

# PROCUREMENT OF SERVER INFRASTRUCTURE MODERNISATION AND PRIVATE CLOUD ENABLEMENT USING SITA HUAWEI FRAMEWORK AGREEMENT

## TERMS OF REFERENCE

THE APPOINTMENT OF SERVICE PROVIDER TO PROVIDE SERVER INFRASTRUCTURE  
MODERNISATION AND PRIVATE CLOUD ENABLEMENT USING SITA HUAWEI FRAMEWORK  
AGREEMENT

### 1. Background

KZN COGTA relies on its server infrastructure to host critical applications for local government support, financial management, and administrative functions. The existing infrastructure procured over 5 years ago, it has now reached EOL. The OEM no longer provides security patches, software updates, or hardware support warranties.

This situation creates a precarious operating environment, vulnerable to system failures and cyber-attacks. Furthermore, the legacy infrastructure is inflexible and cannot efficiently support the Department's new strategic direction of digital transformation, which involves developing and deploying automated workflows and digital services.

### 2. Purpose

To appoint a suitably qualified and accredited service provider to supply and install **server infrastructure modernisation and private cloud enablement**, ensuring all data is migrated from the current infrastructure and sites are fully functional.

### 3. Scope of Work

The appointed service provider will be required to:

- supply and install server infrastructure modernisation and private cloud enablement.
- Configure the server infrastructure modernisation and private cloud enablement.
- Migrate the data from the old infrastructure to the new infrastructure.

## 4. Bill of Material

### 4.1 Summary

No.	Model	Description	Unit Qty.	Qty.
		<b>FusionCube Planning Design and Implementation Service(Cross-site quotes)</b>		
<b>1</b>		<b>FusionCube Planning, Design and Implementation Service</b>		<b>1</b>
		FusionCube 1000(Hypervisor) Hardware Installation Service	1	1
		FusionCube 1000(Hypervisor) Planning and Design Service	1	1
		FusionCube 1000(Hypervisor) System Deployment and Commissioning Service	1	1
		FusionCube 1000(Hypervisor) Acceptance Test Service	1	1
		<b>Disaster Recovery and Backup Service(In-site quotes)_region1</b>		
<b>2</b>		<b>Disaster Recovery and Backup Service</b>		<b>1</b>
<b>2.1</b>		<b>OceanProtect mid-range Backup Appliance planning, design, and implementation</b>		
		OceanProtect mid-range Backup Appliance planning, design, and implementation	1	1
		OceanProtect Backup Appliance Scenario-based Backup Service	1	1
		<b>Disaster Recovery and Backup Service(In-site quotes)_region2</b>		
<b>3</b>		<b>Disaster Recovery and Backup Service</b>		<b>1</b>
<b>3.1</b>		<b>OceanProtect mid-range Backup Appliance planning, design, and implementation</b>		
		OceanProtect mid-range Backup Appliance planning, design, and implementation	1	1
		OceanProtect Backup Appliance Scenario-based Backup Service	1	1
		<b>HW-OceanProtect Proxy Node-HCS 3rd Party Server 8</b>		
<b>4</b>		<b>FusionCube</b>		<b>4</b>
<b>4.1</b>		<b>FusionCube,Cpt Node(CNA)</b>		
<b>4.1.1</b>		<b>FusionCube</b>		
		<b>Hyperconverged DP2220</b>		
		<b>DP2220, Basic Configuration</b>		
	FC880707109	Hyper-converged Node-DP2220(8*2.5inch Chassis, 2*C6430, 2*GE, 2*10GE, 2*2000W)DP2220	1	4
		<b>DP2220, Memory</b>		
	FCDP20322B6	DDR RDIMM-64GB-288pin-0.357ns-5600000KHz-1.1V-ECC-2Rank(4G*4bit)-B21-AK-X4L,prememtest-crc-load	8	32
		<b>DP2220, Hard Disk (With 2.5" Front Panel)-SSD/NVMe</b>		
	FCV7-SSD-480G2T	480GB SSD SATA Disk Unit(2.5")	2	8
		<b>DP2220-Raid Card</b>		
	RAX95608i4CO	9560-8i RAID Controller,PCIE 4.0 X8 ,4GB cache,RAID 0,1,5,6,10,50,60,Support SuperCap and Sideband Management	1	4
		<b>DP2220, Riser Card</b>		
	DP2216XP5028XP40	2U,1*16X PCIE5.0+2*8X PCIE4.0,RISER1&2 Module	1	4
		<b>DP2220, PCIe Network Adapter</b>		
	P5U2N120HD35I	HP380 Ethernet Adapter,25GE,Dual-Port,SFP28(without Optical Transceiver),Half-height Half-length,Full Handle bars,PCIE 3.0 x8	2	8
		<b>DP2220, Cables and optical modules</b>		
	SFP-1000BaseT	Electrical Transceiver,SFP,GE,Electrical Interface Module(100m,RJ45)	1	4
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	6	24
	C00SSTC03	Traditional Signal Cable,5m	1	4
<b>4.2</b>		<b>FusionCube,Cabinet</b>		
<b>4.2.1</b>		<b>Optical modules&amp;cables</b>		
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	6	24
<b>4.2.2</b>		<b>Cabinet Auxiliary</b>		
	SN2F10FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,5m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	6	24
<b>4.3</b>		<b>FusionCube-FusionCube Solution Software</b>		

<b>4.3.1</b>	<b>Main Equipment Value-added Package License</b>			
	FC09MGMTST01	Infrastructure Software Management Standard Edition(D),Per CPU	2	8
<b>4.4</b>	<b>Technical Support Service</b>			
	02356LMR_88134UJL-5TY_60	Hyper-converged Node-DP2220(8*2.5inch Chassis, 2*C6430, 2*GE, 2*10GE, 2*2000W)DP2220_Hi-Care Standard FusionCube DP2220-C6xxx_60Month(s)	1	4
	02357EQC_88134UJL-5W9_60	480GB SSD SATA Disk Unit(2.5")_Hi-Care Standard FusionCube 480G SSD_60Month(s)	2	8
	<b>PS-HCS Cloud BC&amp;DR ProServ(In-site quotes)_region1</b>			
<b>5</b>	<b>HCS-Disaster Recovery and Backup Service</b>			<b>1</b>
<b>5.1</b>	<b>HCS-Disaster Backup Planning Design and Implementation</b>			
	8814067221	HCS-CSBS&VBS-Planning, Design & Implementation Service-One-off,18 CPU	1	1
	<b>PS-HCS Cloud BC&amp;DR ProServ(In-site quotes)_region2</b>			
<b>6</b>	<b>HCS-Disaster Recovery and Backup Service</b>			<b>1</b>
<b>6.1</b>	<b>HCS-Disaster Backup Planning Design and Implementation</b>			
	8814067221	HCS-CSBS&VBS-Planning, Design & Implementation Service-One-off,18 CPU	1	1
	<b>HW-General Leaf-CE6855-48XS8CQ(C13_South Africa)</b>			
<b>7</b>	<b>CloudEngine 6800 TOR Switch</b>			<b>2</b>
<b>7.1</b>	<b>CloudEngine 6800-Mainframe</b>			
	CE6855-48XS8CQ-B	CE6855-48XS8CQ switch (48*10GE SFP+, 8*100GE QSFP28, 2*AC Power Modules, 3*Fans, Port-side Intake)	1	2
<b>7.2</b>	<b>Software</b>			
	N1-CE68LIC-CFFD	N1-CloudFabric Foundation SW License for CloudEngine 6800	1	2
	N1-CE68CFFD-SnS1Y	N1-CloudFabric Foundation SW License for CloudEngine 6800-SnS-Year(Annual fee validity period : 5 years from" PO signed plus 90 days")	1	2
<b>7.3</b>	<b>Optical Transceiver</b>			
<b>7.3.1</b>	<b>GE-SFP Optical Transceiver</b>			
	SFP-1000BaseT-G2	Electrical Transceiver,SFP,GE,Electrical Interface Module(100m,RJ45)	1	2
<b>7.3.2</b>	<b>10G-SFP+Optical Transceiver</b>			
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	12	24
<b>7.3.3</b>	<b>40GE-QSFP+Optical Transceiver</b>			
	QSFP-40G-eSR4	40GBase-eSR4 Optical Transceiver,QSFP+,40G,Multi-mode (850nm,0.3km,MPO)(connecting to one QSFP+ or four SFP+)	4	8
<b>7.4</b>	<b>TOR-Installation Materials</b>			
<b>7.4.1</b>	<b>Optical Connector</b>			
	SS-OP-D-MPO12-M-15	Optical Cable Parts,MPO/PC,MPO/PC,MULTI-MODE,15m,8 CORES,0m/0m,GJFH-8A1A.2(OM3),3.5MM,LSZH,60mm MPO,Bending insensitive	4	8
	SN2F02FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,10m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	12	24
<b>7.5</b>	<b>Technical Support Service</b>			
	02355KTK_88134UFA-2LM_60	CE6855-48XS8CQ switch (48*10GE SFP+, 8*100GE QSFP28, 2*AC Power Modules, 3*Fans, Port-side Intake)_Hi-Care Basic CE6855-48XS8CQ_60Month(s)	1	2
	<b>HW-External access TOR-CE6855-48XS8CQ(C13_South Africa)</b>			
<b>8</b>	<b>CloudEngine 6800 TOR Switch</b>			<b>2</b>
<b>8.1</b>	<b>CloudEngine 6800-Mainframe</b>			
	CE6855-48XS8CQ-B	CE6855-48XS8CQ switch (48*10GE SFP+, 8*100GE QSFP28, 2*AC Power Modules, 3*Fans, Port-side Intake)	1	2
<b>8.2</b>	<b>Software</b>			
	N1-CE68LIC-CFFD	N1-CloudFabric Foundation SW License for CloudEngine 6800	1	2
	N1-CE68CFFD-SnS1Y	N1-CloudFabric Foundation SW License for CloudEngine 6800-SnS-Year(Annual fee validity period : 5 years from" PO signed plus 90 days")	1	2
<b>8.3</b>	<b>Optical Transceiver</b>			

