



Acquisition Directorate

NCI Agency
Boulevard Leopold III
1110 Brussels, Belgium
Telephone: +31 (0) 70 374 3174

NCIA/ACQ/2020/7126
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 4**

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 4.
2. The effective date of this IFB Amendment 4 is: 04 October 2020.

For the Director of Acquisition:

A handwritten signature in black ink, appearing to be 'Ijeoma Ike-Meertens', written over a horizontal line.

Ijeoma Ike-Meertens
Principal Contracting Officer (Acting)



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

www.ncia.nato.int



Distribution List

NATO Delegations (Attn: Representative to the Budget Committee)

Albania
Belgium
Bulgaria
Canada
Croatia
Czech Republic
Denmark
Estonia
France
Germany
Greece
Hungary
Iceland
Italy
Latvia
Lithuania
Luxembourg
Montenegro
The Netherlands
North Macedonia
Norway
Poland
Portugal
Romania
Slovakia
Slovenia
Spain
Turkey
United Kingdom
United States

NATO HQ

Budget Committee Secretariat

NCIA/ACQ/2020/7122
04 October 2020

To : All Nominated Prospective Bidders

Subject : **AMENDMENT 4 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
I. IFB Amendment 3, NCIA/ACQ/2020/7077, dated 21 September 2020

Dear Madam/Sir,

1. The purpose of this Amendment 4 is to publish the responses to the Clarification Requests (CRs) (CRs T91-T93 – Attachment 4).
2. 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 Sheets
 - b. Book II: Statement of Work Annex A – Schedule A
 - c. Book II: Statement of Work Annex A – Schedule B
3. The closing time for submission of bids in response to this invitation for bid is **12:00 hours (Brussels Time) on Wednesday, 21 October 2020.**
4. With the exception of the revisions mentioned above, all other IFB documents remain unchanged from the date per Reference I.
5. The overall security classification of this IFB is «NATO UNCLASSIFIED».
6. 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.



7. This Invitation for Bid does not constitute either a financial or contractual commitment at this stage.
8. 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.
9. Please send all questions concerning this IFB to the undersigned at:
IFB-CO-115125-e-FIT@ncia.nato.int

For the Director of Acquisition

A handwritten signature in black ink, appearing to be 'Ijeoma Ike-Meertens', written over a horizontal line.

Ijeoma Ike-Meertens
Principal Contracting Officer (Acting)

Enclosure:

Attachment 1: Clarification Requests Answers_Amendment 4

Attachment 3: Book I: Bidding Sheets_Amendment 4

Attachment 6: Book II: Statement of Work Annex A – Schedule A_Amendment 4

Attachment 7: Book II: Statement of Work Annex A – Schedule B_Amendment 4

IFB-CO-115125-e-FIT					
Technical Clarification Requests (CRs)					
Serial Nr	IFB Book	IFB Section Ref.	Question	Answer	Amendment 4 to IFB (if any)
T.91	Schedule B_Storage Equipment	B.17	N/A	An update has been made to Items B.17, B.18, and B.20 in Schedule B.	Update in Specification of B.17 under Schedule B.
T.92	Schedule B_Storage Equipment	B.4.3	B.4.3 NetApp Spare parts, services and accessories # Part Number Specification Quantity of sub-elements needed for full Configuration Quantities in blank Please could you clarify this point?	The Quantity of sub-elements needed for full Configuration for each item under B.4.3 is 1.	The Quantity of sub-elements needed for full Configuration for each item under B.4.3 is updated to state 1.
T.93	N/A	CR T.52	In relation to bidder question T.52 and the answer of the Agency regarding to grey colour for Dell Notebooks, are we right in assuming that NATO will accept grey appearance for: A.5 TEMPEST SDIP 27 Level A Thin Clients and A.2.1 TEMPEST SDIP 27 Level A Tower Workstation, as well?	Yes, we will accept grey color for A.5 TEMPEST SDIP 27 Level A Thin Clients and A.2.1 TEMPEST SDIP 27 Level A Tower Workstation	Items A.2.1 and A.5 of Schedule A have been amended to include grey colour as an acceptable colour.

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 discretion, 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.

