Firmware 3.34A06

Infortrend®

New Release and Update Information

Firmware Core: 3.34A06

Compatible RAIDWatch version: 2.0

Software updates are available at ftp.infortrend.com.tw/RAIDWatch/2.0

1. Overview

New features:

1. Scheduled Media Scan

    Revision 3.34 allows Media Scan to be scheduled starting at a specified start time and repeated at regularly timed intervals. The start time and time intervals can be selected from drop-down menus. Start time is manually entered using its numeric representatives in the following order [MMDDhhmm[YYYY]], and it reads the date and time set for the controller's real-time clock.

    The selectable time intervals (the Execution Period) range from one (1) second to seven (7) weeks.

    Each such schedule can be defined to operate on individual hard drives, all members of a specified logical drive, or members of selected logical drives. Each schedule can include up to five (5) logical drives. The RS-232C terminal and RAIDWatch revision 2.0 will support this functionality.

2. Individual LD JBOD

    This OEM feature is implemented by the IAPPEND utility. This allows assignment of individual LDs (logical drives) to serve as a JBOD by automatically creating an LD using a drive just scanned in and then mapping the newly created LD to a host channel ID/LUN.

As predefined by the IAPPEND file, one or several hard drives are automatically configured into an LD. For example, a 16-bay JBOD may present its capacity as sixteen (16) NRAIDs to the host ports. These LDs are then associated with host ID/LUNs. In this way, it does not require a trained technician to setup or rebuild a logical drive whenever a failed or used drive needs to be replaced. In cases like CCTV cameras installed in subway stations, regular operation may often require non-technicians to replace hard drives.

3. Drive-side Rerouting Support

Drive-side rerouting support is a special implementation for the combination of the ES A16F-R SATA RAID and SATA JBOD. Featuring two (2) FC host channels and one (1) RCC route between partner controllers, the A16F-R has only one (1) FC loop left for drive connection. Each RAID controller has an FC link to the drive enclosure. In the diagram shown below, rerouting is required in case any drive-side link becomes broken.
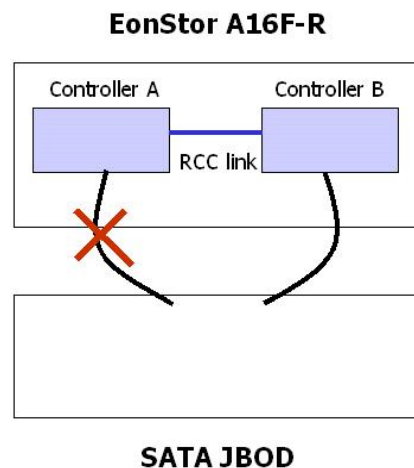
Note that the two (2) FC links from the partner controllers are looped together into a single drive-loop. Once I/O timeout is detected, I/O traffic is rerouted through the surviving link to the JBOD. Performance drag will be experienced and the controllers will continuously poll the drive loop for a restored link.

4. Perpetual Calendar

Implemented display of a perpetual calendar with user interface.

2. Applicable Products

Firmware 3.34A06 is applicable to the following subsystem:

Models	Corresponding Binary
EonStor F16F-R2A2-A	FA334A06_22_IFT_ESF16FR2A2A
EonStor F16F-R2A2	FA334A06_15_IFT_ESF16FR2A2
EonStor F12F-G2A2	FA334A06_16_IFT_ESF12FG2A2
EonStor F16F-S2A2	FA334A06_16_IFT_ESF16FS2A2
EonRAID 2510FS-4D	F52A334A06
EonRAID 2510FS-6D	F52A334A06
EonRAID 2510FS-4S	F52A334A06
EonRAID 2510FS-6S	F52A334A06
EonRAID 2510FS-4RH	F52A334A06
EonRAID 2510FS-6RH	F52A334A06

3. List of Problems Fixed

1. Logical drive initialization failure

   Fixed the bug that causes logical drive initialization to fail followed by an incorrect display of the "IDE Target ALERT: Data Overrun/Underrun" message when the optimization mode is set for Random I/Os.

2. Controller abnormal reset

   Fixed the bug that causes the controller to reset when configuring LUN Masking with no preset IDs on host ports.

3. Logical partitions can not be changed via LCD keypad interface

   Fixed the bug that disabled modification on logical partitions via LCD keypad interface.

4. Modem support on COM1 removed from terminal configuration menus

   As the title indicates.

5. Bug with Media Scan

   Media Scan failed to display the "bad block encountered" message when bad blocks are found during the scan process.

6. Incongruous display of partition information

Fixed the bug that causes incongruous display of logical partition information on LCD and terminal screen. LCD and terminal show different information about the same partition.