<b>8.3.1</b>	<b>10G-SFP+Optical Transceiver</b>			
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	2	4
<b>8.3.2</b>	<b>40GE-QSFP+Optical Transceiver</b>			
	QSFP-40G-eSR4	40GBase-eSR4 Optical Transceiver,QSFP+,40G,Multi-mode (850nm,0.3km,MPO)(connecting to one QSFP+ or four SFP+)	4	8
<b>8.4</b>	<b>TOR-Installation Materials</b>			
<b>8.4.1</b>	<b>Optical Connector</b>			
	SS-OP-D-MPO12-M-15	Optical Cable Parts,MPO/PC,MPO/PC,MULTI-MODE,15m,8 CORES,0m/0m,GJFH-8A1A.2(OM3),3.5MM,LSZH,60mm MPO,Bending insensitive	4	8
	SN2F02FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,10m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	2	4
<b>8.5</b>	<b>Technical Support Service</b>			
	02355KTK_88134UFA-2LM_60	CE6855-48XS8CQ switch (48*10GE SFP+, 8*100GE QSFP28, 2*AC Power Modules, 3*Fans, Port-side Intake)_Hi-Care Basic CE6855-48XS8CQ_60Month(s)	1	2
	<b>HW-Outbound Area 1/Service Zone Backup Storage-OceanProtect X6000 Appliance</b>			
<b>9</b>	<b>OceanProtect X6000 Appliance</b>			<b>2</b>
<b>9.1</b>	<b>OceanProtect X6000 Main Equipment</b>			
<b>9.1.1</b>	<b>Dual-Controller Unit 1</b>			
	<b>All-Flash Controller Enclosure</b>			
	X6512G2CN36DAC-EUBF	OceanProtect X6000(2U,Dual Ctrl,All-Flash,NVMe,AC/240V HVDC,512GB cache,4*100Gb RDMA,36*Palm,SPE63C0236,Applicable to 1.2m-Depth Cabinets)	1	2
	<b>Expansion Interface Module</b>			
	SMARTIO4*10E-LL	4 ports SmartIO I/O module(SFP+,10Gb ETH)	6	12
	<b>Disk Components</b>			
	OP-SSDNVMe-15.36TD	15.36TB Capacity-Optimized SSD NVMe Palm Disk Unit(7")	14	28
<b>9.2</b>	<b>Installation Material</b>			
	SN2F01FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,3m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	24	48
<b>9.3</b>	<b>Software</b>			
	LICX6000SW-QY	Backup Storage Essential Capacity License Enhanced Edition(including 40 TB capacity license)	1	2
	LICX6000DD1TBS-QY	Backup Storage Capacity License Enhanced Edition(41~300TB)	176	352
	LICX6DBCTB-CSBS	Data Backup Capacity License-CSBS(Per TiB)	128	256
<b>9.4</b>	<b>Technical Support Service</b>			
	88039LSM_88134UHK-1UD_60	Backup Storage Capacity License Enhanced Edition(41~300TB)_Hi-Care Application Software Upgrade Support Service OceanProtect X6000-Dedicated Backup Storage Software Capacity License (41~300 TB)_60Month(s)	176	352
	88038WNT_88134UHK-1W8_60	Data Backup Capacity License-CSBS(Per TiB)_Hi-Care Application Software Upgrade Support Service Data backup capacity license-CSBS/VBS (per TiB)_60Month(s)	128	256
	02356BBN_88134UJL-5E9_60	OceanProtect X6000(2U,Dual Ctrl,All-Flash,NVMe,AC/240V HVDC,512GB cache,4*100Gb RDMA,36*Palm,SPE63C0236,Applicable to 1.2m-Depth Cabinets)_Hi-Care Standard OceanProtect X6000 Engine(Dual Ctrl)_60Month(s)	1	2
	88039LSH_88134UHK-1LP_60	Backup Storage Essential Capacity License Enhanced Edition(including 40 TB capacity license)_Hi-Care Application Software Upgrade Support Service OceanProtect X6000 Dedicated Backup Storage Software Essential License(including 40 TB capacity license)_60Month(s)	1	2
	02356SHA_88134UJL-5R8_60	15.36TB Capacity-Optimized SSD NVMe Palm Disk Unit(7")_Hi-Care Standard OceanProtect 15.36T Capacity SSD_60Month(s)	14	28

#### 4.2 BOM FOR YEAR 1

No.	Model	Description	Unit Qty.	Qt y.
	OceanStor Dorado 5000 V7			
<b>1</b>	OceanStor Dorado 5000			<b>1</b>

<b>1.1</b>	<b>OceanStor Dorado 5000 Main Equipment</b>			
<b>1.1.1</b>	<b>Dual-Controller Unit 1</b>			
	<b>Controller Enclosure</b>			
	D5V7-512G-NVMe	OceanStor Dorado 5000 (2U,Dual Ctrl,NVMe,AC\240V HVDC,512GB Cache,4*100Gb RDMA,36*Palm,SPE63C0236,Applicable to 1.2m-Depth Cabinets,V7)	1	1
	<b>Expanding Interface Module</b>			
	V7S4*10GE	4 ports DPU-Based SmartIO I/O module(SFP+,10Gb ETH)	2	2
	<b>Disk Components</b>			
	D5V7-NVMe15.36	15.36TB SSD NVMe Palm Disk Unit(7")	20	20
<b>1.2</b>	<b>Installation Material</b>			
	SN2F01FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,3m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	8	8
<b>1.3</b>	<b>Software</b>			
	D5V7-LBS-Super	SAN License Bundle (IncludingThin,Snap,Replication,Clone,QoS,Erase,DME IQ,Virtualization,Metro,CDP,Multi-Tenant)	1	1
	D5V7-DDCM-C-SUP-RES2	SmartDedupe & SmartCompression Software License General Edition	1	1
	D5V7-LBS-UltraPath	UltraPath SAN Client License	1	1
<b>1.4</b>	<b>Technical Support Service</b>			
	02356VUF_88134UJL-65H_60	OceanStor Dorado 5000 (2U,Dual Ctrl,NVMe,AC\240V HVDC,512GB Cache,4*100Gb RDMA,36*Palm,SPE63C0236,Applicable to 1.2m-Depth Cabinets,V7)_Hi-Care Standard Dorado 5000 V7 Controller_60Month(s)	1	1
	02551922_88134UJL-68U_60	15.36TB SSD NVMe Palm Disk Unit(7")_Hi-Care Standard Dorado 5000v7 15.36T SSD_60Month(s)	20	20
	8803011346_88134UHK-28B_60	SAN License Bundle (IncludingThin,Snap,Replication,Clone,QoS,Erase,DME IQ,Virtualization,Metro,CDP,Multi-Tenant)_Hi-Care Application Software Upgrade Support Service Dorado 5000 SAN License Bundle_60Month(s)	1	1
	8803011908_88134UHK-28M_60	UltraPath SAN Client License_Hi-Care Application Software Upgrade Support Service Dorado 5000 UltraPath SAN Client License_60Month(s)	1	1
	<b>FusionCube Planning Design and Implementation Service(Cross-site quotes)</b>			
<b>2</b>	<b>FusionCube Planning, Design and Implementation Service</b>			<b>1</b>
		FusionCube 1000(Hypervisor) Hardware Installation Service	1	1
		FusionCube 1000(Hypervisor) Planning and Design Service	1	1
		FusionCube 1000(Hypervisor) System Deployment and Commissioning Service	1	1
		FusionCube 1000(Hypervisor) Acceptance Test Service	1	1
	<b>CLOUD Stack8.x IaaS Cloud Service Training</b>			
<b>3</b>	<b>HCS Product Technical Training</b>			<b>1</b>
<b>3.1</b>	<b>Cloud Computing PTT</b>			
<b>3.1.1</b>	<b>HCS-CLOUD Stack Solution and Typical Cloud Service Training</b>			
	88991YWC	HCS-CLOUD Stack8.x IaaS Cloud Service Training-III-Class/Day-5.0Day	1	1
<b>3.2</b>	<b>HCS Training Service -Board and board tickets</b>			
	88992CGM	HCS-Training Service Trainer Accommodation-Person/Day	6	6
	88992CGN	HCS-Training Service Instructor Round-trip ticket-Per Time	1	1
	<b>CLOUD Stack 8.x Administrator Training_region1</b>			
<b>4</b>	<b>HCS Product Technical Training</b>			<b>1</b>

<b>4.1</b>	<b>Cloud Computing PTT</b>			
<b>4.1.1</b>	<b>CLOUD Stack Solution and Typical Cloud Service Training</b>			
	88991YWD	HCS-CLOUD Stack 8.x Administrator Training-III-Class/Day-5.0Day	1	1
<b>4.2</b>	<b>HCS Training Service -Board and board tickets</b>			
	88992CGM	HCS-Training Service Trainer Accommodation-Person/Day	6	6
	88992CGN	HCS-Training Service Instructor Round-trip ticket-Per Time	1	1
	<b>SW-eSight 24</b>			
<b>5</b>	<b>eSight</b>			<b>1</b>
<b>5.1</b>	<b>eSight 24(O1 License includes eSight software functions, OLT/ONU software functions)</b>			
	NSHSPLATFM11	Platform	1	1
	NSHSPLATFMS1	Platform, Subscription and Support (Annual fee validity period : 5 years from" PO signed plus 90 days ")	1	1
	NSHSSNWMGR11	Network Management License, 1 Device	16	16
	NSHSSNWMGRS1	Network Management License, Subscription and Support, 1 Device(Annual fee validity period : 5 years from" PO signed plus 90 days ")	16	16
	NSHSSEVMGR11	Server Management License, 1 Device	12	12
	NSHSSEVMGRS1	Server Management License, Subscription and Support, 1 Device(Annual fee validity period : 5 years from" PO signed plus 90 days ")	12	12
	NSHSSTRMGR11	Storage Management License, 1 Device	2	2
	NSHSSTRMGRS1	Storage Management License, Subscription and Support, 1 Device(Annual fee validity period : 5 years from" PO signed plus 90 days ")	2	2
	<b>HCS Host Migration_region1</b>			
<b>6</b>	<b>HCS Host Migration Service</b>			<b>1</b>
	8814266070	HCS-Host-Host Migration Service-per Device	100	100
	<b>IP Network Solution Implementation Service-New build(Cross-site quotes)_region1</b>			
<b>7</b>	<b>IP Network Solution Implementation</b>			<b>1</b>
<b>7.1</b>	<b>Network Commissioning and Integration</b>			
	88142BWA	Formulating the Implementation Solution- "Formulate the implementation solution based on the target network LLD to guide project deployment."	1	1
	88142BXD	Commissioning and Integration- "Based on the target network design solution, perform integrated commissioning of the entire network, complete the target network construction."	1	1
	<b>Network Security Planning and Integration Service(Cross-site quotes)_region1</b>			
<b>8</b>	<b>Network security planning and integration service</b>			<b>1</b>
<b>8.1</b>	<b>Network Security Planning and Integration Service</b>			
		Network security planning and Integration service, Oversea - Analysis of security requirements, design and verification of security architecture, implementation analysis, security configuration analysis, and security policy configuration.Equipment: High-end device(Big Frame) 0 SET; High-end device(Middle Frame) 0 SET; Mid-range device 0 SET; Low-end device(Middle Box) 1 SET; Low-end device(Small Box) 0 SET; Desktop Unit 0 SET; Management Server & Software 0 SET; Project Management: 0 Man-Day;	1	1
	<b>HW-Management Node-HCS 3rd Party Server 8_region1</b>			
<b>9</b>	<b>FusionCube</b>			<b>3</b>
<b>9.1</b>	<b>FusionCube-Stg&amp;Cpt Node(SCNA)</b>			
<b>9.1.1</b>	<b>FusionCube</b>			
	<b>Hyperconverged DP2220</b>			

