![SUPERMICRO]

LSI SAS2208 Controller Firmware Update Procedure

*** Firmware file Name: smc2208.rom
*** Utility: MegaCLI.exe

Two methods to flash SAS2208 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 SMC2208.bat file.
    C:\>Megacli –AdpFwFlash –f smc2208.rom -a0

ex) SAS2208 firmware flash via MegaCLI utility

```
C:\SAS2208\FW_318~1.04->MegaCLI.exe -AdpFwFlash -f SMC2208.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 SMC2208
Vendor ID: 0x1000, Device ID: 0x005B

Package version on the controller: 23.2.1-0033
Package version of the image file: 23.5.0-0027
Download Completed.
Flashing image to adapter...
Adapter 0: Flash Completed.

Exit Code: 0x00
```

ex) SAS2208 firmware flash via batch file (smc2208.bat file include above command)

```
C:\SAS2208\FW_318~1.04->dir

 Volume in drive C is HO LEE
 Volume Serial Number is 543E-C63D
 Directory of C:\SAS2208\FW_318~1.04-

.             <DIR>         04-16-12   1:51p
..            <DIR>         04-16-12   1:51p
MEGACLI  EXE      753,664   04-11-12   8:46a
RELEAS~1 TXT          505   04-16-12  12:27p
SMC2208  BAT          434   04-16-12  12:25p
SMC2208  FW     8,388,608   03-19-12   5:12p
MEGASAS  LOG        1,496   04-27-12  10:26a
2208DC   FW     8,388,608   04-03-12   2:48p
         6 file(s)    17,533,315 bytes
         2 dir(s)  1,863,221,248 bytes free

C:\SAS2208\FW_318~1.04->SMC2208.BAT
```