Book II - Part I - Schedule of Supplies and Services										Notional Quantities for Evaluation Purposes Only										
SCHEDULE A - STANDARD END-USER EQUIPMENT																				
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)	Quantity of Orders					Quantity Per Order					Total Quantity	Evaluated Price	
								QTY 1-49	QTY 50-99	QTY 100-199	QTY 200-499	QTY 500+	QTY 1-49	QTY 50-99	QTY 100-199	QTY 200-499	QTY 500+			
Currency																				
A.1	Laptop/Notebook							Price Band	QTY 1-49	QTY 50-99	QTY 100-199	QTY 200-499	QTY 500+	QTY 1-49	QTY 50-99	QTY 100-199	QTY 200-499	QTY 500+		
A.1.1	Business laptop - COTS	Dell Latitude 7410 CTO						A.1.1	20	1	2	3	1	12	70	120	350	900	2,500	-
A.1.1.1	Business laptop - (Mobile Data Transmission) COTS	Dell Latitude 7410 CTO (Mobile Data Transmission)						A.1.1.1	1	-	-	-	-	10	-	-	-	-	10	-
A.1.2	Rugged Notebook	Dell Latitude 7424 Rugged Extreme						A.1.2	1	-	-	-	-	10	-	-	-	-	10	-
A.1.2.1	Rugged Notebook (Mobile Data Transmission)	Dell Latitude 7424 Rugged Extreme (Mobile Data Transmission)						A.1.2.1	1	-	-	-	-	10	-	-	-	-	10	-
A.1.3	Business Laptop - i7	Dell Latitude 7410 CTO w Intel Core i7 CPU						A.1.3	2	-	-	-	-	6	-	-	-	-	12	-
A.1.4	Business Laptop - i7, 16GB RAM	Dell Latitude 7410 CTO w Intel Core i7 CPU with 16GB RAM						A.1.4	1	-	-	-	-	10	-	-	-	-	10	-
A.1.5	Business Laptop - Alienware	Alienware Area 51 Laptop Intel® Core™ i9-990K, Windows 10 Pro, 64bit English						A.1.5	1	-	-	-	-	7	-	-	-	-	7	-
A.2	Workstation							Price Band	QTY 1-24	QTY 25-49	QTY 50-74	QTY 75-99	QTY 100+	QTY 1-24	QTY 25-49	QTY 50-74	QTY 75-99	QTY 100+		
A.2.1	Tower Workstation - COTS	Dell Precision 3640 Form Factor: Tower						A.2.1	2	-	-	-	-	4	-	-	-	-	8	-
A.2.2	Tower Workstation - COTS 100Base-FX	Dell Precision 3640 Form Factor: Tower						A.2.2	3	1	-	-	-	25	50	-	-	-	125	-
	Tower Workstation - Level C																			
A.2.1.a	Tower Workstation - Level C 100Base-SX	Dell Precision 3640 Form Factor: Tower						A.2.1	12	2	2	3	1	10	25	50	75	150	645	-
A.2.2.a	Tower Workstation - Level C 100Base-FX	Dell Precision 3640 Form Factor: Tower						A.2.2	5	1	-	-	-	13	50	-	-	-	115	-
	Tower Workstation - Level B																			
A.2.1.b	Tower Workstation - Level B 100Base-SX	Dell Precision 3640 Form Factor: Tower						A.2.1	1	-	-	-	-	10	-	-	-	-	10	-
A.2.2.b	Tower Workstation - Level B 100Base-FX	Dell Precision 3640 Form Factor: Tower						A.2.2	1	-	-	-	-	10	-	-	-	-	10	-
	Tower Workstation - Level A																			
A.2.1.c	Tower Workstation - Level A 100Base-SX	Dell Precision 3640 Form Factor: Tower						A.2.1	1	-	-	-	-	10	-	-	-	-	10	-
A.2.2.c	Tower Workstation - Level A 100Base-FX	Dell Precision 3640 Form Factor: Tower						A.2.2	1	-	-	-	-	10	-	-	-	-	10	-
A.3	Desktop PC							Price Band	QTY 1-24	QTY 25-49	QTY 50-74	QTY 75-99	QTY 100+	QTY 1-24	QTY 25-49	QTY 50-74	QTY 75-99	QTY 100+		
A.3.1	Desktop PC - 1000 Base SX	Dell Optiplex 5080, Form Factor: Small, incl. WIN 10 OEM						A.3.1	2	-	-	-	-	5	-	-	-	-	10	-
A.3.1.a	Desktop PC - 1000 Base SX with optional drive cage	Dell Optiplex 5080, Form Factor: Small, incl. WIN 10 OEM with optional drive cage						A.3.1	2	-	-	-	-	10	-	-	-	-	20	-
A.3.1.b	Desktop PC - 100 Base FX	Dell Optiplex 5080, Form Factor: Small, incl. WIN 10 OEM						A.3.1	2	2	2	2	-	15	25	50	75	-	330	-
A.3.1.c	Desktop PC - 100 Base FX with optional drive cage	Dell Optiplex 5080, Form Factor: Small, incl. WIN 10 OEM with optional drive cage						A.3.1	1	-	-	-	-	10	-	-	-	-	10	-
A.3.2	Desktop PC - 100 Base FX with SC connectivity	Dell Optiplex 5080, Form Factor: Small, incl. WIN 10 OEM (100 Base-FX, SC connector)						A.3.2	1	-	-	-	-	10	-	-	-	-	10	-
A.4	Hybrids/Convertibles/Tablets							Price Band	QTY 1-24	QTY 25-49	QTY 50-74	QTY 75-99	QTY 100+	QTY 1-24	QTY 25-49	QTY 50-74	QTY 75-99	QTY 100+		
A.4.1	Tablet / 2-in-1 - COTS	Dell Latitude 7210 2-in-1						A.4.1	10	1	1	1	1	20	25	50	75	155	505	-
A.4.1.1	Tablet / 2-in-1 - Mobile Data Transmission	Dell Latitude 7210 2-in-1 (Mobile Data Transmission)						A.4.1.1	2	-	-	-	-	20	-	-	-	-	40	-
A.4.2	Rugged Tablet	Dell Latitude 7220 Rugged Extreme						A.4.2	1	-	-	-	-	10	-	-	-	-	10	-
A.4.2.1	Rugged Tablet - Mobile Data Transmission	Dell Latitude 7220 Rugged Extreme (Mobile Data Transmission)						A.4.2.1	1	1	-	-	-	20	45	-	-	-	65	-
A.5	Thin Client							Price Band	QTY 1-24	QTY 25-49	QTY 50-74	QTY 75-99	QTY 100+	QTY 1-24	QTY 25-49	QTY 50-74	QTY 75-99	QTY 100+		
	Thin Client - COTS																			
A.5.1	Thin Client - COTS (Win10IoT) 1000Base-SX	Dell Wyse 5070 Win10IoT						A.5.1	2	2	2	2	2	20	40	70	80	250	920	-
A.5.1.a	Thin Client - COTS (Win10IoT) 100Base-FX	Dell Wyse 5070 Win10IoT						A.5.1	1	-	-	-	-	10	-	-	-	-	10	-
	Thin Client - Level C																			
A.5.1.b	Thin Client - Level C (Win10IoT) 1000Base-SX	Dell Wyse 5070 Win10IoT						A.5.1	8	3	3	-	-	20	40	70	-	-	490	-
A.5.1.c	Thin Client - Level C (Win10IoT) 100Base-FX	Dell Wyse 5070 Win10IoT						A.5.1	1	1	-	-	-	20	40	-	-	-	60	-
	Thin Client - Level B																			
A.5.1.d	Thin Client - Level B (Win10IoT) 1000Base-SX	Dell Wyse 5070 Win10IoT						A.5.1	2	-	-	-	-	5	-	-	-	-	10	-
A.5.1.e	Thin Client - Level B (Win10IoT) 100Base-FX	Dell Wyse 5070 Win10IoT						A.5.1	1	-	-	-	-	10	-	-	-	-	10	-
	Thin Client - Level A																			
A.5.1.f	Thin Client - Level A (Win10IoT) 1000Base-SX	Dell Wyse 5070 Win10IoT						A.5.1	3	1	-	-	-	15	35	-	-	-	80	-
A.5.1.g	Thin Client - Level A (Win10IoT) 100Base-FX	Dell Wyse 5070 Win10IoT						A.5.1	1	-	-	-	-	10	-	-	-	-	10	-
A.6	Monitors/Displays							Price Band	QTY 1-24	QTY 25-49	QTY 50-74	QTY 75-99	QTY 100+	QTY 1-24	QTY 25-49	QTY 50-74	QTY 75-99	QTY 100+		
A.6.1	Touch Screen Desktop Monitor - COTS	Touch Screen Desktop Monitor Dell P2418HT						A.6.1	1	-	-	-	-	10	-	-	-	-	10	-
A.6.1.1	Touch Screen Desktop Monitor - Tempest Level C Certified	Touch Screen Desktop Monitor Dell P2418HT						A.6.1.1	1	-	-	-	-	10	-	-	-	-	10	-
	Desktop Monitor							Price Band	QTY 1-49	QTY 50-99	QTY 100-199	QTY 200-499	QTY 500+	QTY 1-49	QTY 50-99	QTY 100-199	QTY 200-499	QTY 500+		
A.6.2	Desktop Monitor - COTS	24" Dell P2419H						A.6.2	4	4	4	3	-	25	75	150	250	-	1,750	-
A.6.2.1	Desktop Monitor - Level C	Tempest Level C Certified						A.6.2.1	5	10	9	9	2	25	75	150	300	1,200	7,325	-
A.6.2.2	Desktop Monitor - Level B	Tempest Level B Certified						A.6.2.2	2	1	-	-	-	10	50	-	-	-	70	-
A.6.2.3	Desktop Monitor - Level A	Tempest Level A Certified						A.6.2.3	4	-	-	-	-	20	-	-	-	-	80	-
A.6.3	Desktop Monitor 27" - COTS	Dell 27 Monitor: P2719H						A.6.3	1	-	-	-	-	10	-	-	-	-	10	-
A.6.4	Desktop Monitor 27" 4K - COTS	Dell 27 Monitor 4K - U2720Q						A.6.4	1	-	-	-	-	10	-	-	-	-	10	-
A.6.5	Desktop Monitor Ultrawide - COTS	Dell UltraSharp 34 Curved Ultrawide Monitor: U3415W						A.6.5	1	-	-	-	-	10	-	-	-	-	10	-

