

LSI SAS2108 Controller Firmware Update Procedure

*** Firmware file Name: **smc2108.rom**
 *** Utility: **MegaCLI.exe**

Two methods to flash SAS2108 firmware

1. MegaCLI Utility
2. MegaRAID Storage Management Utility

1. Using MegaCLI under DOS

1) Boot from USB key and use following command or run SMC2108.bat file.

`C:\> Megacli -AdpFwFlash -f smc2108.rom -a0`

ex) SAS2108 firmware flash via MegaCLI utility

```
C:\SAS2108>MegaCLI.exe -AdpFwFlash -f SMC2108.ROM -a0
DOS/32A -- Protected Mode Run-time Version 7.2
Copyright (C) Supernar Systems, Ltd. 1996-2002
DOS/32A warning (9004): mouse initialization failed

Adapter 0: Supermicro SMC2108
Vendor ID: 0x1000, Device ID: 0x0079

Package version on the controller: 12.12.0-0047
Package version of the image file: 12.12.0-0095
Download Completed.
Flashing image to adapter...
Adapter 0: Flash Completed.

Exit Code: 0x00
```

ex) SAS2108 firmware flash via batch file (smc2108.bat file include above command)

```
C:\SAS2108>dir

Volume in drive C is HO LEE
Volume Serial Number is 543E-C63D
Directory of C:\SAS2108

.                <DIR>          04-17-12  4:19p
..               <DIR>          04-17-12  4:19p
MEGACLI  EXE           753,664  04-11-12  8:46a
RELEAS~1 TXT             451  05-02-12 10:59a
SMC2108  BAT             428  05-02-12 11:12a
SMC2108  ROM       4,587,520  02-03-12  5:52p
          4 file(s)      5,342,063 bytes
          2 dir(s)     1,655,635,968 bytes free

C:\SAS2108>smc2108.bat_
```

2) Reboot the system and check firmware version in controller OPROM banner during boot and in MSM

```

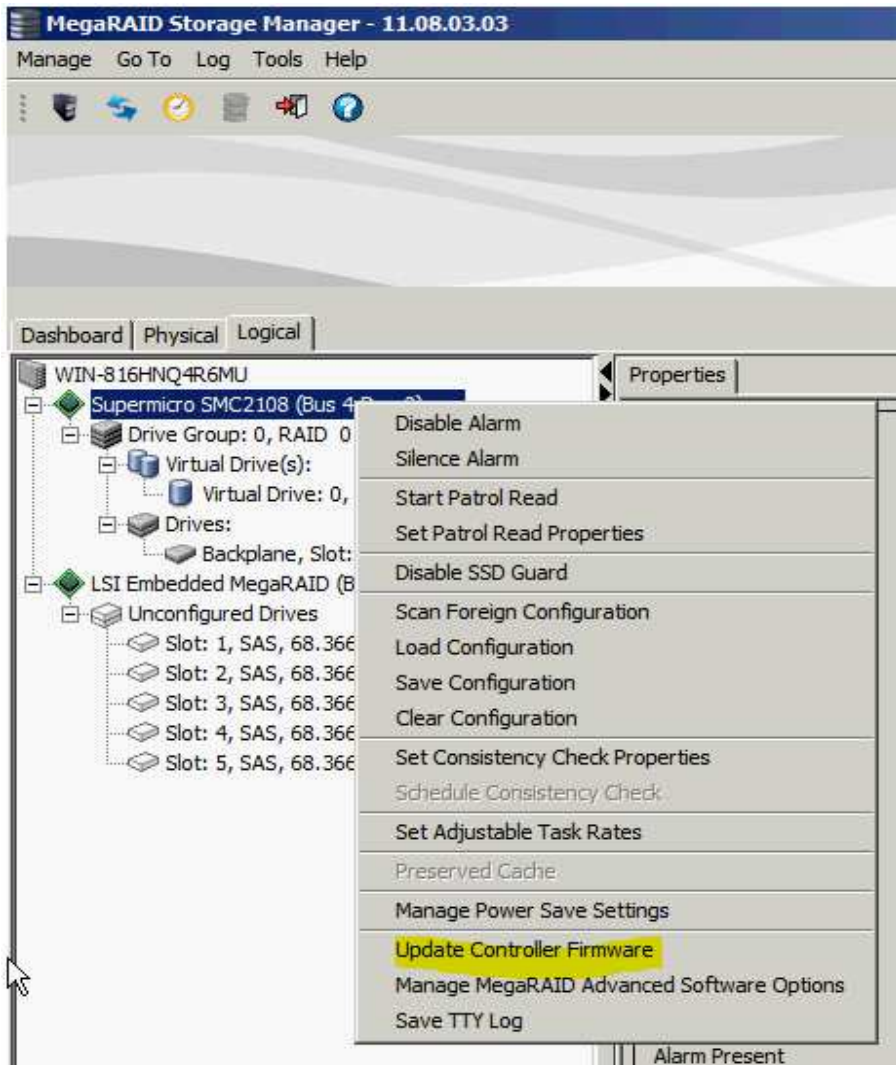
LSI MegaRAID SAS-MFI BIOS
Version 3.24.00 (Build October 26, 2011)
Copyright(c) 2011 LSI Corporation

HA -0 (Bus 4 Dev 0) Supermicro SMC2108
Battery Status: Not present

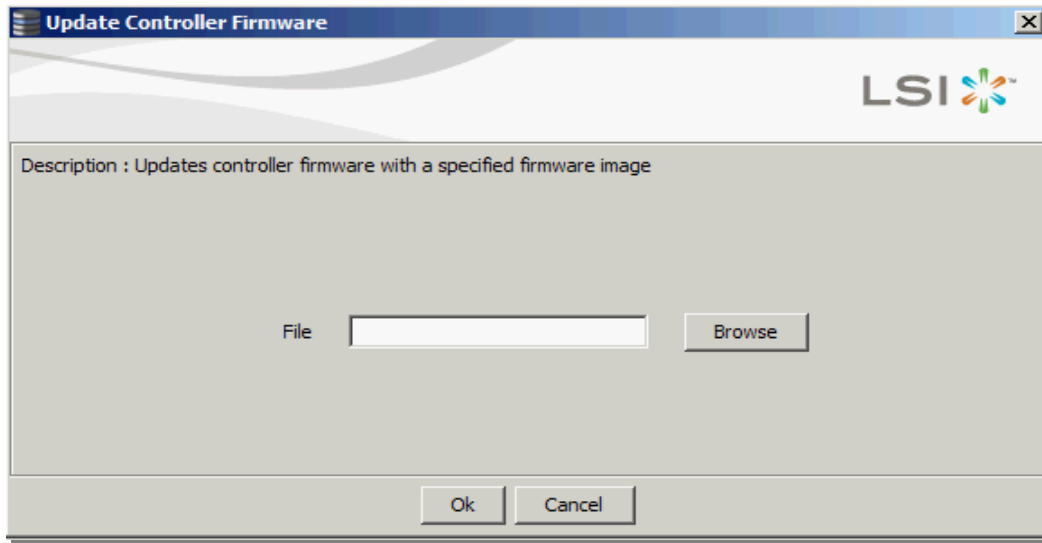
PCI SLOT ID LUN VENDOR PRODUCT REVISION CAPACITY
-----
2 26 0 LSI Supermicro SMC2108 → 2.120.243-148 512MB
2 SN06 476940MB
2 0 LSI Virtual Drive RAID0 475883MB
    
```

