SSD,Flash Bundle,NVE	
95	AFF-A220A-PACK-114	AFF-A220,HA,12X3.8TB SSD,Flash Bundle,Non-NVE	
96	AFF-A220A-PACK-115	AFF-A220,HA,24X3.8TB SSD,Flash Bundle,Non-NVE	
97	AFF-A220A-UG-001	AFF A220 HA System,UG,Flash Bundle,CNA	
98	AFF-A220A-UG-002	AFF A220 HA System,UG,Flash Bundle,RJ45	
99	AFF-A300A-001	AFF A300 HA System,FlashBundle	
100	AFF-A300A-001-SC	AFF A300A Premium Bundle	
101	AFF-A300A-002	AFF A300A Base Bundle	
102	AFF-A320A-001	AFF A320 HA System,BaseBundle	
103	AFF-A320A-002	AFF A320 HA System,FlashBundle	
104	AFF-A400A-003	AFF-A400 HA System,Ethernet Bundle	
105	AFF-A400A-004	AFF-A400 HA System,FC Bundle	
106	AFF-A400A-005	AFF-A400 HA System,ASA,Ethernet Bundle	
107	AFF-A400A-006	AFF-A400 HA System,ASA,FC Bundle	
108	AFF-A700A-001	AFF A700 HA System,Base Bundle	
109	AFF-A700A-002	AFF A700 HA System,FlashBundle	
110	AFF-A700A-003	AFF A700 HA System,All SAN Array Bundle	
111	AFF-A700A-200-C	AFF A700,SA,CTL,Encl,AC PS,40G,SAS,-C	
112	AFF-A700A-201-C	AFF A700,HA,CTL,Encl,AC PS,40G,SAS,-C	
113	AFF-A700S-001	AFF A700s System,Base Bundle	
114	AFF-A700S-002	AFF A700s System,FlashBundle	
115	AFF-A700S-100-C	AFF A700s,HA,24x960GB,40GbE,SAS,-C	
116	AFF-A700S-101-C	AFF A700s,HA,24x960GB,40GbE,32FC,SAS,-C	
117	AFF-A700S-102-C	AFF A700s,HA,12x3.8TB,40GbE,SAS,-C	
118	AFF-A700S-103-C	AFF A700s,HA,12x3.8TB,40GbE,32FC,SAS,-C	
119	AFF-A700S-104-C	AFF A700s,HA,24x3.8TB,40GbE,SAS,-C	
120	AFF-A700S-105-C	AFF A700s,HA,24x3.8TB,40GbE,32FC,SAS,-C	
121	AFF-A700S-106-C	AFF A700s,HA,12x3.8TB,NSE,40GbE,SAS,-C	
122	AFF-A700S-107-C	AFF A700s,HA,12x3.8TB,NSE,40GbE,32FC,SAS,-C	
123	AFF-A700S-108-C	AFF A700s,HA,24x3.8TB,NSE,40GbE,SAS,-C	
124	AFF-A700S-109-C	AFF A700s,HA,24x3.8TB,NSE,40GbE,32FC,SAS,-C	
125	AFF-A700S-110-C	AFF A700s,HA,12x15.3TB,40GbE,SAS,-C	
126	AFF-A700S-111-C	AFF A700s,HA,12x15.3TB,40GbE,32FC,SAS,-C	
127	AFF-A700S-112-C	AFF A700s,HA,24x15.3TB,40GbE,SAS,-C	
128	AFF-A700S-113-C	AFF A700s,HA,24x15.3TB,40GbE,32FC,SAS,-C	
129	AFF-A700S-114-C	AFF A700s,HA,24x960GB,40GbE,16FC,SAS,-C	
130	AFF-A700S-115-C	AFF A700s,HA,12x3.8TB,40GbE,16FC,SAS,-C	
131	AFF-A700S-116-C	AFF A700s,HA,24x3.8TB,40GbE,16FC,SAS,-C	
132	AFF-A700S-117-C	AFF A700s,HA,12x3.8TB,NSE,40GbE,16FC,SAS,-C	
133	AFF-A700S-118-C	AFF A700s,HA,24x3.8TB,NSE,40GbE,16FC,SAS,-C	
134	AFF-A700S-119-C	AFF A700s,HA,12x15.3TB,40GbE,16FC,SAS,-C	
135	AFF-A700S-120-C	AFF A700s,HA,24x15.3TB,40GbE,16FC,SAS,-C	
136	AFF-A700S-121-C	AFF A700s,HA,12x7.6TB,40GbE,SAS,-C	
137	AFF-A700S-122-C	AFF A700s,HA,24x7.6TB,40GbE,SAS,-C	
138	AFF-A700S-123-C	AFF A700s,HA,12x7.6TB,40GbE,16FC,SAS,-C	
139	AFF-A700S-124-C	AFF A700s,HA,24x7.6TB,40GbE,16FC,SAS,-C	
140	AFF-A700S-125-C	AFF A700s,HA,12x7.6TB,40GbE,32FC,SAS,-C	
141	AFF-A700S-126-C	AFF A700s,HA,24x7.6TB,40GbE,32FC,SAS,-C	
142	AFF-A700S-127-C	AFF A700s,HA,12x30.6TB,40GbE,SAS,-C	
143	AFF-A700S-128-C	AFF A700s,HA,24x30.6TB,40GbE,SAS,-C	
144	AFF-A700S-129-C	AFF A700s,HA,12x30.6TB,40GbE,32FC,SAS,-C	

145	AFF-A700S-130-C	AFF A700s,HA,24x30.6TB,40GbE,32FC,SAS,-C	
146	AFF-A700S-131-C	AFF A700s,HA,12x30.6TB,40GbE,16FC,SAS,-C	
147	AFF-A700S-132-C	AFF A700s,HA,24x30.6TB,40GbE,16FC,SAS,-C	
148	AFF-A800-100-C	AFF A800,HA,CTL,Encl,AC PS,100G,-C	
149	AFF-A800A-001	AFF A800 HA System, BASE Bundle	
150	AFF-A800A-002	AFF A800 HA System,FlashBundle	
151	AFF-C190A-002-SC	AFF-C190A Flash Bundle	
152	AFF-C190A-PACK-100	AFF C190,HA,8X960GB,Flash Bundle,NVE UTA	
153	AFF-C190A-PACK-101	AFF C190,HA,8X960GB,Flash Bundle,NVE RJ45	
154	AFF-C190A-PACK-102	AFF C190,HA,12X960GB,Flash Bundle,NVE UTA	
155	AFF-C190A-PACK-103	AFF C190,HA,12X960GB,Flash Bundle,NVE RJ45	
156	AFF-C190A-PACK-104	AFF C190,HA,18X960GB,Flash Bundle,NVE UTA	
157	AFF-C190A-PACK-105	AFF C190,HA,18X960GB,Flash Bundle,NVE RJ45	
158	AFF-C190A-PACK-106	AFF C190,HA,24X960GB,Flash Bundle,NVE UTA	
159	AFF-C190A-PACK-107	AFF C190,HA,24X960GB,Flash Bundle,NVE RJ45	
160	AFF-C190A-PACK-108	AFF C190,HA,8X960GB,Flash Bundle,Non-NVE UTA	
161	AFF-C190A-PACK-109	AFF C190,HA,12X960GB,Flash Bundle,Non-NVE UTA	
162	AFF-C190A-PACK-110	AFF C190,HA,18X960GB,Flash Bundle,Non-NVE UTA	
163	AFF-C190A-PACK-111	AFF C190,HA,24X960GB,Flash Bundle,Non-NVE UTA	

B.5 Midrange&High-End Storage Dell-EMC PowerStore NVMe SSD

B.5.1 Dell-EMC PowerStore 5000T NVME All-Flash (3.84TB NVMe SSD)– 80TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerStore 5000T – 80TB RAW			
1	[210-ASTS], [343-BBMR]	PowerStore 5000T Base Dell Customer Racked	1
2	[370-AEZR]	1152GB Appliance DIMM (576GB Per Node)	1
3	[400-BGGM]	3.84TB NVMe SSD	21
4	[800-BBQV]	Clustered Storage	1
5	[406-BBON]	10GBASE-T 4 Port Card Pair	1
6	[565-BBJP]	16GB FC 4 Port IO Module Pair	1
7	[450-AIOM]	Dual 1800W (200-240V) Power Supply, includes C13/C14 Power Cords	1
8	[528-BTZK]	PowerStore Base SW	1
9	[800-BBQV]	No Selection	1
10	[709-BBKK]	Parts Only Warranty 12Months, 12 Month(s)	1
11	[865-BBYM], [865-BBYN]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
12	[711-BBCI]	Keep Your Hard Drive, 60 Month(s)	1
13	[683-23407], [706-12528]	ProDeploy Plus for PowerStore 5xxx T	1
14	[210-ATXO]	AppSync for PowerStore	1
15	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1
16	[528-BYHF]	AppSync Str Pk for PowerStore	1
17	[821-21948]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support Contract	1
18	[487-11924]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support/Maintenance	1

B.5.2 Dell-EMC PowerStore 5000T NVME All-Flash (7.68TB NVMe SSD)– 100TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerStore 5000T – 100TB RAW			
1	[210-ASTS], [343-BBMR]	PowerStore 5000T Base Dell Customer Racked	1
2	[370-AEZR]	1152GB Appliance DIMM (576GB Per Node)	1
3	[400-BGGP]	7.68TB NVMe SSD	13
4	[800-BBQV]	Clustered Storage	1
5	[406-BBON]	10GBASE-T 4 Port Card Pair	1
6	[565-BBJP]	16GB FC 4 Port IO Module Pair	1
7	[450-AIOM]	Dual 1800W (200-240V) Power Supply, includes C13/C14 Power Cords	1
8	[528-BTZK]	PowerStore Base SW	1
9	[800-BBQV]	No Selection	1
10	[709-BBKK]	Parts Only Warranty 12Months, 12 Month(s)	1
11	[865-BBYM], [865-BBYN]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
12	[711-BBCI]	Keep Your Hard Drive, 60 Month(s)	1
13	[683-23407], [706-12528]	ProDeploy Plus for PowerStore 5xxx T	1
14	[210-ATXO]	AppSync for PowerStore	1
15	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1
16	[528-BYHF]	AppSync Str Pk for PowerStore	1
17	[821-21948]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support Contract	1
18	[487-11924]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support/Maintenance	1

B.5.3 Dell-EMC PowerStore 5000T NVME All-Flash (7.68TB NVMe SSD)– 160TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerStore 5000T – 160TB RAW			
1	[210-ASTS], [343-BBMR]	PowerStore 5000T Base Dell Customer Racked	1
2	[370-AEZR]	1152GB Appliance DIMM (576GB Per Node)	1
3	[400-BGGP]	7.68TB NVMe SSD	21
4	[800-BBQV]	Clustered Storage	1
5	[406-BBON]	10GBASE-T 4 Port Card Pair	1
6	[565-BBJP]	16GB FC 4 Port IO Module Pair	1
7	[450-AIOM]	Dual 1800W (200-240V) Power Supply, includes C13/C14 Power Cords	1
8	[528-BTZK]	PowerStore Base SW	1
9	[800-BBQV]	No Selection	1
10	[709-BBKK]	Parts Only Warranty 12Months, 12 Month(s)	1
11	[865-BBYM], [865-BBYN]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
12	[711-BBCI]	Keep Your Hard Drive, 60 Month(s)	1
13	[683-23407], [706-12528]	ProDeploy Plus for PowerStore 5xxx T	1
14	[210-ATXO]	AppSync for PowerStore	1
15	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1

16	[528-BYHF]	AppSync Str Pk for PowerStore	1
17	[821-21948]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support Contract	1
18	[487-11924]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support/Maintenance	1

B.5.4 Dell-EMC PowerStore 5000T NVME All-Flash (15.36TB NVMe SSD)– 200TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerStore 5000T – 200TB RAW			
1	[210-ASTS], [343-BBMR]	PowerStore 5000T Base Dell Customer Racked	1
2	[370-AEZR]	1152GB Appliance DIMM (576GB Per Node)	1
3	[400-BGGK]	15.36 NVMe SSD	13
4	[800-BBQV]	Clustered Storage	1
5	[406-BBON]	10GBASE-T 4 Port Card Pair	1
6	[565-BBJP]	16GB FC 4 Port IO Module Pair	1
7	[450-AIOM]	Dual 1800W (200-240V) Power Supply, includes C13/C14 Power Cords	1
8	[528-BTZK]	PowerStore Base SW	1
9	[800-BBQV]	No Selection	1
10	[709-BBKK]	Parts Only Warranty 12Months, 12 Month(s)	1
11	[865-BBYM], [865-BBYN]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
12	[711-BBCI]	Keep Your Hard Drive, 60 Month(s)	1
13	[683-23407], [706-12528]	ProDeploy Plus for PowerStore 5xxx T	1
14	[210-ATXO]	AppSync for PowerStore	1
15	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1
16	[528-BYHF]	AppSync Str Pk for PowerStore	1
17	[821-21948]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support Contract	1
18	[487-11924]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support/Maintenance	1

B.5.5 Dell-EMC PowerStore 5000T NVME All-Flash (15.36TB NVMe SSD)– 322TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerStore 5000T – 322TB RAW			
1	[210-ASTS], [343-BBMR]	PowerStore 5000T Base Dell Customer Racked	1
2	[370-AEZR]	1152GB Appliance DIMM (576GB Per Node)	1
3	[400-BGGK]	15.36 NVMe SSD	21
4	[800-BBQV]	Clustered Storage	1
5	[406-BBON]	10GBASE-T 4 Port Card Pair	1
6	[565-BBJP]	16GB FC 4 Port IO Module Pair	1
7	[450-AIOM]	Dual 1800W (200-240V) Power Supply, includes C13/C14 Power Cords	1
8	[528-BTZK]	PowerStore Base SW	1
9	[800-BBQV]	No Selection	1
10	[709-BBKK]	Parts Only Warranty 12Months, 12 Month(s)	1
11	[865-BBYM], [865-BBYN]	ProSupport and 4Hr Mission Critical, 60	1

		Month(s)	
12	[711-BBCI]	Keep Your Hard Drive, 60 Month(s)	1
13	[683-23407], [706-12528]	ProDeploy Plus for PowerStore 5xxx T	1
14	[210-ATXO]	AppSync for PowerStore	1
15	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1
16	[528-BYHF]	AppSync Str Pk for PowerStore	1
17	[821-21948]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support Contract	1
18	[487-11924]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support/Maintenance	1

B.5.6 Dell-EMC PowerStore 7000T NVME All-Flash (15.36TB NVMe SSD)– 320TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerStore 7000T – 320TB RAW			
1	[210-ASVI], [343-BBMR]	PowerStore 7000T Base Dell Customer Racked	1
2	[370-AEVS]	1536GB Appliance DIMM (768GB Per Node)	1
3	[400-BGGK]	15.36TB NVMe SSD	21
4	[800-BBQV]	Clustered Storage	1
5	[528-BTZK]	PowerStore Base SW	1
6	[406-BBON]	10GBASE-T 4 Port Card Pair	1
7	[565-BBJP]	16GB FC 4 Port IO Module Pair	1
8	[450-AION]	Dual 2100W (200-240V) Power Supply, includes C19/C20 Power Cords	1
9	[800-BBQV]	No Selection	1
10	[709-BBKK]	Parts Only Warranty 12Months, 12 Month(s)	1
11	[683-23367], [706-12528]	ProDeploy Plus for PowerStore 7xxx T	1
12	[865-BBYM], [865-BBYN]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
13	[711-BBCI]	Keep Your Hard Drive, 60 Month(s)	1
14	[210-ATXO]	AppSync for PowerStore	1
15	[683-11930]	No Installation Service Selected (Contact Sales rep for more details)	1
16	[528-BYHF]	AppSync Str Pk for PowerStore	1
17	[821-21948]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support Contract	1
18	[487-11924]	5Y ProSupport Mission Critical for AppSync Starter Pack Software Support/Maintenance	1

B.6 High-End Storage –Dell-EMC PowerMax NVMe SSD

B.6.1 Dell-EMC PowerMax 2000 Essentials NVME All-Flash (1.92TB NVMe SSD)– 17TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
Powermax 2000 Essentials– 17TB RAW			
1	EH-VBBASE-KIT-3P	POWERMAX 2000 PB BASE INSTALL KIT 3P	1
2	EH-DE24	POWERMAX 2000 DIRECT 24 SLT DR ENCL	2

3	EH-PSNT-3Y-3P	POWERMAX 2000 SYS BAY1 3Y PSNT 3P	1
4	EH-VBF-1024	POWERMAX 2000 ESS BASE 1024GB	1
5	QNDN3192071	POWERMAX 2000 RAID5(7+1) 1.92TB	8
6	EH-CAPF	POWERMAX 2000 ESS CAPACITY	1
7	QNDN31920S1	POWERMAX 2000 1.92TB SPARE	1
8	EH-1600MOD	POWERMAX 2000 FLASH MOD 1600	2
9	SZID-11	SIZER ID DIGIT 11 TRACKING MODEL	100
10	SZID-10	SIZER ID DIGIT 10 TRACKING MODEL	99
11	SZID-9	SIZER ID DIGIT 9 TRACKING MODEL	2
12	SZID-8	SIZER ID DIGIT 8 TRACKING MODEL	99
13	SZID-7	SIZER ID DIGIT 7 TRACKING MODEL	4
14	SZID-6	SIZER ID DIGIT 6 TRACKING MODEL	3
15	SZID-5	SIZER ID DIGIT 5 TRACKING MODEL	6
16	SZID-4	SIZER ID DIGIT 4 TRACKING MODEL	3
17	SZID-3	SIZER ID DIGIT 3 TRACKING MODEL	8
18	SZID-2	SIZER ID DIGIT 2 TRACKING MODEL	100
19	SZID-1	SIZER ID DIGIT 1 TRACKING MODEL	2
20	EH-FE80000S	POWERMAX 2000 8MM 16G FC	1
21	EH-COMPRESS	POWERMAX 2000 HDW COMPRESSION	1
22	EHF-BEDIR	POWERMAX 2000 ESS DIR	1
23	EH-1024BASE9	POWERMAX 2000 BASE 1024GB L9	1
24	E-DRR	POWERMAX 2/8K DATA REDUCTION RESERVATION	3500
25	E-FXTL	FXTL TRACKING MODEL	1
26	E-OPROVISION	OPROVISION FACTOR TRACKING MODEL	13
27	WKPROFILE-BAL	VMAX VG WORKPROFILE BALANCED	1
28	EH-MGMT	EMBEDDED MANAGEMENT POWERMAX 2000 TRK	1
29	M-PSM-HW-020	PROSUPPORT 4HR/MC HARDWARE SUPPORT	1
30	M-KYHD-PMAX	KEEP YOUR HARD DRIVE FOR ENT POWERMAX	1
31	458-002-211	POWERMAX ESSENTIALS SUITE=IC	1
32	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
33	458-002-210	POWERMAX ESSENTIALS SUITE OS 1TB=CC	13
34	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
35	450-001-643	POWERMAX ESSENTIALS SUITE 1TB=CC	13
36	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
37	PS-PDP-P30VMAX	30DAYPOSTDEPLOYASSIST VMAX	1
38	CE-PDPSTRTC0001	1 TRAINING CREDIT VALID 1YR (PDP STR)	1700
39	PS-PDP-PMAX2DP	PDP FOR POWERMAX 2000	1
40	PSINST-ESRS	ZERO DOLLAR ESRS INSTALL	1
41	PS-PDPAD-PMAX2REIN	PDP ADDON, PMAX 2000 RACK INSTALL	1
42	458-002-212	POWERMAX 2000 APPSYNC STR PK-ESS=CC	1
43	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
44	PD FOR APPSYNC INSTALL 4 HOST	PD FOR APPSYNC INSTALL 4 HOST	1

B.6.2 Dell-EMC PowerMax 2000 Essentials NVME All-Flash (1.92&3.84 TB NVMe SSD)– 80TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
Powermax 2000 Essentials– 80TB RAW			

1	EH-VBBASE-KIT-3P	POWERMAX 2000 PB BASE INSTALL KIT 3P	1
2	EH-DE24	POWERMAX 2000 DIRECT 24 SLT DR ENCL	2
3	EH-PSNT-3Y-3P	POWERMAX 2000 SYS BAY1 3Y PSNT 3P	1
4	EH-VBF-1024	POWERMAX 2000 ESS BASE 1024GB	1
5	QNDN3192071	POWERMAX 2000 RAID5(7+1) 1.92TB	8
6	QNDN3384071	POWERMAX 2000 RAID5(7+1) 3.84TB	16
7	EH-CAPF	POWERMAX 2000 ESS CAPACITY	55
8	QNDN33840S1	POWERMAX 2000 3.84TB SPARE	1
9	EH-1600MOD	POWERMAX 2000 FLASH MOD 1600	2
10	EH-FE80000S	POWERMAX 2000 8MM 16G FC	1
11	EH-COMPRESS	POWERMAX 2000 HDW COMPRESSION	1
12	EHF-BEDIR	POWERMAX 2000 ESS DIR	1
13	EH-1024BASE9	POWERMAX 2000 BASE 1024GB L9	1
14	SZID-11	SIZER ID DIGIT 11 TRACKING MODEL	100
15	SZID-10	SIZER ID DIGIT 10 TRACKING MODEL	99
16	SZID-9	SIZER ID DIGIT 9 TRACKING MODEL	2
17	SZID-8	SIZER ID DIGIT 8 TRACKING MODEL	99
18	SZID-7	SIZER ID DIGIT 7 TRACKING MODEL	1
19	SZID-6	SIZER ID DIGIT 6 TRACKING MODEL	4
20	SZID-5	SIZER ID DIGIT 5 TRACKING MODEL	6
21	SZID-4	SIZER ID DIGIT 4 TRACKING MODEL	3
22	SZID-3	SIZER ID DIGIT 3 TRACKING MODEL	8
23	SZID-2	SIZER ID DIGIT 2 TRACKING MODEL	100
24	SZID-1	SIZER ID DIGIT 1 TRACKING MODEL	2
25	E-DRR	POWERMAX 2/8K DATA REDUCTION RESERVATION	3500
26	E-FXTL	FXTL TRACKING MODEL	1
27	E-OPROVISION	OPROVISION FACTOR TRACKING MODEL	13
28	WKPROFILE-BAL	VMAX VG WORKPROFILE BALANCED	1
29	EH-MGMT	EMBEDDED MANAGEMENT POWERMAX 2000 TRK	1
30	M-PSM-HW-020	PROSUPPORT 4HR/MC HARDWARE SUPPORT	1
31	M-KYHD-PMAX	KEEP YOUR HARD DRIVE FOR ENT POWERMAX	1
32	458-002-211	POWERMAX ESSENTIALS SUITE=IC	1
33	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
34	458-002-210	POWERMAX ESSENTIALS SUITE OS 1TB=CC	67
35	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
36	450-001-643	POWERMAX ESSENTIALS SUITE 1TB=CC	67
37	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
38	PS-PDP-P30VMAX	30DAYPOSTDEPLOYASSIST VMAX	1
39	CE-PDPSTRTC0001	1 TRAINING CREDIT VALID 1YR (PDP STR)	1700
40	PS-PDP-PMAX2DP	PDP FOR POWERMAX 2000	1
41	PSINST-ESRS	ZERO DOLLAR ESRS INSTALL	1
42	PS-PDPAD-PMAX2REIN	PDP ADDON, PMAX 2000 RACK INSTALL	1
43	458-002-212	POWERMAX 2000 APPSYNC STR PK-ESS=CC	67
44	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
45	PS-PD-APSYDP	PD FOR APPSYNC INSTALL 4 HOST	1

B.6.3 Dell-EMC PowerMax 2000 Min. Pro NVME All-Flash (1.92TB NVMe SSD)– 17TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
Powermax 2000 Min.Pro– 17TB RAW			
1	EH-VBBASE-KIT-3P	POWERMAX 2000 DIRECT 24 SLT DR ENCL	1
2	EH-DE24	POWERMAX 2000 SYS BAY1 3Y PSNT 3P	2
3	EH-PSNT-3Y-3P	POWERMAX 2000 PRO BASE 1024GB	1
4	EH-VBX-1024	POWERMAX 2000 RAID5(7+1) 1.92TB	1
5	QNDN3192071	POWERMAX 2000 PRO CAPACITY	8
6	EH-CAPX	POWERMAX 2000 1.92TB SPARE	1
7	QNDN31920S1	POWERMAX 2000 8MM 16G FC	1
8	EH-FE80000S	POWERMAX 2000 HDW COMPRESSION	1
9	EH-COMPRESS	SIZER ID DIGIT 11 TRACKING MODEL	1
10	SZID-11	SIZER ID DIGIT 10 TRACKING MODEL	100
11	SZID-10	SIZER ID DIGIT 9 TRACKING MODEL	99
12	SZID-9	SIZER ID DIGIT 8 TRACKING MODEL	3
13	SZID-8	SIZER ID DIGIT 7 TRACKING MODEL	99
14	SZID-7	SIZER ID DIGIT 6 TRACKING MODEL	4
15	SZID-6	SIZER ID DIGIT 5 TRACKING MODEL	3
16	SZID-5	SIZER ID DIGIT 4 TRACKING MODEL	6
17	SZID-4	SIZER ID DIGIT 3 TRACKING MODEL	3
18	SZID-3	SIZER ID DIGIT 2 TRACKING MODEL	8
19	SZID-2	SIZER ID DIGIT 1 TRACKING MODEL	100
20	SZID-1	POWERMAX 2000 FLASH MOD 1600	2
21	EH-1600MOD	POWERMAX 2000 PRO DIR	2
22	EHX-BEDIR	POWERMAX 2000 BASE 1024GB L9	1
23	EH-1024BASE9	POWERMAX 2/8K DATA REDUCTION RESERVATION	1
24	E-DRR	FXTL TRACKING MODEL	3500
25	E-FXTL	OPROVISION FACTOR TRACKING MODEL	1
26	E-OPROVISION	VMAX VG WORKPROFILE BALANCED	13
27	WKPROFILE-BAL	EMBEDDED MANAGEMENT POWERMAX 2000 TRK	1
28	EH-MGMT	PROSUPPORT 4HR/MC HARDWARE SUPPORT	1
29	M-PSM-HW-020	KEEP YOUR HARD DRIVE FOR ENT POWERMAX	1
30	M-KYHD-PMAX	POWERMAX PRO SUITE OS 1TB=CC	1
31	458-002-223	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	13
32	M-PSM-SW-020	POWERMAX PRO SUITE=IC	1
33	450-001-644	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
34	M-PSM-SW-020	POWERMAX PRO SUITE 1TB=CC	1
35	450-001-645	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	13
36	M-PSM-SW-020	30DAYPOSTDEPLOYASSIST VMAX	1
37	PS-PDP-P30VMAX	1 TRAINING CREDIT VALID 1YR (PDP STR)	1
38	CE-PDPSTRTC0001	PDP FOR POWERMAX 2000	1700
39	PS-PDP-PMAX2DP	ZERO DOLLAR ESRS INSTALL	1
40	PSINST-ESRS	PDP ADDON, PMAX 2000 RACK INSTALL	1
41	PS-PDPAD-PMAX2REIN	SRM FOR POWERMAX PRO=CC	1
42	458-002-312	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	13
43	M-PSM-SW-020	APPSYNC ADVANCED POWERMAX 2000- PRO=CC	1

44	458-002-321	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	13
45	M-PSM-SW-020	PD FOR APPSYNC INSTALL 4 HOST	1

B.6.4 Dell-EMC PowerMax 2000 Pro NVME All-Flash (1.92&3.84TB NVMe SSD)– 80TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
Powermax 2000 Pro– 80TB RAW			
1	EH-VBBASE-KIT-3P	POWERMAX 2000 PB BASE INSTALL KIT 3P	1
2	EH-DE24	POWERMAX 2000 DIRECT 24 SLT DR ENCL	2
3	EH-PSNT-3Y-3P	POWERMAX 2000 SYS BAY1 3Y PSNT 3P	1
4	EH-VBX-1024	POWERMAX 2000 PRO BASE 1024GB	1
5	QNDN3192071	POWERMAX 2000 RAID5(7+1) 1.92TB	8
6	QNDN3384071	POWERMAX 2000 RAID5(7+1) 3.84TB	16
7	EH-CAPX	POWERMAX 2000 PRO CAPACITY	55
8	QNDN33840S1	POWERMAX 2000 3.84TB SPARE	1
9	EH-1600MOD	POWERMAX 2000 FLASH MOD 1600	2
10	EH-FE80000S	POWERMAX 2000 8MM 16G FC	1
11	EH-COMPRESS	POWERMAX 2000 HDW COMPRESSION	1
12	EHX-BEDIR	POWERMAX 2000 PRO DIR	1
13	EH-1024BASE9	POWERMAX 2000 BASE 1024GB L9	1
14	SZID-11	SIZER ID DIGIT 11 TRACKING MODEL	100
15	SZID-10	SIZER ID DIGIT 10 TRACKING MODEL	99
16	SZID-9	SIZER ID DIGIT 9 TRACKING MODEL	3
17	SZID-8	SIZER ID DIGIT 8 TRACKING MODEL	99
18	SZID-7	SIZER ID DIGIT 7 TRACKING MODEL	1
19	SZID-6	SIZER ID DIGIT 6 TRACKING MODEL	4
20	SZID-5	SIZER ID DIGIT 5 TRACKING MODEL	6
21	SZID-4	SIZER ID DIGIT 4 TRACKING MODEL	3
22	SZID-3	SIZER ID DIGIT 3 TRACKING MODEL	8
23	SZID-2	SIZER ID DIGIT 2 TRACKING MODEL	100
24	SZID-1	SIZER ID DIGIT 1 TRACKING MODEL	2
25	E-DRR	POWERMAX 2/8K DATA REDUCTION RESERVATION	3500
26	E-FXTL	FXTL TRACKING MODEL	1
27	E-OPROVISION	OPROVISION FACTOR TRACKING MODEL	13
28	WKPROFILE-BAL	VMAX VG WORKPROFILE BALANCED	1
29	EH-MGMT	EMBEDDED MANAGEMENT POWERMAX 2000 TRK	1
30	M-PSM-HW-020	PROSUPPORT 4HR/MC HARDWARE SUPPORT	1
31	M-KYHD-PMAX	KEEP YOUR HARD DRIVE FOR ENT POWERMAX	1
32	458-002-223	POWERMAX PRO SUITE OS 1TB=CC	67
33	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
34	450-001-644	POWERMAX PRO SUITE=IC	1
35	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
36	450-001-645	POWERMAX PRO SUITE 1TB=CC	67
37	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
38	PS-PDP-P30VMAX	30DAYPOSTDEPLOYASSIST VMAX	1
39	CE-PDPSTRTC0001	1 TRAINING CREDIT VALID 1YR (PDP STR)	1700
40	PS-PDP-PMAX2DP	PDP FOR POWERMAX 2000	1
41	PSINST-ESRS	ZERO DOLLAR ESRS INSTALL	1

42	PS-PDPAD-PMAX2REIN	PDP ADDON, PMAX 2000 RACK INSTALL	1
43	458-002-312	SRM FOR POWERMAX PRO=CC	67
44	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
45		APPSYNC ADVANCED POWERMAX 2000-PRO=CC	67
46		PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
47		PD FOR APPSYNC INSTALL 4 HOST	1
48	458-002-348	POWERPATH FOR POWERMAX PRO=IC	1
49	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1

B.6.5 Dell-EMC PowerMax 8000 Essentials NVME All-Flash (3.84TB NVMe SSD)– 96TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
Powermax 8000 Essentials – 96TB RAW			
1	EZ-VB1KIT-3P	POWERMAX 8000 PB 1 INSTALL KIT 3P	1
2	EZ-DE24	POWERMAX 8000 DIRECT 24 SLT DR ENCL	2
3	EZ-PSNT-3Y-3P	POWERMAX 8000 SYS BAY1 3Y PSNT 3P	1
4	EZ-2UF-UFD-3P	POWERMAX 8000 2U FILLER PANEL KIT 3P	15
5	EZ-VBF-2048	POWERMAX 8000 ESS BASE 2048GB	1
6	SNDN3384071	POWERMAX 8000 RAID5(7+1) 3.84TB	24
7	EZ-CAPF	POWERMAX 8000 ESS CAPACITY	26
8	SNDN33840S1	POWERMAX 8000 3.84TB SPARE	1
9	EZ-1600MOD	POWERMAX 8000 FLASH MOD 1600	4
10	EZ-FE80000S	POWERMAX 8000 8MM 16G FC	1
11	EZ-COMPRESS	POWERMAX 8000 HDW COMPRESSION	1
12	SZID-11	SIZER ID DIGIT 11 TRACKING MODEL	100
13	SZID-10	SIZER ID DIGIT 10 TRACKING MODEL	99
14	SZID-9	SIZER ID DIGIT 9 TRACKING MODEL	100
15	SZID-8	SIZER ID DIGIT 8 TRACKING MODEL	99
16	SZID-7	SIZER ID DIGIT 7 TRACKING MODEL	1
17	SZID-6	SIZER ID DIGIT 6 TRACKING MODEL	5
18	SZID-5	SIZER ID DIGIT 5 TRACKING MODEL	6
19	SZID-4	SIZER ID DIGIT 4 TRACKING MODEL	3
20	SZID-3	SIZER ID DIGIT 3 TRACKING MODEL	8
21	SZID-2	SIZER ID DIGIT 2 TRACKING MODEL	100
22	SZID-1	SIZER ID DIGIT 1 TRACKING MODEL	2
23	EZ-2048BASE9	POWERMAX 8000 BASE 2048GB L9	1
24	EZ-BEDIR	POWERMAX 8000 ESS DIR	1
25	E-DRR	POWERMAX 2/8K DATA REDUCTION RESERVATION	3500
26	E-FXTL	FXTL TRACKING MODEL	1
27	E-OPROVISION	OPROVISION FACTOR TRACKING MODEL	13
28	WKPROFILE-BAL	VMAX VG WORKPROFILE BALANCED	1
29	EZ-MGMT	EMBEDDED MANAGEMENT POWERMAX 8000 TRK	1
30	M-PSM-HW-020	PROSUPPORT 4HR/MC HARDWARE SUPPORT	1
31	M-KYHD-PMAX	KEEP YOUR HARD DRIVE FOR ENT POWERMAX	1
32	458-002-211	POWERMAX ESSENTIALS SUITE=IC	1
33	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
34	458-002-210	POWERMAX ESSENTIALS SUITE OS 1TB=CC	80