Book II - Part I - Schedule of Supplies and Services										Notional Quantities for Evaluation Purposes Only												
SCHEDULE B - STORAGE 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					Quantity of Orders					Quantity Per Order					Total Quantity	Evaluated Price
						Currency	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		
										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+		
SAN (Storage Area Network) Equipment																						
B.1 Entry-Midrange SAN (Nimble)																						
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.2.1	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.3.1	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.4.1	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						1	-	-	-	-	1	-	-	-	-	1	-
B.5 High-End Storage -Dell-EMC PowerStore NVMe SSD																						
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.6.1	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.7.1	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.8.1	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.9.1	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 DP5800 - 96TB				B.9.6						1	1	-	-	-	2	8	-	-	-	10	-
B.9.7	Dell-EMC IDPA PowerProtect DP5800 - 192TB				B.9.7						1	1	-	-	-	2	8	-	-	-	10	-
B.9.8	Dell-EMC IDPA PowerProtect DP5800 - 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	-	-	-	10	-
B.9.10	Dell-EMC IDPA PowerProtect DP8300 - 720TB				B.9.10						1	1	-	-	-	2	8	-	-	-	10	-
B.9.11	Dell-EMC IDPA PowerProtect DP8800 - 624TB				B.9.11						1	1	-	-	-	2	8	-	-	-	10	-
B.9.12	Dell-EMC IDPA PowerProtect DP8800 - 1008TB				B.9.12						1	1	-	-	-	2	8	-	-	-	10	-

