

## Příloha č. 1: Bližší specifikace předmětu koupě

### Servery pro virtualizaci (VMW) – 9ks

Specifikace jednoho ks serveru

Servery pro virtualizaci (VMW)			Ks v jednotce
<b>Huawei RH2288H V3</b>			
<b>Base Configuration</b>			
02311GHE	BC1M30HGSA	RH2288H V3 (8HDD Passthrough Chassis) H22H-03 For oversea(except Japan)	1
02311CXH	BC2MFGEC	SM212 Onboard NIC,4xGE Electrical Interface(I350),RJ45	1
02310YKP	BC1M03FANA	8056 Plus Fan module	4
02310QWX	EN3MCACC	750W Platinum AC Power Module	2
<b>Broadwell EP CPU</b>			
02311NEY	BC1M64CPU	Intel Xeon E5-2690 v4(2.6GHz/14-core/35MB/135W) Processor (with heatsink)	2
<b>DDR4 Memory</b>			
06200214	N24DDR403	DDR4 RDIMM Memory,32GB,2400MT/s,2Rank(2G*4bit),1.2V,ECC	24
<b>Hard Disk(include Front Panel)</b>			
02311HAH	N400SSDSW2	SSD,400GB,SAS 12Gb/s,Write Intensive,Sunset Cove Plus Series,2.5inch(2.5inch Drive Bay),ME Series	2
<b>RAID Card and Other Accessories</b>			
02310YMH	BC1M03ESML	SR430C 2GB Cache(LSI3108)-Board ID 0X2d-RAID0,1,5,6,10,50,60-Support SuperCap+850mm MiniSAS HD Cable Moudle(8_10 HDD Chassis)	1
02311BNX	BC1M02TFM	LSI Flash Card,8GB,TFM,Supercap and 620mm Cable Moudle	1
<b>PCIe Card</b>			
02311EUX	CN2ITGAA20	Ethernet Adapter,10Gb Optical Interface(Intel 82599),2-Port,SFP+(with 2x Multi-mode Optical Transceiver),PCIe 2.0 x8	1
06030276	NS16GOLC01	EMULEX,FC HBA,16Gb,2-Port,SFP+(with 2x Multi-mode Optical Transceiver),PCIe 3.0 x8	1
<b>Cables and Optional Equipments</b>			
21241258	E2USRIL01	2U Ball Bearing Rail Kit	1
21241259	B1U2UCMA	1U/2U Cable Management Arm	1
<b>Technical Support Service</b>			
88134ULF	02311GHE-88134ULF-3	RH2288H V3 (8HDD Passthrough Chassis) H22H-03 For oversea(except Japan)-Hi-Care Onsite Premier 24x7x4H Engineer Onsite Service-3Year(s)	1

