

Terms of Reference

Server Requisition for DOT System

Background

The Department of Tourism (DOT) is the national government agency charged with the responsibility to encourage, promote and develop tourism as major socio-economic activity to generate foreign currency and employment and to spread the benefits of tourism to both the private and public sector.

In order for the DOT to function based on the above, it has to have the necessary data to analyze current situations and trends, as well as, database of its systems and processes which includes its online accreditation system. Which also requires necessary ICT equipment such as but not limited to servers and data storage to house those systems.

In its DOT ISSP 2007 to 2009 implementation, the DOT was able to implement eight (8) DOT Systems which was developed and maintained by an information technology service provider. These systems which was house in 8 servers and 2 data storage has reach its maximum life span and are in need of replacement for the continuity of DOT operation and services.

Objectives

The main objective is to ensure that the DOT operation will not be hampered and maintain its working condition and efficiency to be able to delivered DOT services to our stakeholders.

Scope of the Services

- I. The IT firm shall provide the following:
 1. Shall deliver, install and configure six (6) units of application server, two (2) units of back-up server, Two (2) units of storage server and it's corresponding software such as but not limited to operating system, database, etc.; including the appropriate cables and wiring to ensure that the servers are ready for the installation.
 2. Delivery service, cables, wiring, railings, etc... Which are necessary for the operation of servers shall be free of charge and should not be generic in brand.
 3. All software installed in all units must have a box, copy of license agreement and a serial number. These items must be turned over to DOT for reference and to keep the software registered and updated.

4. The servers and software shall be compatible with the DOT's existing servers and software.
5. Provision and changes of license/application such as but not limited to Microsoft Server, Microsoft SharePoint, other Microsoft Products and other licenses/applications required for the operation of the existing DOT application system.
6. The server must be updated to its latest security protection and all service package must be installed.
7. Provide a full stress tests to all units from start to end for 3 consecutive days in full actual operations of DOT and shall provide test result reports. All bugs, error, misconfigurations, software problems, incompatibility, and down time connection found in each unit must fixed, replaced or pulled out. The stress test must be repeated after the resolving the problems until no problems were found, then that is the time the units will be deployed for actual DOT operations.
8. Shall provide 5-year maintenance for the servers and software, free of charge.
9. 5-year warranty, for spare parts and labor. Spare parts are readily and immediately available for replacement of defective part/s.
10. Shall provide four (4)-hour response time upon receipt of call and next business day on-site visit when necessary.
11. Shall assist the DOT in the installation of its application system in the server.
12. Shall provide Administrator Training and Server Management Training to IT Division.
13. Shall provide complete documentation such as but not limited to server connection diagram, listing, paper licenses, etc....
14. Shall provide administration manual and user manual.
15. Shall provide training certificates to trainee.
16. Shall provide at least 2 IT personnel to oversee, monitor and perform on-site support to after installation and configuration of all servers for a period of 1 – 2 months.

II. Server Requirements

a. Application Server Requirements (6 Units) [Php 1,536,083.70 / unit]

Processor (2 CPU Slot)	CPU 1	Intel Xeon E5-2630 v4 2.2GHz,25M Cache,8.0 GT/s QPI,Turbo,HT,10C/20T (85W) Max Mem 2133MHz
	CPU 2	Intel Xeon E5-2630 v4 2.2GHz,25M Cache,8.0 GT/s QPI,Turbo,HT,10C/20T (85W) Max Mem 2133MHz
Heatsink	2 x Standard Heatsink for PowerEdge R730/R730xd	
Motherboard	PE R730/xd Motherboard MLK	
Bezel	EMC QSYNC Bezel for R730	
Memory	1 x 2400MT/s RDIMMs 4 x 16GB RDIMM, 2400MT/s, Dual Rank, x8 Data Width	
Memory Configuration Type	Performance Optimized	
BIOS	Performance BIOS Settings	
Storage	2 x 300GB 15K RPM SAS 2.5in Hot-plug Hard Drive	
Optical Drive	DVD+/-RW, SATA, Internal	