35	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
36	450-001-643	POWERMAX ESSENTIALS SUITE 1TB=CC	80
37	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
38	PS-PDP-P30VMAX	30DAYPOSTDEPLOYASSIST VMAX	1
39	CE-PDPSTRTC0001	1 TRAINING CREDIT VALID 1YR (PDP STR)	1700
40	PS-PDP-PMAX8DP	PDP FOR POWERMAX 8000	1
41	PSINST-ESRS	ZERO DOLLAR ESRS INSTALL	1
42	PS-PDPAD-PMAX8REIN	PDP ADDON, PMAX 8000 RACK INSTALL	1
43	458-002-291	POWERMAX 8000 APPSYNC STR PK-ESS=CC	80
44	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
45	PS-PD-APSYDP	PD FOR APPSYNC INSTALL 4 HOST	1

B.6.6 Dell-EMC PowerMax 8000 Pro NVME All-Flash (3.84TB NVMe SSD) – 96TB RAW

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
Powermax 8000 Pro – 96TB RAW			
1	EZ-VB1KIT-3P	POWERMAX 8000 PB 1 INSTALL KIT 3P	1
2	EZ-DE24	POWERMAX 8000 DIRECT 24 SLT DR ENCL	2
3	EZ-PSNT-3Y-3P	POWERMAX 8000 SYS BAY1 3Y PSNT 3P	1
4	EZ-2UF-UFD-3P	POWERMAX 8000 2U FILLER PANEL KIT 3P	15
5	EZ-VBX-2048	POWERMAX 8000 PRO BASE 2048GB	1
6	SNDN3384071	POWERMAX 8000 RAID5(7+1) 3.84TB	24
7	EZ-CAPX	POWERMAX 8000 PRO CAPACITY	26
8	EZ-2048BASE9	POWERMAX 8000 BASE 2048GB L9	1
9	EZX-BEDIR	POWERMAX 8000 PRO DIR	1
10	SNDN33840S1	POWERMAX 8000 3.84TB SPARE	1
11	SZID-11	SIZER ID DIGIT 11 TRACKING MODEL	100
12	SZID-10	SIZER ID DIGIT 10 TRACKING MODEL	99
13	SZID-9	SIZER ID DIGIT 9 TRACKING MODEL	1
14	SZID-8	SIZER ID DIGIT 8 TRACKING MODEL	99
15	SZID-7	SIZER ID DIGIT 7 TRACKING MODEL	1
16	SZID-6	SIZER ID DIGIT 6 TRACKING MODEL	5
17	SZID-5	SIZER ID DIGIT 5 TRACKING MODEL	6
18	SZID-4	SIZER ID DIGIT 4 TRACKING MODEL	3
19	SZID-3	SIZER ID DIGIT 3 TRACKING MODEL	8
20	SZID-2	SIZER ID DIGIT 2 TRACKING MODEL	100
21	SZID-1	SIZER ID DIGIT 1 TRACKING MODEL	2
22	EZ-FE80000S	POWERMAX 8000 8MM 16G FC	1
23	EZ-COMPRESS	POWERMAX 8000 HDW COMPRESSION	1
24	EZ-1600MOD	POWERMAX 8000 FLASH MOD 1600	4
25	E-DRR	POWERMAX 2/8K DATA REDUCTION RESERVATION	3500
26	E-FXTL	FXTL TRACKING MODEL	1
27	E-OPROVISION	OPROVISION FACTOR TRACKING MODEL	13
28	WKPROFILE-BAL	VMAX VG WORKPROFILE BALANCED	1
29	EZ-MGMT	EMBEDDED MANAGEMENT POWERMAX 8000 TRK	1
30	M-PSM-HW-020	PROSUPPORT 4HR/MC HARDWARE SUPPORT	1
31	M-KYHD-PMAX	KEEP YOUR HARD DRIVE FOR ENT POWERMAX	1

32	458-002-223	POWERMAX PRO SUITE OS 1TB=CC	80
33	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
34	450-001-644	POWERMAX PRO SUITE=IC	1
35	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
36	450-001-645	POWERMAX PRO SUITE 1TB=CC	80
37	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
38	PS-PDP-P30VMAX	30DAYPOSTDEPLOYASSIST VMAX	1
39	CE-PDPSTRTC0001	1 TRAINING CREDIT VALID 1YR (PDP STR)	1700
40	PS-PDP-PMAX8DP	PDP FOR POWERMAX 8000	1
41	PS-PDPAD-PMAX8REIN	PDP ADDON, PMAX 8000 RACK INSTALL	1
42	PSINST-ESRS	ZERO DOLLAR ESRS INSTALL	1
43	458-002-312	SRM FOR POWERMAX PRO=CC	80
44	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
45	458-002-322	APPSYNC ADVANCED POWERMAX 8000-PRO=CC	80
46	M-PSM-SW-020	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
47	PS-PD-APSYDP	PD FOR APPSYNC INSTALL 4 HOST	1

B.7 High-End VDI Storage Dell-EMC

B.7.1 Dell-EMC XtremIO X2 1.92TB

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
XtremIO X2 1.92TB			
1	X2-HD-TAG-FD	XTREMIO X2-R 1.92TB PSNT FIELD	1
2	X2-VRACK-F	X2 FIELD SHIPPING CONTAINER FLD	1
3	X2-1920-18SSD-BA	XTREMIO X2 1.92TB SAS 18SSD BA	1
4	X2-HD-BASE-FD	XTREMIO X2-R 1.92TB BASE FLD	1
5	X2-BRICK-KIT-U	XTREMIO X2 X-BRICK INSTL KIT UG	1
6	X2-CMD-F	XTREMIO X2 CABLE MANAGEMENT DUCT FLD	1
7	X2-DAE-FD	XTREMIO X2- FLASH DRV ENC FLD	1
8	X2-HD-CTRL-FD	XTREMIO X2-R STORAGE CONTROLLER FLD	2
9	X2-IB-SINGLE-U	X2-SINGLE X-BRICK IB CBL KIT-UPGRADE	1
10	M-PSM-HW-X-002	PROSUPPORT 4HR/MC HARDWARE SUPPORT	1
11	458-002-132	XTREMIO X2-R/T X-BRICK OE =IC	1
12	456-112-877	XTREMIO X2-R/T 1 X-BRICK OE RTU =IC	1
13	M-PSM-SW-X-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
14	450-001-659	XTREMIO X2/E SW BUNDLE FOR X2-R/T=IC	1
15	M-PSM-SW-X-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
16	PS-PDP-P30XTREMIO	30DAYPOSTDEPLOYASSIST XTREMIO	1
17	CE-PDPSTRTC0001	1 TRAINING CREDIT VALID 1YR (PDP STR)	1100
18	PS-PDP-XTDP	PDP FOR XTREMIO DEPLOY	1
19	PS-BAS-ICDM	ICDM:APPSYNC INTALL+1 REPLICA ON 1 HOST	1
20	PS-BAS-XTHC	REMOTE DELIVERED HEALTH CHECK EVENT	1
21	PSINST-ESRS	ZERO DOLLAR ESRS INSTALL	1

B.7.2 Dell-EMC XtremIO X2 3.84TB

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
XtremIO X2 3.84TB			
1	X2-UHD-TAG-FD	XTREMIO X2R 3.84TB PSNT FLD	1

2	X2-VRACK-F	X2 FIELD SHIPPING CONTAINER FLD	1
3	X2-3840-18SSD-BA	XTREMIO X2-R 3.84TB SAS 18SSD BA	1
4	X2-UHD-BASE-FD	XTREMIO X2-R 3.84TB BASE FLD	1
5	X2-BRICK-KIT-U	XTREMIO X2 X-BRICK INSTL KIT UG	1
6	X2-CMD-F	XTREMIO X2 CABLE MANAGEMENT DUCT FLD	1
7	X2-DAE-FD	XTREMIO X2- FLASH DRV ENC FLD	1
8	X2-HD-CTRL-FD	XTREMIO X2-R STORAGE CONTROLLER FLD	2
9	X2-IB-SINGLE-U	X2-SINGLE X-BRICK IB CBL KIT-UPGRADE	1
10	M-PSM-HW-X-002	PROSUPPORT 4HR/MC HARDWARE SUPPORT	1
11	458-002-132	XTREMIO X2-R/T X-BRICK OE =IC	1
12	456-112-877	XTREMIO X2-R/T 1 X-BRICK OE RTU =IC	1
13	M-PSM-HW-X-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
14	450-001-659	XTREMIO X2/E SW BUNDLE FOR X2-R/T=IC	1
15	M-PSM-HW-X-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
16	PS-PDP-P30XTREMIO	30DAYPOSTDEPLOYASSIST XTREMIO	1
17	CE-PDPSTRTC0001	1 TRAINING CREDIT VALID 1YR (PDP STR)	1100
18	PS-PDP-XTDP	PDP FOR XTREMIO DEPLOY	1
19	PS-BAS-ICDM	ICDM:APPSYNC INTALL+1 REPLICAS ON 1 HOST	1
20	PS-BAS-XTHC	REMOTE DELIVERED HEALTH CHECK EVENT	1
21	PSINST-ESRS	ZERO DOLLAR ESRS INSTALL	1

B.7.3 Dell-EMC XtremIO X2 3.84TB x 9

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
XtremIO X2 3.84TB x 9			
1	X2-UHD-TAG-FD	XTREMIO X2R 3.84TB PSNT FLD	1
2	X2-VRACK-F	X2 FIELD SHIPPING CONTAINER FLD	1
3	X2-3840-2SSD-FD	XTREMIO X2 3.84TB SAS 2SSD FLD	9
4	X2-3840-18SSD-BA	XTREMIO X2-R 3.84TB SAS 18SSD BA	1
5	X2-UHD-BASE-FD	XTREMIO X2-R 3.84TB BASE FLD	1
6	X2-BRICK-KIT-U	XTREMIO X2 X-BRICK INSTL KIT UG	1
7	X2-CMD-F	XTREMIO X2 CABLE MANAGEMENT DUCT FLD	1
8	X2-DAE-FD	XTREMIO X2- FLASH DRV ENC FLD	1
9	X2-HD-CTRL-FD	XTREMIO X2-R STORAGE CONTROLLER FLD	2
10	X2-IB-SINGLE-U	X2-SINGLE X-BRICK IB CBL KIT-UPGRADE	1
11	M-PSM-HW-X-002	PROSUPPORT 4HR/MC HARDWARE SUPPORT	1
12	458-002-132	XTREMIO X2-R/T X-BRICK OE =IC	1
13	456-112-877	XTREMIO X2-R/T 1 X-BRICK OE RTU =IC	1
14	M-PSM-SW-X-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
15	450-001-659	XTREMIO X2/E SW BUNDLE FOR X2-R/T=IC	1
16	M-PSM-SW-X-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
17	PS-PDP-P30XTREMIO	30DAYPOSTDEPLOYASSIST XTREMIO	1
18	CE-PDPSTRTC0001	1 TRAINING CREDIT VALID 1YR (PDP STR)	1100
19	PS-PDP-XTDP	PDP FOR XTREMIO DEPLOY	1
20	PS-BAS-ICDM	ICDM:APPSYNC INTALL+1 REPLICAS ON 1 HOST	1
21	PS-BAS-XTHC	REMOTE DELIVERED HEALTH CHECK EVENT	1
22	PSINST-ESRS	ZERO DOLLAR ESRS INSTALL	1

B.8 Data Protection (Backup) Storage Dell-EMC

B.8.1 Dell-EMC PowerProtect DD3300–4TB RAW (Logical capacity: Up to: 200TB (Up-to-50x deduplication))

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerProtect DD3300 – 4TB RAW			
1	[210-AQVT], [329-BDWH], [350-BBST]	PowerProtect 3300 Appliance	1
2	[321-BDVK]	PowerProtect DD3300 4TB	1
3	[528-BDCF]	PowerProtect DD3300 4TB License 5 Years Maintenance=CC	1
4	[821-20832]	5 Years, ProSupport with Mission Critical, Software Support	1
5	[343-BBFG]	PowerEdge R740 Shipping Material	1
6	[385-BBNZ]	iDRAC9,Enterprise	1
7	[325-BDUF]	PowerProtect 3300 2U 14G Bezel	1
8	[800-BBSJ]	PowerProtect DD3300 Embedded Hypervisor	1
9	[800-BBSF]	PowerProtect DD3300 Embedded HPVSR MAINT 3YR	1
10	[711-BBHY]	Keep Your Hard Drive, 60 Month(s)	1
11	[709-BBWJ]	Parts Only Warranty 12Months, 12 Month(s)	1
12	[199-BEOV], [199-BEOW]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
13	[683-22136], [683-22137], [706-12476]	ProDeploy Plus Dell EMC Data Domain Appliance	1
14	[450-AAXU]	European Power Cord 220V	2
15	[340-CHOJ]	PowerProtect 3300 EMEA 1	1
16	[658-BDZL]	DD3300 Software Factory Installed	1

B.8.2 Dell-EMC PowerProtect DD3300–16TB RAW (Logical capacity: Up to: 800TB (Up-to-50x deduplication))

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerProtect DD3300 – 16TB RAW			
1	[210-AQVT], [329-BDWH], [350-BBST]	PowerProtect 3300 Appliance	1
2	[321-BDVI]	PowerProtect DD3300 16TB	1
3	[528-BDBP]	PowerProtect DD3300 16TB License 5 Years Maintenance=CC	1
4	[821-20832]	5 Years, ProSupport with Mission Critical, Software Support	1
5	[343-BBFG]	PowerEdge R740 Shipping Material	1
6	[385-BBNZ]	iDRAC9,Enterprise	1
7	[325-BDUF]	PowerProtect 3300 2U 14G Bezel	1
8	[800-BBSJ]	PowerProtect DD3300 Embedded Hypervisor	1
9	[800-BBSF]	PowerProtect DD3300 Embedded HPVSR MAINT 3YR	1
10	[711-BBHY]	Keep Your Hard Drive, 60 Month(s)	1
11	[709-BBWJ]	Parts Only Warranty 12Months, 12 Month(s)	1

12	[199-BEOV], [199-BEOW]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
13	[683-22136], [683-22137], [706-12476]	ProDeploy Plus Dell EMC Data Domain Appliance	1
14	[450-AAXU]	European Power Cord 220V	2
15	[340-CHOJ]	PowerProtect 3300 EMEA 1	1
16	[658-BDZL]	DD3300 Software Factory Installed	1

B.8.3 Dell-EMC PowerProtect DD3300–32TB RAW (Logical capacity: Up to: 1.6PB (Up-to-50x deduplication))

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerProtect DD3300 – 32TB RAW			
1	[210-AQVT], [329-BDWH], [350-BBST]	PowerProtect 3300 Appliance	1
2	[321-BDVJ]	PowerProtect DD3300 32TB	1
3	[528-BDCE]	PowerProtect DD3300 32TB License 5 Years Maintenance=CC	1
4	[821-20832]	5 Years, ProSupport with Mission Critical, Software Support	1
5	[343-BBFG]	PowerEdge R740 Shipping Material	1
6	[385-BBNZ]	iDRAC9,Enterprise	1
7	[325-BDUF]	PowerProtect 3300 2U 14G Bezel	1
8	[800-BBSJ]	PowerProtect DD3300 Embedded Hypervisor	1
9	[800-BBSF]	PowerProtect DD3300 Embedded HPVSR MAINT 3YR	1
10	[711-BBHY]	Keep Your Hard Drive, 60 Month(s)	1
11	[709-BBWJ]	Parts Only Warranty 12Months, 12 Month(s)	1
12	[199-BEOV], [199-BEOW]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
13	[683-22136], [683-22137], [706-12476]	ProDeploy Plus Dell EMC Data Domain Appliance	1
14	[450-AAXU]	European Power Cord 220V	2
15	[340-CHOJ]	PowerProtect 3300 EMEA 1	1
16	[658-BDZL]	DD3300 Software Factory Installed	1

B.8.4 Dell-EMC PowerProtect DD6900–60TB RAW (Logical capacity: Up to: 3.9PB (Up-to-65x deduplication))

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerProtect DD6900 – 60TB RAW			
1	[379-BDTQ]	New Controller	1
2	[210-ATZK]	Controller DD6900 NFS CIFS	1
3	[321-BEYX]	SYSTEM DD6900 NFS CIFS	1
4	[400-BHKT]	DD 1.92TB internal Cache SSD	2
5	[750-ABNU]	Field Installed	1
6	[619-APHN]	DD OS 7.1=IA	1
7	[406-BBPC]	DD 10GBASE-T IO MODULE 4PORT NDC	1
8	[406-BBPF]	DD 12G 4 port SAS HBA	2
9	[406-BBPG]	DD 16GBIT FC IO MODULE 4PORT	1

10	[470-ADZE]	DD 3M SAS HD FLEX	1
11	[528-BYIF]	LICENSE BASE DD OE =IA	1
12	[487-BBNW]	ProSupport Mission Critical Operating Environment Software Support Maintenance, 60 Month(s)	1
13	[709-BBNH]	Parts Only Warranty 12Months, 12 Month(s)	1
14	[199-BBBB], [199-BBBC]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
15	[711-BBDC]	Keep Your Hard Drive, 60 Month(s)	1
16	[683-23696], [683-23697], [706-12476]	ProDeploy Plus for PowerProtect Data Domain 6XXX 9XXX	1
17	[210-ATZY]	DD DS60 SHELF Field	1
18	[528-BYIR]	DD New Software=CB	60
19	[487-BBNG]	ProSupport Mission Critical DD New 1TB Software Support Maintenance, 60 Month(s)	60
20	[528-BYIN]	DS60 4TB Act 60TB Raw=CB	1
21	[487-BBKZ]	ProSupport Mission Critical DD Raw DS60 4TB Active 60TB Software Support Maintenance, 60 Month(s)	1
22	[400-BHKW]	HDD 12G DISK PK 15X4TB SAS DS60	1
23	[528-BYIS]	DD Boost Software=CB	60
24	[487-BBMX]	ProSupport Mission Critical DD Boost 1TB Software Support Maintenance, 60 Month(s)	60
25	[528-BYIT]	DD Replication Software=CB	60
26	[487-BBNC]	ProSupport Mission Critical DD Replication 1TB Software Support Maintenance, 60 Month(s)	60
27	[709-BBNH]	Parts Only Warranty 12Months, 12 Month(s)	1
28	[711-BBDC]	Keep Your Hard Drive, 60 Month(s)	1
29	[683-23660], [683-23661]	ProDeploy Plus for DSXX	1
30	[199-BBBB], [199-BBBC]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
31	[379-BDTQ]	DD6900 Selected	1

B.8.5 Dell-EMC PowerProtect DD6900–120TB RAW (Logical capacity: Up to: 7.8PB (Up-to-65x deduplication))

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerProtect DD6900 – 120TB RAW			
1	[379-BDTQ]	New Controller	1
2	[210-ATZK]	Controller DD6900 NFS CIFS	1
3	[321-BEYX]	SYSTEM DD6900 NFS CIFS	1
4	[400-BHKT]	DD 1.92TB internal Cache SSD	2
5	[750-ABNU]	Field Installed	1
6	[619-APHN]	DD OS 7.1=IA	1
7	[406-BBPC]	DD 10GBASE-T IO MODULE 4PORT NDC	1
8	[406-BBPF]	DD 12G 4 port SAS HBA	2
9	[406-BBPG]	DD 16GBIT FC IO MODULE 4PORT	1
10	[470-ADZE]	DD 3M SAS HD FLEX	1
11	[528-BYIF]	LICENSE BASE DD OE =IA	1
12	[487-BBNW]	ProSupport Mission Critical Operating	1

		Environment Software Support Maintenance, 60 Month(s)	
13	[709-BBNH]	Parts Only Warranty 12Months, 12 Month(s)	1
14	[199-BBBB], [199-BBBC]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
15	[711-BBDC]	Keep Your Hard Drive, 60 Month(s)	1
16	[683-23696], [683-23697], [706-12476]	ProDeploy Plus for PowerProtect Data Domain 6XXX 9XXX	1
17	[210-ATZY]	DD DS60 SHELF Field	1
18	[528-BYIR]	DD New Software=CB	120
19	[487-BBNG]	ProSupport Mission Critical DD New 1TB Software Support Maintenance, 60 Month(s)	120
20	[528-BYIN]	DS60 4TB Act 60TB Raw=CB	2
21	[487-BBKZ]	ProSupport Mission Critical DD Raw DS60 4TB Active 60TB Software Support Maintenance, 60 Month(s)	2
22	[400-BHKW]	HDD 12G DISK PK 15X4TB SAS DS60	2
23	[528-BYIS]	DD Boost Software=CB	120
24	[487-BBMX]	ProSupport Mission Critical DD Boost 1TB Software Support Maintenance, 60 Month(s)	120
25	[528-BYIT]	DD Replication Software=CB	120
26	[487-BBNC]	ProSupport Mission Critical DD Replication 1TB Software Support Maintenance, 60 Month(s)	120
27	[709-BBNH]	Parts Only Warranty 12Months, 12 Month(s)	1
28	[711-BBDC]	Keep Your Hard Drive, 60 Month(s)	1
29	[683-23660], [683-23661]	ProDeploy Plus for DSXX	1
30	[199-BBBB], [199-BBBC]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
31	[379-BDTQ]	DD6900 Selected	1

B.8.6 Dell-EMC PowerProtect DD6900–360TB RAW (Logical capacity: Up to: 23.4PB (Up-to-65x deduplication))

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerProtect DD6900 – 360TB RAW			
1	[379-BDTQ]	New Controller	1
2	[210-ATZK]	Controller DD6900 NFS CIFS	1
3	[321-BEYX]	SYSTEM DD6900 NFS CIFS	1
4	[400-BHKT]	DD 1.92TB internal Cache SSD	2
5	[750-ABNU]	Field Installed	1
6	[619-APHN]	DD OS 7.1=IA	1
7	[406-BBPC]	DD 10GBASE-T IO MODULE 4PORT NDC	1
8	[406-BBPF]	DD 12G 4 port SAS HBA	2
9	[406-BBPG]	DD 16GBIT FC IO MODULE 4PORT	1
10	[470-ADZE]	DD 3M SAS HD FLEX	1
11	[528-BYIF]	LICENSE BASE DD OE =IA	1
12	[487-BBNW]	ProSupport Mission Critical Operating Environment Software Support Maintenance, 60 Month(s)	1
13	[709-BBNH]	Parts Only Warranty 12Months, 12 Month(s)	1

14	[199-BBBB], [199-BBBC]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
15	[711-BBDC]	Keep Your Hard Drive, 60 Month(s)	1
16	[683-23696], [683-23697], [706-12476]	ProDeploy Plus for PowerProtect Data Domain 6XXX 9XXX	1
17	[210-ATZY]	DD DS60 SHELF Field	1
18	[528-BYIR]	DD New Software=CB	240
19	[487-BBNG]	ProSupport Mission Critical DD New 1TB Software Support Maintenance, 60 Month(s)	240
20	[528-BYIN]	DS60 4TB Act 60TB Raw=CB	4
21	[487-BBKZ]	ProSupport Mission Critical DD Raw DS60 4TB Active 60TB Software Support Maintenance, 60 Month(s)	4
22	[400-BHKW]	HDD 12G DISK PK 15X4TB SAS DS60	4
23	[528-BYIS]	DD Boost Software=CB	240
24	[487-BBMX]	ProSupport Mission Critical DD Boost 1TB Software Support Maintenance, 60 Month(s)	240
25	[528-BYIT]	DD Replication Software=CB	240
26	[487-BBNC]	ProSupport Mission Critical DD Replication 1TB Software Support Maintenance, 60 Month(s)	240
27	[709-BBNH]	Parts Only Warranty 12Months, 12 Month(s)	1
28	[711-BBDC]	Keep Your Hard Drive, 60 Month(s)	1
29	[683-23660], [683-23661]	ProDeploy Plus for DSXX	1
30	[199-BBBB], [199-BBBC]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
31	[379-BDTQ]	DD6900 Selected	1
32	[210-ATZY]	DD DS60 SHELF Field	1
33	[528-BYIR]	DD New Software=CB	120
34	[487-BBNG]	ProSupport Mission Critical DD New 1TB Software Support Maintenance, 60 Month(s)	120
35	[528-BYIN]	DS60 4TB Act 60TB Raw=CB	2
36	[487-BBKZ]	ProSupport Mission Critical DD Raw DS60 4TB Active 60TB Software Support Maintenance, 60 Month(s)	2
37	[400-BHKW]	HDD 12G DISK PK 15X4TB SAS DS60	2
38	[528-BYIS]	DD Boost Software=CB	120
39	[487-BBMX]	ProSupport Mission Critical DD Boost 1TB Software Support Maintenance, 60 Month(s)	120
40	[528-BYIT]	DD Replication Software=CB	120
41	[487-BBNC]	ProSupport Mission Critical DD Replication 1TB Software Support Maintenance, 60 Month(s)	120
42	[709-BBNH]	Parts Only Warranty 12Months, 12 Month(s)	1
43	[711-BBDC]	Keep Your Hard Drive, 60 Month(s)	1
44	[683-23660], [683-23661]	ProDeploy Plus for DSXX	1
45	[199-BBBB], [199-BBBC]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
46	[379-BDTQ]	DD6900 Selected	1

B.8.7 Dell-EMC PowerProtect DD9400–480TB RAW (Logical capacity: Up to: 31.2PB (Up-to-65x deduplication))

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerProtect DD9400 – 480TB RAW			
1	[379-BDTQ]	New Controller	1
2	[210-ATZU]	Controller DD9400 NFS CIFS	1
3	[321-BEYY]	SYSTEM DD9400 NFS CIFS	1
4	[400-BHKU]	DD 3.84TB internal Cache SSD	5
5	[750-ABNV]	Field Installed	1
6	[619-APHN]	DD OS 7.1=IA	1
7	[406-BBPC]	DD 10GBASE-T IO MODULE 4PORT NDC	1
8	[406-BBPF]	DD 12G 4 port SAS HBA	2
9	[406-BBPG]	DD 16GBIT FC IO MODULE 4PORT	1
10	[470-ADZF]	DD 4M SAS HD FLEX	1
11	[528-BYIF]	LICENSE BASE DD OE =IA	1
12	[487-BBNW]	ProSupport Mission Critical Operating Environment Software Support Maintenance, 60 Month(s)	1
13	[709-BBNH]	Parts Only Warranty 12Months, 12 Month(s)	1
14	[199-BBBB], [199-BBBC]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
15	[711-BBDC]	Keep Your Hard Drive, 60 Month(s)	1
16	[683-23696], [683-23697], [706-12476]	ProDeploy Plus for PowerProtect Data Domain 6XXX 9XXX	1
17	[210-ATZY]	DD DS60 SHELF Field	1
18	[528-BYIR]	DD New Software=CB	240
19	[487-BBNG]	ProSupport Mission Critical DD New 1TB Software Support Maintenance, 60 Month(s)	240
20	[528-BYIO]	DS60 8TB Act 60TB Raw=CB	4
21	[487-BBLE]	ProSupport Mission Critical DD Raw DS60 8TB Active 60TB Software Support Maintenance, 60 Month(s)	4
22	[634-BUPP]	DD 60TB Capacity Pack	4
23	[400-BHKY]	HDD DISK PK 15X8TB SAS DS60	2
24	[400-BHLB]	HDD DISK PK 15X8TB SAS DS60 OP	2
25	[199-BBRI]	ProSupport and Mission Critical-HDD DISK PK 15X8TB SAS DS60 OP, 60 Month(s)	2
26	[528-BYIS]	DD Boost Software=CB	240
27	[487-BBMX]	ProSupport Mission Critical DD Boost 1TB Software Support Maintenance, 60 Month(s)	240
28	[528-BYIT]	DD Replication Software=CB	240
29	[487-BBNC]	ProSupport Mission Critical DD Replication 1TB Software Support Maintenance, 60 Month(s)	240
30	[709-BBNH]	Parts Only Warranty 12Months, 12 Month(s)	1
31	[711-BBDC]	Keep Your Hard Drive, 60 Month(s)	1
32	[683-23660], [683-23661]	ProDeploy Plus for DSXX	1
33	[199-BBBB], [199-BBBC]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
34	[379-BDTQ]	DD9400 Selected	1

B.8.8 Dell-EMC PowerProtect DD9900–960TB RAW (Logical capacity: Up to: 62.4PB (Up-to-65x deduplication))

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerProtect DD9900 – 960TB RAW			
1	[379-BDTQ]	New Controller	1
2	[210-ATZW]	Controller DD9900 NFS CIFS	1
3	[321-BEYZ]	SYSTEM DD9900 NFS CIFS	1
4	[750-ABNW]	Field Installed	1
5	[619-APHN]	DD OS 7.1=IA	1
6	[406-BBPC]	DD 10GBASE-T IO MODULE 4PORT NDC	1
7	[406-BBPF]	DD 12G 4 port SAS HBA	2
8	[406-BBPG]	DD 16GBIT FC IO MODULE 4PORT	1
9	[470-ADZE]	DD 3M SAS HD FLEX	1
10	[470-ADZF]	DD 4M SAS HD FLEX	1
11	[487-BBNW]	ProSupport Mission Critical Operating Environment Software Support Maintenance, 60 Month(s)	1
12	[709-BBOO]	Parts Only Warranty 12Months, 12 Month(s)	1
13	[199-BBBB], [199-BBBC]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
14	[711-BBDC]	Keep Your Hard Drive, 60 Month(s)	1
15	[683-23696], [683-23697], [706-12476]	ProDeploy Plus for PowerProtect Data Domain 6XXX 9XXX	1
16	[528-BYIF]	LICENSE BASE DD OE =IA	1
17	[210-ATZY]	DD DS60 SHELF Field	1
18	[528-BYIR]	DD New Software=CB	240
19	[487-BBNG]	ProSupport Mission Critical DD New 1TB Software Support Maintenance, 60 Month(s)	240
20	[528-BYIO]	DS60 8TB Act 60TB Raw=CB	4
21	[487-BBLE]	ProSupport Mission Critical DD Raw DS60 8TB Active 60TB Software Support Maintenance, 60 Month(s)	4
22	[634-BUPP]	DD 60TB Capacity Pack	4
23	[400-BHKY]	HDD DISK PK 15X8TB SAS DS60	2
24	[400-BHLB]	HDD DISK PK 15X8TB SAS DS60 OP	2
25	[199-BBRI]	ProSupport and Mission Critical-HDD DISK PK 15X8TB SAS DS60 OP, 60 Month(s)	2
26	[528-BYIS]	DD Boost Software=CB	240
27	[487-BBMX]	ProSupport Mission Critical DD Boost 1TB Software Support Maintenance, 60 Month(s)	240
28	[528-BYIT]	DD Replication Software=CB	240
29	[487-BBNC]	ProSupport Mission Critical DD Replication 1TB Software Support Maintenance, 60 Month(s)	240
30	[709-BBNH]	Parts Only Warranty 12Months, 12 Month(s)	1
31	[711-BBDC]	Keep Your Hard Drive, 60 Month(s)	1
32	[683-23660], [683-23661]	ProDeploy Plus for DSXX	1
33	[199-BBBB], [199-BBBC]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1

34	[379-BDTQ]	DD9900 Selected	1
35	[210-ATZY]	DD DS60 SHELF Field	1
36	[528-BYIR]	DD New Software=CB	480
37	[487-BBNG]	ProSupport Mission Critical DD New 1TB Software Support Maintenance, 60 Month(s)	480
38	[528-BYIO]	DS60 8TB Act 60TB Raw=CB	8
39	[487-BBLE]	ProSupport Mission Critical DD Raw DS60 8TB Active 60TB Software Support Maintenance, 60 Month(s)	8
40	[634-BUPP]	DD 60TB Capacity Pack	8
41	[400-BHKY]	HDD DISK PK 15X8TB SAS DS60	4
42	[528-BYIS]	DD Boost Software=CB	480
43	[487-BBMX]	ProSupport Mission Critical DD Boost 1TB Software Support Maintenance, 60 Month(s)	480
44	[528-BYIT]	DD Replication Software=CB	480
45	[487-BBNC]	ProSupport Mission Critical DD Replication 1TB Software Support Maintenance, 60 Month(s)	480
46	[709-BBNH]	Parts Only Warranty 12Months, 12 Month(s)	1
47	[711-BBDC]	Keep Your Hard Drive, 60 Month(s)	1
48	[683-23660], [683-23661]	ProDeploy Plus for DSXX	1
49	[199-BBBB], [199-BBBC]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
50	[379-BDTQ]	DD9900 Selected	1
51	[210-AUBH]	DD FS25 SHELF Field	1
52	[400-BHKV]	DD 3.84TB external Cache SSD	10
53	[709-BBNH]	Parts Only Warranty 12Months, 12 Month(s)	1
54	[711-BBDC]	Keep Your Hard Drive, 60 Month(s)	1
55	[683-23656], [683-23657]	ProDeploy Plus for FSXX ESXX	1
56	[199-BBBB], [199-BBBC]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
57	[379-BDTQ]	DD9900 Selected	1

