

SAN Manager™ Quick Start Masking: EMC Symmetrix, EMC CLARiiON, HP StorageWorks HSG80 EMC ControlCenter™ 5.2



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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](#).

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

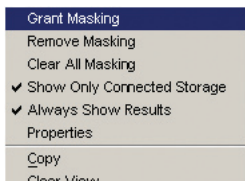
Required Agents: Storage agents, Symmetrix SDM Agent, host agents

EMC Symmetrix and HP StorageWorks HSG80 Arrays: Option 1

1. Drag a host from anywhere in the Console into Masking view. All the logical devices that are mapped to the storage ports physically connected to the host are displayed in the view.
 - The host (losan033) can access devices displayed with green backgrounds in the view.
 - Devices with a thin underline are accessed by a single host.
 - Devices with a thick underline are accessed by multiple hosts.
 - Devices with no underline are not accessed by any host.
2. To determine device properties, right-click one or more devices and select **Properties**.
3. To see which hosts have access, right-click one or more devices and select **Relationship, Host**.

The screenshot displays the 'Masking - Physically Connected Storage' view in EMC ControlCenter. On the left, a tree view shows the hierarchy: Storage Systems > Storage Administration > Hosts > losan033. The main area shows a grid of storage devices (D1-D28) with green backgrounds indicating access. A context menu is open over device D3, showing options: Clear All Masking, Show Only Connected Storage, Always Show Results, Properties, Copy, Clear View, Allocation, Agents, Relationship, Alert Thresholds, Customize, and Tools Palette. Below the grid, a table shows the properties of the selected device D3.

Storage Array	LUN	RAID	Size	Controller	Port
5000-1FE1-000A-EF60	D3	RAID 0	10.17 GB	ZG93308135	Po1
	D8	RAID 1	1.70 GB	ZG93308135	Po1



4. To add host access, right-click one or more devices and select **Grant Masking**. (You can add multiple host access to one or more devices by checking multiple hosts in the tree panel.)
 - Click **Execute** or **Execute Now** on the Modify Masking Configurations – Preview Changes dialog box. The Execute Now / Execute Later dialog box appears, where you add the *grant access* actions to a task list, and send it to the ECC Server for execution. After the actions have been executed on the ECC Server, the *grant access* actions are visible in the Console.
 - Symmetrix arrays: Select the **Activate the VCMDB** option to automatically refresh the actions created in this dialog box session to all the Fibre Channel adapters on the Symmetrix array.

Note: See [Symmetrix: Activating the VCM database](#) for using the “Make Active” command.

EMC Symmetrix and HP StorageWorks HSG80 Arrays: Option 2

1. Right-click one or more hosts, host ports, HBAs, or unidentified ports anywhere in the Console, and select **Masking, Modify Masking Configurations**.
2. In the Modify Masking Configurations dialog box, check one or more storage devices, click **Grant**, and then click **Continue**.
3. Go to steps 4a and 4b in Option 1. See [Symm/SW HSG80: Modifying masking configurations](#).

EMC CLARiiON Storage Arrays

1. In the ControlCenter tree panel, expand **Storage Systems, CLARiiON Arrays, <array name>, Storage Groups**.
2. Right-click a storage group and select **Edit**. The CLARiiON Storage Group Configuration wizard opens.
3. On page 1, under **Existing Storage Group**, select the storage group to which you want to add LUNs, and click **Next**.
4. On page 2, add or remove LUNs to or from the storage group, and click **Next**.
5. On page 3, bind or unbind hosts to or from the storage group, and click **Next**.
6. On page 4, review the proposed changes, and click **Execute** or **Execute Later**, or click **Edit** to make more changes.
7. On the Execute Now / Later dialog box, add the action(s) to a task list, and send it to the ECC Server for execution.

The Storage Group Configuration Wizard can be launched by right-clicking CLARiiON storage objects and/or subdirectories in the ControlCenter tree panel, and selecting commands from the pop-up menu, or selecting commands from the ControlCenter **Masking** submenus.

See [CLARiiON: LUN Masking](#) for detailed instructions.

