



Use Cases

This section presents a few essential use cases for configuring in the ME 1200 Cisco Ethernet Switch Web GUI Interface.

- [Configuring Y.1731, page 1](#)
- [Configuring RFC2544, page 5](#)

Configuring Y.1731

This use case describes the flow of configurations that are required to configure the Y.1731 feature in the Cisco ME 1200 Web GUI Interface.

Prerequisites for ITU-T Y.1731 Performance Monitoring In a Service Provider Network

- IEEE-compliant Connectivity Fault Management (CFM) must be configured and enabled for Y.1731 performance monitoring to function.



Note If we are configuring MEP in EVC domain, EVC must be configured. If we are configuring MEP in VLAN domain, VLAN must be created.

Steps to Configure Y1731

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- Step 1** To configure ECE, click **Configurations > Ethernet Services > ECE**. For more information, [ECE Control List Configuration](#).

The screenshot displays the Cisco ME1200 GigaBit Ethernet Switch configuration page for ECE Configuration. The left sidebar shows the navigation tree with 'Ethernet Services' expanded to 'EVCs'. The main content area is titled 'ECE Configuration' and includes the following sections:

- UNI Ports:** A row of six checkboxes labeled 1 through 6, with the first checkbox selected.
- Ingress Matching:** A table of configuration options:

Lookup	Basic
Tag Type	Tagged
VLAN ID Filter	Specific
VLAN ID Value	20
PCP	Any
DEI	Any
Inner Tag Type	Any
Frame Type	Any
- Actions:** A table of configuration options:

Direction	Both
Rule Type	Both
TX Lookup	VID
L2CP Mode	Forward
L2CP DMAC	Custom
EVC ID Filter	Specific
EVC ID Value	1
Policer ID Filter	Specific
Policer ID Value	2
Tag Pop Count	0
Policy ID	0
Class	2
Drop Precedence	Disabled
- MAC Parameters:** A table of configuration options:

SMAC Filter	Any
DMAC Filter	Any
- Egress Outer Tag:** A table of configuration options:

Mode	Disabled
VLAN ID	1
PCP Mode	Classified
PCP	0
- Egress Inner Tag:** A table of configuration options:

Type	None
VLAN ID	1
PCP Mode	Classified
PCP	0

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Step 2 To configure EVC, click **Configuration > Ethernet Services > EVCs**. For more information, see [EVC Port Configuration](#)

The screenshot displays the Cisco ME1200 GigaBit Ethernet Switch configuration page for EVC Configuration. The left sidebar shows the navigation tree with 'Ethernet Services' expanded to 'EVCs'. The main content area is titled 'EVC Configuration' and includes the following sections:

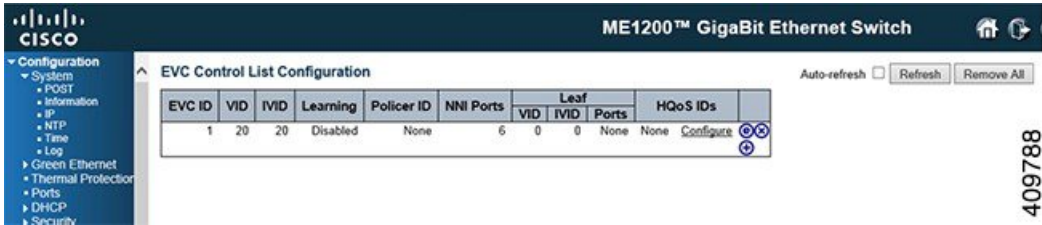
- NNI Ports:** A row of six checkboxes labeled 1 through 6, with the sixth checkbox selected.
- EVC Parameters:** A table of configuration options:

EVC ID	1
VID	20
IVID	20
Learning	Disabled
Policer ID Filter	None
- Leaf Parameters:** A table of configuration options:

VID	0
IVID	0
- Leaf Ports:** A row of six checkboxes labeled 1 through 6, with the first checkbox selected.

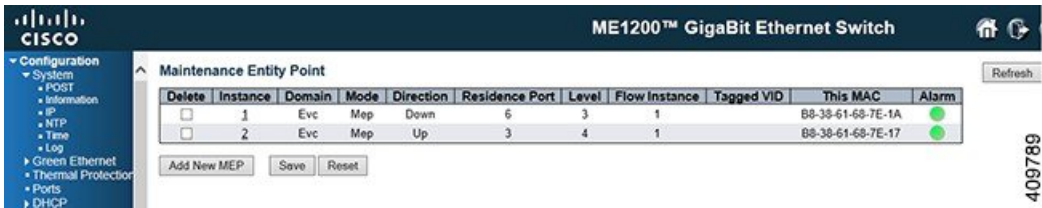
At the bottom of the configuration area, there are three buttons: 'Save', 'Reset', and 'Cancel'.

