

CHAPTER 1

EVC Discovery through CLI

The content of this document describes EVC discovery through CLI.

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Overview

Ethernet virtual circuit (EVC) is a logical connection between provider edge devices in the service provider network which communicates with the customer edge devices. The termination points of an EVC is called an EVC endpoint. EVCs and EVC endpoints are discovered for monitoring their status. EVCs are discovered by MPLS and EVC endpoints are discovered by IP-AM. The discovered EVC endpoints are imported from IP into MPLS which then creates the EVC endpoint objects. The EVC endpoint objects and their attributes can be viewed in the topology browser.

Discovery

EVCs are discovered through SNMP discovery and CLI discovery. SNMP and CLI discovery discover all devices on the network that are reachable through IP protocol.

A device must be CLI enabled for it to be discovered through CLI. Devices that are discovered for EVCs through SNMP must support MIB. MIB contains information about EVCs configured on the device. Cisco ME3750 switches do not support MIB. So EVCs on Cisco ME3750 can be discovered only through CLI discovery.

During CLI discovery of EVCs, EVC endpoints are automatically discovered and EVC endpoint objects that contain EVC discovery information are created in the topology.

[Table 1 on page 2](#) provides the list of attributes of EVC endpoint objects that are created through CLI discovery

Table 1 Attributes of EVC endpoint objects

Attribute	Definition
CEVLANs	Provides the CE-VLAN id associated with the EVC.
EncapsulationType	Provides the type of encapsulation used by the user network interface.
EVC endpointId	Provides the service instance id.
EVCId	Provides the name of the EVC.
EVCType	Provides the type of connection. For example, point-to-point, multipoint-to-multipoint.
ForwardBridgeDomain	Provides the bridge domain id.
NetworkAdapterName	Provides the name of the port or interface where the EVC endpoint is configured.
NetworkAdapterNumber	Provides the number of port or interface to which the EVC endpoint is configured.
OuterSVlanTag	Provides the service VLAN id associated with the port.
RewriteAction	Provides the VLAN rewrite action specified on the interface. For example, POP1, PUSH1.
ServiceVLANTag	Provides the service VLAN id associated with the EVC.
SystemName	Provides the name of the host system.

Table 1 Attributes of EVCEndpoint objects

Attribute	Definition
UNIID	Provides the name of the user network interface.
EVCStatus	Provides the status of the EVC. For example, active, inactive.
OperStatus	Provides the status of the service instance. For example, up, down.

To view the CLI discovered EVC service information for Cisco devices run the following commands through CLI:

```
show ethernet service evc detail
```

Reference output from a CLI discovery,

```
EVC ID: EVC_EME_CISCO_ONLY_1002
EVC Type: P-P
UNI Count: Configured = 2, Active = 2
EVC Status: Active
Associated Local Interfaces:
Interface                               CE-Vlans
FastEthernet1/0/7                       102
Associated UNIs:
UNI-Identifier                           Status              Location
VLAN_102                                Up                  Fa1/0/7
VLAN_102                                Up                  Remote
```

To view the CLI discovered EVC service instance information for Cisco devices run the following commands through CLI:

```
show ethernet service instance detail
```

Reference output from a CLI discovery,

```
Service Instance ID: 102
Associated Interface: FastEthernet1/0/7
Associated EVC: EVC_EME_CISCO_ONLY_1002
L2protocol drop
CE-Vlans: 102
Interface Dot1q Tunnel Ethertype: 0x8100
State: Up
EFP Statistics:
Pkts In   Bytes In   Pkts Out   Bytes Out
0         0         0         0
```