2. Using MegaRAID Storage Manager utility under OS

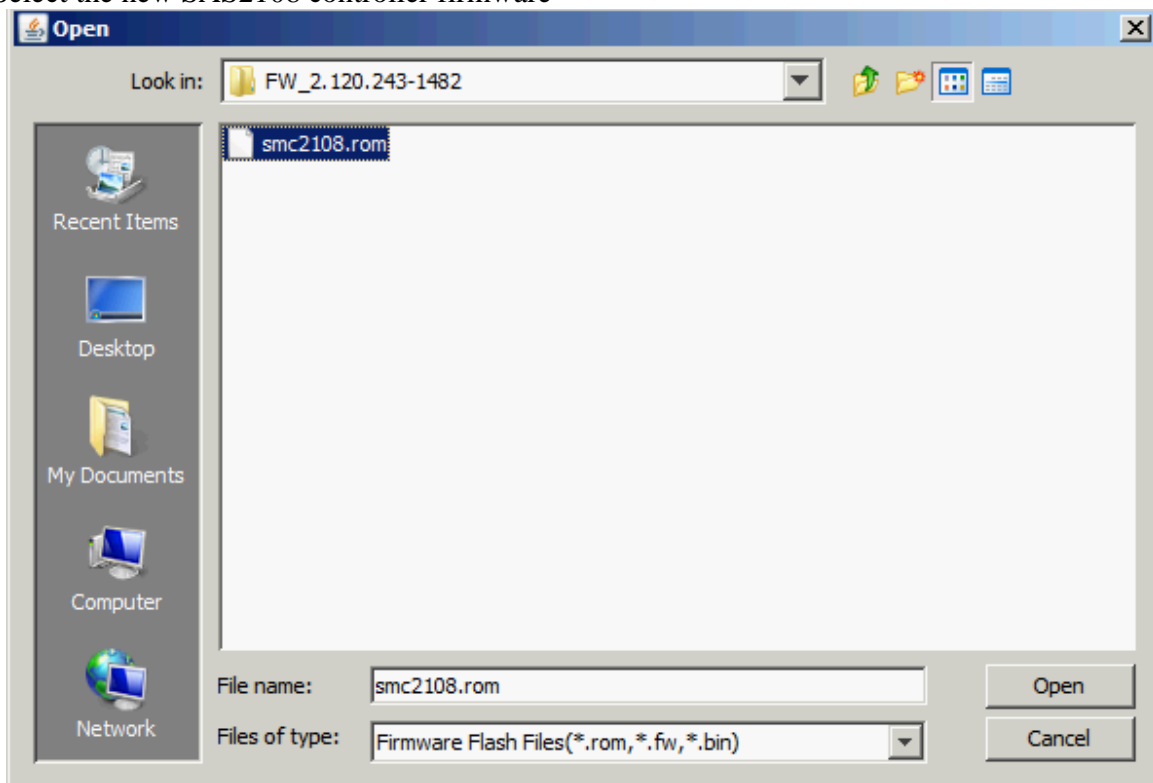
1) Open MSM, Right click on Supermicro SMC2108 controller to be updated and click Update Controller Firmware