Fan	Fresh Air Cooling, R730
Slots	DIMM Blanks for System with 2 Processors
	R730/xd PCIe Riser 2, Center
	R730 PCIe Riser 3, Left
	R730/xd PCIe Riser 1, Right
Raid	PERC H730P RAID Controller, 2Gb NV Cache, Minicard RAID 1 for H330/H730/H730P
Power Management BIOS	Power Saving Active Power Controller
Network Controller	1 x Broadcom 5720 QP 1Gb Network Daughter Card 2 x QLogic 57810 Dual Port 10Gb Base-T Network Adapter
Communication	2 x Qlogic 2560 Single Channel 8Gb Optical Fibre Channel HBA PCIe, Low Profile
Power	Dual, Hot-plug, Redundant Power Supply (1+1), 750W, Titanium, 200-240VAC 2 x Long Jumper Cord, C13-C14,4m,12a (APCC except ANZ)
System Documentation:	No Systems Documentation, No OpenManage DVD Kit
Chassis	Chassis with up to 8, 2.5" Hard Drives Form Factor: 1U
Operating System	Windows Server 2012R2 Standard Edition,Factory Installed, No Media, 2 Socket, 2 VMs,NO CALs
	Windows Server 2012R2 Standard, Media, FI Standard Ed Downgrade image, Eng
Embedded Systems Management	iDRAC8 Enterprise, integrated Dell Remote Access Controller, Enterprise
License	99 x 1-pack of Windows Server 2016,2012 USER CALs (Standard or Datacenter)
	1 x 10-pack of Windows Server 2016,2012 Device CALs (Standard or Datacenter)
Database Software	Microsoft SQL Server 2016 Standard,OEM, Includes 5 Device CALs, NFI, ENGLISH
Configuration 1	Integration Information Ship Mod for R730 PE Server FIPS TPM 1.2v2 CC SI EMEA MOD INFO SI, MOD, INFO,CSR, ELIGIBLE SI,MOD,CFIA,OR-PROPLUSSVR SI,MOD,INFO,FIDA OR BYPASS SI,MOD,LBL,OR,PSP,ENT SI,MOD,INFO,MIAS,POSTBURN SI,MOD,INFO,MIAS,AP
Configuration 2	Integration Information SI EMEA MOD INFO SI,MOD,INFO,CSR,ELIGIBLE MAC Address Label for On – board NIC APCC Order Ready for MAC Add Label SI,MOD,ASSET – TAG, OR
Support	For SADMG Countries only - No Installation Service Required Technical Support-VN,PK,PH,BN,SL,BD 5Yr ProSupport Plus and Mission Critical: (7x24) 4-hour Onsite Service-VN,PH,BN

	ProSupport Plus and Mission Critical: (7x24) 4-hour Onsite Service, Year 1-3 - Indo,Vn,Ph & Bru ProSupport Plus and Mission Critical: (7x24) 4-hour Onsite Service, Year 4-5 - Indo,Vn,Ph & Bru ProSupport Plus and Mission Critical: 7x24 Technical Support and Assistance: 5Yr- Indo,Vn,Ph & Bru Mod Specs Info (SADMG) EX-HUB from APCC Penang(DDD)
Rail	ReadyRails Sliding Rails With Cable Management Arm
Warranty	Limited Warranty:Yr1-3 (Labor)-VN,PK,PH,BN,SL,BD Limited Warranty:Yr1-3 (Parts)-VN,PK,PH,BN,SL,BD
Delivery	Ex – factory Delivery

b. Back – up Server Requirements (2 Units) [Php 1,803,696.07 / unit]