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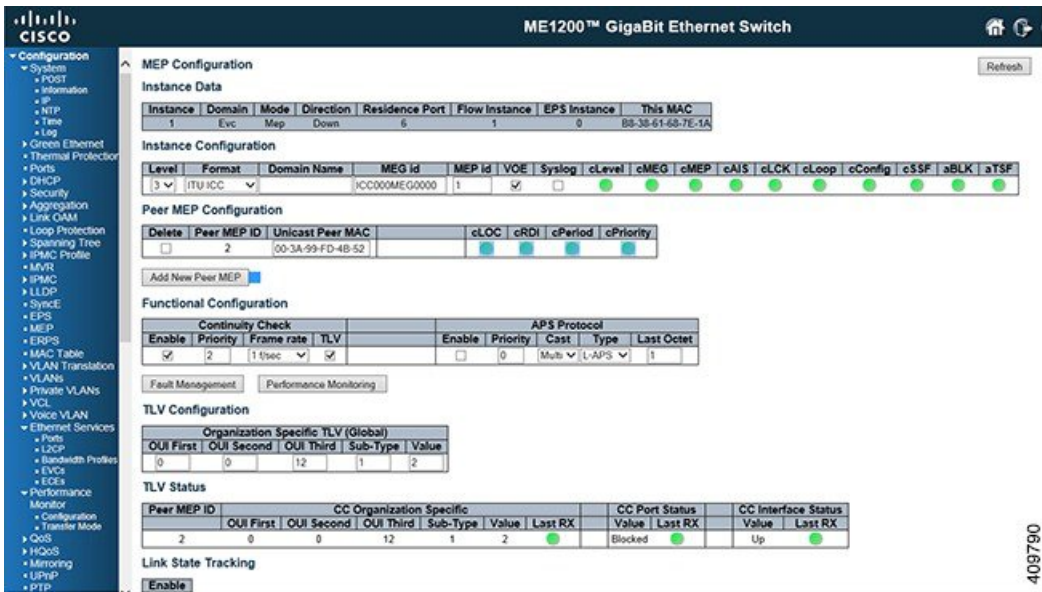
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Step 3 To configure MEP, click **Configuration > MEP**. For more information, see [Maintenance Entity Point](#)



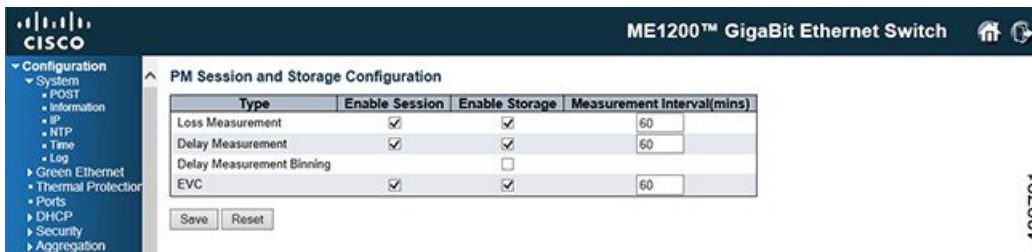
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Step 4 Click on the instance number which is created in the above step to configure MEP parameters.



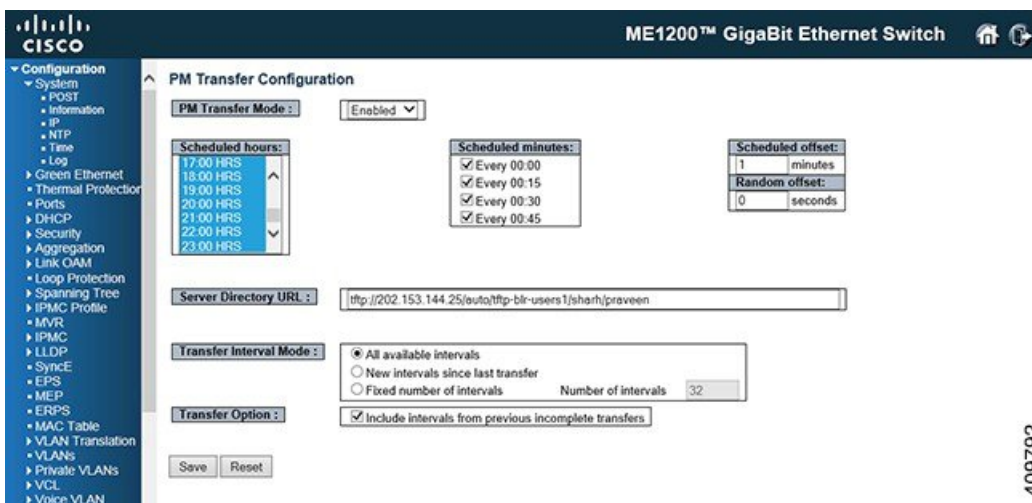
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Step 5 To configure the Performance Monitoring session and storage, click **Configuration > Performance Monitor > Configuration**. This enables the session and storage parameters which stores session data in the RAM storage data in the flash respectively. For more information, see [Performance Monitor Configuration](#)



