

DSA E-series E2800 | E4000* - Switching from LAN to fiber cables

*List of applicable products inside document

Table of contents

1	Introduction	4
1.1	Applicable products	4
2	Connection	5

1 Introduction

This manual describes how to switch over multiple DSA E-Series E2800/E4000 Dual Controller units (using multi-pathing) from iSCSI copper NICs to optical fiber iSCSI without any data loss.

**Notice!**

NetApp, AutoSupport, and SANtricity are registered trademarks of NetApp, all rights reserved. The hardware information and SANtricity content in this document are based on NetApp documentation available on the NetApp website and are subject to change without notice.

1.1 Applicable products

The description is valid for the following products:

- DSA E-Series E2800 12-bay
 - DSA-N2E8X4-12AT
 - DSX-N1D8X4-12AT
 - DSA-N2C8X4-12AT
 - DSA-N2E8X8-12AT
 - DSX-N1D8X8-12AT
 - DSA-N2C8X8-12AT
 - DSA-N2E8XC-12AT
 - DSX-N1D8XC-12AT
 - DSA-N2C8XC-12AT
 - DSA-N2E8XG-12AT
 - DSX-N1D8XG-12AT
 - DSA-N2C8XG-12AT
- DSA E-Series E2800 60-bay
 - DSA-N6C8X4-60AT
 - DSA-N6C8X8-60AT
 - DSA-N6C8XC-60AT
 - DSX-N6D8X4-60AT
 - DSX-N6D8X8-60AT
 - DSX-N6D8XC-60AT
 - DSX-NRCK40-INT8
- DSA E-Series E4000 12-bay
 - DSA-N2E4X4-12AT
 - DSA-N2C4X4-12AT
 - DSA-N2E4XA-12AT
 - DSA-N2C4XA-12AT
 - DSX-N1D4XA-12AT
- DSA E-Series E4000 60-bay
 - DSA-N6C4XA-60AT
 - DSX-N6D4XA-60AT

2

Connection



Notice!

Notice! The following procedure uses the DSA E-Series E2800 duplex controller configuration as an example. The same procedure applies to the other DSA E-Series models. For a single-controller configuration, the procedure is analogous.

To switch from copper to fiber cables:

1. Connect all fiber cables to the E2800 system.
2. Make sure the channels are connected.

To do this, open the Configuration Manager program.

Click **My Devices > Primary VRM > Pool x > Storage Systems > DSA E2800** system.

Click the **Network iSCSI** tab.

All channels must have the status **Connected**.

The screenshot displays the Bosch Configuration Manager interface. On the left, a tree view shows the hierarchy: 'Storage Systems' > 'Target 0' > 'Devices'. The main area on the right is titled 'Network iSCSI' and is divided into two sections: 'Controller A' and 'Controller B'. Each section contains a table with four columns representing Channels 3, 4, 5, and 6. The columns include 'IP address', 'Subnet mask', 'Gateway', 'Speed', and 'Status'. For Controller A, the IP addresses are 192.168.131.101, 192.168.131.101, 172.42.3.152, and 172.42.3.153. For Controller B, the IP addresses are 192.168.131.102, 192.168.131.102, 172.42.3.152, and 172.42.3.153. All 'Status' fields are set to 'Connected'. The 'Role' for Controller A channels is 'Master of Controller B, Channel 3' through '6', and for Controller B channels is 'Master of Controller A, Channel 3' through '6'.

3. Open the VRM Dashboard program. To do this, enter in your web browser:
<IP address of the Primary VRM>/monitoringsite/index.html
4. Click **Peripherals**, then click **Cameras**.

5. Make sure that all devices have the status **Preferred** in the **Multipath state** column.

The screenshot shows the 'VRM Peripherals - Cameras' page. It features a sidebar with navigation options like Dashboard, Peripherals, Devices, Signal loss, Legacy recordings, Transcoders, Storage, Overview, Targets, LUNs, Blocks, Protected blocks, System, Logbook, Export logbook, Playbacks, Jobs, and Profile. The main area displays a table of cameras with columns for Camera name, Camera address, Recording block, Multipathing support, Recording target, Multipath state, and Active IP. All cameras listed have a 'Preferred' status in the Multipath state column.

