

# New Virtual Server Support for Hitachi Storage Command Suite

## WebTech Q&A Session – February 10, 2010

**1. Are you saying that if I have the Hitachi Device Manager agent installed, I don't also need the Hitachi Tuning Manager agent?**

It depends. The Tuning Manager agent is not required for the VMware support covered in this WebTech. Though optional, it is however required for some Tuning Manager functions such as named application reporting (Oracle, SQL Server, Exchange and others).

**2. Do you need to have the host ESX agent installed in order to take advantage of the 6.3 capabilities?**

No, the Hitachi Device Manager agent is not required. Note there is no specific "ESX agent."

**3. Is a customer facing presentation covering these new software distributions available for Hitachi Data Systems TrueNorth Channel Partners now?**

A copy of this presentation will be posted on [hdsnet.hds.com](http://hdsnet.hds.com) and PartnerXchange.

**4. Regarding the Datastore name (on a VMware server), where does it get that particular datastore name? Is that the alias name of the datastore named by the VM Administrator?**

Yes, it is the name of the VMFS datastore. Information is obtained through network queries of the VMware vMA, the vSphere Management Assistant.

**5. What user do we use to setup the ESX host in Device Manager?**

From an Hitachi Storage Command Suite administrative security perspective any admin potentially could. You can control this using access permissions and resource groups features of Device Manager. You add the ESX host using the 'Add Virtualization server' dialog launch from Host screen, or the *AddVirtualizationServer* CLI command. During this process you are prompted for a VMware administrative name and password, similar to the security privileges requested during "Add Host."

**6. No client software installation is necessary on the ESX servers?**

The agents are optional but not required. See answer #1.

**7. How to get the performance of disks assigned to VM from ESX**

Using Tuning Manager, select the hypervisor view, select the VMware system and VMFS, then click on the VMs tab to see an individual VMs LUN assignments. Then select the performance view for these LUNs.

**8. Is there a cost to using these tools? I have a Hitachi Adaptable Modular Storage 2100 and I am running 12 virtual machines, but I only have one Hitachi Storage Navigator Modular 2.**

Yes, there is. On Adaptable Modular Storage platforms both Device Manager and Tuning Manager have a single charge for a storage system frame-based license in the low thousands dollar range. This means the license applies to the storage system, regardless of its size or how many servers are

attached. On Hitachi Universal Storage Platform® systems pricing is tiered according to the size of the system.

**9. How easy would it be to integrate capacity and or performance alerts to an enterprise console such as CA-NSM, IBM-Tivoli, etc.**

This can be done using SNMP, SMI-S interfaces. Alternately, Device Manager and Tuning Manager can send email alerts and trigger custom scripts.

**10. Is there a VMware specific agent that needs to be installed for ESX servers?**

There is no VMware specific agent for Device Manager. Depending on the VMware storage configuration, you can install the standard Device Manager agent in a VM or on the ESX server itself. See “Notes About Using the Device Manager in a Virtual Environment” in the *Hitachi Device Manager Agent Installation Guide – MK-92HC019-21*

**11. What are the VMware Administrator activities needed to setup these applications from a storage admin perspective?**

There are no special VMware admin activities needed to setup these applications from a storage perspective.

**12. I'm currently on Device Manager 6.1. What's the path to get me to 6.3?**

You can do an in-place upgrade. In many cases we recommend this be done as a services engagement, but if doing it yourself be sure to back up the system prior to the upgrade and to follow all the instructions and prerequisites closely.

**13. Will there be Hyper-V support too?**

Yes, but we have not announced a date.

**14. When is support for IBM VIO servers going to be implemented?**

Support for IBM AIX VIO hypervisor is currently available (VIO 2.1.1). Note storage mapping to virtual partitions (VIO clients) are identified if a NPIV compliant HBA is used. See “Notes About Using the Device Manager in a Virtual Environment” in the *Hitachi Device Manager Agent Installation Guide – MK-92HC019-21*

**15. Is there a plan to run Device Manager as multithreaded application versus single threaded?**

We continue with each release to improve performance and minimize delays. We expect in future releases to continue to make dramatic strides in performance.

**16. One area of weakness in Tuning Manager 6.2 was the visibility of Hitachi Dynamic Provisioning Pools at a more macro performance level. So if I am seeing, say, a performance impact from an LDEV carved out of Pool 30, there isn't an easy way to see what the aggregate load (I/O, read/write, etc.) on the POOL is without doing say stacked area graphs on the pools. Has this been addressed in 6.3 or on the radar for future upgrade?**

This has not changed in V6.3 but it will improve significantly by the end of 2010.

**17. Will Tuning Manager 6.4 support Zpool, and zones in Solaris 10?**

We are still evaluating the requirements, at this point it will not be in Tuning Manager 6.4

**18. Is there any enhancement to Replication Manager in tracking VMware SRM, etc.?**

Hitachi supports VMware SRM and has the appropriate plug ins for both Adaptable Modular Storage and Universal Storage Platform systems. But there is not at this time any specific VMware enhancement in Replication Manager.