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)	
							Currency						
							Price Band	QTY 1-5	QTY 6-19	QTY 20-49	QTY 50-99	QTY 100+	
B.4.3	NetApp Spare parts, services and accessories												
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.4.3.159	AFF-C190A-PACK-107	AFF C190,HA,24X960GB,Flash Bundle,NVE RJ45					B.4.3.159							
B.4.3.160	AFF-C190A-PACK-108	AFF C190,HA,8X960GB,Flash Bundle,Non-NVE UTA					B.4.3.160							
B.4.3.161	AFF-C190A-PACK-109	AFF C190,HA,12X960GB,Flash Bundle,Non-NVE UTA					B.4.3.161							
B.4.3.162	AFF-C190A-PACK-110	AFF C190,HA,18X960GB,Flash Bundle,Non-NVE UTA					B.4.3.162							
B.4.3.163	AFF-C190A-PACK-111	AFF C190,HA,24X960GB,Flash Bundle,Non-NVE UTA					B.4.3.163							
D	DISCOUNT													
	Task Order Volume Discount					Task Order Discount Band in Euros	From	-	50,001	100,001	500,001	1,000,001		
							To	50,000	100,000	500,000	1,000,000	Above		
D.1	Volume discount to be applied to each task order as part of this contract.													
S	SERVICES													
	Engineering Services						Daily Rate	-						
S.1	Installation & Commissioning Professional Services (On-Site)*					3.10								
	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.													
***	<p>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.</p> <p>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.</p> <p>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.</p>													
****	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 B Instructions:	<ul style="list-style-type: none"> 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 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
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

D DISCOUNT		Task Order Discount Band in Euros	From To	-	50,001	100,001	500,001	1,000,001
D.1	Volume discount to be applied to each task order as part of this contract.			50,000	100,000	500,000	1,000,000	Above
S SERVICES		Engineering Services	Daily Rate					
S.1	Installation & Commissioning Professional Services (On-Site)*		3.10					
Integrated Logistics Support		Shipment Cost To:	No. America	Turkey	Europe			
S.2	PH&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				

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				
PH&T to NATO/ Customer Sites**			-	-	-				
Warranty Extensions									Warranty Extension
Warranty Extension*** (from 1 year to 3-years)									-
Total Evaluated 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 PH&T, as that is separately provided in row 115.

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**

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: <ul style="list-style-type: none"> • 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 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® Dual Band Wireless AC 8265 (802.11ac) 2x2
Additional Features	Integrated Webcam Integrated Microphone Array (dual microphone with noise cancellation) 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: <ul style="list-style-type: none"> • 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	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) 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	1TB (2x 512GB PCIe M.2 SSD) RAID 0 [Boot] + 1TB 7200 RPM Hard drive
GPU	NVIDIA 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 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 i5-10500 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	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 or grey 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 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 i5-10500 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

Item	Minimum Requirements
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	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 5080 SFF

Item	Minimum Requirements
Form Factor	SFF
Microsoft Licences	MS Windows 10 Pro OEM 64bit no-media
Performance	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	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 5080 SFF (100 Base-FX, SC)

Item	Minimum Requirements
Form Factor	SFF
Microsoft Licences	MS Windows 10 Pro OEM 64bit no-media
Performance	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 Displaypor
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	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 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 i5-10310U 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 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: <ul style="list-style-type: none"> • 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 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 i7-8665U 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 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 or grey 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 1 x 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, 1xHDMIPorts 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 62,5/125 μ
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 50/125 μ
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.8.39 1000 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 4**

