

MegaRAID Controller Firmware Update Procedure

*** Firmware file Name: smc[xxxx].rom
 *** Utility: StorCLLeFi

Two methods to flash MegaRAID firmware

1. StorCLI Utility
2. MegaRAID Storage Management Utility

1. Using StorCLI under UEFI

1) Boot from USB key and use following command or run SMC[xxxx].nsh file.
 fs0:\>storcli.efi /c0 download file=smc[xxxx].rom

ex) MegaRAID firmware flash via StorCLI utility

```
fs0:\BIOS\3108\MR6.13\UPDATE_4.670.00-6500> storcli.efi /c0 download file=smc3108.rom
Download Completed.
Flashing image to adapter...
Controller = 0
Status = Success
Description = F/W Flash Completed. Please reboot the system for the changes to take effect

Current package version = 24.15.0-0018
New package version = 24.18.0-0021

fs0:\BIOS\3108\MR6.13\UPDATE_4.670.00-6500> _
```

ex) MegaRAID firmware flash via batch file (smc[xxxx].nsh file include above command)

```
fs0:\BIOS\3108\MR6.13\UPDATE_4.670.00-6500> dir
Directory of: fs0:\BIOS\3108\MR6.13\UPDATE_4.670.00-6500

    02/28/17  05:09p <DIR>          4,096  .
    02/28/17  05:09p <DIR>          4,096  ..
    02/24/17  02:52p                589  ReleaseNote.txt
    02/24/17  03:19p                45  smc3108.nsh
    12/23/16  03:35a          10,092,544  smc3108.rom
    11/18/16  09:50a           2,659,008  storcli.efi
           4 File(s)  12,752,186 bytes
           2 Dir(s)

fs0:\BIOS\3108\MR6.13\UPDATE_4.670.00-6500> smc3108.nsh
smc3108.nsh> storcli.efi /c0 download file=smc3108.rom
Download Completed.
Flashing image to adapter...
Controller = 0
Status = Success
Description = F/W Flash Completed. Please reboot the system for the changes to take effect

Current package version = 24.15.0-0018
New package version = 24.18.0-0021

fs0:\BIOS\3108\MR6.13\UPDATE_4.670.00-6500> _
```