	<b>DP2220, Basic Configuration</b>			
	FC20DP18Y01	Hyper-converged node-DP2220 (12*3.5" hard disk EXP chassis, 2*C5418Y, 2*GE, 2*10GE, 2*1300W AC) DP2220	1	3
	<b>DP2220, Memory</b>			
	M5288P1R44S56K32	Memory Module,DDR RDIMM Memory,32GB,5600000KHz,1Rank(4G*4bit),1.1V,ECC	8	24
	<b>DP2220, Hard Disk (With 2.5" Front Panel)-SSD/NVMe</b>			
	FCV7-SSD960G2S	960GB SSD SAS Disk Unit(2.5")	2	6
	FCV7-SSD-3.2T2P-1	3.2TB SSD NVMe Disk Unit(2.5")	1	3
	<b>DP2220, Hard Disk (With 3.5" Front Panel)-SAS/SATA HDD</b>			
	FCV7-SATA-4T3T	4TB 7.2K RPM SATA Disk Unit(3.5")	8	24
	<b>DP2220-Raid Card</b>			
	RAX95608i4CO	9560-8i RAID Controller,PCIE 4.0 X8 ,4GB cache,RAID 0,1,5,6,10,50,60,Support SuperCap and Sideband Management	1	3
	<b>DP2220, Riser Card</b>			
	DP2216XP5028XP40	2U,1*16X PCIE5.0+2*8X PCIE4.0,RISER1&2 Module	2	6
	DP224X2.5D	Rear PSU 4*2.5 inch Hard Disk Backplane Module(for SAS/NVME)	1	3
	<b>DP2220, PCIe Network Adapter</b>			
	P5U2N120HD35I	HP380 Ethernet Adapter,25GE,Dual-Port,SFP28(without Optical Transceiver),Half-height Half-length,Full Handle bars,PCIE 3.0 x8	2	6
	<b>DP2220, Cables and optical modules</b>			
	SFP-1000BaseT	Electrical Transceiver,SFP,GE,Electrical Interface Module(100m,RJ45)	1	3
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	6	18
	C00SSTC03	Traditional Signal Cable,5m	1	3
<b>9.2</b>	<b>FusionCube,Cabinet</b>			
<b>9.2.1</b>	<b>Optical modules&amp;cables</b>			
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	6	18
<b>9.2.2</b>	<b>Cabinet Auxiliary</b>			
	SN2F10FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,5m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	6	18
<b>9.3</b>	<b>FusionCube-FusionCube Solution Software</b>			
<b>9.3.1</b>	<b>Main Equipment Value-added Package License</b>			
	FC09MGMTST01	Infrastructure Software Management Standard Edition(D),Per CPU	2	6
<b>9.4</b>	<b>Technical Support Service</b>			
	02357AKX_88134UJL-5WB_60	960GB SSD SAS Disk Unit(2.5")_Hi-Care Standard FusionCube 960G SSD_60Month(s)	2	6
	02356TBG_88134UJL-5TV_60	Hyper-converged node-DP2220 (12*3.5" hard disk EXP chassis, 2*C5418Y, 2*GE, 2*10GE, 2*1300W AC) DP2220_Hi-Care StandardFusionCube DP2220-C5xxx_60Month(s)	1	3
	02357EPR_88134UJL-5W8_60	3.2TB SSD NVMe Disk Unit(2.5")_Hi-Care Standard Fusioncube 3.2T-3.84T SSD_60Month(s)	1	3
	<b>HW-Network Node-HCS 3rd Party Server 8_region1</b>			
<b>10</b>	<b>FusionCube</b>			<b>2</b>
<b>10.1</b>	<b>FusionCube,Cpt Node(CNA)</b>			
<b>10.1.1</b>	<b>FusionCube</b>			
	<b>Hyperconverged DP2220</b>			
	<b>DP2220, Basic Configuration</b>			
	FC880707113	Hyper-converged Node-DP2220(8*2.5inch Chassis, 2*C5418Y, 2*GE, 2*10GE, 2*1300W)DP2220	1	2
	<b>DP2220, Memory</b>			

	FCDP20322B6	DDR RDIMM-64GB-288pin-0.357ns-5600000KHz-1.1V-ECC-2Rank(4G*4bit)-B21-AK-X4L,prememtest-crc-load	8	16
	<b>DP2220, Hard Disk (With 2.5" Front Panel)-SSD/NVMe</b>			
	FCV7-SSD-480G2T	480GB SSD SATA Disk Unit(2.5")	2	4
	<b>DP2220-Raid Card</b>			
	RAX95608i4CO	9560-8i RAID Controller,PCIE 4.0 X8 ,4GB cache,RAID 0,1,5,6,10,50,60,Support SuperCap and Sideband Management	1	2
	<b>DP2220, Riser Card</b>			
	DP2216XP5028XP40	2U,1*16X PCIE5.0+2*8X PCIE4.0,RISER1&2 Module	1	2
	<b>DP2220, PCIe Network Adapter</b>			
	P5U2N120HD35I	HP380 Ethernet Adapter,25GE,Dual-Port,SFP28(without Optical Transceiver),Half-height Half-length,Full Handle bars,PCIE 3.0 x8	2	4
	<b>DP2220, Cables and optical modules</b>			
	SFP-1000BaseT	Electrical Transceiver,SFP,GE,Electrical Interface Module(100m,RJ45)	1	2
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	6	12
	C00SSTC03	Traditional Signal Cable,5m	1	2
<b>10.2</b>	<b>FusionCube,Cabinet</b>			
<b>10.2.1</b>	<b>Optical modules&amp;cables</b>			
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	6	12
<b>10.2.2</b>	<b>Cabinet Auxiliary</b>			
	SN2F10FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,5m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	6	12
<b>10.3</b>	<b>FusionCube-FusionCube Solution Software</b>			
<b>10.3.1</b>	<b>Main Equipment Value-added Package License</b>			
	FC09MGMTST01	Infrastructure Software Management Standard Edition(D),Per CPU	2	4
<b>10.4</b>	<b>Technical Support Service</b>			
	02356LMK_88134UJL-5TV_60	Hyper-converged Node-DP2220(8*2.5inch Chassis, 2*C5418Y, 2*GE, 2*10GE, 2*1300W)DP2220_Hi-Care StandardFusionCube DP2220-C5xxx 60Month(s)	1	2
	02357EQC_88134UJL-5W9_60	480GB SSD SATA Disk Unit(2.5")_Hi-Care Standard FusionCube 480G SSD_60Month(s)	2	4
	<b>HW-Computing Node-HCS 3rd Party Server 8_region1</b>			
<b>11</b>	<b>FusionCube</b>			<b>4</b>
<b>11.1</b>	<b>FusionCube,Cpt Node(CNA)</b>			
<b>11.1.1</b>	<b>FusionCube</b>			
	<b>Hyperconverged DP2220</b>			
	<b>DP2220, Basic Configuration</b>			
	FC880707109	Hyper-converged Node-DP2220(8*2.5inch Chassis, 2*C6430, 2*GE, 2*10GE, 2*2000W)DP2220	1	4
	<b>DP2220, Memory</b>			
	FCDP20322B6	DDR RDIMM-64GB-288pin-0.357ns-5600000KHz-1.1V-ECC-2Rank(4G*4bit)-B21-AK-X4L,prememtest-crc-load	8	32
	<b>DP2220, Hard Disk (With 2.5" Front Panel)-SSD/NVMe</b>			
	FCV7-SSD-480G2T	480GB SSD SATA Disk Unit(2.5")	2	8
	<b>DP2220-Raid Card</b>			
	RAX95608i4CO	9560-8i RAID Controller,PCIE 4.0 X8 ,4GB cache,RAID 0,1,5,6,10,50,60,Support SuperCap and Sideband Management	1	4
	<b>DP2220, Riser Card</b>			
	DP2216XP5028XP40	2U,1*16X PCIE5.0+2*8X PCIE4.0,RISER1&2 Module	1	4
	<b>DP2220, PCIe Network Adapter</b>			

	P5U2N120HD35I	HP380 Ethernet Adapter,25GE,Dual-Port,SFP28(without Optical Transceiver),Half-height Half-length,Full Handle bars,PCIE 3.0 x8	2	8
	<b>DP2220, Cables and optical modules</b>			
	SFP-1000BaseT	Electrical Transceiver,SFP,GE,Electrical Interface Module(100m,RJ45)	1	4
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	6	24
	C00SSTC03	Traditional Signal Cable,5m	1	4
<b>11.2</b>	<b>FusionCube,Cabinet</b>			
<b>11.2.1</b>	<b>Optical modules&amp;cables</b>			
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	6	24
<b>11.2.2</b>	<b>Cabinet Auxiliary</b>			
	SN2F10FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,5m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	6	24
<b>11.3</b>	<b>FusionCube-FusionCube Solution Software</b>			
<b>11.3.1</b>	<b>Main Equipment Value-added Package License</b>			
	FC09MGMTST01	Infrastructure Software Management Standard Edition(D),Per CPU	2	8
<b>11.4</b>	<b>Technical Support Service</b>			
	02356LMR_88134UJL-5TY_60	Hyper-converged Node-DP2220(8*2.5inch Chassis, 2*C6430, 2*GE, 2*10GE, 2*2000W)DP2220_Hi-Care StandardFusionCube DP2220-C6xxx_60Month(s)	1	4
	02357EQC_88134UJL-5W9_60	480GB SSD SATA Disk Unit(2.5")_Hi-Care Standard FusionCube 480G SSD_60Month(s)	2	8
	<b>USG6655F(C13_South Africa) V600R024_region1</b>			
<b>12</b>	<b>USG6600E/USG6600F</b>			<b>1</b>
<b>12.1</b>	<b>USG6600E/USG6600F</b>			
	USG6655F-AC	USG6655F-AC(HTM) AC Host(8*GE COMBO + 4*GE RJ45 + 10*10GE SFP+ ,2 AC POWER)	1	1
<b>12.2</b>	<b>Storage Module</b>			
	SSD-SATA960G-D	SSD-SATA960G-D-Solid State Drives	1	1
<b>12.3</b>	<b>Optical Transmitter Module Collection</b>			
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	12	12
<b>12.4</b>	<b>Installation Material</b>			
	E00TSLD00	Extension Guide Rail	1	1
<b>12.5</b>	<b>Unified Security Gateway License Package</b>			
<b>12.5.1</b>	<b>N1 License Package</b>			
	N1-USG6655F-F-Lic	N1-USG6655F Foundation, Per Device	1	1
	N1-USG6655F-F-SnS1Y	N1-USG6655F Foundation, SnS, Per Device, Per Year(Annual fee validity period : 5 years from" PO signed plus 90 days ")	1	1
<b>12.5.2</b>	<b>IPS-AV-URL-TP License Package</b>			
	LIC-USG6655F-TP-1Y-OVS	Threat Protection Subscription Per Year(Applies to USG6655F Overseas)(Annual fee validity period : 5 years from" PO signed plus 90 days ")	1	1
<b>12.6</b>	<b>Technical Support Service</b>			
	02353WAW_88134UFA-68Q_60	USG6655F-AC(HTM) AC Host(8*GE COMBO + 4*GE RJ45 + 10*10GE SFP+ ,2 AC POWER)_Hi-Care Basic USG6655F_60Month(s)	1	1
	<b>HW-Network node Management Service Leaf-CE6855-48XS8CQ(C13_South Africa)_region1</b>			
<b>13</b>	<b>CloudEngine 6800 TOR Switch</b>			<b>2</b>
<b>13.1</b>	<b>CloudEngine 6800-Mainframe</b>			
	CE6855-48XS8CQ-B	CE6855-48XS8CQ switch (48*10GE SFP+, 8*100GE QSFP28, 2*AC Power Modules, 3*Fans, Port-side Intake)	1	2

