

# 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 HD 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

```

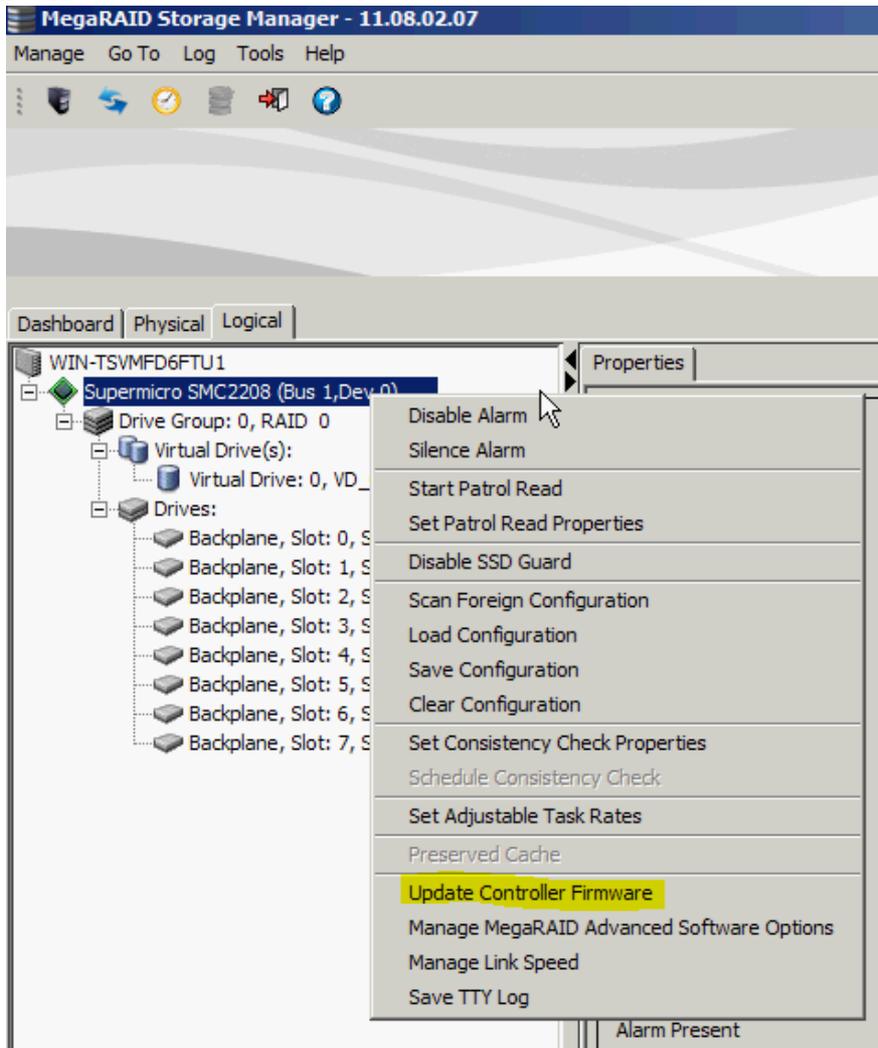
LSI MegaRAID SAS-MFI BIOS
Version 5.32.00 (Build February 02, 2012)
Copyright(c) 2012 LSI Corporation

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

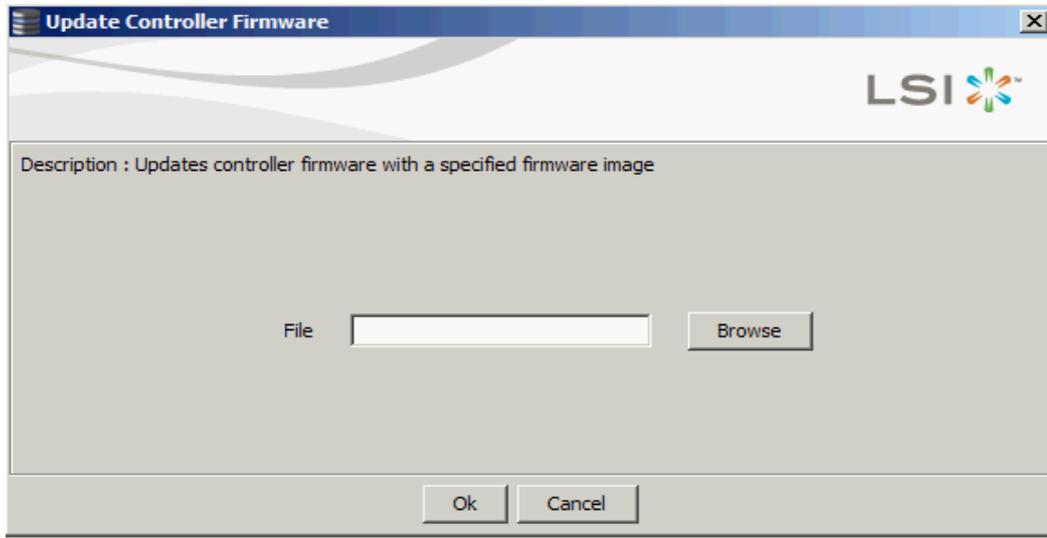
PCI SLOT ID LUN VENDOR PRODUCT REVISION CAPACITY
-----
0 0 0 LSI Supermicro SMC2208 ->3.180.05-1562 1024MB
0 8 0 TOSHIBA MK4001GR2B 0108 381554MB
    
```