B.9 Integrated/Converged Data Protection Appliance

B.9.1 Cohesity cluster of 4 x DL380-96TB

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
		Cohesity cluster of 4 x DL380-96TB	
1	R0Q31B	HPE ProLiant DL380 Gen10 96TB Configure-to-order Server for Cohesity DataPlatform	4
2	R2E09A	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	4
3	R2E09A 0D1	Factory Integrated	4
4	817709-B21	HPE Ethernet 10/25Gb 2-port FLR-SFP28 BCM57414 Adapter	4
5	817709-B21 0D1	Factory Integrated	4
6	455883-B21	HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver	8
7	455883-B21 0D1	Factory Integrated	8

8	865414-B21	HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	8
9	865414-B21 OD1	Factory Integrated	8
10	R3P27AAE	Cohesity Small Cluster Onsite Installation Service	1
11	R1Y24AAE	Cohesity DataPlatform Standard Edition 1TB 3yr Subscription and Support E-LTU	256
12	R1Y54AAE	Cohesity DataProtect 1TB Add-on 3yr Subscription and Support E-LTU	256
13	HA113A1	HPE Installation SVC	1
14	HA113A1 5A6	HPE 300 Series Installation Service	4
15	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
16	HT7A6A3 WAH	HPE DL38x Gen10 Support	4

B.9.2 Dell-EMC Dell-EMC IDPA PowerProtect DP4400 – 8TB

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
IDPA PowerProtect DP4400 – 8TB			
1	DPAPPL_4400	ANCHOR DP APPLIANCE 4400	1
2	DP4400S_8TB_SFP8	IDPA DP4400S 8TB 8X10G SFP	1
3	DPCBL-LC-OM4-10ME	10 M LC TO LC CABLE KIT	4
4	DPXCVR-10GBE-4400	TRANSCEIVER 10GBE SFP+ DP4400 300M	4
5	M-PSP-HW-DD-E1	PROSUPPORT PLUS 4HR/MC HARDWARE SUPPORT	1
6	M-KYHD-DPE	KEEP YOUR HARD DRIVE FOR ENT DPAD-E	1
7	458-002-436	IDPA DP4400 ENV CONFIG	1
8	456-113-830	DP4400S CAPACITY ENABLER DDVE 4TB=CC	2
9	456-113-623	ANALYTICS ENABLER ENTRY=CB	1
10	456-113-661	IDPA TARGET PROTOCOL ENABLER ENTRY=CA	1
11	456-113-622	VREALIZE ENABLER ENTRY=IA	1
12	456-113-624	IDPA BU SEARCH ENABLER ENTRY=CA	1
13	456-113-620	FEDERATED REPORTING SERVER ENTRY=IA	1
14	456-113-781	IDPA BOOSTFS 1 TB RAW ENABLER ENTRY=CB	8
15	456-113-621	IDPA BU APP ENABLER ENTRY=IA	1
16	M-PSP-SW-DD-E1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1
17	458-002-414	DATA PROTECTION CENTRAL ENTRY=CA	1
18	M-PSP-SW-DD-E1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1
19	IDPA_DP4400_2-5	IDPA DP4400 OS SW CODE 2.5.X=IA	1
20	CE-PDPDPDTC0001	1 TRAINING CREDIT VALID 1YR (PDP DP)	900
21	PS-PDP-IDPAVEDP	PDP FOR IDPA DP4X SERIES	1
22	PS-PDP-P30IDPA	30DAYPOSTDEPLOYASSIST IDPA	1
23	458-002-484	EMC GRANULAR RECOVERY MICROSOFT HIGH=CA	8
24	M-PSM-SW-DD-H1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
25	458-001-440	RECOVERPOINT FOR VM STARTER PACKS	1
26	456-113-589	RP4VM 5VM STARTER PACK FOR DP4400=IB	1
27	M-PSM-SW-D3-001	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1

B.9.3 Dell-EMC IDPA PowerProtect DP4400 – 24TB

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
IDPA PowerProtect DP4400 – 24TB			
1	DP4400_24TB_SFP8	IDPA DP4400 24TB 8X10G SFP	1
2	DPAPPL_4400	ANCHOR DP APPLIANCE 4400	1
3	DPCBL-LC-OM4-10ME	10 M LC TO LC CABLE KIT	4
4	DPXCVR-10GBE-4400	TRANSCEIVER 10GBE SFP+ DP4400 300M	4
5	M-PSP-HW-DD-E1	PROSUPPORT PLUS 4HR/MC HARDWARE SUPPORT	1
6	M-KYHD-DPE	KEEP YOUR HARD DRIVE FOR ENT DPAD-E	1
7	458-002-436	IDPA DP4400 ENV CONFIG	1
8	456-107-987	DP4400 CAPACITY ENABLER DDVE 12TB=CC	2
9	456-113-623	ANALYTICS ENABLER ENTRY=CB	1
10	456-113-661	IDPA TARGET PROTOCOL ENABLER ENTRY=CA	1
11	456-113-622	VREALIZE ENABLER ENTRY=IA	1
12	456-113-624	IDPA BU SEARCH ENABLER ENTRY=CA	1
13	456-113-620	FEDERATED REPORTING SERVER ENTRY=IA	1
14	456-113-781	IDPA BOOSTFS 1 TB RAW ENABLER ENTRY=CB	24
15	456-113-621	IDPA BU APP ENABLER ENTRY=IA	1
16	M-PSP-SW-DD-E1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1
17	458-002-414	DATA PROTECTION CENTRAL ENTRY=CA	1
18	M-PSP-SW-DD-E1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1
19	IDPA_DP4400_2-5	IDPA DP4400 OS SW CODE 2.5.X=IA	1
20	CE-PDPDPDTC0001	1 TRAINING CREDIT VALID 1YR (PDP DP)	900
21	PS-PDP-IDPAVEDP	PDP FOR IDPA DP4X SERIES	1
22	PS-PDP-P30IDPA	30DAYPOSTDEPLOYASSIST IDPA	1
23	458-002-484	EMC GRANULAR RECOVERY MICROSOFT HIGH=CA	24
24	M-PSM-SW-DD-H1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
25	458-001-440	RECOVERPOINT FOR VM STARTER PACKS	1
26	456-113-589	RP4VM 5VM STARTER PACK FOR DP4400=IB	1
27	M-PSM-SW-D3-001	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1

B.9.4 Dell-EMC IDPA PowerProtect DP4400 – 48TB

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
IDPA PowerProtect DP4400 – 48TB			
1	DP4400_12TB_PACK	DP4400 12TB CAPACITY EXPANSION PACK	2
2	DP4400_24TB_SFP8	IDPA DP4400 24TB 8X10G SFP	1
3	DPAPPL_4400	ANCHOR DP APPLIANCE 4400	1
4	DPCBL-LC-OM4-10ME	10 M LC TO LC CABLE KIT	4
5	DPXCVR-10GBE-4400	TRANSCEIVER 10GBE SFP+ DP4400 300M	4
6	M-PSP-HW-DD-E1	PROSUPPORT PLUS 4HR/MC HARDWARE SUPPORT	1
7	M-KYHD-DPE	KEEP YOUR HARD DRIVE FOR ENT DPAD-E	1
8	458-002-436	IDPA DP4400 ENV CONFIG	1

9	456-107-987	DP4400 CAPACITY ENABLER DDVE 12TB=CC	4
10	456-113-623	ANALYTICS ENABLER ENTRY=CB	1
11	456-113-661	IDPA TARGET PROTOCOL ENABLER ENTRY=CA	1
12	456-113-622	VREALIZE ENABLER ENTRY=IA	1
13	456-113-624	IDPA BU SEARCH ENABLER ENTRY=CA	1
14	456-113-620	FEDERATED REPORTING SERVER ENTRY=IA	1
15	456-113-781	IDPA BOOSTFS 1 TB RAW ENABLER ENTRY=CB	48
16	456-113-621	IDPA BU APP ENABLER ENTRY=IA	1
17	M-PSP-SW-DD-E1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1
18	458-002-414	DATA PROTECTION CENTRAL ENTRY=CA	1
19	M-PSP-SW-DD-E1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1
20	IDPA_DP4400_2-5	IDPA DP4400 OS SW CODE 2.5.X=IA	1
21	CE-PDPDPDTC0001	1 TRAINING CREDIT VALID 1YR (PDP DP)	900
22	PS-PDP-IDPAVEDP	PDP FOR IDPA DP4X SERIES	1
23	PS-PDP-P30IDPA	30DAYPOSTDEPLOYASSIST IDPA	1
24	458-002-484	EMC GRANULAR RECOVERY MICROSOFT HIGH=CA	48
25	M-PSM-SW-DD-H1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
26	458-001-440	RECOVERPOINT FOR VM STARTER PACKS	1
27	456-113-589	RP4VM 5VM STARTER PACK FOR DP4400=IB	1
28	M-PSM-SW-D3-001	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1

B.9.5 Dell-EMC IDPA PowerProtect DP4400 – 96TB

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
IDPA PowerProtect DP4400 – 96TB			
1	DP4400_12TB_PACK	DP4400 12TB CAPACITY EXPANSION PACK	6
2	DP4400_24TB_SFP8	IDPA DP4400 24TB 8X10G SFP	1
3	DPAPPL_4400	ANCHOR DP APPLIANCE 4400	1
4	DPCBL-LC-OM4-10ME	10 M LC TO LC CABLE KIT	4
5	DPXCVR-10GBE-4400	TRANSCEIVER 10GBE SFP+ DP4400 300M	4
6	M-PSP-HW-DD-E1	PROSUPPORT PLUS 4HR/MC HARDWARE SUPPORT	1
7	M-KYHD-DPE	KEEP YOUR HARD DRIVE FOR ENT DPAD-E	1
8	458-002-436	IDPA DP4400 ENV CONFIG	1
9	456-107-987	DP4400 CAPACITY ENABLER DDVE 12TB=CC	8
10	456-113-623	ANALYTICS ENABLER ENTRY=CB	1
11	456-113-661	IDPA TARGET PROTOCOL ENABLER ENTRY=CA	1
12	456-113-622	VREALIZE ENABLER ENTRY=IA	1
13	456-113-624	IDPA BU SEARCH ENABLER ENTRY=CA	1
14	456-113-620	FEDERATED REPORTING SERVER ENTRY=IA	1
15	456-113-781	IDPA BOOSTFS 1 TB RAW ENABLER ENTRY=CB	96
16	456-113-621	IDPA BU APP ENABLER ENTRY=IA	1
17	M-PSP-SW-DD-E1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1
18	458-002-414	DATA PROTECTION CENTRAL ENTRY=CA	1

19	M-PSP-SW-DD-E1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1
20	IDPA_DP4400_2-5	IDPA DP4400 OS SW CODE 2.5.X=IA	1
21	CE-PDPDPDTC0001	1 TRAINING CREDIT VALID 1YR (PDP DP)	900
22	PS-PDP-IDPAVEDP	PDP FOR IDPA DP4X SERIES	1
23	PS-PDP-P30IDPA	30DAYPOSTDEPLOYASSIST IDPA	1
24	458-002-484	EMC GRANULAR RECOVERY MICROSOFT HIGH=CA	96
25	M-PSM-SW-DD-H1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
26	458-001-440	RECOVERPOINT FOR VM STARTER PACKS	1
27	456-113-589	RP4VM 5VM STARTER PACK FOR DP4400=IB	1
28	M-PSM-SW-D3-001	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1

B.9.6 Dell-EMC IDPA PowerProtect DP5800 – 96TB

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
IDPA PowerProtect DP5800 – 96TB			
1	DP5800CTL-DP	DP5800 BASE APPLIANCE CONTROLLER	1
2	DPRACK-1PH-DR3-DP	DP APPL RACK 40U SNGL PHASE - DELL	1
3	DPCBL-LC-OM4-10M	10 M LC TO LC CABLE KIT	2
4	DPXCVR-SFP-10GBE	XCVR 300 M SFP OPTICS	2
5	DPCMPNODE-G14-DP	DPAPPLG14COMPUTENODE	3
6	DPSWITCH-FAKIT-DP	DP APPLIANCE NETWORK SWITCH FACKIT	1
7	DPNTWK-SW-DP	DP APPLIANCE NETWORK SWITCH	1
8	DPDS60-4-120S-DP	DS60 SHELF 30X4TB SAS HDD G3 DP APPL	1
9	DPFACINSTL5800-DP	DP5800 FACTORY INSTALL KIT	1
10	IDPA_DP5800_CUBE	IDPA DP5800 BASE CUBE	1
11	PC-RK30IEC3-1-DP	PWR CORD 1PH INTL RACK DL-DP APPL	1
12	M-PSP-HW-DD-DD1	PROSUPPORT PLUS 4HR/MC HARDWARE SUPPORT	1
13	M-KYHD-DD1	KEEP YOUR HARD DRIVE FOR ENT DD	1
14	458-002-264	IDPA CAPACITY ENABLER=CB	2
15	M-PSP-SW-DD-DD1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1
16	458-002-258	IDPA DP5800 ENV CONFIG	1
17	456-113-304	IDPA BACKUP G ENABLER=CC	120
18	456-113-325	IDPA TARGET BOOST 1TB RAW ENABLER=CB	120
19	456-113-305	IDPA TARGET PROTOCOL ENABLER=CA	120
20	456-113-780	IDPA BOOST FS=CA	120
21	456-113-326	IDPA TARGET REPL 1TB RAW ENABLER=CB	120
22	456-113-306	IDPA ANALYTICS ENABLER=CB	120
23	456-113-303	IDPA BU SEARCH ENABLER=CA	1
24	456-112-812	DP APPLIANCE SOLUTION=IA	1
25	456-113-308	IDPA VREALIZE ENABLER=IA	1
26	456-113-300	IDPA CTRL FS 800GB 0.8TB RAW =CF	4
27	456-113-324	IDPA DP5800 BASE OE=IA	1
28	456-113-340	DATA PROTECTION CENTRAL=IA	1
29	456-113-302	IDPA SINGLE FED REPORTING SERVER=IA	1

30	456-113-301	IDPA BU APP ENABLER=IA	1
31	456-113-309	PLUGIN FOR IDPA VREALIZE AUTOMATION=IA	1
32	M-PSP-SW-DD-DD1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1
33	DDOS-71-DP	DDOS 7.1 IDPA=IA	1
34	IDPA_2-5	INTEGRATED DATA PROTECTION APP V2_5.X=IA	1
35	DPAPPL_5800	ANCHOR DP APPLIANCE 5800	1
36	CE-PDPPDPTC0001	1 TRAINING CREDIT VALID 1YR (PDP DP)	900
37	PS-PDP-P30IDPA	30DAYPOSTDEPLOYASSIST IDPA	1
38	PS-PDP-IDPAAEDP	PDP FOR IDPA DP5X SERIES	1
39	458-002-484	EMC GRANULAR RECOVERY MICROSOFT HIGH=CA	120
40	M-PSP-SW-DD-H1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1

B.9.7 Dell-EMC IDPA PowerProtect DP5800 – 192TB

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
IDPA PowerProtect DP5800 – 192TB			
1	DPDS60-4-240S-DP	DS60 SHELF 60X4TB SAS HDD G3 DP APPL	1
2	IDPA_CAP_PK_60TB	IDPA 60TB CAPACITY EXPANSION PACK	2
3	IDPA_DP5800_CUBE	IDPA DP5800 BASE CUBE	1
4	PC-RK30IEC3-1-DP	PWR CORD 1PH INTL RACK DL-DP APPL	1
5	DP5800CTL-DP	DP5800 BASE APPLIANCE CONTROLLER	1
6	DPRACK-1PH-DR3-DP	DP APPL RACK 40U SNGL PHASE - DELL	1
7	DPCBL-LC-OM4-10M	10 M LC TO LC CABLE KIT	2
8	DPXCVR-SFP-10GBE	XCVR 300 M SFP OPTICS	2
9	DPCMPNODE-G14-DP	DPAPPLG14COMPUTENODE	3
10	DPSWITCH-FACKIT-DP	DP APPLIANCE NETWORK SWITCH FACKIT	1
11	DPNTWK-SW-DP	DP APPLIANCE NETWORK SWITCH	1
12	DPFACINSTL5800-DP	DP5800 FACTORY INSTALL KIT	1
13	M-PSP-HW-DD-DD1	PROSUPPORT PLUS 4HR/MC HARDWARE SUPPORT	1
14	M-KYHD-DD1	KEEP YOUR HARD DRIVE FOR ENT DD	1
15	458-002-264	IDPA CAPACITY ENABLER=CB	4
16	M-PSP-SW-DD-DD1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1
17	458-002-258	IDPA DP5800 ENV CONFIG	1
18	456-113-304	IDPA BACKUP G ENABLER=CC	240
19	456-113-325	IDPA TARGET BOOST 1TB RAW ENABLER=CB	240
20	456-113-305	IDPA TARGET PROTOCOL ENABLER=CA	240
21	456-113-780	IDPA BOOST FS=CA	240
22	456-113-326	IDPA TARGET REPL 1TB RAW ENABLER=CB	240
23	456-113-306	IDPA ANALYTICS ENABLER=CB	240
24	456-113-303	IDPA BU SEARCH ENABLER=CA	1
25	456-112-812	DP APPLIANCE SOLUTION=IA	1
26	456-113-308	IDPA VREALIZE ENABLER=IA	1

27	456-113-300	IDPA CTRL FS 800GB 0.8TB RAW =CF	4
28	456-113-324	IDPA DP5800 BASE OE=IA	1
29	456-113-340	DATA PROTECTION CENTRAL=IA	1
30	456-113-302	IDPA SINGLE FED REPORTING SERVER=IA	1
31	456-113-301	IDPA BU APP ENABLER=IA	1
32	456-113-309	PLUGIN FOR IDPA VREALIZE AUTOMATION=IA	1
33	M-PSP-SW-DD-DD1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1
34	DDOS-71-DP	DDOS 7.1 IDPA=IA	1
35	IDPA_2-5	INTEGRATED DATA PROTECTION APP V2_5.X=IA	1
36	DPAPPL_5800	ANCHOR DP APPLIANCE 5800	1
37	CE-PDPDPDTC0001	1 TRAINING CREDIT VALID 1YR (PDP DP)	900
38	PS-PDP-P30IDPA	30DAYPOSTDEPLOYASSIST IDPA	1
39	PS-PDP-IDPAAEDP	PDP FOR IDPA DP5X SERIES	1
40	458-002-484	EMC GRANULAR RECOVERY MICROSOFT HIGH=CA	240
41	M-PSM-SW-DD-H1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1

B.9.8 Dell-EMC IDPA PowerProtect DP5800 – 288TB

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
IDPA PowerProtect DP5800 – 288TB			
1	DPDS60-4-240S-DP	DS60 SHELF 60X4TB SAS HDD G3 DP APPL	1
2	DPFACINSTL5800-DP	DP5800 FACTORY INSTALL KIT	1
3	IDPA_CAP_PK_60TB	IDPA 60TB CAPACITY EXPANSION PACK	4
4	IDPA_DP5800_CUBE	IDPA DP5800 BASE CUBE	1
5	PC-RK30IEC3-1-DP	PWR CORD 1PH INTL RACK DL-DP APPL	1
6	DP5800CTL-DP	DP5800 BASE APPLIANCE CONTROLLER	1
7	DPRACK-1PH-DR3-DP	DP APPL RACK 40U SNGL PHASE - DELL	1
8	DPCBL-LC-OM4-10M	10 M LC TO LC CABLE KIT	2
9	DPXCVR-SFP-10GBE	XCVR 300 M SFP OPTICS	2
10	DPCMPNODE-G14-DP	DPAPPLG14COMPUTENODE	3
11	DPSWITCH-FAKIT-DP	DP APPLIANCE NETWORK SWITCH FACKIT	1
12	DPNTWK-SW-DP	DP APPLIANCE NETWORK SWITCH	1
13	DPDS60-4-120S-DP	DS60 SHELF 30X4TB SAS HDD G3 DP APPL	1
14	M-PSP-HW-DD-DD1	PROSUPPORT PLUS 4HR/MC HARDWARE SUPPORT	1
15	M-KYHD-DD1	KEEP YOUR HARD DRIVE FOR ENT DD	1
16	458-002-264	IDPA CAPACITY ENABLER=CB	6
17	M-PSP-SW-DD-DD1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1
18	458-002-258	IDPA DP5800 ENV CONFIG	1
19	456-113-304	IDPA BACKUP G ENABLER=CC	360
20	456-113-325	IDPA TARGET BOOST 1TB RAW ENABLER=CB	360
21	456-113-305	IDPA TARGET PROTOCOL ENABLER=CA	360
22	456-113-780	IDPA BOOST FS=CA	360
23	456-113-326	IDPA TARGET REPL 1TB RAW ENABLER=CB	360
24	456-113-306	IDPA ANALYTICS ENABLER=CB	360

25	456-113-303	IDPA BU SEARCH ENABLER=CA	1
26	456-112-812	DP APPLIANCE SOLUTION=IA	1
27	456-113-308	IDPA VREALIZE ENABLER=IA	1
28	456-113-300	IDPA CTRL FS 800GB 0.8TB RAW =CF	4
29	456-113-324	IDPA DP5800 BASE OE=IA	1
30	456-113-340	DATA PROTECTION CENTRAL=IA	1
31	456-113-302	IDPA SINGLE FED REPORTING SERVER=IA	1
32	456-113-301	IDPA BU APP ENABLER=IA	1
33	456-113-309	PLUGIN FOR IDPA VREALIZE AUTOMATION=IA	1
34	M-PSP-SW-DD-DD1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1
35	DDOS-71-DP	DDOS 7.1 IDPA=IA	1
36	IDPA_2-5	INTEGRATED DATA PROTECTION APP V2_5.X=IA	1
37	DPAPPL_5800	ANCHOR DP APPLIANCE 5800	1
38	CE-PDPDPDTC0001	1 TRAINING CREDIT VALID 1YR (PDP DP)	900
39	PS-PDP-P30IDPA	30DAYPOSTDEPLOYASSIST IDPA	1
40	PS-PDP-IDPAAEDP	PDP FOR IDPA DP5X SERIES	1
41	458-002-484	EMC GRANULAR RECOVERY MICROSOFT HIGH=CA	360
42	M-PSM-SW-DD-H1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1

B.9.9 Dell-EMC IDPA PowerProtect DP8300 – 480TB

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
IDPA PowerProtect DP8300 –480TB			
1	DP8300CTL-DP	DP8300 BASE APPLIANCE CONTROLLER	1
2	DPRACK-1PH-DR3-DP	DP APPL RACK 40U SNGL PHASE - DELL	1
3	DPCBL-LC-OM4-10M	10 M LC TO LC CABLE KIT	2
4	DPXCVR-SFP-10GBE	XCVR 300 M SFP OPTICS	2
5	DP10GBTM4P-DP	DP APPLIANCE QUAD 10GB CU MANF INSTL	4
6	DP10GMOP4P-DP	DP APPL QUAD 10GB OPT-SFP MANF INSTL	4
7	DPCMPNODE-G14-DP	DPAPPLG14COMPUTENODE	3
8	DPSWITCH-FACKIT-DP	DP APPLIANCE NETWORK SWITCH FACKIT	1
9	DPNTWK-SW-DP	DP APPLIANCE NETWORK SWITCH	1
10	AVMCOMG4T-N1124TDP	DP APPLIANCE GRID G4T N1124T COMM MODULE	2
11	AVMCOMKT4TN1124TDP	DP APPLIANCE COMM MODULE FACKIT N1124T	1
12	DPAVM1200MG-DP	DP APPLIANCE GRID G4T M1200 NODE	3
13	DPAVMUTILMG-DP	DP APPLIANCE GRID G4T UTILITY NODE	1
14	DPDS60-4-120S-DP	DS60 SHELF 30X4TB SAS HDD G3 DP APPL	1
15	DPDS60-4-240S-DP	DS60 SHELF 60X4TB SAS HDD G3 DP APPL	2
16	DPFACINSTL8300-DP	DP8300 FACTORY INSTALL KIT	1
17	IDPA_CAP_PK_60TB	IDPA 60TB CAPACITY EXPANSION PACK	6
18	IDPA_DP8300_CUBE	IDPA DP8300 BASE CUBE	1
19	PC-RK30IEC3-1-DP	PWR CORD 1PH INTL RACK DL-DP APPL	2
20	M-PSP-HW-DD-DD1	PROSUPPORT PLUS 4HR/MC HARDWARE SUPPORT	1
21	M-KYHD-DD1	KEEP YOUR HARD DRIVE FOR ENT DD	1

22	458-002-264	IDPA CAPACITY ENABLER=CB	10
23	M-PSP-SW-DD-DD1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1
24	458-002-260	IDPA DP8300 ENV CONFIG	1
25	456-113-305	IDPA TARGET PROTOCOL ENABLER=CA	600
26	456-113-304	IDPA BACKUP G ENABLER=CC	600
27	456-113-306	IDPA ANALYTICS ENABLER=CB	600
28	456-113-780	IDPA BOOST FS=CA	600
29	456-113-326	IDPA TARGET REPL 1TB RAW ENABLER=CB	600
30	456-113-325	IDPA TARGET BOOST 1TB RAW ENABLER=CB	600
31	456-113-302	IDPA SINGLE FED REPORTING SERVER=IA	1
32	456-113-308	IDPA VREALIZE ENABLER=IA	1
33	456-113-340	DATA PROTECTION CENTRAL=IA	1
34	456-113-301	IDPA BU APP ENABLER=IA	1
35	456-113-309	PLUGIN FOR IDPA VREALIZE AUTOMATION=IA	1
36	456-113-327	IDPA DP8300 BASE OE=IA	1
37	456-113-303	IDPA BU SEARCH ENABLER=CA	1
38	456-112-812	DP APPLIANCE SOLUTION=IA	1
39	456-113-300	IDPA CTRL FS 800GB 0.8TB RAW =CF	8
40	M-PSP-SW-DD-DD1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1
41	DDOS-71-DP	DDOS 7.1 IDPA=IA	1
42	IDPA_2-5	INTEGRATED DATA PROTECTION APP V2_5.X=IA	1
43	DPAPPL_8300	ANCHOR DP APPLIANCE 8300	1
44	CE-PDPDPDTC0001	1 TRAINING CREDIT VALID 1YR (PDP DP)	900
45	PS-PDP-P30IDPA	30DAYPOSTDEPLOYASSIST IDPA	1
46	PS-PDP-IDPAAVDP	PDP FOR IDPA DP8X SERIES	1
47	458-002-484	EMC GRANULAR RECOVERY MICROSOFT HIGH=CA	600
48	M-PSP-SW-DD-H1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1

B.9.10 Dell-EMC IDPA PowerProtect DP8300 – 720TB

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
IDPA PowerProtect DP8300 –720TB			
1	DPDS60-4-180S-DP	DS60 SHELF 45X4TB SAS HDD G3 DP APPL	1
2	PC-RK30IEC3-1-DP	PWR CORD 1PH INTL RACK DL-DP APPL	2
3	DP8300CTL-DP	DP8300 BASE APPLIANCE CONTROLLER	1
4	DPRACK-1PH-DR3-DP	DP APPL RACK 40U SNGL PHASE - DELL	1
5	DPCBL-LC-OM4-10M	10 M LC TO LC CABLE KIT	2
6	DPXCVR-SFP-10GBE	XCVR 300 M SFP OPTICS	2
7	DP10GBTM4P-DP	DP APPLIANCE QUAD 10GB CU MANF INSTL	4
8	DP10GMOP4P-DP	DP APPL QUAD 10GB OPT-SFP MANF INSTL	4
9	DPCMPNODE-G14-DP	DPAPPLG14COMPUTENODE	3
10	DPSWITCH-FACKIT-DP	DP APPLIANCE NETWORK SWITCH FACKIT	1

11	DPNTWK-SW-DP	DP APPLIANCE NETWORK SWITCH	1
12	AVMCOMG4T-N1124TDP	DP APPLIANCE GRID G4T N1124T COMM MODULE	2
13	AVMCOMKT4TN1124TDP	DP APPLIANCE COMM MODULE FACKIT N1124T	1
14	DPAVM1200MG-DP	DP APPLIANCE GRID G4T M1200 NODE	3
15	DPAVMUTILMG-DP	DP APPLIANCE GRID G4T UTILITY NODE	1
16	DPDS60-4-240S-DP	DS60 SHELF 60X4TB SAS HDD G3 DP APPL	3
17	DPFACINSTL8300-DP	DP8300 FACTORY INSTALL KIT	1
18	IDPA_CAP_PK_60TB	IDPA 60TB CAPACITY EXPANSION PACK	11
19	IDPA_DP8300_CUBE	IDPA DP8300 BASE CUBE	1
20	M-PSP-HW-DD-DD1	PROSUPPORT PLUS 4HR/MC HARDWARE SUPPORT	1
21	M-KYHD-DD1	KEEP YOUR HARD DRIVE FOR ENT DD	1
22	458-002-264	IDPA CAPACITY ENABLER=CB	15
23	M-PSP-SW-DD-DD1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1
24	458-002-260	IDPA DP8300 ENV CONFIG	1
25	456-113-305	IDPA TARGET PROTOCOL ENABLER=CA	900
26	456-113-304	IDPA BACKUP G ENABLER=CC	900
27	456-113-306	IDPA ANALYTICS ENABLER=CB	900
28	456-113-780	IDPA BOOST FS=CA	900
29	456-113-326	IDPA TARGET REPL 1TB RAW ENABLER=CB	900
30	456-113-325	IDPA TARGET BOOST 1TB RAW ENABLER=CB	900
31	456-113-302	IDPA SINGLE FED REPORTING SERVER=IA	1
32	456-113-308	IDPA VREALIZE ENABLER=IA	1
33	456-113-340	DATA PROTECTION CENTRAL=IA	1
34	456-113-301	IDPA BU APP ENABLER=IA	1
35	456-113-309	PLUGIN FOR IDPA VREALIZE AUTOMATION=IA	1
36	456-113-327	IDPA DP8300 BASE OE=IA	1
37	456-113-303	IDPA BU SEARCH ENABLER=CA	1
38	456-112-812	DP APPLIANCE SOLUTION=IA	1
39	456-113-300	IDPA CTRL FS 800GB 0.8TB RAW =CF	8
40	M-PSP-SW-DD-DD1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1
41	DDOS-71-DP	DDOS 7.1 IDPA=IA	1
42	IDPA_2-5	INTEGRATED DATA PROTECTION APP V2_5.X=IA	1
43	DPAPPL_8300	ANCHOR DP APPLIANCE 8300	1
44	CE-PDPDPDTC0001	1 TRAINING CREDIT VALID 1YR (PDP DP)	900
45	PS-PDP-P30IDPA	30DAYPOSTDEPLOYASSIST IDPA	1
46	PS-PDP-IDPAAVDP	PDP FOR IDPA DP8X SERIES	1
47	458-002-484	EMC GRANULAR RECOVERY MICROSOFT HIGH=CA	900
48	M-PSM-SW-DD-H1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1

B.9.11 Dell-EMC IDPA PowerProtect DP8800 – 624TB

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
IDPA PowerProtect DP8800 –624TB			
1	DP8800CTL-DP	DP8800 BASE APPLIANCE CONTROLLER	1
2	PC-RK30IEC3-1-DP	PWR CORD 1PH INTL RACK DL-DP APPL	3
3	DPRACK-1PH-DR3-DP	DP APPL RACK 40U SNGL PHASE - DELL	2
4	DPCBL-LC-OM4-10M	10 M LC TO LC CABLE KIT	2
5	DPXCVR-SFP-10GBE	XCVR 300 M SFP OPTICS	2
6	DP10GMOP4P-DP	DP APPL QUAD 10GB OPT-SFP MANF INSTL	5
7	DPCMPNODE-G14-DP	DPAPPLG14COMPUTENODE	3
8	DPSWITCH-FACKIT-DP	DP APPLIANCE NETWORK SWITCH FACKIT	1
9	DPNTWK-SW-DP	DP APPLIANCE NETWORK SWITCH	1
10	DP10GBTM4P-DP	DP APPLIANCE QUAD 10GB CU MANF INSTL	5
11	AVMCOMG4T-N1124TDP	DP APPLIANCE GRID G4T N1124T COMM MODULE	2
12	AVMCOMKT4TN1124TDP	DP APPLIANCE COMM MODULE FACKIT N1124T	1
13	DPAVM1200MG-DP	DP APPLIANCE GRID G4T M1200 NODE	4
14	DPAVMUTILMG-DP	DP APPLIANCE GRID G4T UTILITY NODE	1
15	DPDS60-4-240S-DP	DS60 SHELF 60X4TB SAS HDD G3 DP APPL	3
16	DPDS60-4-60S-DP	DS60 SHELF 15X4TB SAS HDD G3 DP APPL	1
17	DPFACINSTL8800-DP	DP8800 FACTORY INSTALL KIT	1
18	DPFS15-15X800G-DP	FLASH SHELF15X800GB SSD DP APPL	1
19	IDPA_DP8800_CUBE	IDPA DP8800 BASE CUBE	1
20	M-PSP-HW-DD-DD1	PROSUPPORT PLUS 4HR/MC HARDWARE SUPPORT	1
21	M-KYHD-DD1	KEEP YOUR HARD DRIVE FOR ENT DD	1
22	458-002-262	IDPA DP8800 ENV CONFIG	1
23	456-113-780	IDPA BOOST FS=CA	780
24	456-113-325	IDPA TARGET BOOST 1TB RAW ENABLER=CB	780
25	456-113-305	IDPA TARGET PROTOCOL ENABLER=CA	780
26	456-113-306	IDPA ANALYTICS ENABLER=CB	780
27	456-113-326	IDPA TARGET REPL 1TB RAW ENABLER=CB	780
28	456-113-304	IDPA BACKUP G ENABLER=CC	780
29	456-113-303	IDPA BU SEARCH ENABLER=CA	1
30	456-113-301	IDPA BU APP ENABLER=IA	1
31	456-113-308	IDPA VREALIZE ENABLER=IA	1
32	456-113-340	DATA PROTECTION CENTRAL=IA	1
33	456-113-309	PLUGIN FOR IDPA VREALIZE AUTOMATION=IA	1
34	456-113-302	IDPA SINGLE FED REPORTING SERVER=IA	1
35	456-113-328	IDPA DP8800 BASE OE=IA	1
36	456-112-812	DP APPLIANCE SOLUTION=IA	1
37	456-113-300	IDPA CTRL FS 800GB 0.8TB RAW =CF	15
38	M-PSP-SW-DD-DD1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1
39	458-002-264	IDPA CAPACITY ENABLER=CB	13
40	M-PSP-SW-DD-DD1	PROSUPPORT PLUS 4HR/MC SOFTWARE	1