<b>13.2</b>	<b>Software</b>			
	N1-CE68LIC-CFFD	N1-CloudFabric Foundation SW License for CloudEngine 6800	1	2
	N1-CE68CFFD-SnS1Y	N1-CloudFabric Foundation SW License for CloudEngine 6800-SnS-Year(Annual fee validity period : 5 years from" PO signed plus 90 days ")	1	2
<b>13.3</b>	<b>Optical Transceiver</b>			
<b>13.3.1</b>	<b>10G-SFP+Optical Transceiver</b>			
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	8	16
<b>13.4</b>	<b>TOR-Installation Materials</b>			
<b>13.4.1</b>	<b>Optical Connector</b>			
	SN2F02FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,10m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	8	16
<b>13.5</b>	<b>Technical Support Service</b>			
	02355KTK_88134UFA-2LM_60	CE6855-48XS8CQ switch (48*10GE SFP+, 8*100GE QSFP28, 2*AC Power Modules, 3*Fans, Port-side Intake) Hi-Care Basic CE6855-48XS8CQ_60Month(s)	1	2
	<b>HW-Compute/Storage Node Leaf-CE6855-48XS8CQ(C13_South Africa)_region1</b>			
<b>14</b>	<b>CloudEngine 6800 TOR Switch</b>			<b>2</b>
<b>14.1</b>	<b>CloudEngine 6800-Mainframe</b>			
	CE6855-48XS8CQ-B	CE6855-48XS8CQ switch (48*10GE SFP+, 8*100GE QSFP28, 2*AC Power Modules, 3*Fans, Port-side Intake)	1	2
<b>14.2</b>	<b>Software</b>			
	N1-CE68LIC-CFFD	N1-CloudFabric Foundation SW License for CloudEngine 6800	1	2
	N1-CE68CFFD-SnS1Y	N1-CloudFabric Foundation SW License for CloudEngine 6800-SnS-Year(Annual fee validity period : 5 years from" PO signed plus 90 days ")	1	2
<b>14.3</b>	<b>Optical Transceiver</b>			
<b>14.3.1</b>	<b>10G-SFP+Optical Transceiver</b>			
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	28	56
<b>14.4</b>	<b>TOR-Installation Materials</b>			
<b>14.4.1</b>	<b>Optical Connector</b>			
	SN2F02FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,10m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	28	56
<b>14.5</b>	<b>Technical Support Service</b>			
	02355KTK_88134UFA-2LM_60	CE6855-48XS8CQ switch (48*10GE SFP+, 8*100GE QSFP28, 2*AC Power Modules, 3*Fans, Port-side Intake) Hi-Care Basic CE6855-48XS8CQ_60Month(s)	1	2
	<b>HW-Management Leaf-CE6855-48XS8CQ(C13_South Africa)_region1</b>			
<b>15</b>	<b>CloudEngine 6800 TOR Switch</b>			<b>2</b>
<b>15.1</b>	<b>CloudEngine 6800-Mainframe</b>			
	CE6855-48XS8CQ-B	CE6855-48XS8CQ switch (48*10GE SFP+, 8*100GE QSFP28, 2*AC Power Modules, 3*Fans, Port-side Intake)	1	2
<b>15.2</b>	<b>Software</b>			
	N1-CE68LIC-CFFD	N1-CloudFabric Foundation SW License for CloudEngine 6800	1	2
	N1-CE68CFFD-SnS1Y	N1-CloudFabric Foundation SW License for CloudEngine 6800-SnS-Year(Annual fee validity period : 5 years from" PO signed plus 90 days ")	1	2
<b>15.3</b>	<b>Optical Transceiver</b>			
<b>15.3.1</b>	<b>10G-SFP+Optical Transceiver</b>			
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	10	20

<b>15.4</b>	<b>TOR-Installation Materials</b>			
<b>15.4.1</b>	<b>Optical Connector</b>			
	SN2F02FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,10m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	10	20
<b>15.5</b>	<b>Technical Support Service</b>			
	02355KTK_88134UFA-2LM_60	CE6855-48XS8CQ switch (48*10GE SFP+, 8*100GE QSFP28, 2*AC Power Modules, 3*Fans, Port-side Intake)_Hi-Care Basic CE6855-48XS8CQ_60Month(s)	1	2
	HW-BMC TOR switch-CE5855-48T4XS(C13_South Africa)_region1			
<b>16</b>	<b>CloudEngine 5800 TOR Switch</b>			<b>2</b>
<b>16.1</b>	<b>CloudEngine 5800-Mainframe</b>			
	CE5855-48T4XS-B	CE5855-48T4XS switch (48*GE RJ45, 4*10GE SFP, 2*AC Power Modules, Built-in Fans, Port-side Intake)	1	2
<b>16.2</b>	<b>Optical Transceiver</b>			
<b>16.2.1</b>	<b>GE-SFP Optical Transceiver</b>			
	SFP-1000BaseT-G2	Electrical Transceiver,SFP,GE,Electrical Interface Module(100m,RJ45)	17	34
<b>16.2.2</b>	<b>10G-SFP+Optical Transceiver</b>			
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	4	8
<b>16.3</b>	<b>TOR-Installation Materials</b>			
<b>16.3.1</b>	<b>Optical Connector</b>			
	SN2F02FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,10m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	4	8
<b>16.4</b>	<b>Technical Support Service</b>			
	98012222_88134UFA-487_60	CE5855-48T4XS switch (48*GE RJ45, 4*10GE SFP, 2*AC Power Modules, Built-in Fans, Port-side Intake)_Hi-Care Basic CE5855-48T4XS_60Month(s)	1	2
	HW-Spine-CE8865-4C_1(C13_South Africa)_region1			
<b>17</b>	<b>CloudEngine 8800 &amp; XH8000 TOR Switch</b>			<b>2</b>
<b>17.1</b>	<b>CloudEngine 8800 Mainframe</b>			
	CE8865-4C-B	CE8865-4C mainframe (4*subcard slots, 2*AC Power Module,3*FAN Box,Port-side Intake)	1	2
<b>17.2</b>	<b>CloudEngine 8800 Interface Card</b>			
	CE88-D16CQ-H	CE8865:16 Port 100GE QSFP28 Interface Card(CM)	2	4
	CE88-D24T2CQ-H	CE8865:24 Port 10GE Base-T and 2 Port 100GE QSFP28 Interface Card(CM)	1	2
<b>17.3</b>	<b>Software</b>			
	N1-CE88LIC-CFFD	N1-CloudFabric Foundation SW License for CloudEngine 8800	1	2
	N1-CE88CFFD-SnS1Y	N1-CloudFabric Foundation SW License for CloudEngine 8800-SnS-Year(Annual fee validity period : 5 years from" PO signed plus 90 days ")	1	2
<b>17.4</b>	<b>Optical Transceiver</b>			
<b>17.4.1</b>	<b>40GE-QSFP+Optical Transceiver</b>			
	QSFP-40G-eSR4	40GBase-eSR4 Optical Transceiver,QSFP+,40G,Multi-mode (850nm,0.3km,MPO)(connecting to one QSFP+ or four SFP+)	10	20
<b>17.5</b>	<b>TOR-Installation Materials</b>			
<b>17.5.1</b>	<b>Optical Connector</b>			
	SS-OP-D-MPO12-M-15	Optical Cable Parts,MPO/PC,MPO/PC,MULTI-MODE,15m,8 CORES,0m/0m,GJFH-8A1A.2(OM3),3.5MM,LSZH,60mm MPO,Bending insensitive	10	20
<b>17.6</b>	<b>Technical Support Service</b>			

	02355RTB_88134UFA-5RM_60	CE8865-4C mainframe (4*subcard slots, 2*AC Power Module,3*FAN Box,Port-side Intake)_Hi-Care Basic CE8865-4C_60Month(s)	1	2
	<b>HW-Spine-CE8865-4C_Auxiliary material package-region1</b>			
<b>18</b>	<b>CloudEngine 8800 &amp; XH8000 TOR Switch</b>			<b>2</b>
<b>18.1</b>	<b>Optical Transceiver</b>			
<b>18.1.1</b>	<b>40GE-QSFP+Optical Transceiver</b>			
	QSFP-40G-eSR4	40GBase-eSR4 Optical Transceiver,QSFP+,40G,Multi-mode (850nm,0.3km,MPO)(connecting to one QSFP+ or four SFP+)	2	4
<b>18.2</b>	<b>TOR-Installation Materials</b>			
<b>18.2.1</b>	<b>Optical Connector</b>			
	SS-OP-MPO12-4*DLC-M-15	Optical Cable Assembly,MPO/PC,4*DLC/PC,Multimode(OM3),GJFH 8A1a(LSZH),15m,3.5mm,8 Cores,0mm/12000mm,2mm	2	4
	<b>PS-HCS Assisted O&amp;M Service_region1</b>			
<b>19</b>	<b>HCS O&amp;M Enablement-Exclusive</b>			<b>1</b>
<b>19.1</b>	<b>HCS O&amp;M Service-Exclusive - Regular connection assisted</b>			
	8813032208	HCS-Onsite Service-Basic Cloud Service-Advanced-Man/Day(Service Start Time:Contract activation +90 days, 5year valid)	150	150
		HCS-Assisted O&M-Remote Service-Prevention & Management-Units/Year(Service Start Time:Contract activation +90 days, 5year valid)	60	60
		HCS-Assisted O&M-Remote Service-Basic Cloud Service Version Evolution-Units/Year(Service Start Time:Contract activation +90 days, 5year valid)	60	60
	<b>PS-HCS IaaS Design&amp;IMP_region1</b>			
<b>20</b>	<b>HCS IaaS Design&amp;IMP</b>			<b>1</b>
	IAASPDIS002	Basic Software Planning, Design and Implementation Service	1	1
	IAASPDIS003	Computing Service Planning Design and Implementation Service	1	1
	IAASPDIS005	Network service planning design and implementation service	1	1
	<b>SW-Management Node-HCS Management Storage Software_region1</b>			
<b>21</b>	<b>HCS Management Storage Software</b>			<b>1</b>
<b>21.1</b>	<b>Software</b>			
	SFT-HCS-BL80	Block Storage,Standard Edition Software License,CLOUD Stack Mgmt. Nodes Dedicated,SATA,Available Capacity(1TiB~80TiB),per TiB	27	27
	SNS-HCS-BL802Y	Block Storage,Standard Edition,CLOUD Stack Mgmt. Nodes Dedicated,SATA,Available Capacity(1TiB~80TiB),2 Year Subscription and Support,per TiB	27	27
	SNS-HCS-BL803Y	Block Storage,Standard Edition,CLOUD Stack Mgmt. Nodes Dedicated,SATA,Available Capacity(1TiB~80TiB),3 Year Subscription and Support,per TiB	27	27
	<b>SW-FusionSphere Cloud Suite 8_region1</b>			
<b>22</b>	<b>FusionSphere</b>			<b>1</b>
<b>22.1</b>	<b>FusionSphere 8.x Cloud Suite Software</b>			
	FS0S80CLDH08	IaaS Cloud Platform(with software-based SDN) License,per CPU	12	12
	FS0S80CLDH12	IaaS Cloud Platform(with software-based SDN),Subscription and Support,per CPU(Annual fee validity period : 5 years from" PO signed plus 90 days ")	12	12
	<b>SW-ManageOne 8_region1</b>			

<b>23</b>	<b>ManageOne Solution</b>			<b>1</b>
<b>23.1</b>	<b>ManageOne 8.x Software</b>			
	LDC1MOL08	ManageOne Advanced Edition License.Per Set(Global)	1	1
	LDC1MOL12	ManageOne Advanced Edition-3 Year Subscription and Support,Per Set(Global)(Annual fee validity period : 5 years from" PO signed plus 90 days ")	1	1
	LDC1SCL81	ServiceCenter Advanced Edition License,per CPU	4	4
	LDC1SCL85	ServiceCenter Advanced Edition,3 Year Subscription and Support,per CPU(Annual fee validity period : 5 years from" PO signed plus 90 days ")	4	4
	LDC1OCDL30	OperationCenter Advanced Edition license,per Device	20	20
	LDC1OCAL53	OperationCenter Advanced Edition,3 Year Subscription and Support(Annual fee validity period : 5 years from" PO signed plus 90 days ")	20	20
	<b>Storage-OceanStor Dorado All-Flash Storage Planning Design and Implementation Service(Cross-site quotes)_region1</b>			
<b>24</b>	<b>OceanStor Dorado All-Flash Storage Planning Design and Implementation Service</b>			<b>1</b>
		Solid Storage Hardware Installation Service	1	1
		Solid Storage Planning and Design Service	1	1
		Solid Storage Commissioning Service	1	1
		Solid Storage Acceptance Service	1	1
		Solid Storage Carefree Configuration	1	1