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.....	31
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 EMC S5232F-ON Switch, 32x 100GbE QSFP28 ports, IO to PSU air, 2x PSU, OS10 66	
B.18 Dell EMC Switch S4148F-ON, 1U, 48x10GbE SFP+, 4xQSFP28, 2xQSFP+, IO to PSU, 2 PSU, OS10	67
B.19 Dell Networking Cable, QSFP+, 40GbE Active Optical (no optics required), 3 Meters, Customer Kit.....	67
B.20 Dell EMC Switch S4148F-ON, 1U, 48x10GbE SFP+, 4xQSFP28, 2xQSFP+, IO to PSU, 2 PSU, OS10	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-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.2.3 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-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	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-AEQZ]	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 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.2.9 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-AEQZ]	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-AEQZ]	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	1

		C13/C14 Power Cords	
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-AEQZ]	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	2

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

15	DS212C-07-16-12B-QS-N	Disk Shelf,12G,12x16TB,7.2K,-QS	1
16	DS212C-07-16-12B-SK	Disk Shelf,12G,12x16TB,7.2K,-SK	1
17	DS460C-07-16.0-30B-2P-C	Disk Shelf,12G,30x16TB,7.2K,2P,-C	1
18	DS460C-07-16.0-30B-2P-CQ	Disk Shelf,12G,30x16TB,7.2K,2P,CQ	1
19	DS460C-07-16.0-30B-N-C	Disk Shelf,12G,30x16TB,7.2K,-C	1
20	DS460C-07-16.0-30B-N-CQ	Disk Shelf,12G,30x16TB,7.2K,CQ	1
21	DS460C-07-16.0-30B-QS	Disk Shelf,12G,30x16TB,7.2K,-QS	1
22	DS460C-07-16.0-30B-QS-N	Disk Shelf,12G,30x16TB,7.2K,-QS	1
23	DS460C-07-16.0-30B-SK	Disk Shelf,12G,30x16TB,7.2K,-SK	1
24	DS460C-07-16.0-60B-2P-C	Disk Shelf,12G,60x16TB,7.2K,2P,-C	1
25	DS460C-07-16.0-60B-2P-CQ	Disk Shelf,12G,60x16TB,7.2K,2P,CQ	1
26	DS460C-07-16.0-60B-N-C	Disk Shelf,12G,60x16TB,7.2K,-C	1
27	DS460C-07-16.0-60B-N-CQ	Disk Shelf,12G,60x16TB,7.2K,CQ	1
28	DS460C-07-16.0-60B-QS	Disk Shelf,12G,60x16TB,7.2K,-QS	1
29	DS460C-07-16.0-60B-QS-N	Disk Shelf,12G,60x16TB,7.2K,-QS	1
30	DS460C-07-16.0-60B-SK	Disk Shelf,12G,60x16TB,7.2K,-SK	1
31	E-X4129C	SSD,15.3TB,12Gb,Non-FDE,DE224C	1
32	E-X4129C-0E-C	SSD,15.3TB,12Gb,Non-FDE,DE224C,0E,-C	1
33	E-X4129C-12-QS	SSD,12x15.3TB,12Gb,Non-FDE,DE224C,QS	1
34	E-X4129C-AD-C	SSD,15.3TB,12Gb,Non-FDE,DE224C,Add,-C	1
35	E-X4133B	SSD,7.6TB,12Gb,Non-FDE,DE224C	1
36	E-X4133B-0E-C	SSD,7.6TB,12Gb,Non-FDE,DE224C,0E,-C	1
37	E-X4133B-12-QS	SSD,12x7.6TB,12Gb,Non-FDE,DE224C,QS	1
38	E-X4133B-AD-C	SSD,7.6TB,12Gb,Non-FDE,DE224C,Add,-C	1
39	E-X4142B	SSD,15.3TB,12Gb,FDE,DE224C	1
40	E-X4142B-0E-C	SSD,15.3TB,12Gb,FDE,DE224C,0E,-C	1
41	E-X4142B-12-QS	SSD,12x15.3TB,12Gb,FDE,DE224C,QS	1
42	E-X4142B-AD-C	SSD,15.3TB,12Gb,FDE,DE224C,Add,-C	1
43	E-X4144A	DSK DRV,16TB,7.2k,12Gb,Non-FDE,DE460C	1
44	E-X4144A-10-QS	DSK DRV,10x16TB,7.2k,12Gb,Non-FDE,DE460C,QS	1
45	E-X4144A-AD-C	DSK DRV,16TB,7.2k,12Gb,Non-FDE,DE460C,Add,-C	1
46	E-X4144A-C	DSK DRV,16TB,7.2k,12Gb,Non-FDE,DE460C,-C	1
47	E-X4145A	DSK DRV,16TB,7.2k,12Gb,Non-FDE,DE212C	1
48	E-X4145A-12-QS	DSK DRV,12x16TB,7.2k,12Gb,Non-FDE,DE212C,QS	1
49	E-X4145A-AD-C	DSK DRV,16TB,7.2k,12Gb,Non-FDE,DE212C,Add,-C	1
50	E-X4145A-C	DSK DRV,16TB,7.2k,12Gb,Non-FDE,DE212C,-C	1
51	FAS2720-115-C	FAS2720,12x16TB,7.2K,-C	1
52	FAS2720-116-C	FAS2720,4x960GB SSD,8x16TB,Mixed,-C	1
53	FAS2720-117-C	FAS2720,4x3.8TB SSD,8x16TB,Mixed,-C	1
54	H600-NIC-1/10GBE-I	NIC,2-Port,1/10GbE,RJ45,H600C,Intel	1
55	H600-NIC-10/25GBE-M	NIC,2-Port,10/25GbE,SFP28,H600C,Mellanox	1
56	FAS2720A-EXP-100	FAS2720,HA,12X4TB,Base Bundle,NVE RJ45	1
57	FAS2720A-EXP-101	FAS2720,HA,12X4TB,Premium Bundle,NVE RJ45	1
58	FAS2720A-EXP-104	FAS2720,HA,12X4TB,Base Bundle,NVE CNA	1
59	FAS2720A-EXP-105	FAS2720,HA,12X4TB,Premium Bundle,NVE CNA	1
60	SUBS-MAXRECVRY-VCPU-12MO	Subscription,MAXRecovery,vCPU,12M	1
61	SUBS-MAXRECVRY-VCPU-36MO	Subscription,MAXRecovery,vCPU,36M	1
62	AFF-A220-100-C	AFF A220,12X960GB SSD,-C	1
63	AFF-A220-101-C	AFF A220,24X960GB SSD,-C	1
64	AFF-A220-102-C	AFF A220,12X3.8TB SSD,-C	1
65	AFF-A220-103-C	AFF A220,24X3.8TB SSD,-C	1
66	AFF-A220-104-C	AFF A220,12X3.8TB NSE SSD,-C	1
67	AFF-A220-105-C	AFF A220,24X3.8TB NSE SSD,-C	1
68	AFF-A220-106-C	AFF A220,12X7.6TB SSD,-C	1
69	AFF-A220-107-C	AFF A220,24X7.6TB SSD,-C	1
70	AFF-A220-108-C	AFF A220,12X15.3TB SSD,-C	1
71	AFF-A220-109-C	AFF A220,24X15.3TB SSD,-C	1
72	AFF-A220-111-C	AFF A220,12X960GB SSD,NSE,-C	1
73	AFF-A220-112-C	AFF A220,24X960GB SSD,NSE,-C	1
74	AFF-A220-113-C	AFF A220,12X30.6TB SSD,-C	1
75	AFF-A220-114-C	AFF A220,24X30.6TB SSD,-C	1
76	AFF-A220A-001	AFF A220 HA System, BASE Bundle,CNA	1
77	AFF-A220A-001-SC	AFF A220A Base Bundle	1
78	AFF-A220A-002	AFF A220 HA System,Flash Bundle,CNA	1