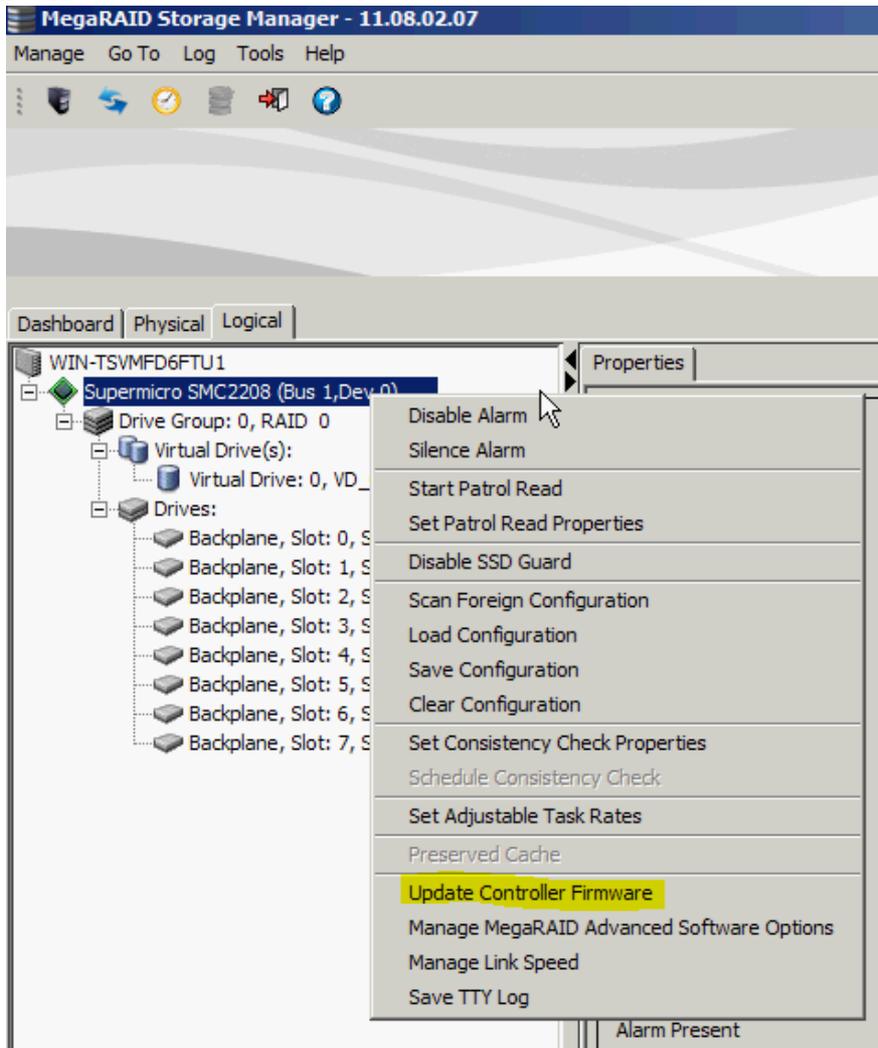2) Reboot the system and check firmware version in controller OPROM banner during boot and in MSM

```
LSI MegaRAID SAS-MFI BIOS
Version 5.32.00 (Build February 02, 2012)
Copyright(c) 2012 LSI Corporation

HA -0 (Bus 1 Dev 0) Supermicro SMC2208
Battery Status: Not present

PCI SLOT ID LUN VENDOR     PRODUCT                    REVISION      CAPACITY
-------- -- --- ------     -------                    --------      --------
0                   LSI    Supermicro SMC2208        →3.180.05-1562 1024MB
0         8  0     TOSHIBA MK4001GRZB                 0108          381554MB
```
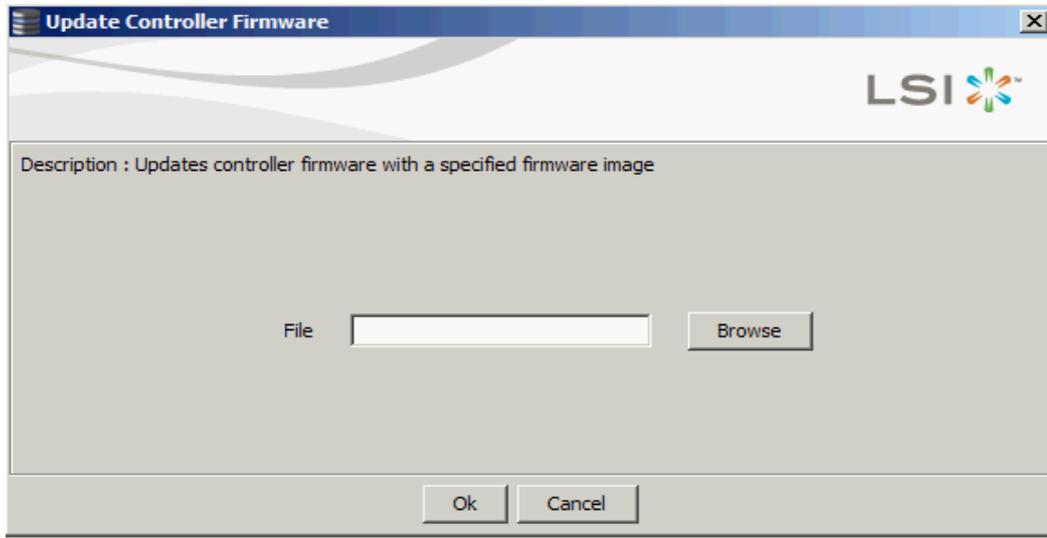
2. Using MegaRAID Storage Manager utility under OS

1) Open MSM, Right click on Supermicro SMC2208 controller to be updated and click Update Controller Firmware

