



Discovering SCSI Targets

This chapter describes the SCSI LUN discovery feature provided in switches in the Cisco MDS 9000 Family. It includes the following sections:

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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 an 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 MDS 9000 Family.

Starting SCSI LUN Discovery

SCSI LUN discovery is done on demand.

To begin SCSI LUN discovery, follow this step:

	Command	Purpose
Step 1	switch# discover scsi-target local discovery started switch#	Discovers local SCSI targets.
	switch# discover scsi-target remote discovery started switch#	Discovers remote SCSI targets.
	switch# discover scsi-target vsan 1 fcid 0x9c03d6 discover scsi-target vsan 1 fcid 0x9c03d6 VSAN: 1 FCID: 0x9c03d6 PWWN: 00:00:00:00:00:00:00:00 PRLI RSP: 0x01 SPARM: 0x0012 SCSI TYPE: 0 NLUNS: 1 Vendor: Company 4 Model: ST318203FC Rev: 0004 Other: 00:00:02:32:8b:00:50:0a switch#	Discovers SCSI targets for the specified VSAN (1) and FC ID (0x9c03d6).

Only Nx Ports present in the name server database and which have registered a FC4 Type = SCSI_FCP are discovered.

Displaying SCSI LUN Information

Use the **show scsi-target** and **show fcns database** commands to display the results of the discovery. See Examples 21-1 to 21-4

Example 21-1 Displays the Discovered Targets

```
switch# show scsi-target status
discovery completed
```



Note

The discovery can take several minutes to complete, especially if the fabric is large fabric or if several devices are slow to respond.

Example 21-2 Displays the FCNS Database

```
switch# show fcns database
VSAN 1:
```

```
-----
FCID          TYPE  PWWN                               (VENDOR)          FC4-TYPE:FEATURE
-----
0x9c0000      N     21:00:00:e0:8b:08:96:22 (Company 1)      scsi-fcp:init
0x9c0100      N     10:00:00:05:30:00:59:1f (Company 2)      ipfc
0x9c0200      N     21:00:00:e0:8b:07:91:36 (Company 3)      scsi-fcp:init
0x9c03d6      NL    21:00:00:20:37:46:78:97 (Company 4)      scsi-fcp:target
0x9c03d9      NL    21:00:00:20:37:5b:cf:b9 (Company 4)      scsi-fcp:target
0x9c03da      NL    21:00:00:20:37:18:6f:90 (Company 4)      scsi-fcp:target
0x9c03dc      NL    21:00:00:20:37:5a:5b:27 (Company 4)      scsi-fcp:target
0x9c03e0      NL    21:00:00:20:37:36:0b:4d (Company 4)      scsi-fcp:target
-----
```

```

0x9c03e1  NL  21:00:00:20:37:39:90:6a (Company 4)  scsi-fcp:target
0x9c03e2  NL  21:00:00:20:37:18:d2:45 (Company 4)  scsi-fcp:target
0x9c03e4  NL  21:00:00:20:37:6b:d7:18 (Company 4)  scsi-fcp:target
0x9c03e8  NL  21:00:00:20:37:38:a7:c1 (Company 4)  scsi-fcp:target
0x9c03ef  NL  21:00:00:20:37:18:17:d2 (Company 4)  scsi-fcp:target

```

Total number of entries = 13

Example 21-3 Displays the Discovered Target Disks

```
switch# show scsi-target disk
```

```

-----
VSAN      FCID      PWWN      VENDOR      MODEL      REV
-----
1         0x9c03d6  21:00:00:20:37:46:78:97  Company 4  ST318203FC  0004
1         0x9c03d9  21:00:00:20:37:5b:cf:b9  Company 4  ST318203FC  0004
1         0x9c03da  21:00:00:20:37:18:6f:90  Company 4  ST318203FC  0004
1         0x9c03dc  21:00:00:20:37:5a:5b:27  Company 4  ST318203FC  0004
1         0x9c03e0  21:00:00:20:37:36:0b:4d  Company 4  ST318203FC  0004
1         0x9c03e1  21:00:00:20:37:39:90:6a  Company 4  ST318203 CLAR18  3844
1         0x9c03e2  21:00:00:20:37:18:d2:45  Company 4  ST318203 CLAR18  3844
1         0x9c03e4  21:00:00:20:37:6b:d7:18  Company 4  ST318203 CLAR18  3844
1         0x9c03e8  21:00:00:20:37:38:a7:c1  Company 4  ST318203FC  0004
1         0x9c03ef  21:00:00:20:37:18:17:d2  Company 4  ST318203FC  0004