		SUPPORT	
41	DDOS-71-DP	DDOS 7.1 IDPA=IA	1
42	IDPA_2-5	INTEGRATED DATA PROTECTION APP V2_5.X=IA	1
43	DPAPPL_8800	ANCHOR DP APPLIANCE 8800	1
44	CE-PDPDPDTC0001	1 TRAINING CREDIT VALID 1YR (PDP DP)	900
45	PS-PDP-P30IDPA	30DAYPOSTDEPLOYASSIST IDPA	1
46	PS-PDP-IDPAAVDP	PDP FOR IDPA DP8X SERIES	1
47	458-002-484	EMC GRANULAR RECOVERY MICROSOFT HIGH=CA	780
48	M-PSP-SW-DD-H1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1

B.9.12 Dell-EMC IDPA PowerProtect DP8800 – 1008TB

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
IDPA PowerProtect DP8800 –1008TB			
1	DP8800CTL-DP	DP8800 BASE APPLIANCE CONTROLLER	1
2	PC-RK30IEC3-1-DP	PWR CORD 1PH INTL RACK DL-DP APPL	3
3	DPRACK-1PH-DR3-DP	DP APPL RACK 40U SNGL PHASE - DELL	2
4	DPCBL-LC-OM4-10M	10 M LC TO LC CABLE KIT	2
5	DPXCVR-SFP-10GBE	XCVR 300 M SFP OPTICS	2
6	DP10GMOP4P-DP	DP APPL QUAD 10GB OPT-SFP MANF INSTL	5
7	DPCMPNODE-G14-DP	DPAPPLG14COMPUTENODE	3
8	DPSWITCH-FACKIT-DP	DP APPLIANCE NETWORK SWITCH FACKIT	1
9	DPNTWK-SW-DP	DP APPLIANCE NETWORK SWITCH	1
10	DP10GBTM4P-DP	DP APPLIANCE QUAD 10GB CU MANF INSTL	5
11	AVMCOMG4T-N1124TDP	DP APPLIANCE GRID G4T N1124T COMM MODULE	2
12	AVMCOMKT4TN1124TDP	DP APPLIANCE COMM MODULE FACKIT N1124T	1
13	DPAVM1200MG-DP	DP APPLIANCE GRID G4T M1200 NODE	4
14	DPAVMUTILMG-DP	DP APPLIANCE GRID G4T UTILITY NODE	1
15	DPDS60-4-240S-DP	DS60 SHELF 60X4TB SAS HDD G3 DP APPL	5
16	DPDS60-4-60S-DP	DS60 SHELF 15X4TB SAS HDD G3 DP APPL	1
17	DPFACINSTL8800-DP	DP8800 FACTORY INSTALL KIT	1
18	DPFS15-15X800G-DP	FLASH SHELF15X800GB SSD DP APPL	1
19	IDPA_CAP_PK_60TB	IDPA 60TB CAPACITY EXPANSION PACK	8
20	IDPA_DP8800_CUBE	IDPA DP8800 BASE CUBE	1
21	R-DS60-SAS-5M-DP	5M X4 TO X4 MINI-SAS HD FLEX 12G	2
22	M-PSP-HW-DD-DD1	PROSUPPORT PLUS 4HR/MC HARDWARE SUPPORT	1
23	M-KYHD-DD1	KEEP YOUR HARD DRIVE FOR ENT DD	1
24	458-002-262	IDPA DP8800 ENV CONFIG	1
25	456-113-780	IDPA BOOST FS=CA	1260
26	456-113-325	IDPA TARGET BOOST 1TB RAW ENABLER=CB	1260
27	456-113-305	IDPA TARGET PROTOCOL ENABLER=CA	1260
28	456-113-306	IDPA ANALYTICS ENABLER=CB	1260
29	456-113-326	IDPA TARGET REPL 1TB RAW ENABLER=CB	1260
30	456-113-304	IDPA BACKUP G ENABLER=CC	1260

31	456-113-303	IDPA BU SEARCH ENABLER=CA	1
32	456-113-301	IDPA BU APP ENABLER=IA	1
33	456-113-308	IDPA VREALIZE ENABLER=IA	1
34	456-113-340	DATA PROTECTION CENTRAL=IA	1
35	456-113-309	PLUGIN FOR IDPA VREALIZE AUTOMATION=IA	1
36	456-113-302	IDPA SINGLE FED REPORTING SERVER=IA	1
37	456-113-328	IDPA DP8800 BASE OE=IA	1
38	456-112-812	DP APPLIANCE SOLUTION=IA	1
39	456-113-300	IDPA CTRL FS 800GB 0.8TB RAW =CF	15
40	M-PSP-SW-DD-DD1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1
41	458-002-264	IDPA CAPACITY ENABLER=CB	21
42	M-PSP-SW-DD-DD1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1
43	DDOS-71-DP	DDOS 7.1 IDPA=IA	1
44	IDPA_2-5	INTEGRATED DATA PROTECTION APP V2_5.X=IA	1
45	DPAPPL_8800	ANCHOR DP APPLIANCE 8800	1
46	CE-PDPDPDTC0001	1 TRAINING CREDIT VALID 1YR (PDP DP)	900
47	PS-PDP-P30IDPA	30DAYPOSTDEPLOYASSIST IDPA	1
48	PS-PDP-IDPAAVDP	PDP FOR IDPA DP8X SERIES	1
49	458-002-484	EMC GRANULAR RECOVERY MICROSOFT HIGH=CA	1260
50	M-PSP-SW-DD-H1	PROSUPPORT PLUS 4HR/MC SOFTWARE SUPPORT	1

B.10 NAS & Object Storage

B.10.1 Dell-EMC PowerScale F200 – 16TB SSD

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerScale F200 – 16TB SSD			
1	[210-AVLI]	PowerScale F200	4
2	[800-BBQV]	New Cluster	4
3	[406-BBQL]	FE 2x25GbE w/o Optics	4
4	[540-BCTS]	BE 2x25GbE w/o Optics	4
5	[400-BJDC]	4TB (0.96TB x 4) SSD	4
6	[370-AFIS]	48GB Memory	4
7	[450-AKCU]	0.6M Rack Power Cord C13/C14 12A	4
8	[528-CKNF]	OneFS Base License 4TB Tier 6	4
9	[528-CKNC]	OneFS Capacity License Tier 6	16
10	[528-CKPR], [528-CKQG], [528-CKQI], [528-CKSN]	Enterprise Bundle Tier 6	4
11	[528-CKQK], [528-CKQM], [528-CKQO], [528-CKSH]	Enterprise Bundle Capacity T6 Per TB	16
12	[528-CKNR]	SmartPools Base License Tier 6	4
13	[528-CKNM]	SmartQuotas Base License Tier 6	4
14	[528-CKOD]	SnapshoIQ Base License Tier 6	4
15	[528-CKOH]	SynclIQ Base License Tier 6	4

16	[528-CKKN]	HDFS for OneFS (\$0.00)	4
17	[528-CKNY]	SmartPools Capacity License Tier 6	16
18	[528-CKOE]	SmartQuotas Capacity License Tier 6	16
19	[528-CKNL]	SnapshotIQ Capacity License Tier 6	16
20	[528-CKOB]	SynclQ Capacity License Tier 6	16
21	[623-BBDX]	IDRAC Random Password	4
22	[340-CQWH]	Shipping Material	4
23	[709-BBQD]	Parts Only Warranty 12 Months, 12 Month(s)	4
24	[199-BBND], [199-BBNE]	ProSupport and 4Hr Mission Critical, 60 Month(s)	4
25	[711-BBDQ]	Keep Your Hard Drive, 60 Month(s)	4
26	[487-BFSW]	ProSupport Mission Critical OneFS Base 4TB Software Support-Maintenance, 60 Month(s)	4
27	[487-BCQK]	ProSupport Mission Critical OneFS Capacity Software Support-Maintenance, 60 Month(s)	16
28	[487-BCSY]	ProSupport Mission Critical Enterprise Bundle Base Software Support-Maintenance, 60 Month(s)	4
29	[487-BCQS]	ProSupport Mission Critical Enterprise Bundle Capacity Software Support-Maintenance, 60 Month(s)	16
30	[487-BCTH]	ProSupport Mission Critical SmartPools Base Software Support-Maintenance, 60 Month(s)	4
31	[487-BCTX]	ProSupport Mission Critical SmartQuotas Base Software Support-Maintenance, 60 Month(s)	4
32	[487-BCTL]	ProSupport Mission Critical SnapshotIQ Base Software Support-Maintenance, 60 Month(s)	4
33	[487-BCTT]	ProSupport Mission Critical SynclQ Base Software Support-Maintenance, 60 Month(s)	4
34	[487-BCUS]	ProSupport Mission Critical HDFS for OneFS Software Support-Maintenance, 60 Month(s)	4
35	[487-BCRB]	ProSupport Mission Critical SmartPools Capacity Software Support-Maintenance, 60 Month(s)	16
36	[487-BCRR]	ProSupport Mission Critical SmartQuotas Capacity Software Support-Maintenance, 60 Month(s)	16
37	[487-BCRF]	ProSupport Mission Critical SnapshotIQ Capacity Software Support-Maintenance, 60 Month(s)	16
38	[487-BCRN]	ProSupport Mission Critical SynclQ Capacity Software Support-Maintenance, 60 Month(s)	16
39	[683-24563], [706-12472]	ProDeploy Plus for PowerScale Node	4
40	[340-CRYN]	PowerScale Shipping EMEA1	4
41	[210-AXLP]	Thank you for choosing Dell	1
42	[AA977295]	SEL Superna EYEGLOSS DR MANAGER Enterprise VAPP	4
43	[AA977301]	SEL Superna MAINT Plus IGLS DR MANAGER Ent 5YR	4
44	[210-AWOU]	Z9100 Dell Networking Switch	1
45	[528-CKSR]	OS10 Enterprise Software, Z9100	1

46	[631-AAPR]	Dell EMC Z9100 Series User Guide EMEA	1
47	[750-ACVZ]	Dell Switch Field Installation Kit for S4148F, Z9100	1
48	[709-BBSZ]	Parts Only Warranty 12Months, 12 Month(s)	1
49	[199-BBND], [199-BBNE]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
50	[711-BBDQ]	Keep Your Hard Drive, 60 Month(s)	1

B.10.2 Dell-EMC PowerScale F200 – 32TB SSD

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PowerScale F200 – 16TB SSD			
1	[210-AVLI]	PowerScale F200	4
2	[800-BBQV]	New Cluster	4
3	[406-BBQL]	FE 2x25GbE w/o Optics	4
4	[540-BCTS]	BE 2x25GbE w/o Optics	4
5	[400-BJDE]	8TB (1.92TB x 4) SSD	4
6	[370-AFIS]	48GB Memory	4
7	[450-AKCU]	0.6M Rack Power Cord C13/C14 12A	4
8	[528-CKNG]	OneFS Base License 8TB Tier 6	4
9	[528-CKNC]	OneFS Capacity License Tier 6	32
10	[528-CKPR], [528-CKQG], [528-CKQI], [528-CKSN]	Enterprise Bundle Tier 6	4
11	[528-CKQK], [528-CKQM], [528-CKQO], [528-CKSH]	Enterprise Bundle Capacity T6 Per TB	32
12	[528-CKNR]	SmartPools Base License Tier 6	4
13	[528-CKNM]	SmartQuotas Base License Tier 6	4
14	[528-CKOD]	SnapshotIQ Base License Tier 6	4
15	[528-CKOH]	SyncIQ Base License Tier 6	4
16	[528-CKKN]	HDFS for OneFS (\$0.00)	4
17	[528-CKNY]	SmartPools Capacity License Tier 6	32
18	[528-CKOE]	SmartQuotas Capacity License Tier 6	32
19	[528-CKNL]	SnapshotIQ Capacity License Tier 6	32
20	[528-CKOB]	SyncIQ Capacity License Tier 6	32
21	[623-BBDX]	IDRAC Random Password	4
22	[340-CQWH]	Shipping Material	4
23	[709-BBQD]	Parts Only Warranty 12 Months, 12 Month(s)	4
24	[199-BBND], [199-BBNE]	ProSupport and 4Hr Mission Critical, 60 Month(s)	4
25	[711-BBDQ]	Keep Your Hard Drive, 60 Month(s)	4
26	[487-BFTE]	ProSupport Mission Critical OneFS Base 8TB Software Support-Maintenance, 60 Month(s)	4
27	[487-BCQK]	ProSupport Mission Critical OneFS Capacity Software Support-Maintenance, 60 Month(s)	32
28	[487-BCSY]	ProSupport Mission Critical Enterprise Bundle Base Software Support-Maintenance, 60 Month(s)	4
29	[487-BCQS]	ProSupport Mission Critical Enterprise Bundle Capacity Software Support-Maintenance, 60 Month(s)	32

30	[487-BCTH]	ProSupport Mission Critical SmartPools Base Software Support-Maintenance, 60 Month(s)	4
31	[487-BCTX]	ProSupport Mission Critical SmartQuotas Base Software Support-Maintenance, 60 Month(s)	4
32	[487-BCTL]	ProSupport Mission Critical SnapshotIQ Base Software Support-Maintenance, 60 Month(s)	4
33	[487-BCTT]	ProSupport Mission Critical SyncIQ Base Software Support-Maintenance, 60 Month(s)	4
34	[487-BCUS]	ProSupport Mission Critical HDFS for OneFS Software Support-Maintenance, 60 Month(s)	4
35	[487-BCRB]	ProSupport Mission Critical SmartPools Capacity Software Support-Maintenance, 60 Month(s)	32
36	[487-BCRR]	ProSupport Mission Critical SmartQuotas Capacity Software Support-Maintenance, 60 Month(s)	32
37	[487-BCRF]	ProSupport Mission Critical SnapshotIQ Capacity Software Support-Maintenance, 60 Month(s)	32
38	[487-BCRN]	ProSupport Mission Critical SyncIQ Capacity Software Support-Maintenance, 60 Month(s)	32
39	[683-24563], [706-12472]	ProDeploy Plus for PowerScale Node	4
40	[340-CRYN]	PowerScale Shipping EMEA1	4
41	[210-AXLP]	Thank you for choosing Dell	1
42	[AA977295]	SEL Superna EYEGLASS DR MANAGER Enterprise VAPP	4
43	[AA977301]	SEL Superna MAINT Plus IGLS DR MANAGER Ent 5YR	4
44	[210-AWOU]	Z9100 Dell Networking Switch	1
45	[528-CKSR]	OS10 Enterprise Software, Z9100	1
46	[631-AAPR]	Dell EMC Z9100 Series User Guide EMEA	1
47	[750-ACVZ]	Dell Switch Field Installation Kit for S4148F, Z9100	1
48	[709-BBSZ]	Parts Only Warranty 12Months, 12 Month(s)	1
49	[199-BBND], [199-BBNE]	ProSupport and 4Hr Mission Critical, 60 Month(s)	1
50	[711-BBDQ]	Keep Your Hard Drive, 60 Month(s)	1

B.10.3 Dell-EMC Isilon F800 Cluster– 660TB SSD

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
Isilon F800 Cluster– 660TB SSD			
1	ICH-NORM-F800	BASE CHASSIS - NORMAL - F800/F810	1
2	800-0078	PWCRD KIT FOR GEN6 NORMAL CHASSIS	2
3	IF800-7.7T	F800-2.6GHZ/16C/256G+15X7.7TB SSD	4
4	IBEIO-40GBE-F	2X40GBE QSFP+ BACK END F800 W/O OPTICS	4
5	IFEIO-10GBE-F	2X10GBE SFP+ - F800/F810 W/O OPTICS	4
6	851-0316	B/E SWITCH 40GBE 32P QSFP28 Z9100 W/OS	2
7	M-PSM-HW-I-002	PROSUPPORT 4HR/MC HARDWARE SUPPORT	1
8	EYEGLASS-P015	SEL-SUPERNA-EYEGLASS DR QUICK START	1
9	M-KYHD-I02	KEEP YOUR HARD DRIVE FOR ENT ISILON 6	1

10	458-001-969	HDFS FOR ONEFS 0.00	4
11	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
12	458-001-956	ENTERPRISE BUNDLE TIER 1=ID	4
13	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
14	458-001-957	ENTERPRISE BUNDLE CAPACITY T1 PER TB=CB	464
15	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
16	458-001-863	ONEFS PRODUCT	1
17	456-111-834	ONEFS BASE LICENSE TIER 1=ID	4
18	456-111-838	ONEFS CAPACITY LICENSE TIER 1=CB	464
19	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
20	458-001-942	SNAPSHOTIQ	1
21	456-112-008	SNAPSHOTIQ CAPACITY LICENSE TIER 1 =CB	464
22	456-112-004	SNAPSHOTIQ BASE LICENSE TIER 1=ID	4
23	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
24	458-001-944	SYNCIQ	1
25	456-112-024	SYNCIQ CAPACITY LICENSE TIER 1 =CB	464
26	456-112-020	SYNCIQ BASE LICENSE TIER 1=ID	4
27	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
28	458-001-941	SMARTPOOLS	1
29	456-112-000	SMARTPOOLS CAPACITY LICENSE TIER 1 =CB	464
30	456-111-996	SMARTPOOLS BASE LICENSE TIER 1=ID	4
31	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
32	458-001-945	SMARTQUOTAS	1
33	456-112-032	SMARTQUOTAS CAPACITY LICENSE TIER 1 =CB	464
34	456-112-028	SMARTQUOTAS BASE LICENSE TIER 1=ID	4
35	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
36	CE-PDPISLTC0001	1 TRAINING CREDIT VALID 1YR (PDP ISL)	1200
37	PS-PDP-PSC1NDP	PDP FOR ISILON	4
38	PS-PDPAD-PSCADVDP	PDP ADDON, ISILON ADVANCED BUNDLE	1
39	EGL-ENT-NODE-3Y	SEL MAINT EYEGLASS DR MANAGER ENT 3YR	4
40	EGL-ENT-NODE-LIC	SEL EYEGLASS DR MANAGER ENTERPRISE VAPP	4

B.10.4 Dell-EMC Isilon H500 Cluster– 360TB SSD

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
Isilon H500 Cluster– 360TB SSD			
1	ICH-NORM	BASE CHASSIS - NORMAL	2
2	IFILL-NODE-NORM	NODE FILLER WITH NORMAL SLEDS	2
3	IFEIO-10GBE	2X10GBE SFP+ W/O OPTICS	6
4	IH500-4T-1.6T	H500-2.2GHZ/10C/128G+15X4TB SAT/1.6TB	6
5	800-0078	PWCRD KIT FOR GEN6 NORMAL CHASSIS	3
6	IBEIO-40GBE	2X40GBE QSFP+ BACK END W/O OPTICS	6
7	851-0316	B/E SWITCH 40GBE 32P QSFP28 Z9100 W/OS	2
8	M-PSM-HW-I-002	PROSUPPORT 4HR/MC HARDWARE SUPPORT	1

9	EYEGLOSS-P015	SEL-SUPERNA-EYEGLOSS DR QUICK START	1
10	M-KYHD-I02	KEEP YOUR HARD DRIVE FOR ENT ISILON 6	1
11	458-001-863	ONEFS PRODUCT	1
12	456-111-836	ONEFS BASE LICENSE TIER 3=ID	6
13	456-111-840	ONEFS CAPACITY LICENSE TIER 3 =CB	360
14	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
15	458-001-866	ENTERPRISE BUNDLE TIER 3=ID	6
16	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
17	458-001-867	ENTERPRISE BUNDLE CAPACITY T3 PER TB=CB	360
18	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
19	458-001-969	HDFS FOR ONEFS 0.00	6
20	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
21	458-001-942	SNAPSHOTIQ	1
22	456-112-010	SNAPSHOTIQ CAPACITY LICENSE TIER 3 =CB	360
23	456-112-006	SNAPSHOTIQ BASE LICENSE TIER 3=ID	6
24	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
25	458-001-944	SYNCIQ	1
26	456-112-026	SYNCIQ CAPACITY LICENSE TIER 3 =CB	360
27	456-112-022	SYNCIQ BASE LICENSE TIER 3=ID	6
28	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
29	458-001-941	SMARTPOOLS	1
30	456-112-002	SMARTPOOLS CAPACITY LICENSE TIER 3 =CB	360
31	456-111-998	SMARTPOOLS BASE LICENSE TIER 3=ID	6
32	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
33	458-001-945	SMARTQUOTAS	1
34	456-112-034	SMARTQUOTAS CAPACITY LICENSE TIER 3 =CB	360
35	456-112-030	SMARTQUOTAS BASE LICENSE TIER 3=ID	6
36	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
37	CE-PDPISLTC0001	1 TRAINING CREDIT VALID 1YR (PDP ISL)	1800
38	PS-PDP-PSC1NDP	PDP FOR ISILON	6
39	PS-PDPAD-PSCADVDP	PDP ADDON, ISILON ADVANCED BUNDLE	1
40	EGL-ENT-NODE-LIC	SEL EYEGLOSS DR MANAGER ENTERPRISE VAPP	6
41	EGL-ENT-NODE-3Y	SEL MAINT EYEGLOSS DR MANAGER ENT 3YR	6

B.10.5 Dell-EMC Isilon H500 Cluster– 360TB SSD

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
Isilon H500 Cluster– 360TB SSD			
1	ICH-NORM	BASE CHASSIS - NORMAL	2
2	IFILL-NODE-NORM	NODE FILLER WITH NORMAL SLEDS	2
3	IFEIO-10GBE	2X10GBE SFP+ W/O OPTICS	6
4	IA200-4T-400G	A200-2.2GHZ/2C/16G+15X4TB SAT/400GB	6
5	800-0078	PWCRD KIT FOR GEN6 NORMAL CHASSIS	3

6	IBEIO-10GBE	2X10GBE SFP+ BACK END W/O OPTICS	6
7	851-0316	B/E SWITCH 40GBE 32P QSFP28 Z9100 W/OS	2
8	M-PSM-HW-I-002	PROSUPPORT 4HR/MC HARDWARE SUPPORT	1
9	EYEGLOSS-P015	SEL-SUPERNA-EYEGLOSS DR QUICK START	1
10	M-KYHD-I02	KEEP YOUR HARD DRIVE FOR ENT ISILON 6	1
11	458-001-863	ONEFS PRODUCT	1
12	456-111-837	ONEFS BASE LICENSE TIER 4=ID	6
13	456-111-841	ONEFS CAPACITY LICENSE TIER 4 =CB	360
14	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
15	458-001-962	ENTERPRISE BUNDLE TIER 4=ID	6
16	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
17	458-001-963	ENTERPRISE BUNDLE CAPACITY T4 PER TB=CB	360
18	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
19	458-001-969	HDFS FOR ONEFS 0.00	6
20	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
21	458-001-942	SNAPSHOTIQ	1
22	456-112-011	SNAPSHOTIQ CAPACITY LICENSE TIER 4 =CB	360
23	456-112-007	SNAPSHOTIQ BASE LICENSE TIER 4=ID	6
24	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
25	458-001-944	SYNCIQ	1
26	456-112-027	SYNCIQ CAPACITY LICENSE TIER 4 =CB	360
27	456-112-023	SYNCIQ BASE LICENSE TIER 4=ID	6
28	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
29	458-001-941	SMARTPOOLS	1
30	456-112-003	SMARTPOOLS CAPACITY LICENSE TIER 4 =CB	360
31	456-111-999	SMARTPOOLS BASE LICENSE TIER 4=ID	6
32	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
33	458-001-945	SMARTQUOTAS	1
34	456-112-035	SMARTQUOTAS CAPACITY LICENSE TIER 4 =CB	360
35	456-112-031	SMARTQUOTAS BASE LICENSE TIER 4=ID	6
36	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
37	CE-PDPISLTC0001	1 TRAINING CREDIT VALID 1YR (PDP ISL)	1800
38	PS-PDP-PSC1NDP	PDP FOR ISILON	6
39	PS-PDPAD-PSCADVDP	PDP ADDON, ISILON ADVANCED BUNDLE	1
40	EGL-ENT-NODE-LIC	SEL EYEGLOSS DR MANAGER ENTERPRISE VAPP	6
41	EGL-ENT-NODE-3Y	SEL MAINT EYEGLOSS DR MANAGER ENT 3YR	6

B.10.6 Qumulo cluster of 4 x Apollo4200-Gen10-90TB

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
		(total of 200TB usable capacity) with 3Y subscription-based licenses	
1	R3W48A	HPE Apollo 4200 Gen10 90TB Hybrid Node for Qumulo	1
2	817753-B21	HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter	1

3	817753-B21 0D1	Factory Integrated	1
4	R0G89AAE	Qumulo Installation and Advanced Training Service per Day	1
5	R0G83AAE	Qumulo File Fabric 1TB Tier H1 36-month Subscription and Support E-LTU	90
6	HA113A1	HPE Installation SVC	1
7	HA113A1 58Y	HPE Apollo 2000/4200 Install Service	1
8	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
9	HT7A6A3 XMZ	HPE Apollo 4200 Gen10 Support	1
10	JL294A	HPE X240 25G SFP28 to SFP28 1m Direct Attach Copper Cable	2

B.10.7 Dell-EMC Object Storage – ECS EX300 – 432TB

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
ECS EX300 – 432TB			
1	ES6-PS-SW25GB-BE-X	EX300/500 SWITCH SW25GB HA BACK END FLD	2
2	ES6-PS-SVP-48TB-X	EX300 PERF NODE 12X4TB FLD	9
3	ES6-PS-PSNT	EX300 PRODUCT SERIAL NUMBER TAG	1
4	ES6-PS-SW25GB-FE-X	EX300/500 SWITCH SW25GB FRONT END FLD	2
5	ES6-PS-3M-FE-KTS	EX300 CABLE KIT 3M FRONT END	9
6	ES6-PS-3M-BE-KTS	EX300 CABLE KIT 3M BACK END	9
7	ES6-10GB-SR	MODULE 10GB SR	1
8	M-PSM-HW-IS2-5Y	PROSUPPORT 4HR/MC HARDWARE SUPPORT-5 YR	1
9	M-KYHD-E5Y	KEEP YOUR HARD DRIVE FOR ENT 5Y	1
10	ECS6-SLES	ECS6 SUSE LINUX ENTPRSE SERVER OS TRCK	1
11	458-002-435	ECS CAPACITY LICENSE EX 1TB=CB	1
12	456-113-588	ECS D RE CAPACITY LICENSE EX 1TB=CB	1
13	456-113-587	ECS CAPACITY LICENSE EX 1TB=CB	432
14	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
15	458-002-434	ECS BASE LICENSE EX=ID	1
16	456-113-586	ECS BASE LICENSE EX=ID	9
17	M-PSM-SW-I-002	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
18	PS-PDPAD-ECS3CANIN	PDP ADDON, FOR ECS 2U ADD ONE NODE	8
19	PS-PDP-P30ECS	30DAYPOSTDEPLOYASSIST ECS	1
20	CE-PDPECSTC0001	1 TRAINING CREDIT VALID 1YR (PDP ECS)	2200
21	PS-PDP-ECSEX300DP	PDP FOR ECS 2U	1
22	PS-PDPAD-ECS3CCRIN	PDP ADDON, ECS 2U NODE ADD RACK CABLE	9

B.10.8 Scality cluster of 3 x Apollo4200-Gen10-480TB

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
Apollo4200-Gen10-480TB			
1	P07244-B21	HPE Apollo 4200 Gen10 24LFF Configure-to-order Server	3
2	P07904-L21	Intel Xeon-Silver 4210 (2.2GHz/10-core/85W) FIO Processor Kit for HPE Apollo 4200 Gen10.	3

3	P07904-B21	Intel Xeon-Silver 4210 (2.2GHz/10-core/85W) Processor Kit for HPE Apollo 4200 Gen10	3
4	P07904-B21 OD1	Factory Integrated	3
5	P00924-K21	HPE 32GB (1x32GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	18
6	P00924-K21 OD1	Factory Integrated	18
7	P07943-B21	HPE Apollo 4200 Gen10 4LFF Rear Drive Cage Kit	3
8	P07943-B21 OD1	Factory Integrated	3
9	833926-K21	HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD	6
10	833926-K21 OD1	Factory Integrated	6
11	P04531-K21	HPE 800GB SAS 12G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD	6
12	P04531-K21 OD1	Factory Integrated	6
13	P23608-K21	HPE 16TB SAS 12G Business Critical 7.2K LFF (3.5in) LP 1yr Wty 512e ISE HDD	30
14	P23608-K21 OD1	Factory Integrated	30
15	P01367-B21	HPE 96W Smart Storage Lithium-ion Battery with 260mm Cable Kit	3
16	P01367-B21 OD1	Factory Integrated	3
17	869083-B21	HPE Smart Array P816i-a SR Gen10 (16 Int Lanes/4GB Cache/SmartCache) 12G SAS Modular LH Controller	3
18	869083-B21 OD1	Factory Integrated	3
19	727055-B21	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	3
20	727055-B21 OD1	Factory Integrated	3
21	865414-B21	HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	6
22	865414-B21 OD1	Factory Integrated	6
23	813546-B21	HPE 2nd Cage FIO Controller Mode for Rear Storage	3
24	822640-B21	HPE Apollo 4200 Gen9 FIO Strap Shipping Bracket	3
25	822731-B21	HPE 2U Shelf-Mount Adjustable Rail Kit	3
26	822731-B21 OD1	Factory Integrated	3
27	AC114A	HPE ProLiant Door/dock Medium Logistic Service	3
28	P8Y95AAE	Scality RING Installation Package (up to 3 Geographical Sites) E-LTU	1
29	P8Z01AAE	Scality RING 24/7 Maintenance and Support Single Site per TB (Min 200TB) per year E-LTU	1065
30	P8Y90AAE	Scality RING Single Site Hardware Lifetime License per TB (Min 200TB) E-LTU for HPE Servers	355
31	JL271A	HPE X240 100G QSFP28 to QSFP28 1m Direct Attach Copper Cable	6
32	HA113A1	HPE Installation SVC	1
33	HA113A1 58Y	HPE Apollo 2000/4200 Install Service	3
34	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
35	HT7A6A3 XMZ	HPE Apollo 4200 Gen10 Support	3

B.11 HCI

B.11.1 Dell-EMC VxRail Cluster – P570F

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
VxRail Cluster – P570F			
1	[210-APXS], [325-BCVU], [329-BDWH]	VxRail P570F, All Flash	1
2	[384-BCOS], [634-BWXT]	VxRail Software 4.7.410 Factory Install	1
3	[379-BDYQ]	HCI System Software Tier as part of VxRail and vSAN license through VxRail ordering	1

		path/VMware ELA	
4	[321-BDRB]	Chassis with up to 24 x 2.5 Hard Drives including max of 4 NVMe Drives, 2CPU configuration	1
5	[338-BRVO]	Intel® Xeon® Gold 6248 2.5G, 20C/40T, 10.4GT/s, 27.5M Cache, Turbo, HT (150W) DDR4-2933	1
6	[338-BRVO], [379-BDCO]	Intel® Xeon® Gold 6248 2.5G, 20C/40T, 10.4GT/s, 27.5M Cache, Turbo, HT (150W) DDR4-2933	1
7	[370-AEPP]	2933MT/s RDIMMs	1
8	[370-AEQH]	32GB RDIMM, 2933MT/s, Dual Rank	12
9	[540-BBUY]	Intel X550 Quad Port 10GbE BASE-T, rNDC	1
10	[400-BCOV]	3.84TB SSD SAS Mixed use 12Gbps 512e 2.5in Hot-Plug PM5-V Drive, 3 DWPD, 21024 TBW	6
11	[400-BDGV]	800GB SSD SAS Write Intensive 12Gbps 512e 2.5in Hot Plug Drive, PM5-M, 10 DWPD, 14600 TBW	2
12	[400-ADTI]	Diskless PowerEdge Express Flash PCIeSSD Configuration	1
13	[634-BWYB]	VxRail HCI System software, Capacity Drive, 3.84TB SSD SAS Mixed Use	6
14	[461-AAEM]	Trusted Platform Module 2.0	1
15	[770-BBBR]	ReadyRails™ Sliding Rails With Cable Management Arm	1
16	[450-ADWM]	Dual, Hot-plug, Redundant Power Supply (1+1), 1100W	1
17	[450-AADY]	Rack Power Cord 2M (C13/C14 10A)	2
18	[634-BSLD]	VxRail VMware, vSAN Enterprise, 5 Years	2
19	[634-BSKH]	VxRail HCI System Software, All-Flash, E	2
20	[634-BWRZ]	HCIA RecoverPoint for VMWare for 1 node VT	1
21	[330-BBMB]	Riser Config 6, 5 x8, 3 x16 slots for P/V570	1
22	[329-BEIK]	PowerEdge R740/R740XD Motherboard	1
23	[412-AAIR], [412-AAIR]	2 Standard Heatsinks for greater than 125W CPUs (no MB or GPU)	1
24	[370-AAIP]	Performance Optimized	1
25	[780-BCJC]	No RAID for P/V570	1
26	[405-AANK]	PERC HBA330 RAID Controller, 12Gb Adapter, Low Profile	1
27	[403-BBRR]	BOSS controller card + with 2 M.2 Sticks 240G (RAID 1),FH	1
28	[385-BBKT]	iDRAC9,Enterprise	1
29	[379-BCQY]	iDRAC Group Manager, Disabled	1
30	[379-BCRF]	iDRAC,Legacy Password,OEM	1
31	[379-BCRB]	DHCP with Zero Touch Configuration	1
32	[470-ACHC]	VxRail 10Gb BASE-T Cable Kit	1
33	[385-BBLE]	IDSDM and Combo Card Reader	1
34	[385-BBCF], [385-BBKI], [385-BBKI]	2x 64GB microSDHC/SDXC Card	1
35	[384-BBPY]	6 Standard Fans for R740/740XD	1