**2. Using MegaRAID Storage Manager utility under OS**

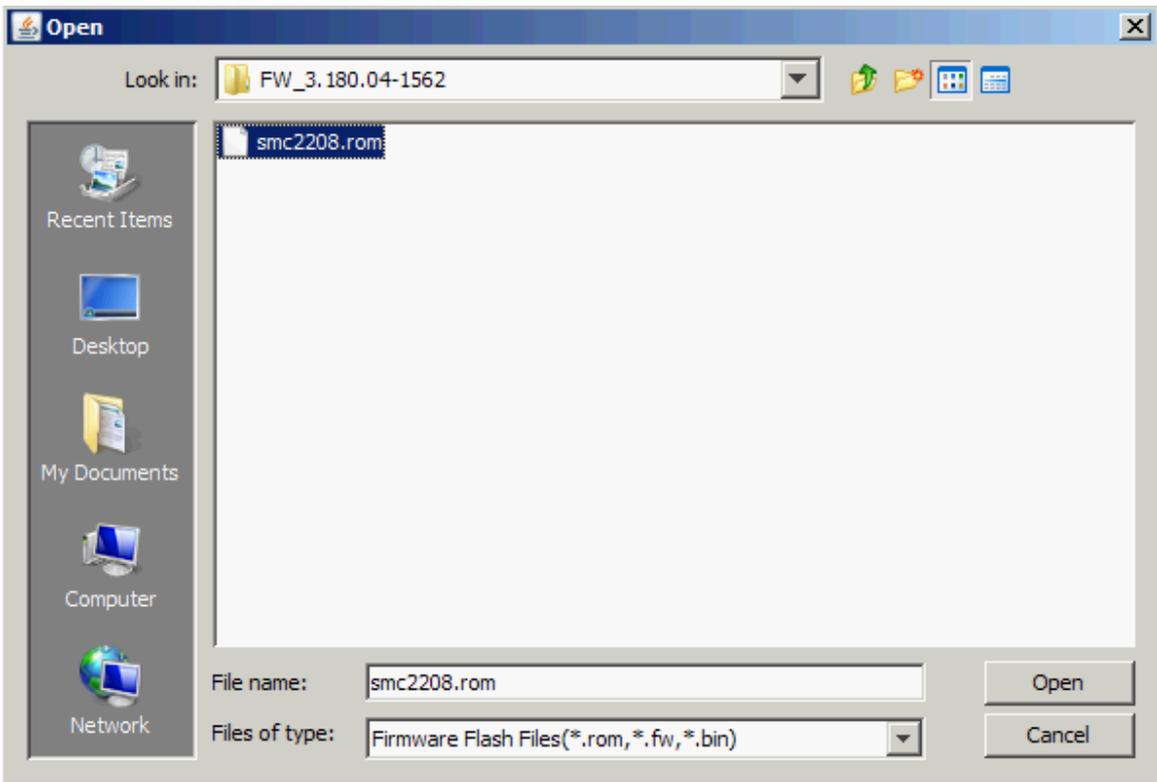
1) Open MSM, Right click on Supermicro SMC2208 controller to be updated and click Update Controller Firmware