## Disková pole – 2ks

Specifikace jednoho ks diskového pole

Part Number	Model	Description	Qty
<b>Huawei OceanStor 5800 V3</b>			
<b>OceanStor 5800 V3 Main Equipment</b>			
<b>Dual-Controller Unit 1</b>			
<b>Controller Enclosure</b>			
02350UHH	5800V3-256E-AC	5800 V3(3U,Dual Ctrl,AC,256GB,SPE62C0300),Enhanced Version	1
<b>Expanding Interface Module</b>			
03022JTQ	LPU4ACCV3	Smart ACC module(De-dup,Compression)	2
03056794	SMARTIO10ETH	4 port SmartIO I/O module(SFP+,10Gb Eth/FCoE(VN2VF)/Scale-out)	2
03056795	SMARTIO16FC	4 port SmartIO I/O module(SFP+,16Gb FC)	2
03022PFJ	LPU4S12V3	4 port 4*12Gb SAS I/O module(MiniSAS HD)	2
<b>Disk Components</b>			
02350LHE	SSDM-600G2S-A1	600GB SSD SAS Disk Unit(2.5")	48
<b>Disk Enclosure</b>			
02359806	DAE22525U2-1-AC	Disk Enclosure(2U,AC,2.5",Expanding Module,25 Disk Slots,without Disk Unit,DAE22525U2)	2
<b>Dual-Controller Unit 2</b>			
<b>Controller Enclosure</b>			
02350UHH	5800V3-256E-AC	5800 V3(3U,Dual Ctrl,AC,256GB,SPE62C0300),Enhanced Version	1
<b>Expanding Interface Module</b>			
03022JTQ	LPU4ACCV3	Smart ACC module(De-dup,Compression)	2
03056794	SMARTIO10ETH	4 port SmartIO I/O module(SFP+,10Gb Eth/FCoE(VN2VF)/Scale-out)	2
03056795	SMARTIO16FC	4 port SmartIO I/O module(SFP+,16Gb FC)	2
03022PFJ	LPU4S12V3	4 port 4*12Gb SAS I/O module(MiniSAS HD)	2
<b>Disk Components</b>			
02350LHE	SSDM-600G2S-A1	600GB SSD SAS Disk Unit(2.5")	48
<b>Disk Enclosure</b>			
02359806	DAE22525U2-1-AC	Disk Enclosure(2U,AC,2.5",Expanding Module,25 Disk Slots,without Disk Unit,DAE22525U2)	2
<b>Installation Material</b>			
14130858	SN2F01FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,3m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	32
04050699	HS-SAS-5-01	High Speed Cable,Mini SAS HD Cable,5m,(SFF 8644 Plug),(26AWG*4P*2B(S)),(SFF 8644 Plug),Indoor use	2
<b>System Software</b>			
<b>Basic Software License for Block(Include Device Management,SmartThin,SmartMulti-tenant,SmartMigration,SmartErase,SmartMotion,Cloud Service,SystemReporter)</b>			
88032NMQ	LIC-5800V3-BS	Basic Software License for Block(Include Device Management,SmartThin,SmartMulti-tenant,SmartMigration,SmartErase,SmartMotion,Cloud Service,SystemReporter)	1
<b>HyperSnap License</b>			
88032KMY	LIC-5800V3-SNAP	HyperSnap License	1

<b>HyperClone License</b>			
88032KNB	LIC-5800V3-CLON	HyperClone License	1
<b>HyperReplication License</b>			
88032KNC	LIC-5800V3-REP	HyperReplication License	1
<b>SmartDedupe &amp; SmartCompression(for LUN)</b>			
88032RGW	LIC-5800V3-CD	SmartDedupe & SmartCompression(for LUN)	1
<b>OceanStor HW UltraPath Software License</b>			
88032KNK	LIC-5800V3-PATH	OceanStor HW UltraPath Software License	1
02350MQE	LIC-V3-BCManager	OceanStor BCManager Software	1
<b>Technical Support Service</b>			
88134ULF	02350UHJ-88134ULF-3	5800 V3(3U,Dual Ctrl,AC,256GB,SPE62C0300),Enhanced Version-Hi-Care Onsite Premier 24x7x4H Engineer Onsite Service-3Year(s)	2
88134ULF	02359806-88134ULF-3	Disk Enclosure(2U,AC,2.5",Expanding Module,25 Disk Slots,without Disk Unit,DAE22525U2)-Hi-Care Onsite Premier 24x7x4H Engineer Onsite Service-3Year(s)	4
88134UHK	88032KMY-88134UHK-3	HyperSnap License-Hi-Care Application Software Upgrade Support Service-3Year(s)	1
88134UHK	88032KNB-88134UHK-3	HyperClone License-Hi-Care Application Software Upgrade Support Service-3Year(s)	1
88134UHK	88032KNC-88134UHK-3	HyperReplication License-Hi-Care Application Software Upgrade Support Service-3Year(s)	1
88134UHK	88032KNK-88134UHK-3	OceanStor HW UltraPath Software License-Hi-Care Application Software Upgrade Support Service-3Year(s)	1
88134UHK	88032NMQ-88134UHK-3	Basic Software License for Block(Include Device Management, SmartThin, SmartMulti-tenant, SmartMigration, SmartErase, SmartMotion, Cloud Service, SystemReporter)-Hi-Care Application Software Upgrade Support Service-3Year(s)	1
88134UHK	88032RGW-88134UHK-3	SmartDedupe & SmartCompression(for LUN)-Hi-Care Application Software Upgrade Support Service-3Year(s)	1

