

open-e

ENTERPRISE LEVEL STORAGE OS
for EVERY BUSINESS

Backup to attached Tape Library using Open-E DSS V6



DSS V6
DATA STORAGE SOFTWARE

16 TB



Easy to use, GUI based management provides performance and security.



Reliable disk based backup and recovery, along with Snapshot capability enable fast and reliable backup and restore.



Easy to implement remote Replication, at block or volume level, enables cost-effective disaster recovery.



IP based storage management combines NAS and iSCSI functionality for centralized storage and storage consolidation.

Software Version: DSS ver. 6.00 up30

Presentation updated: April 2010

www.open-e.com

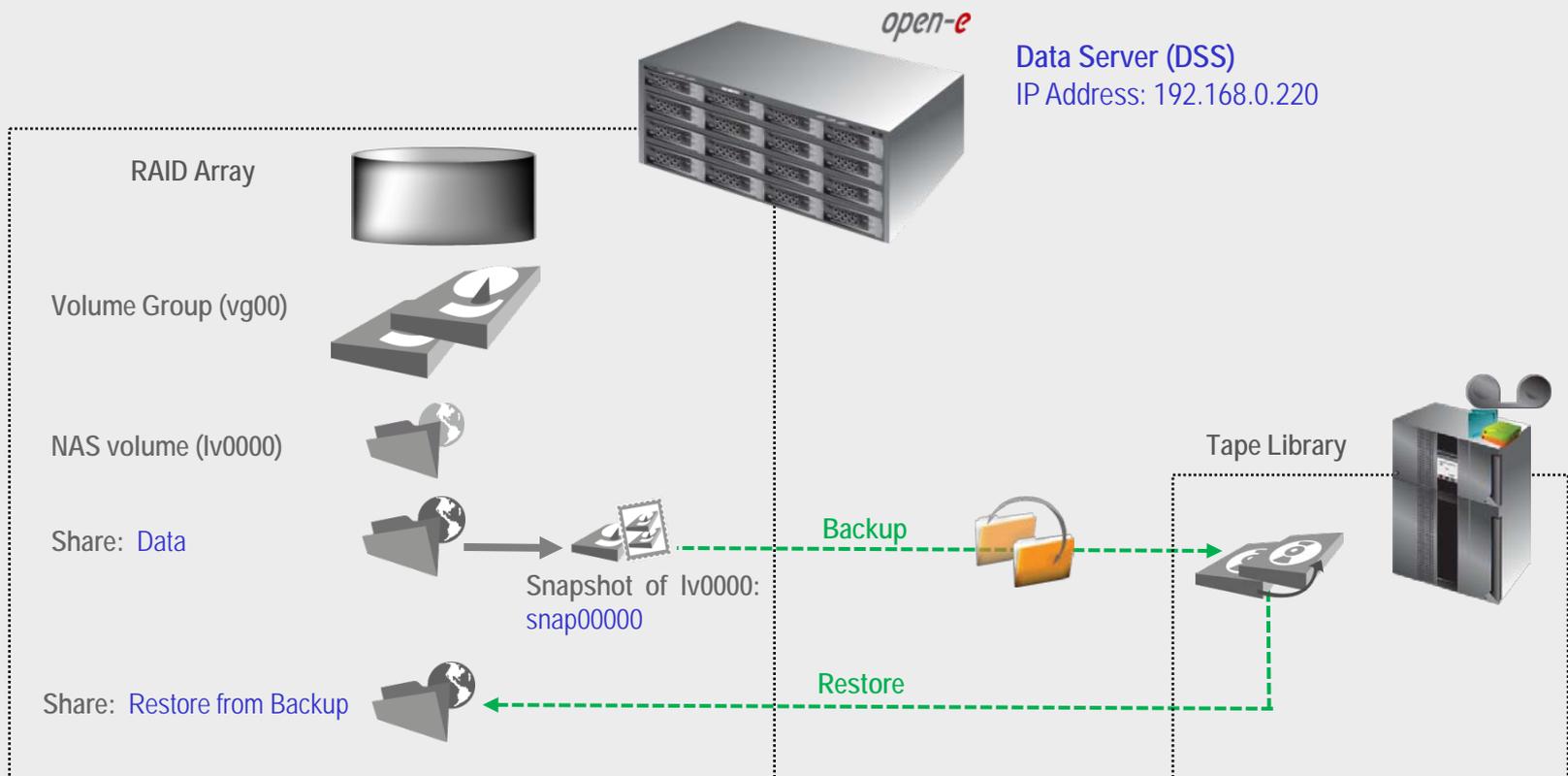
TO SET UP A BACKUP TO AN ATTACHED TAPE LIBRARY, PERFORM THE FOLLOWING STEPS:

1. Hardware configuration
2. Creating Volume Group, NAS Volume and snapshot
3. Configure the Backup to use with a Tape Library (NAS Shares, Pools, Backup Tasks and Schedule on Odd and Even Weeks)
4. Create the Restore from Backup

Backup to attached Tape Library

1. Hardware configuration

Data residing on the DSS V6 is backed up from RAID Array to the Tape Library.