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

```

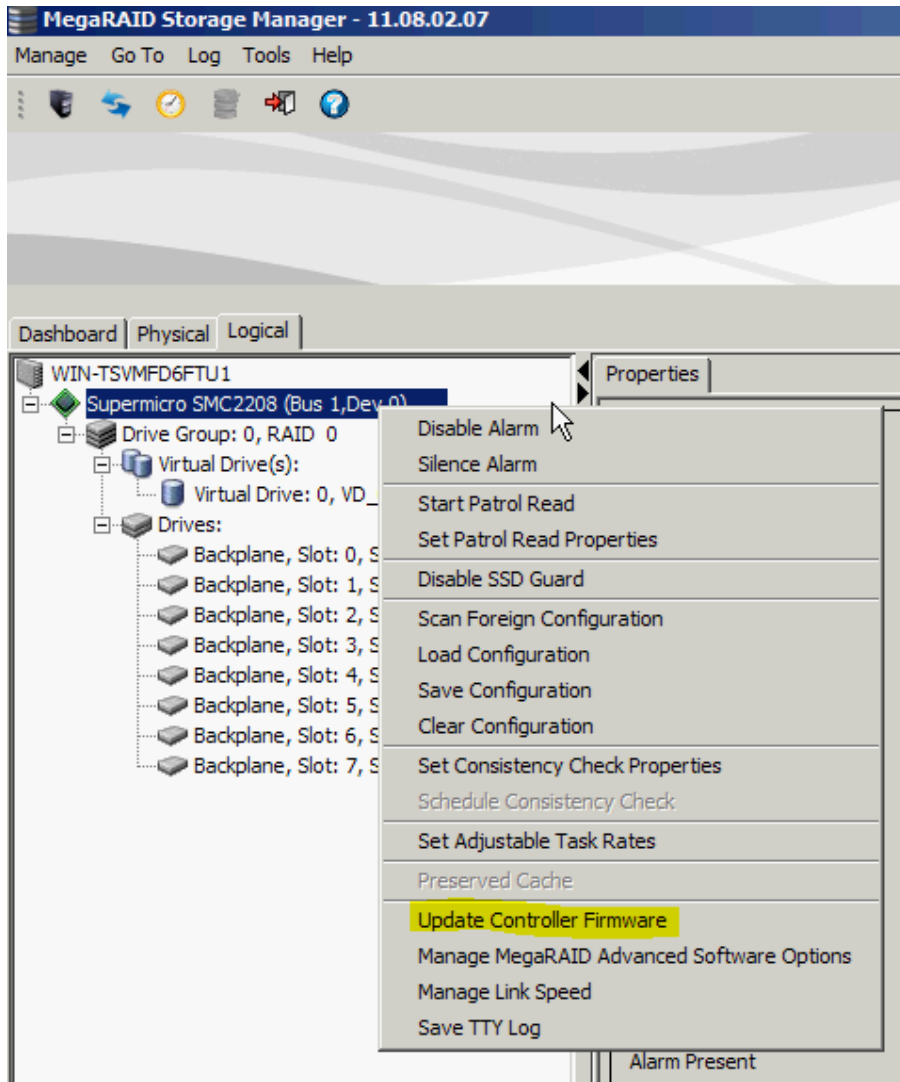
LSI MegaRAID SAS-MFI BIOS
Version 5.32.00 (Build February 02, 2012)
Copyright(c) 2012 LSI Corporation

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

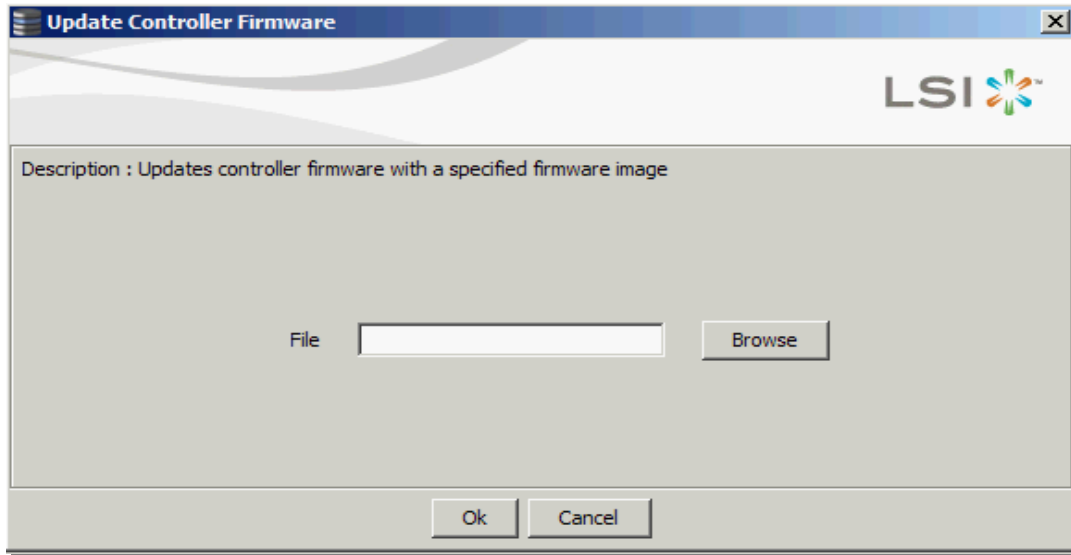
PCI SLOT ID LUN VENDOR PRODUCT REVISION CAPACITY
-----
0 0 LSI Supermicro SMC2208 ->3.180.05-1562 1024MB
0 8 0 TOSHIBA MK4001GR2B 010B 381554MB
    
```

