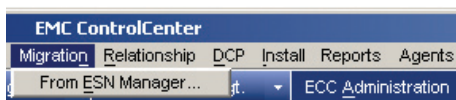
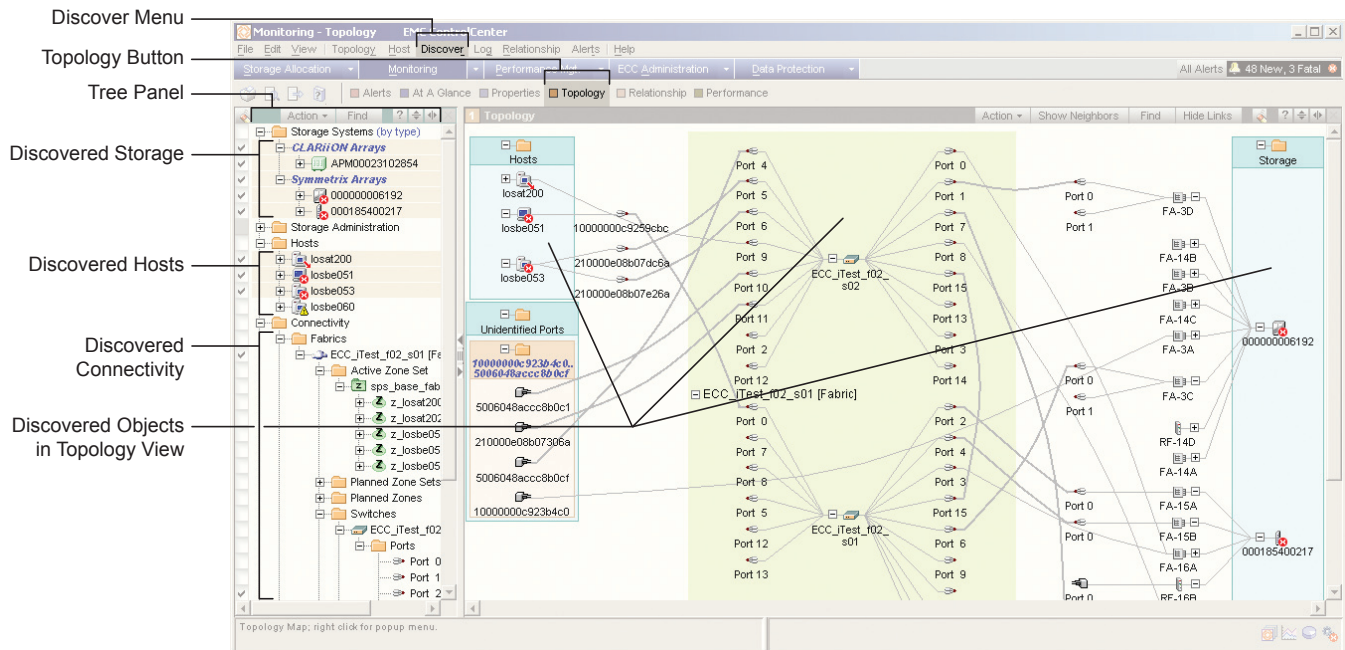


Introduction

Discovery uses ControlCenter agents to identify objects in the SAN and display them and their relationships in the Console's Topology view. See online Help topic [Agent administration overview](#).

Viewing the Topology of Your SAN

1. Open ControlCenter and click **Topology** in the Console toolbar.
2. Add any discovered object in the tree panel to Topology view by checking the box to its left, double-clicking it, or dragging it into the view.
3. Expand objects as desired and move the pointer over them to view links between ports. (Click **Show Links** to see all links; use the **Action** menu to expand all objects.)



Migrating From ESN Manager: “How do I move quickly from ESN Manager to ControlCenter’s SAN Manager?”

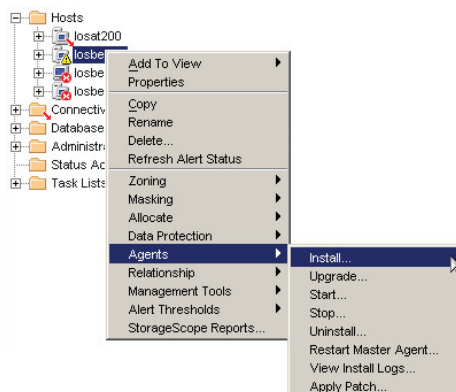
Required Agent: Fibre Channel Connectivity Agent

The ESN Migration Wizard imports information on discovered switches, zones, zone sets, and user-defined aliases from ESN Manager, giving you an immediate view of your SAN environment. You can then install host and storage agents to discover, monitor, and manage your entire SAN. See [ESN Migration Wizard: Overview](#).

