

板信商業銀行

「虛擬化平台伺服器及磁碟陣列維護案」

徵求文件

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壹、專案說明

一、簡介

板信商業銀行（以下簡稱本行），為進行 111 年度虛擬化平台伺服器及磁碟陣列維護作業，因此推動本專案以為因應。

二、專案名稱

本專案名稱為『虛擬化平台伺服器及磁碟陣列維護案』（以下簡稱本案）。

三、專案範圍

（一）本案設備維護項目包含下列主要部分：

伺服器			
VMware 虛擬化平台伺服器設備維護項目			
主項目	子項目	說明	數量
CISCO UCS 伺服器			1 式
	UCS-SP8-B200M4-V	UCS SP8 B200M4 VALUE 2X6248 1XCH	1
	UCS-SP-5108-AC2	(NOT SOLD STANDALONE) UCS SP BASE 5108	1
	CAB-AC-C6K-TWLK	Power Cord, 250Vac 16A, twist lock NEMA	4
	UCS-IOM-2208XP	"UCS 2208XP I/O MODULE (8 EXTERNAL, 32	2
	N01-UAC1	SINGLE PHASE AC POWER MODULE FOR UCS	1
	N20-CAK	Accessory kit for UCS 5108 Blade Server Chassis	1
	N20-CBLKB1	BLADE SLOT BLANKING PANEL FOR UCS	4
	N20-FAN5	FAN MODULE FOR UCS 5108	8
	N20-FW012	S BLADE SERVER CHASSIS FW PACKAGE 2.2	1
	UCSB-5108-PKG-HW	UCS 5108 PACKAGING FOR CHASSIS WITH HALF	1
	UCSB-PSU-2500ACDV	2500W PLATINUM AC HOT PLUG POWER SUPPLY	4
	UCS-SR-B200M4-V	(NOT SOLD STANDALONE)B200M4 W/2XE52660	4
	UCS-CPU-E52660D	2.60 GHZ E5-2660 V3/105W 10C/25MB	8
	UCS-MR-1X162RU-A	16GB DDR4-2133-MHZ RDIMM/PC4-17000/DUAL	64
	UCSB-MLOM-40G-03	CISCO UCS VIC 1340 MODULAR LOM FOR BLADE	4
	UCSB-MRAID12G	CISCO FLEXSTORAGE 12G SAS RAID	4
	UCSB-HS-EP-M4-F	CPU HEAT SINK FOR UCS B200 M4 SOCKET 1	4
	UCSB-HS-EP-M4-R	CPU HEAT SINK FOR UCS B200 M4 SOCKET 2	4
	UCSB-LSTOR-BK	FLEXSTORAGE BLANKING PANELS W/O	8
	CUIC-SP-PHY-SVR	CISCO UCS DIRECTOR RES LIC - ONE PHY	4