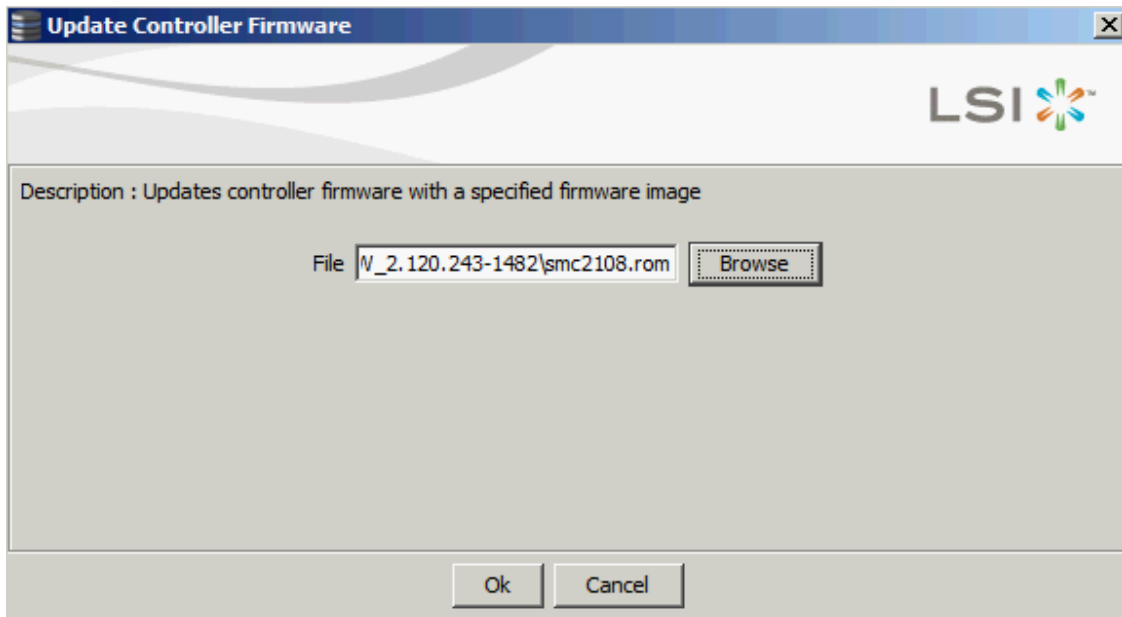
2) Click Browse to search for new firmware