36	[350-BBNR]	VxRail P/V/S 570 Bezel	1
37	[350-BBJV]	No Quick Sync	1
38	[384-BBBL]	Performance BIOS Setting	1
39	[800-BBDM]	UEFI BIOS Boot Mode with GPT Partition	1
40	[387-BBEY]	No Energy Star	1
41	[350-BBNT]	VxRail P570F Luggage Tag	1
42	[709-BBEW]	Parts Only Warranty 12 Months, 12 Month(s)	1
43	[865-BBHV], [865-BBHW]	ProSupport and 4Hr Mission Critical VSAN Flash Enterprise, 60 Month(s)	1
44	[683-21488], [683-21489], [706-12904]	ProDeploy Plus Dell EMC VxRail	1
45	[821-19291]	5Yr ProSupport w/ Mission Critical, Software Support	1
46	[631-ABPQ]	SHIP, P/V/S 570 EMEA 2	1
47	[343-BBFG]	PowerEdge R740 Shipping Material	1
48	[631-AACK]	No Systems Documentation, No OpenManage DVD Kit	1
49	[711-13806]	5Yr Data Protection - Keep Your Hard Drive	1

B.12 Data Protection/Backup Software

B.12.1 Dell-EMC PowerProtect Data Manager – Socked Bases – 10 Sockets

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PPDM Socket Based – 10 Sockets			
1	458-002-401	POWERPROTECT CYBER RECOVERY=IC	1
2	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
3	458-002-701	VPROTECT SOCKET=IA	10
4	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
5	458-002-618	CLOUD DISASTER RECOVERY=CC	1
6	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
7	458-002-402	POWERPROTECT DATA MANAGER SOCKET=IA	10
8	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
9	458-002-410	POWERPROTECT STORAGE DIRECT DD VD=IA	1
10	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
11	458-002-619	VREALIZE=IA	1
12	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
13	458-002-705	POWERPROTECT DATA MANAGER=CA	10
14	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1

B.12.2 Dell-EMC PowerProtect Data Manager – Socked Bases – 25 Sockets

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PPDM Socket Based – 25 Sockets			
1	458-002-410	POWERPROTECT STORAGE DIRECT DD VD=IA	1
2	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
3	458-002-402	POWERPROTECT DATA MANAGER SOCKET=IA	25
4	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1

5	458-002-701	VPROTECT SOCKET=IA	25
6	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
7	458-002-619	VREALIZE=IA	1
8	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
9	458-002-401	POWERPROTECT CYBER RECOVERY=IC	1
10	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
11	458-002-618	CLOUD DISASTER RECOVERY=CC	1
12	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
13	458-002-705	POWERPROTECT DATA MANAGER=CA	25
14	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1

B.12.3 Dell-EMC PowerProtect Data Manager – Capacity Based – 25TB

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PPDM Capacity Based – 25TB			
1	458-002-618	CLOUD DISASTER RECOVERY=CC	1
2	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
3	458-002-401	POWERPROTECT CYBER RECOVERY=IC	1
4	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
5	458-002-400	RECOVERPOINT FOR VMS=IB	250
6	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
7	458-002-704	POWERPROTECT DATA MANAGER TB=CA	25
8	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
9	458-002-619	VREALIZE=IA	1
10	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
11	458-002-700	VPROTECT TB=CA	25
12	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
13	458-002-410	POWERPROTECT STORAGE DIRECT DD VD=IA	1
14	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1

B.12.4 Dell-EMC PowerProtect Data Manager – Capacity Based – 50TB

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
PPDM Capacity Based – 50TB			
1	458-002-619	VREALIZE=IA	1
2	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
3	458-002-400	RECOVERPOINT FOR VMS=IB	500
4	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
5	458-002-700	VPROTECT TB=CA	50
6	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
7	458-002-704	POWERPROTECT DATA MANAGER TB=CA	50
8	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
9	458-002-401	POWERPROTECT CYBER RECOVERY=IC	1
10	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
11	458-002-618	CLOUD DISASTER RECOVERY=CC	1
12	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1
13	458-002-410	POWERPROTECT STORAGE DIRECT DD VD=IA	1
14	M-PSM-SW-DD-M1	PROSUPPORT 4HR/MC SOFTWARE SUPPORT	1

B.12.5 Veeam Backup and Replication Software

#	Item	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1.		P-VBRPLS-VS-P0000-00	Veeam Backup & Replication Enterprise Plus for VMware - Public Sector	1

B.12.6 Veeam Availability Suite Software

#	Item	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1.		P-VASPLS- VS-P0000-00	Veeam Availability Suite Enterprise Plus for VMware - Public Sector	1

B.13 SAN Switch (HPE)**B.13.1 SAN Switch SN3600B (16Gb Fibre Channel; 24/8 – 24 ports capable; 8-ports active)**

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1	R4G55A	HPE SN3600B 16Gb 24/8 8-port Short Wave SFP+ Fibre Channel Switch	1
2	R4G55A 05Y	2.4m Jumper (IEC320 C13/C14 M/F CEE 22)	1
3	AG466A	HPE Small Standard Delivery-Door/Dock Service	1
4	HA113A1	HPE Installation SVC	1
5	HA113A1 5GA	HPE LowEnd SAN/Edge Switch/HAFM Inst SVC	1
6	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
7	HT7A6A3 ZHF	HPE SN3600B 32Gb FC Switch Support	1
8	QK734A	HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	8

B.13.2 SAN Switch SN6600B (32Gb Fibre Channel; 48-ports capable; 24-ports active; Power Pack+ functionality)

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1	Q0U59B	HPE SN6600B 32Gb 48/24 Power Pack+ 24-port 32Gb Short Wave SFP+ Integrated FC Switch	1
2	Q0U59B 05Y	2.4m Jumper (IEC320 C13/C14 M/F CEE 22)	1
3	AG467A	HPE Medium Standard Delivery-Door/Dock Service	1
4	HA113A1	HPE Installation SVC	1
5	HA113A1 5GA	HPE LowEnd SAN/Edge Switch/HAFM Inst SVC	1
6	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
7	HT7A6A3 ZHZ	HPE SN6600B 32Gb 48/48 PP Switch Support	1
8	QK734A	HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	24

B.14 Tape Library (HPE)**B.14.1 MSL6480 physical tape library with 4 drives LTO8; 160 slots; 100 tapes**

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1	QU625A	HPE StoreEver MSL6480 Scalable Base Module	1
2	P1F60A	HPE Inside Unpack/Clean Up XL SVC	1
3	Q6Q67A	HPE StoreEver MSL LTO-8 Ultrium 30750 FC Drive Upgrade Kit	4
4	QU626A	HPE StoreEver MSL6480 Scalable Expansion Module	1
5	TC444AAE	HPE StoreEver MSL6480 Command View TL E-LTU	1
6	Q2078AN	HPE LTO-8 Ultrium 30TB RW Non Custom Labeled Library Pack 20 Data Cartridges with Cases	5
7	HA113A1	HPE Installation SVC	1
8	HA113A1 5DU	HPE StoreEver Driv PwrSupCrd Install SVC	4
9	HA114A1	HPE Installation and Startup Service	1
10	HA114A1 5UE	HPE StoreEver MSL6480 Base M Startup SVC	1
11	HA114A1 5UF	HPE StoreEver MSL6480 Expa M Startup SVC	1
12	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
13	HT7A6A3 QC6	HPE MSL6480 Base Support	1
14	HT7A6A3 QC7	HPE MSL6480 Expansion Support	1
15	HT7A6A3 QC8	HPE MSL6480 Cmand Vew TL Support	1

B.14.2 Tape Library (HP): HP MSL3040 Tape Library

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1	Q6Q62B	HPE StoreEver MSL3040 Scalable Library Base Module	1
2	Q6Q64A	HPE StoreEver MSL3040 Upgrade Power Supply Kit	1
3	Q6Q64A 0D1	Factory Integrated	1
4	Q6Q67A	HPE StoreEver MSL LTO-8 Ultrium 30750 FC Drive Upgrade Kit	2
5	AG467A	HPE Medium Standard Delivery-Door/Dock Service	1
6	HA114A1	HPE Installation and Startup Service	1
7	HA114A1 5DS	HPE StoreEver MSL2024/4048/3040 Stup SVC	1
8	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
9	HT7A6A3 YJR	HPE MSL 3040 Base Module Support	1
10	Q2078AN	HPE LTO-8 Ultrium 30TB RW Non Custom Labeled Library Pack 20 Data Cartridges with Cases	2
11	HA113A1	HPE Installation SVC	1
12	HA113A1 5DU	HPE StoreEver Driv PwrSupCrd Install SVC	2

B.15 StoreOnce (HPE)**B.15.1 StoreOnce 3620 with max. of 32TB native usable capacity, 2 x FC-connection; 2 x Eth-connection**

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1	BB954A	HPE StoreOnce 3620 24TB System	1
2	BB982A	HPE StoreOnce Gen4 10/25Gb SFP Network Card	1
3	BB982A 0D1	Factory Integrated	1
4	BB990A	HPE StoreOnce Gen4 32Gb Fibre Channel Network Card	1
5	BB990A 0D1	Factory Integrated	1
6	BB961A	HPE StoreOnce 3620 24TB Capacity Upgrade LTU	1
7	BB961A 0D1	Factory Integrated	1
8	BB983A	HPE StoreOnce Gen4 10/25Gb SFP Network Card LTU	1
9	BB983A 0D1	Factory Integrated	1
10	BB991A	HPE StoreOnce Gen4 32Gb Fibre Channel Network Card LTU	1
11	BB991A 0D1	Factory Integrated	1
12	BB960A	HPE StoreOnce 3620 24TB Capacity Upgrade Kit	1
13	BB960A 0D1	Factory Integrated	1
14	AG466A	HPE Small Standard Delivery-Door/Dock Service	1
15	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
16	HT7A6A3 ZH3	HPE StoreOnce 3620 24TB Cap Upg Kit Supp	1
17	HT7A6A3 ZGY	HPE StoreOnce 3620 24TB System Support	1
18	HA124A1	HPE Technical Installation Startup SVC	1
19	HA124A1 5VF	HPE StoreOnce 36xx Stup SVC	1

B.15.2 StoreOnce 3640 with max. of 108TB native usable capacity, 2 x FC-connection; 2 x Eth-connection

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1	BB955A	HPE StoreOnce 3640 48TB System	1
2	BB982A	HPE StoreOnce Gen4 10/25Gb SFP Network Card	1
3	BB982A 0D1	Factory Integrated	1
4	BB990A	HPE StoreOnce Gen4 32Gb Fibre Channel Network Card	1
5	BB990A 0D1	Factory Integrated	1
6	BB963A	HPE StoreOnce 3640 48TB Capacity Upgrade LTU	2
7	BB963A 0D1	Factory Integrated	2
8	BB983A	HPE StoreOnce Gen4 10/25Gb SFP Network Card LTU	1
9	BB983A 0D1	Factory Integrated	1
10	BB991A	HPE StoreOnce Gen4 32Gb Fibre Channel Network Card LTU	1
11	BB991A 0D1	Factory Integrated	1
12	BB962A	HPE StoreOnce 3640 48TB Capacity Upgrade Kit	2
13	BB962A 0D1	Factory Integrated	2

14	AG466A	HPE Small Standard Delivery-Door/Dock Service	1
15	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
16	HT7A6A3 ZH4	HPE StoreOnce 3640 48TB Cap Upg Kit Supp	2
17	HT7A6A3 ZGZ	HPE StoreOnce 3640 48TB System Support	1
18	HA124A1	HPE Technical Installation Startup SVC	1
19	HA124A1 5VF	HPE StoreOnce 36xx Stup SVC	1

B.15.3 StoreOnce 5200 with max. of 216TB native usable capacity, 2 x FC-connection; 2 x Eth-connection

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1	BB956A	HPE StoreOnce 5200 Base System	1
2	BB982A	HPE StoreOnce Gen4 10/25Gb SFP Network Card	1
3	BB982A 0D1	Factory Integrated	1
4	BB990A	HPE StoreOnce Gen4 32Gb Fibre Channel Network Card	1
5	BB990A 0D1	Factory Integrated	1
6	BB965A	HPE StoreOnce 5200 48TB Capacity Upgrade LTU	6
7	BB965A 0D1	Factory Integrated	6
8	BB983A	HPE StoreOnce Gen4 10/25Gb SFP Network Card LTU	1
9	BB983A 0D1	Factory Integrated	1
10	BB991A	HPE StoreOnce Gen4 32Gb Fibre Channel Network Card LTU	1
11	BB991A 0D1	Factory Integrated	1
12	BB964A	HPE StoreOnce 5200 48TB Capacity Upgrade Kit	6
13	BB964A 0D1	Factory Integrated	6
14	AG467A	HPE Medium Standard Delivery-Door/Dock Service	1
15	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
16	HT7A6A3 ZH5	HPE StoreOnce 5200 48TB Cap Upg Kit Supp	6
17	HT7A6A3 ZH0	HPE StoreOnce 5200 Base System Support	1
18	HA124A1	HPE Technical Installation Startup SVC	1
19	HA124A1 5VL	HPE StoreOnce 5200 Stup SVC	1

B.16 SAN Accessories (HPE)

B.16.1 Mini-SAS HD 4x cable 1m

#	Item	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1.	Cables	716195-B21	HP External 1.0m (3ft) Mini-SAS HD 4x to Mini-SAS HD 4x Cable	1

B.16.2 HPE 10m Mini SAS High Density Active Optical Cable (12)

#	Item	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1.	Cable	E7V95A	HP 10m Mini SAS High Density Active Optical Cable	1

B.16.3 Primera Cabling and Spares

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1	N9Z50A	HPE Primera 600 2U 24-disk SFF Drive Enclosure	1
2	R0P95A	HPE Primera 600 1.92TB SAS SFF (2.5in) SSD	2
3	R0P95A 0D1	Factory Integrated	2
4	R0P96A	HPE Primera 600 3.84TB SAS SFF (2.5in) SSD	2
5	R0P96A 0D1	Factory Integrated	2
6	R0P97A	HPE Primera 600 7.68TB SAS SFF (2.5in) SSD	2
7	R0P97A 0D1	Factory Integrated	2
8	R0Q05A	HPE Primera 600 2.4TB SAS 10K SFF (2.5in) HDD	2
9	R0Q05A 0D1	Factory Integrated	2
10	581817-B21	HPE Configurator Defined Build Instruction Option	1
11	N9Z51A	HPE Primera 600 2U 12-disk LFF Drive Enclosure	1
12	R0Q03A	HPE Primera 600 8TB SAS 7.2K LFF (3.5in) HDD	2
13	R0Q03A 0D1	Factory Integrated	2
14	R0Q15A	HPE Primera 600 14TB SAS 7.2K LFF (3.5in) HDD	2
15	R0Q15A 0D1	Factory Integrated	2
16	N9Z39A	HPE Primera 600 32Gb 4-port Fibre Channel Host Bus Adapter	2
17	716197-B21	HPE External 2.0m (6ft) Mini-SAS HD 4x to Mini-SAS HD 4x Cable	8
18	QK734A	HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	8
19	QK735A	HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	8
20	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
21	HT7A6A3 699	For HPE Internal Entitlement Purposes	4
22	HT7A6A3 Z0J	HPE Primera 600 2U24 SFF Enclosure Supp	1
23	HT7A6A3 Z0K	HPE Primera 600 2U12 LFF Enclosure Supp	1
24	HT7A6A3 Z0N	HPE Primera 600 4p 32Gb FC HBA Support	2
25	HT7A6A3 Z0S	HPE Primera 600 1.92TB SFF SSD Support	2
26	HT7A6A3 Z0T	HPE Primera 600 3.84TB SFF SSD Support	2
27	HT7A6A3 Z0U	HPE Primera 600 7.68TB SFF SSD Support	2
28	HT7A6A3 Z10	HPE Primera 600 8TB 7.2K LFF HDD Support	2
29	HT7A6A3 Z13	HPE Primera 600 2.4TB 10K SFF HDD Supp	2
30	HT7A6A3 ZMZ	HPE Primera 600 14TB SAS 7.2K HDD Supp	2
31	HA124A1	HPE Technical Installation Startup SVC	1
32	HA124A1 5PJ	HPE Startup Primera 600 Adapter Fld SVC	2
33	HA124A1 5Q4	HPE Startup Primera 600 Drive Fld SVC	1
34	HA124A1 5Q3	HPE Startup Primera 600 Drv Enc Fld SVC	2
35	H0JD6A1	HPE Storage SSD Extended Replacement SVC	6

B.17 Dell Networking S6010-ON, 1U, 32x 40GbE QSFP+, 2x AC PSUs, IO to PSU Airflow, OS9

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1	210-AGMN	Dell Networking S6010-ON, 1U, 32x 40GbE QSFP+, 2x AC PSUs, IO to PSU Airflow, OS9	1
2	407-BBYR	Dell Networking, Transceiver, 40GbE QSFP+ SR4 Open Networking, 850nm Wavelength, MTP, MMF	10

3	450-ACSU	Power Cord, PDU (Rack)	2
4	528-BBSX	OS9 installed on S6010-ON, with entitlement to OS10 Enterprise	1
5	634-BHCU	Software, Rights to use L3, S6010-ON	1
6	631-AAXQ	S6010-ON User Documentation EMEA	1
7	709-13985	Base Warranty	1
8	709-13986	1Yr Return to Depot - Minimum Warranty	1
9	709-13987	90 Day SW Bug Fixes Support Media Replacement	1
10	710-96591	INFO 1Yr ProSupport and 4hr Mission Critical	1
11	710-96593	3Yr ProSupport and 4hr Mission Critical	1

B.18 Dell Networking S4048-ON, 48x 10GbE SFP+ and 6x 40GbE QSFP+ ports, IO to PSU air, 1x AC PSUs, DNOS9

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1	210-ADUW	Dell Networking S4048-ON, 48x 10GbE SFP+ and 6x 40GbE QSFP+ ports, IO to PSU air, 1x AC PSUs, DNOS9	1
2	407-BBEE	Dell Networking, Transceiver, SFP+, 10GbE, LR, 1310nm Wavelength, 10km Reach	1
3	450-ACSU	Power Cord, PDU (Rack)	1
4	450-AAQB	Power Supply, AC, 460w, IO to PSU airflow, S4048-ON	1
5	528-BBSZ	OS9 installed on S4048-ON, with entitlement to OS10 Enterprise	1
6	709-13025	Base Warranty	1
7	709-17072	1Yr Return to Depot - Minimum Warranty	1
8	709-17073	90 Day SW Bug Fixes Support Media Replacement	1
9	865-86141	3Yr ProSupport and 4Hr Mission Critical	1

B.19 Dell Networking Cable, QSFP+, 40GbE Active Optical (no optics required), 3 Meters, Customer Kit

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1	470-ACOR	Dell Networking Cable, QSFP+, 40GbE Active Optical (no optics required), 3 Meters, Customer Kit	1

B.20 Dell Networking S4048-ON, 48x 10GbE SFP+ and 6x 40GbE QSFP+ ports, IO to PSU air, 1x AC PSUs, DNOS9

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1	210-ADUW	Dell Networking S4048-ON, 48x 10GbE SFP+ and 6x 40GbE QSFP+ ports, IO to PSU air, 1x AC PSUs, DNOS9	1
2	450-ACSU	Power Cord, PDU (Rack)	1
3	450-AAQB	Power Supply, AC, 460w, IO to PSU airflow, S4048-ON	1
4	470-AAIB	Dell Networking, Cable, QSFP+ to QSFP+, 40GbE Passive Copper Direct Attach Cable, 0.5 m	1
5	528-BBSZ	OS9 installed on S4048-ON, with entitlement to OS10 Enterprise	1
6	709-13025	Base Warranty	1
7	709-17072	1Yr Return to Depot - Minimum Warranty	1

8	709-17073	90 Day SW Bug Fixes Support Media Replacement	1
9	865-86141	3Yr ProSupport and 4Hr Mission Critical	1

B.21 Dell Networking S3124F

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1	210-AIMS	Dell Networking S3124F, L3, 24x 1GbE SFP, 2xCombo, 2x 10GbE SFP+ fixed ports, Stacking, IO to PSU air, 1x AC PSU	1
2	407-BBDB	Dell Networking, Transceiver, SFP, 1000BASE-SX, 850nm Wavelength, 550m Reach	3
3	407-BBEF	Dell Networking, Transceiver, SFP+, 10GbE, SR, 850nm Wavelength, 300m Reach	5
4	450-AART	Rack Power Cord 2M, C13/C14, 12A	1
5	470-AAPT	Stacking Cable, for Dell Networking N2000/N3000/S3100 series switches (no cross-series stack), 1m	1
6	709-14075	S3124P,S3124F,S3124 Base Warranty	1
7	709-14076	S3124P,S3124F,S3124 Limited Lifetime Hardware Warranty Minimum Warranty	1
8	709-14077	S3124P,S3124F,S3124 90 Days Software Support (Bug Fixes), Software Media Replacement	1
9	865-11154	S3124P,S3124F,S3124 3Yr ProSupport and 4hr Mission Critical	1

B.22 Dell Networking S3148P

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1	210-AIMP	Dell Networking S3148P, L3, PoE+, 48x 1GbE, 2x Combo, 2x 10GbE SFP+ fixed ports, Stacking, IO to PSU air, 1x 1100w AC PS	1
2	450-ADXF	European 250V C15 Power Cord for N20xxP/N30xxP	1
3	450-AFHX	Power Supply, 1100w, S3148P, Required for more than 900 watts of POE+, or for redundancy	1
4	470-AAPT	Stacking Cable, for Dell Networking N2000/N3000/S3100 series switches (no cross-series stack), 1m	1
5	709-14107	S3148,S3148P Base Warranty	1
6	709-14108	S3148P Limited Lifetime Hardware Warranty - Minimum Warranty	1
7	709-14109	S3148P 90 Days Software Support (Bug Fixes), Software Media Replacement	1
8	865-11486	S3148,S3148P 3Yr ProSupport and 4hr Mission Critical	1

NATO Communications and Information Agency



IFB-CO-115125-e-FIT

- Provision of -

**COTS IT
HARDWARE AND ASSOCIATED SUPPORT**

BOOK II - PART IV

STATEMENT OF WORK (SOW)

**Schedule C – Server Equipment
AMENDMENT 3**

Table of Contents

SCHEDULE C – SERVER EQUIPMENT	4
1.1. General Information.....	4
1.2. Alternatives due to discontinuation or non-availability or obsolescence	4
C.1 HPE ProLiant DL380-DB Server-Dual Rank.....	5
C.2 HPE ProLiant DL380 Gen10-DB Server-Quad Rank.....	6
C.3 HPE DL380 Gen10 24SFF-VDI vSAN Server	7
C.4 HPE DL380 Gen10 24SFF-GP vSAN Rackmount Server	8
C.5 HPE ProLiant DL380 Gen10 8SFF-GP Rackmount Server	9
C.6 HPE DL380 Gen10 24SFF-GP vSAN Rackmount Server	10
C.7 HPE ProLiant DL360 Gen10 8SFF 32GB	11
C.8 HPE ProLiant DL360 Gen10 8SFF 192GB	11
C.9 HPE DL380 Gen10 8SFF 768GB.....	12
C.10 HPE 42U 600mmx1200mm Rack Components	13
C.11 HPE Synergy 480 Gen10 768GB	13
C.12 HPE Synergy 480 Gen10 768GB noFC.....	14
C.13 HPE Synergy 12000 1 st frame	14
C.14 HPE Synergy 12000 1 st frame noFC.....	15
C.15 HPE Synergy 12000 add frame	16
C.16 HPE Synergy 12000 add frame noFC	17
C.17 HPE Synergy 480 Gen10 768GB noFC.....	17
C.18 HPE DL380 Gen10 24SFF 768GB	18
C.19 Dell-EMC PowerEdge MX7000 Blade Enclosure.....	19
C.20 Dell-EMC PowerEdge R540 Server Standard	20
C.21 Dell-EMC PowerEdge C6400	21
C.22 Dell-EMC PowerEdge C6525- Full Configuration	22
C.23 Dell-EMC PowerEdge C4140 - Full Configuration	23
C.24 Dell-EMC PowerEdge C6400 - Full Configuration	24
C.25 Dell-EMC PowerEdge C6420 - Full Configuration	25
C.26 Dell-EMC PowerEdge R940 - Full Configuration	25
C.27 Dell-EMC PowerEdge R740 Server Optimal.....	27
C.28 Dell-EMC PowerEdge R740 Server Basic - [PER7400M]	28
C.29 Dell-EMC PowerEdge R640 Server Optimal - [PER6404M].....	29
C.30 Dell-EMC PowerEdge R740XD Server Optimal - [PER740xd01M]	30
C.31 Dell-EMC PowerEdge R640 Server Basic - [PER6400M]	31
C.32 Dell-EMC PowerEdge R840-Full Configuration - [EMEA_R840_VI_VP]	32
C.33 Dell-EMC PowerEdge R740 Server Standard - [PER7402a]	33
C.34 Dell-EMC PowerEdge R740 Server Performance - [PER7400a]	34

C.35	Dell-EMC PowerEdge R440 Server Standard - [PER4402a]	35
C.36	Dell-EMC PowerEdge R740XD2 Server Standard - [PER740XD2M].....	36
C.37	Dell-EMC PowerEdge R940XA - Full Configuration - [EMEA_R940XA_VI_VP].	37
C.38	Dell-EMC PowerEdge R640 Server Performance - [PER6403M]	38
C.39	Dell-EMC PowerEdge FX2 - Full Configuration	39
C.40	Dell-EMC PowerEdge FC640 - Full Configuration - [EMEA_FC640_VI_VP].....	40
C.41	Dell-EMC Accessories	41

SCHEDULE C – SERVER EQUIPMENT

1.1. General Information

1.1.1. The equipment in this schedule includes:

- 1.1.1.1.** Rack Servers
- 1.1.1.2.** Blade Servers & Chassis
- 1.1.1.3.** Racks & Technical Room Equipment
- 1.1.1.4.** Uninterruptable Power Supplies (UPS)

1.1.2. The equipment in this category shall be sourced from mainstream brand manufacturers that have support and warranty channels that cover the geographical scope of this Contract and include, but are not limited to: Hewlett Packard, Dell, Lenovo, etc, in order to replace existing branded equipment.

1.1.3. The configurations and quantities of the items within the equipment listed below may change per Task Order.

1.2. Alternatives due to discontinuation or non-availability or obsolescence

1.2.1. The Purchaser acknowledges the possibility that due to the fast moving nature of changes in technology, that at the time of contract or task order award, some of the Purchaser's requirements may be discontinued or no longer available or obsolete, thereby in need of a replacement or substitution.

1.2.2. With this acknowledgement, the Purchaser advises that for each item which falls under this category, the Contractor is allowed to propose an alternative (i.e. a replacement or substitution) if due to discontinuation or obsolescence or the Purchaser's original requirement is neither available nor is best suitable.

1.2.3. Any alternative proposed shall be: (a) same as or similar to the specification and configuration as the Agency's baseline requirement and (b) technically compliant.

C.1 HPE ProLiant DL380-DB Server-Dual Rank

#	Item	Specification	Quantity of sub-elements needed for full Configuration ¹
1.	P19720-B21	HPE ProLiant DL380 Gen10 8SFF NC Configure-to-order Server	1
2.	P19720-B21 B19	HPE DL380 G10 CTO Mod-X 8SFF WO NIC	1
3.	P24475-L21	Intel Xeon-Gold 6250 (3.9GHz/8-core/185W) FIO Processor Kit for HPE ProLiant DL380 Gen10	1
4.	P24475-B21	Intel Xeon-Gold 6250 (3.9GHz/8-core/185W) Processor Kit for HPE ProLiant DL380 Gen10	1
5.	P24475-B21 0D1	Factory Integrated	1
6.	P00930-B21	HPE 64GB (1x64GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	16
7.	P00930-B21 0D1	Factory Integrated	16
8.	872475-B21	HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	2
9.	872475-B21 0D1	Factory Integrated	2
10.	Q0L14A	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	1
11.	Q0L14A 0D1	Factory Integrated	1
12.	817738-B21	HPE Ethernet 10Gb 2-port BASE-T X550-AT2 Adapter	1
13.	817738-B21 0D1	Factory Integrated	1
14.	P01366-B21	HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	1
15.	P01366-B21 0D1	Factory Integrated	1
16.	804331-B21	HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular Controller	1
17.	804331-B21 0D1	Factory Integrated	1
18.	817745-B21	HPE Ethernet 10Gb 2-port FLR-T X550-AT2 Adapter	1
19.	817745-B21 0D1	Factory Integrated	1
20.	339778-B21	HPE RAID 1 Drive 1 FIO Setting	1
21.	867810-B21	HPE DL38X Gen10 High Performance Temperature Fan Kit	1
22.	867810-B21 0D1	Factory Integrated	1
23.	865414-B21	HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	2
24.	865414-B21 0D1	Factory Integrated	2
25.	BD505A	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	1
26.	BD505A 0D1	Factory Integrated	1
27.	P8B31A	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	1
28.	733664-B21	HPE 2U Cable Management Arm for Easy Install Rail Kit	1
29.	733664-B21 0D1	Factory Integrated	1
30.	733660-B21	HPE 2U Small Form Factor Easy Install Rail Kit	1
31.	733660-B21 0D1	Factory Integrated	1
32.	AC114A	HPE ProLiant Door/dock Medium Logistic Service	1
33.	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
34.	HT7A6A3 R2M	HPE iLO Advanced Non Blade Support	1
35.	HT7A6A3 SVP	HPE One View w/o iLO Support	1
36.	HT7A6A3 WAH	HPE DL38x Gen10 Support	1

¹ Quantity of sub-elements needed for full configuration. This applies throughout the entire Schedule.