CISCO 網路交換器			
	UCS-SP8-B-FI48	(NOT SOLD STANDALONE) UCS 6248 FI W/ 12P	2
	UCS-PSU-6248UP-AC	UCS 6248UP POWER SUPPLY/100-240VAC	4
	CAB-9K12A-NA	POWER CORD, 125VAC 13A NEMA 5-15 PLUG,	4
	SFP-H10GB-CU3M	10GBASE-CU SFP+ Cable 3 Meter	4
	DS-SFP-FC8G-SW	8 GBPS FIBRE CHANNEL SW SFP+, LC	4
	N10-MGT011	UCS MANAGER V2.1	2
	UCS-ACC-6248UP	UCS 6248UP CHASSIS ACCESSORY KIT	2
	UCS-BLKE-6200	UCS 6200 SERIES EXPANSION MODULE BLANK	2
	UCS-FAN-6248UP	UCS 6248UP FAN MODULE	4
	UCS-FI-DL2	UCS 6248 LAYER 2 DAUGHTER CARD	2
	GLC-SX-MMD	1000BASE-SX SFP transceiver module MMF 850nm DOM	16
	SFP-GE-T=	1000BASE-T SFP (NEBS 3)	8
	CON-PSJ3-SP6508A2	UCS SUPP PSS 24X7X4(Not Sold Standalone)UCS SP BASE 5108 B	1
	CON-PSJ3-SRB2M4V	UCS SUPP PSS 24X7X4 UCS SP8 B200M4 VLUE w/2xE5-2660 V3	4
	CON-SAU-FPSERV9	SW APP SUPP+ UPGR UCS Director Resource License Single Node	4
	CON-PSJ3-FI6248BS	UCS SUPP PSS 24X7X4,(Not Sold Standalone) UCS 6248 FI w/ 12P	2
Cisco UCS expansion			1 式
	UCSB-5108-AC2-UPG	UCS 5108 Blade Server AC2 Chassis/0 PSU/8 fans/0 FEX	1
	N20-FW012	UCS Blade Server Chassis FW Package 2.2	1
	UCSB-5108-PKG-HW	UCS 5108 Packaging for chassis with half width blades.	1
	N01-UAC1	Single phase AC power module for UCS 5108	1
	N20-FAN5	Fan module for UCS 5108	8
	N20-CBLKB1	Blade slot blanking panel for UCS 5108/single slot	4
	N20-CAK	Accessory kit for UCS 5108 Blade Server Chassis	1
	UCSB-B200-M4	UCS B200 M4 w/o CPU, mem, drive bays, HDD, mezz	4
	CON-OSP-B200M4	SNTC-24X7X4OS UCS B200 M4 w/o CPU,mem,dr b,HDD,mezz	4
	UCS-MR-1X162RU-A	16GB DDR4-2133-MHz RDIMM/PC4-17000/dual rank/x4/1.2v	64
	UCSB-HS-EP-M4-F	CPU Heat Sink for UCS B200 M4/B420 M4 (Front)	4
	UCSB-LSTOR-BK	FlexStorage blanking panels w/o controller, w/o drive bays	8
	C1UCS-OPT-OUT	Cisco ONE Data Center Compute Opt Out Option	4
	UCSB-PSU-2500ACDV	2500W Platinum AC Hot Plug Power Supply - DV	4
	CAB-AC-C6K-TWLK	Power Cord, 250Vac 16A, twist lock NEMA L6-20 plug, US	4
	CON-OSP-6508AC2U	SNTC-24X7X4OS UCS 5108 AC Chassis, updated backplane	1
	UCS-CPU-E52660D	2.60 GHz E5-2660 v3/105W 10C/25MB Cache/DDR4 2133MHz	8
	UCSB-MLOM-40G-03	Cisco UCS VIC 1340 modular LOM for blade servers	4
	UCSB-MRAID12G	Cisco FlexStorage 12G SAS RAID controller with Drive bays	4

	UCSB-HS-EP-M4-R	CPU Heat Sink for UCS B200 M4/B420 M4 (Rear)	4
	UCS-IOM-2204XP	UCS 2204XP I/O Module (4 External, 16 Internal 10Gb Ports)	2
	UCS-LIC-10GE=	UCS 6200 Series Fabric Int lport 1/10GE/FC-port E-license	12
	SFP-H10GB-CU5M=	10GBASE-CU SFP+ Cable 5 Meter	4
	UCS-FI-E16UP=	UCS 6200 16-port Expansion module/16 UP/ 8p LIC	2
	CON-OSP-FIE16UP	SNTC-24X7X40S 16prt 10Gb UnifiedPrt/Expnsn mod UCS6200	2
	GLC-SX-MMD=	1000BASE-SX SFP transceiver module, MMF, 850nm, DOM	4
	SFP-GE-T=	1000BASE-T SFP (NEBS 3 ESD)	22
CISCO UCS Blade 3			1 式
	UCSB-5108-AC2-UPG	Cisco UCS 5108 Blade Server Chassis (FOX2124PA91)	1
	UCSB-PSU-2500ACDV	2500W Platinum AC Hot Plug Power Supply - DV	4
	CAB-AC-C6K-TWLK	Power Cord, 250Vac 16A, twist lock NEMA L6-20 plug, US	4
	N20-FW012	UCS 5108 Blade Chassis FW Package 2.2	1
	N01-UAC1	Single phase AC power module for UCS 5108	1
	UCS-IOM-2208XP	UCS 2208XP I/O Module (8 External, 32 Internal 10Gb Ports)	2
	N20-FAN5	Fan module for UCS 5108	8
	N20-CBLKB1	Blade slot blanking panel for UCS 5108/single slot	4
	UCSB-5108-PKG-HW	UCS 5108 Packaging for chassis with half width blades.	1
	N20-CAK	Accessory kit for UCS 5108 Blade Server Chassis	1
	UCSB-B200-M4	Cisco UCS B200 M4 Blade Server (FCH2122768J ; FCH2122760K ; FCH212373P0 ; FCH21227601)	1
	UCSB-MRAID12G	Cisco FlexStorage 12G SAS RAID controller with Drive bays	4
	UCSB-MLOM-40G-03	Cisco UCS VIC 1340 modular LOM for blade servers	4
	UCSB-HS-EP-M4-R	CPU Heat Sink for UCS B200 M4/B420 M4 (Rear)	4
	UCSB-LSTOR-BK	FlexStorage blanking panels w/o controller, w/o drive bays	8
	UCSB-HS-EP-M4-F	CPU Heat Sink for UCS B200 M4/B420 M4 (Front)	4
	C1UCS-OPT-OUT	Cisco ONE Data Center Compute Opt Out Option	4
	UCS-CPU-E52660D	2.60 GHz E5-2660 v3/105W 10C/25MB Cache/DDR4 2133MHz	8
	UCS-ML-1X324RU-A	32GB DDR4-2133-MHz LRDIMM/PC4-17000/quad rank/x4/1.2v	64
虛擬軟體			
	VS7-ENT-G-SSS-C	Basic Support/Subscription for VMware vSphere 7 Enterprise for 1 processor for 1 year	16
	VCS7-STD-G-SSS-C	Basic Support/Subscription VMware vCenter Server 7 Standard for vSphere 7 (Per Instance) for 1 year	1
	VR8-OSTC-G-SSS-C	Basic Support/Subscription for VMware vRealize Operations 8 Standard (Per CPU) for 1 year	16