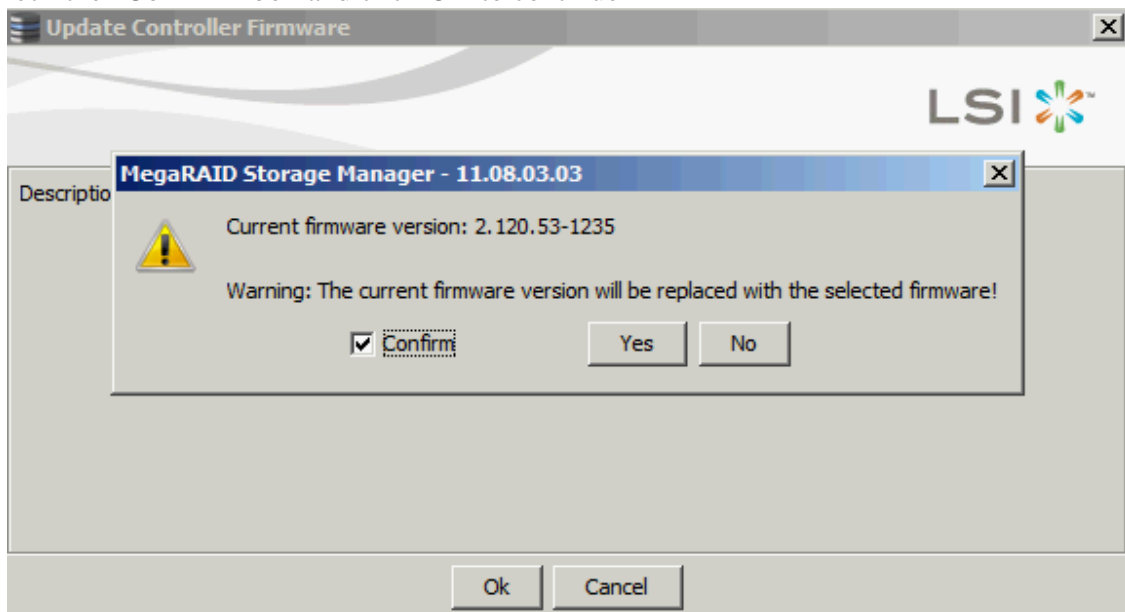
3) Select the new SAS2108 controller firmware



4) Click OK to continue

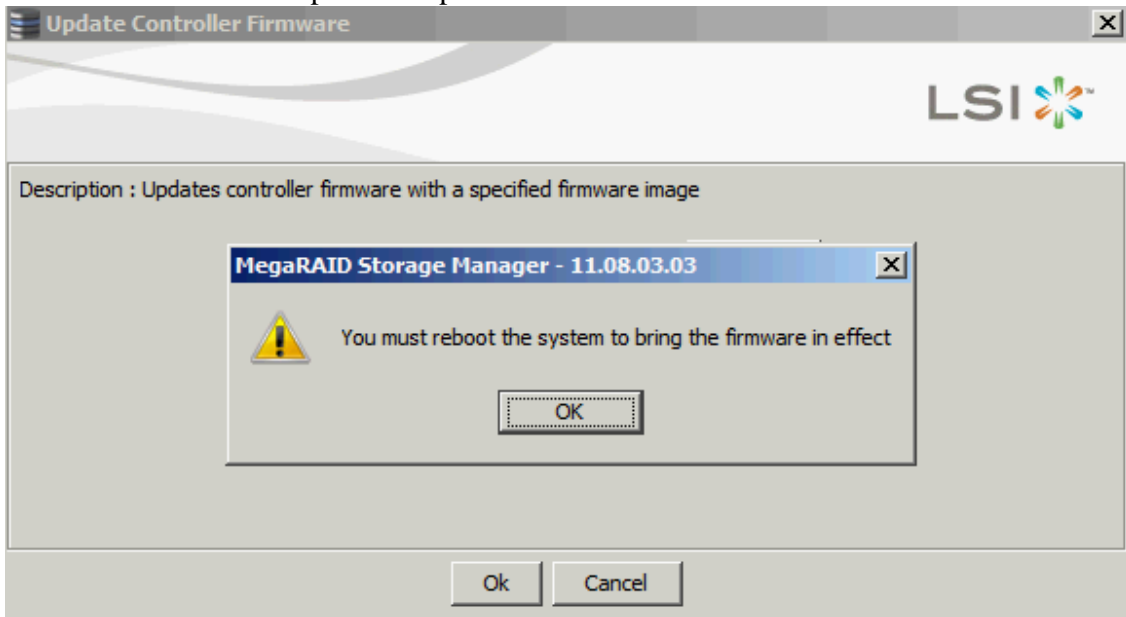


5) Check the “Confirm” box and click OK to continue



*** Wait for around 1~2 minutes to complete

6) Click OK once firmware update completed



7) Reboot the system and check firmware version in controller OPRM banner during boot

```

LSI MegaRAID SAS-MFI BIOS
Version 3.24.00 (Build October 26, 2011)
Copyright(c) 2011 LSI Corporation

HA -0 (Bus 4 Dev 0) Supermicro SMC2108
Battery Status: Not present

PCI SLOT ID LUN VENDOR    PRODUCT                REVISION    CAPACITY
-----
2          LSI      Supermicro SMC2108    2.120.243-148  512MB
2          26 0    ATA      ST3500320NS          SN06        476940MB
2          0  LSI      Virtual Drive        RAID0        475883MB
1 Virtual Drive(s) found on the host adapter.

1 Virtual Drive(s) handled by BIOS
Press <Ctrl><H> for WebBIOS or press <Ctrl><Y> for Preboot CLI
    
```

8) Check firmware version using MSM in OS

