



BOSCH

DSA E-Series - Switching from LAN to fiber cables

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Installaton manual

1 Short information

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

The description is valid for the following products:

- 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
- E2800 60-bay
 - DSA-N6C8X4-60AT
 - DSA-N6C8X8-60AT
 - DSA-N6C8XC-60AT
 - DSX-N6D8X4-60AT
 - DSX-N6D8X8-60AT
 - DSX-N6D8XC-60AT
 - DSX-NRCK40-INT8

2 Switching from copper LAN cables to fiber cables



Notice!

The following description refers to a duplex controller configuration. 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 System** > **DSA E2800** system.

Click the **Network iSCSI** tab.

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

The screenshot shows the Configuration Manager interface with the Network iSCSI configuration for Controller A and Controller B. The configuration table for Controller A is as follows:

Channel 3	Channel 4	Channel 5	Channel 6
IP address 192.168.130.101	IP address 192.168.131.101	IP address 172.42.3.152	IP address 172.42.3.153
Subnet mask 255.255.255.0	Subnet mask 255.255.255.0	Subnet mask 255.255.0.0	Subnet mask 255.255.0.0
Gateway 0.0.0.0	Gateway 0.0.0.0	Gateway 172.42.1.251	Gateway 172.42.1.251
Speed 10 Gbps	Speed 10 Gbps	Speed 10 Gbps	Speed 10 Gbps
Status Connected	Status Connected	Status Connected	Status Connected
Role Master of Controller B, Channel 3	Role Alternate of Controller B, Channel 4	Role Master of Controller B, Channel 5	Role Alternate of Controller B, Channel 6

The configuration table for Controller B is as follows:

Channel 3	Channel 4	Channel 5	Channel 6
IP address 192.168.130.102	IP address 192.168.131.102	IP address 172.42.3.162	IP address 172.42.3.163
Subnet mask 255.255.255.0	Subnet mask 255.255.255.0	Subnet mask 255.255.0.0	Subnet mask 255.255.0.0
Gateway 0.0.0.0	Gateway 172.42.1.251	Gateway 172.42.1.251	Gateway 172.42.1.251
Speed 10 Gbps	Speed 10 Gbps	Speed 10 Gbps	Speed 10 Gbps
Status Connected	Status Connected	Status Connected	Status Connected
Role Alternate of Controller A, Channel 3	Role Master of Controller A, Channel 4	Role Alternate of Controller A, Channel 5	Role Master of Controller A, Channel 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**.

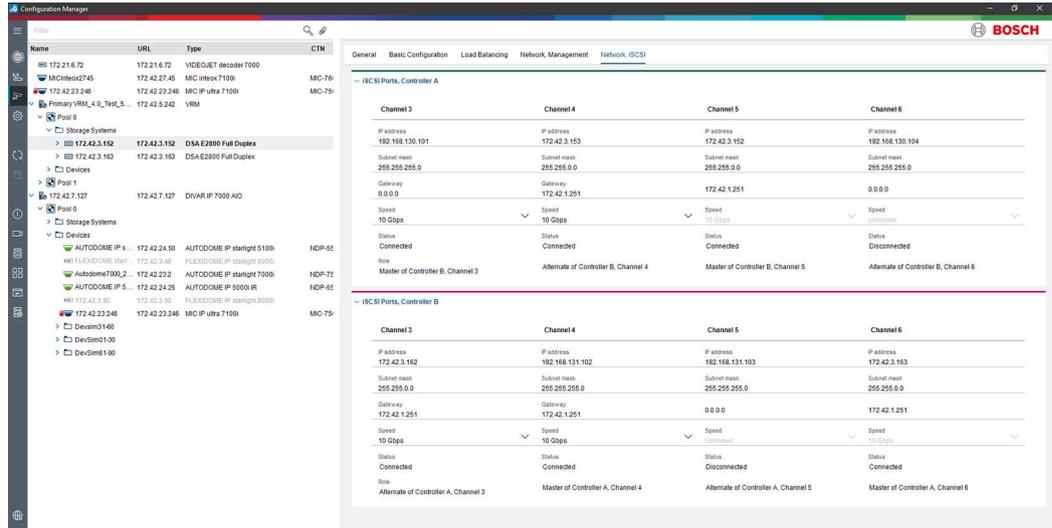
- Make sure that all devices have the status **Preferred** in the **Multipath state** column.