外匯系統 WebServer 應用程式伺服器		111/01/30 保固到期，納入維護標的，維護期間 111/01/31-111/12/31	2 式
	UCSB-B200-M4-U	UCS B200 M4 w/o CPU, mem, drive bays, HDD, mezz(UPG)	2
	CON-SNTP-B200M4U	SNTC 24X7X4 UCS B200 M4	2
	UCS-CPU-E52650E	2.20 GHz E5-2650 v4/105W 12C/30MB Cache/DDR4 2400MHz	4
	UCS-MR-1X161RV-A	16GB DDR4-2400-MHz RDIMM/PC4-19200/single rank/x4/1.2v	8
	UCSB-MRAID12G	Cisco FlexStorage 12G SAS RAID controller with Drive bays	2
	UCSB-MLOM-40G-03	Cisco UCS VIC 1340 modular LOM for blade servers	2
	UCSB-HS-EP-M4-R	CPU Heat Sink for UCS B200 M4/B420 M4 (Rear)	2
	UCSB-HS-EP-M4-F	CPU Heat Sink for UCS B200 M4/B420 M4 (Front)	2
	C1UCS-OPT-OUT	Cisco ONE Data Center Compute Opt Out Option	2
	UCS-HD600G15K12G	600GB 12G SAS 15K RPM SFF HDD	4
外匯系統 資料庫伺服器		111/01/30 保固到期，納入維護標的，維護期間 111/01/31-111/12/31	2 式
	UCSB-B200-M4-U	UCS B200 M4 w/o CPU, mem, drive bays, HDD, mezz(UPG)	2
	CON-SNTP-B200M4U	SNTC 24X7X4 UCS B200 M4	2
	UCS-MR-1X161RV-A	16GB DDR4-2400-MHz RDIMM/PC4-19200/single rank/x4/1.2v	16
	UCSB-MRAID12G	Cisco FlexStorage 12G SAS RAID controller with Drive bays	2
	UCSB-MLOM-40G-03	Cisco UCS VIC 1340 modular LOM for blade servers	2
	UCSB-HS-EP-M4-R	CPU Heat Sink for UCS B200 M4/B420 M4 (Rear)	2
	UCSB-HS-EP-M4-F	CPU Heat Sink for UCS B200 M4/B420 M4 (Front)	2
	C1UCS-OPT-OUT	Cisco ONE Data Center Compute Opt Out Option	2
	UCS-CPU-E52667E	3.20 GHz E5-2667 v4/135W 8C/25MB Cache/DDR4 2400MHz	4
	UCS-HD600G15K12G	600GB 12G SAS 15K RPM SFF HDD	4