Processor (2 CPU Slot)	CPU 1	Intel Xeon E5-2630 v4 2.2GHz,25M Cache,8.0 GT/s QPI,Turbo,HT,10C/20T (85W) Max Mem 2133MHz
	CPU 2	Intel Xeon E5-2630 v4 2.2GHz,25M Cache,8.0 GT/s QPI,Turbo,HT,10C/20T (85W) Max Mem 2133MHz
Heatsink	2 x Standard Heatsink for PowerEdge R730/R730xd	
Motherboard	PE R730/xd Motherboard MLK	
Bezel	EMC QSYNC Bezel for R730	
Memory	1 x 2400MT/s RDIMMs 4 x 16GB RDIMM, 2400MT/s, Dual Rank, x8 Data Width	
Memory Configuration Type	Performance Optimized	
BIOS	Performance BIOS Settings UEFI BIOS Boot Mode with GPT Partition	
Storage	2 x 300GB 15K RPM SAS 2.5in Hot-plug Hard Drive 8 x 2TB 7.2K RPM NLSAS 512n 2.5in Hot-plug Hard Drive	
Optical Drive	DVD+/-RW, SATA, Internal	
Fan	Fresh Air Cooling, R730	
Slots	DIMM Blanks for System with 2 Processors	
	R730/xd PCIe Riser 2, Center	
	R730 PCIe Riser 3, Left	
	R730/xd PCIe Riser 1, Right	
Raid	PERC H730P RAID Controller, 2Gb NV Cache, Minicard RAID 1+RAID 10 for H330/H730/H730P (2 + 4-14 HDDs or SSDs in pairs)	
Power Management BIOS	Power Saving Active Power Controller	
Network Controller	1 x Broadcom 5720 QP 1Gb Network Daughter Card 2 x QLogic 57810 Dual Port 10Gb Base-T Network Adapter	
Communication	2 x Qlogic 2560 Single Channel 8Gb Optical Fibre Channel HBA PCIe, Low Profile	
Power	Dual, Hot-plug, Redundant Power Supply (1+1), 750W, Titanium, 200-240VAC 2 x Long Jumper Cord, C13-C14,4m,12a (APCC except ANZ)	
System Documentation:	No Systems Documentation, No OpenManage DVD Kit	
Chassis	Chassis with up to 16, 2.5" Hard Drives Form Factor: 1U	

Operating System	Windows Server 2012R2 Standard Edition,Factory Installed, No Media, 2 Socket, 2 VMs,NO CALs Windows Server 2012R2 Standard, Media, FI Standard Ed Downgrade image, Eng
Embedded Systems Management	iDRAC8 Enterprise, integrated Dell Remote Access Controller, Enterprise
License	99 x 1-pack of Windows Server 2016,2012 USER CALs (Standard or Datacenter) 1 x 10-pack of Windows Server 2016,2012 Device CALs (Standard or Datacenter)
Database Software	Microsoft SQL Server 2016 Standard,OEM, Includes 5 Device CALs, NFI, ENGLISH
Configuration 1	Integration Information Ship Mod for R730 PE Server FIPS TPM 1.2v2 CC SI EMEA MOD INFO SI, MOD, INFO,CSR, ELIGIBLE SI,MOD,CFIA,0R-PROPLUSSVR SI,MOD,INFO,FIDA OR BYPASS SI,MOD,LBL,OR,PSP,ENT SI,MOD,INFO,MIAS,POSTBURN SI,MOD,INFO,MIAS,AP
Configuration 2	Integration Information SI EMEA MOD INFO SI,MOD,INFO,CSR,ELIGIBLE MAC Address Label for On – board NIC APCC Order Ready for MAC Add Label SI,MOD,ASSET – TAG, OR
Support	For SADMG Countries only - No Installation Service Required Technical Support-VN,PK,PH,BN,SL,BD 5Yr ProSupport Plus and Mission Critical: (7x24) 4-hour Onsite Service-VN,PH,BN ProSupport Plus and Mission Critical: (7x24) 4-hour Onsite Service, Year 1-3 - Indo,Vn,Ph & Bru ProSupport Plus and Mission Critical: (7x24) 4-hour Onsite Service, Year 4-5 - Indo,Vn,Ph & Bru ProSupport Plus and Mission Critical: 7x24 Technical Support and Assistance: 5Yr- Indo,Vn,Ph & Bru Mod Specs Info (SADMG) EX-HUB from APCC Penang(DDD)
Rail	ReadyRails Sliding Rails With Cable Management Arm
Warranty	Limited Warranty:Yr1-3 (Labor)-VN,PK,PH,BN,SL,BD Limited Warranty:Yr1-3 (Parts)-VN,PK,PH,BN,SL,BD
Delivery	Ex – factory Delivery

c. Storage Server Requirements (1 Unit) [Php 1,701,196.09 / unit]

SCv2020 FC	
Controller Cards	8Gb 4 Port Fibre Channel Dual Controller
Hard Drives	24 x 1.8TB, SAS, 10K, 2.5", HDD 8 x Enclosure Blank, SAS, Drive Bay Blanks, 2.5"
SCOS Base License	SCv20x0 SCOS Base License

