

**Questions and Answers for RFQ SHO80014Q0005
Purchase of IT Equipment**

Q1. Will you be considering any brand of products or do you work only with one specific brand of servers?

A.1 Any Brand.

Blade-Type Servers

Q.2 We request to lower requirement of processor's clock speed to 2,8 GHz; we find hard to accomplish current required clock speed in 8C.

A.2 We can accept E5-2690v2 (3.0GHz/10-core/25MB/130W)

Q.3 Please clarify more broadly the requirement of a multifunctional card with 2 ports that can be split into 4 vNICs

A.3 Must have the capacity that every Physical port presents to the O.S. 1 to 4 ports with independent channel and configurable speed so the 10Gbit can be divided for this purpose

Chassis for Blade-Type Servers:

Q.4 In the 10Gb Networking Switches; are the 24 ports the sum of the two switches? Are those ports external or internal?

A.4 16 internal, 8 external

Q.5. We request to lower requirement of Quantity of Blades to 14

A.5 We need 16 blades chassis since we are asking for a Blade Based Storage.

Q.6. SAS switches are requested but not requesting any SAS connection navigation devices in Servers or Storage. (It should be removed)

A.6 SAS Switches are needed

Switch 48 Ports 4 sfp+

Q.7 What is the warranty period for the switch ?

A.7 3 year 24 x 7 support

The Blade Processor request:

You are asking for the "INTEL Xeon E5-26xx, 8Core, at 3.5GHz .

Q.8 Will you allow a replacement Processor like the "Intel Xeon E5-2690v2, 10C, at 3.0GHz with 25M Cache"?

A.8 No.

Enclosure Switches:

You are requesting "24 ports 10Gb, with Non-blocking Architecture that allows each port of 10Gb can be Split in 4 NICs physical to optimize the management of the broadband for virtualized servers (2 switches)." The number of physical ports needed is 32 if you split the 8 blades with 4 NIC ports per.

Q.9 Do you only need of 24 external physical ports per VNIC port/Blades or do you need 32+ external ports?

A.9 24 external ports for external switches and the Switch in the Enclosure must have the capacity to 128 VNIC

Enclosure Fans:

You are requesting 10 active cool 200 fans.

Q.10 Would you allow an option of “9 Hot-pluggable, redundant fans” instead?

A.10 Yes

Q.11 – Should we assume that this equipment will eventually be shipped from the United States to Honduras?

A.11 Yes, this is a turnkey project.

If not, no additional information is needed.

If so, we are getting specific questions from manufacturers about warranty support for overseas. Specifically this comment was made.

The Support will not be valid outside the US and there are no return privileges once it leaves the US. It will require a separate quote for in country warranty support. Please fill out the attached information to obtain said quote”

Should this equipment ultimately be transferred from the US, we do not have the specific information requested to complete the form and consequently cannot provide a quote without it. Would it be possible for you to provide the additional information requested? I have attached the forms for your review and inserted ????? in the space where information is needed.

Analyzing your RFP document related to Blade Servers and iSCSI SAN Storage System build with Blade Nodes and SAS Disc Enclosure, we found that your requirement match with our HP Product , HP Lefthand P4000 SAN Solution Model P4800 G2 SAN Solution , that model is a 2 node solution (2 P4460sb G2 Storage Blades for BladeSystem c-Class Enclosure)plus an one MDS600 with 70 HDDs SAS 600GB 15K for a 42 TB Raw capacity , configured in Cluster redundancy allowing 21 TB of raw capacity for the 2 node cluster using Network raid 1.

Validating the commercial availability of this product , we found a Customer Notice from HP , that is shown in the following link:

http://h20565.www2.hp.com/portal/site/hpsc/template.PAGE/public/kb/docDisplay/?sp4ts.oid=4118659&spf_p.tpst=kbDocDisplay&spf_p.prp_kbDocDisplay=wsrp-navigationalState%3DdocId%253Demr_na-c03859287-1%257CdocLocale%253Den%257CcalledBy%253DSearch_Result&javax.portlet.begCacheTok=com.vignette.cachetoken&javax.portlet.endCacheTok=com.vignette.cachetoken

By this time this product is in EOL by May 31, 2013 and EOS by May 2018.

Looking at HP Configuration tools, this product appears as retiring product, and we are asking factory about it availability for current sale.

Q.12 The Question is ; Have this product or characteristics a homologation mandatory requeriment for specific SAS HDDs Size (600 Gb and 15K) and Number of Disc (70 bays) for Disc Enclosure?