Camera name	Camera address	Recording block	Multipathing support	Recording target	Multipath state	Active IP
Hikvision_indoor_37.65	172.42.3.242/11	172.42.3.163/0/57/1024	✓	✓	Preferred	172.42.3.163
Hikvision_indoor_37.65	172.42.3.242/112	172.42.3.163/0/57/1023	✓	✓	Preferred	172.42.3.163
Camera 2	172.21.23.252/0/2	172.42.3.152/0/70/210	✓	✓	Preferred	172.42.3.152
Camera 1	172.21.23.252/0/1	172.42.3.152/0/70/522	✓	✓	Preferred	172.42.3.152
Camera 1	172.42.23.12/0/1	172.42.3.163/0/37/2664	✓	✓	Preferred	172.42.3.163
Camera 1	172.42.21.101/0/1	172.42.3.152/0/70/1042	✓	✓	Preferred	172.42.3.152
Camera 1	172.42.22.102/0/1	172.42.3.152/0/70/1030	✓	✓	Preferred	172.42.3.152
Camera 1	172.42.21.82/0/1	172.42.3.163/0/37/2628	✓	✓	Preferred	172.42.3.163
Camera 1	172.42.22.100/0/1	172.42.3.152/0/70/513	✓	✓	Preferred	172.42.3.152
Camera 1	172.42.21.83/0/1	172.42.3.152/0/70/1040	✓	✓	Preferred	172.42.3.152
Camera 1	172.42.21.100/0/1	172.42.3.163/0/37/2633	✓	✓	Preferred	172.42.3.163
Camera 1	172.42.23.15/0/1	172.42.3.152/0/70/1039	✓	✓	Preferred	172.42.3.152
Camera 1	172.42.21.81/0/1	172.42.3.163/0/37/2636	✓	✓	Preferred	172.42.3.163
Camera 1	172.42.23.35/0/1	172.42.3.163/0/37/2662	✓	✓	Preferred	172.42.3.163
Camera 1	172.42.22.11/0/1	172.42.3.152/0/70/1034	✓	✓	Preferred	172.42.3.152
Camera 1	172.42.21.102/0/1	172.42.3.163/0/47/2	✓	✓	Preferred	172.42.3.163
Camera 1	172.42.80.14/0/1	172.42.3.163/0/37/2665	✓	✓	Preferred	172.42.3.163

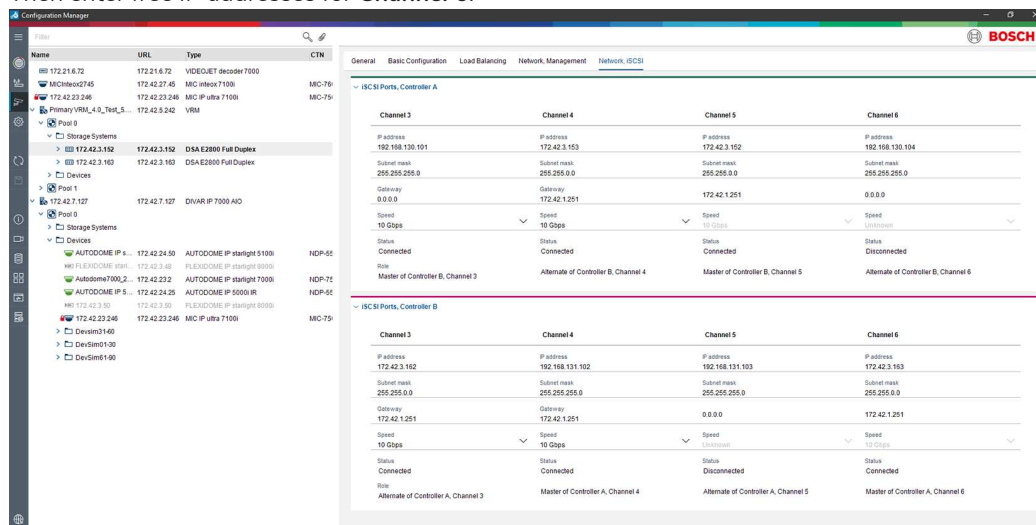
6. Disconnect both alternate copper LAN cables.

In the Configuration Manager program, the respective channels appear with the status **Disconnected**.

The screenshot shows the 'Configuration Manager' program. The left sidebar lists various components like Storage Systems, Devices, and Cameras. The main area displays the 'Network (SCSI)' configuration. It shows two controllers, 'Controller A' and 'Controller B', each with four channels (Channel 3, Channel 4, Channel 5, Channel 6). The status of each channel is indicated in the 'Status' column. For Controller A, Channel 3 is 'Connected', Channel 4 is 'Alternate of Controller B, Channel 4', Channel 5 is 'Master of Controller B, Channel 5', and Channel 6 is 'Alternate of Controller B, Channel 6'. For Controller B, Channel 3 is 'Alternate of Controller A, Channel 3', Channel 4 is 'Master of Controller A, Channel 4', Channel 5 is 'Alternate of Controller A, Channel 5', and Channel 6 is 'Master of Controller A, Channel 6'.

