



REQUEST FOR PROPOSAL

Hyper-Converged Infrastructure Solution (DR)

17th Jan, 2022

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TPL TRAKKER PROFILE AND SERVICES:

TPL Trakker Limited started as a joint venture with Digicore; has been the industry leader for innovative solutions backed by technology for the last 16 years. It has been winning the 'Brands of the Year Award' consecutively from 2007 to 2014 in the "Vehicle Tracking & Security" category. TPL Trakker is truly a regional player with operations in Pakistan, UAE, Bangladesh, Afghanistan and Qatar with over 150,000 units installed, establishing a distinctive market presence.

TPL Trakker Limited is a turnkey solutions provider having car tracking units, software, operational know how, deployment, data evaluation, consultancy and project management acumen. With an elite team of experts in tracking, TPL Trakker is committed to provide customers with modified solutions including Stolen Vehicle Services, Fleet Management Solutions, Safe Transport Environment Project, Trakker NAV, Personal Tracking, & e-Solutions. With these superior quality services, TPL Trakker assures to provide you with all kind of solutions that can help you live a better life.

Our business is to supply superior GPS tracking along with GSM & Satellite Mobile Asset Tracking, Management and Information Solutions. We work in partnership with our customers to develop solutions that deliver measurable business and operational benefits by providing total visibility and control of mobile assets and work forces.

TPL Provides following Solutions:

- Vehicle Tracking Solution.
- Portfolio Management.
- Trakker NAV.
- TPL Maps.
- Container Mapping.
- Personal Tracking.

PURPOSE:

The purpose of this Request for Proposal (RFP) is to contract with a qualified firm which can provide, install, deploy and configure Hyper Converged Solution in accordance with latest technology being used in the market.

SCOPE:

TPL intends to procure latest technology equipment for their Infrastructure, which includes Hyper Converged Infrastructure Solution and VMware Licenses. All the necessary Licenses, software and hardware must also be proposed with the Solution. No component whatsoever would be provided by TPL. Both HCI and VMware Licenses should be with single vendor with Three year principal backed OEM support for software and 3 year for Hardware along with local support.

AWARD CRITERIA:

Enter the criteria that will be used to determine the award.

Criteria #1 – 100% Compliant Technical Solution with lowest bid price.

Criteria #2 – Country-Wide Local Certified Team and OEM Support Available.

RFP CONTACT:

Fahad Iftikhar Khan & Muhammad Talal Ibrahim will be the sole contact for this RFP. Communication with any other TPL TRAKKER employee or consultant during the RFP period is not permitted, and may result in your company being disqualified from the evaluation process. Any and all questions relating to the content, timeline, or requirements outlined in this RFP, as well as the associated proposals, should be made only via email to: Fahad Iftikhar Khan fahad.iftikhar@tplcorp.com & Mohammad Talal Ibrahim talal.ibrahim@tplcorp.com

TPL TRAKKER LIMITED will help clarify any issues or questions regarding this RFP. It is the vendor's responsibility to seek this clarification.

RFP RESPONSE FORMAT:

Proposals submitted in response to this RFP are to be sent in a Word document or Adobe PDF format as an attachment to an email to: Fahad Iftikhar Khan fahad.iftikhar@tplcorp.com & Muhammad Talal Ibrahim talal.ibrahim@tplcorp.com. Also, hardcopies of the proposal are required, 1 original and 1 copy. Proposals must be submitted in sealed envelopes clearly marked "Hyper Converged Solution & VMware Licenses", the name of the supplier, and either "Original" or "Copy," as applicable, on the outside of the envelope.

Proposals are to be addressed as follows:

Company Name: TPL TRAKKER LIMITED

Company Address: Corporate Office

Plot No. 1, Sector #24, near Shan Chowrangi,

Korangi Industrial Area, Karachi – 74900

Postal Code: 74900

Attention: Mr. Fahad Iftikhar Khan & Muhammad Talal Ibrahim

Email Address: fahad.iftikhar@tplcorp.com

Email Address: talal.ibrahim@tplcorp.com

TIMEFRAME AND KEY DATES:

Activity	Date
RFP Issued	17 th Jan, 2022
Vendor RFP Questions Due (via Email Only)	19 th Jan, 2022
Vendor RFP Responses Due	21 st Jan, 2022
Proposal Evaluation	24 th Jan, 2022
Vendor(s) Negotiations	27 th Jan, 2022
Award Notification(s)	31 st Jan, 2022

Hyper Converged Infrastructure Specifications:

HCI is currently undergoing tremendous growth, accelerated by access to value-added features and applications only HCI can provide. Additionally, the cost benefits of converging hardware are adding to the rapid acceptations of this technology.