磁碟陣列			
VMware 虛擬化平台磁碟陣列設備維護項目			
主項目	子項目	說明	數量
EMC VNX5400 磁碟陣列			1 式
	VNXB54VP25F	VNX5400 DPE 25X2.5 DRIVE SLOTS-FLD IN	1
	VNXB6GSDAE15F	VNXB 15X3.5 6G SAS EXP DAE-FIELD INST	4
	V4-2S6FX-200	VNX200GB FAST VP SSD 25X2.5 DPE/DAE	11
	V-V4-230015	VNX300FB 15K VAULT 25X2.5 DPE/DAE	1
	V4-2S15-300	VNX300FB 15K CACHE 25X2.5 DPE/DAE	1
	FLV42S6F-200	VNX200GB FAST CACHE 25X2.5 DPE/DAE	3
	V4-VS15-600	VNX600GB 15K SAS 15X3.5 DAE	47

	C13-PWR-12	2 C13 CORDS NEMA 5-15 125V 10A - NON DPE	6
	C13-250V-ULCSA	250V PWR CRD C13 TO 6-15P UL/CSA	1
	VNX54-KIT	VNX5400 Documentation Kit-IC	1
	VSPBM8GFFEA	VNXB 4 PORT 8G FC IO MODULE PAIR	1
	ESRS-GW-200	EMC SECURE REMOTE GATEWAY CLIENT	1
	POERTPATH-VE	PowerPath/VE License Solution	1
	457-100-183	PowerPath VE STD X86 T2(8+CPUs)	8
	456-103-883	PowerPath/VE Host Licenses	4
	VNXBOEPERFTB	VNXB OE PER TB PERFORMANCE	31
	VNXOE-5400	VNX5400 Operating Environment	1
	FSTS-VNX5400	VNX5400 FAST Suite-IC	1
	UNISB-VNX5400	VNX5400Unisphere Block Suite-IC	1
VNX5400 擴充			
	V4-VS15-600U	VNX 600GB 15K SAS 15X3.5 DAE UPG	46
	C13-PWR-12	2 C13 CORDS NEMA 5-15 125V 10A - NON DPE	4
	VNXB6GSDAE15F	VNXB 15X3.5 6G SAS EXP DAE-FIELD INST	4
	V4-VS07-030U	VNX 3TB NL SAS 15X3.5 DAE UPG	17
	VNXBOEPERFTBU	VNXB OE PER TB PERFORMANCE UPGRADE	28
	M-PRESWE-001	PREMIUM SW SUPPORT	1
	VNXBOECAPTBU	VNXB OE PER TB HI CAPACITY UPGRADE	51
	456-110-456	POWERPATH VE HOST LICENSES SRV/USRV=IA	4
	456-108-191	POWERPATH/VE STD. X86 T2(8+CPUS)=ZC	8
CISCO 9148 8GB FC SWITCH			
	MDS-9148-16	CISCO 48-PORT 8GB FC SWITCH 16 ACTIVE	2
	CTX-OM3-10M	OM3 50/125 FIBER CABLE LC-LC 10 METER	32
	MDS-SFP-8GSW	2/4/8-GBPS FC SHORTWAVE SWITCH SFP LC	32
	MDS-PW8-TW	Qty 2 9100 9200 Power Cord TAIWAN	2
EMC DD2500 備份儲存系統			
	DD2500	SYSTEM, DD2500, NFS, CIFS	1
	DD2500-36TB	SYSTEM, DD2500-12X3HDD SAS, 36TB, NFS, CIFS	1
	L-XCAP2500-B	LICENSE, DD2500 EXP CAP, MORE THAN 66TB	1
	PC-TAIWAN-1N	POWER CORD, DD TAIWAN, BSMI, C13. 2M	2
	C-FLDIN2500	OPTION, FIELD INSTALL KIT DD2500	1
	D-BST-DOCS3	DOCS:BOOST;S3	1
	DDOS-DOC-A3	DOCS:DD OS DOC;A3	1
	L-BST-2500	LICENSE, BOOST, DD2500	1