2. Using MegaRAID Storage Manager utility under OS

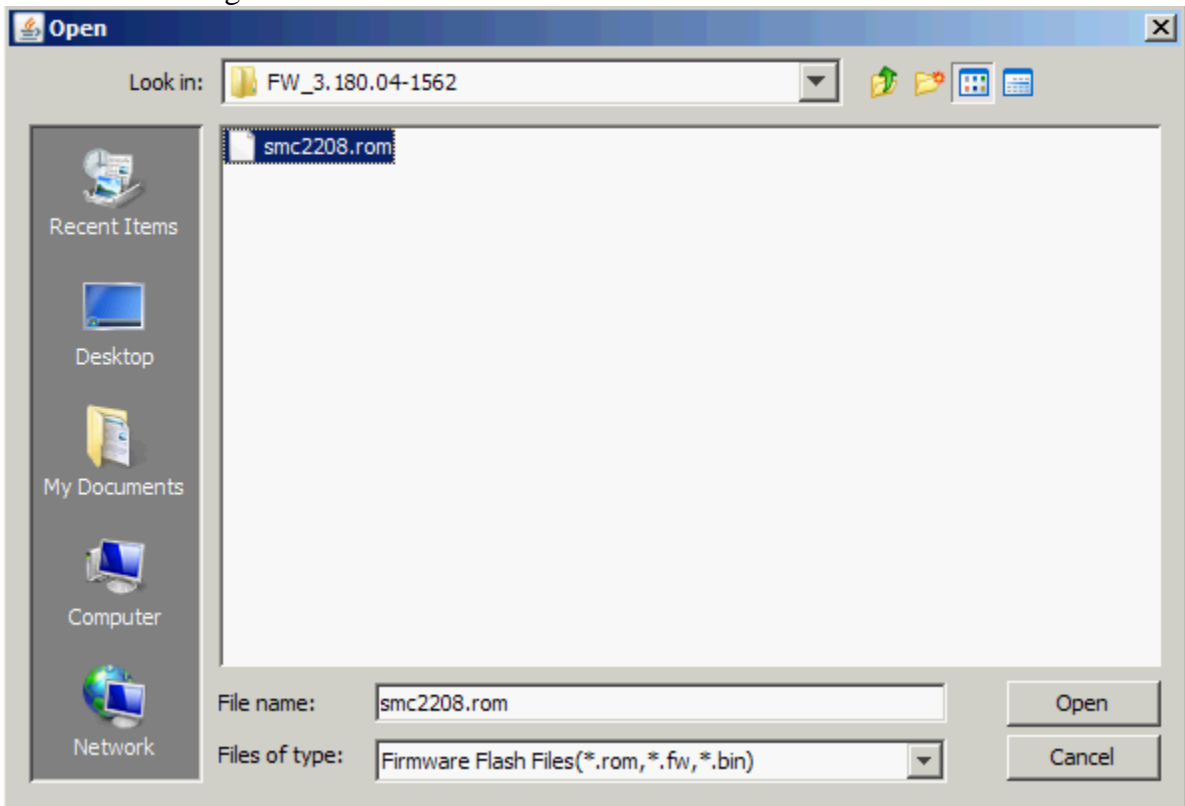
1) Open MSM, Right click on Supermicro MegaRAID controller to be updated and click Update Controller Firmware