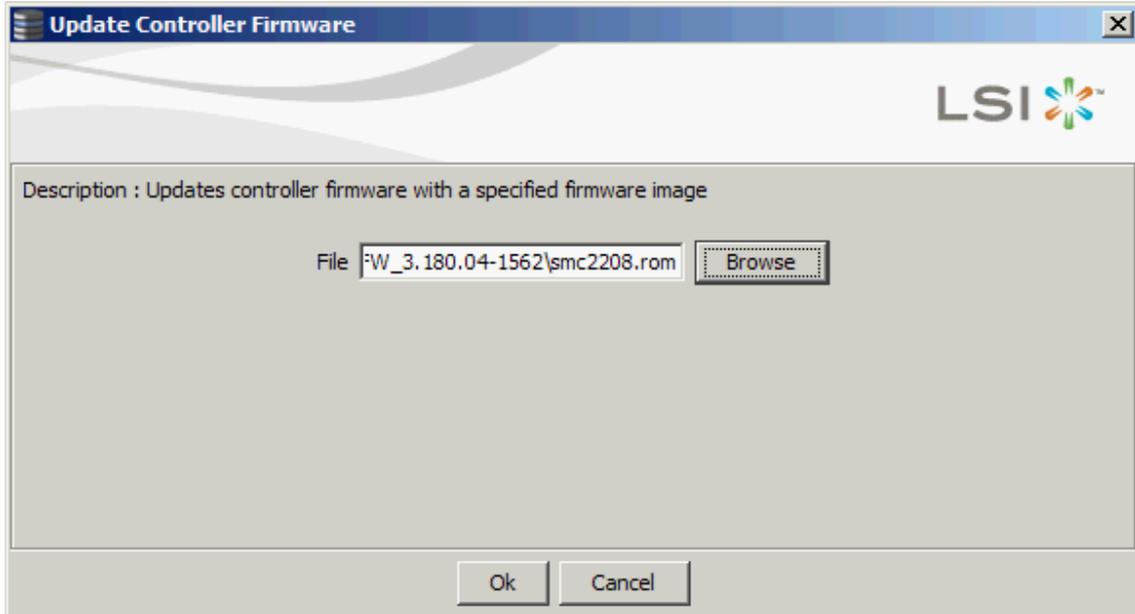
2) Click Browse to search for new firmware



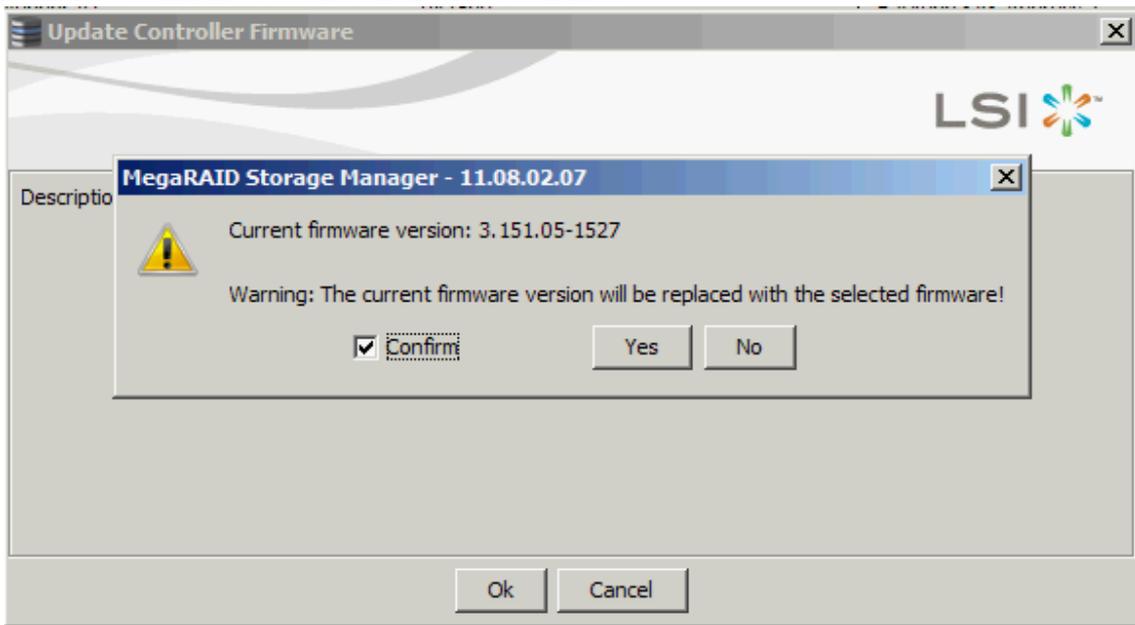
3) Select the new SAS2208 controller firmware