Backup to attached Tape Library



Data Server (DSS)
IP Address: 192.168.0.220

2. Creating Volume Group, NAS Volume and Snapshot Volume

Under the "CONFIGURATION" tab, select "volume manager" and next Vol. Groups.



In the **Unit manager** add the selected physical units (**Unit S001**) to create a new volume group (in this case, **vg00**) and click **apply** button.

The screenshot shows the open-e web interface with the following elements:

- Header: open-e | ENTERPRISE CLASS STORAGE OS for EVERY BUSINESS | DATA STORAGE SOFTWARE V6
- Navigation: SETUP | CONFIGURATION | MAINTENANCE | STATUS | HELP
- Breadcrumbs: You are here: CONFIGURATION > volume manager > Vol. groups
- Left Panel: "Vol. groups" tab with a tree view showing "vg00".
- Right Panel: "Unit manager" section with a table of units and an "apply" button.

Unit	Size (GB)	Serial number	Status
<input checked="" type="checkbox"/> Unit S001	717.11	4063e43039150437	available

Action: new volume group
Name: vg00

Unit	Serial number	Status
<input type="checkbox"/> Unit S000	N/A	

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IP Address: 192.168.0.220

2. ... Continue

Volume Groups (vg00)



NAS volume (lv0000)



Select the appropriate **volume group (vg00)** from the list on the left and create a **new NAS volume** of the required size. This logical volume **lv0000** will be the source of the local backup.

After assigning an appropriate amount of space for the NAS volume, click the **apply** button.

The screenshot shows the open-e web interface for configuring storage. The breadcrumb trail is: CONFIGURATION > volume manager > Vol. groups > vg00. The left sidebar shows a tree view with 'Vol. groups' expanded to show 'vg00'. The main content area is titled 'Volume manager' and contains a table of system volumes:

System volumes	Size (GB)
Reserved Pool	4.00
Reserved for snapshots	0.00
Reserved for system	1.00
Reserved for replication	0.00
Free	717.11

Below the table, the 'Action:' dropdown is set to 'new NAS volume'. There are checkboxes for 'Use volume replication' and 'WORM', both of which are unchecked. A slider bar shows the available free space from 0 to 717.11 GB. The 'add:' field is set to 500 GB. A red 'apply' button is visible at the bottom right of the configuration area. A blue text prompt at the bottom of the configuration area reads: 'Please apply changes or press "reload" button to discard'. At the bottom of the interface, there is an 'Event Viewer' icon and a footer that says 'Data Storage Software V6 - All rights reserved'.

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2. ... Continue

Snapshot



To run the local backup process, you must first define a new snapshot volume in the Volume manager for the volume to be backed up.

After assigning the appropriate amount of space for the Snapshot volume, click the **apply** button.

Option:

You may Create a snapshot volume and Assign it to the appropriate volume at the same time Instead of selecting: "Just create snapshot volume" select: "Assign to volume lv0000" In such case - skip the next slide.

The screenshot shows the open-e Volume manager interface. The top navigation bar includes 'SETUP', 'CONFIGURATION', 'MAINTENANCE', 'STATUS', and 'HELP'. The current page is 'Volume manager' under 'CONFIGURATION > volume manager > Vol. groups > vg00'. An information message states: 'Logical volume lv0000 has been created successfully.' Below this is a table of logical volumes:

Logical Volume	Type	Snap.	Rep.	Init.	Blocksize (bytes)	Size (GB)
lv0000					N/A	500.00

Below the table, there are sections for 'System volumes' and 'Free' space:

System volumes	Size (GB)
Reserved Pool	4.00
Reserved for snapshots	0.00
Reserved for system	1.00
Reserved for replication	0.00
Free	212.06

The 'Action' dropdown is set to 'new snapshot' and 'Assign to volume' is set to 'Just create snapshot volume'. At the bottom, there is a slider for size with a value of 30 GB and an 'apply' button.

Backup to attached Tape Library



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2. ... Continue

NAS volume
(lv0000)



Snapshot

Assign `snap00000` to the logical volume to be backed up (in this example - `lv0000`) and click the **apply** button.