Features:

- **VMware Integration** – Standardized on VMware vSphere providing ease of management and powered by industry-leading VMware vSAN
- **Consolidation with Scalability** – Starts small and scales non-disruptively with single node upgrades reducing data center footprint and Capex
- **Industry-Leading Reliability** – Jointly engineered and integrated by HPE and VMware with a single support number for both hardware and software
- **High-Performance** – Flash speed at hybrid prices and kernel integrated data services to make the most efficient use of resources
- **Flexible Applications** – Broad applicability across use cases, including enterprise ROBO, mid-market workload consolidation, VDI and more
- **Addresses Any Use Case** – With highly configurable options based on HPE servers, you have the flexibility to choose appliance that is best for need.
- **Monitoring** - Solution must possess Real-time silent monitoring.
- **Scalability** – The Solution must possess scalability to extend resources as per demand.

- **High Availability** – Solution must provide multiple Server clusters for redundant high availability.
- **Cost Effective** – Solution must be cost effective.

Requirements:

Module Name	Description	Qty	Product Qty
	VxRail E660H/F/N - [APJC_E660_H_F_49833_VP]		
Base	VxRail E660F, All Flash	1	4
Storage Deployment Model	vSAN Node	1	
Operating System	VxRail Software 7.0.240 Factory Install	1	
VxRail configuration	No Transformational License Agreement	1	
Chassis Configuration	2.5" Chassis with up to 10 HDDs (SAS/SATA) including max of 4 Universal Drives, 3 PCIe Slots, 2 CPU	1	
Bezel	VxRail 1U Bezel V2	1	
Processor	Intel® Xeon® Gold 5320 2.2G, 26C/52T, 11.2GT/s, 39M Cache, Turbo, HT (185W) DDR4-2933	1	
Additional Processor	Intel® Xeon® Gold 5320 2.2G, 26C/52T, 11.2GT/s, 39M Cache, Turbo, HT (185W) DDR4-2933	1	
Memory DIMM Type and Speed	3200MT/s RDIMMs	1	
Memory Capacity	16GB RDIMM, 3200MT/s, Dual Rank	16	
Memory Capacity	32GB RDIMM, 3200MT/s, Dual Rank, 16Gb BASE x8	16	
Hard Drives	800GB SSD SAS ISE Mix Use 12Gbps 512e 2.5in Hot-plug AG Drive, 3 DWPD,	1	
Hard Drives	7.68TB SSD vSAS Read Intensive 12Gbps 512e 2.5in Hot-Plug ,AG Drive SED, 1DWPD,	5	
PCIe Riser	VxRail E660/F, Riser Config 0, 2CPU, 2A+3A, 2x16LP, 1x8LP	1	
OCP 3.0 Network Adapters	Broadcom 57412 Dual Port 10GbE SFP+, OCP NIC 3.0	1	
Additional Network Cards	Intel X710 Dual Port 10GbE SFP+ Adapter, PCIe Low Profile	1	
Trusted Platform Module	No Trusted Platform Module	1	
Rack Rails	ReadyRails Sliding Rails With Cable Management Arm	1	
Power Supply	Dual, Hot-Plug, Power Supply Fault Tolerant Redundant (1+1), 1100W, Mixed Mode Titanium	1	
Power Cords	Power Cord - C13, 2M, 250V, 10A (UK, Malaysia, Singapore, HK, Brunei, DDD)	2	
Optics & Cables for Network Cards	SFP+ SR Optic, 10GbE, for all SFP+ ports except high temp validation warning cards	4	
VMware vSAN Software Licenses	VxRail VMware,vSAN Advanced, 3 Years	2	
VxRail HCI System Software Processor	VxRail HCI System Software, A	2	

