HP ProLiant DL/ML/SL Server Cabling configurations for the HP StorageWorks 600 Modular Disk System Configuration Guide
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Before you begin

Overview

This document provides instructions for directly connecting one or two HP ProLiant DL/ML/SL servers with Smart Array P212, P411, and P812 Controllers into the HP StorageWorks 600 Modular Disk System.

Cabling guidelines for MDS600

Observe the following guidelines:

- No cables ship with the MDS600. The only supported cable length that can be used is the 2.00 m (6.56 ft.) mini-SAS cable.
- 8x wide SAS cables are not supported.
- The MDS600 has two drawers. Each drawer is an independent unit. A separate connection will be needed for each drawer.
- The MDS600 does NOT support cascading I/O modules.
- Always be sure that the servers attached to the MDS600 are powered down before connecting SAS cables.
Cabling

Unsupported Smart Array Controller cabling configurations

**NOTE:** Using either of the Secondary I/O module drawers for Smart Array Controller cabling is an unsupported configuration.

**NOTE:** Only one SAS port connection on each Primary I/O module is a supported configuration. It is recommended to connect cables to SAS port 1 connectors.

**NOTE:** Cascading, directly connecting a cable from one Primary I/O module to the other Primary I/O module, is an unsupported configuration.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Primary I/O module (MDS600 Drawer 2)</td>
</tr>
<tr>
<td>2</td>
<td>Primary I/O module (MDS600 Drawer 1)</td>
</tr>
<tr>
<td>3</td>
<td>Secondary I/O module (MDS600 Drawer 2)</td>
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<tr>
<td>4</td>
<td>Secondary I/O module (MDS600 Drawer 1)</td>
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<tr>
<td>5</td>
<td>SAS port 1 connector</td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
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<td>------</td>
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</tr>
<tr>
<td>6</td>
<td>SAS port 2 connector</td>
</tr>
</tbody>
</table>

Using either of the Secondary I/O module drawers for Smart Array Controller cabling is an unsupported configuration.

Only one SAS port connection on each Primary I/O module is a supported configuration. It is recommended to connect cables to SAS port 1 connectors.

No cables ship with the MDS600. The only supported cable length that can be used is the 2.00m (6.56 ft.) mini-SAS cable.

8x wide SAS cables are not supported.

Always be sure that the servers attached to the MDS600 are powered down before connecting SAS cables.
Supported Smart Array Controller cabling configurations

Connecting two Smart Array P212 controllers to one MDS600

This example illustrates direct connections from a HP ProLiant DL/ML/SL server with two Smart Array P212 Controllers to the SAS port 1 connectors on the MDS600 Primary I/O modules.

Connect SAS cables from the server to SAS port 1 connectors on the MDS600 Primary I/O modules.

No cables ship with the MDS600. The only supported cable length that can be used is the 2.00m (6.56 ft.) mini-SAS cable.

8x wide SAS cables are not supported.

Always be sure that the servers attached to the MDS600 are powered down before connecting SAS cables.
Connecting one Smart Array P411 Controller to one MDS600

This example illustrates direct connections from a HP ProLiant DL/ML/SL server with one Smart Array P411 Controller to the SAS port 1 connectors on the MDS600 Primary I/O modules.

Connect SAS cables from the server to SAS port 1 connectors on the MDS600 Primary I/O modules.

No cables ship with the MDS600. The only supported cable length that can be used is the 2.00m (6.56 ft.) mini-SAS cable.

8x wide SAS cables are not supported.

Always be sure that the servers attached to the MDS600 are powered down before connecting SAS cables.
Connecting a P812 Smart Array Controller to MDS600

This example illustrates direct connections from a HP ProLiant DL/ML/SL server with one Smart Array P812 Controller to the SAS port 1 connectors on the MDS600 Primary I/O modules.

Connect SAS cables from the server to SAS port 1 connectors on the MDS600 Primary I/O modules.
A maximum of two ports on the Smart Array P812 Controller can be utilized.
No cables ship with the MDS600. The only supported cable length that can be used is the 2.00m (6.56 ft.) mini-SAS cable.
8x wide SAS cables are not supported.
Always be sure that the servers attached to the MDS600 are powered down before connecting SAS cables.

**NOTE:** The Smart Array P812 Controller with firmware 3.50 or greater supports the MDS600 with firmware 2.66 or greater.

**NOTE:** Maximum configuration for the Smart Array P812 Controller and the MDS600 is two drawers and seventy drives.
Connecting Smart Array P212 and P411 Controllers to an MDS600

This example illustrates direct connections from two HP ProLiant DL/ML/SL servers with one Smart Array P212 and one Smart Array P411 Controller to the SAS port 1 connectors on the MDS600 Primary I/O modules.

Connect SAS cables from the server to SAS port 1 connectors on the MDS600 Primary I/O modules. Any one port on the Smart Array P411 Controller can be utilized.

No cables ship with the MDS600. The only supported cable length that can be used is the 2.00m (6.56 ft.) mini-SAS cable.

8x wide SAS cables are not supported.

Always be sure that the servers attached to the MDS600 are powered down before connecting SAS cables.