The screenshot shows the open-e web interface for configuring a new NAS volume. The breadcrumb trail is: CONFIGURATION > volume manager > Vol. groups > vg00. The main panel is titled 'Vol. groups' and shows 'vg00' selected. On the right, the 'Reserved for replication' section shows 0.00 GB reserved and 182.06 GB free. The 'Action' dropdown is set to 'new NAS volume'. There are checkboxes for 'Use volume replication' and 'WORM'. A slider shows the current size at 0 GB out of 182.06 GB, with an 'add' field set to 0.00 GB. An 'apply' button is at the bottom right. Below this, the 'Snapshot definition' section shows a table with one entry: 'snap00000' linked to logical volume 'lv0000' with a status of 'unused'. An 'apply' button is also present here. A blue arrow points from the text box to this 'apply' button. The footer includes 'Event Viewer' and 'Data Storage Software V6 - All rights reserved'.

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3. Configure the Backup to be used with the Tape Library

Under the "CONFIGURATION" tab, select the "NAS settings" menu.

Local Backup



Check to Use local backup box. Also select, Default share on LV as lv0000, and click the **apply** button.

NOTE:

In order to increase backup robustness, it is recommended to place backup database on another volume (e.g. lv0001).

The screenshot shows the open-e web interface with the 'CONFIGURATION' tab selected. The breadcrumb trail indicates 'You are here: CONFIGURATION > NAS settings'. The 'Local backup settings' section is expanded, showing the following configuration:

- Use local backup
- Select backup database location:
 - Default share on LV: lv0000
 - Other share: <choose share>
- Create database
- Move database

An 'apply' button is located at the bottom right of the 'Local backup settings' section. A blue arrow points from the 'apply' button in the 'Data replication agent' section to the 'apply' button in the 'Local backup settings' section.

Backup to attached Tape Library



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3. ... Continue

Under the "CONFIGURATION", select the "NAS resources" and Shares.

Shares: Data



A listing of the NAS shared volumes (Shares) will appear on the left pane of the DSS V6 web GUI. In this example, a shared volume named **Data** is created on lv0000.

The screenshot shows the open-e web GUI interface. At the top, there is a navigation bar with tabs for SETUP, CONFIGURATION, MAINTENANCE, STATUS, and HELP. The current page is titled "You are here: CONFIGURATION > NAS resources > Shares". The main content area is divided into two panes. The left pane shows a list of shares under the "Shares" tab, with one entry: "1. backup_db_lv0000". Below this, there are tabs for "Users" and "Groups". The right pane is titled "Create new share" and contains a form with the following fields: "Name:" (with the value "Data"), "Comment:" (empty), "Default path:" (with the value "/lv0000/Data"), and "Specified path:" (with the value "/"). There is an "apply" button at the bottom of the form. Below the form is a section titled "ACL (Access control list)" with tabs for "Browser", "Users & Groups", and "Access Permissions". The "Browser" tab is selected, showing a tree view with "lv0000" under a folder icon. At the bottom of the GUI, there is an "Event Viewer" icon and a footer that reads "Data Storage Software V6 - All rights reserved".

Backup to attached Tape Library



Data Server (DSS)
IP Address: 192.168.0.220

3. ... Continue

Under the "MAINTENANCE", select "backup" and "Backup pools".

Backup pools: BiWeekOdd



In the "Create new pool", enter a name for the pool (for odd-numbered week) and select Tape retention after. In this example, enter week and click on the **create** button.

Backup to attached Tape Library



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3. ... Continue

Backup pools: BiWeekEven



Again in the "Create new pool", enter a name for the pool (for even-numbered week) and select **Tape retention** next. In this example, enter week and click on the **create** button.

The screenshot shows the open-e web interface. At the top, there's a navigation bar with 'open-e' logo and 'ENTERPRISE CLASS STORAGE OS for EVERY BUSINESS'. Below that, a red bar says 'DATA STORAGE SOFTWARE V6'. The main navigation menu includes 'SETUP', 'CONFIGURATION', 'MAINTENANCE', 'STATUS', and 'HELP'. The breadcrumb trail reads 'You are here: MAINTENANCE > backup > Backup pools'. The left sidebar has a 'Backup pools' section with a sub-item 'BiWeekOdd'. The main content area is titled 'Create new pool' and contains a form with the following fields: 'Name:' with the value 'BeWeekEven', 'Tape retention after:' with a dropdown menu set to 'week', and a checkbox for 'Use each tape only once' which is unchecked. A red 'create' button is at the bottom right of the form. Below the form, there's a blue link that says 'Please apply changes or press "reload" button to discard'. At the bottom of the interface, there's an 'Event Viewer' icon and a footer that says 'Data Storage Software V6 - All rights reserved'.

Backup to attached Tape Library



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3. ... Continue

Next, select three tapes In "Label new tapes" by moving them to the right side and select the Pool name. In this example BiWeekOdd (for odd-numbered weeks) and click the apply.