VxRail HCI System Software Capacity Drive	VxRail HCI System Software, Capacity Drive 7.68TB vSAS SSD	5		
VxRail HCI System Software Memory	VxRail HCI System Software Memory, 16GB	16		
VxRail HCI System Software Memory	VxRail HCI System Software Memory, 32GB	16		
VMware vSphere Software Licenses	VxRail VMware vSphere Enterprise Plus for 1 processor, 3 Years	2		
Dell Services:Extended Service	ProSupport and 4-hour Mission Critical VSAN Flash Advanced-ACDTS, 36 Month(s)	1		
Sftwr Svcs - VMware Vsphere (VI)	ProSupport Mission Critical vSphere Enterprise Plus for 1 Processor Sftwr Spt-Maint, 36 Month(s)	2		
Regulatory	PowerEdge R650 CE,CCC and BIS Marking on 2.5" Chassis, APCC	1		
SAS/SATA/NVMe Backplane	SAS/SATA/NVMe Capable Backplane	1		
RecoverPoint	HCIA RecoverPoint for VMWare for 1 node VT	1		
SHIPPING	VxRail E660/F/N Shipping - APCC/Taiwan/Japan	1		
Freight Charges	PowerEdge-SE02 Handling and Insurance Charges(DDD)/Seaship	1		
Shipping Material	R650 Ship 4x3.5, 10x2.5, 8x2.5 NVMe	1		
Front Storage	10x2.5 Front Storage	1		
Motherboard	PowerEdge R650 Motherboard	1		
Processor Thermal Configuration	Heatsink for 2 CPU configuration (CPU more than 165W)	1		
Memory Configuration Type	Performance Optimized	1		
RAID	C35, No RAID, VxRail E660/F	1		
RAID/Internal Storage Controllers	PERC HBA355i for Chassis up to 10 drives	1		
Boot optimized storage cards	BOSS-S2 controller card + with 2 M.2 480GB (RAID 1)	1		
Embedded Systems Management	iDRAC9, Enterprise 15G	1		
Dell Networking S4128 - [AS-S4128]				
Base	Dell EMC Switch S4128F-ON, 1U, PHY-less, 28 x 10GbE SFP+, 2 x QSFP28, PSU to IO , 2 PSU, OS10	1		2
Operating System	OS10 Enterprise, S4128F-ON	1		
QSFP+Direct Attach Cables (40GbE)	Dell Networking Cable, QSFP28 to QSFP28, 100GbE, Active Optical (Optics included) Cable, 2 Meter	1		
SFP Transceiver	Dell Networking, Transceiver, SFP+, 10GbE, SR, 850nm Wavelength, 300m Reach	12		
Power Cords	Jumper Cord - C13/C14, 2M, 250V, 10A (EU, TW, APCC countries except ANZ)	2		
Dell Services:Hardware Support	3Yr ProSupport: (S4128F)	1		
Dell Services:Deployment Services	For SADMG Countries only-No Installation Service Required	1		

PowerEdge R750		
PowerEdge R750	PowerEdge R750 Server	1
FRONT STORAGE	Chassis with up to 8x2.5" Drives	1
Trusted Platform Module	Trusted Platform Module 2.0 V3	1
Chassis Configuration	2.5" Chassis with up to 8 Universal Drives (SAS/SATA or NVMe Direct), 2 CPU	1
Processor	Intel® Xeon® Silver 4314 2.4G, 16C/32T, 10.4GT/s, 24M Cache, Turbo, HT (135W) DDR4-2666	1
Additional Processor	Intel® Xeon® Silver 4314 2.4G, 16C/32T, 10.4GT/s, 24M Cache, Turbo, HT (135W) DDR4-2666	1
Processor Thermal Configuration	Heatsink for 2 CPU configuration (CPU less than 165W)	1
Memory Configuration Type	Performance Optimized	1
Memory DIMM Type and Speed	3200MT/s RDIMMs	1
Memory Capacity	32GB RDIMM, 3200MT/s, Dual Rank, 16Gb BASE x8	2
RAID Configuration	C7, Unconfigured RAID for HDDs or SSDs (Mixed Drive Types Allowed)	1
RAID/Internal Storage Controllers	PERC H755 with rear load bracket	1
Hard Drives	480GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD	2
Hard Drives	1.2TB Hard Drive SAS ISE 12Gbps 10k 512n 2.5in Hot-Plug	2
BIOS and Advanced System Configuration Settings	Performance BIOS Setting	1
Advanced System Configurations	UEFI BIOS Boot Mode with GPT Partition	1
Fans	Standard Fan x6	1
Power Supply	Dual, Hot-Plug, Fully Redundant Power Supply (1+1), 1400W, Mixed Mode	1
Power Cords	Jumper Cord - C13/C14, 4M, 250V, 10A (US, EU, TW, APCC countries except ANZ)	2
PCIe Riser	Riser Config 1, 6x8, 2x16 slots	1
Motherboard	R750 Motherboard	1
Embedded Systems Management	iDRAC9, Enterprise 15G	1
OCP 3.0 Network Adapters	Broadcom 57412 Dual Port 10GbE SFP+, OCP NIC 3.0	1
Additional Network Cards	On-Board Broadcom 5720 Dual Port 1Gb LOM	1
Fibre Channel Adapters	Dell Recommended Emulex LPE 31002 Dual Port 16Gb Fibre Channel HBA, PCIe Low Profile	2
Bezel	PowerEdge 2U Standard Bezel	1
Boot Optimized Storage Cards	BOSS S2 Blank	1
Quick Sync	Quick Sync 2 (At-the-box mgmt)	1
Password	iDRAC, Factory Generated Password	1
Group Manager	iDRAC Group Manager, Enabled	1

Optics & Cables for Network Cards	SFP+ SR Optic, 10GbE, for all SFP+ ports except high temp validation warning cards	2
Operating System	No Operating System	1
OS Media Kits	No Media Required	1
Dell Services: Extended Service	ProSupport and 4-hour Mission Critical-ACDTS, 36 Month(s)	1
Rack Rails	ReadyRails Sliding Rails With Cable Management Arm	1

Training:

- 3 Detailed Technical Training/Certification from Authorized training institute for above solution.