Data Protection License	SCv20x0 Remote Data Protection License
Optional License	Application Protection Manager License Suite SCv20X0 Flexport License
Power Supply	Redundant Power Supply, 580W
Power Cord	2 x Jumper Cord, 10A,0.6M,C13/C14 (TW and APCC countries except ANZ)
Rack Rails	Rack Rails 2U
Bezel	SCv2020 Bezel
Cables	6Gb Mini-SAS to Mini-SAS Cable, 0.6M, Quantity 2
Deployment Services	ProDeploy Plus Storage SC Series vXXXX SAN
Keep your Hard Drive	5 Years
Hardware Support Services	ProSupport Plus: 5 Year Mission Critical 4 hr Onsite Service

d. Fiber Switch (Php 507,545.98 / unit)

8Gb FC Switch (8 x 8G SFP + 16 Empty ports)	
Power Cord	1 x Jumper Cord, 250V,4M
Fiber Cable	11 x 5M, Multi-Mode, LC-LC, Fibre Cable
License	Ports on Demand Expansion, 8-Port (with 8Gbps SFP + License)
Technical Support	5Yr ProSupport Plus and Mission Critical: (7x24) 4-hour Onsite Service-VN,PH,BN ProSupport Plus and Mission Critical: (7x24) 4-hour Onsite Service, Year 1-3 - Indo,Vn,Ph & Bru ProSupport Plus and Mission Critical: 7x24 Technical Support & Assistance: 5Yr - Indo,Vn,Ph & Bru ProSupport Plus and Mission Critical: (7x24) 4-hour Onsite Service, Year 4-5 - Indo,Vn,Ph & Bru
Warranty	Limited Warranty:Yr1 (Parts and Labor) Yr2-3 Limited Warranty: Extended (Parts and Labor)
Rails	Fixed Rack Rails

e. Network Switch (Php 378,952.72 / unit)

24 x 10GBase – T Ports, 1 x Modular Bay, 1 x AC PSU, IO	
Power Cord	2 x 250v, 13 Amps, 4 Meters, C13/C14
Technical Support	Lifetime Limited Dell Standard Technical Support-VN,PK,PH,BN,SL,BD 5Yr ProSupport Plus and Mission Critical: (7x24) 4-hour Onsite Service-VN,PH,BN Lifetime Limited Hardware Warranty (Parts)-VN,PK,PH,BN,SL,BD Prosupport Plus and Mission Critical: 7x24 Technical Support & Assistance: 5Yr - Indo,Vn,Ph & Bru # Yr 1-5 Prosupport Plus and Mission Critical: 4-hour (7x24) Onsite Service- Indo, Vn, Ph & Bru
Warranty	Limited Warranty:Yr1 (Parts and Labor) Yr2-3 Limited Warranty: Extended (Parts and Labor)
Rails	Fixed Rack Rails

f. Enclosure (Php 568,108.57 / Unit)

SC120 enclosure	
Power Cord	Jumper Cord, 10A,0.6M,C13/C14
Power Supply	Redundant Power Supply, 700W
Bezel	SC120 Bezel
	Ship Mod for Compellent SC120
Hard disk	8 x 1.8TB, SAS, 10K, 2.5", HDD
Cable	6Gb Mini-SAS to Mini-SAS Cable, 0.6M
Technical Support	Enterprise Deployment Partner Validation Service Technical Support-VN,PK,PH,BN,SL,BD 5Yr Keep Your Hard Drive-VN,PK,PH,BN,SL,BD 5Yr ProSupport: Next Business Day Onsite Service-VN,PK,PH,BN,SL,BD Yr1-3 ProSupport: Next Business Day Onsite Service (Labor) -VN,PK,PH,BN,SL,BD Yr4-5 ProSupport: Next Business Day Onsite Service-VN,PK,PH,BN,SL,BD 5Yr ProSupport:(7x24) Technical Support & Assistance-VN,PK,PH,BN,SL,BD
Warranty	Limited Warranty:Yr1-3-VN,PK,PH,BN,SL,BD (Parts and Labor)
Rails	Ready Rails II for 4-post Racks

Item	Quantity	Unit Cost	Total Cost
Application Server	6	1,536,083.70	9,216,502.20
Back – up Server	2	1,803,696.07	3,607,392.14
Storage Server	1	1,701,196.09	1,701,196.09
Fiber Switch	2	507,545.98	1,015,091.96
Network Switch	2	378,952.72	757,905.44
Enclosure	1	568,108.57	568,108.57
			16,866,196.40