Backup devices: Tape Drive



NOTE:

"With erase" option, clears each tape prior to being labeled.

Also, make sure that no write protection is set ("read-only" switch on the tape must be cleared).

"Label with barcodes" option, will generate the same barcodes prefixes for the labeled tapes.

The Label prefix box will be grayed out when this option is on.

Backup to attached Tape Library



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3. ... Continue

Next, chose the next tape set "Label new tape", select next three Tapes, and choose BiWeekEven pool (for even-numbered weeks) and click the **apply**.

Backup devices: Tape Drive



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SETUP | CONFIGURATION | MAINTENANCE | STATUS | HELP

You are here: MAINTENANCE > backup > Backup pools > Tape Drive

Backup pools

- BiWeekEven
- BiWeekOdd

Backup devices

- Tape Drive

Backup tasks

Data replication

Label new tapes

available slots | slots to label

Search: | Search:

Slot 1,VolumeTag:AHG154
Slot 2,VolumeTag:AHG153
Slot 3,VolumeTag:AHG155
Slot 7,VolumeTag:AHG159

Slot 4,VolumeTag:AHG156
Slot 5,VolumeTag:AHG157
Slot 6,VolumeTag:AHG158

Label prefix: |

Pool name: | BiWeekEven

With erase
 Limit tape size
 Label with barcodes

apply

Please apply changes or press "reload" button to discard

Backup device tapes

Name	Pool	Slot	Loaded	Status	Used/size	Action
AHG154	BiWeekOdd	1	✓	Append	0.00KB/(n/a)	⌵ ⌵
AHG153	BiWeekOdd	2	✓	Append	0.00KB/(n/a)	⌵ ⌵

Event Viewer: |

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Backup to attached Tape Library



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3. ... Continue

Refresh Backup device tapes, the new Backup device tapes will appear (all the tapes for the odd and even-numbered weeks).

The screenshot shows the open-e Data Storage Software V6 interface. The top navigation bar includes 'SETUP', 'CONFIGURATION', 'MAINTENANCE', 'STATUS', and 'HELP'. The breadcrumb trail indicates the current location: 'You are here: MAINTENANCE > backup > Backup devices > Tape Drive'. The left sidebar contains several sections: 'Backup pools' (with sub-items BiWeekEven and BiWeekOdd), 'Backup devices' (with a sub-item Tape Drive), 'Backup tasks', and 'Data replication'. The main content area is divided into two panels. The top panel, titled 'Backup device tapes', contains a table with the following data:

Name	Pool	Slot	Loaded	Status	Used/size	Action
AHG154	BiWeekOdd	1	✓	Append	0.00kB/(n/a)	[Refresh] [Delete]
AHG153	BiWeekOdd	2	✓	Append	0.00kB/(n/a)	[Refresh] [Delete]
AHG155	BiWeekOdd	3	✓	Append	0.00kB/(n/a)	[Refresh] [Delete]
AHG156	BiWeekEven	4	✓	Append	0.00kB/(n/a)	[Refresh] [Delete]
AHG157	BiWeekEven	5	✓	Append	0.00kB/(n/a)	[Refresh] [Delete]
AHG158	BiWeekEven	6	✓	Append	0.00kB/(n/a)	[Refresh] [Delete]

The bottom panel, titled 'Update slots', contains two sections of text and two buttons. The first section, 'Barcode scan', describes a fast barcode scan function. The second section, 'Tape scan', describes a physical label read function. Both sections include a corresponding button: 'Barcode scan' and 'Tape scan'.

Backup to attached Tape Library



Data Server (DSS)
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3. ... Continue

Next ,select **Backup tasks**. In the "Create new backup task" enter a name for the backup tasks and select the **Logical volume**. In this example choose **lv0000**.

Next, select the shares to backup. (Move the selected shares area by clicking  button). Also, Select the **Snapshot** and **Store on pool**. (in this example, **snap00000** and **BiWeekOdd** for odd-numbered weeks). Select the backup **Level** (incremental) and click **apply**.

The screenshot shows the 'Create new backup task' configuration window in the open-e web interface. The window is titled 'Create new backup task' and has a search bar and a help icon. The configuration fields are as follows:

- Name: BackupTaskOdd
- Logical volume: lv0000
- Shares for backup: Data
- Snapshot: snap00000
- Store on pool: BiWeekOdd
- Level: incremental
- Compress data:
- Make full backup every:

An 'apply' button is located at the bottom right of the configuration window. The background shows the 'Backup tasks' section of the interface, with a right arrow button used to move shares from the 'Available shares' list to the 'Assigned shares' list.