#### 4.3 BOM FOR YEAR 2

No.	Model	Description	Unit Qty.	Qty.
	<b>OceanStor Dorado 5000 V7</b>			
<b>1</b>	<b>OceanStor Dorado 5000</b>			<b>1</b>
<b>1.1</b>	<b>OceanStor Dorado 5000 Main Equipment</b>			
<b>1.1.1</b>	<b>Dual-Controller Unit 1</b>			
	<b>Controller Enclosure</b>			
	D5V7-512G-NVMe	OceanStor Dorado 5000 (2U,Dual Ctrl,NVMe,AC\240V HVDC,512GB Cache,4*100Gb RDMA,36*Palm,SPE63C0236,Applicable to 1.2m-Depth Cabinets,V7)	1	1
	<b>Expanding Interface Module</b>			
	V7S4*10GE	4 ports DPU-Based SmartIO I/O module(SFP+,10Gb ETH)	2	2
	<b>Disk Components</b>			
	D5V7-NVMe15.36	15.36TB SSD NVMe Palm Disk Unit(7")	20	20
<b>1.2</b>	<b>Installation Material</b>			
	SN2F01FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,3m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	8	8
<b>1.3</b>	<b>Software</b>			
	D5V7-LBS-Super	SAN License Bundle (IncludingThin,Snap,Replication,Clone,QoS,Erase,DME IQ,Virtualization,Metro,CDP,Multi-Tenant)	1	1
	D5V7-DDCM-C-SUP-RES2	SmartDedupe & SmartCompression Software License General Edition	1	1
	D5V7-LBS-UltraPath	UltraPath SAN Client License	1	1
<b>1.4</b>	<b>Technical Support Service</b>			
	02356VUF_88134UJL-65H_60	OceanStor Dorado 5000 (2U,Dual Ctrl,NVMe,AC\240V HVDC,512GB Cache,4*100Gb RDMA,36*Palm,SPE63C0236,Applicable to 1.2m-Depth Cabinets,V7)_Hi-Care Standard Dorado 5000 V7 Controller_60Month(s)	1	1
	02551922_88134UJL-68U_60	15.36TB SSD NVMe Palm Disk Unit(7")_Hi-Care Standard Dorado 5000v7 15.36T SSD_60Month(s)	20	20

	8803011346_88134UHK-28B_60	SAN License Bundle (IncludingThin, Snap, Replication, Clone, QoS, Erase, DME IQ, Virtualization, Metro, CDP, Multi-Tenant)_Hi-Care Application Software Upgrade Support Service Dorado 5000 SAN License Bundle_60Month(s)	1	1
	8803011908_88134UHK-28M_60	UltraPath SAN Client License_Hi-Care Application Software Upgrade Support Service Dorado 5000 UltraPath SAN Client License_60Month(s)	1	1
	<b>FusionCube Planning Design and Implementation Service(Cross-site quotes)</b>			
<b>2</b>	<b>FusionCube Planning, Design and Implementation Service</b>			<b>1</b>
		FusionCube 1000(Hypervisor) Hardware Installation Service	1	1
		FusionCube 1000(Hypervisor) Planning and Design Service	1	1
		FusionCube 1000(Hypervisor) System Deployment and Commissioning Service	1	1
		FusionCube 1000(Hypervisor) Acceptance Test Service	1	1
	<b>CLOUD Stack8.x IaaS Cloud Service Training</b>			
<b>3</b>	<b>HCS Product Technical Training</b>			<b>1</b>
<b>3.1</b>	<b>Cloud Computing PTT</b>			
<b>3.1.1</b>	<b>HCS-CLOUD Stack Solution and Typical Cloud Service Training</b>			
	88991YWC	HCS-CLOUD Stack8.x IaaS Cloud Service Training-III- Class/Day-5.0Day	1	1
<b>3.2</b>	<b>HCS Training Service -Board and board tickets</b>			
	88992CGM	HCS-Training Service Trainer Accommodation-Person/Day	6	6
	88992CGN	HCS-Training Service Instructor Round-trip ticket-Per Time	1	1
	<b>CLOUD Stack 8.x Administrator Training_region2</b>			
<b>4</b>	<b>HCS Product Technical Training</b>			<b>1</b>
<b>4.1</b>	<b>Cloud Computing PTT</b>			
<b>4.1.1</b>	<b>CLOUD Stack Solution and Typical Cloud Service Training</b>			
	88991YWD	HCS-CLOUD Stack 8.x Administrator Training-III-Class/Day- 5.0Day	1	1
<b>4.2</b>	<b>HCS Training Service -Board and board tickets</b>			
	88992CGM	HCS-Training Service Trainer Accommodation-Person/Day	6	6
	88992CGN	HCS-Training Service Instructor Round-trip ticket-Per Time	1	1
	<b>SW-eSight 24</b>			
<b>5</b>	<b>eSight</b>			<b>1</b>
<b>5.1</b>	<b>eSight 24(O1 License includes eSight software functions, OLT/ONU software functions)</b>			
	NSHSPLATFM11	Platform	1	1
	NSHSPLATFMS1	Platform, Subscription and Support (Annual fee validity period : 5 years from" PO signed plus 90 days ")	1	1
	NSHSSNWMGR11	Network Management License, 1 Device	16	16
	NSHSSNWMGRS1	Network Management License, Subscription and Support, 1 Device(Annual fee validity period : 5 years from" PO signed plus 90 days ")	16	16
	NSHSSEVMGR11	Server Management License, 1 Device	12	12
	NSHSSEVMGRS1	Server Management License, Subscription and Support, 1 Device(Annual fee validity period : 5 years from" PO signed plus 90 days ")	12	12
	NSHSSTRMGR11	Storage Management License, 1 Device	2	2
	NSHSSTRMGRS1	Storage Management License, Subscription and Support, 1 Device(Annual fee validity period : 5 years from" PO signed plus 90 days ")	2	2
	<b>HCS Host Migration_region2</b>			
<b>6</b>	<b>HCS Host Migration Service</b>			<b>1</b>
	8814266070	HCS-Host-Host Migration Service-per Device	100	100
	<b>IP Network Solution Implementation Service-New build(Cross-site quotes)_region2</b>			

<b>7</b>	<b>IP Network Solution Implementation</b>			<b>1</b>
<b>7.1</b>	<b>Network Commissioning and Integration</b>			
	88142BWA	Formulating the Implementation Solution- "Formulate the implementation solution based on the target network LLD to guide project deployment."	1	1
	88142BXD	Commissioning and Integration- "Based on the target network design solution, perform integrated commissioning of the entire network, complete the target network construction."	1	1
	<b>Network Security Planning and Integration Service(Cross-site quotes)_region2</b>			
<b>8</b>	<b>Network security planning and integration service</b>			<b>1</b>
<b>8.1</b>	<b>Network Security Planning and Integration Service</b>			
		Network security planning and Integration service, Oversea - Analysis of security requirements, design and verification of security architecture, implementation analysis, security configuration analysis, and security policy configuration.Equipment: High-end device(Big Frame) 0 SET; High-end device(Middle Frame) 0 SET; Mid-range device 0 SET; Low-end device(Middle Box) 1 SET; Low-end device(Small Box) 0 SET; Desktop Unit 0 SET; Management Server & Software 0 SET; Project Management: 0 Man-Day;	1	1
	<b>HW-Management Node-HCS 3rd Party Server 8_region2</b>			
<b>9</b>	<b>FusionCube</b>			<b>3</b>
<b>9.1</b>	<b>FusionCube-Stg&amp;Cpt Node(SCNA)</b>			
<b>9.1.1</b>	<b>FusionCube</b>			
	<b>Hyperconverged DP2220</b>			
	<b>DP2220, Basic Configuration</b>			
	FC20DP18Y01	Hyper-converged node-DP2220 (12*3.5" hard disk EXP chassis, 2*C5418Y, 2*GE, 2*10GE, 2*1300W AC) DP2220	1	3
	<b>DP2220, Memory</b>			
	M5288P1R44S56K32	Memory Module,DDR RDIMM Memory,32GB,5600000KHz,1Rank(4G*4bit),1.1V,ECC	8	24
	<b>DP2220, Hard Disk (With 2.5" Front Panel)-SSD/NVME</b>			
	FCV7-SSD960G2S	960GB SSD SAS Disk Unit(2.5")	2	6
	FCV7-SSD-3.2T2P-1	3.2TB SSD NVMe Disk Unit(2.5")	1	3
	<b>DP2220, Hard Disk (With 3.5" Front Panel)-SAS/SATA HDD</b>			
	FCV7-SATA-4T3T	4TB 7.2K RPM SATA Disk Unit(3.5")	8	24
	<b>DP2220-Raid Card</b>			
	RAX95608i4CO	9560-8i RAID Controller,PCIE 4.0 X8 ,4GB cache,RAID 0,1,5,6,10,50,60,Support SuperCap and Sideband Management	1	3
	<b>DP2220, Riser Card</b>			
	DP2216XP5028XP40	2U,1*16X PCIE5.0+2*8X PCIE4.0,RISER1&2 Module	2	6
	DP224X2.5D	Rear PSU 4*2.5 inch Hard Disk Backplane Module(for SAS/NVME)	1	3
	<b>DP2220, PCIe Network Adapter</b>			
	P5U2N120HD35I	HP380 Ethernet Adapter,25GE,Dual-Port,SFP28(without Optical Transceiver),Half-height Half-length,Full Handle bars,PCIE 3.0 x8	2	6
	<b>DP2220, Cables and optical modules</b>			
	SFP-1000BaseT	Electrical Transceiver,SFP,GE,Electrical Interface Module(100m,RJ45)	1	3
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	6	18
	C00SSTC03	Traditional Signal Cable,5m	1	3
<b>9.2</b>	<b>FusionCube,Cabinet</b>			
<b>9.2.1</b>	<b>Optical modules&amp;cables</b>			
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	6	18
<b>9.2.2</b>	<b>Cabinet Auxiliary</b>			