EMC DD2200 備份儲存系統 (PSI FOR DD2200)			1 式
	PC-TAIWAN-1	POWER CORD, DD TAIWAN, BSMI, C13, 2M	2
	DD2200	SYSTEM DD2200 NFS CIFS	1
	DD2200-24TB	SYSTEM DD2200-12X2HDD SAS 24TB NFS CIFS	1
	C-FLDIN2200	OPTION FIELD INSTALL KIT DD2200	1
	M-PREHWDD-E1	PREMIUM SYSTEM SUPPORT(DD)	1
	L-REP-2200	LICENSE REPLICATOR DD2200=IA	1
	M-PRESWDD-E1	PREMIUM SOFTWARE SUPPORT(DD)	1
	L-BST-2200	LICENSE BOOST DD2200=IA	1
	M-PRESWDD-E1	PREMIUM SOFTWARE SUPPORT(DD)	1
	L-DDOE-DD2200-24	LICENSE BASE DD OE DD2200-24=IA	1
	M-PRESWDD-E1	PREMIUM SOFTWARE SUPPORT(DD)	1
	DDOS-DOC-A4N	DOCS, DD OS DOC, A4	1
	L-XCAP2200-B	LICENSE EXPSTOR DD2200=IA	1
	PS-BAS-DD00	IMPL FOR DD 0 SHELF QS	1
EMC NetWorker 備份軟體			1 式
	456-103-178	NW WOURCE CAP DATA ZONE ENABLER	1
	456-103-179	NW WOURCE CAP 1TB LICENSE TIER 1	7
	456-103-951	Backup and Recovery Manager-NetWorker	1
	INFOPROTEST	Information Protection Product Family Me	1
DELL 磁帶機及管理伺服器			1 式
	POWEREDGE R420	POWEREDGE R420	1
	POWER VAULT TL2000	POWER VAULT TL2000	1
XtremIO 1/2 X-Brick			1 式
	X02-CTRLE-EXP-T-F	XtremIO - STORAGE CTRL Exp tag fld	1
	X02-UPS-220FP	XtremIO - UPS 220V - FLD - Secondary	2
	X02-CTRLE-400-F	XTREMIO - STORAGE CTRL ENC FLD	1
	X02-VRACK-FD	XtremIO VIRTUAL RACK (FIELD)	1
	X02-KITS-FD	XtremIO SINGLE BRICK CONFIG KIT (FIELD)	1
	X02-D13-400-E-F	XTREMIO 13X400GB FLASH DRV ENC FLD OE SW	1
	M-PREHWX-001	PREMIUM HARDWARE SUPPORT	1
	X02-RTU-CF	XTREMIO RIGHT TO USE- OE=IC	1
	M-PRESWX-001	PREMIUM SOFTWARE SUPPORT	1
	X02-MNGT-01-CF	XTREMIO-MGMT LICENSE QTY 1=IC	1
	M-PRESWX-001	PREMIUM SOFTWARE SUPPORT	1
	PSINST-ESRS	ZERO DOLLAR ESRS INSTALL	1

	PS-BAS-XTINBS	XTREMIO INSTALL SINGLE XBRICK OR EMC CAB	1
	PS-BAS-XTIMBS	IMPL ARRAY WITH 5 HOSTS	1
	458-000-655	APPSYNC FOR X10	1
	456-110-886	APPSYNC 5TB LTD XTREMIO X-BRICK=ID	1
	M-PRESWX-001	PREMIUM SOFTWARE SUPPORT	1
	458-000-218	POWERPATH VIRTUAL EDITION	1
	PPVE-VM-KIT	POWERPATH PP-VMW-KIT	1
	M-PRESWX-001	PREMIUM SOFTWARE SUPPORT	1

註：本案維護期間：111/01/01~111/12/31。

(二)本案內容需求如下：

1. 虛擬化平台伺服器(UCS)設備維護(含設定調整及軟體升級)。
2. VMware 軟體授權及升級。
3. VMware 異常排除。
4. 伺服器虛擬化平台交換器設定調整。
5. 虛擬化平台磁碟陣列(EMC)設備維護(含設定調整及軟體升級)。
6. 備份軟體(Networker)及備份儲存區(DataDomain)設備維護(含設定調整及軟體升級)。
7. 磁帶機及磁帶機管理伺服器設備維護。
8. 新架構及功能導入之諮詢。
9. 設備故障需於接獲告知後 2 小時內到場且到達後 4 小時內完修。若未能於約定時間內修復，應免費提供備用模組或設備使用至原故障模組或設備修復為止。
10. 硬碟故障採硬碟不取回更換維護。

(三)本案承辦單位及聯絡窗口：

承辦單位：資訊部

承辦窗口：薛書偉

電話：(02)2965-2666#2360

電子郵件：46321@bop.com.tw

四、廠商資格

本案以公開招標方式辦理，投標廠商需具備『Cisco、VMware 及 EMC 原廠授權證明文件』，並於領標作業時繳交此份資格文件。