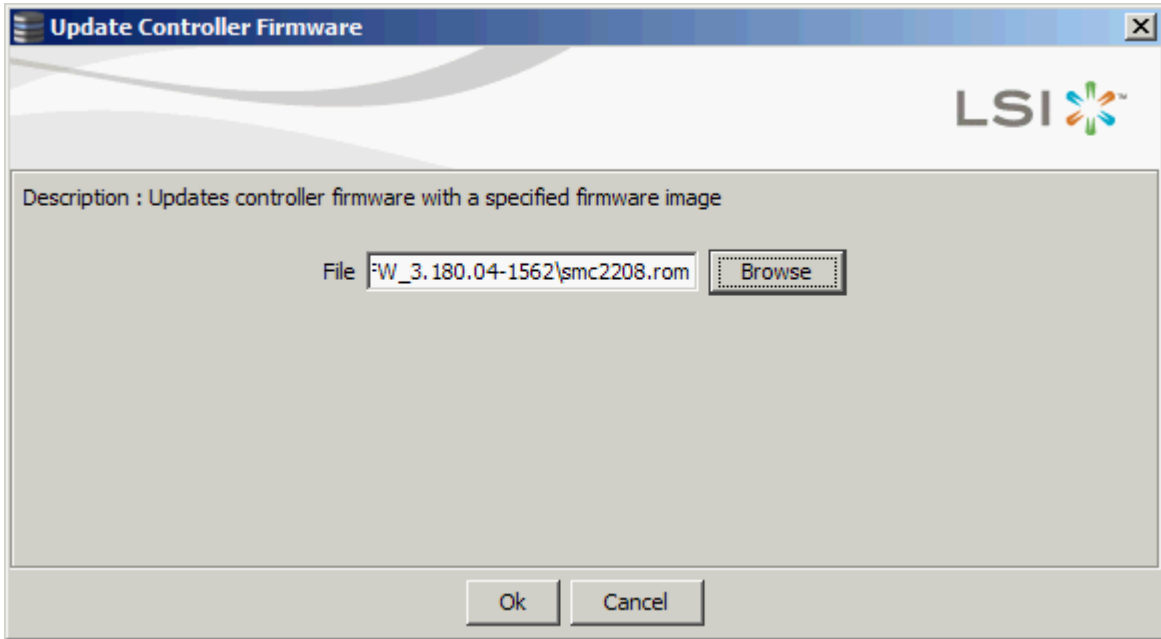
2) Click Browse to search for new firmware



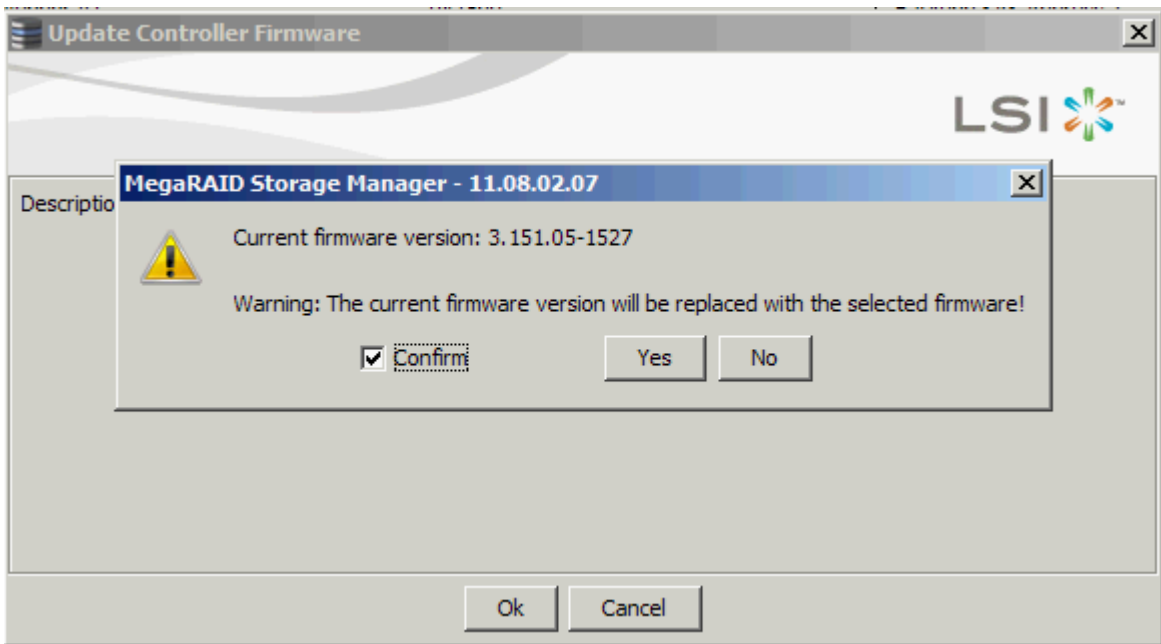
3) Select the new MegaRAID controller firmware