Channel	IP address	Subnet mask	Gateway	Speed	Status	Role
Channel 3	192.168.130.101	255.255.255.0	0.0.0.0	10 Gbps	Connected	Master of Controller B, Channel 3
Channel 4	192.168.131.101	255.255.255.0	0.0.0.0	10 Gbps	Connected	Alternate of Controller B, Channel 4
Channel 5	172.42.3.152	255.255.255.0	172.42.1.251	10 Gbps	Connected	Master of Controller B, Channel 5
Channel 6	172.42.3.153	255.255.255.0	172.42.1.251	10 Gbps	Disconnected	Alternate of Controller B, Channel 6
Channel 3	192.168.130.102	255.255.255.0	0.0.0.0	10 Gbps	Connected	Alternate of Controller A, Channel 3
Channel 4	192.168.131.102	255.255.255.0	172.42.1.251	10 Gbps	Connected	Master of Controller A, Channel 4
Channel 5	172.42.3.162	255.255.255.0	172.42.1.251	10 Gbps	Disconnected	Alternate of Controller A, Channel 5
Channel 6	172.42.3.163	255.255.255.0	172.42.1.251	10 Gbps	Connected	Master of Controller A, Channel 6

7. For Controller A and B, copy the alternate values in the **IP address**, **Subnet mask** and **Gateway** boxes to the fiber channels (from **Channel 6** to **Channel 4**). Then enter free IP addresses for **Channel 6**.

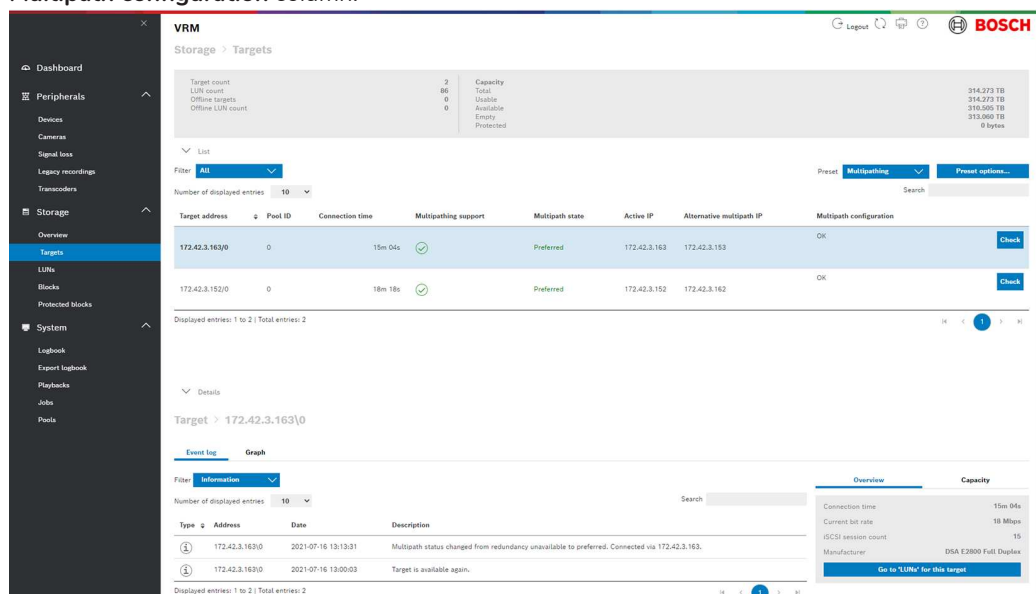


8. Use the Ping command to make sure there is a connection to both alternate IP addresses.
9. In the VRM Dashboard program, make sure the **Multipath configuration** column is set to **OK** for both alternate IP addresses.

