

ENTERPRISE CLASS STORAGE OS for **EVERY** BUSINESS**IMPORTANT NOTE**

A Properly executed upgrade will preserve user data, but it is strongly recommended that you backup your data first

## Step 1. Preparing for the upgrade

The Product upgrade to DSS V6 can be purchased for iSCSI-R3, NAS-R3 and DSS. Please provide your current product name, serial number and licensed storage capacity when placing the purchase order for the upgrade to DSS V6.

## Step 2. Creating the installer on a USB-stick or bootable CD

The easiest way to get the new version of the software is to download the Trial Version (same executable as the full version) on our website. Please use the Open-E DSS V6 Trial version from the link below: (Please note: You will need to enter your email address and password).

<http://www.open-e.com/account/free-trial/>

The DSS V6 TRIAL version is available in a ZIP or ISO file. The ZIP file needs to be uncompressed and the contents copied onto a USB-stick or other boot-media (minimum 1GB). In order to make the media bootable, please change to the boot directory and run the bootinst.exe or bootinst.sh file accordingly for your OS. The ISO image can be burned onto a CD and then booted from CD-ROM drive. The ISO-image can be also used for remote boot, if remote server management is in place.

## Step 3. Checking version upgrade compatibility and saving your settings

Before you start the new DSS V6 installation, please check the following:

- If using VMware with iSCSI LUNs, PLEASE read the Open-E Knowledge Base article <http://www.kb.open-e.com/entry/672/>
- If Volume Replication is in use, please stop and delete the Volume Replication tasks in the GUI menu located in "CONFIGURATION" -> "Volume manager" -> "vol. replication". You will need to re-create and start Volume Replication tasks in DSS V6 after upgrade. If your current NAS-R3 is older than ver. 5.0 up42 build 3011 or iSCSI-R3 is older than ver. 5.0 up42 build 3009 or DSS is older than ver. 5.0 up42 build 3007, you will need to re-create volume replication meta-data. In order to re-create the volume replication meta-data please delete the meta-data before the upgrade and create new meta-data after upgrade. In order to delete meta-data please go to "CONFIGURATION" -> "Volume manager" -> "vol. groups" select a volume group on the left side of the screen, than in the action pull-down menu select expand (Note: in new software the menu option "expand" is replaced with "modify") the volume set for volume replication. Then please un-check the option box "Use volume replication" and click on apply.

- If Data Replication is in use, please stop the tasks in the GUI menu located in "MAINTENANCE" -> "backup" -> "Data replication".
- If snapshots are started, please stop them by clicking on stop button in the GUI menu located in "MAINTENANCE" -> " snapshot".
- If the built-in Backup is running, please stop the backup task in the GUI menu located in "MAINTENANCE" -> "backup" -> "Backup tasks". If your current NAS-R3 is older than ver. 5.0 up42 build 3011 or DSS is older than ver. 5.0 up42 build 3007 you will need to re-create the backup starting from the beginning.
- Please download current LOGs in menu "STATUS" -> "hardware" -> "Logs".
- Please download the current settings in the GUI menu located in "MAINTENANCE" -> "miscellaneous" -> "Save settings".

### **Step 4. Booting the installer from USB-stick or CD**

Shutdown the current system and boot the installer from a USB-stick or CD.  
Please set the system BIOS boot order to boot from your media first.

#### **IMPORTANT NOTE**

This software version can be run from different media! The built-in installer for Data Storage Software V6 can install the software on any bootable media. You can install this with the following media types: USB DOM (with Wear-Leveling support), IDE (ATA) DOM, SATA DOM, IDE (ATA) Hard Disk, SATA Hard Disk, SCSI Hard Disk or 2GB small LUN on a Hardware RAID (recommended).

The installer requires at least 1 GB of space and will use only the maximum amount of 2GB. If you install the software on media larger than 2GB, only 2GB will be used, the rest will remain unusable.

#### **If using a 2GB logical unit on hardware RAID as boot media:**

Only RAID controllers with multiple logical unit support can be used. Please create a small 2GB logical unit for DSS V6. When Running the DSS V6 installer you will need to select the 2GB logical unit as the bootable media. The rest of the RAID space can be used to create a another logical unit for user data. The following RAID controllers are supported as a bootable media device: MegaRAID, Smart Array, 3ware, Adaptec, ICP vortex, Areca.

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**There are three options for installing the DSS V6.**

**You can install DSS V6 over the current software version on the USB DOM or you can remove the current USB DOM from your system and replace it with new purchased USB DOM or prepare other boot media.**

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## Step 5. Installing the software upgrade over current version or preparing own boot media.

During the system start-up, the first boot menu will show the software version. Please press enter or it will skip automatically within 5 seconds to start.

### NOTE

**There is an option to run the memory test on the system by choosing "Run Memtest utility" in the first menu.**

In the second menu there are 3 menu options:

- 32bit system (2.6.27)
- 64bit system (2.6.27)
- **Run software installer**

In order to install DSS V6, please select: Run software installer.

In the software installer from the menu: "Please select the medium to install", please select the device on which DSS V6 will be installed on to. If you decide to install on your current USB DOM the installer will re-format the DOM and install DSS V6 on it from scratch.

### NOTE

**Please make the selection very carefully here! The installer will show all available storage devices, including those with user data. Please watch the partition/device size. USB DOM is about 1000 MB size. The user data partitions/devices are much bigger size. If you select a user data partition as a medium to install and confirm the prompt: "All data will be removed from destination medium" your data will be lost!**

## Step 6. Starting the software

Once the installation is done, please set the system BIOS (back) to boot from the destination media. The system will start with DSS V6. If you have purchased a new USB DOM or have prepared your own new boot media, please just replace your current DOM with the new one. If you encounter any boot errors, please set the system BIOS to boot from your media in the first position in the boot order.

### NOTE

If your current software was running with 32bit kernel, please select 32bit kernel in boot menu. Then in console tools press "Ctrl" + left "Alt" + "T", select "boot options" -> "system architecture" -> "32bit system". Then after apply, select: save changes. It is VERY important to do this; otherwise when DSS V6 is rebooted it will default to 64bit mode and NOT mount the 32bit formatted volumes.

## Step 7. Checking Volume groups unit status

Once DSS V6 is started with the proper kernel, you should see from the GUI menu located in "CONFIGURATION" -> "volume manager" -> "Vol. groups" that the unit status shows "in use". If the unit status shows a status of not supported, please follow steps in the note above.

## Step 8. Entering the purchased upgrade license key and restoring your saved settings

- Go to GUI menu "HELP" -> "about Data Storage Software V6" and in the key field of the function Extensions keys loader please enter the purchased upgrade license key. In order to avoid typo mistakes please use copy & paste.
- Go to GUI menu "MAINTENANCE" -> "miscellaneous" -> "Restore settings" and select your saved settings. Please select both "setup" and "configuration" options. After rebooting the system will start with the settings from prior to the upgrade. Please create the previous deleted tasks and start the stopped snapshots according to the upgrade requirements from point 3 above.
- Please reboot the system now. After reboot please check all setup and configuration settings. Please rerun or recreate removed tasks, backup databases or meta-data from step 3. If you face problems, please contact support.

## Step 9. Activating DSS V6

DSS V6 requires the administrator to activate the product. In order to complete activation, please go to the GUI menu "HELP" -> "about Data Storage Software V6", function: Product activation. We recommend online activation. Online activation require that your browser has an internet connection with configured gateway and DNS, and has TCP outgoing-port **10444** opened. In case the internet is not available or there are connection problems please continue with offline activation.

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