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HDD firmware update using the storcli64 or Megacli64 utilities connected to LSI/Avago/Broadcom MegaRaid controllers (9261-8i and 3108 controllers) installed in the CDE465, CDE475 and CDE6032 systems

Details the process to update HDD firmware

Modification History

Revision	Date	Originator	Comments
1.00	8/15/2018	Scott Parry	Initial Draft

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1 Background

This document details the process to update HDD firmware using the storcli64 or Megacli64 utilities for HDD/SSDs connected to LSI/Avago/Broadcom MegaRaid controllers, i.e. 9261-8i and 3108 controllers, for the CDE465, CDE475 and CDE6032 systems when required.

2 Identify the currently running HDD firmware

2.1 Identify the currently running HDD firmware using the storcli64 utility

Syntax: [root@COSNode1]# /opt/MegaRaid/storcli/storcli64 -pdlist -a<adapter number> | egrep 'Slot Number|Device Firmware Level'

i.e. “/opt/MegaRaid/storcli/storcli64 -pdlist -a1 | egrep 'Slot Number|Device Firmware Level” will return the list of devices and their firmware revisions for adapter/controller “1”

```
[root@COSnode1]# /opt/MegaRAID/storcli/storcli64 -pdlist -a1 | egrep 'Slot  
Number|Device Firmware Level'  
Slot Number: 0  
Device Firmware Level: A907  
Slot Number: 1  
Device Firmware Level: A519  
Slot Number: 2  
Device Firmware Level: A907  
Slot Number: 3  
Device Firmware Level: A907  
Slot Number: 4  
Device Firmware Level: A519  
Slot Number: 5  
Device Firmware Level: A519...
```

Repeat this command for all of the adapters/controllers in the system

2.2 Identify the currently running HDD firmware using the MegaCli64 utility

Syntax: [root@COSNode1]# /opt/MegaRAID/MegaCli/MegaCli64 -pdlist -a<adapter number>1 | egrep 'Slot Number|Device Firmware Level'

i.e. “/opt/MegaRaid/storcli/storcli64 -pdlist -a1 | egrep 'Slot Number|Device Firmware Level” will return the list of devices and their firmware revisions for adapter/controller “1”

```
[root@COSNode1]# /opt/MegaRAID/storcli/storcli64 -pdlist -a1 | egrep 'Slot Number|Device Firmware Level'
```

```
Slot Number: 0
```

```
Device Firmware Level: A907
```

```
Slot Number: 1
```

```
Device Firmware Level: A519
```

```
Slot Number: 2
```

```
Device Firmware Level: A907
```

```
Slot Number: 3
```

```
Device Firmware Level: A907
```

```
Slot Number: 4
```

```
Device Firmware Level: A519
```

```
Slot Number: 5
```

```
Device Firmware Level: A519...
```

Repeat this command for all of the adapters/controllers in the system

3 HDD firmware update

3.1 HDD firmware update using the storcli64 utility

Syntax: [root@COSNode1]# /opt/MegaRaid/storcli/storcli64 /cx download file=filepath [fwtype=<value>] [nosigchk] [noverchk] [resetnow]

```
[root@COSNode1]# /opt/MegaRaid/storcli/storcli64 /cx /eall /sall show
```

Note the “enclosure number” “e” and “device numbers” “s” that you want to update

```
[root@COSNode1]# /opt/MegaRaid/storcli/storcli64 /c1 /eall /s7 show all -- to display csd7
```

If the controller is controller 1, the enclosure number was 59 and the device was 1, and you are using the EV03.lod file, then you would use the following syntax:

```
/opt/MegaRaid/storcli/storcli64 /c1/e59/s1 download src=<filepath>/EV03.lod
```

- Copy the <firmware bin file> to the “/opt/MegaRAID/storCLI/” directory.
- cd to the “/opt/MegaRAID/storCLI/” directory
- Identify the HDDs location on the controllers that need to be updated by running the following command:
 - /opt/MegaRaid/storcli/storcli64 /cx /eall /sall show
 - Note the /cx = the controller number 0,1,2, /e = “enclosure number” and /s = “device numbers”
 - Note the c, e and s for each device that you want to update
 - Run the following command for each drive that is to be updated:
 - [root@COSNode1]# /opt/MegaRaid/storcli/storcli64 /cx/ex/sx download src=<firmware bin file>
 - Example: If the controller is controller 1, the enclosure number was 59 and the device was 1, and you are using the EV03_4TB.lod file, then you would use the following syntax:
 - [root@COSNode1]# /opt/MegaRaid/storcli/storcli64 /c1/e59/s1 download src=<filepath>/EV03_4TB.LOD

3.2 HDD firmware update using the MegaCli64 utility

Syntax: [root@COSNode1]# /opt/MegaRaid/MegaCli/MegaCli64 -PdFwDownload -PhysDrv [
[<enclosure number>:<device ID> -f <firmware filename> -a<controller number>

- Copy the firmware file to the “/opt/MegaRAID/MegaCli64/” directory.
- Identify the HDDs location on the controllers that need to be updated by running the following command:
- [root@COSNode1]# /opt/MegaRAID/MegaCli64/MegaCli64 -pdlist -a1
This will display all of the devices on adaptor “1”, run this command again for adaptor 1
- Note the adaptor, enclosure and device ID numbers
- Run the following command for each drive that is to be updated:
- [root@COSNode1]# /opt/MegaRAID/MegaCli64/Megacli64 -PdFwDownload -PhysDrv [
[<enclosure number>:<device ID> -f <firmware filename> -a<controller number>

Syntax Example:

- [root@COSNode1]# /opt/MegaRAID/MegaCli64/Megacli64 -PdFwDownload -
PhysDrv [252:0] -f EV03.LOD -a1
 - Example: If the controller is controller 1, the enclosure number was 59 and the device was 1, and you are using the EV03_4TB.lod file, then you would use the following syntax:
 - [root@COSNode1]# /opt/MegaRaid/storcli/ Megacli64 -PdFwDownload -
PhysDrv [59:1] -f EV03.LOD -a1