## Switche SAN - 2 ks

Specifikace jednoho ks SAN switche

Katalogové č.	Kusů	Popis
DS-C9148S-D12PSK9	1	MDS 9148S 16G FC switch, w/ 12 active ports + 16G SW SFPs
DS-SFP-FC16G-SW	12	16 Gbps Fibre Channel SW SFP+, LC
DS-9148S-KIT-CSCO	1	MDS 9148S Accessory Kit for Cisco
M9148S-DPL12PSG	1	MDS 9148S 16G FC 12-port upgrade license + 16G SW SFPs
CAB-C15-CBN	2	Cabinet Jumper Power Cord, 250 VAC 13A, C14-C15 Connectors
DS-SFP-FC16G-SW	12	16 Gbps Fibre Channel SW SFP+, LC
M9148S-PL12	1	MDS 9148S 16G FC 12-port upgrade license
M91S5K9-7.3.0	1	MDS 9100 Supervisor/Fabric-5, NX-OS Software Release 7.3.0
L-M91ENTDCNMX-K9=	1	Enterprise+DCNM SAN (device-based): MDS 9100, e-delivery
<b>Servisní podpora</b>		
CON-SNTP-C48S	1	Servisní podpora 24x7x4 - 3.roky
CON-SAU-91DCMX	1	Servisní podpora 24x7x4 - 3.roky

## Servery pro zálohování – 2ks

Specifikace jednoho ks serveru

Servery pro zálohování			Ks v jednotce
<b>Huawei RH2288H V3</b>			
<b>Base Configuration</b>			
02311GHQ	BC5M20HGSA	RH2288H V3 (25HDD EXP Chassis)H22H-03 For oversea(except Japan)	1
02311EUU	BC1M01FXEB02	SM231 Onboard NIC,2x10GE Optical Interface(Intel 82599),SFP+(with 2x Multi-mode Optical Transceiver)	1
02310YKN	BC1M02FANA	8056 Fan module	4
02310QWX	EN3MCACC	750W Platinum AC Power Module	2
<b>Broadwell EP CPU</b>			
02311NES	BC1M58CPU	Intel Xeon E5-2650 v4(2.2GHz/12-core/30MB/105W) Processor (with heatsink)	2
<b>DDR4 Memory</b>			
06200214	N24DDR403	DDR4 RDIMM Memory,32GB,2400MT/s,2Rank(2G*4bit),1.2V,EC C	16
<b>Hard Disk(include Front Panel)</b>			
02311HAL	N900S1210W2	HDD,900GB,SAS 12Gb/s,10K rpm,128MB or above,2.5inch(2.5inch Drive Bay)	6
02311HAG	N800SSDSW2	SSD,800GB,SAS 12Gb/s,Write Intensive,2.5inch(2.5inch Drive Bay),ME Series	6
<b>RAID Card and Other Accessories</b>			
02310YMF	BC1M07ESML	SR430C 2GB Cache(LSI3108)-Board ID 0X2d-RAID0,1,5,6,10,50,60-Support SuperCap+630mm MiniSAS HD Cable Moudle(12_28 HDD Chassis)	1
02311BNX	BC1M02TFM	LSI Flash Card,8GB,TFM,Supercap and 620mm Cable Moudle	1
<b>PCIe Card</b>			
06030276	NS16GOLC01	EMULEX,FC HBA,16Gb,2-Port,SFP+(with 2x Multi-mode Optical Transceiver),PCIe 3.0 x8	1
<b>Cables and Optional Equipments</b>			
21241258	E2USRAIL01	2U Ball Bearing Rail Kit	1
21241259	B1U2UCMA	1U/2U Cable Management Arm	1
<b>Technical Support Service</b>			
88134ULF	02311GHQ-88134ULF-3	RH2288H V3 (25HDD EXP Chassis)H22H-03 For oversea(except Japan)-Hi-Care Onsite Premier 24x7x4H Engineer Onsite Service-3Year(s)	1

