CHAPTER 21

Discovering SCSI Targets

This chapter describes the SCSI LUN discovery feature provided in switches in the Cisco Nexus 5000 Series. It includes the following sections:

Information About SCSI LUN Discovery

Small Computer System Interface (SCSI) targets include disks, tapes, and other storage devices. These targets do not register logical unit numbers (LUNs) with the name server.

The name server requires LUN information for the following reasons:

- To display LUN storage device information so that a Network Management System (NMS) can access this information.
- To report device capacity, serial number, and device ID information.
- To register the initiator and target features with the name server.

The SCSI LUN discovery feature uses the local domain controller Fibre Channel address. It uses the local domain controller as the source FC ID, and performs SCSI INQUIRY, REPORT LUNS, and READ CAPACITY commands on SCSI devices.

The SCSI LUN discovery feature is initiated on demand, through CLI or SNMP. This information is also synchronized with neighboring switches, if those switches belong to the Cisco Nexus 5000 Series.

This section includes the following topics:

About Starting SCSI LUN Discovery

SCSI LUN discovery is done on demand.

Only Nx ports that are present in the name server database and that are registered as FC4 Type = SCSI_FCP are discovered.

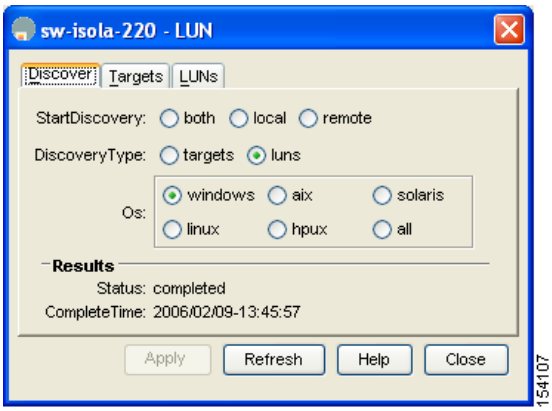
Starting SCSI LUN Discovery

To begin SCSI LUN discovery using Device Manager, perform this task:

Step 1 Choose **FC > Advanced > LUN**s.

You see the LUN Configuration dialog box as shown in Figure 21-1.

Figure 21-1 LUN Configuration Dialog Box



Step 2 Set StartDiscovery to **local**, **remote** or **both**.

Step 3 Choose the **DiscoveryType** and **OS**.

Step 4 Click **Apply** to begin discovery.

About Initiating Customized Discovery

Customized discovery consists of a list of VSAN and domain pairs that are selectively configured to initiate a discovery. The domain ID is a number from 0 to 255 in decimal or a number from 0x0 to 0xFF in hex.

Initiating Customized Discovery

To initiate a customized discovery using Device Manager, perform this task:

Step 1 Click the VSAN drop-down menu and choose the VSAN in which you want to initiate a customized discovery.

Step 2 Choose **FC > Advanced > LUNs**.

You see the LUN Configuration dialog box.

Step 3 Set StartDiscovery to **local**, **remote** or **both**.

Step 4 Fill in the DiscoveryType and OS fields.

Step 5 Click **Apply** to begin discovery.

Displaying SCSI LUN Information

To display the results of the discovery using Device Manager, perform this task:

Step 1 Choose **FC > Advanced > LUN**s

You see the LUN Configuration dialog box.

Step 2 Click the **LUN** tab or the **Targets** tab.