

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

This is the new installable version! The built-in installer can install the Data Storage Software V6 on any bootable media. You can use 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).

**NOTE**

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

**NOTE**

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

## Prepare an own USB-stick (or other media) to run DSS V6 Installer or TRIAL

Please uncompress the downloaded zip file onto an empty FAT or FAT32 formatted USB-Stick.

**NOTE**

There is option to use other boot media like: IDE DOM, SATA DOM or hard disks. (at least 1GB media size required). After uncompressing the zip file on the USB-stick or other media, the root directory must reside **ONLY** for the following directories: bxxxx, boot and file mmenu\_upd.sh where: xxxx is referenced as the build number.

- To make the Boot Media bootable, enter the directory called "boot" and run the bootinst.exe (for Windows only) or bootinst.sh (for Linux only).
- Continue to boot your storage server with your media.

The first boot menu will show the software version. Please press enter or it will skip automatically within 5 seconds.

**NOTE**

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

In the second menu select the third option to run the software installer:

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

In order to install DSS V6, please select: Run software installer  
Please follow all steps until reboot.

In order to boot with DSS V6 at once, please select 64bit or 32bit version. It will start with DSS V6 TRIAL.

### NOTE

The TRIAL version can be used for evaluation of up to 60 days. If you decide to purchase the product, you can continue to use it and all your data and settings will remain intact.

## Storage Configuration:

### Step 1. Initialize hardware

Before using Open-E software you should have hard disk drives connected to SATA, SAS, SCSI, ATA ports on motherboard or Hardware-RAID and LAN Card already in your server. You can use external Fiber Channel or iSCSI storage devices as well.

Connect the keyboard and monitor (they will be needed for setup only). Later you can run the server in "headless mode" (without keyboard and monitor).

### NOTE

Please check the motherboard BIOS if the "headless mode" is enabled. In some cases systems will not boot, if the keyboard is not connected. You'll find more about headless mode located in motherboards BIOS manual.

### Step 2. RAID controller configuration

If the system has a Hardware RAID, please create RAID array in RAID controller setup. Then refer to the RAID controller's manual. You do not have to install drivers or RAID array monitoring and maintenance software. If system has a "motherboard BIOS RAID", please do not use it. Motherboard BIOS RAID's are not supported. Please use build-in software RAID in DSS V6 web GUI.

### Step 3. Time setting

Make sure you have the proper date and time settings. The settings can be checked and changed by using the following key sequence: left "Ctrl" + left "Alt" + "T" and Enter "Time Configuration" and use the manual settings.

### NOTE

Wrong time or time zone settings will cause malfunction of the system!

### Step 4. Preparing for the remote administration

After the boot process has finished Open-E Data Storage Software V6 will show you information concerning its network settings. The standard IP Address setting for the Open-E Data Storage Software V6 is: IP address **192.168.0.220** and Netmask 255.255.255.0. This setting can be changed manually by using the following key sequence: left "Ctrl" + left "Alt" + "N".

## Step 5. Logging into Open-E Data Storage Software V6

Connect to Open-E Data Storage Software V6 via network using any standard browser by typing the IP address into the URL entry line:

- <https://192.168.0.220> or
- <https://dss>

Log into Open-E Data Storage Software V6 using the standard password: “**admin**”

Now you will be able to set all server parameters to get started.

### NOTE

Password checking is case-sensitive.

## Step 6. Create software RAID (optional)

- To create a SW RAID array, please go to the menu in “SETUP” -> “S/W RAID”.
- All available units will be listed. A unit can be a single hard disk or a disk array (if using a hardware RAID controller).
- Software RAID can be created over a single hard disk or hardware disk arrays.
- To create a software RAID, please select the units then choose the RAID level and click on the “create” button.

## Step 7. Preparing disks

- In the menu, please select the “CONFIGURATION” -> “volume manager” -> “volume groups” and “Unit manager” function. You find a list of available drives/arrays (units) that can be used.
- While creating the “new volume group”, the system adds selected units only. You can use default volume group name or change it. After creating the volume group, the page is reloaded and the “Status” field will should show your drives/arrays as “in use”.
- It is possible to combine two (or more) units into one Volume Group.
- Next, by clicking on the left-hand side of the tree diagram for the volume group name e.g. “vg00” and now you can use the function “Volume Manager” to create a new Fiber Channel, iSCSI and or NAS volume.
- If you want to use the snapshot feature you can create a snapshot volume as well.

## NAS Configuration:

### Step 8. Preparing shares

In the menu, please select “CONFIGURATION” -> “NAS settings” and select the Authentication method. Next, in the menu from “NAS resources”, select “Shares”. You should configure at least one user and group, and grant the user access to the share or change access to the share for “Guest”. Further details can be obtained from the manual.

### Step 9. Exploring shares

Now you can start to explore shares using “network neighborhood” or typing “\\192.168.0.220” or “\\dss” in your browser. Please replace the defaults with your own settings accordingly.

### NOTE

Workgroup name configured in Open-E Data Storage Software V6 must match your network settings. Otherwise your configured share will not be visible in the network neighborhood

## iSCSI Target Configuration:

### Step 10. Defining targets

- After creating an iSCSI volume (from step 7) , please select “CONFIGURATION” -> “iSCSI target manager”, in the “Create new target” function click “apply” button to create a new iSCSI target.
- Next, click on the previously created target name e.g. “target0” and in the “Target volume manager” function click the “+” sign button by the desired logical volume.
- If you want to restrict access to the target please refer to the manual.

#### EXAMPLE

If you create 5 logical volumes, you may create one target with 5 LUNs, or 5 targets each with 1 LUN, or 2 targets, for example 3 LUNs belong to first target and remaining 2 LUNs can belong to the second one. To create many iSCSI logical volumes (LUNs) refer to step 7.

### Step 11. Exploring targets

Now you can connect with your iSCSI initiator and use your targets. Example (Microsoft Windows environment). Please download Microsoft iSCSI Initiator and follow instructions:

- Start the software and add the targets in menu Discovery and enter IP Address of Open-E Data Storage Software and Port (default 3260).
- From the menu of Targets please “Log On” to new added target.
- Now access the Windows “Computer Management” feature and start the Disk Manager function, where you will be able to partition and format your new iSCSI drives for your operating system.