The Product HP P4800 G2 has been replaced by HP StoreVirtual 4630 That is a Single Node solution (StoreVirtual 4630sb Blade Server) , plus an one HP D2700 900GB 6G SAS SFF 22.5TB BUNDLE , a 2 node Solution can be built with 2 4630 in order to get the same capacity like P4800 G2.

A.12 Yes as long it complies all the specs.

Q.13 The second Question is ; Can we offer this current model (2 StoreVirtual 4630) replacing the equivalent P4800 G2 configuration???

Looking at the Servers features, we found that you request Blade Servers with 2 Intel E5-26xx Processors 8 cores, L3 cache 20MB, and 130 Watts and 3.5 Ghz,

A.13 Yes as long it complies all the specs

Q.14 The third question is , 3.5 Ghz is a typing mistake ???, because we found that the only Intel E5-26xx proc, that meet 8cores,20MB L3 cache and 130 watts is E5-2680 processor, but it has 2.7 Ghz frequency.

A.14 We can accept E5-2690v2 (3.0GHz/10-core/25MB/130W)

VMware

Q.15 What will the processor configuration be of each ESXi server?

A.15 2 Processor per server.

External Storage

Q.16 Will a total maximum capacity of 384 TB be acceptable?

A.16 YES

Q.17 Would they like us to quote 1 licensing per node or would they like us to quote two licensing so when they purchase the 2nd node they won't incur any more licensing costs.

A.17 One License per node.

Q.18 Can mac support be omitted, most storage options do not natively test with MAC OS and to find a system that does would require quoting a much more expensive system or a system that is not "top of the line"

A.18 Mac support can be omitted.

Shipping:

Q.19 We are an U.S. base company – Will you require shipping to JIT (Freight Forwarder)

A.19 It is a turnkey Project

Q.20 Will you require Door to Door Delivery?

A.20 It is a turnkey project.

Q.21 Or should we quote both options?

A.21 Yes.

I am submitting this one subsequent question, as they are due today, and this regards warranty support.

Almost all manufacturers offer worldwide warranty support, and it is usually 8-5 next business day – 5 days a week. However in some countries that warranty support must be uplifted because parts are not always stockpiled, maintenance offices are not always close by. To properly quote your request, we need to know where the equipment will ultimately be serviced country wise (and preferably the city too) so that we do not run into any delays in supplying warranty support. You do have the option of mailing parts back to the US or storing spares. Even self-maintenance is an option.

Q. 22 Can you please tell me what kind of warranty support you are requiring and the location of that equipment that will be supported post sale?

The manufacturer I am working with came up with the following questions as well.

A.22 24 x 7 x 4 h local support

Q.23 Please explain the specific need for 600GB 15k drives.

A.23 Must present a the same equivalen iops solution.

Q.24 Can we offer an alternative drive type?

A.24 Yes as long you meet the total IOPS.

Q.25 I see the need for supporting a number of different OS's listed. However, I do not see your support protocols (SIFS/NFS). Please provide those.

A.25 Does not apply.

Q.26 Please provide the current OS you are using. No single server platform can support all the OS's you have listed. (x86 vs UNIX)

A.26 Most vendors support a large variety of OS.

Q.27 Please explain the need for the enclosure to support 70 LFF SAS drivers.

A.27 You can present a solution with the equivalent iops performance

Q.28 Please explain this requirement: "The management system must be based on a single set of nodes concatenated and not administered as independents servers of nodes."

A.28 Storage nodes must be presented as a unique storage.

Q.29 Please explain the architectural need for 10GB iSCSI on the storage side, yet you need SAS switches on the blade enclosure.

A.29 You must meet the total iops equivalent to the 15K Disks.

Q.30 The manufacturer I am working with has one more question. He claims that if the requirement for specific 600GB size disk drive size is relaxed yet still provide other size disk drives with the same amount of overall storage, then significant savings can be had.

The requirement for 600GB drives is believed to be vendor specific and restrictive, (essentially a lock out spec) barring other manufacturers or bidders who can deliver a workable solution that still meets your specifications at a substantially lower cost.

If we can offer a storage configuration using a different drive type that still gives you the same overall capacity and performance as the 600GB 15k drive at a significant cost savings, can we offer the alternative drive?

A.30 Yes.