```

Example 21-4 Displays the Discovered LUNs

```
switch# show scsi-target lun
```

```

- ST318203FC      from Company 4 (Rev 0004)
  FCID is 0x9c03d6 in VSAN 1, PWWN is 21:00:00:20:37:46:78:97
-----
LUN      Capacity  Status Serial Number  Device-Id
(MB)
-----
0x0      18210      Online LRA2510000007027 C:1 A:0 T:3 20:00:00:20:37:46:78:97
- ST318203FC      from Company 4 (Rev 0004)
  FCID is 0x9c03d9 in VSAN 1, PWWN is 21:00:00:20:37:5b:cf:b9
-----
LUN      Capacity  Status Serial Number  Device-Id
(MB)
-----
0x0      18210      Online LR948730000007029 C:1 A:0 T:3 20:00:00:20:37:5b:cf:b9
- ST318203FC      from Company 4 (Rev 0004)
  FCID is 0x9c03da in VSAN 1, PWWN is 21:00:00:20:37:18:6f:90
-----
LUN      Capacity  Status Serial Number  Device-Id
(MB)
-----
0x0      18210      Online LR185918000001004 C:1 A:0 T:3 20:00:00:20:37:18:6f:90
- ST318203FC      from Company 4 (Rev 0004)
  FCID is 0x9c03dc in VSAN 1, PWWN is 21:00:00:20:37:5a:5b:27
-----
LUN      Capacity  Status Serial Number  Device-Id
(MB)
-----
0x0      18210      Online LRC449820000007031 C:1 A:0 T:3 20:00:00:20:37:5a:5b:27
- ST318203FC      from Company 4 (Rev 0004)
  FCID is 0x9c03e0 in VSAN 1, PWWN is 21:00:00:20:37:36:0b:4d
-----
LUN      Capacity  Status Serial Number  Device-Id
(MB)
-----

```

■ Displaying SCSI LUN Information

```

0x0      18210      Online LR18184700007024 C:1 A:0 T:3 20:00:00:20:37:36:0b:4d
- ST318203 CLAR18  from Company 4 (Rev 3844)
FCID is 0x9c03e1 in VSAN 1, PWWN is 21:00:00:20:37:39:90:6a
-----
LUN      Capacity  Status Serial Number   Device-Id
      (MB)
-----
0x0      18200      Online LR64147100001017 C:1 A:0 T:3 20:00:00:20:37:39:90:6a
- ST318203 CLAR18  from Company 2 (Rev 3844)
FCID is 0x9c03e2 in VSAN 1, PWWN is 21:00:00:20:37:18:d2:45
-----
LUN      Capacity  Status Serial Number   Device-Id
      (MB)
-----
0x0      18200      Online LR28349500001952 C:1 A:0 T:3 20:00:00:20:37:18:d2:45
- ST318203 CLAR18  from Company 2 (Rev 3844)
FCID is 0x9c03e4 in VSAN 1, PWWN is 21:00:00:20:37:6b:d7:18
-----
LUN      Capacity  Status Serial Number   Device-Id
      (MB)
-----
0x0      18200      Online LRF7150500001041 C:1 A:0 T:3 20:00:00:20:37:6b:d7:18
- ST318203FC      from Company 2 (Rev 0004)
FCID is 0x9c03e8 in VSAN 1, PWWN is 21:00:00:20:37:38:a7:c1
-----
LUN      Capacity  Status Serial Number   Device-Id
      (MB)
-----
0x0      18210      Online LR43588300001011 C:1 A:0 T:3 20:00:00:20:37:38:a7:c1
- ST318203FC      from Company 2 (Rev 0004)
FCID is 0x9c03ef in VSAN 1, PWWN is 21:00:00:20:37:18:17:d2
-----
LUN      Capacity  Status Serial Number   Device-Id
      (MB)
-----
0x0      18210      Online LR06903200001949 C:1 A:0 T:3 20:00:00:20:37:18:17:d2

```