Backup to attached Tape Library



Data Server (DSS)
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3. ... Continue

Backup tasks: BackupTaskEven



Now let's create a task for Even weeks. "Create new backup task". Enter a name (BackupTaskEven) for the backup tasks and select the Logical volume (lv0000). Select the share (Move the Data share to the Assigned shares area by clicking button). Select the Snapshot volume (snap0000) and select Store on pool (BiWeekEven). Next select the backup Level (incremental) and click **apply**.

The screenshot shows the open-e Data Storage Software V6 interface. The main window is titled "Create new backup task". The "Name" field is set to "BackupTaskEven" and the "Logical volume" is set to "lv0000". Under "Available shares", "backup_db_lv0000" is listed. Under "Assigned shares", "Data" is listed. The "Snapshot" is set to "snap0000" and "Store on pool" is set to "BiWeekEven". The "Level" is set to "incremental". The "apply" button is highlighted in red. Blue arrows point from the text box to the "Data" share, the "snap0000" snapshot, the "BiWeekEven" pool, and the "apply" button.

Backup to attached Tape Library



Data Server (DSS)
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3. ... Continue

Refresh and the 2 news Backup tasks will appear. Next, click BackupTaskEven, in the Backup tasks on the left pane.

Backup tasks: BackupTaskEven

To "Create new schedule for backup", enter a Comment that reflects the new schedule and then Select time (Weekly, Saturday, 10 pm, Every even week) click **apply**.

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SETUP | CONFIGURATION | MAINTENANCE | STATUS | HELP

You are here: MAINTENANCE > backup > Backup tasks > BackupTaskEven

Backup pools

- BiWeekEven
- BiWeekOdd

Backup devices

- Tape Drive

Backup tasks

- BackupTaskEven
- BackupTaskOdd

Data replication

Attribute	Value
Shares:	Data
Pool:	BiWeekEven
LV:	lv0000
Snapshot:	snap00000
Level:	incremental
Compression:	off
Full backup every:	off

Create new schedule for backup task

Comment:

Select time:

Monday
 Tuesday
 Wednesday
 Thursday
 Friday
 Saturday
 Sunday

Start :

Every week
 Every even week
 Every odd week

Please apply changes or press "reload" button to discard

Event Viewer:

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Backup to attached Tape Library



Data Server (DSS)
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3. ... Continue

Next, click BackupTaskOdd, in the Backup tasks pane.

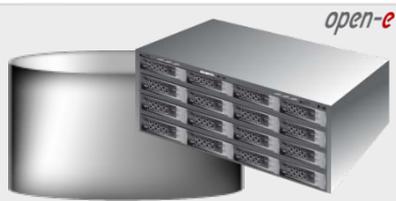
Backup tasks: BackupTaskOdd

"Create new schedule for backup", enter a **Comment** for the new schedule and **Select time** (Weekly, Saturday, 10 pm, Every odd). Click **apply**.

Attribute	Value
Shares:	Data
Pool:	BiWeekOdd
LV:	lv0000
Snapshot:	snap00000
Level:	incremental
Compression:	off
Full backup every:	off

Comment: ScheduleBackuptaskOdd
Select time: Weekly
 Monday
 Tuesday
 Wednesday
 Thursday
 Friday
 Saturday
 Sunday
Start 22 : 00
 Every week
 Every even week
 Every odd week
apply

Backup to attached Tape Library



Data Server (DSS)
IP Address: 192.168.0.220

3. ... Continue

Select  in the **Backup tasks**, to see the backup tasks status.

Backup tasks: BackupTaskEven



The screenshot shows the open-e web interface with the following elements:

- Header:** open-e | ENTERPRISE CLASS STORAGE OS for EVERY BUSINESS | DATA STORAGE SOFTWARE V6
- Navigation:** SETUP | CONFIGURATION | MAINTENANCE | STATUS | HELP
- Breadcrumbs:** You are here: MAINTENANCE > backup > Backup tasks
- Left Sidebar:**
 - Backup pools
 - BiWeekEven
 - BiWeekOdd
 - Backup devices
 - Tape Drive
 - Backup tasks
 - BackupTaskEven (checked)
 - BackupTaskOdd
 - Data replication
- Main Content Area:**
 - Backup tasks table:**

Name	Start time	Action
BackupTaskEven	2010-04-17 22:00:09	[Play] [Stop] [Close]
BackupTaskOdd	n/a	[Play] [Stop] [Close]
 - Create new backup task form:**
 - Name:
 - Logical volume:
 - Shares for backup:
 - Available shares:
 - Assigned shares:
 - Snapshot:
 - Store on pool:

Backup to attached Tape Library



Data Server (DSS)
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3. ... Continue

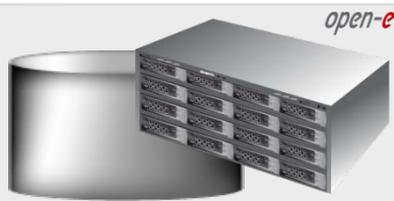
The Backup tasks shows the status (backup task running on Saturday, 10 pm, even weeks).

