Release Notes for operating system and StorView* version 3.07.0012 enclosure management software installation for SuSE* Linux Enterprise Server 10, 32bit and 64bit OS

This procedure is applicable for Intel® Storage Server SSR212MC2RBR and SSR212MC2BR.

Contents of the package: storview-3.07.0012-jbi-sles9-32-en.tar

The document is divided into 3 sections.

SECTION 1: OS Installation
SECTION 2: StorView Installation
SECTION 3: Known issues
SECTION 4: Fixed in this release

SECTION 1: OS Installation

Prerequisite:

1) USB DVDrom or CD ROM Drive
2) USB floppy drive
3) SLES 10 CD media
4) Intel® RAID Controller SRCSAS144E driver for SLES10

Driver notes :
The drivers are available on Intel's support site at www.support.intel.com

Download the file : ESRT2_Linux_v.06.28.1110.2006.zip or newer

Installation Procedure :
This procedure is followed when user needs to install the Operating system on a fresh Embedded Server RAID device (OnBoard Motherboard Raid). For this kind of installation driver update disc is used at the starting of the installation and the installer will update the system with MegaSR driver images for the required kernels.

1) Create a RAID array (Raid 1)using the Intel Embedded Server RAID BIOS Console (Ctrl+E).
2) Boot the system using SLES 10 media (DVD/CD)
3) When first screen come up press F5 key to load a driver, select "YES" and then select installation menu option.
4) Insert LSI megaraid driver in the USB Floppy drive.
5) If the driver is installed successful you will see the message "*LSI Logic Megaraid Software raid module*" , click ok and continue installation.
6) During install process

a) ***Software section*** : Select

1) 32bit Runtime Environment
2) C/C++ Complier and tools
b) ***Disk partitioning section*** : select "*Custom partitioning (for experts)*" option.

It is very important that you MUST use PERSISTENT DEVICE NAMING and not device names.
The instructions for PERSISTANT DEVICE NAMING are as follows:

a) Select the partitions you have just created (one at a time)
b) Choose *Edit* and select *Fstab options.*
c) Select *Device_path* , (any option other than *device names* should provide persistant device naming).
d) Make sure the filed *[Mount By]* shows ***P*** , for each partition.
7) When the Basic installation finishes the system will prepare for initial reboot. *This is after installing selected packages from CD's, and after installing the boot manager.* Before rebooting the system a small window will pop up for 10 seconds before rebooting your system. Press **STOP** button to prevent rebooting the system.

Follow the procedure given below to install the Software RAID Stack at the time of Installation.

8) Press Ctrl+Alt+F2 and go to directory /update/000/install
   #cd /update/000/install
9) Run script update.post
   #./update.post2
10) Press Ctrl+Alt+F7 and select Ok in the Small window that show Now rebooting your system
11) System automatically reboots.
12) After the system boots up , the installation process continues . Insert the remaining CD's when prompted.
13) At ***Network configuration*** section disable Firewall.
14) Complete the installation process.

SECTION 2: StorView Installation

Part A: JAVA* Installation
Part B: Storview Installation.

Part A: Java Installation

1) Download JRE from http://www.java.com, *jre_1_5_0_10_linux_i586.rpm.bin or newer*
2) *# linux32 ./jre_1_5_0_1*_linux_i586.rpm.bin*
3) *# cd /usr/lib/firefox/plugins*
4) *# ln –s /usr/java/jre1.5.0_1*/plugin/i386/ns7/libjavaplugin_oji.so*
5) *# ls –al* ; should show the new linked library file
6) *# ldconfig*
7) *Preferable to use a newer version of firefox than the one ships with OS.*
8) *Follow this page for more updated info on java.com site* - **Linux download and installation instruction for the Java Runtime Environment (JRE)** *generally available at the following location -* *http://www.java.com/en/download/help/5000010500.xml#14*

Part B: Storview Installation:

Before installing Storview make sure you have setup your hostname properly.
 # hostname ; to view you present hostname
 # cat /etc/hosts ; make sure the hostname entry is available here

1) download Storview from www.support.intel.com
2) *# tar –xzf storview-3.07.0012-jbi-sles8-32-en.tar.gz*
3) *# linux32 ./StorviewInstall*
4) You should get the message "Installation Complete- no errors detected"
5) *# ps –ef | grep –i Storview*

Notes :

1) Access StorView on the local browser
2) http://localhost:9292
3) If Storview is not running start if from *# /etc/rc.d/init.d/StorView start.*
4) *# linux32* command can be ignored when installing JAVA and StorView on SLES 10 32-bit OS.

SECTION 3: Known issues

1) When using multiple ethernet connections, Storview connects via only one of these. If you disconnect the main cable you must then restart storview on the enclosure having first shut down the 2 storview services. If this port is disabled (through the system OS) or disconnected, Storview will not be able to start. The error message "Could not connect to service on 127.0.0.1, please ensure that the service is running and try it again" will be displayed. Note: if you disable the port through Storview, then Storview will be closed.
2) SSR212MC2R only - RAID card firmware can occasionally override user settings for drive LEDs. If you use storview to turn drive ident lights on and remove/replace a drive, RAID card can override your ident lights and may turn them off.
3) RAID card firmware can add warnings to the windows/linux event logs about temperature differentials. These messages are erroneous and can be ignored safely.
4) Enclosure firmware upgrade is not supported if an external storage expansion unit is connected to the Intel SRCSAS1444e RAID card.
5) Inserting a second (redundant) PSU with no live AC attached has the PSU reported as OK rather than AC Power fault.
6) After removing add-on NIC and installing a different add-on NIC, Storview reports wrong network status

SECTION 4: Fixed in this release

1) Chassis ident light is too dim to see.
2) Raw view decode misses of new vendor unique T10 in page 1 SES
3) StorView displays incorrectly for Power Supplies when one is removed.
4) raw view p2 does not decode PSu at all or other elements fully.
5) Storview settings should not show RAID function/option.
6) A Java Swing exception occurred while pulling drives from an enclosure.
7) Missing drives were shown as present when drives were pulled out of the enclosure. The enclosure was also shown as having an erroneous fault.
8) login problems after changing the servername in Rhel4
9) System settings shows raid created on the controller SRCSAS144E. System settings must show only system drives and not the VD on the raid controller.