C.2 HPE ProLiant DL380 Gen10-DB Server-Quad Rank

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1.	P19720-B21	HPE ProLiant DL380 Gen10 8SFF NC Configure-to-order Server	1
2.	P19720-B21 B19	HPE DL380 G10 CTO Mod-X 8SFF WO NIC	1
3.	P28387-L21	Intel Xeon-Gold 6250L (3.9GHz/8-core/185W) FIO Processor Kit for HPE ProLiant DL380 Gen10	1
4.	P28387-B21	Intel Xeon-Gold 6250L (3.9GHz/8-core/185W) Processor Kit for HPE ProLiant DL380 Gen10	1
5.	P28387-B21 OD1	Factory Integrated	1
6.	P11040-B21	HPE 128GB (1x128GB) Quad Rank x4 DDR4-2933 CAS-21-21-21 Load Reduced Smart Memory Kit	8
7.	P11040-B21 OD1	Factory Integrated	8
8.	872475-B21	HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	2
9.	872475-B21 OD1	Factory Integrated	2
10.	Q0L14A	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	1
11.	Q0L14A OD1	Factory Integrated	1
12.	817738-B21	HPE Ethernet 10Gb 2-port BASE-T X550-AT2 Adapter	1
13.	817738-B21 OD1	Factory Integrated	1
14.	P01366-B21	HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	1
15.	P01366-B21 OD1	Factory Integrated	1
16.	804331-B21	HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular Controller	1
17.	804331-B21 OD1	Factory Integrated	1
18.	817745-B21	HPE Ethernet 10Gb 2-port FLR-T X550-AT2 Adapter	1
19.	817745-B21 OD1	Factory Integrated	1
20.	339778-B21	HPE RAID 1 Drive 1 FIO Setting	1
21.	867810-B21	HPE DL38X Gen10 High Performance Temperature Fan Kit	1
22.	867810-B21 OD1	Factory Integrated	1
23.	865414-B21	HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	2
24.	865414-B21 OD1	Factory Integrated	2
25.	BD505A	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	1
26.	BD505A OD1	Factory Integrated	1
27.	P8B31A	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	1
28.	733664-B21	HPE 2U Cable Management Arm for Easy Install Rail Kit	1
29.	733664-B21 OD1	Factory Integrated	1
30.	733660-B21	HPE 2U Small Form Factor Easy Install Rail Kit	1
31.	733660-B21 OD1	Factory Integrated	1
32.	AC114A	HPE ProLiant Door/dock Medium Logistic Service	1
33.	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
34.	HT7A6A3 R2M	HPE iLO Advanced Non Blade Support	1
35.	HT7A6A3 SVP	HPE One View w/o iLO Support	1
36.	HT7A6A3 WAH	HPE DL38x Gen10 Support	1

C.3 HPE DL380 Gen10 24SFF-VDI vSAN Server

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1.	P19719-B21	HPE DL380 Gen10 24SFF NC CTO Svr	1
2.	P19719-B21 B19	HPE DL380 G10 CTO Mod-X 24SFF WO NIC	1
3.	P24467-L21	Intel Xeon-Gold 6226R (2.9GHz/16-core/150W) FIO Processor Kit for HPE ProLiant DL380 Gen10	1
4.	P24467-B21	Intel Xeon-Gold 6226R (2.9GHz/16-core/150W) Processor Kit for HPE ProLiant DL380 Gen10	1
5.	P24467-B21 OD1	Factory Integrated	1
6.	P00930-B21	HPE 64GB (1x64GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	8
7.	P00930-B21 OD1	Factory Integrated	8
8.	826687-B21	HPE DL38X Gen10 2SFF Premium HDD Front NVMe or Front/Rear SAS/SATA Kit	1
9.	826687-B21 OD1	Factory Integrated	1
10.	872475-B21	HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	2
11.	872475-B21 OD1	Factory Integrated	2
12.	P19915-B21	HPE 1.6TB SAS 12G Mixed Use SFF SC PM1645a SSD	6
13.	P19915-B21 OD1	Factory Integrated	6
14.	P21125-B21	HPE 400GB SAS 12G Write Intensive SFF SC SS540 SSD	2
15.	P21125-B21 OD1	Factory Integrated	2
16.	870548-B21	HPE DL Gen10 x8/x16/x8 Riser Kit	1
17.	870548-B21 OD1	Factory Integrated	1
18.	817738-B21	HPE Ethernet 10Gb 2-port BASE-T X550-AT2 Adapter	2
19.	817738-B21 OD1	Factory Integrated	2
20.	830824-B21	HPE Smart Array P408i-p SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS PCIe Plug-in Controller	1
21.	830824-B21 OD1	Factory Integrated	1
22.	870549-B21	HPE DL38X Gen10 12Gb SAS Expander Card Kit with Cables	1
23.	870549-B21 OD1	Factory Integrated	1
24.	P01366-B21	HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	1
25.	P01366-B21 OD1	Factory Integrated	1
26.	804326-B21	HPE Smart Array E208i-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular Controller	1
27.	804326-B21 OD1	Factory Integrated	1
28.	817745-B21	HPE Ethernet 10Gb 2-port FLR-T X550-AT2 Adapter	1
29.	817745-B21 OD1	Factory Integrated	1
30.	830272-B21	HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	2
31.	830272-B21 OD1	Factory Integrated	2
32.	BD505A	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	1
33.	BD505A OD1	Factory Integrated	1
34.	P8B31A	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	1
35.	733664-B21	HPE 2U Cable Management Arm for Easy Install Rail Kit	1
36.	733664-B21 OD1	Factory Integrated	1
37.	733660-B21	HPE 2U Small Form Factor Easy Install Rail Kit	1
38.	733660-B21 OD1	Factory Integrated	1
39.	AC114A	HPE ProLiant Door/dock Medium Logistic Service	1
40.	HT7A5A3	HPE 3Y Datacenter Care 24x7 Addon SVC	1
41.	HT7A5A3 R2M	HPE iLO Advanced Non Blade Support	1
42.	HT7A5A3 SVP	HPE One View w/o iLO Support	1

43.	HT7A5A3 WAH	HPE DL38x Gen10 Support	1
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C.4 HPE DL380 Gen10 24SFF-GP vSAN Rackmount Server

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1.	P19719-B21	HPE DL380 Gen10 24SFF NC CTO Svr	1
2.	P19719-B21 B19	HPE DL380 G10 CTO Mod-X 24SFF WO NIC	1
3.	P24471-L21	Intel Xeon-Gold 6242R (3.1GHz/20-core/205W) FIO Processor Kit for HPE ProLiant DL380 Gen10	1
4.	P24471-B21	Intel Xeon-Gold 6242R (3.1GHz/20-core/205W) Processor Kit for HPE ProLiant DL380 Gen10	1
5.	P24471-B21 OD1	Factory Integrated	1
6.	P00930-B21	HPE 64GB (1x64GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	8
7.	P00930-B21 OD1	Factory Integrated	8
8.	826687-B21	HPE DL38X Gen10 2SFF Premium HDD Front NVMe or Front/Rear SAS/SATA Kit	1
9.	826687-B21 OD1	Factory Integrated	1
10.	872475-B21	HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	2
11.	872475-B21 OD1	Factory Integrated	2
12.	P19915-B21	HPE 1.6TB SAS 12G Mixed Use SFF SC PM1645a SSD	6
13.	P19915-B21 OD1	Factory Integrated	6
14.	P21125-B21	HPE 400GB SAS 12G Write Intensive SFF SC SS540 SSD	2
15.	P21125-B21 OD1	Factory Integrated	2
16.	870548-B21	HPE DL Gen10 x8/x16/x8 Riser Kit	1
17.	870548-B21 OD1	Factory Integrated	1
18.	817738-B21	HPE Ethernet 10Gb 2-port BASE-T X550-AT2 Adapter	2
19.	817738-B21 OD1	Factory Integrated	2
20.	830824-B21	HPE Smart Array P408i-p SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS PCIe Plug-in Controller	1
21.	830824-B21 OD1	Factory Integrated	1
22.	870549-B21	HPE DL38X Gen10 12Gb SAS Expander Card Kit with Cables	1
23.	870549-B21 OD1	Factory Integrated	1
24.	P01366-B21	HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	1
25.	P01366-B21 OD1	Factory Integrated	1
26.	804326-B21	HPE Smart Array E208i-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular Controller	1
27.	804326-B21 OD1	Factory Integrated	1
28.	817745-B21	HPE Ethernet 10Gb 2-port FLR-T X550-AT2 Adapter	1
29.	817745-B21 OD1	Factory Integrated	1
30.	865414-B21	HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	2
31.	865414-B21 OD1	Factory Integrated	2
32.	BD505A	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	1
33.	BD505A OD1	Factory Integrated	1
34.	P8B31A	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	1
35.	733664-B21	HPE 2U Cable Management Arm for Easy Install Rail Kit	1
36.	733664-B21 OD1	Factory Integrated	1
37.	733660-B21	HPE 2U Small Form Factor Easy Install Rail Kit	1
38.	733660-B21 OD1	Factory Integrated	1
39.	AC114A	HPE ProLiant Door/dock Medium Logistic Service	1
40.	HT7A5A3	HPE 3Y Datacenter Care 24x7 Addon SVC	1

41.	HT7A5A3 R2M	HPE iLO Advanced Non Blade Support	1
42.	HT7A5A3 SVP	HPE One View w/o iLO Support	1
43.	HT7A5A3 WAH	HPE DL38x Gen10 Support	1

C.5 HPE ProLiant DL380 Gen10 8SFF-GP Rackmount Server

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1.	P19720-B21	HPE ProLiant DL380 Gen10 8SFF NC Configure-to-order Server	1
2.	P19720-B21 B19	HPE DL380 G10 CTO Mod-X 8SFF WO NIC	1
3.	P24473-L21	Intel Xeon-Gold 6248R (3.0GHz/24-core/205W) FIO Processor Kit for HPE ProLiant DL380 Gen10	1
4.	P24473-B21	Intel Xeon-Gold 6248R (3.0GHz/24-core/205W) Processor Kit for HPE ProLiant DL380 Gen10	1
5.	P24473-B21 OD1	Factory Integrated	1
6.	P00930-B21	HPE 64GB (1x64GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	16
7.	P00930-B21 OD1	Factory Integrated	16
8.	872475-B21	HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	2
9.	872475-B21 OD1	Factory Integrated	2
10.	Q0L14A	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	1
11.	Q0L14A OD1	Factory Integrated	1
12.	817738-B21	HPE Ethernet 10Gb 2-port BASE-T X550-AT2 Adapter	1
13.	817738-B21 OD1	Factory Integrated	1
14.	P01366-B21	HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	1
15.	P01366-B21 OD1	Factory Integrated	1
16.	804331-B21	HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular Controller	1
17.	804331-B21 OD1	Factory Integrated	1
18.	817745-B21	HPE Ethernet 10Gb 2-port FLR-T X550-AT2 Adapter	1
19.	817745-B21 OD1	Factory Integrated	1
20.	339778-B21	HPE RAID 1 Drive 1 FIO Setting	1
21.	865414-B21	HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	2
22.	865414-B21 OD1	Factory Integrated	2
23.	BD505A	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	1
24.	BD505A OD1	Factory Integrated	1
25.	P8B31A	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	1
26.	733664-B21	HPE 2U Cable Management Arm for Easy Install Rail Kit	1
27.	733664-B21 OD1	Factory Integrated	1
28.	733660-B21	HPE 2U Small Form Factor Easy Install Rail Kit	1
29.	733660-B21 OD1	Factory Integrated	1
30.	AC114A	HPE ProLiant Door/dock Medium Logistic Service	1
31.	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
32.	HT7A6A3 R2M	HPE iLO Advanced Non Blade Support	1
33.	HT7A6A3 SVP	HPE One View w/o iLO Support	1
34.	HT7A6A3 WAH	HPE DL38x Gen10 Support	1

C.6 HPE DL380 Gen10 24SFF-GP vSAN Rackmount Server

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1.	P19719-B21	HPE DL380 Gen10 24SFF NC CTO Svr	1
2.	P19719-B21 B19	HPE DL380 G10 CTO Mod-X 24SFF WO NIC	1
3.	P24473-L21	Intel Xeon-Gold 6248R (3.0GHz/24-core/205W) FIO Processor Kit for HPE ProLiant DL380 Gen10	1
4.	P24473-B21	Intel Xeon-Gold 6248R (3.0GHz/24-core/205W) Processor Kit for HPE ProLiant DL380 Gen10	1
5.	P24473-B21 OD1	Factory Integrated	1
6.	P00930-B21	HPE 64GB (1x64GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	16
7.	P00930-B21 OD1	Factory Integrated	16
8.	826687-B21	HPE DL38X Gen10 2SFF Premium HDD Front NVMe or Front/Rear SAS/SATA Kit	1
9.	826687-B21 OD1	Factory Integrated	1
10.	872475-B21	HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	2
11.	872475-B21 OD1	Factory Integrated	2
12.	P10460-B21	HPE 3.84TB SAS 12G Mixed Use SFF SC Value SAS RM5 SSD	6
13.	P10460-B21 OD1	Factory Integrated	6
14.	P21127-B21	HPE 800GB SAS 12G Write Intensive SFF SC SS540 SSD	2
15.	P21127-B21 OD1	Factory Integrated	2
16.	870548-B21	HPE DL Gen10 x8/x16/x8 Riser Kit	1
17.	870548-B21 OD1	Factory Integrated	1
18.	817738-B21	HPE Ethernet 10Gb 2-port BASE-T X550-AT2 Adapter	2
19.	817738-B21 OD1	Factory Integrated	2
20.	830824-B21	HPE Smart Array P408i-p SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS PCIe Plug-in Controller	1
21.	830824-B21 OD1	Factory Integrated	1
22.	870549-B21	HPE DL38X Gen10 12Gb SAS Expander Card Kit with Cables	1
23.	870549-B21 OD1	Factory Integrated	1
24.	P01366-B21	HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	1
25.	P01366-B21 OD1	Factory Integrated	1
26.	804326-B21	HPE Smart Array E208i-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular Controller	1
27.	804326-B21 OD1	Factory Integrated	1
28.	817745-B21	HPE Ethernet 10Gb 2-port FLR-T X550-AT2 Adapter	1
29.	817745-B21 OD1	Factory Integrated	1
30.	865414-B21	HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	2
31.	865414-B21 OD1	Factory Integrated	2
32.	BD505A	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	1
33.	BD505A OD1	Factory Integrated	1
34.	P8B31A	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	1
35.	733664-B21	HPE 2U Cable Management Arm for Easy Install Rail Kit	1
36.	733664-B21 OD1	Factory Integrated	1
37.	733660-B21	HPE 2U Small Form Factor Easy Install Rail Kit	1
38.	733660-B21 OD1	Factory Integrated	1
39.	AC114A	HPE ProLiant Door/dock Medium Logistic Service	1
40.	HT7A5A3	HPE 3Y Datacenter Care 24x7 Addon SVC	1
	HT7A5A3 R2M	HPE iLO Advanced Non Blade Support	1
	HT7A5A3 SVP	HPE One View w/o iLO Support	1

HT7A5A3	WAH	HPE DL38x Gen10 Support	1
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C.7 HPE ProLiant DL360 Gen10 8SFF 32GB

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1.	P19766-B21	HPE ProLiant DL360 Gen10 8SFF NC Configure-to-order Server	1
2.	P19766-B21 B19	HPE DL360 Gen10 8SFF ModX CTO	1
3.	P02571-L21	Intel Xeon-Silver 4208 (2.1GHz/8-core/85W) FIO Processor Kit for HPE ProLiant DL360 Gen10	1
4.	P00922-B21	HPE 16GB (1x16GB) Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	2
5.	P00922-B21 OD1	Factory Integrated	2
6.	P18422-B21	HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSD	2
7.	P18422-B21 OD1	Factory Integrated	2
8.	P01366-B21	HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	1
9.	P01366-B21 OD1	Factory Integrated	1
10.	804331-B21	HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular Controller	1
11.	804331-B21 OD1	Factory Integrated	1
12.	629135-B22	HPE Ethernet 1Gb 4-port 331FLR Adapter	1
13.	629135-B22 OD1	Factory Integrated	1
14.	339778-B21	HPE RAID 1 Drive 1 FIO Setting	1
15.	865408-B21	HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	2
16.	865408-B21 OD1	Factory Integrated	2
17.	BD505A	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	1
18.	BD505A OD1	Factory Integrated	1
19.	P8B31A	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	1
20.	734811-B21	HPE 1U Cable Management Arm for Rail Kit	1
21.	734811-B21 OD1	Factory Integrated	1
22.	874543-B21	HPE 1U Gen10 SFF Easy Install Rail Kit	1
23.	874543-B21 OD1	Factory Integrated	1
24.	AC111A	HPE ProLiant Door/dock Small Logistic Service	1
25.	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
26.	HT7A6A3 R2M	HPE iLO Advanced Non Blade Support	1
27.	HT7A6A3 SVP	HPE One View w/o iLO Support	1
28.	HT7A6A3 WAG	HPE DL360 Gen10 Support	1

C.8 HPE ProLiant DL360 Gen10 8SFF 192GB

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1.	P19766-B21	HPE ProLiant DL360 Gen10 8SFF NC Configure-to-order Server	1
2.	P19766-B21 B19	HPE DL360 Gen10 8SFF ModX CTO	1
3.	P02571-L21	Intel Xeon-Silver 4208 (2.1GHz/8-core/85W) FIO Processor Kit for HPE ProLiant DL360 Gen10	1
4.	P02571-B21	Intel Xeon-Silver 4208 (2.1GHz/8-core/85W) Processor Kit for HPE ProLiant DL360 Gen10	1
5.	P02571-B21 OD1	Factory Integrated	1
6.	P00922-B21	HPE 16GB (1x16GB) Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	12
7.	P00922-B21 OD1	Factory Integrated	12
8.	P18422-B21	HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSD	2
9.	P18422-B21 OD1	Factory Integrated	2

10.	P01366-B21	HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	1
11.	P01366-B21 OD1	Factory Integrated	1
12.	804331-B21	HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular Controller	1
13.	804331-B21 OD1	Factory Integrated	1
14.	629135-B22	HPE Ethernet 1Gb 4-port 331FLR Adapter	1
15.	629135-B22 OD1	Factory Integrated	1
16.	339778-B21	HPE RAID 1 Drive 1 FIO Setting	1
17.	865408-B21	HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	2
18.	865408-B21 OD1	Factory Integrated	2
19.	BD505A	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	1
20.	BD505A OD1	Factory Integrated	1
21.	P8B31A	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	1
22.	734811-B21	HPE 1U Cable Management Arm for Rail Kit	1
23.	734811-B21 OD1	Factory Integrated	1
24.	874543-B21	HPE 1U Gen10 SFF Easy Install Rail Kit	1
25.	874543-B21 OD1	Factory Integrated	1
26.	AC111A	HPE ProLiant Door/dock Small Logistic Service	1
27.	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
28.	HT7A6A3 R2M	HPE iLO Advanced Non Blade Support	1
29.	HT7A6A3 SVP	HPE One View w/o Ilo Support	1
30.	HT7A6A3 WAG	HPE DL360 Gen10 Support	1

C.9 HPE DL380 Gen10 8SFF 768GB

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1.	P19720-B21	HPE DL380 Gen10 8SFF NC CTO Svr	1
2.	P19720-B21 B19	HPE DL380 G10 CTO Mod-X 8SFF WO NIC	1
3.	P24473-L21	Intel Xeon-Gold 6248R (3.0GHz/24-core/205W) FIO Processor Kit for HPE ProLiant DL380 Gen10	1
4.	P24473-B21	Intel Xeon-Gold 6248R (3.0GHz/24-core/205W) Processor Kit for HPE ProLiant DL380 Gen10	1
5.	P24473-B21 OD1	Factory Integrated	1
6.	P00930-B21	HPE 64GB (1x64GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	12
7.	P00930-B21 OD1	Factory Integrated	12
8.	P18422-B21	HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSD	2
9.	P18422-B21 OD1	Factory Integrated	2
10.	Q0L14A	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	1
11.	Q0L14A OD1	Factory Integrated	1
12.	817738-B21	HPE Ethernet 10Gb 2-port 562T Adapter	1
13.	817738-B21 OD1	Factory Integrated	1
14.	P01366-B21	HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	1
15.	P01366-B21 OD1	Factory Integrated	1
16.	804331-B21	HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular Controller	1
17.	804331-B21 OD1	Factory Integrated	1
18.	817745-B21	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	1
19.	817745-B21 OD1	Factory Integrated	1
20.	339778-B21	HPE RAID 1 Drive 1 FIO Setting	1
21.	865414-B21	HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	2
22.	865414-B21 OD1	Factory Integrated	2
23.	BD505A	HPE iLO Advanced 1-server License with 3yr	1

		Support on iLO Licensed Features	
24.	BD505A OD1	Factory Integrated	1
25.	P8B31A	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	1
26.	733664-B21	HPE 2U Cable Management Arm for Easy Install Rail Kit	1
27.	733664-B21 OD1	Factory Integrated	1
28.	733660-B21	HPE 2U Small Form Factor Easy Install Rail Kit	1
29.	733660-B21 OD1	Factory Integrated	1
30.	AC114A	HPE ProLiant Door/dock Medium Logistic Service	1
31.	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
32.	HT7A6A3 R2M	HPE iLO Advanced Non Blade Support	1
33.	HT7A6A3 SVP	HPE One View w/o iLO Support	1
34.	HT7A6A3 WAH	HPE DL38x Gen10 Support	1

C.10 HPE 42U 600mmx1200mm Rack Components

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1.	P9K10A	HPE 42U 600mmx1200mm G2 Kitted Advanced Shock Rack with Side Panels and Baying	1
2.	P9K10A OD1	HPE Factory Express Base Racking Service	1
3.	263474-B22	HPE 6ft Qty 8 KVM CAT5 Cable	1
4.	263474-B22 OD1	Factory Integrated	1
5.	263474-B23	HPE 12ft Qty 8 KVM CAT5 Cable	1
6.	263474-B23 OD1	Factory Integrated	1
7.	H6J85A	HPE Rack Hardware Kit	1
8.	H6J85A OD1	Factory Integrated	1
9.	P9R56A	HPE G2 Metered 7.3kVA/60309 3-wire 32A/230V Outlets (32) C13 (6) C19/Vertical INTL PDU	2
10.	P9R56A OD1	Factory Integrated	2
11.	AF630A	HPE LCD8500 1U US Rackmount Console Kit	1
12.	AF630A OD1	Factory Integrated	1
13.	BW932A	HPE 600mm Rack Stabilizer Kit	1
14.	BW932A B01	HPE 600mm Rack include with Complete System Stabilizer Kit	1
15.	Q1P55A	HPE 1x2x16 G4 KVM IP Console Switch	1
16.	Q1P55A OD1	Factory Integrated	1
17.	Q5T67A	HPE KVM Console SFF USB 8-pack Interface Adapter	2
18.	Q5T67A OD1	Factory Integrated	2
19.	Q7G11A	HPE G2 R6000/60309 3-wire 32A/230V Outlets (4) C13 (4) C19 (1) IEC 32A/3U Rackmount INTL UPS	1
20.	Q7G11A OD1	Factory Integrated	1
21.	Q7G14A	HPE G2 R5000/6000 3U Rackmount WW Extended Runtime Module	1
22.	Q7G14A OD1	Factory Integrated	1
23.	Q9Z44A	HPE 3U 6U G2 Rackmount UPS and ERM Shipping Kit	2
24.	Q9Z44A OD1	Factory Integrated	2
25.	BW928A	HPE 1U 10-pack Black Universal Filler Panel	2
26.	HT7A5A3	HPE 3Y Datacenter Care 24x7 Addon SVC	1
27.	HT7A5A3 7GW	HPE UPS Equal/Greater Than 6KVA Support	1

C.11 HPE Synergy 480 Gen10 768GB

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1.	871940-B21	HPE Synergy 480 Gen10 Configure-to-order	1

		Compute Module	
2.	P07347-L21	Intel Xeon-Gold 6242 (2.8GHz/16-core/150W) FIO Processor Kit for HPE Synergy 480/660 Gen10	1
3.	P07347-B21	Intel Xeon-Gold 6242 (2.8GHz/16-core/150W) Processor Kit for HPE Synergy 480/660 Gen10	1
4.	P07347-B21 OD1	Factory Integrated	1
5.	P00930-B21	HPE 64GB (1x64GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	12
6.	P00930-B21 OD1	Factory Integrated	12
7.	872955-B21	HPE Synergy Compute Chipset SATA FIO Board Kit	1
8.	777452-B21	HPE Synergy 3830C 16Gb Fibre Channel Host Bus Adapter	1
9.	777452-B21 OD1	Factory Integrated	1
10.	876449-B21	HPE Synergy 4820C 10/20/25Gb Converged Network Adapter	1
11.	876449-B21 OD1	Factory Integrated	1
12.	700139-B21	HPE 32GB microSD Flash Memory Card	1
13.	700139-B21 OD1	Factory Integrated	1
14.	AC111A	HPE ProLiant Door/dock Small Logistic Service	1
15.	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
16.	HT7A6A3 W4A	HPE SY480 Gen10 Support	1

C.12 HPE Synergy 480 Gen10 768GB noFC

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1.	871940-B21	HPE Synergy 480 Gen10 Configure-to-order Compute Module	1
2.	P07347-L21	Intel Xeon-Gold 6242 (2.8GHz/16-core/150W) FIO Processor Kit for HPE Synergy 480/660 Gen10	1
3.	P07347-B21	Intel Xeon-Gold 6242 (2.8GHz/16-core/150W) Processor Kit for HPE Synergy 480/660 Gen10	1
4.	P07347-B21 OD1	Factory Integrated	1
5.	P00930-B21	HPE 64GB (1x64GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	12
6.	P00930-B21 OD1	Factory Integrated	12
7.	872955-B21	HPE Synergy Compute Chipset SATA FIO Board Kit	1
8.	876449-B21	HPE Synergy 4820C 10/20/25Gb Converged Network Adapter	1
9.	876449-B21 OD1	Factory Integrated	1
10.	700139-B21	HPE 32GB microSD Flash Memory Card	1
11.	700139-B21 OD1	Factory Integrated	1
12.	AC111A	HPE ProLiant Door/dock Small Logistic Service	1
13.	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
14.	HT7A6A3 W4A	HPE SY480 Gen10 Support	1

C.13 HPE Synergy 12000 1st frame

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1.	P06011-B21	HPE Synergy 12000 Configure-to-order Frame with 10x Fans	1
2.	P06011-B21 B19	HPE Synergy 12000 Next Gen Frame	1
3.	867796-B21	HPE Virtual Connect SE 100Gb F32 Module for Synergy	2
4.	867796-B21 OD1	Factory Integrated	2
5.	455883-B21	HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver	4
6.	455883-B21 OD1	Factory Integrated	4

7.	813874-B21	HPE 10GBase-T SFP+ Transceiver	2
8.	813874-B21 OD1	Factory Integrated	2
9.	845970-B21	HPE QSFP28 to SFP28 Adapter	4
10.	845970-B21 OD1	Factory Integrated	4
11.	876852-B21	HPE Synergy 4-port Frame Link Module	2
12.	876852-B21 OD1	Factory Integrated	2
13.	JD096C	HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	1
14.	P08477-B21	HPE Virtual Connect SE 16Gb Fibre Channel Module for HPE Synergy	2
15.	P08477-B21 OD1	Factory Integrated	2
16.	QK724A	HPE B-series 16Gb SFP+ Short Wave Transceiver	8
17.	QK724A OD1	Factory Integrated	8
18.	798096-B21	HPE 6x 2650W Performance Hot Plug Titanium Plus FIO Power Supply Kit	1
19.	804938-B21	HPE Synergy Frame Rack Rail Kit	1
20.	804938-B21 OD1	Factory Integrated	1
21.	804943-B21	HPE Synergy Frame 4x Lift Handles	1
22.	804943-B21 OD1	Factory Integrated	1
23.	872957-B21	HPE Synergy Composer2 Management Appliance	2
24.	872957-B21 OD1	Factory Integrated	2
25.	AC131A	HPE ProLiant Door/dock Extra Large Logistic Service	1
26.	861412-B21	HPE Synergy Frame Link Module CAT6A 1.2m Cable	1
27.	845406-B21	HPE 100Gb QSFP28 to QSFP28 3m Direct Attach Copper Cable	2
28.	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
29.	HT7A6A3 Z1Q	HPE Synergy Composer2 Support	2
30.	HT7A6A3 WJN	HPE Synergy 1200 Frame Supp	1
31.	HT7A6A3 X7A	HPE Synergy VC SE 16Gb FC Support	2
32.	HT7A6A3 Z1R	HPE Synergy VC SE 100Gb F32 Module Supp	2
33.	HA124A1	HPE Technical Installation Startup SVC	1
34.	HA124A1 5ZM	HPE Synergy First Frame Startup SVC	1

C.14 HPE Synergy 12000 1st frame noFC

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1.	P06011-B21	HPE Synergy 12000 Configure-to-order Frame with 10x Fans	1
2.	P06011-B21 B19	HPE Synergy 12000 Next Gen Frame	1
3.	867796-B21	HPE Virtual Connect SE 100Gb F32 Module for Synergy	2
4.	867796-B21 OD1	Factory Integrated	2
5.	455883-B21	HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver	4
6.	455883-B21 OD1	Factory Integrated	4
7.	813874-B21	HPE 10GBase-T SFP+ Transceiver	2
8.	813874-B21 OD1	Factory Integrated	2
9.	882251-B21	HPE SY 100GE/4x25GE/4x32GFC QSFP28 XCVR	2
10.	882251-B21 OD1	Factory Integrated	2
11.	R3P67A	HPE Synergy 32Gb Fibre Channel Upgrade FIO LTU	2
12.	845970-B21	HPE QSFP28 to SFP28 Adapter	4
13.	845970-B21 OD1	Factory Integrated	4
14.	876852-B21	HPE Synergy 4-port Frame Link Module	2
15.	876852-B21 OD1	Factory Integrated	2
16.	JD096C	HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	1

17.	798096-B21	HPE 6x 2650W Performance Hot Plug Titanium Plus FIO Power Supply Kit	1
18.	804938-B21	HPE Synergy Frame Rack Rail Kit	1
19.	804938-B21 OD1	Factory Integrated	1
20.	804943-B21	HPE Synergy Frame 4x Lift Handles	1
21.	804943-B21 OD1	Factory Integrated	1
22.	872957-B21	HPE Synergy Composer2 Management Appliance	2
23.	872957-B21 OD1	Factory Integrated	2
24.	K2Q46A	HPE Multi Fiber Push On to 4 x Lucent Connector 5m Cable	2
25.	AC131A	HPE ProLiant Door/dock Extra Large Logistic Service	1
26.	861412-B21	HPE Synergy Frame Link Module CAT6A 1.2m Cable	1
27.	845406-B21	HPE 100Gb QSFP28 to QSFP28 3m Direct Attach Copper Cable	2
28.	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
29.	HT7A6A3 Z1Q	HPE Synergy Composer2 Support	2
30.	HT7A6A3 WJN	HPE Synergy 1200 Frame Supp	1
31.	HT7A6A3 Z1R	HPE Synergy VC SE 100Gb F32 Module Supp	2
32.	HA124A1	HPE Technical Installation Startup SVC	1
33.	HA124A1 5ZM	HPE Synergy First Frame Startup SVC	1

C.15 HPE Synergy 12000 add frame

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1.	P06011-B21	HPE Synergy 12000 Configure-to-order Frame with 10x Fans	1
2.	P06011-B21 B19	HPE Synergy 12000 Next Gen Frame	1
3.	867793-B21	HPE Synergy 50Gb Interconnect Link Module	2
4.	867793-B21 OD1	Factory Integrated	2
5.	876852-B21	HPE Synergy 4-port Frame Link Module	2
6.	876852-B21 OD1	Factory Integrated	2
7.	JD096C	HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	1
8.	P08477-B21	HPE Virtual Connect SE 16Gb Fibre Channel Module for HPE Synergy	2
9.	P08477-B21 OD1	Factory Integrated	2
10.	QK724A	HPE B-series 16Gb SFP+ Short Wave Transceiver	8
11.	QK724A OD1	Factory Integrated	8
12.	798096-B21	HPE 6x 2650W Performance Hot Plug Titanium Plus FIO Power Supply Kit	1
13.	804938-B21	HPE Synergy Frame Rack Rail Kit	1
14.	804938-B21 OD1	Factory Integrated	1
15.	804943-B21	HPE Synergy Frame 4x Lift Handles	1
16.	804943-B21 OD1	Factory Integrated	1
17.	AC131A	HPE ProLiant Door/dock Extra Large Logistic Service	1
18.	861412-B21	HPE Synergy Frame Link Module CAT6A 1.2m Cable	1
19.	876680-B21	HPE SY 300Gb Interconnect Link 2.1m DAC	4
20.	H1K92A3	HPE 3Y Proactive Care 24x7 SVC	1
21.	HT7A6A3 WJN	HPE Synergy 1200 Frame Supp	1
22.	HT7A6A3 X7A	HPE Synergy VC SE 16Gb FC Support	2
23.	HA124A1	HPE Technical Installation Startup SVC	1
24.	HA124A1 5ZQ	HPE Synergy Additional Frame Startup SVC	1

C.16 HPE Synergy 12000 add frame noFC

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1.	P06011-B21	HPE Synergy 12000 Configure-to-order Frame with 10x Fans	1
2.	P06011-B21 B19	HPE Synergy 12000 Next Gen Frame	1
3.	867793-B21	HPE Synergy 50Gb Interconnect Link Module	2
4.	867793-B21 0D1	Factory Integrated	2
5.	876852-B21	HPE Synergy 4-port Frame Link Module	2
6.	876852-B21 0D1	Factory Integrated	2
7.	JD096C	HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	1
8.	798096-B21	HPE 6x 2650W Performance Hot Plug Titanium Plus FIO Power Supply Kit	1
9.	804938-B21	HPE Synergy Frame Rack Rail Kit	1
10.	804938-B21 0D1	Factory Integrated	1
11.	804943-B21	HPE Synergy Frame 4x Lift Handles	1
12.	804943-B21 0D1	Factory Integrated	1
13.	AC131A	HPE ProLiant Door/dock Extra Large Logistic Service	1
14.	861412-B21	HPE Synergy Frame Link Module CAT6A 1.2m Cable	1
15.	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
16.	HT7A6A3 WJN	HPE Synergy 1200 Frame Supp	1
17.	876680-B21	HPE SY 300Gb Interconnect Link 2.1m DAC	4
18.	H1K92A3	HPE 3Y Proactive Care 24x7 SVC	1
19.	H1K92A3 Z1S	HPE Synergy 50Gb IC Link Module Support	2
20.	HA124A1	HPE Technical Installation Startup SVC	1
21.	HA124A1 5ZQ	HPE Synergy Additional Frame Startup SVC	1

C.17 HPE Synergy 480 Gen10 768GB noFC

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1.	871940-B21	HPE Synergy 480 Gen10 Configure-to-order Compute Module	1
2.	P07347-L21	Intel Xeon-Gold 6242 (2.8GHz/16-core/150W) FIO Processor Kit for HPE Synergy 480/660 Gen10	1
3.	P07347-B21	Intel Xeon-Gold 6242 (2.8GHz/16-core/150W) Processor Kit for HPE Synergy 480/660 Gen10	1
4.	P07347-B21 0D1	Factory Integrated	1
5.	P00930-B21	HPE 64GB (1x64GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	12
6.	P00930-B21 0D1	Factory Integrated	12
7.	872955-B21	HPE Synergy Compute Chipset SATA FIO Board Kit	1
8.	876449-B21	HPE Synergy 4820C 10/20/25Gb Converged Network Adapter	1
9.	876449-B21 0D1	Factory Integrated	1
10.	700139-B21	HPE 32GB microSD Flash Memory Card	1
11.	700139-B21 0D1	Factory Integrated	1
12.	P14255-B21	HPE Synergy 480 Gen10 PCIe x4 Expansion Module	1
13.	R0W29C	HPE NVIDIA Tesla T4 16GB Computational Accelerator	4
14.	R0W29C 0D1	Factory Integrated	4
15.	AC111A	HPE ProLiant Door/dock Small Logistic Service	1
16.	HT7A6A3	HPE 3Y DC 24x7 wDMR Addon SVC	1
17.	HT7A6A3 W4A	HPE SY480 Gen10 Support	1
18.	HT7A6A3 X0Z	HPE SY480 Exp Module Support	1