Backup tasks: BackupTaskEven

The screenshot shows the open-e web interface with the following components:

- Navigation:** SETUP, CONFIGURATION, MAINTENANCE, STATUS, HELP. Current location: MAINTENANCE > backup > Backup tasks.
- Backup pools:** BiWeekEven, BiWeekOdd.
- Backup devices:** Tape Drive.
- Backup tasks:** BackupTaskEven (selected), BackupTaskOdd.
- Data replication:** (Empty section).
- BackupTaskEven details:**
 - Name: BackupTaskEven
 - Start time: 2010-04-17 22:00:09
 - last log: 2010-04-17 22:00:34 start
 - short description: shares: Data, pool: BiWeekEven, level: incremental
- Create new backup task form:** Name, Logical volume (lv0000), Shares for backup, Available shares (Data, backup_db_lv0000), Assigned shares.

Backup to attached Tape Library



Data Server (DSS)
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3. ... Continue

Under the "STATUS", select "tasks" and Backup.

Backup tasks: BackupTaskOdd

In the "Running tasks" display Detailed information on the current Backup task.

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SETUP | CONFIGURATION | MAINTENANCE | STATUS | HELP

You are here: STATUS > tasks > Backup

Tasks

- Backup
- Restore from backup
- Data Replication
- Antivirus
- Volume Replication
- Snapshots

Running tasks

Name	Type	Start time
BackupTaskEven	Backup	2010-04-17 22:00:09

Tasks log

Time	Name	Type	Status	Action
2010-04-17 22:00:34	BackupTaskEven	Backup	OK	Started

Event Viewer:

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Backup to attached Tape Library



Data Server (DSS)
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3. ... Continue

Once the backup is completed, all data from "Data" share are backed up to the Tape: "AHG156" Indicates that 3.80 Gb of 400Gb has been used.

Backup device: Tape Drive



The configuration of Backup is now complete.

The screenshot shows the open-e web interface for configuring backup tasks. The breadcrumb trail is: MAINTENANCE > backup > Backup tasks > Tape Drive. The left sidebar shows a tree view with 'Backup pools' (BiWeekEven, BiWeekOdd), 'Backup devices' (Tape Drive), 'Backup tasks' (BackupTaskEven, BackupTaskOdd), and 'Data replication'. The main content area displays a table of 'Backup device tapes' with columns for Name, Pool, Slot, Loaded, Status, Used/size, and Action. The row for AHG156 is highlighted, showing it is loaded and used 3.80GB. Below the table is an 'Update slots' section with a 'Barcode scan' button.

Name	Pool	Slot	Loaded	Status	Used/size	Action
AHG154	BiWeekOdd	1	✓	Append	0.00kB/(n/a)	[Refresh] [Delete]
AHG153	BiWeekOdd	2	✓	Append	0.00kB/(n/a)	[Refresh] [Delete]
AHG155	BiWeekOdd	3	✓	Append	0.00kB/(n/a)	[Refresh] [Delete]
AHG157	BiWeekEven	5	✓	Append	0.00kB/(n/a)	[Refresh] [Delete]
AHG158	BiWeekEven	6	✓	Append	0.00kB/(n/a)	[Refresh] [Delete]
AHG156	BiWeekEven	4	✓	Append	3.80GB/(n/a)	[Refresh] [Delete]

first written: 2010-04-17 22:00:34
last written: 2010-04-17 22:06:09
tape retention: week

Update slots

This function performs a fast barcodes scan only. Please perform this scan when changing out, exchanging tape magazines or tapes.
Notice: If the loader device includes a non-barcode labeled tapes, these tapes will be marked as unloaded. In such case please use the "Tape Scan" function.

Barcode scan

This function performs a physical label read of all tapes. Please perform this scan when changing out, exchanging tape magazines or tapes. This function can take longer to complete, please be patient.

Backup to attached Tape Library



Data Server (DSS)
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4. Create a Restore from the Backup

To Restore from backup, first create a share dedicated to restore, select in "CONFIGURATION", "NAS resources" menu and click Shares.

Shares: Restore from Backup

In this example, a shared volume named "Restore from Backup" has been created on lv0000.