Q.31 With respect to the processor being requested for the Eight Blade Servers, Intel E5-26XX, Eight core and 3.5 Ghz. From Intel's product list, we identified model E5-2680 which has a Clock Speed of 2.80 Ghz and a Max Turbo frequency of 350 Ghz. (<http://www.intel.com/content/www/us/en/processor-comparison/compare-intel-processors.html?select=server>). This particular processor is out of production and is being replaced by the next generation Intel's E5-2680V2 with 10 cores, 25 Mb of cache, and Clock Speed of 2.80 Ghz and Maz Turbo of 3.60 Ghz. The previous processor could only be used with up to 384 Gb Memory no matter the Servers nominal capacity (you are requesting up-to 512 Gb in the specs), the new processor can be used with up to 768 Gb Memory according to Intel.

A.31 We can accept E5-2690v2 (3.0GHz/10-core/25MB/130W)

Q.32 According to Intel, the Maximum memory that can be used using the requested processor (E5-2680), please validate if you will consider the new generation of procesors with an equivalent processing capacity, that can be used with up to 768 Gb Memory.

A.32 We can accept E5-2690v2 (3.0GHz/10-core/25MB/130W)

Q.33 You have cread a specification sheet that can only be covered by Hewlett Packard Branded Blade Chassis with SAS adapters in the Chassis, limiting free competition and alternative solutions by other manufac5ues such as DELL, and IBM. Is there a reason why the specifications are limited to HP Brand equipment? The following requirements are directed to HP equipment and can be validated at <http://www.datastorage.com/HPP4800MDLBS.html>.

A.33 We need a Blade consolidated solution, you can present alternatives without the SAS switches as long they meet this aspect.

Q.33 a) The requested SAS Switches are only available in HP Branded Blade Enclosure, as well as the number of Active Fans as unique to Hp's HP BLc7000 enclosure (<http://www8.hp.com/us/en/products/enclosures/product-detail.html?oid=5363107#!tab=specs>)

A.33 a) We need a Blade consolidated solution, you can present alternatives without the SAS switches as long they meet this aspect.

Q. 33 b)Only HP manages a iSCSI SAN with 70 LFF SAS drives and 600Gb/15 K discs (http://www8.hp.com/us/en/products/disk-storage/product-detail.html?oid=5062150&jumpid=oc_r1002_usen_c-001_r0001#!tab=features)

A.33 b) We need a Blade consolidated solution, you can present alternatives without the SAS switches as long they meet this aspect.

The solution you are requesting has the following limitations following best practices by Vmware:

You should separate the LAN infrastructures from the iSCSI infrastructures, this implies that the servers you have two dedicated 10 GB LAN ports and two dedicated 10GB iSCSI ports. This implies that the Blade chassis should have a total of four (4) switches, two for LAN and two for iSCSI.

Vmware best practices does not recommend the utilization of 1 GB LAN ports for Blade Server configurations. Virtualized use single or multiple 1 GB ports and can saturate limited LAN Host Connectivity. Please validate that all Hosts must be connected at 10 GB, and Port multiplexing should be performed by the VSwitch and not a Physical switch.

Q.34 Please indicate if the 48 port Switch you are requesting is for distribution purposes, and if 10GB SFP+ Modules should be included to Stack with the Balde's 10 Gb Switches?

A.34 48 port Switches are for distribution purposes. Must be connected to the blade switches.

Q.35 Please validate if you are requesting Vmware Enterprise Plus Licenses.

A. 35 Yes.

Q.36 Please confirm that the Vmware Vcenter license being requested is the Standard License, and if a license of Windows Server 2008 server will be provided to install the Vcenter on a dedicated server as requested or should it be included. Otherwise would you allow to installed the Appliance version of Vcenter be installed in a non-dedicated format?

A.36 Can be installed in a non dedicated format.

Q.37 Please validate if the Implementation for the Vmware solution must be performed by a Vmware VCP Certified technician or no certification and previous expertise is required?

A.37 No certification but previous experience required.

Q.38 In order to obtain the best possible pricing on the requested licensing, we must report the End-users information to Vmware, which includes: Organization and contact name. Could you please assist us with this information?

A.38 We cannot.

Q.39 We are concerned that no indication has been made to the redundant power protection required to properly operate a Blade Chassis. We need to know if the Embassy will provide all the required UPS protection as well 30 AMP circuits required to install the Blade Chassis. In case it will become the responsibility of the supplier to perform this installation, would it be possible to perform a visit to the installation premises before the presentation of a formal bid is perform?

A.39 You can visit the facility once the project is assigned.

Q.40 Please indicate the city in which the equipment will be installed.

A.40 Tegucigalpa, Honduras