Camera name	Camera address	Recording block	Multipathing support	Recording target	Multipath state	Active IP
Hilissou_indoor_27.65	172.42.3.242/1/1	172.42.3.163/0/97/1024	✓	✓	Preferred	172.42.3.163
Hilissou_indoor_27.65	172.42.3.242/1/2	172.42.3.163/0/97/1023	✓	✓	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	172.42.23.120/0/1	172.42.3.163/0/97/3664	✓	✓	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	172.42.23.102/0/1	172.42.3.152/0/70/1030	✓	✓	Preferred	172.42.3.152
Camera 1	172.42.21.82/0/1	172.42.3.163/0/97/2628	✓	✓	Preferred	172.42.3.163
Camera 1	172.42.23.100/0/1	172.42.3.152/0/70/513	✓	✓	Preferred	172.42.3.152
Camera 1	172.42.21.89/0/1	172.42.3.152/0/70/1040	✓	✓	Preferred	172.42.3.152
Camera 1	172.42.21.100/0/1	172.42.3.163/0/97/2633	✓	✓	Preferred	172.42.3.163
Camera 1	172.42.23.150/0/1	172.42.3.152/0/70/1039	✓	✓	Preferred	172.42.3.152
Camera 1	172.42.21.81/0/1	172.42.3.163/0/97/2636	✓	✓	Preferred	172.42.3.163
Camera 1	172.42.23.35/0/1	172.42.3.163/0/97/3662	✓	✓	Preferred	172.42.3.163
Camera 1	172.42.23.11/0/1	172.42.3.152/0/70/1034	✓	✓	Preferred	172.42.3.152
Camera 1	172.42.21.102/0/1	172.42.3.163/0/97/2637	✓	✓	Preferred	172.42.3.163
Camera 1	172.42.80.14/0/1	172.42.3.163/0/97/3665	✓	✓	Preferred	172.42.3.163

- Disconnect both alternate copper LAN cables. In the Configuration Manager program, the respective channels appear with the status **Disconnected**.

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	255.255.0.0	172.42.1.251	10 Gbps	Connected	Master of Controller B, Channel 5
Channel 6	172.42.3.153	255.255.0.0	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	255.255.0.0	172.42.1.251	10 Gbps	Disconnected	Alternate of Controller A, Channel 5
Channel 6	172.42.3.163	255.255.0.0	172.42.1.251	10 Gbps	Connected	Master of Controller A, Channel 6

- 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.

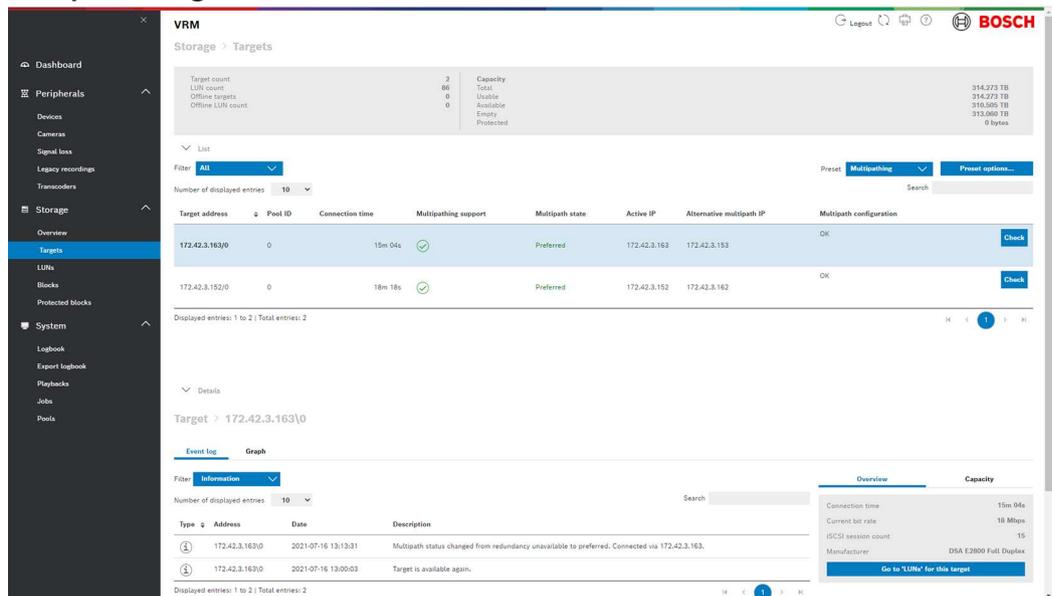


- Use the Ping command to make sure there is a connection to both alternate IP addresses.
- In the VRM Dashboard program, make sure the **Multipath configuration** column is set to **OK** for both alternate IP addresses.