	SN2F10FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,5m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	6	18
<b>9.3</b>	<b>FusionCube-FusionCube Solution Software</b>			
<b>9.3.1</b>	<b>Main Equipment Value-added Package License</b>			
	FC09MGMTST01	Infrastructure Software Management Standard Edition(D),Per CPU	2	6
<b>9.4</b>	<b>Technical Support Service</b>			
	02357AKX_88134UJL-5WB_60	960GB SSD SAS Disk Unit(2.5")_Hi-Care Standard FusionCube 960G SSD_60Month(s)	2	6
	02356TBG_88134UJL-5TV_60	Hyper-converged node-DP2220 (12*3.5" hard disk EXP chassis, 2*C5418Y, 2*GE, 2*10GE, 2*1300W AC) DP2220_Hi-Care StandardFusionCube DP2220-C5xxx_60Month(s)	1	3
	02357EPR_88134UJL-5W8_60	3.2TB SSD NVMe Disk Unit(2.5")_Hi-Care Standard Fusioncube 3.2T-3.84T SSD_60Month(s)	1	3
	<b>HW-Network Node-HCS 3rd Party Server 8_region2</b>			
<b>10</b>	<b>FusionCube</b>			<b>2</b>
<b>10.1</b>	<b>FusionCube,Cpt Node(CNA)</b>			
<b>10.1.1</b>	<b>FusionCube</b>			
	<b>Hyperconverged DP2220</b>			
	<b>DP2220, Basic Configuration</b>			
	FC880707113	Hyper-converged Node-DP2220(8*2.5inch Chassis, 2*C5418Y, 2*GE, 2*10GE, 2*1300W)DP2220	1	2
	<b>DP2220, Memory</b>			
	FCDP20322B6	DDR RDIMM-64GB-288pin-0.357ns-5600000KHz-1.1V-ECC-2Rank(4G*4bit)-B21-AK-X4L,prememtest-crc-load	8	16
	<b>DP2220, Hard Disk (With 2.5" Front Panel)-SSD/NVMe</b>			
	FCV7-SSD-480G2T	480GB SSD SATA Disk Unit(2.5")	2	4
	<b>DP2220-Raid Card</b>			
	RAX95608i4CO	9560-8i RAID Controller,PCIE 4.0 X8 ,4GB cache,RAID 0,1,5,6,10,50,60,Support SuperCap and Sideband Management	1	2
	<b>DP2220, Riser Card</b>			
	DP2216XP5028XP40	2U,1*16X PCIE5.0+2*8X PCIE4.0,RISER1&2 Module	1	2
	<b>DP2220, PCIe Network Adapter</b>			
	P5U2N120HD35I	HP380 Ethernet Adapter,25GE,Dual-Port,SFP28(without Optical Transceiver),Half-height Half-length,Full Handle bars,PCIE 3.0 x8	2	4
	<b>DP2220, Cables and optical modules</b>			
	SFP-1000BaseT	Electrical Transceiver,SFP,GE,Electrical Interface Module(100m,RJ45)	1	2
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	6	12
	C00SSTC03	Traditional Signal Cable,5m	1	2
<b>10.2</b>	<b>FusionCube,Cabinet</b>			
<b>10.2.1</b>	<b>Optical modules&amp;cables</b>			
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	6	12
<b>10.2.2</b>	<b>Cabinet Auxiliary</b>			
	SN2F10FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,5m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	6	12
<b>10.3</b>	<b>FusionCube-FusionCube Solution Software</b>			
<b>10.3.1</b>	<b>Main Equipment Value-added Package License</b>			
	FC09MGMTST01	Infrastructure Software Management Standard Edition(D),Per CPU	2	4
<b>10.4</b>	<b>Technical Support Service</b>			
	02356LMK_88134UJL-5TV_60	Hyper-converged Node-DP2220(8*2.5inch Chassis, 2*C5418Y, 2*GE, 2*10GE, 2*1300W)DP2220_Hi-Care StandardFusionCube DP2220-C5xxx_60Month(s)	1	2

	02357EQC_88134UJL-5W9_60	480GB SSD SATA Disk Unit(2.5")_Hi-Care Standard FusionCube 480G SSD_60Month(s)	2	4
	<b>HW-Computing Node-HCS 3rd Party Server 8_region2</b>			
<b>11</b>	<b>FusionCube</b>			<b>4</b>
<b>11.1</b>	<b>FusionCube,Cpt Node(CNA)</b>			
<b>11.1.1</b>	<b>FusionCube</b>			
	<b>Hyperconverged DP2220</b>			
	<b>DP2220, Basic Configuration</b>			
	FC880707109	Hyper-converged Node-DP2220(8*2.5inch Chassis, 2*C6430, 2*GE, 2*10GE, 2*2000W)DP2220	1	4
	<b>DP2220, Memory</b>			
	FCDP20322B6	DDR RDIMM-64GB-288pin-0.357ns-5600000KHz-1.1V-ECC-2Rank(4G*4bit)-B21-AK-X4L,prememtest-crc-load	8	32
	<b>DP2220, Hard Disk (With 2.5" Front Panel)-SSD/NVMe</b>			
	FCV7-SSD-480G2T	480GB SSD SATA Disk Unit(2.5")	2	8
	<b>DP2220-Raid Card</b>			
	RAX95608i4CO	9560-8i RAID Controller,PCIE 4.0 X8 ,4GB cache,RAID 0,1,5,6,10,50,60,Support SuperCap and Sideband Management	1	4
	<b>DP2220, Riser Card</b>			
	DP2216XP5028XP40	2U,1*16X PCIE5.0+2*8X PCIE4.0,RISER1&2 Module	1	4
	<b>DP2220, PCIe Network Adapter</b>			
	P5U2N120HD35I	HP380 Ethernet Adapter,25GE,Dual-Port,SFP28(without Optical Transceiver),Half-height Half-length,Full Handle bars,PCIE 3.0 x8	2	8
	<b>DP2220, Cables and optical modules</b>			
	SFP-1000BaseT	Electrical Transceiver,SFP,GE,Electrical Interface Module(100m,RJ45)	1	4
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	6	24
	C00SSTC03	Traditional Signal Cable,5m	1	4
<b>11.2</b>	<b>FusionCube,Cabinet</b>			
<b>11.2.1</b>	<b>Optical modules&amp;cables</b>			
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	6	24
<b>11.2.2</b>	<b>Cabinet Auxiliary</b>			
	SN2F10FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,5m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	6	24
<b>11.3</b>	<b>FusionCube-FusionCube Solution Software</b>			
<b>11.3.1</b>	<b>Main Equipment Value-added Package License</b>			
	FC09MGMTST01	Infrastructure Software Management Standard Edition(D),Per CPU	2	8
<b>11.4</b>	<b>Technical Support Service</b>			
	02356LMR_88134UJL-5TY_60	Hyper-converged Node-DP2220(8*2.5inch Chassis, 2*C6430, 2*GE, 2*10GE, 2*2000W)DP2220_Hi-Care StandardFusionCube DP2220-C6xxx_60Month(s)	1	4
	02357EQC_88134UJL-5W9_60	480GB SSD SATA Disk Unit(2.5")_Hi-Care Standard FusionCube 480G SSD_60Month(s)	2	8
	<b>USG6655F(C13_South Africa) V600R024_region2</b>			
<b>12</b>	<b>USG6600E/USG6600F</b>			<b>1</b>
<b>12.1</b>	<b>USG6600E/USG6600F</b>			
	USG6655F-AC	USG6655F-AC(HTM) AC Host(8*GE COMBO + 4*GE RJ45 + 10*10GE SFP+ ,2 AC POWER)	1	1
<b>12.2</b>	<b>Storage Module</b>			
	SSD-SATA960G-D	SSD-SATA960G-D-Solid State Drives	1	1
<b>12.3</b>	<b>Optical Transmitter Module Collection</b>			
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	12	12

<b>12.4</b>	<b>Installation Material</b>			
	E00TSLD00	Extension Guide Rail	1	1
<b>12.5</b>	<b>Unified Security Gateway License Package</b>			
<b>12.5</b>	<b>N1 License Package</b>			
<b>.1</b>	N1-USG6655F-F-Lic	N1-USG6655F Foundation, Per Device	1	1
	N1-USG6655F-F-SnS1Y	N1-USG6655F Foundation, SnS, Per Device, Per Year(Annual fee validity period : 5 years from" PO signed plus 90 days ")	1	1
<b>12.5</b>	<b>IPS-AV-URL-TP License Package</b>			
<b>.2</b>	LIC-USG6655F-TP-1Y-OVS	Threat Protection Subscription Per Year(Applies to USG6655F Overseas)(Annual fee validity period : 5 years from" PO signed plus 90 days ")	1	1
<b>12.6</b>	<b>Technical Support Service</b>			
	02353WAW_88134UFA-68Q_60	USG6655F-AC(HTM) AC Host(8*GE COMBO + 4*GE RJ45 + 10*10GE SFP+ ,2 AC POWER)_Hi-Care Basic USG6655F_60Month(s)	1	1
	<b>HW-Network node Management Service Leaf-CE6855-48XS8CQ(C13_South Africa)_region2</b>			
<b>13</b>	<b>CloudEngine 6800 TOR Switch</b>			<b>2</b>
<b>13.1</b>	<b>CloudEngine 6800-Mainframe</b>			
	CE6855-48XS8CQ-B	CE6855-48XS8CQ switch (48*10GE SFP+, 8*100GE QSFP28, 2*AC Power Modules, 3*Fans, Port-side Intake)	1	2
<b>13.2</b>	<b>Software</b>			
	N1-CE68LIC-CFFD	N1-CloudFabric Foundation SW License for CloudEngine 6800	1	2
	N1-CE68CFFD-SnS1Y	N1-CloudFabric Foundation SW License for CloudEngine 6800-SnS-Year(Annual fee validity period : 5 years from" PO signed plus 90 days ")	1	2
<b>13.3</b>	<b>Optical Transceiver</b>			
<b>13.3</b>	<b>10G-SFP+Optical Transceiver</b>			
<b>.1</b>	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	8	16
<b>13.4</b>	<b>TOR-Installation Materials</b>			
<b>13.4</b>	<b>Optical Connector</b>			
<b>.1</b>	SN2F02FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,10m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	8	16
<b>13.5</b>	<b>Technical Support Service</b>			
	02355KTK_88134UFA-2LM_60	CE6855-48XS8CQ switch (48*10GE SFP+, 8*100GE QSFP28, 2*AC Power Modules, 3*Fans, Port-side Intake)_Hi-Care Basic CE6855-48XS8CQ_60Month(s)	1	2
	<b>HW-Compute/Storage Node Leaf-CE6855-48XS8CQ(C13_South Africa)_region2</b>			
<b>14</b>	<b>CloudEngine 6800 TOR Switch</b>			<b>2</b>
<b>14.1</b>	<b>CloudEngine 6800-Mainframe</b>			
	CE6855-48XS8CQ-B	CE6855-48XS8CQ switch (48*10GE SFP+, 8*100GE QSFP28, 2*AC Power Modules, 3*Fans, Port-side Intake)	1	2
<b>14.2</b>	<b>Software</b>			
	N1-CE68LIC-CFFD	N1-CloudFabric Foundation SW License for CloudEngine 6800	1	2
	N1-CE68CFFD-SnS1Y	N1-CloudFabric Foundation SW License for CloudEngine 6800-SnS-Year(Annual fee validity period : 5 years from" PO signed plus 90 days ")	1	2
<b>14.3</b>	<b>Optical Transceiver</b>			
<b>14.3</b>	<b>10G-SFP+Optical Transceiver</b>			
<b>.1</b>	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	28	56
<b>14.4</b>	<b>TOR-Installation Materials</b>			
<b>14.4</b>	<b>Optical Connector</b>			
<b>.1</b>	SN2F02FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,10m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	28	56