4) Click OK to continue

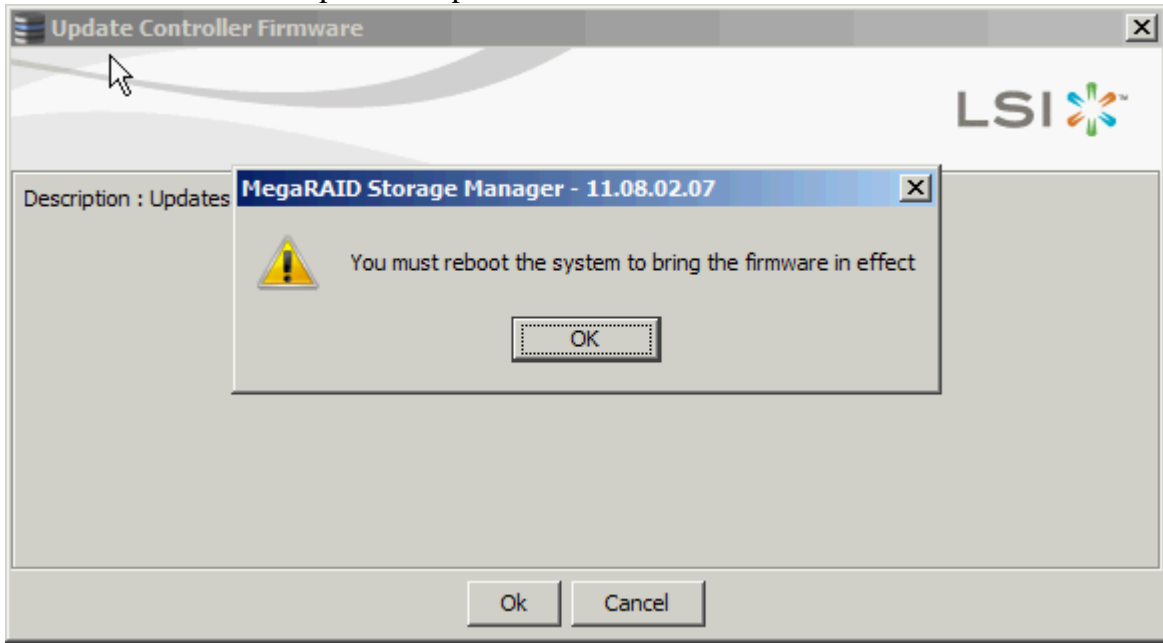


5) Check the “Confirm” box and click OK to continue



*** 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 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          LSI         Supermicro SMC2208    3.180.05-1562  1024MB
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 interface. On the left, a tree view shows the hardware configuration under 'WIN-TSVMFD6FTU1', including a RAID 0 group and eight 372.611 G SSDs. The main area displays the 'Properties' for the 'Supermicro SMC2208' controller. The 'Firmware Version' is highlighted in yellow and is 3.180.05-1562. Below the properties is a log table with columns for ID, Error Level, Date / Time, and Description.

General		Firmware Package Version	
Product Name	Supermicro SMC2208	Firmware Package Version	23.5.0-0027
Serial No		Firmware Version	3.180.05-1562
Vendor ID	0x1000	Firmware Build Time	Mar 08 2012 15:56:27
SubVendor ID	0x15d9	Backend SAS Address 0	0x500003934C88005A
Device ID	0x5b	Backend SAS Address 1	0x500003934C88008E
SAS Address	5003048007064400	Backend SAS Address 2	0x500003934C88001E
Device Port Count	8	Backend SAS Address 3	0x500003934C88005E
Host Interface	PCIe	Backend SAS Address 4	0x500003934C88009A
Metadata Size	512 MB	Backend SAS Address 5	0x500003934C88007A
Host Port Count	0	Backend SAS Address 6	0x500003934C880012
FRU		Backend SAS Address 7	0x500003934C880046
Alarm Present	Yes	Correctable ErrorCount	0
Alarm Enabled	Yes	Memory uncorrectable count	0
Cache Flush Interval	4 sec	Cluster Enable	No
		Cluster Active	No

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
389	[Information, 0]	2012-04-27, 10:42:01	Controller ID: 0 Host driver is loaded and operational