The screenshot shows the open-e web interface for configuring shares. The breadcrumb trail is "You are here: CONFIGURATION > NAS resources > Shares". The "Shares" panel on the left shows a tree view with "1. backup_db_lv0000" and "2. Data". The "Users" panel shows "1. john". The "Groups" panel shows "1. users". The "Create new share" form has the following fields: "Name" (Restore from Backup), "Comment" (empty), "Default path" (selected, /lv0000/Restore from Backup), and "Specified path" (/). An "apply" button is at the bottom right of the form. Below the form is the "ACL (Access control list)" section with tabs for "Browser", "Users & Groups", and "Access Permissions". The "Selection" and "Filter" fields are empty. A tree view below shows "lv0000". The footer of the interface includes "Event Viewer:" and "Data Storage Software V6 - All rights reserved".

Backup to attached Tape Library



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Data Server (DSS)
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4. ... Continue

Next under the "MAINTENANCE" select restore".

Restore task: RestoreTask

In the "Create new restore task", check the box BackupTaskEven. Enter a name for the Restore tasks name (e.g. RestoreTask), and select the destination share in the Restore to field. In this example, choose "Restore from Backup" share. Next, click apply.

NOTE:
To start the restore task immediately, Select "run immediate after create" option.

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SETUP | CONFIGURATION | MAINTENANCE | STATUS | HELP

You are here: MAINTENANCE > restore

Restore tasks

Create new restore task

Backup tasks search

Task: [dropdown]
Device: [dropdown]
File name contain: [text]
From date: [Day] [Month] [Year] [dropdown]
To date: [Day] [Month] [Year] [dropdown]

search

Name	Date	Device
<input checked="" type="checkbox"/> BackupTaskEven	2010-04-17 22:06:09	Tape

Restore task name: [text: RestoreTask]
Restore to: [dropdown: Restore from Backup]

Overwrite files
 always
 if newer
 if older
 never

run immediate after create

apply

Please apply changes or press "reload" button to discard

Event Viewer: [icon]

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Backup to attached Tape Library



Data Server (DSS)
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4. ... Continue

Select "RestoreTask" on the left pane to display detailed information about the restore task

Restore task: RestoreTask



"Restore task" – shows specific information about the selected task (RestoreTask)

The screenshot shows the open-e web interface. At the top, there is a navigation bar with tabs for SETUP, CONFIGURATION, MAINTENANCE, STATUS, and HELP. Below this, a breadcrumb trail reads "You are here: MAINTENANCE > restore > RestoreTask". The main content area is split into two panes. The left pane, titled "Restore tasks", contains a list with one item, "RestoreTask", which is selected. The right pane, titled "Restore task", displays a table of attributes and values for the selected task. Below the table is a "Remove restore task" section with an information message and a "remove" button. At the bottom of the interface, there is an "Event Viewer" icon and a footer with the text "Data Storage Software V6 - All rights reserved".

Attribute	Value
Backups:	RestoreTask
Destination shares:	Restore from Backup
Device:	Tape
Overwrite files:	always

Remove restore task

Info
Restore task is running. You must stop this task before you can remove it.

remove

Backup to attached Tape Library



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4. ... Continue

Under the "STATUS", "tasks" shows all running tasks including Restore Task (Restore from backup).

Restore tasks: RestoreTask

"Runnings tasks" displays detailed information on the current Restore from backup task.

The screenshot shows the open-e web interface with the following elements:

- Header: open-e | ENTERPRISE CLASS STORAGE OS for EVERY BUSINESS | DATA STORAGE SOFTWARE V6
- Navigation: SETUP | CONFIGURATION | MAINTENANCE | STATUS | HELP
- Breadcrumbs: You are here: STATUS > tasks > Restore from backup
- Tasks List (Left):
 - Backup
 - Restore from backup** (selected)
 - Data Replication
 - Antivirus
 - Volume Replication
 - Snapshots
- Running tasks (Right):

Name	Type	Start time
RestoreTask	Restore from backup	2010-04-19 09:23:43
- Tasks log (Right):

Time	Name	Type	Status	Action
2010-04-19 09:23:45	RestoreTask	Restore from backup	OK	Started
- Footer: Event Viewer: [icon] | Data Storage Software V6 - All rights reserved

Under the "CONFIGURATION", select the "NAS resources" and Shares.