Discovering Hosts: “How do I get the hosts in my SAN into the ControlCenter topology?”

Required Agent: Host agent

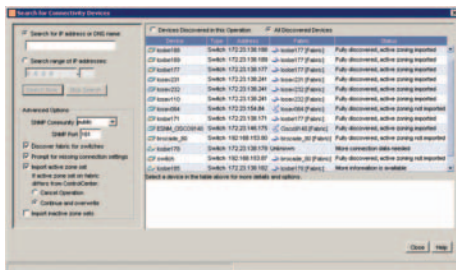
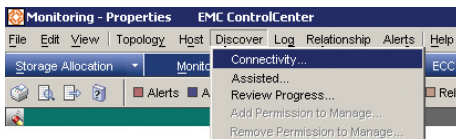
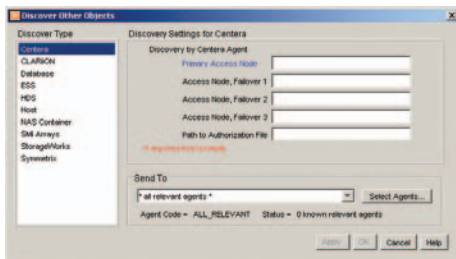
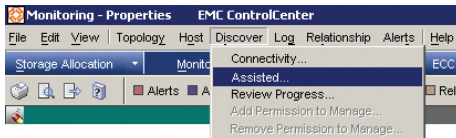
1. Install a host agent on each host you want to discover and monitor. Expand **Hosts** in the Console tree panel, right-click hosts (must be running a Master Agent) and select **Agents, Install**.
2. The host agent discovers local host information. HBAs are placed in the **Adapters** folder under the host in the tree panel. If a host does not have the needed libraries, the host ports cannot be discovered, and may later be placed in the **Connectivity/Unidentified Ports** folder by the FCC Agent. See [Cleaning Up the Topology](#).



Discovering Symmetrix® Arrays: “I added a new Symmetrix to my SAN. How do I get it into the ControlCenter topology?”

Required Agent: Storage Array for Symmetrix

1. Install the Storage Agent for Symmetrix on a host with an in-band (Fibre Channel) connection to the new Symmetrix array. Expand **Hosts** in the Console tree panel, right-click a host (must be running a Master Agent), and select **Agents, Install** (as shown in [Discovering Hosts](#)).
2. ControlCenter discovers the Symmetrix array and adds it to the topology.



Discovering Other Arrays and Objects: “How do I discover a CLARiiON® array and an Oracle database and get them into the ControlCenter topology?”

Required Agents: Storage agents, database agents, Common Mapping Agent (for host objects)

1. Gather the required connection information for the devices you want to discover—IP address, username, password, and so on.
2. Click **Monitoring** in the Console taskbar and select **Discover, Assisted** to launch the Discover Other Objects dialog box, then select the appropriate Discover Type and enter the required information. See [Using Assisted Discovery](#).
3. ControlCenter discovers the object and adds it to the topology.

Discovering Switches and Fabrics: “I want to discover the switches and fabrics I need to manage. How do I do this?”

Required Agent: Fibre Channel Connectivity Agent

1. Gather needed connection information for the switches to be discovered—IP address (of the service processor for McDATA, the switch for Brocade, the proxy server for CNT, the agent managing the switch for Cisco) as well as username, password, and so on.
2. Click **Monitoring** in the Console taskbar and select **Discover, Connectivity** to launch the Search for Connectivity Devices dialog box. Enter the IP addresses and other information to be discovered. Advanced options let you prompt for connection information as needed, discover full topology and fabric information for switches, and import zoning. See [Discovering connectivity devices](#).
3. ControlCenter discovers the specified devices and fabrics in the SAN, displaying the status of each and adding it to the topology.

Cleaning Up the Topology: “I can’t see the HBAs for some hosts, and some ports are unidentified. How do I fix this?”

The FCC Agent discovers previously undiscovered host ports as unidentified ports without host containers, and places them in the **Connectivity/Unidentified Ports** folder in the tree panel and Topology view (see image in [Viewing the Topology of your SAN](#)). Install a host agent on a host to discover its HBAs and place them within the host. You can also use the Topology Edit Service (TES) to associate the unidentified ports with their hosts, or with hosts you have created. See [Topology Edit Service](#).

Updating the Topology: “Once I’ve discovered the topology, what keeps it up to date?”

ControlCenter’s data collection policies instruct ControlCenter agents to regularly collect information about the objects in your SAN and update the Console. To keep the topology up to date, you must enable and configure the appropriate data collection policies. See [Data collection policies overview](#).