<b>14.5</b>	<b>Technical Support Service</b>			
	02355KTK_88134UFA-2LM_60	CE6855-48XS8CQ switch (48*10GE SFP+, 8*100GE QSFP28, 2*AC Power Modules, 3*Fans, Port-side Intake)_Hi-Care Basic CE6855-48XS8CQ_60Month(s)	1	2
	<b>HW-Management Leaf-CE6855-48XS8CQ(C13_South Africa)_region2</b>			
<b>15</b>	<b>CloudEngine 6800 TOR Switch</b>			<b>2</b>
<b>15.1</b>	<b>CloudEngine 6800-Mainframe</b>			
	CE6855-48XS8CQ-B	CE6855-48XS8CQ switch (48*10GE SFP+, 8*100GE QSFP28, 2*AC Power Modules, 3*Fans, Port-side Intake)	1	2
<b>15.2</b>	<b>Software</b>			
	N1-CE68LIC-CFFD	N1-CloudFabric Foundation SW License for CloudEngine 6800	1	2
	N1-CE68CFFD-SnS1Y	N1-CloudFabric Foundation SW License for CloudEngine 6800-SnS-Year(Annual fee validity period : 5 years from" PO signed plus 90 days ")	1	2
<b>15.3</b>	<b>Optical Transceiver</b>			
<b>15.3</b>	<b>10G-SFP+Optical Transceiver</b>			
<b>.1</b>	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	10	20
<b>15.4</b>	<b>TOR-Installation Materials</b>			
<b>15.4</b>	<b>Optical Connector</b>			
<b>.1</b>	SN2F02FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,10m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	10	20
<b>15.5</b>	<b>Technical Support Service</b>			
	02355KTK_88134UFA-2LM_60	CE6855-48XS8CQ switch (48*10GE SFP+, 8*100GE QSFP28, 2*AC Power Modules, 3*Fans, Port-side Intake)_Hi-Care Basic CE6855-48XS8CQ_60Month(s)	1	2
	<b>HW-BMC TOR switch-CE5855-48T4XS(C13_South Africa)_region2</b>			
<b>16</b>	<b>CloudEngine 5800 TOR Switch</b>			<b>2</b>
<b>16.1</b>	<b>CloudEngine 5800-Mainframe</b>			
	CE5855-48T4XS-B	CE5855-48T4XS switch (48*GE RJ45, 4*10GE SFP, 2*AC Power Modules, Built-in Fans, Port-side Intake)	1	2
<b>16.2</b>	<b>Optical Transceiver</b>			
<b>16.2</b>	<b>GE-SFP Optical Transceiver</b>			
<b>.1</b>	SFP-1000BaseT-G2	Electrical Transceiver,SFP,GE,Electrical Interface Module(100m,RJ45)	17	34
<b>16.2</b>	<b>10G-SFP+Optical Transceiver</b>			
<b>.2</b>	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	4	8
<b>16.3</b>	<b>TOR-Installation Materials</b>			
<b>16.3</b>	<b>Optical Connector</b>			
<b>.1</b>	SN2F02FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,10m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	4	8
<b>16.4</b>	<b>Technical Support Service</b>			
	98012222_88134UFA-487_60	CE5855-48T4XS switch (48*GE RJ45, 4*10GE SFP, 2*AC Power Modules, Built-in Fans, Port-side Intake)_Hi-Care Basic CE5855-48T4XS_60Month(s)	1	2
	<b>HW-Spine-CE8865-4C_1(C13_South Africa)_region2</b>			
<b>17</b>	<b>CloudEngine 8800 &amp; XH8000 TOR Switch</b>			<b>2</b>
<b>17.1</b>	<b>CloudEngine 8800 Mainframe</b>			
	CE8865-4C-B	CE8865-4C mainframe (4*subcard slots, 2*AC Power Module,3*FAN Box,Port-side Intake)	1	2
<b>17.2</b>	<b>CloudEngine 8800 Interface Card</b>			
	CE88-D16CQ-H	CE8865:16 Port 100GE QSFP28 Interface Card(CM)	2	4
	CE88-D24T2CQ-H	CE8865:24 Port 10GE Base-T and 2 Port 100GE QSFP28 Interface Card(CM)	1	2
<b>17.3</b>	<b>Software</b>			

	N1-CE88LIC-CFFD	N1-CloudFabric Foundation SW License for CloudEngine 8800	1	2
	N1-CE88CFFD-SnS1Y	N1-CloudFabric Foundation SW License for CloudEngine 8800-SnS-Year(Annual fee validity period : 5 years from" PO signed plus 90 days ")	1	2
<b>17.4</b>	<b>Optical Transceiver</b>			
<b>17.4</b> <b>.1</b>	<b>40GE-QSFP+Optical Transceiver</b>			
	QSFP-40G-eSR4	40GBase-eSR4 Optical Transceiver,QSFP+,40G,Multi-mode (850nm,0.3km,MPO)(connecting to one QSFP+ or four SFP+)	10	20
<b>17.5</b>	<b>TOR-Installation Materials</b>			
<b>17.5</b> <b>.1</b>	<b>Optical Connector</b>			
	SS-OP-D-MPO12-M-15	Optical Cable Parts,MPO/PC,MPO/PC,MULTI-MODE,15m,8 CORES,0m/0m,GJFH-8A1A.2(OM3),3.5MM,LSZH,60mm MPO,Bending insensitive	10	20
<b>17.6</b>	<b>Technical Support Service</b>			
	02355RTB_88134UFA-5RM_60	CE8865-4C mainframe (4*subcard slots, 2*AC Power Module,3*FAN Box,Port-side Intake)_Hi-Care Basic CE8865-4C_60Month(s)	1	2
	<b>HW-Spine-CE8865-4C_Auxiliary material package-region2</b>			
<b>18</b>	<b>CloudEngine 8800 &amp; XH8000 TOR Switch</b>			<b>2</b>
<b>18.1</b>	<b>Optical Transceiver</b>			
<b>18.1</b> <b>.1</b>	<b>40GE-QSFP+Optical Transceiver</b>			
	QSFP-40G-eSR4	40GBase-eSR4 Optical Transceiver,QSFP+,40G,Multi-mode (850nm,0.3km,MPO)(connecting to one QSFP+ or four SFP+)	2	4
<b>18.2</b>	<b>TOR-Installation Materials</b>			
<b>18.2</b> <b>.1</b>	<b>Optical Connector</b>			
	SS-OP-MPO12-4*DLC-M-15	Optical Cable Assembly,MPO/PC,4*DLC/PC,Multimode(OM3),GJFH 8A1a(LSZH),15m,3.5mm,8 Cores,0mm/12000mm,2mm	2	4
	<b>PS-HCS Assisted O&amp;M Service_region2</b>			
<b>19</b>	<b>HCS O&amp;M Enablement-Exclusive</b>			<b>1</b>
<b>19.1</b>	<b>HCS O&amp;M Service-Exclusive - Regular connection assisted</b>			
	8813032208	HCS-Onsite Service-Basic Cloud Service-Advanced-Man/Day(Service Start Time:Contract activation +90 days, 5year valid)	150	150
		HCS-Assisted O&M-Remote Service-Prevention & Management-Units/Year(Service Start Time:Contract activation +90 days, 5year valid)	60	60
		HCS-Assisted O&M-Remote Service-Basic Cloud Service Version Evolution-Units/Year(Service Start Time:Contract activation +90 days, 5year valid)	60	60
	<b>PS-HCS IaaS Design&amp;IMP_region2</b>			
<b>20</b>	<b>HCS IaaS Design&amp;IMP</b>			<b>1</b>
	IAASPDIS002	Basic Software Planning, Design and Implementation Service	1	1
	IAASPDIS003	Computing Service Planning Design and Implementation Service	1	1
	IAASPDIS005	Network service planning design and implementation service	1	1
	<b>SW-Management Node-HCS Management Storage Software_region2</b>			
<b>21</b>	<b>HCS Management Storage Software</b>			<b>1</b>
<b>21.1</b>	<b>Software</b>			
	SFT-HCS-BL80	Block Storage,Standard Edition Software License,CLOUD Stack Mgmt. Nodes Dedicated,SATA,Available Capacity(1TiB~80TiB),per TiB	27	27

	SNS-HCS-BL802Y	Block Storage,Standard Edition,CLOUD Stack Mgmt. Nodes Dedicated,SATA,Available Capacity(1TiB~80TiB),2 Year Subscription and Support,per TiB	27	27
	SNS-HCS-BL803Y	Block Storage,Standard Edition,CLOUD Stack Mgmt. Nodes Dedicated,SATA,Available Capacity(1TiB~80TiB),3 Year Subscription and Support,per TiB	27	27
	<b>SW-FusionSphere Cloud Suite 8_region2</b>			
<b>22</b>	<b>FusionSphere</b>			<b>1</b>
<b>22.1</b>	<b>FusionSphere 8.x Cloud Suite Software</b>			
	FS0S80CLDH08	IaaS Cloud Platform(with software-based SDN) License,per CPU	12	12
	FS0S80CLDH12	IaaS Cloud Platform(with software-based SDN),Subscription and Support,per CPU(Annual fee validity period : 5 years from" PO signed plus 90 days ")	12	12
	<b>SW-ManageOne 8_region2</b>			
<b>23</b>	<b>ManageOne Solution</b>			<b>1</b>
<b>23.1</b>	<b>ManageOne 8.x Software</b>			
	LDC1MOL08	ManageOne Advanced Edition License.Per Set(Global)	1	1
	LDC1MOL12	ManageOne Advanced Edition-3 Year Subscription and Support,Per Set(Global)(Annual fee validity period : 5 years from" PO signed plus 90 days ")	1	1
	LDC1SCL81	ServiceCenter Advanced Edition License,per CPU	4	4
	LDC1SCL85	ServiceCenter Advanced Edition,3 Year Subscription and Support,per CPU(Annual fee validity period : 5 years from" PO signed plus 90 days ")	4	4
	LDC1OCDL30	OperationCenter Advanced Edition license,per Device	20	20
	LDC1OCAL53	OperationCenter Advanced Edition,3 Year Subscription and Support(Annual fee validity period : 5 years from" PO signed plus 90 days ")	20	20
	<b>Storage-OceanStor Dorado All-Flash Storage Planning Design and Implementation Service(Cross-site quotes)_region2</b>			
<b>24</b>	<b>OceanStor Dorado All-Flash Storage Planning Design and Implementation Service</b>			<b>1</b>
		Solid Storage Hardware Installation Service	1	1
		Solid Storage Planning and Design Service	1	1
		Solid Storage Commissioning Service	1	1
		Solid Storage Acceptance Service	1	1
		Solid Storage Carefree Configuration	1	1

#### 4.4 BOM FOR YEAR 3

No.	Model	Description	Unit Qty.	Qty.
	<b>FusionCube Planning Design and Implementation Service(Cross-site quotes)</b>			
<b>1</b>	<b>FusionCube Planning, Design and Implementation Service</b>			<b>1</b>
		FusionCube 1000(Hypervisor) Hardware Installation Service	1	1
		FusionCube 1000(Hypervisor) Planning and Design Service	1	1
		FusionCube 1000(Hypervisor) System Deployment and Commissioning Service	1	1
		FusionCube 1000(Hypervisor) Acceptance Test Service	1	1
	<b>Disaster Recovery and Backup Service(In-site quotes)_region1</b>			
<b>2</b>	<b>Disaster Recovery and Backup Service</b>			<b>1</b>
<b>2.1</b>	<b>OceanProtect mid-range Backup Appliance planning, design, and implementation</b>			
		OceanProtect mid-range Backup Appliance planning, design, and implementation	1	1
		OceanProtect Backup Appliance Scenario-based Backup Service	1	1
	<b>Disaster Recovery and Backup Service(In-site quotes)_region2</b>			