4) Click OK to continue

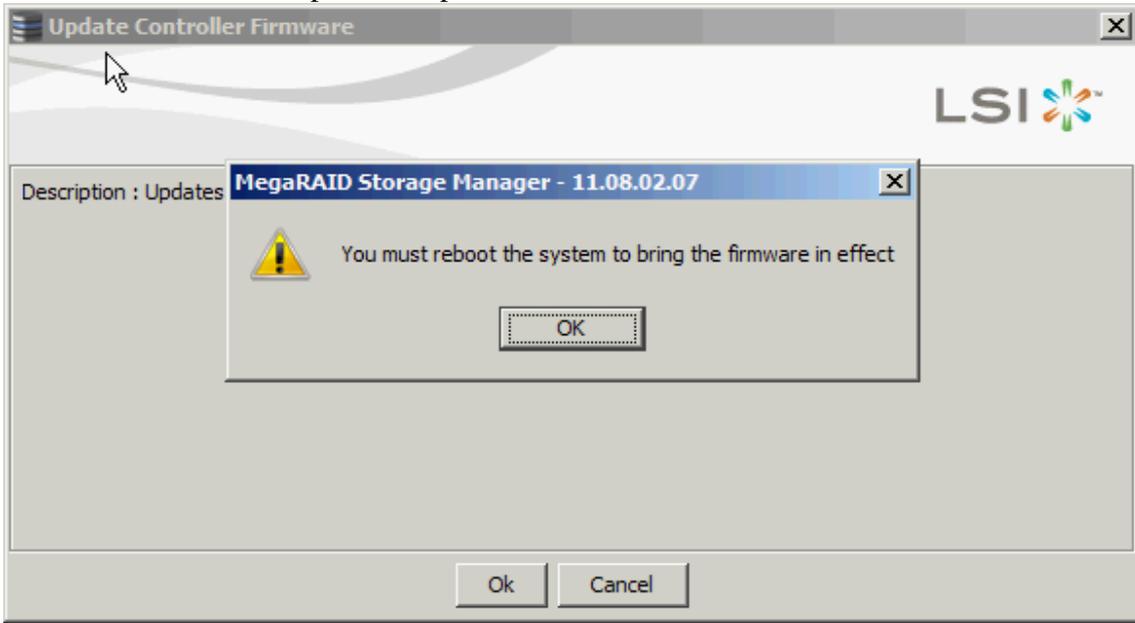


5) Check the “Confirm” box and click OK to continue



\*\*\* 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

```

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
0 8 0 TOSHIBA MK4001GRZB 0108 381554MB
0 9 0 TOSHIBA MK4001GRZB 0108 381554MB
0 10 0 TOSHIBA MK4001GRZB 0108 381554MB
0 11 0 TOSHIBA MK4001GRZB 0108 381554MB
0 12 0 TOSHIBA MK4001GRZB 0108 381554MB
0 13 0 TOSHIBA MK4001GRZB 0108 381554MB
0 14 0 TOSHIBA MK4001GRZB 0108 381554MB
0 15 0 TOSHIBA MK4001GRZB 0108 381554MB
Press <CTRL><P> to pause or <CTRL><U> to skip_
    
```

8) Check firmware version using MSM in OS

The screenshot shows the MegaRAID Storage Manager (MSM) interface. The left sidebar displays a tree view of the system components, including the RAID controller and its virtual drives. The main area shows the 'Properties' window for the Supermicro SMC2208 controller. The 'Firmware Version' is highlighted in yellow and is 3.180.05-1562. Below the properties window, there is a log table with columns for ID, Error Level, Date / Time, and Description.

ID	Error Level	Date / Time	Description
44	[Information, 0]	2012-04-27, 10:43:18	Controller ID: 0 Time established since power on: TIME 2012-04-27, 10:43:18 136 Seconds
10000	[Information, 0]	2012-04-27, 10:43:13	Successful log on to the server User: administrator, Client: 172.23.133.238, Access Mode: Full, Client Time: 2012-04-27,10:43:13
388	[Information, 0]	2012-04-27, 10:42:01	Controller ID: 0 Host driver is loaded and operational