Backup to attached Tape Library



open-e

Data Server (DSS)
IP Address: 192.168.0.220

4. ... Continue

open-e | ENTERPRISE CLASS STORAGE OS for EVERY BUSINESS | DATA STORAGE SOFTWARE V6

SETUP | CONFIGURATION | MAINTENANCE | STATUS | HELP

You are here: MAINTENANCE > restore

Restore tasks

RestoreTask

Name	Start time	Action
RestoreTask	n/a	[Play] [Stop] [Close]

last log

2010-02-19 09:23:45	start
2010-02-19 09:28:59	stop

short description

device:	Tape
destination share:	Restore from Backup
jobs:	1

Create new restore task

Backup tasks search

Task:

Device:

File name contain:

From date: Day Month Year

To date: Day Month Year

Event Viewer:

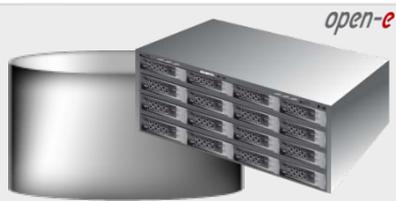
Data Storage Software V6 - All rights reserved

RestoreTask detailed information

Restore task: RestoreTask



Backup to attached Tape Library

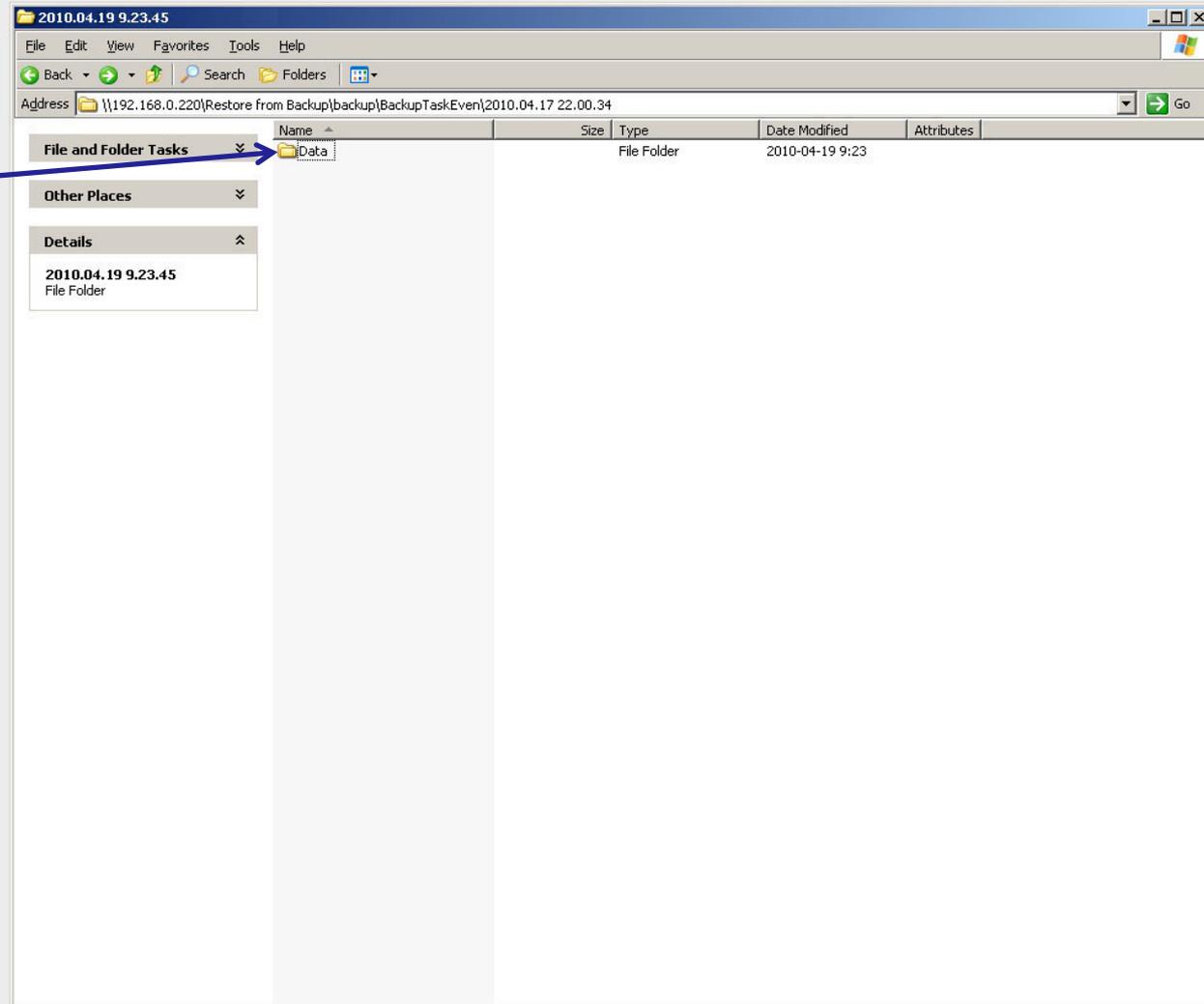


Data Server (DSS)
IP Address: 192.168.0.220

4. ... Continue

Once Restore task is completed all data from the "Data" share will be available on the "Restore from Backup" share.

Share: Restore from Backup



The configuration of the Restore from Backup is now complete.

Thank you!