<b>3</b>	<b>Disaster Recovery and Backup Service</b>			<b>1</b>
<b>3.1</b>	<b>OceanProtect mid-range Backup Appliance planning, design, and implementation</b>			
		OceanProtect mid-range Backup Appliance planning, design, and implementation	1	1
		OceanProtect Backup Appliance Scenario-based Backup Service	1	1
	<b>HW-OceanProtect Proxy Node-HCS 3rd Party Server 8</b>			
<b>4</b>	<b>FusionCube</b>			<b>4</b>
<b>4.1</b>	<b>FusionCube,Cpt Node(CNA)</b>			
<b>4.1.1</b>	<b>FusionCube</b>			
	<b>Hyperconverged DP2220</b>			
	<b>DP2220, Basic Configuration</b>			
	FC880707109	Hyper-converged Node-DP2220(8*2.5inch Chassis, 2*C6430, 2*GE, 2*10GE, 2*2000W)DP2220	1	4
	<b>DP2220, Memory</b>			
	FCDP20322B6	DDR RDIMM-64GB-288pin-0.357ns-5600000KHz-1.1V-ECC-2Rank(4G*4bit)-B21-AK-X4L,prememtest-crc-load	8	32
	<b>DP2220, Hard Disk (With 2.5" Front Panel)-SSD/NVMe</b>			
	FCV7-SSD-480G2T	480GB SSD SATA Disk Unit(2.5")	2	8
	<b>DP2220-Raid Card</b>			
	RAX95608i4CO	9560-8i RAID Controller,PCIE 4.0 X8 ,4GB cache,RAID 0,1,5,6,10,50,60,Support SuperCap and Sideband Management	1	4
	<b>DP2220, Riser Card</b>			
	DP2216XP5028XP40	2U,1*16X PCIE5.0+2*8X PCIE4.0,RISER1&2 Module	1	4
	<b>DP2220, PCIe Network Adapter</b>			
	P5U2N120HD35I	HP380 Ethernet Adapter,25GE,Dual-Port,SFP28(without Optical Transceiver),Half-height Half-length,Full Handle bars,PCIE 3.0 x8	2	8
	<b>DP2220, Cables and optical modules</b>			
	SFP-1000BaseT	Electrical Transceiver,SFP,GE,Electrical Interface Module(100m,RJ45)	1	4
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	6	24
	C00SSTC03	Traditional Signal Cable,5m	1	4
<b>4.2</b>	<b>FusionCube,Cabinet</b>			
<b>4.2.1</b>	<b>Optical modules&amp;cables</b>			
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	6	24
<b>4.2.2</b>	<b>Cabinet Auxiliary</b>			
	SN2F10FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,5m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	6	24
<b>4.3</b>	<b>FusionCube-FusionCube Solution Software</b>			
<b>4.3.1</b>	<b>Main Equipment Value-added Package License</b>			
	FC09MGMTST01	Infrastructure Software Management Standard Edition(D),Per CPU	2	8
<b>4.4</b>	<b>Technical Support Service</b>			
	02356LMR_88134UJL-5TY_60	Hyper-converged Node-DP2220(8*2.5inch Chassis, 2*C6430, 2*GE, 2*10GE, 2*2000W)DP2220_Hi-Care StandardFusionCube DP2220-C6xxx_60Month(s)	1	4
	02357EQC_88134UJL-5W9_60	480GB SSD SATA Disk Unit(2.5")_Hi-Care Standard FusionCube 480G SSD_60Month(s)	2	8
	<b>PS-HCS Cloud BC&amp;DR ProServ(In-site quotes)_region1</b>			
<b>5</b>	<b>HCS-Disaster Recovery and Backup Service</b>			<b>1</b>
<b>5.1</b>	<b>HCS-Disaster Backup Planning Design and Implementation</b>			
	8814067221	HCS-CSBS&VBS-Planning, Design & Implementation Service-One-off,18 CPU	1	1
	<b>PS-HCS Cloud BC&amp;DR ProServ(In-site quotes)_region2</b>			
<b>6</b>	<b>HCS-Disaster Recovery and Backup Service</b>			<b>1</b>
<b>6.1</b>	<b>HCS-Disaster Backup Planning Design and Implementation</b>			
	8814067221	HCS-CSBS&VBS-Planning, Design & Implementation Service-One-off,18 CPU	1	1
	<b>HW-General Leaf-CE6855-48XS8CQ(C13_South Africa)</b>			

<b>7</b>	<b>CloudEngine 6800 TOR Switch</b>			<b>2</b>
<b>7.1</b>	<b>CloudEngine 6800-Mainframe</b>			
	CE6855-48XS8CQ-B	CE6855-48XS8CQ switch (48*10GE SFP+, 8*100GE QSFP28, 2*AC Power Modules, 3*Fans, Port-side Intake)	1	2
<b>7.2</b>	<b>Software</b>			
	N1-CE68LIC-CFFD	N1-CloudFabric Foundation SW License for CloudEngine 6800	1	2
	N1-CE68CFFD-SnS1Y	N1-CloudFabric Foundation SW License for CloudEngine 6800-SnS-Year(Annual fee validity period : 5 years from" PO signed plus 90 days ")	1	2
<b>7.3</b>	<b>Optical Transceiver</b>			
<b>7.3.1</b>	<b>GE-SFP Optical Transceiver</b>			
	SFP-1000BaseT-G2	Electrical Transceiver,SFP,GE,Electrical Interface Module(100m,RJ45)	1	2
<b>7.3.2</b>	<b>10G-SFP+Optical Transceiver</b>			
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	12	24
<b>7.3.3</b>	<b>40GE-QSFP+Optical Transceiver</b>			
	QSFP-40G-eSR4	40GBase-eSR4 Optical Transceiver,QSFP+,40G,Multi-mode (850nm,0.3km,MPO)(connecting to one QSFP+ or four SFP+)	4	8
<b>7.4</b>	<b>TOR-Installation Materials</b>			
<b>7.4.1</b>	<b>Optical Connector</b>			
	SS-OP-D-MPO12-M-15	Optical Cable Parts,MPO/PC,MPO/PC,MULTI-MODE,15m,8 CORES,0m/0m,GJFH-8A1A.2(OM3),3.5MM,LSZH,60mm MPO,Bending insensitive	4	8
	SN2F02FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,10m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	12	24
<b>7.5</b>	<b>Technical Support Service</b>			
	02355KTK_88134UFA-2LM_60	CE6855-48XS8CQ switch (48*10GE SFP+, 8*100GE QSFP28, 2*AC Power Modules, 3*Fans, Port-side Intake)_Hi-Care Basic CE6855-48XS8CQ_60Month(s)	1	2
	<b>HW-External access TOR-CE6855-48XS8CQ(C13_South Africa)</b>			
<b>8</b>	<b>CloudEngine 6800 TOR Switch</b>			<b>2</b>
<b>8.1</b>	<b>CloudEngine 6800-Mainframe</b>			
	CE6855-48XS8CQ-B	CE6855-48XS8CQ switch (48*10GE SFP+, 8*100GE QSFP28, 2*AC Power Modules, 3*Fans, Port-side Intake)	1	2
<b>8.2</b>	<b>Software</b>			
	N1-CE68LIC-CFFD	N1-CloudFabric Foundation SW License for CloudEngine 6800	1	2
	N1-CE68CFFD-SnS1Y	N1-CloudFabric Foundation SW License for CloudEngine 6800-SnS-Year(Annual fee validity period : 5 years from" PO signed plus 90 days ")	1	2
<b>8.3</b>	<b>Optical Transceiver</b>			
<b>8.3.1</b>	<b>10G-SFP+Optical Transceiver</b>			
	OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	2	4
<b>8.3.2</b>	<b>40GE-QSFP+Optical Transceiver</b>			
	QSFP-40G-eSR4	40GBase-eSR4 Optical Transceiver,QSFP+,40G,Multi-mode (850nm,0.3km,MPO)(connecting to one QSFP+ or four SFP+)	4	8
<b>8.4</b>	<b>TOR-Installation Materials</b>			
<b>8.4.1</b>	<b>Optical Connector</b>			
	SS-OP-D-MPO12-M-15	Optical Cable Parts,MPO/PC,MPO/PC,MULTI-MODE,15m,8 CORES,0m/0m,GJFH-8A1A.2(OM3),3.5MM,LSZH,60mm MPO,Bending insensitive	4	8
	SN2F02FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,10m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	2	4
<b>8.5</b>	<b>Technical Support Service</b>			
	02355KTK_88134UFA-2LM_60	CE6855-48XS8CQ switch (48*10GE SFP+, 8*100GE QSFP28, 2*AC Power Modules, 3*Fans, Port-side Intake)_Hi-Care Basic CE6855-48XS8CQ_60Month(s)	1	2
	<b>HW-Outbound Area 1/Service Zone Backup Storage-OceanProtect X6000 Appliance</b>			
<b>9</b>	<b>OceanProtect X6000 Appliance</b>			<b>2</b>
<b>9.1</b>	<b>OceanProtect X6000 Main Equipment</b>			
<b>9.1.1</b>	<b>Dual-Controller Unit 1</b>			
	<b>All-Flash Controller Enclosure</b>			

	X6512G2CN36DAC-EUBF	OceanProtect X6000(2U,Dual Ctrl,All-Flash,NVMe,AC/240V HVDC,512GB cache,4*100Gb RDMA,36*Palm,SPE63C0236,Applicable to 1.2m-Depth Cabinets)	1	2
	<b>Expansion Interface Module</b>			
	SMARTIO4*10E-LL	4 ports SmartIO I/O module(SFP+,10Gb ETH)	6	12
	<b>Disk Components</b>			
	OP-SSDNVMe-15.36TD	15.36TB Capacity-Optimized SSD NVMe Palm Disk Unit(7")	14	28
<b>9.2</b>	<b>Installation Material</b>			
	SN2F01FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,3m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	24	48
<b>9.3</b>	<b>Software</b>			
	LICX6000SW-QY	Backup Storage Essential Capacity License Enhanced Edition(including 40 TB capacity license)	1	2
	LICX6000DD1TBS-QY	Backup Storage Capacity License Enhanced Edition(41~300TB)	176	352
	LICX6DBCTB-CSBS	Data Backup Capacity License-CSBS(Per TiB)	128	256
<b>9.4</b>	<b>Technical Support Service</b>			
	88039LSM_88134UHK-1UD_60	Backup Storage Capacity License Enhanced Edition(41~300TB)_Hi-Care Application Software Upgrade Support Service OceanProtect X6000-Dedicated Backup Storage Software Capacity License (41~300 TB)_60Month(s)	176	352
	88038WNT_88134UHK-1W8_60	Data Backup Capacity License-CSBS(Per TiB)_Hi-Care Application Software Upgrade Support Service Data backup capacity license-CSBS/VBS (per TiB)_60Month(s)	128	256
	02356BBN_88134UJL-5E9_60	OceanProtect X6000(2U,Dual Ctrl,All-Flash,NVMe,AC/240V HVDC,512GB cache,4*100Gb RDMA,36*Palm,SPE63C0236,Applicable to 1.2m-Depth Cabinets)_Hi-Care Standard OceanProtect X6000 Engine(Dual Ctrl)_60Month(s)	1	2
	88039LSH_88134UHK-1LP_60	Backup Storage Essential Capacity License Enhanced Edition(including 40 TB capacity license)_Hi-Care Application Software Upgrade Support Service OceanProtect X6000 Dedicated Backup Storage Software Essential License(including 40 TB capacity license)_60Month(s)	1	2
	02356SHA_88134UJL-5R8_60	15.36TB Capacity-Optimized SSD NVMe Palm Disk Unit(7")_Hi-Care Standard OceanProtect 15.36T Capacity SSD_60Month(s)	14	28

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