## Disková pole pro zálohování - 2ks

Specifikace jednoho ks diskového pole

Part Number	Model	Description	Qty
<b>Huawei OceanStor 5500 V3</b>			
<b>OceanStor 5500 V3 Main Equipment</b>			
<b>Dual-Controller Unit 1</b>			
<b>Controller Enclosure</b>			
02350HWU	55V3-48G-AC3-16	5500 V3(2U,Dual Ctrl,AC,48GB,SmartIO,8*16Gb FC,12*3.5",SPE33C0212)	1
<b>Disk Components</b>			
02350BVT	NLSAS4T-7.2K-01	4TB 7.2K RPM NL SAS Disk Unit(3.5")	12
<b>HD Components</b>			
<b>Dual-Controller Unit 1 HD Components</b>			
02350BWK	NLSAS4T-7.2K-02	4TB 7.2K RPM NL SAS Disk Unit(3.5"),for High Density Disk Enclosure	32
0235G7JB	DAE07535U4-01	DAE07535U4 HD Disk Enclosure(4U,3.5",AC,Dual SAS Expansion Module,800W,75 Disks,without disk)	1
<b>Installation Material</b>			
14130858	SN2F01FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,3m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	8
04050699	HS-SAS-5-01	High Speed Cable,Mini SAS HD Cable,5m,(SFF 8644 Plug),(26AWG*4P*2B(S)),(SFF 8644 Plug),Indoor use	4
<b>System Software</b>			
<b>Basic Software License for Block(Include Device Management,SmartThin,SmartMulti-tenant,SmartMigration,SmartErase,SmartMotion,Cloud Service,SystemReporter)</b>			
88032QRA	LIC-5500V3-BS	Basic Software License for Block(Include Device Management,SmartThin,SmartMulti-tenant,SmartMigration,SmartErase,SmartMotion,Cloud Service,SystemReporter)	1
<b>SmartDedupe &amp; SmartCompression(for LUN)</b>			
88032RFK	LIC-5500V3-CD	SmartDedupe & SmartCompression(for LUN)	1
<b>OceanStor HW UltraPath Software License</b>			
88032QRN	LIC-5500V3-PATH	OceanStor HW UltraPath Software License	1
<b>Technical Support Service</b>			
88134ULF	02350HWU-88134ULF-3	5500 V3(2U,Dual Ctrl,AC,48GB,SmartIO,8*16Gb FC,12*3.5",SPE33C0212)-Hi-Care Onsite Premier 24x7x4H Engineer Onsite Service-3Year(s)	1
88134ULF	0235G7JB-88134ULF-3	DAE07535U4 HD Disk Enclosure(4U,3.5",AC,Dual SAS Expansion Module,800W,75 Disks,without disk)-Hi-Care Onsite Premier 24x7x4H Engineer Onsite Service-3Year(s)	1
88134UHK	88032QRA-88134UHK-3	Basic Software License for Block(Include Device Management,SmartThin,SmartMulti-tenant,SmartMigration,SmartErase,SmartMotion,Cloud Service,SystemReporter)-Hi-Care Application Software Upgrade Support Service-3Year(s)	1
88134UHK	88032QRN-88134UHK-3	OceanStor HW UltraPath Software License-Hi-Care Application Software Upgrade Support Service-3Year(s)	1
88134UHK	88032RFK-88134UHK-3	SmartDedupe & SmartCompression(for LUN)-Hi-Care Application Software Upgrade Support Service-3Year(s)	1

## Software pro virtualizaci

Specifikace celku dle požadavků

P/N	Popis	QTY
VS6-OEPL-AK-C	VMware vSphere 6 with Operations Management Enterprise Plus Acceleration Kit for 6 processors	1
VS6-OEPL-AK-G-SSS-C	Basic Support/Subscription VMware vSphere with Operations Management Enterprise Plus Acceleration Kit for 6 processors	1
VS6-OEPL-C-L2	VMware vSphere 6 with Operations Management Enterprise Plus for 1 processor	12
VS6-OEPL-G-SSS-C	Basic Support/Subscription VMware vSphere 6 with Operations Management Enterprise Plus for 1 year	12

## Služby a instalace

- Zkompletování a zprovoznění farmy v místě Kupujícího, kdy servery, datová úložiště a FC přepínače budou zkompletovány a nainstalovány do RACKů včetně zprovoznění. Dále bude provedeno zapojení a nakonfigurování FC, GE připojení včetně managementu. Datové úložiště bude naformátováno a zpřístupněno serverům (případně rozděleno dle požadavků) a provedeno nastavení synchronní replikace na druhé úložiště s identickou konfigurací. Dále v rámci celého řešení bude provedeno základní zprovoznění nakoupených licencí řešení VMware.
- Součástí této služby je dodávka veškerých potřebných napájecích kabelů, propojovacích kabelů a spotřebního materiálu pro montáž do racků.
- KVM konzole.
- Instalace a konfigurace virtualizace včetně vytvoření klastru.
- Vytvoření virtuálního serveru vhodného pro instalaci Windows Server 2012 R2.
- Dokumentace virtualizačního řešení.
- Zaškolení obsluhy virtualizačního řešení v rozsahu 5 osob/3 dny.