79	AFF-A220A-002-SC	AFF A220A Flash Bundle	1
80	AFF-A220A-003	AFF A220 HA System, BASE Bundle,RJ45	1
81	AFF-A220A-004	AFF A220 HA System,Flash Bundle,RJ45	1
82	AFF-A220A-005	AFF A220 HA System,All SAN Array Bundle,CNA	1
83	AFF-A220A-EXP-100	AFF A220,HA,12X960GB SSD,Base Bundle,NVE	1
84	AFF-A220A-EXP-101	AFF A220,HA,12X960GB SSD,Flash Bundle,NVE	1
85	AFF-A220A-EXP-102	AFF A220,HA,24X960GB SSD,Base Bundle,NVE	1
86	AFF-A220A-EXP-103	AFF A220,HA,24X960GB SSD,Flash Bundle,NVE	1
87	AFF-A220A-EXP-104	AFF A220,HA,12X960GB SSD,Base Bundle,Non-NVE	1
88	AFF-A220A-EXP-105	AFF A220,HA,12X960GB SSD,Flash Bundle,Non-NVE	1
89	AFF-A220A-EXP-106	AFF A220,HA,24X960GB SSD,Base Bundle,Non-NVE	1
90	AFF-A220A-EXP-107	AFF A220,HA,24X960GB SSD,Flash Bundle,Non-NVE	1
91	AFF-A220A-EXP-108	AFF A220,HA,12X3.8TB SSD,Base Bundle,NVE	1
92	AFF-A220A-EXP-109	AFF A220,HA,12X3.8TB SSD,Flash Bundle,NVE	1
93	AFF-A220A-EXP-110	AFF A220,HA,24X3.8TB SSD,Base Bundle,NVE	1
94	AFF-A220A-EXP-111	AFF A220,HA,24X3.8TB SSD,Flash Bundle,NVE	1
95	AFF-A220A-PACK-114	AFF-A220,HA,12X3.8TB SSD,Flash Bundle,Non-NVE	1
96	AFF-A220A-PACK-115	AFF-A220,HA,24X3.8TB SSD,Flash Bundle,Non-NVE	1
97	AFF-A220A-UG-001	AFF A220 HA System,UG,Flash Bundle,CNA	1
98	AFF-A220A-UG-002	AFF A220 HA System,UG,Flash Bundle,RJ45	1
99	AFF-A300A-001	AFF A300 HA System,FlashBundle	1
100	AFF-A300A-001-SC	AFF A300A Premium Bundle	1
101	AFF-A300A-002	AFF A300A Base Bundle	1
102	AFF-A320A-001	AFF A320 HA System,BaseBundle	1
103	AFF-A320A-002	AFF A320 HA System,FlashBundle	1
104	AFF-A400A-003	AFF-A400 HA System,Ethernet Bundle	1
105	AFF-A400A-004	AFF-A400 HA System,FC Bundle	1
106	AFF-A400A-005	AFF-A400 HA System,ASA,Ethernet Bundle	1
107	AFF-A400A-006	AFF-A400 HA System,ASA,FC Bundle	1
108	AFF-A700A-001	AFF A700 HA System,Base Bundle	1
109	AFF-A700A-002	AFF A700 HA System,FlashBundle	1
110	AFF-A700A-003	AFF A700 HA System,All SAN Array Bundle	1
111	AFF-A700A-200-C	AFF A700,SA,CTL,Encl,AC PS,40G,SAS,-C	1
112	AFF-A700A-201-C	AFF A700,HA,CTL,Encl,AC PS,40G,SAS,-C	1
113	AFF-A700S-001	AFF A700s System,Base Bundle	1
114	AFF-A700S-002	AFF A700s System,FlashBundle	1
115	AFF-A700S-100-C	AFF A700s,HA,24x960GB,40GbE,SAS,-C	1
116	AFF-A700S-101-C	AFF A700s,HA,24x960GB,40GbE,32FC,SAS,-C	1
117	AFF-A700S-102-C	AFF A700s,HA,12x3.8TB,40GbE,SAS,-C	1
118	AFF-A700S-103-C	AFF A700s,HA,12x3.8TB,40GbE,32FC,SAS,-C	1
119	AFF-A700S-104-C	AFF A700s,HA,24x3.8TB,40GbE,SAS,-C	1
120	AFF-A700S-105-C	AFF A700s,HA,24x3.8TB,40GbE,32FC,SAS,-C	1
121	AFF-A700S-106-C	AFF A700s,HA,12x3.8TB,NSE,40GbE,SAS,-C	1
122	AFF-A700S-107-C	AFF A700s,HA,12x3.8TB,NSE,40GbE,32FC,SAS,-C	1
123	AFF-A700S-108-C	AFF A700s,HA,24x3.8TB,NSE,40GbE,SAS,-C	1
124	AFF-A700S-109-C	AFF A700s,HA,24x3.8TB,NSE,40GbE,32FC,SAS,-C	1
125	AFF-A700S-110-C	AFF A700s,HA,12x15.3TB,40GbE,SAS,-C	1
126	AFF-A700S-111-C	AFF A700s,HA,12x15.3TB,40GbE,32FC,SAS,-C	1
127	AFF-A700S-112-C	AFF A700s,HA,24x15.3TB,40GbE,SAS,-C	1
128	AFF-A700S-113-C	AFF A700s,HA,24x15.3TB,40GbE,32FC,SAS,-C	1
129	AFF-A700S-114-C	AFF A700s,HA,24x960GB,40GbE,16FC,SAS,-C	1
130	AFF-A700S-115-C	AFF A700s,HA,12x3.8TB,40GbE,16FC,SAS,-C	1
131	AFF-A700S-116-C	AFF A700s,HA,24x3.8TB,40GbE,16FC,SAS,-C	1
132	AFF-A700S-117-C	AFF A700s,HA,12x3.8TB,NSE,40GbE,16FC,SAS,-C	1
133	AFF-A700S-118-C	AFF A700s,HA,24x3.8TB,NSE,40GbE,16FC,SAS,-C	1
134	AFF-A700S-119-C	AFF A700s,HA,12x15.3TB,40GbE,16FC,SAS,-C	1
135	AFF-A700S-120-C	AFF A700s,HA,24x15.3TB,40GbE,16FC,SAS,-C	1
136	AFF-A700S-121-C	AFF A700s,HA,12x7.6TB,40GbE,SAS,-C	1
137	AFF-A700S-122-C	AFF A700s,HA,24x7.6TB,40GbE,SAS,-C	1
138	AFF-A700S-123-C	AFF A700s,HA,12x7.6TB,40GbE,16FC,SAS,-C	1
139	AFF-A700S-124-C	AFF A700s,HA,24x7.6TB,40GbE,16FC,SAS,-C	1
140	AFF-A700S-125-C	AFF A700s,HA,12x7.6TB,40GbE,32FC,SAS,-C	1
141	AFF-A700S-126-C	AFF A700s,HA,24x7.6TB,40GbE,32FC,SAS,-C	1
142	AFF-A700S-127-C	AFF A700s,HA,12x30.6TB,40GbE,SAS,-C	1
143	AFF-A700S-128-C	AFF A700s,HA,24x30.6TB,40GbE,SAS,-C	1
144	AFF-A700S-129-C	AFF A700s,HA,12x30.6TB,40GbE,32FC,SAS,-C	1
145	AFF-A700S-130-C	AFF A700s,HA,24x30.6TB,40GbE,32FC,SAS,-C	1

