Important Notice RAID System Monitoring on NEC ESMPRO Manager in VMware ESXi 5 or later

This document includes important notice for using NEC ESMPRO Manager for monitoring the status of RAID System on VMware ESXi.

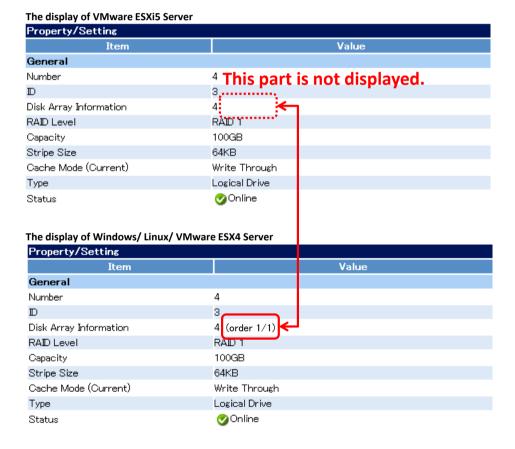
Please read carefully and follow the instructions when you use your system.

The following symptoms occur when you monitor RAID System using NEC ESMPRO Manager with LSI SMI-S Provider on VMware ESXi.

* On this document, "VMware ESXi" means hypervisor of VMware ESXi 5 or later.

Number information of Logical Drive in Disk Array

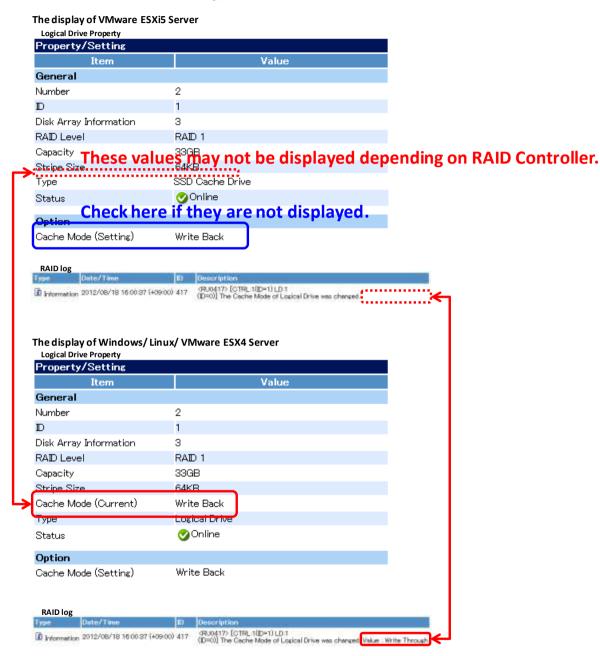
For "Disk Array Information" in Logical Drive Property, NEC ESMPRO Manager does not display the part "order n/m". Therefore, if multiple logical drives are created for one disk array, you do not know what number drive a certain logical drive is in the disk array.



Display of Cache Mode (Current)

In Logical Drive Property, NEC ESMPRO Manager does not display "Cache Mode (Current)" with some RAID Controllers. In addition, no correct information of "Cache Mode (Current)" is registered in the RAID log when "Cache Mode (Setting)" is changed manually.

See the value of "Cache Mode (Setting)" to check the Cache Mode.

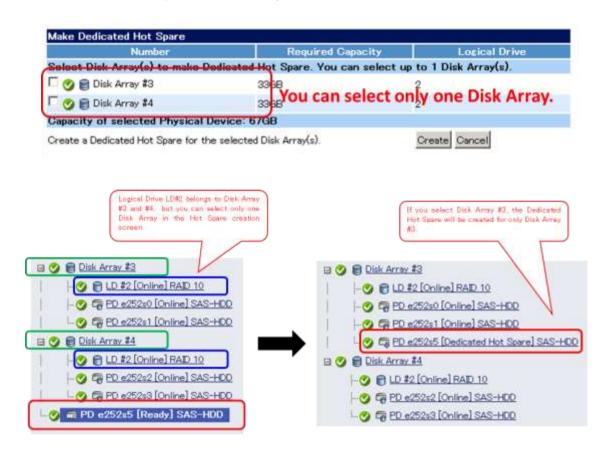


The number of Disk Arrays which you can select for a Dedicated Hot Spare

You can select only one Disk Array for a Dedicated Hot Spare.

For the Logical Drive which belongs to more than one Disk Arrays, you can also select only one Disk Array in the Hot Spare creation screen.

If you want to create Hot Spare which belongs to more than one Disk Array, please use Global Hot Spare or create Dedicated Hot Spare from offline utility.



Display of Dedicated Hot Spare which belongs to more than one Disk Array

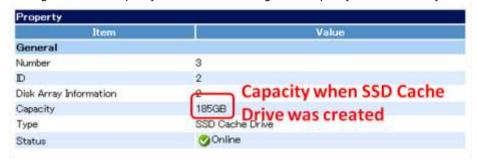
When you create a Dedicated Hot Spare for Logical Drive belonging to more than one Disk Array and then execute "Make Offline" to Physical Device, the device may be displayed as "Global Hot Spare" despite actually being a "Dedicated Hot Spare".

This change is only cosmetic. It functions as a Dedicated Hot Spare.

Display of capacity for SSD Cache Drive

The "Capacity" property for SSD Cache Drive displays capacity at the point when SSD Cache Drive was created.

This property value does not change when the Physical Device which constitutes the SSD Cache Drive fails, although the actual capacity decreases according to the capacity of the failed Physical Device.



Display of Physical Device which constitutes SSD Cache Drive

When you remove the Physical Device which constitutes SSD Cache Drive once and then insert it again, the Physical Device is displayed as a member of SSD Cache Disk Array, although it is supposed to be displayed outside the Disk Array.



Event notification about HDD Power Status change

From VMware ESXi to NEC ESMPRO Manager, event notification may delay in the event of HDD Power Status change (Power Saving/ Transitioning/ On).

As a result, NEC ESMPRO Manager may delay in reflecting HDD Power Status to the WebGUI and RAID log.

If you want to get most recent HDD Power Status, please rescan RAID System.

Creating Hot Spare after degrading Logical Drive

When you create Hot Spare after degrading Logical Drive, NEC ESMPRO Manager may display a message indicating that creating Hot Spare failed, even if it was created successfully.

If you want to get correct information, please rescan RAID System.

If you create Hot Spare before degrading Logical Drive, this phenomenon does not happen.

Connection between vSphere Client and VMware ESXi

VMware ESXi may fail to send information to vSphere Client if the RAID System configuration changes frequently in a short period of time, for example, if a physical device is removed and inserted at intervals of approximately 90 seconds. In this case, please wait for 10 minutes to recover from the communication failure or restart the VMware ESXi Management Agents. You can restart the Management Agents in the following procedure.

[How to restart the Management Agents]

- 1. Press F2 on the console of VMware ESXi and log in to the management window.
- 2. Select Troubleshooting Options and press Enter.
- 3. Select Restart Management Agents and press Enter.
- 4. Press F1 on the confirmation windows to restart Management Agents.

Failed Physical Devices that were part of offlined Logical Drive

When the Logical Drive is offline due to failure of Physical Devices, please remove these failed Physical Devices as soon as possible.

The RAID System Information may not get until failed Physical Devices are removed.

Enclosure Position of Physical Device which using N8103-115 RAID Controller

When using N8103-115 RAID Controller (512MB, RAID 0/1/5/6), Enclosure Position of Physical Device may display as "Internal".