2) Click Browse to search for new firmware

3) Select the new SAS2208 controller firmware
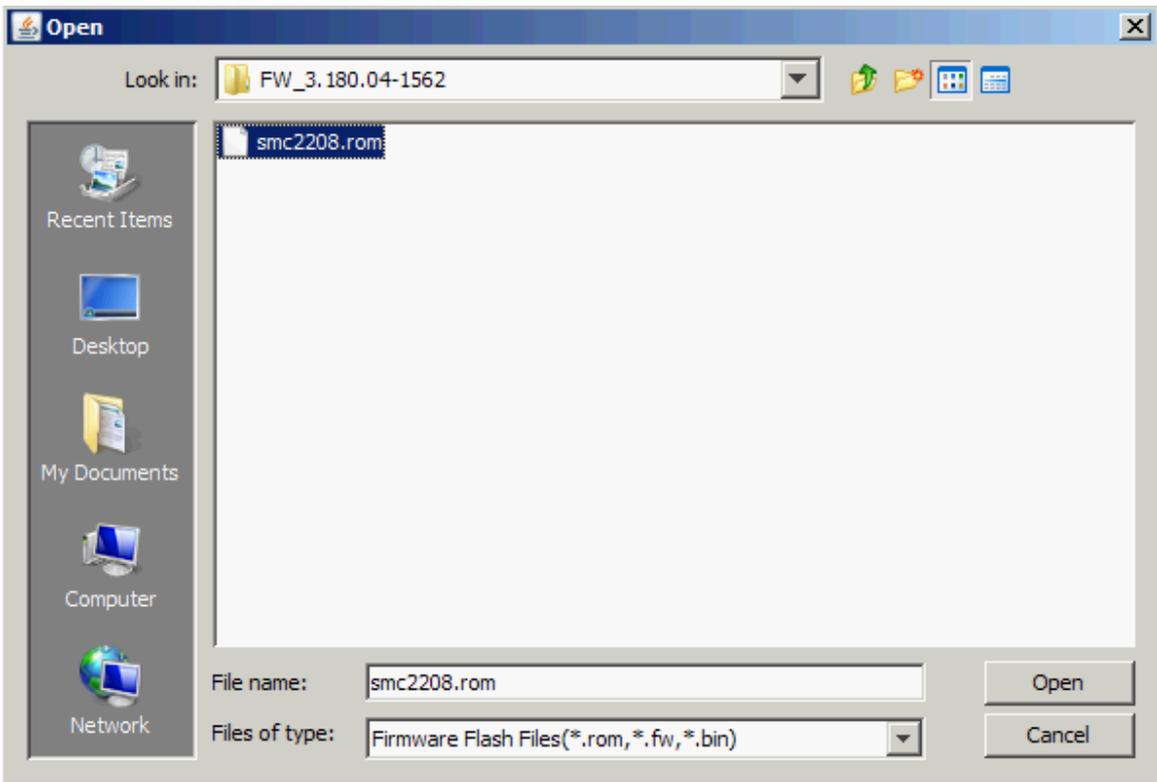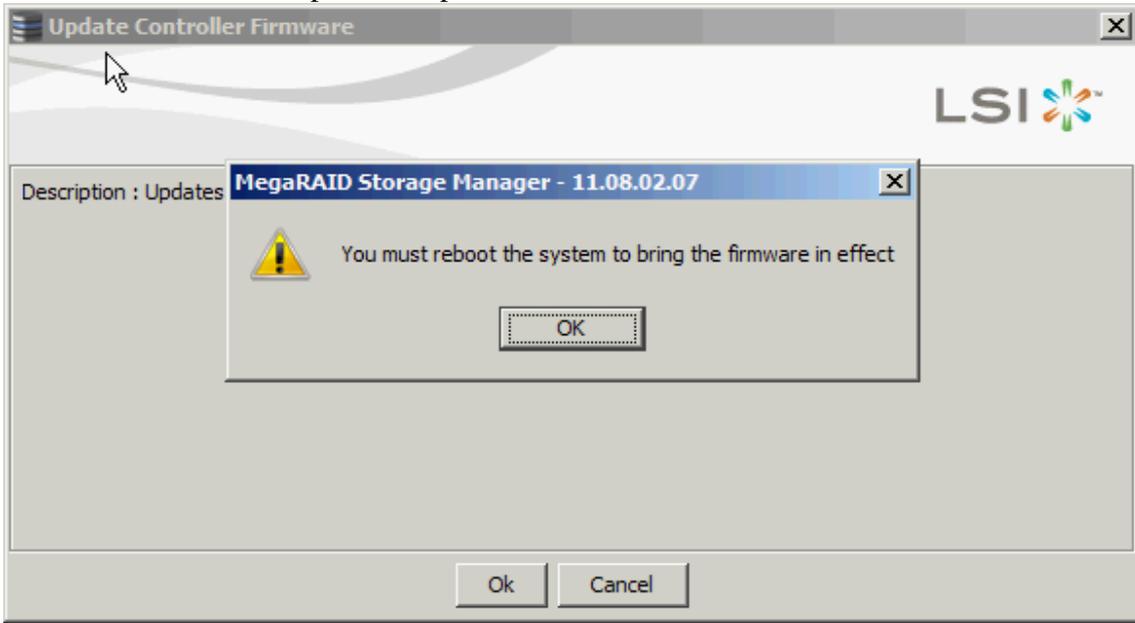
4) Click OK to continue
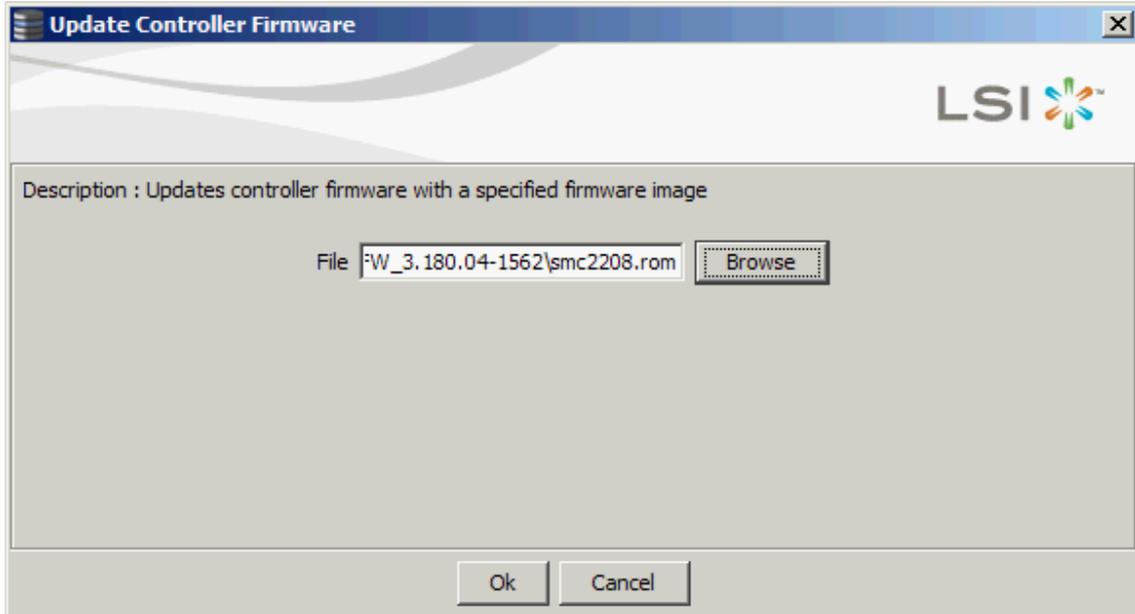