146	AFF-A700S-131-C	AFF A700s,HA,12x30.6TB,40GbE,16FC,SAS,-C	1
147	AFF-A700S-132-C	AFF A700s,HA,24x30.6TB,40GbE,16FC,SAS,-C	1
148	AFF-A800-100-C	AFF A800,HA,CTL,Encl,AC PS,100G,-C	1
149	AFF-A800A-001	AFF A800 HA System, BASE Bundle	1
150	AFF-A800A-002	AFF A800 HA System,FlashBundle	1
151	AFF-C190A-002-SC	AFF-C190A Flash Bundle	1
152	AFF-C190A-PACK-100	AFF C190,HA,8X960GB,Flash Bundle,NVE UTA	1
153	AFF-C190A-PACK-101	AFF C190,HA,8X960GB,Flash Bundle,NVE RJ45	1
154	AFF-C190A-PACK-102	AFF C190,HA,12X960GB,Flash Bundle,NVE UTA	1
155	AFF-C190A-PACK-103	AFF C190,HA,12X960GB,Flash Bundle,NVE RJ45	1
156	AFF-C190A-PACK-104	AFF C190,HA,18X960GB,Flash Bundle,NVE UTA	1
157	AFF-C190A-PACK-105	AFF C190,HA,18X960GB,Flash Bundle,NVE RJ45	1
158	AFF-C190A-PACK-106	AFF C190,HA,24X960GB,Flash Bundle,NVE UTA	1
159	AFF-C190A-PACK-107	AFF C190,HA,24X960GB,Flash Bundle,NVE RJ45	1
160	AFF-C190A-PACK-108	AFF C190,HA,8X960GB,Flash Bundle,Non-NVE UTA	1
161	AFF-C190A-PACK-109	AFF C190,HA,12X960GB,Flash Bundle,Non-NVE UTA	1
162	AFF-C190A-PACK-110	AFF C190,HA,18X960GB,Flash Bundle,Non-NVE UTA	1
163	AFF-C190A-PACK-111	AFF C190,HA,24X960GB,Flash Bundle,Non-NVE UTA	1

