
Raidtec CS3102 Release Notes

Firmware version 0220

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Distribution: Tech Web / Admin CD

Raidtec
SOLUTIONS

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1 Raidtec CS3102 Release Notes

These release notes apply to::

Raidtec CS3102 Controller Firmware

Release Date: **20 June 2006**
Current version: **0220**
Previous version: **0200**

2 Compatibility

This firmware is used with the following:

- Raidtec CS3102 SCSI controller.
- Raidtec Manager™ administration software version 2.0 or later.

The controller firmware is compatible with the following operating systems:

- Windows 2000 / 2000 server
- Windows 2003 / 2003 server
- Apple Mac OS X Server (Panther / Tiger)

3 Recommended Field Action

Recommend update -> CS3102 with firmware v111 (May 2005) and v121 (January 2006)
Mandatory update -> CS3102 with firmware v200 (March 2006)

4 Installation of Raidtec CS3102 firmware

This revision of firmware is pre-installed on all Raidtec CS3102 controllers shipped from 21st June 2006 onwards.

If new installation or update is required, then please see the following instructions.

- 4.1 Using Raidtec Manager version 2.0 or higher, select 'Administration Menu' > 'Update'.
- 4.2 Click the 'Check Internet for Updates' button to see a list of the available updates for the system.
- 4.3 Select the required firmware from the list of available files by checking its 'Download' box.
- 4.4 Click the 'Download Updates' button to download the firmware to the Administrator's computer.
- 4.5 When prompted to 'Update Firmware Now', select 'Yes'; this will open the 'Administration' > 'Service Options' > 'Controller Services' screen.
- 4.6 To upgrade the firmware using the newly downloaded file, click the 'Upgrade Controller' button.
- 4.7 Select 'CS3102_0220_FW.bin' from the list of binary files offered.
- 4.8 Click on 'Yes' to confirm the new binary file details – the upgrade will now proceed.
- 4.9 When prompted, select 'Yes' to reset the controller; thus completing the firmware installation.

The latest version of the CS3102 firmware may also be downloaded from the Plasmon Technical Support website:

www.plasmontech.com/customer/cs3102.html

The appropriate firmware bin file is stored on the Administrator's computer. Following the procedure described above, in 4.2, click the "Display Offline Updates" button and then continue as described above.

5 Fixes in this Raidtec CS3102 firmware

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- 5.1 All fixes prior to this version are incorporated including those from v0200.
 - a. Raidtec CS3102 and FS3102 use the same firmware code base from v0200 on.
 - b. Raidtec Manager Broadcast IP address identification. Provides faster location of available CS3102 and FS3102 systems that are accessible for Remote Management. Broadcast requires Raidtec Manager v2.2 or later.
 - c. Adaptec 29160 SCSI HBA compatibility added
 - d. Format Partition under Windows – it is no longer necessary to select the “Quick Format” option in Raidtec Manager when formatting a logical volume.
- 5.2 Removed v0200 “front cache” module completely. Reverted to the proven v121 RAID code in order to fully eliminate a very small risk of data corruption.
- 5.3 Disable SMART on all SATA disks - occasionally the SMART function on some disk drives may cause the disk drive to be inaccessible for up to 10 seconds substantially disrupting the performance of the RAID especially if SMART is enabled on some drives and disabled on others
- 5.4 Resolved an unusual “Sense data when no sense condition exists” condition to improve WHQL compliance
- 5.5 Changed the “update firmware write buffer” command to eliminate the rare occurrence where a SCSI controller firmware could be corrupted during system boot.
- 5.6 Improved Technical Support’s Command Line Interface functionality by correcting the “timeout” value in “Show Disks”.
- 5.7 Enabled BBM recovery and ensured that the Write Data Buffer contents are always retained in the event of a SCSI controller reset.
- 5.8 Eliminate rare possibility of the LSI SCSI chip causing the SCSI controller to hang by ensuring that the LSI ASIC resets properly if it should get hardware errors.

6 Known issues in this Raidtec CS3102 firmware

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- 6.1 **The controller fault LED does not light when the buzzer is disabled**

When the buzzer is disabled, the ‘Fault’ LED on the back of the controller does not light when a fault is detected. Raidtec Manager will continue to log the warning in the event log and display a new warning message in the status bar.
- 6.2 **A faulty disk is detected but not loaded at startup**

If the firmware detects a faulty disk on startup (i.e. a disk it cannot read), the disk will not be displayed in the list of available disks. However the disk is not marked as faulty, therefore the blue ‘Presence’ LED on the disk drive is on but Raidtec Manager reports that the disk is not present.
- 6.3 **Monthly Verify Schedules**

In some cases, a ‘Monthly Verify Schedule’ will run daily instead of monthly.
- 6.4 **Ensuring Mapping changes are applied**

In some instances, it is necessary to reboot the controller to apply the last mapping modification.
- 6.5 **Ensuring SCSI ID changes are applied**

In some cases, it is necessary to resave the current port mapping after having changed the SCSI ID of a logical volume.



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