To do this:

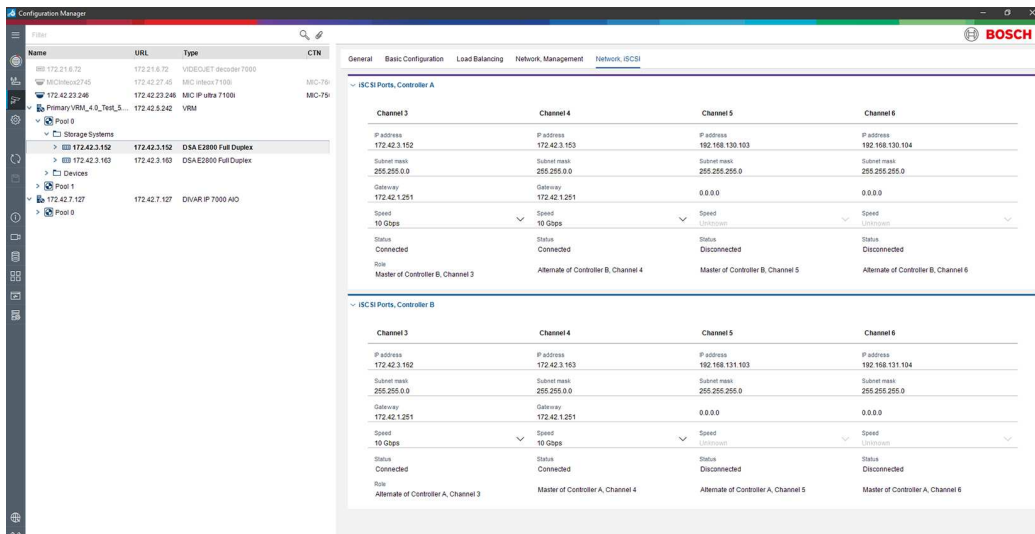
In the VRM Dashboard program, click **Storage**, then click **Targets**.

In the **Target address** column, select the respective row, then click **Check** to update the **Multipath configuration** column.



10. Disconnect both master copper LAN cables.

- For Controller A and B, copy the master IP addresses in the **IP address**, **Subnet mask** and **Gateway** boxes to the fiber channels (from **Channel 5** to **Channel 3**). Enter free IP addresses for **Channel 5**.

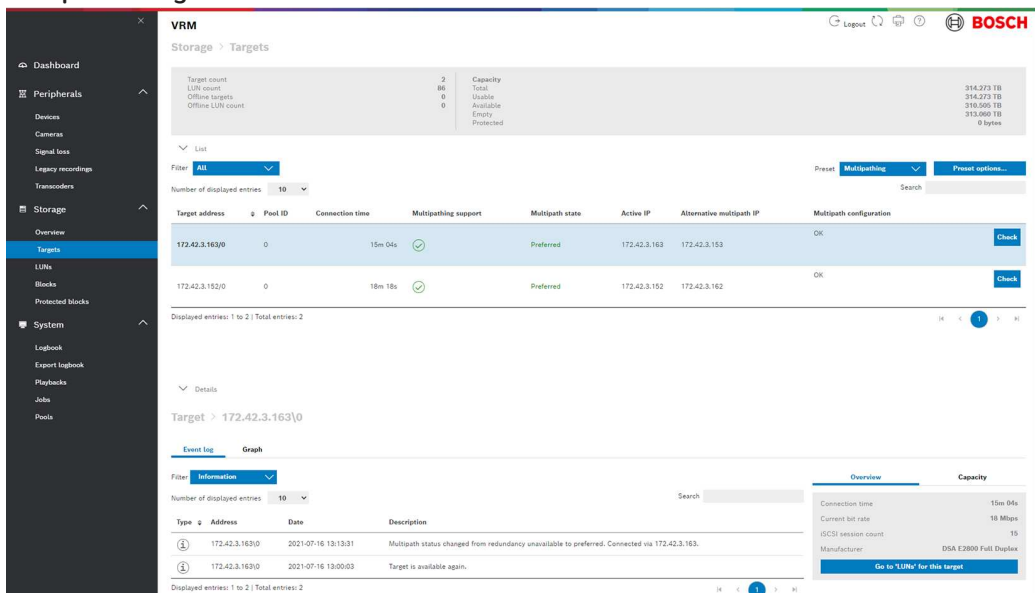


- Use the Ping command to make sure there is a connection to both alternate IP addresses.
- In the VRM Dashboard program, make sure the **Multipath configuration** column is set to **OK** for both master IP addresses.

To do this:

In the VRM Dashboard program, click **Storage**, then click **Targets**.

In the **Target address** column, select the respective row, then click **Check** to update the **Multipath configuration** column.



IQSIGHT B.V.

Achtseweg Zuid 173
5651 GW Eindhoven
The Netherlands

www.iqsight.com

© IQSIGHT 2026



202609141223