To do this:

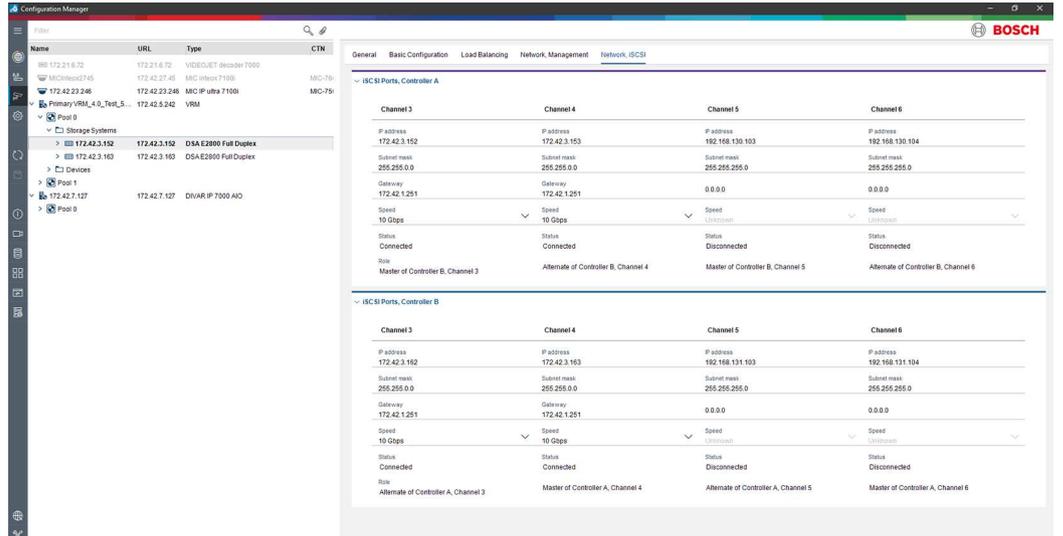
In the VRM Dashboard program, click **Storage**, then click **Targets**.

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



- Disconnect both master copper LAN cables.

- 11. 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.

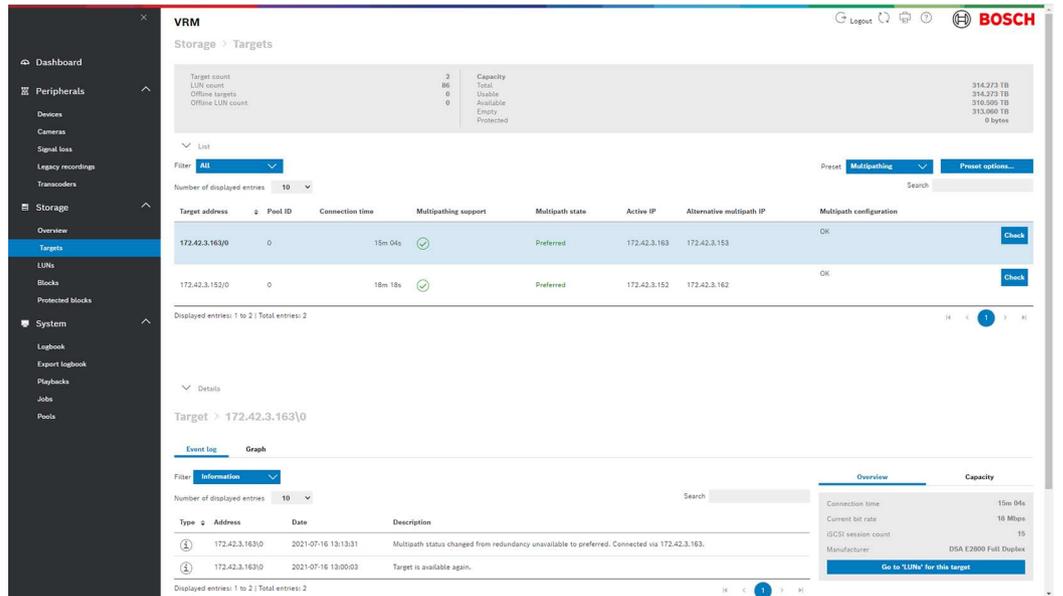


- 12. Use the Ping command to make sure there is a connection to both alternate IP addresses.
- 13. In the VRM Dashboard program, make sure the **Multipath configuration** column is set to **OK** for both master IP addresses.

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.



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