C.18 HPE DL380 Gen10 24SFF 768GB

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1.	P19719-B21	HPE DL380 Gen10 24SFF NC CTO Svr	1
2.	P19719-B21 B19	HPE DL380 G10 CTO Mod-X 24SFF WO NIC	1
3.	P24473-L21	Intel Xeon-Gold 6248R (3.0GHz/24-core/205W) FIO Processor Kit for HPE ProLiant DL380 Gen10	1
4.	P24473-B21	Intel Xeon-Gold 6248R (3.0GHz/24-core/205W) Processor Kit for HPE ProLiant DL380 Gen10	1
5.	P24473-B21 OD1	Factory Integrated	1
6.	P00930-B21	HPE 64GB (1x64GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	12
7.	P00930-B21 OD1	Factory Integrated	12
8.	826687-B21	HPE DL38X Gen10 2SFF Premium HDD Front NVMe or Front/Rear SAS/SATA Kit	1
9.	826687-B21 OD1	Factory Integrated	1
10.	P04541-B21	HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	2
11.	P04541-B21 OD1	Factory Integrated	2
12.	P18422-B21	HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSD	2
13.	P18422-B21 OD1	Factory Integrated	2
14.	P19915-B21	HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty SSD	10
15.	P19915-B21 OD1	Factory Integrated	10
16.	870548-B21	HPE DL Gen10 x8/x16/x8 Riser Kit	1
17.	870548-B21 OD1	Factory Integrated	1
18.	817738-B21	HPE Ethernet 10Gb 2-port 562T Adapter	1
19.	817738-B21 OD1	Factory Integrated	1
20.	830824-B21	HPE Smart Array P408i-p SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS PCIe Plug-in Controller	1
21.	830824-B21 OD1	Factory Integrated	1
22.	870549-B21	HPE DL38X Gen10 12Gb SAS Expander Card Kit with Cables	1
23.	870549-B21 OD1	Factory Integrated	1
24.	P01366-B21	HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	1
25.	P01366-B21 OD1	Factory Integrated	1
26.	804326-B21	HPE Smart Array E208i-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular Controller	1
27.	804326-B21 OD1	Factory Integrated	1
28.	817745-B21	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	1
29.	817745-B21 OD1	Factory Integrated	1
30.	865414-B21	HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	2
31.	865414-B21 OD1	Factory Integrated	2
32.	BD505A	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	1
33.	BD505A OD1	Factory Integrated	1
34.	P8B31A	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	1
35.	733664-B21	HPE 2U Cable Management Arm for Easy Install Rail Kit	1
36.	733664-B21 OD1	Factory Integrated	1
37.	733660-B21	HPE 2U Small Form Factor Easy Install Rail Kit	1
38.	733660-B21 OD1	Factory Integrated	1
39.	AC114A	HPE ProLiant Door/dock Medium Logistic Service	1
40.	HT7A5A3	HPE 3Y Datacenter Care 24x7 Addon SVC	1
41.	HT7A5A3 R2M	HPE iLO Advanced Non Blade Support	1
42.	HT7A5A3 SVP	HPE One View w/o iLO Support	1
43.	HT7A5A3 WAH	HPE DL38x Gen10 Support	1

C.19 Dell-EMC PowerEdge MX7000 Blade Enclosure

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[210-ANY]Y]	PowerEdge MX7000 Chassis	1
2	[321-BDJT]	PowerEdge MX7000 Chassis Configuration	1
3	[340-CHGN], [340-CHGO]	MX7000 EMEA1 Ship Docs (English/French/German/Spanish/Russian/Hebrew)	1
4	[770-BCPC]	ReadyRail II for MX7000	1
5	[403-BBTY]	Redundant Management Module for PowerEdge MX7000 Chassis	1
6	[340-CJQG]	Ethernet switch or Fabric Expander	2
7	[340-CJQH], [543-BBDP]	No I/O Module, Filler Blank	2
8	[555-BEPU]	2 Fibre Channel Switches	1
9	[450-AGXF]	PowerEdge MX7000 Redundant Power Supply, 6 x 3000W, (3+3)	1
10	[450-AHTB]	C20 to C21, PDU Style, 16 AMP, 2.5 Meters, Power Cord	6
11	[631-AACK]	No Systems Documentation, No OpenManage DVD Kit	1
12	[389-CGLC]	Legacy Password	1
13	[492-BCHP]	Cable,Dell Mini Display Port to VGA Adapter	1
14	[350-BBPH]	Quick Sync with LCD	1
15	[709-BBIM]	Basic Next Business Day 36 Months, 36 Month(s)	1
16	[865-BBMY]	ProSupport and Next Business Day Onsite Service, 36 Month(s)	1
17	[683-21794], [683-21795], [706-12561]	ProDeploy Plus Dell EMC PowerEdge MX7000 Chassis	1
		Dell EMC MX7116N 25GbE Fabric Expander Module[5]	
18	[210-ANUK]	Dell EMC MX7116N 25GbE Fabric Expander Module	1
19	[389-CGOP]	Switch Factory Installed in MX7000 slot A2	1
20	[470-ACTF]	Dell Networking Cable, 2x100GbE, QSFP28-DD to QSFP28-DD, Active Optical Cable, No FEC, 10M	1
21	[470-ACTP]	Dell Networking Cable, 2x100GbE, QSFP28-DD to QSFP28-DD, Passive Copper Direct Attach, No FEC, 0.5M	1
22	[709-13025], [709-16804]	3Yr Basic Warranty - Next Business Day - Minimum Warranty	1
23	[683-11870]	No Installation Selected (Contact Sales rep for more details)	1
24	[865-81459]	3Yr ProSupport and Next Business Day Onsite Service	1
25			
	[210-AOCI]	Dell EMC MXG610S switch, up to 32 port FC32, incl 8x activated ports,FI & 2x FC32 SFP+ optics	1
26	[389-CGOT]	Switch Factory Installed in MX7000 slot C2	1
27	[528-BFOE]	Dell EMC MXG610S ENT Feature License	1

		Bundle (Trunking, Extended Fabric, and Fabric Vision), DF	
28	[528-BFOY]	Dell EMC MXG610S 8 Ports-On-Demand activation, no additional optics, DF	1
29	[470-ACMH]	Dell Networking Cable, LC to LC Fiber Cable, MMF, OM4, Optics Required, 10M	2
30	[709-13393], [709-16810]	3Yr Parts Only Warranty	1
31	[865-81606]	3Yr ProSupport and Next Business Day On-Site Service	1
32	[683-11870]	No Installation Service Selected (Contact Sales rep for more details)	1
		Dell EMC MXG610S switch	
33	[210-AODD]	Dell EMC MX9116N 25GbE Fabric Switching Engine, 12x QDD28, 2x Q28, 2 x Q28/32GFC	1
34	[389-CGOO]	Switch Factory Installed in MX7000 slot A1	1
35	[634-BPKE]	OS10 Enterprise MX9116N, POS	1
36	[470-ABOB]	Dell Networking Cable, 100GbE, QSFP28 to QSFP28, Active Optical Cable, 10M	1
37	[709-13025], [709-16795]	3Yr Basic Warranty - Next Business Day - Minimum Warranty	1
38	[683-11870]	No Installation Selected (Contact Sales rep for more details)	1
39	[865-81355]	3Yr ProSupport and Next Business Day Onsite Service	1
40		Dell EMC MX9116N 25GbE Fabric Switching Engine	
41	[210-AOCI]	Dell EMC MXG610S switch, up to 32 port FC32, incl 8x activated ports, FI & 2x FC32 SFP+ optics	1
42	[389-CGOS]	Switch Factory Installed in MX7000 slot C1	1
43	[528-BFOE]	Dell EMC MXG610S ENT Feature License Bundle (Trunking, Extended Fabric, and Fabric Vision), DF	1
44	[528-BFOY]	Dell EMC MXG610S 8 Ports-On-Demand activation, no additional optics, DF	1
45	[470-ACMH]	Dell Networking Cable, LC to LC Fiber Cable, MMF, OM4, Optics Required, 10M	2
46	[709-13393], [709-16810]	3Yr Parts Only Warranty	1
47	[865-81606]	3Yr ProSupport and Next Business Day On-Site Service	1
48	[683-11870]	No Installation Service Selected (Contact Sales rep for more details)	1

C.20 Dell-EMC PowerEdge R540 Server Standard

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[210-ALZH]	PowerEdge R540 Server	1
2	[321-BCWW], [405-AAOM]	3.5" Chassis with up to 8 Hot Plug Hard Drives	1
3	[461-AADZ]	No Trusted Platform Module	1
4	[338-BVKD]	Intel® Xeon® Silver 4210R 2.4G, 10C/20T, 9.6GT/s, 13.75M Cache, Turbo, HT (100W)	1

		DDR4-2400	
5	[374-BBBX]	No Additional Processor	1
6	[340-ADBJ]	Thermal for non 1x FH Riser	1
7	[370-AAIP]	Performance Optimized	1
8	[370-ADNU]	2667MT/s RDIMMs	1
9	[370-ADND]	16GB RDIMM, 2667MT/s, Dual Rank	2
10	[619-ABVR]	No Operating System	1
11	[605-BBFN]	No Media Required	1
12	[780-BCDS]	C7, Unconfigured RAID for HDDs or SSDs (Mixed Drive Types Allowed)	1
13	[405-AAOE]	PERC H730P RAID Controller, 2Gb NV Cache, Adapter, Low Profile	1
14	[400-ASGT]	600GB 10K RPM SAS 12Gbps 512n 2.5in Hot-plug Hard Drive, 3.5in HYB CARR	2
15	[384-BBBL]	Performance BIOS Setting	1
16	[450-AGUH]	Single, Hot-plug PS, 750W	1
17	[450-AADY]	Rack Power Cord 2M (C13/C14 10A)	1
	[330-BBIU]	2xLP, 1 CPU No Riser Configuration	1
18	[385-BBLC]	iDRAC9, Express	1
19	[542-BBCR]	Dual-Port 1GbE On-Board LOM	1
20	[350-BBBW], [350-BBLI]	No Bezel	1
21	[350-BBKU]	No Quick Sync	1
22	[770-BBBS]	No Rack Rails or Cable Management Arm	1
23	[379-BCSG]	iDRAC, Legacy Password	1
24	[379-BCQY]	iDRAC Group Manager, Disabled	1
25	[429-AAQN]	No Internal Optical Drive for 8 HDD Chassis	1
	[329-BFBK]	PowerEdge R540 MLK Motherboard, V2	1
26	[293-10049]	Order Configuration Shipbox Label (Ship Date, Model, Processor Speed, HDD Size, RAM)	1
27	[293-10025]	Asset Tag - ProSupport (Website, barcode, Onboard MacAddress)	1
28	[631-AACK]	No Systems Documentation, No OpenManage DVD Kit	1
29	[340-BYXL]	PowerEdge R540 Shipping Material	1
30	[389-DSZJ]	PowerEdge R540 CE, CCC, BIS Marking	1
31	[340-COSW]	PowerEdge R540 Shipping EMEA1 (English/French/German/Spanish/Russian/Hebrew) V2	1
32	[709-BBIL]	Basic Next Business Day 36 Months, 36 Month(s)	1
33	[683-11870]	No Installation Service Selected (Contact Sales rep for more details)	1

C.21 Dell-EMC PowerEdge C6400

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[210-ALBU]	PowerEdge C6400	1
2	[321-BCOO]	PowerEdge C6400 Enclosure, 2.5" NVME, V3	1
3	[450-AGFO]	Dual, Hot-plug Fault Tolerant Redundant Power Supply (1+1), 2400W, C19/C20 Power Cord Required	1

4	[450-AAFL]	No Power Cord	1
5	[770-BCFZ]	PEC Static Rails	1
6	[492-BCFI]	Dell Adapter - Mini DisplayPort to VGA for C6400	1
7	[400-ASDP], [400-ASDP], [400-ASDP], [400-ASDP], [400-ASDP], [750-AAUO]	PowerEdge C6400 Blank Tray with 2.5" HD blanks	2
8	[631-AACK]	No Systems Documentation, No OpenManage DVD Kit	1
9	[340-BSYH], [340-CQGU]	PowerEdge C6400 Chassis with C6420 Sleds, EMEA 1 v2	1
10	[888-10066]	Not required	1
11	[389-DUUB]	PowerEdge C6420 CE and BIS Marking	1
12	[709-BBHX]	Basic Next Business Day 12 Months, 12 Month(s)	1
13	[865-BBKQ]	ProSupport and Next Business Day Onsite Service, 12 Month(s)	1
14	[683-11870]	No Installation Service Selected (Contact Sales rep for more details)	1

C.22 Dell-EMC PowerEdge C6525- Full Configuration

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[379-BDTF]	Chassis with up to 24x2.5" Drives	1
2	[379-BDSW]	SAS/SATA/NVMe Capable Backplane	1
3	[210-ATFB]	PowerEdge C6525	1
4	[461-AAGY]	Trusted Platform Module 2.0	1
5	[340-BLEY]	COMPLEX ORDER Shipping PowerEdge C6400 - C6420/C6525 v2	1
6	[321-BEWS]	PowerEdge C6525, 2.5 NVME Chassis, (Chipset SATA)	1
7	[338-BSWF]	AMD EPYC 7402 2.80GHz, 24C/48T, 128M Cache (180W) DDR4-3200	1
8	[338-BSWF], [379-BDCO]	AMD EPYC 7402 2.80GHz, 24C/48T, 128M Cache (180W) DDR4-3200	1
9	[379-BDPT]	C6525 Heatsink for CPU2	1
10	[370-AAIP]	Performance Optimized	1
11	[370-AEVR]	3200MT/s RDIMMs	1
12	[370-AEVN]	32GB RDIMM, 3200MT/s, Dual Rank	16
13	[780-BCDM]	C20, No RAID with Embedded SATA for SATA HDDs or SATA SSDs (Mixed Drive Types Allowed)	1
14	[370-ADRU]	No BOSS Card Selected, M.2 Blank Riser Only	1
15	[405-AACD]	On-board SATA Controller	1
16	[400-AXSW]	960GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD, 1752 TBW	1
17	[400-ASDP]	2.5in HDD Blank, C6400	5
18	[384-BBBL]	Performance BIOS Setting	1
19	[379-BDVW]	Dual, Hot-plug, Non-Redundant Power Supply (2+0), 2400W	1
20	[330-BBNZ]	Riser Config 1, 1A, one X16LP	1

21	[385-BBPR]	BMC	1
22	[379-BCQY]	iDRAC Group Manager, Disabled	1
23	[611-BBBF]	No Operating System	1
24	[605-BBFN]	No Media Required	1
25	[631-AACK]	No Systems Documentation, No OpenManage DVD Kit	1
26	[340-COND]	PowerEdge C6525/C6400 Complex Tied Order Ship	1
27	[340-CQZF]	PowerEdge CE Marking	1
28	[540-BCRE]	M.2 Linking SATA Cable for 2.5 NVME, C6525	1
29	[709-BBHX]	Basic Next Business Day 12 Months, 12 Month(s)	1
30	[865-BBKQ]	ProSupport and Next Business Day Onsite Service, 12 Month(s)	1
31	[683-21782]	Basic Deployment Dell Server C6xxx Series Compute	1
32	[888-10066]	Not required	1
33	[293-10049]	Order Configuration Shipbox Label (Ship Date, Model, Processor Speed, HDD Size, RAM)	1

C.23 Dell-EMC PowerEdge C4140 - Full Configuration

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[210-ANUI]	PowerEdge C4140 Server	1
2	[321-BEUY]	Chassis with 4GPU Capable, and 2 CPUs, MLK	1
3	[461-AAEM]	Trusted Platform Module 2.0	1
4	[338-BSGU]	Intel® Xeon® Gold 6252 2.1G, 24C/48T, 10.4GT/s, 35.75M Cache, Turbo, HT (150W) DDR4-2933	1
5	[338-BSGU], [379-BDCO]	Intel® Xeon® Gold 6252 2.1G, 24C/48T, 10.4GT/s, 35.75M Cache, Turbo, HT (150W) DDR4-2933	1
6	[370-ABWE], [412-AAIP], [412-AAIP]	2 Heatsink for CPU 165W or greater	1
7	[370-AAIP]	Performance Optimized	1
8	[370-AEPP]	2933MT/s RDIMMs	1
9	[370-AEQH]	32GB RDIMM, 2933MT/s, Dual Rank	12
10	[619-ABVR]	No Operating System	1
11	[605-BBFN]	No Media Required	1
12	[403-BCHI]	BOSS controller card + with 2 M.2 Sticks 240G (RAID 1),LP	1
13	[780-BCDH]	C0, Diskless Configuration (No RAID, No Controller)	1
14	[405-AACD]	No controller (for no Backplane Chassis)	1
15	[400-ABHL]	No Hard Drive	1
16	[384-BBBL]	Performance BIOS Setting	1
17	[450-AGFO]	Dual,Hot-plug Power Supply , 2400W,250 Volt Power Cord Required for Use	1
18	[450-AEJI]	C19 to C20, PDU Style, 2.5M Power Cord, Qty 1	2

19	[385-BBKT]	iDRAC9,Enterprise	1
20	[540-BBUZ]	Intel X550 Dual Port 10GbE Base-T & i350 Dual Port 1GbE BASE-T, rNDC	1
21	[490-BENZ]	NVIDIA Tesla V100 SXM2 32G GPU Accelerator for NV Link	4
22	[350-BBBW]	No Bezel	1
23	[770-BBLN]	No Rack Rails or Cable Management Arm	1
24	[379-BCSG]	iDRAC,Legacy Password	1
25	[379-BCQY]	iDRAC Group Manager, Disabled	1
26	[321-BEBD]	Config M	1
27	[293-10049]	Order Configuration Shipbox Label (Ship Date, Model, Processor Speed, HDD Size, RAM)	1
28	[888-10066]	Not required	1
29	[631-AACK]	No Systems Documentation, No OpenManage DVD Kit	1
30	[340-CBNW]	PowerEdge C4140 Shipping Material	1
31	[343-BBJG]	PowerEdge C4140 Shipping, EMEA1	1
32	[709-BBIN]	Basic Next Business Day 36 Months, 36 Month(s)	1
33	[865-BBMY]	ProSupport and Next Business Day Onsite Service, 36 Month(s)	1
34	[683-11870]	No Installation Service Selected (Contact Sales rep for more details)	1

C.24 Dell-EMC PowerEdge C6400 - Full Configuration

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[210-ALBU]	PowerEdge C6400	1
2	[321-BFBS]	PowerEdge C6400 Enclosure, 2.5" Hard Drives, V3	1
3	[450-AJRT], [780-BCEQ]	Dual,Hot-plug Power Supply, 2400W,250 Volt Power Cord Required for Use	1
4	[450-AAFL]	No Power Cord	1
5	[770-BCFZ]	PEC Static Rails	1
6	[492-BCFI]	Dell Adapter - Mini DisplayPort to VGA for C6400	1
7	[631-AACK]	No Systems Documentation, No OpenManage DVD Kit	1
8	[340-BSYH], [340-CQGU]	PowerEdge C6400 Chassis with C6420 Sleds, EMEA 1 v2	1
9	[888-10066]	Not required	1
10	[389-DUUB]	PowerEdge C6420 CE and BIS Marking	1
11	[709-BBHX]	Basic Next Business Day 12 Months, 12 Month(s)	1
12	[865-BBKQ]	ProSupport and Next Business Day Onsite Service, 12 Month(s)	1
13	[683-11870]	No Installation Service Selected (Contact Sales rep for more details)	1

C.25 Dell-EMC PowerEdge C6420 - Full Configuration

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[210-ALBP]	PowerEdge C6420	1
2	[321-BEMT]	PowerEdge C6420, 2.5 Direct Chassis MLK	1
3	[338-BRVN]	Intel® Xeon® Gold 6230 2.1G, 20C/40T, 10.4GT/s, 27.5M Cache, Turbo, HT (125W) DDR4-2933	1
4	[338-BRVN], [379-BDCO]	Intel® Xeon® Gold 6230 2.1G, 20C/40T, 10.4GT/s, 27.5M Cache, Turbo, HT (125W) DDR4-2933	1
5	[370-ADPN], [412-AAIX], [412-AAIZ], [750-AAUR], [750-AAUR]	C6420 Heatsinks for NonFabric CPU (2 CPU)	1
6	[370-AAIP]	Performance Optimized	1
7	[370-AEPP]	2933MT/s RDIMMs	1
8	[370-AEQH]	32GB RDIMM, 2933MT/s, Dual Rank	12
9	[619-ABVR]	No Operating System	1
10	[605-BBFN]	No Media Required	1
11	[780-BCER]	C2A, Onboard Controller, C6420 1U Direct BP, NO RAID, Supports up to 6x2.5in Hard Drives	1
12	[470-ACJF]	Embedded SATA (for 2.5/3.5 Direct chassis)	1
13	[400-AXSW]	960GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD, 1752 TBW	1
14	[400-ASDP]	2.5in HDD Blank, C6400	5
15	[750-AABF]	Power Saving Dell Active Power Controller	1
16	[379-BDVN]	Dual, Hot-plug, Redundant Power Supply (1+1), 2400W	1
17	[461-AADZ]	No Trusted Platform Module	1
18	[385-BBKX], [528-BIYY]	iDRAC9 Enterprise with OpenManage Enterprise Advanced	1
19	[379-BCQV]	iDRAC Group Manager, Enabled	1
20	[293-10049]	Order Configuration Shipbox Label (Ship Date, Model, Processor Speed, HDD Size, RAM)	1
21	[370-ADRU]	M.2 Blank Filler (for M.2 x16 Riser)	1
22	[631-AACK]	No Systems Documentation, No OpenManage DVD Kit	1
23	[888-10066]	Not required	1
24	[340-CQZD]	PowerEdge CE Marking, C6420	1
25	[709-BBHX]	Basic Next Business Day 12 Months, 12 Month(s)	1
26	[865-BBKQ]	ProSupport and Next Business Day Onsite Service, 12 Month(s)	1
27	[683-11870]	No Installation Service Selected (Contact Sales rep for more details)	1

C.26 Dell-EMC PowerEdge R940 - Full Configuration

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[210-AKWP]	PowerEdge R940 Server	1

2	[321-BCMQR]	2.5" Chassis with up to 24 Hard Drives	1
3	[461-AAEM]	Trusted Platform Module 2.0	1
4	[338-BSIH]	2x Intel® Xeon® Platinum 8260 2.4G, 24C/48T, 10.4GT/s, 35.75M Cache, Turbo, HT (165W) DDR4-2933	1
5	[338-BSIH], [379-BDNR]	2x Intel® Xeon® Platinum 8260 2.4G, 24C/48T, 10.4GT/s, 35.75M Cache, Turbo, HT (165W) DDR4-2933	1
6	[379-BCQQ]	4 CPU Heatsink	1
7	[370-AAIP]	Performance Optimized	1
8	[370-AEPP]	2933MT/s RDIMMs	1
9	[370-AEQD]	64GB RDIMM, 2933MT/s, Dual Rank	24
10	[619-ABVR]	No Operating System	1
11	[605-BBFN]	No Media Required	1
12	[780-BCDS]	C7, Unconfigured RAID for HDDs or SSDs (Mixed Drive Types Allowed)	1
13	[405-AANR]	PERC H740P RAID Controller, 8Gb NV Cache, Adapter, Full Height	1
14	[400-AXSW]	960GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD, 1752 TBW	1
15	[750-AABF]	Power Saving Dell Active Power Controller	1
16	[800-BBDM]	UEFI BIOS Setting	1
17	[450-AFMR]	Single, Hot-plug Power Supply (1+0), 1600W, 250 Volt Power Cord Recommended	1
18	[450-AADY]	Rack Power Cord 2M (C13/C14 10A)	1
19	[385-BBKT], [528-BIYY]	iDRAC9 Enterprise with OpenManage Enterprise Advanced	1
20	[540-BBUK]	Broadcom 57416 Dual Port 10GbE BASE-T & 5720 Dual Port 1GbE BASE-T, rNDC	1
21	[350-BBJJ], [350-BBJQ]	PowerEdge R940 Bezel	1
22	[350-BBJG]	No Quick Sync	1
23	[770-BCGC], [770-BCGD]	ReadyRails™ Sliding Rails With Cable Management Arm	1
24	[379-BCSG]	iDRAC Legacy Password	1
25	[379-BCQY]	iDRAC Group Manager, Disabled	1
26	[293-10049]	Order Configuration Shipbox Label (Ship Date, Model, Processor Speed, HDD Size, RAM)	1
27	[631-AACK]	No Systems Documentation, No OpenManage DVD Kit	1
28	[343-BBFE]	PowerEdge R940 Shipping Material	1
29	[389-DSYD]	PowerEdge R940 CE and BIS Marking, No CCC Marking	1
30	[343-BBPG]	PowerEdge R940 Shipping, EMEA1 v2	1
31	[293-10025]	Asset Tag - ProSupport (Website, barcode, Onboard MacAddress)	1
32	[709-BBIN]	Basic Next Business Day 36 Months, 36 Month(s)	1
33	[865-BBNF]	Prosupport Plus and 4Hr Mission Critical, 36 Month(s)	1
34	[683-19201], [683-19202]	ProDeploy Dell Server R Series 1U/2U	1

C.27 Dell-EMC PowerEdge R740 Server Optimal

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[210-AKXJ]	PowerEdge R740 Server	1
2	[321-BCSM]	Chassis with up to 8 x 2.5" SAS/SATA Hard Drives for 2CPU Configuration	1
3	[461-AAEM]	Trusted Platform Module 2.0	1
4	[338-BSDO]	Intel Xeon Silver 4216 2.1G, 16C/32T, 9.6GT/s, 22M Cache, Turbo, HT (100W) DDR4-2400	1
5	[338-BSDO], [379-BDCO]	Intel® Xeon® Silver 4216 2.1G, 16C/32T, 9.6GT/s, 22M Cache, Turbo, HT (100W) DDR4-2400	1
6	[412-AAIQ], [412-AAIQ]	2 Standard Heatsinks for 125W or less CPUs	1
7	[370-AAIP]	Performance Optimized	1
8	[370-AEPP]	2933MT/s RDIMMs	1
9	[370-AEQF]	16GB RDIMM, 2933MT/s, Dual Rank	12
10	[619-ABVR]	No Operating System	1
11	[605-BBFN]	No Media Required	1
12	[780-BCDS]	C7, Unconfigured RAID for HDDs or SSDs (Mixed Drive Types Allowed)	1
13	[405-AAOE]	PERC H730P RAID Controller, 2Gb NV Cache, Adapter, Low Profile	1
14	[400-AXTV]	480GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD, 876 TBW	1
15	[750-AABF]	Power Saving Dell Active Power Controller	1
16	[384-BBPY]	6 Standard Fans for R740/740XD	1
17	[450-ADWS]	Dual, Hot-plug, Redundant Power Supply (1+1), 750W	1
18	[450-AADY]	Rack Power Cord 2M (C13/C14 10A)	2
19	[330-BBGZ]	Riser Config 1, 4 x8 slots	1
20	[385-BBKT]	iDRAC9,Enterprise	1
21	[540-BBBW]	Broadcom 5720 Quad Port 1GbE BASE-T, rNDC	1
22	[325-BCHU], [350-BBKG]	PowerEdge 2U Standard Bezel	1
23	[350-BBJV]	No Quick Sync	1
24	[770-BBBS]	No Rack Rails or Cable Management Arm	1
25	[379-BCSF]	iDRAC,factory Random Password	1
26	[379-BCQV]	iDRAC Group Manager, Enabled	1
27	[429-ABBJ]	No Internal Optical Drive	1
28	[293-10049]	Order Configuration Shipbox Label (Ship Date, Model, Processor Speed, HDD Size, RAM)	1
29	[631-AACK]	No Systems Documentation, No OpenManage DVD Kit	1
30	[343-BBFG]	PowerEdge R740 Shipping Material	1
31	[389-DTDL]	PowerEdge R740 CE,CCC,BIS Marking	1
32	[340-COVZ]	PowerEdge R740 Shipping EMEA1 (English/French/German/Spanish/Russian/Hebrew)	1
33	[293-10025]	Asset Tag - ProSupport (Website, barcode, Onboard MacAddress)	1
34	[709-BBIM]	Basic Next Business Day 36 Months, 36	1

		Month(s)	
35	[683-11870]	No Installation Service Selected (Contact Sales rep for more details)	1

C.28 Dell-EMC PowerEdge R740 Server Basic - [PER7400M]

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[210-AKXJ]	PowerEdge R740 Server	1
2	[321-BCSJ]	Chassis with up to 8 x 2.5" SAS/SATA Hard Drives for 1CPU Configuration	1
3	[461-AAEM]	Trusted Platform Module 2.0	1
4	[338-BSWX]	Intel Xeon Silver 4208 2.1G, 8C/16T, 9.6GT/s, 11M Cache, Turbo, HT (85W) DDR4-2400	1
5	[374-BBBX]	No Additional Processor	1
6	[370-ADPF], [412-AAIQ]	1 Standard Heatsink for 125W or less CPU	1
7	[370-AAIP]	Performance Optimized	1
8	[370-AEPP]	2933MT/s RDIMMs	1
9	[370-AEQF]	16GB RDIMM, 2933MT/s, Dual Rank	2
10	[619-ABVR]	No Operating System	1
11	[605-BBFN]	No Media Required	1
12	[780-BCDS]	C7, Unconfigured RAID for HDDs or SSDs (Mixed Drive Types Allowed)	1
13	[405-AANU]	PERC H330 RAID Controller, Minicard	1
14	[400-AXTV]	480GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD, 876 TBW	1
15	[750-AABF]	Power Saving Dell Active Power Controller	1
16	[384-BBQB]	4 Standard Fans for R740/740XD	1
17	[450-ADWP]	Single, Hot-plug Power Supply (1+0), 495W	1
18	[450-AADY]	Rack Power Cord 2M (C13/C14 10A)	1
19	[330-BBGZ]	Riser Config 1, 4 x8 slots	1
20	[385-BBKT]	iDRAC9,Enterprise	1
21	[540-BBBW]	Broadcom 5720 Quad Port 1GbE BASE-T, rNDC	1
22	[325-BCHU], [350-BBKG]	PowerEdge 2U Standard Bezel	1
23	[350-BBJV]	No Quick Sync	1
24	[770-BBBS]	No Rack Rails or Cable Management Arm	1
25	[379-BCSF]	iDRAC,factory Random Password	1
26	[379-BCQV]	iDRAC Group Manager, Enabled	1
27	[429-ABBJ]	No Internal Optical Drive	1
28	[293-10049]	Order Configuration Shipbox Label (Ship Date, Model, Processor Speed, HDD Size, RAM)	1
29	[631-AACK]	No Systems Documentation, No OpenManage DVD Kit	1
30	[343-BBFG]	PowerEdge R740 Shipping Material	1
31	[389-DTDL]	PowerEdge R740 CE,CCC,BIS Marking	1
32	[340-COVZ]	PowerEdge R740 Shipping EMEA1 (English/French/German/Spanish/Russian/Hebrew)	1
33	[293-10025]	Asset Tag - ProSupport (Website, barcode, Onboard MacAddress)	1
34	[709-BBIM]	Basic Next Business Day 36 Months, 36	1

		Month(s)	
35	[683-11870]	No Installation Service Selected (Contact Sales rep for more details)	1

C.29 Dell-EMC PowerEdge R640 Server Optimal - [PER6404M]

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[210-AKWU]	PowerEdge R640 Server	1
2	[321-BCQJ]	2.5" Chassis with up to 8 Hard Drives and 3PCIe slots, 1 or 2 CPU	1
3	[461-AAEM]	Trusted Platform Module 2.0	1
4	[338-BVKD]	Intel® Xeon® Silver 4210R 2.4G, 10C/20T, 9.6GT/s, 13.75M Cache, Turbo, HT (100W) DDR4-2400	1
5	[338-BVKD], [379-BDCO]	Intel® Xeon® Silver 4210R 2.4G, 10C/20T, 9.6GT/s, 13.75M Cache, Turbo, HT (100W) DDR4-2400	1
6	[370-ABWE], [412-AAIQ], [412-AAIQ]	2 Standard Heatsinks for 165W or less CPUs	1
7	[370-AAIP]	Performance Optimized	1
8	[370-AEPP]	2933MT/s RDIMMs	1
9	[370-AEQF]	16GB RDIMM, 2933MT/s, Dual Rank	12
10	[619-ABVR]	No Operating System	1
11	[605-BBFN]	No Media Required	1
12	[780-BCDS]	C7, Unconfigured RAID for HDDs or SSDs (Mixed Drive Types Allowed)	1
13	[405-AANT]	PERC H730P RAID Controller, 2Gb NV Cache, Minicard	1
14	[400-AXTV]	480GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD, 876 TBW	2
15	[750-AABF]	Power Saving Dell Active Power Controller	1
16	[450-ADWS]	Dual, Hot-plug, Redundant Power Supply (1+1), 750W	1
17	[450-AADY]	Rack Power Cord 2M (C13/C14 10A)	2
18	[330-BBGY]	Riser Config 4, 2x16 LP	1
19	[385-BBKT]	iDRAC9,Enterprise	1
20	[540-BBUK]	Broadcom 57416 Dual Port 10GbE BASE-T & 5720 Dual Port 1GbE BASE-T, rNDC	1
21	[325-BCHH], [350-BBJS]	Standard Bezel for x4 and x8 chassis	1
22	[350-BBKB]	No Quick Sync	1
23	[770-BBHJ]	No Rack Rails or Cable Management Arm	1
24	[379-BCSF]	iDRAC,factory Random Password	1
25	[379-BCQV]	iDRAC Group Manager, Enabled	1
26	[429-ABBF]	No Internal Optical Drive	1
27	[384-BBQJ]	8 Standard Fans for R640	1
28	[293-10025]	Asset Tag - ProSupport (Website, barcode, Onboard MacAddress)	1
29	[293-10049]	Order Configuration Shipbox Label (Ship Date, Model, Processor Speed, HDD Size, RAM)	1
30	[486-39291]	PER6404M	1
31	[631-AACK]	No Systems Documentation, No OpenManage DVD Kit	1

