

SAN Manager™ Quick Start Masking: HP StorageWorks XP 512

EMC ControlCenter™ 5.2



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Adding Storage Access: “How do I view and modify masking configurations?”

Required Agent: Storage Agent for HDS

Note: Host ports (HBA WWNs) must be registered with StorageWorks XP 512 storage ports before they can be granted access to the LUNs/LUN groups mapped to them.

Introduction

Masking is the management of host access to logical devices (LUNs) in storage arrays, and is also referred to as storage device masking, LUN masking, and LUN security. This quick start lists common ways to access the required information for performing masking operations in EMC ControlCenter.

For more detailed information, see online Help topics [Masking](#) and [Agent administration overview](#).

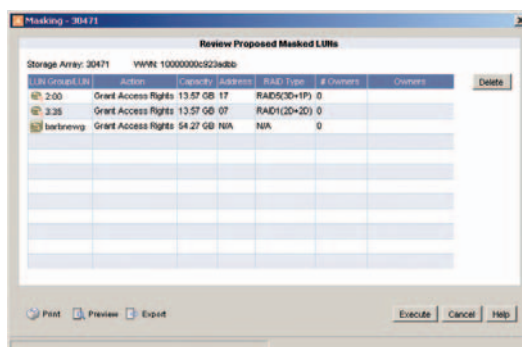
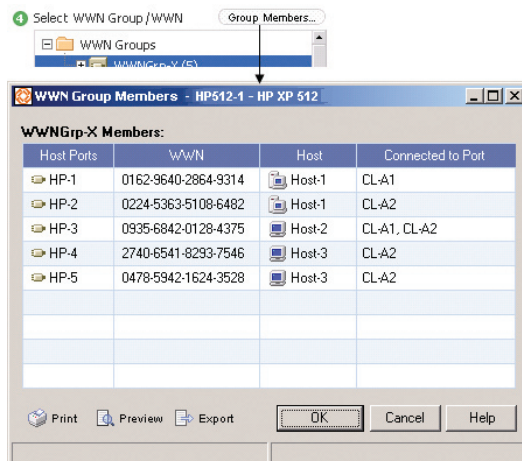
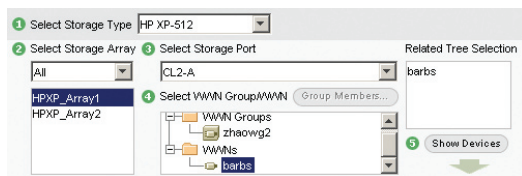
HP StorageWorks XP 512 Arrays

1. Click the drop-down arrow beside **Storage Allocation** in the Console taskbar and select **Masking**.
2. In the ControlCenter tree panel, expand **Storage Systems**, **HP XP Arrays**, **<HP StorageWorks array>**, **Controllers**, **<controller>**, **<storage port>**.
3. Check one or more of the following in the tree panel:
 - Registered host ports
 - WWN groups in a WWN Group folder
 - StorageWorks XP (HP XP) storage arrays

The screenshot shows the EMC ControlCenter interface for the 'Masking - All Storage' console. The left pane displays a tree view of storage systems, including HPXP_Array1, HPXP_Array2, and various controllers and storage ports. The main pane shows the configuration steps: 1. Select Storage Type (HP XP-512), 2. Select Storage Array (HPXP_Array1), 3. Select Storage Port (CL2-A), and 4. Select WWN Group/WWN (zhaowg2). A 'Show Devices' button is visible. Below the configuration steps, a table displays the access status for various LUNs and LUN groups.

LUN Group/LUN	Has Access Rights to WWN Group/WWN	Capacity	Access Status	#
barbnewwg	No	54.27 GB	N/A	0
2:00	No	13.57 GB	RAID5(3D+1P)	0
1:78	No	13.57 GB	RAID5(3D+1P)	0

Selected: 1 device, 13.57 GB Total: 17 devices, 271.35 GB



4. In Masking view, make selections in the following areas:
 - ① **Select Storage Type** - defaults to **HP XP 512**
 - ② **Select Storage Array**
 - ③ **Select Storage Port**
 - ④ **Select WWN Group**
5. <Optional> Under ③ **Select Storage Port**, click **Group Members** to see a list of the WWN groups and WWNs contained in the selection.
6. Click ⑤ **Show Devices** to populate the Masking view table with devices.
7. Filter the table by selecting one of the following options on the **Show** drop-down list, or accept the default filter (**All Devices**).
 - **All Devices** (default filter) – Displays all the logical devices in the storage array.
 - **Devices with No Access Rights to These WWN Groups** – Displays logical devices in the storage array that have not granted access to the WWN group(s) selected in the Masking view filter area.
 - **Devices with No Access Rights to Any WWN Groups** – Displays logical devices in the storage array that have granted no access rights to any WWN groups.
 - **Devices with Access Rights Granted to These WWN Groups** – Displays logical devices in the storage array that have granted access rights to the WWN group(s) selected in the Masking view filter area.
 - **Devices with Access Rights Granted to Any WWN Groups** – Displays logical devices in the storage array that have granted access rights to any WWN group(s).
8. Right-click one or more LUN groups and/or LUNs in the table, and select one of the following menu options:
 - **Grant Access Rights** – Adds host access to the selected LUNs for the HBA WWNs (host ports) selected in the Masking view filter area.
 - **Remove Access Rights** – Removes host access from the selected LUNs for the HBA WWNs (host ports) selected in the Masking view filter area.
9. Perform one of the following actions on the Masking review dialog box:
 - Click **Execute**. A progress bar appears at the bottom of the Masking review dialog box. The current execution step, if known, appears next to the progress bar, otherwise it displays **Executing Procedure**. When the masking actions have finished executing, the changes appear in the Console. A popup message indicates whether the operation has completed successfully or has failed.
 - Select one or more masking actions in the table, and click **Delete**. The selected actions are removed from the table.
 - Click **Cancel**. The Masking review dialog box closes. You can continue creating masking operations, or exit Masking view.

For more information, see online Help topic: [StorageWorks XP: LUN masking](#).