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 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	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	ROQ31B	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 OD1	Factory Integrated	4
4	817709-B21	HPE Ethernet 10/25Gb 2-port FLR-SFP28 BCM57414 Adapter	4
5	817709-B21 OD1	Factory Integrated	4
6	455883-B21	HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver	8
7	455883-B21 OD1	Factory Integrated	8
8	865414-B21	HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power	8

		Supply Kit	
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-PDPDPTC0001	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-FACKIT-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-PDPPDTC0001	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]	SnapshotIQ 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]	SyncIQ 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 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)	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 SyncIQ 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 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.10.3 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	EYEGLOSS-P015	SEL-SUPERNA-EYEGLOSS 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 EMC S5232F-ON Switch, 32x 100GbE QSFP28 ports, IO to PSU air, 2x PSU, OS10

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1	210-AGMN	Dell EMC S5232F-ON Switch, 32x 100GbE QSFP28 ports, IO to PSU air, 2x PSU, OS10	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	OS10 Enterprise	1
5	634-BHCU	Software, Rights to use L3, S6010-ON	4
6	631-AAHQ	S6010-ON User Documentation EMEA	4
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 EMC Switch S4148F-ON, 1U, 48x10GbE SFP+, 4xQSFP28, 2xQSFP+, IO to PSU, 2 PSU, OS10

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1	210-ADUW	Dell EMC Switch S4148F-ON, 1U, 48x10GbE SFP+, 4xQSFP28, 2xQSFP+, IO to PSU, 2 PSU, OS10	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	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 EMC Switch S4148F-ON, 1U, 48x10GbE SFP+, 4xQSFP28, 2xQSFP+, IO to PSU, 2 PSU, OS10

#	Part Number	Specification	Quantity of sub-elements needed for full Configuration
1	210-ADUW	Dell EMC Switch S4148F-ON, 1U, 48x10GbE SFP+, 4xQSFP28, 2xQSFP+, IO to PSU, 2 PSU, OS10	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	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