5) Check the "Confirm" box and click OK to continue
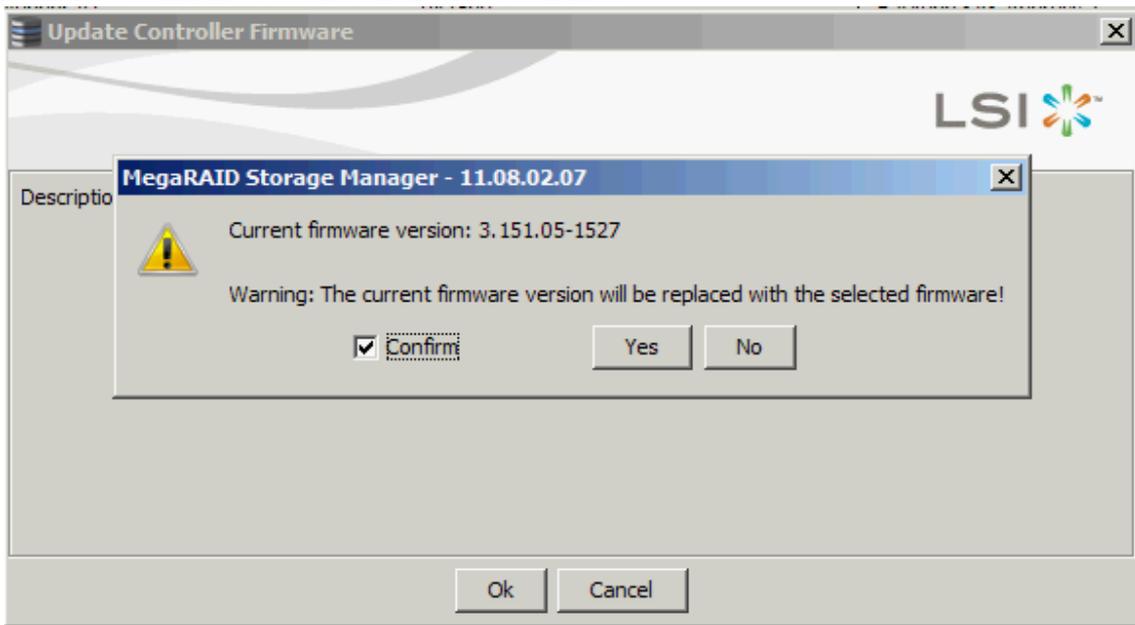
*** Wait for around 1~2 minutes to complete

6) Click OK once firmware update completed

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

8) Check firmware version using MSM in OS