32	[340-BYRV]	PowerEdge R640 Shipping Material for 8 HDD chassis	1
33	[389-DTIV]	PowerEdge R640 CE,CCC,BIS Marking	1
34	[340-COXT]	PowerEdge R640 Shipping EMEA1 (English/French/German/Spanish/Russian/Hebrew)	1
35	[709-BBIM]	Basic Next Business Day 36 Months, 36 Month(s)	1
36	[683-11870]	No Installation Service Selected (Contact Sales rep for more details)	1

C.30 Dell-EMC PowerEdge R740XD Server Optimal - [PER740xd01M]

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[210-AKZR]	PowerEdge R740XD Server	1
2	[321-BCPU]	Chassis with Up to 12 x 3.5" Hard Drives for 2CPU Configuration	1
3	[461-AADZ]	No Trusted Platform Module	1
4	[338-BSGI]	Intel® Xeon® Gold 5222 3.8G, 4C/8T, 10.4GT/s, 16.5M Cache, Turbo, HT (105W) DDR4-2933	1
5	[338-BSGI], [379-BDCO]	Intel® Xeon® Gold 5222 3.8G, 4C/8T, 10.4GT/s, 16.5M Cache, Turbo, HT (105W) DDR4-2933	1
6	[412-AAIQ], [412-AAIQ]	2 Standard Heatsinks for 125W or less CPUs	1
7	[370-AAIP]	Performance Optimized	1
8	[370-AEPP]	2933MT/s RDIMMs	1
9	[370-AEQF]	16GB RDIMM, 2933MT/s, Dual Rank	2
10	[619-ABVR]	No Operating System	1
11	[605-BBFN]	No Media Required	1
12	[780-BCDS]	C7, Unconfigured RAID for HDDs or SSDs (Mixed Drive Types Allowed)	1
13	[405-AAMR]	PERC H730P RAID Controller, 2Gb NV Cache, Adapter, Full Height	1
14	[400-AXRJ]	480GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 3.5in HYB CARR, 1 DWPD, 876 TBW	2
15	[750-AABF]	Power Saving Dell Active Power Controller	1
16	[800-BBDM]	UEFI BIOS Setting	1
17	[450-ADWS]	Dual, Hot-plug, Redundant Power Supply (1+1), 750W	1
18	[450-AADY]	Rack Power Cord 2M (C13/C14 10A)	2
19	[330-BBHC]	Riser Config 5, 6 x8, 2 x16 slots	1
20	[385-BBKT], [528-BIYY]	iDRAC9 Enterprise with OpenManage Enterprise Advanced	1
21	[325-BCHU], [389-BTTO]	PowerEdge 2U Standard Bezel	1
22	[350-BBJV]	No Quick Sync	1
23	[770-BBBR]	ReadyRails™ Sliding Rails With Cable Management Arm	1
24	[379-BCSF]	iDRAC, factory Random Password	1
25	[379-BCQV]	iDRAC Group Manager, Enabled	1
26	[540-BBUL]	Broadcom 57412 Dual Port 10GbE SFP+ &	1

		5720 Dual Port 1GbE BASE-T rNDC	
27	[384-BBPY]	6 Standard Fans for R740/740XD	1
28	[293-10025]	Asset Tag - ProSupport (Website, barcode, Onboard MacAddress)	1
29	[293-10049]	Order Configuration Shipbox Label (Ship Date, Model, Processor Speed, HDD Size, RAM)	1
30	[340-COWC]	PowerEdge R740xd Shipping EMEA1 (English/French/German/Spanish/Russian/Hebrew)	1
31	[631-AAACK]	No Systems Documentation, No OpenManage DVD Kit	1
32	[343-BBFG]	PowerEdge R740 Shipping Materia	1
33	[389-DTDL]	PowerEdge R740 CE,CCC,BIS Marking	1
34	[709-BBIK]	Basic Next Business Day 36 Months, 36 Month(s)	1
35	[683-11870]	No Installation Service Selected (Contact Sales rep for more details)	1
36			

C.31 Dell-EMC PowerEdge R640 Server Basic - [PER6400M]

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[210-AKWU]	PowerEdge R640 Server	1
2	[321-BCQJ]	2.5" Chassis with up to 8 Hard Drives and 3PCIe slots, 1 or 2 CPU	1
3	[461-AAEM]	Trusted Platform Module 2.0	1
4	[338-BSWX]	Intel Xeon Silver 4208 2.1G, 8C/16T, 9.6GT/s, 11M Cache, Turbo, HT (85W) DDR4-2400	1
5	[374-BBBX]	No Additional Processor	1
6	[370-ADNM], [412-AAIQ]	1 Standard Heatsink for 165W or less CPU	1
7	[370-AAIP]	Performance Optimized	1
8	[370-AEPP]	2933MT/s RDIMMs	1
9	[370-AEQF]	16GB RDIMM, 2933MT/s, Dual Rank	2
10	[619-ABVR]	No Operating System	1
11	[605-BBFN]	No Media Required	1
12	[780-BCDS]	C7, Unconfigured RAID for HDDs or SSDs (Mixed Drive Types Allowed)	1
13	[405-AAEF]	PERC H330 RAID Controller, Minicard	1
14	[400-AXTV]	480GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD, 876 TBW	1
15	[750-AABF]	Power Saving Dell Active Power Controller	1
16	[450-ADWP]	Single, Hot-plug Power Supply (1+0), 495W	1
17	[450-AADY]	Rack Power Cord 2M (C13/C14 10A)	1
18	[330-BBGY]	Riser Config 4, 2x16 LP	1
19	[385-BBKT]	iDRAC9,Enterprise	1
20	[540-BBUK]	Broadcom 57416 Dual Port 10GbE BASE-T & 5720 Dual Port 1GbE BASE-T, rNDC	1
21	[325-BCHH], [350-BBJS]	Standard Bezel for x4 and x8 chassis	1
22	[350-BBKB]	No Quick Sync	1
23	[770-BBHJ]	No Rack Rails or Cable Management Arm	1
24	[379-BCSF]	iDRAC,factory Random Password	1

25	[379-BCQV]	iDRAC Group Manager, Enabled	1
26	[429-ABBF]	No Internal Optical Drive	1
27	[384-BBPR]	5 Standard Fans for R640	1
28	[293-10025]	Asset Tag - ProSupport (Website, barcode, Onboard MacAddress)	1
29	[293-10049]	Order Configuration Shipbox Label (Ship Date, Model, Processor Speed, HDD Size, RAM)	1
30	[486-39290]	PER6400M	1
31	[631-AAACK]	No Systems Documentation, No OpenManage DVD Kit	1
32	[340-BYRV]	PowerEdge R640 Shipping Material for 8 HDD chassis	1
33	[389-DTIV]	PowerEdge R640 CE,CCC,BIS Marking	1
34	[340-COXT]	PowerEdge R640 Shipping EMEA1 (English/French/German/Spanish/Russian/Hebrew)	1
35	[709-BBIM]	Basic Next Business Day 36 Months, 36 Month(s)	1
36	[683-11870]	No Installation Service Selected (Contact Sales rep for more details)	1

C.32 Dell-EMC PowerEdge R840-Full Configuration - [EMEA_R840_VI_VP]

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[210-AOJP]	PowerEdge R840 Server	1
2	[321-BDNX]	8 x 2.5" Chassis, 8 SAS/SATA bays, GPU Capable, 2/4CPU Configuration	1
3	[461-AAEM]	Trusted Platform Module 2.0	1
4	[338-BSFB]	2x Intel® Xeon® Gold 6230 2.1G, 20C/40T, 10.4GT/s, 27.5M Cache, Turbo, HT (125W) DDR4-2933	1
5	[338-BSFB], [379-BDNR]	2x Intel® Xeon® Gold 6230 2.1G, 20C/40T, 10.4GT/s, 27.5M Cache, Turbo, HT (125W) DDR4-2933	1
6	[412-AAANE]	4 CPU (GPU Ready)	1
7	[370-AAIP]	Performance Optimized	1
8	[370-AEPP]	2933MT/s RDIMMs	1
9	[370-AEQD]	64GB RDIMM, 2933MT/s, Dual Rank	24
10	[619-ABVR]	No Operating System	1
11	[605-BBFN]	No Media Required	1
12	[780-BCDI]	C1, No RAID for HDDs/SSDs (Mixed Drive Types Allowed)	1
13	[405-AANK]	HBA330 Controller, 12Gbps Adapter, Low Profile	1
14	[400-AXSW]	960GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD, 1752 TBW	1
15	[384-BBBH]	Power Saving BIOS Setting	1
16	[450-ADWL]	Single, Hot-plug Power Supply (1+0), 1100W	1
17	[450-AADY]	Rack Power Cord 2M (C13/C14 10A)	1

18	[330-BBKU]	Riser Config1, 4 PCIe slots (2 x16 Full height GRAPHICS slots + 2 x16 Low profile), GPU capable	1
19	[329-BEOT]	PowerEdge R840/R940xa MLK Motherboard	1
20	[385-BBKS]	iDRAC9, Express	1
21	[540-BBBW]	Broadcom 5720 Quad Port 1GbE BASE-T, rNDC	1
22	[325-BCHU], [389-CGZS]	PowerEdge 2U Standard Bezel	1
23	[350-BBOS]	No Quick Sync	1
24	[770-BCPR]	2U Combo Drop-In/Stab-In Rail	1
25	[379-BCSG]	iDRAC, Legacy Password	1
26	[379-BCQY]	iDRAC Group Manager, Disabled	1
27	[429-AAXQ]	No Internal Optical Drive for 8X Chassis	1
28	[631-AACK]	No Systems Documentation, No OpenManage DVD Kit	1
29	[343-BBIX]	PowerEdge R840 Shipping Material	1
30	[389-DSYF]	PowerEdge R840 CE, CCC, BIS Marking	1
31	[343-BBPI]	PowerEdge R840 Shipping, EMEA1 v2	1
32	[888-10066]	Not required	1
33	[709-BBIK]	Basic Next Business Day 36 Months, 36 Month(s)	1
34	[865-BBNF]	Prosupport Plus and 4Hr Mission Critical, 36 Month(s)	1
35	[683-19201], [683-19202]	ProDeploy Dell Server R Series 1U/2U	1
36			

C.33 Dell-EMC PowerEdge R740 Server Standard - [PER7402a]

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[210-AKXJ]	PowerEdge R740 Server	1
2	[321-BCSJ]	Chassis with up to 8 x 2.5" SAS/SATA Hard Drives for 1CPU Configuration	1
3	[461-AAEM]	Trusted Platform Module 2.0	1
4	[338-BVJX]	Intel® Xeon® Silver 4214R 2.4G, 12C/24T, 9.6GT/s, 16.5M Cache, Turbo, HT (100W) DDR4-2400	1
5	[374-BBBX]	No Additional Processor	1
6	[370-ADPF], [412-AAIQ]	1 Standard Heatsink for 125W or less CPU	1
7	[370-AAIP]	Performance Optimized	1
8	[370-AEPP]	2933MT/s RDIMMs	1
9	[370-AEQF]	16GB RDIMM, 2933MT/s, Dual Rank	4
10	[619-ABVR]	No Operating System	1
11	[605-BBFN]	No Media Required	1
12	[780-BCDS]	C7, Unconfigured RAID for HDDs or SSDs (Mixed Drive Types Allowed)	1
13	[405-AANU]	PERC H330 RAID Controller, Minicard	1
14	[400-ASHI]	1.2TB 10K RPM SAS 12Gbps 512n 2.5in Hot-plug Hard Drive	1
15	[750-AABF]	Power Saving Dell Active Power Controller	1
16	[384-BBQB]	4 Standard Fans for R740/740XD	1

17	[450-ADWP]	Single, Hot-plug Power Supply (1+0), 495W	1
18	[450-AADY]	Rack Power Cord 2M (C13/C14 10A)	1
19	[330-BBGZ]	Riser Config 1, 4 x8 slots	1
20	[385-BBKT]	iDRAC9,Enterprise	1
21	[540-BBBW]	Broadcom 5720 Quad Port 1GbE BASE-T, rNDC	1
22	[325-BCHU], [350-BBKG]	PowerEdge 2U Standard Bezel	1
23	[350-BBJV]	No Quick Sync	1
24	[770-BBBS]	No Rack Rails or Cable Management Arm	1
25	[379-BCSF]	iDRAC,factory Random Password	1
26	[379-BCQV]	iDRAC Group Manager, Enabled	1
27	[429-ABBJ]	No Internal Optical Drive	1
28	[631-AACK]	No Systems Documentation, No OpenManage DVD Kit	1
29	[343-BBFG]	PowerEdge R740 Shipping Material	1
30	[389-DTDL]	PowerEdge R740 CE,CCC,BIS Marking	1
31	[340-COVZ]	PowerEdge R740 Shipping EMEA1 (English/French/German/Spanish/Russian/Hebrew)	1
32	[709-BBIM]	Basic Next Business Day 36 Months, 36 Month(s)	1
33	[683-11870]	No Installation Service Selected (Contact Sales rep for more details)	1

C.34 Dell-EMC PowerEdge R740 Server Performance - [PER7400a]

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[210-AKXJ]	PowerEdge R740 Server	1
2	[321-BCSJ]	Chassis with up to 8 x 2.5" SAS/SATA Hard Drives for 1CPU Configuration	1
3	[461-AAEM]	Trusted Platform Module 2.0	1
4	[338-BVKJ]	Intel® Xeon® Gold 5218R 2.1G, 20C/40T, 10.4GT/s, 27.5 M Cache, Turbo, HT (125W) DDR4-2666	1
5	[374-BBBX]	No Additional Processor	1
6	[370-ADPF], [412-AAIQ]	1 Standard Heatsink for 125W or less CPU	1
7	[370-AAIP]	Performance Optimized	1
8	[370-AEPP]	2933MT/s RDIMMs	1
9	[370-AEQH]	32GB RDIMM, 2933MT/s, Dual Rank	3
10	[619-ABVR]	No Operating System	1
11	[605-BBFN]	No Media Required	1
12	[780-BCDS]	C7, Unconfigured RAID for HDDs or SSDs (Mixed Drive Types Allowed)	1
13	[405-AAQU]	PERC H730P RAID Controller, 2Gb NV Cache, Minicard	1
14	[400-AXSW]	960GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD, 1752 TBW	2
15	[750-AABF]	Power Saving Dell Active Power Controller	1
16	[384-BBQB]	4 Standard Fans for R740/740XD	1
17	[450-ADWP]	Single, Hot-plug Power Supply (1+0), 495W	1
18	[450-AADY]	Rack Power Cord 2M (C13/C14 10A)	1

19	[330-BBGZ]	Riser Config 1, 4 x8 slots	1
20	[385-BBKT]	iDRAC9,Enterprise	1
21	[540-BBBW]	Broadcom 5720 Quad Port 1GbE BASE-T, rNDC	1
22	[325-BCHU], [350-BBKG]	PowerEdge 2U Standard Bezel	1
23	[350-BBJV]	No Quick Sync	1
24	[770-BBBS]	No Rack Rails or Cable Management Arm	1
25	[379-BCSF]	iDRAC,factory Random Password	1
26	[379-BCQV]	iDRAC Group Manager, Enabled	1
27	[429-ABBJ]	No Internal Optical Drive	1
28	[631-AACK]	No Systems Documentation, No OpenManage DVD Kit	1
29	[343-BBFG]	PowerEdge R740 Shipping Material	1
30	[389-DTDL]	PowerEdge R740 CE,CCC,BIS Marking	1
31	[340-COVZ]	PowerEdge R740 Shipping EMEA1 (English/French/German/Spanish/Russian/Hebrew)	1
32	[709-BBIM]	Basic Next Business Day 36 Months, 36 Month(s)	1
33	[683-11870]	No Installation Service Selected (Contact Sales rep for more details)	1

C.35 Dell-EMC PowerEdge R440 Server Standard - [PER4402a]

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[210-ALZE]	PowerEdge R440 Server	1
2	[321-BCUV], [405-AAOM]	2.5" Chassis with up to 8 Hot Plug Hard Drives	1
3	[461-AADZ]	No Trusted Platform Module	1
4	[338-BVKD]	Intel® Xeon® Silver 4210R 2.4G, 10C/20T, 9.6GT/s, 13.75M Cache, Turbo, HT (100W) DDR4-2400	1
5	[374-BBBX]	No Additional Processor	1
6	[412-AAJT]	1 CPU standard	1
7	[370-AAIP]	Performance Optimized	1
8	[370-ADNU]	2667MT/s RDIMMs	1
9	[370-ADND]	16GB RDIMM, 2667MT/s, Dual Rank	2
10	[619-ABVR]	No Operating System	1
11	[605-BBFN]	No Media Required	1
12	[780-BCDS]	C7, Unconfigured RAID for HDDs or SSDs (Mixed Drive Types Allowed)	1
13	[405-AANP]	PERC H330 RAID Controller, Adapter, Low Profile	1
14	[400-ASGS]	600GB 10K RPM SAS 12Gbps 512n 2.5in Hot-plug Hard Drive	2
15	[384-BBBL]	Performance BIOS Setting	1
16	[450-AGOX]	Single, Hot-plug Power Supply (1+0),550W	1
17	[450-AADY]	Rack Power Cord 2M (C13/C14 10A)	1
18	[800-BBLC]	No PCIe Riser	1
19	[385-BBLC]	iDRAC9, Express	1
20	[542-BBCR]	Dual-Port 1GbE On-Board LOM	1

21	[350-BBBW], [350-BBKT]	No Bezel for x4 and x8 chassis	1
22	[350-BBKR]	No Quick Sync	1
23	[770-BBHJ]	No Rack Rails or Cable Management Arm	1
24	[379-BCSG]	iDRAC, Legacy Password	1
25	[379-BCQY]	iDRAC Group Manager, Disabled	1
26	[429-ABBF]	No Internal Optical Drive	1
27	[384-BCHR]	PowerEdge R440 MLK Motherboard V2	1
28	[293-10049]	Order Configuration Shipbox Label (Ship Date, Model, Processor Speed, HDD Size, RAM)	1
29	[293-10025]	Asset Tag - ProSupport (Website, barcode, Onboard MacAddress)	1
30	[631-AACK]	No Systems Documentation, No OpenManage DVD Kit	1
31	[340-BYXM]	PowerEdge R440 Shipping Material for 8 HDD chassis	1
32	[389-DSXY]	PowerEdge R440 CE, CCC, BIS Marking	1
33	[340-COSX]	PowerEdge R440 Shipping EMEA1 (English/French/German/Spanish/Russian/Hebrew) V2	1
34	[709-BBIL]	Basic Next Business Day 36 Months, 36 Month(s)	1
35	[683-11870]	No Installation Service Selected (Contact Sales rep for more details)	1

C.36 Dell-EMC PowerEdge R740XD2 Server Standard - [PER740XD2M]

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[210-ARCU]	PowerEdge R740XD2 Server	1
2	[321-BDXY]	Chassis Config 0, 24x3.5" HDD, Single PERC, for Riser Config 1 or 4	1
3	[461-AAEL]	Trusted Platform Module 1.2	1
4	[338-BRVH]	Intel® Xeon® Gold 5218 2.3G, 16C/32T, 10.4GT/s, 22M Cache, Turbo, HT (125W) DDR4-2666	1
5	[374-BBBX]	No Additional Processor	1
6	[370-ABXX], [412-AARI]	CPU 1 Thermal for FH Riser	1
7	[370-AAIP]	Performance Optimized	1
8	[370-ADNU]	2666MT/s RDIMMs	1
9	[370-ADND]	16GB RDIMM, 2666MT/s, Dual Rank	2
10	[611-BBBF]	No Operating System	1
11	[605-BBFN]	No Media Required	1
12	[780-BCDI]	C1, No RAID for HDDs/SSDs (Mixed Drive Types Allowed)	1
13	[405-AAND]	Dell PERC H730P RAID mezzanine, mini mono	1
14	[400-ASHH]	1TB 7.2K RPM SATA 6Gbps 512n 3.5in Hot-plug Hard Drive	12
15	[384-BBBL]	Performance BIOS Setting	1
16	[800-BBDM]	UEFI BIOS Boot Mode with GPT Partition	1
17	[450-ADWS]	Dual, Hot-plug, Redundant Power Supply (1+1), 750W	1

18	[450-AADY]	Rack Power Cord 2M (C13/C14 10A)	2
19	[800-BBLC]	Riser Config 0, No Riser, 2xLP, Single CPU, R740xd2	1
20	[385-BBKS]	iDrac9, Express	1
21	[542-BBBP]	On-Board Broadcom 5720 Dual Port 1Gb LOM	1
22	[325-BCHU]	PowerEdge 2U Standard Bezel	1
23	[770-BBBS]	No Rack Rails or Cable Management Arm	1
24	[379-BCRG]	iDRAC, Factory Generated Password	1
25	[379-BCQY]	iDRAC Group Manager, Disabled	1
26	[293-10049]	Order Configuration Shipbox Label (Ship Date, Model, Processor Speed, HDD Size, RAM)	1
27	[631-AACK]	No Systems Documentation, No OpenManage DVD Kit	1
28	[340-CKUB]	PowerEdge R740XD2 Shipping Material	1
29	[389-DSYZ]	PowerEdge R740xd2 CE,CCC,BIS Marking	1
30	[340-COTJ]	PowerEdge R740xd2 Shipping EMEA1 (English/French/German/Spanish/Russian/Hebrew)	1
31	[293-10025]	Asset Tag - ProSupport (Website, barcode, Onboard MacAddress)	1
32	[709-BBIK]	Basic Next Business Day 36 Months, 36 Month(s)	1
33	[683-11870]	No Installation Service Selected (Contact Sales rep for more details)	1

C.37 Dell-EMC PowerEdge R940XA - Full Configuration - [EMEA_R940XA_VI_VP]

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[210-AOQP]	PowerEdge R940xa	1
2	[321-BDTB]	32 x 2.5" Chassis, 28 SAS/SATA + 4 NVME/SAS/SATA, Double-wide GPU/FPGA capable, 4 CPU Configuration	1
3	[461-AAEM]	Trusted Platform Module 2.0	1
4	[338-BSIH]	2x Intel® Xeon® Platinum 8260 2.4G, 24C/48T, 10.4GT/s, 35.75M Cache, Turbo, HT (165W) DDR4-2933	1
5	[338-BSIH], [379-BDNR]	2x Intel® Xeon® Platinum 8260 2.4G, 24C/48T, 10.4GT/s, 35.75M Cache, Turbo, HT (165W) DDR4-2933	1
6	[370-AECN], [412-AANG], [412-AANH]	4P HS	1
7	[370-AAIP]	Performance Optimized	1
8	[370-AEPP]	2933MT/s RDIMMs	1
9	[370-AEQD]	64GB RDIMM, 2933MT/s, Dual Rank	24
10	[619-ABVR]	No Operating System	1
11	[605-BBFN]	No Media Required	1
12	[780-BCDI]	C1, No RAID for HDDs/SSDs (Mixed Drive Types Allowed)	1
13	[405-AANK]	HBA330 Controller, 12Gbps Adapter, Low Profile	1

14	[400-AXSW]	960GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD, 1752 TBW	1
15	[384-BBBH]	Power Saving BIOS Setting	1
16	[450-AJBU]	2+2 Power Supply, Redundant Configuration, 2400W, C19/C20 250V Power Cord Required for Use	1
17	[450-AEJI]	C19 to C20, PDU Style, 2.5M Power Cord, Qty 1	4
18	[330-BBKZ]	Riser Config3, 6 PCIe slots (4 x16 GRAPHICS Full height cards + 2 x16 LP), NVMe, 4 CPU	1
19	[329-BEOT]	PowerEdge R840/R940xa MLK Motherboard	1
20	[385-BBKS]	iDRAC9, Express	1
21	[540-BBBW]	Broadcom 5720 Quad Port 1GbE BASE-T, rNDC	1
22	[470-ACXH]	GPU Factory Installed cable kit	1
23	[490-BFZN]	NVIDIA Tesla V100S 32GB, 260W, Passive, Double Wide, Full Height GPU	4
24	[350-BBOU], [389-CHBB]	PowerEdge LCD Bezel	1
25	[350-BBPB]	No Quick Sync	1
26	[770-BCPU]	2U Combo Drop-In/Stab-In Rail	1
27	[379-BCSG]	iDRAC, Legacy Password	1
28	[379-BCQY]	iDRAC Group Manager, Disabled	1
29	[429-AAIQ]	No Internal Optical Drive for 32X Chassis	1
30	[631-AACK]	No Systems Documentation, No OpenManage DVD Kit	1
31	[343-BBJB]	PowerEdge R940 Shipping Material	1
32	[389-DSYK]	PowerEdge R940XA CE and BIS Marking, No CCC Marking	1
33	[343-BBPF]	PowerEdge R940XA Shipping, EMEA1 v2	1
34	[888-10066]	Not required	1
35	[709-BBIK]	Basic Next Business Day 36 Months, 36 Month(s)	1
36	[865-BBNF]	Prosupport Plus and 4Hr Mission Critical, 36 Month(s)	1
37	[683-19207], [683-19208]	ProDeploy Dell Server R Series 3U/4U	1

C.38 Dell-EMC PowerEdge R640 Server Performance - [PER6403M]

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[210-AKWU]	PowerEdge R640 Server	1
2	[321-BCQJ]	2.5" Chassis with up to 8 Hard Drives and 3PCIe slots, 1 or 2 CPU	1
3	[461-AAEM]	Trusted Platform Module 2.0	1
4	[338-BSDS]	Intel Xeon Gold 5215 2.5G, 10C/20T, 10.4GT/s, 13.75M Cache, Turbo, HT (85W) DDR4-2666	1
5	[338-BSDS], [379-BDCO]	Intel® Xeon® Gold 5215 2.5G, 10C/20T, 10.4GT/s, 13.75M Cache, Turbo, HT (85W) DDR4-2666	1
6	[370-ABWE], [412-AAIQ], [412-	2 Standard Heatsinks for 165W or less CPUs	1

	AAIQ]		
7	[370-AAIP]	Performance Optimized	1
8	[370-AEPP]	2933MT/s RDIMMs	1
9	[370-AEQF]	16GB RDIMM, 2933MT/s, Dual Rank	8
10	[619-ABVR]	No Operating System	1
11	[605-BBFN]	No Media Required	1
12	[780-BCDS]	C7, Unconfigured RAID for HDDs or SSDs (Mixed Drive Types Allowed)	1
13	[405-AANT]	PERC H730P RAID Controller, 2Gb NV Cache, Minicard	1
14	[400-AXTV]	480GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD, 876 TBW	1
15	[750-AABF]	Power Saving Dell Active Power Controller	1
16	[450-ADWS]	Dual, Hot-plug, Redundant Power Supply (1+1), 750W	1
17	[450-AADY]	Rack Power Cord 2M (C13/C14 10A)	2
18	[330-BBGY]	Riser Config 4, 2x16 LP	1
19	[385-BBKT]	iDRAC9,Enterprise	1
20	[540-BBUK]	Broadcom 57416 Dual Port 10GbE BASE-T & 5720 Dual Port 1GbE BASE-T, rNDC	1
21	[325-BCHH], [350-BBJS]	Standard Bezel for x4 and x8 chassis	1
22	[350-BBKB]	No Quick Sync	1
23	[770-BBHJ]	No Rack Rails or Cable Management Arm	1
24	[379-BCSF]	iDRAC,factory Random Password	1
25	[379-BCQV]	iDRAC Group Manager, Enabled	1
26	[429-ABBF]	No Internal Optical Drive	1
27	[384-BBQJ]	8 Standard Fans for R640	1
28	[293-10025]	Asset Tag - ProSupport (Website, barcode, Onboard MacAddress)	1
29	[293-10049]	Order Configuration Shipbox Label (Ship Date, Model, Processor Speed, HDD Size, RAM)	1
30	[486-38779]	PER6403M	1
31	[631-AACK]	No Systems Documentation, No OpenManage DVD Kit	1
32	[340-BYRV]	PowerEdge R640 Shipping Material for 8 HDD chassis	1
33	[389-DTIV]	PowerEdge R640 CE,CCC,BIS Marking	1
34	[340-COXT]	PowerEdge R640 Shipping EMEA1 (English/French/German/Spanish/Russian/Hebrew)	1
35	[709-BBIM]	Basic Next Business Day 36 Months, 36 Month(s)	1
36	[683-11870]	No Installation Service Selected (Contact Sales rep for more details)	1
37			

C.39 Dell-EMC PowerEdge FX2 - Full Configuration

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[210-ABUX], [321-BBFM]	PowerEdge FX2 Chassis for 4 Server Nodes	1
2	[321-BBFZ], [321-BBGH]	PowerEdge FX2S Chassis Configuration with Flexible IO (up to 8 PCIe Slots)	1

3	[340-AJPQ], [340-AJPS]	FX2 EMEA1 Ship Docs (English/French/German/Spanish/Russian/ Hebrew)	1
4	[540-BBQM]	Redundant Ethernet Switch Configuration	1
5	[450-ADTZ], [450-AENU]	PowerEdge FX2 Power Supply, Redundancy Alerting Only Enabled, 2 x 2000W	1
6	[450-ADHP]	Jumper Cord, 230V, 2.5M, C19/C20, EURO	2
7	[770-BBER]	FX2 ReadyRails Sliding Rails	1
8	[403-BBEQ], [634-BNJG]	CMC Enterprise for FX2, 2GB	1
9	[631-AACK]	No System Documentation, No OpenManage DVD Kit	1
10	[409-BBEW]	Serial I/O Management Cable, for Ethernet Blade Switches	1
11	[709-BBIL]	Basic Next Business Day 36 Months, 36 Month(s)	1
12	[865-BBNF]	Prosupport Plus and 4Hr Mission Critical, 36 Month(s)	1
13	[683-19235], [683-21926]	ProDeploy Dell Server FX2 Converged	1

C.40 Dell-EMC PowerEdge FC640 - Full Configuration - [EMEA_FC640_VI_VP]

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[210-ALYN]	PowerEdge FC640 Server Node	1
2	[461-AADZ]	No Trusted Platform Module	1
3	[321-BEVI]	Chassis with up to 2 SAS or SATA Hard Drives (PERC required) MLK	1
4	[340-BYZB], [340-BYZD], [750- AADI]	Shipping Material, Integrated in FX2, PowerEdge FC640, EMEA1 Systems Docs,V2	1
5	[340-BYYU]	PowerEdge FC640 Regulatory Label, CE Marking	1
6	[338-BRVN]	Intel® Xeon® Gold 6230 2.1G, 20C/40T, 10.4GT/s, 27.5M Cache, Turbo, HT (125W) DDR4-2933	1
7	[338-BRVN], [379-BDCO]	Intel® Xeon® Gold 6230 2.1G, 20C/40T, 10.4GT/s, 27.5M Cache, Turbo, HT (125W) DDR4-2933	1
8	[412-AAJM]	Heatsink for CPU2	1
9	[370-AEPP]	2933MT/s RDIMMs	1
10	[370-AAIP]	Performance Optimized	1
11	[370-AEQH]	32GB RDIMM, 2933MT/s, Dual Rank	12
12	[619-ABVR]	No Operating System	1
13	[605-BBFN]	No Media Required	1
14	[370-ADRU]	IDSDM/BOSS Blank	1
15	[780-BCDN]	C3, RAID 1 for 2 HDDs or SSDs (Matching Type/Speed/Capacity)	1
16	[405-AAET]	H730P Controller	1
17	[400-AXRR]	960GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive	2
18	[492-BCFD]	PowerEdge FC PCIE Mezzanine Adapter for Enablement of FX2S	1
19	[542-BBBN]	QLogic 57810-k Dual port 10Gb KR CNA Blade Network Daughter Card	1

20	[385-BBKT], [528-BIYY]	iDRAC9 Enterprise with OpenManage Enterprise Advanced	1
21	[384-BBBL]	Performance BIOS Setting	1
22	[293-10049]	Order Configuration Shipbox Label (Ship Date, Model, Processor Speed, HDD Size, RAM)	1
23	[888-10066]	Not required	1
24	[450-AJPT]	Non-Redundant Power Supply on Chassis (X+0 PSU Configuration)	1
25	[631-AACK]	No Systems Documentation, No OpenManage DVD Kit	1
26	[340-BTFN]	14G OpenManage placemat	1
27	[800-BBDM]	UEFI BIOS Setting	1
28	[379-BCQY]	iDRAC Group Manager, Disabled	1
29	[709-BBIM]	Basic Next Business Day 36 Months, 36 Month(s)	1
30	[865-BBMY]	ProSupport and Next Business Day Onsite Service, 36 Month(s)	1
31	[683-11870]	No Installation Service Selected (Contact Sales rep for more details)	1

C.41 Dell-EMC Accessories

#	Item	Specification	Quantity of sub-elements needed for full Configuration
1	[A7545497]	Dell 42U Rack Enclosure	1
2	[A7485894]	Dell Digital 32 Port KVM Switch	1
3	[A7485906]	Dell KMM Intl Version	1
4	[A9088192]	Dell Smart-UPS SRT 3000VA (2700 Watt) RM 2U 230V On Line, 3Yr Warranty Inc Battery, NMC not included	1
5	[A8515518]	Dell Smart-UPS SRT 5000VA (4500 Watt) RM 3U 230V On Line, 3Yr Warranty Inc Battery, NMC is included	1
6	[A8515711]	Dell Smart-UPS SRT 8000VA (8000 Watt) RM 6U 230V On Line, 3Yr Warranty Inc Battery, NMC is included	1