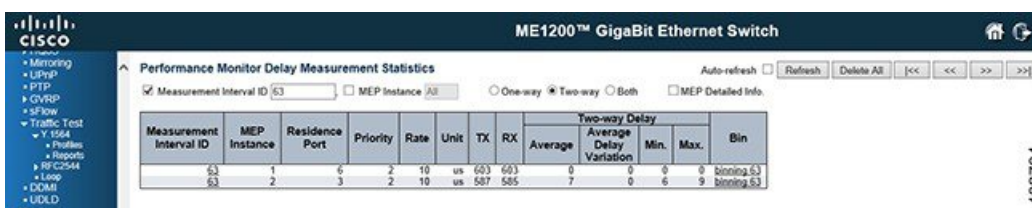
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Step 6 To transfer performance monitoring data to a tftp/http server, click **Configuration > Performance Monitor > Transfer Mode**. For more information, see [Performance Monitor Transfer Configuration](#)



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Step 7 To enable Performance Monitoring, click **Configuration > MEP > MEP instance > Performance Monitoring**. For more information, see [Maintenance Entity Point](#)



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Step 8 To enable Fault Management, click **Configuration > MEP > MEP instance > Fault Management**. For more information, see [Maintenance Entity Point](#)

ME1200™ GigaBit Ethernet Switch

Configuration > Fault Management - Instance 1 - MEP id 1

Refresh

Loop Back

Enable	Del	Priority	Cast	Peer MEP	Unicast MAC	To Send	Size	Interval
<input checked="" type="checkbox"/>	<input type="checkbox"/>	2	Mult	2	00-00-00-00-00-00	10	64	100

Loop Back State

Transaction ID	Transmitted	Reply MAC	Received	Out Of Order
1	0	00-00-00-00-00-00	0	0

Link Trace

Enable	Priority	Peer MEP	Unicast MAC	Time To Live
<input checked="" type="checkbox"/>	2	2	00-00-00-00-00-00	1

Link Trace State

Transaction ID	Time To Live	Mode	Direction	Forwarded	Relay	Last MAC	Next MAC
No Transactions							

Test Signal

Tx	Rx	Del	Priority	Peer MEP	Rate	Size	Pattern	Sequence Number
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	1	1	64	All Zero	<input type="checkbox"/>

Test Signal State

TX frame count	RX frame count	RX rate	Test time	Clear
0	0	0	0	<input type="checkbox"/>

Client Configuration

Domain	Flow									
Evc	0	0	0	0	0	0	0	0	0	0
Level	0	0	0	0	0	0	0	0	0	0
AIS prio	0	0	0	0	0	0	0	0	0	0
LCK prio	0	0	0	0	0	0	0	0	0	0

AIS

Enable	Frame Rate	Protection
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Configuring RFC2544

This use case describes the flow of configurations that are required to configure the RFC2544 feature in the Cisco ME 1200 Web GUI Interface.

Steps to Configure RFC2544

- Step 1** To configure RFC2544, click **Configuration > Traffic Test > RFC2544 > Profiles**. This option provides an overview of the defined profiles along with options for editing and deleting them and creating new one. For more information, [RFC2544 Profile Overview](#)

RFC2544 Profile Configuration

Common Parameters	
Profile Name	abcd
Description	abcd
MEG Level	5
Egress Port	Port 3
Sequence Number Check	<input type="checkbox"/>
Dwell Time	2 secs
Type	Port Down-MEP
VLAN ID	1
PCP	0
DEI	0
DMAC	00-00-00-00-00-01

Frame Sizes				
<input checked="" type="checkbox"/> 64	<input checked="" type="checkbox"/> 128	<input checked="" type="checkbox"/> 256	<input checked="" type="checkbox"/> 512	<input checked="" type="checkbox"/> 1024
<input checked="" type="checkbox"/> 1280	<input checked="" type="checkbox"/> 1518	<input checked="" type="checkbox"/> 2000	<input type="checkbox"/> 9600	

Tests to Run	
<input checked="" type="checkbox"/> Throughput	<input checked="" type="checkbox"/> Latency
<input type="checkbox"/> Frame Loss	<input type="checkbox"/> Back-to-Back

Throughput Test Parameters	
Trial Duration	60 secs
Minimum Rate	800 %
Maximum Rate	1000 %
Accuracy	2 %
Allowed Frame Loss	0 %

Latency Test Parameters	
Trial Duration	120 secs
Delay Meas. Interval	10 secs

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Step 2 To disable Port 3 in STP, click **Configuration > Spanning Tree > CIST Ports**. The STP option allows you to inspect the current STP CIST port configurations and change them. For more information, see [STP CIST Port Configuration](#)

CIST Normal Port Configuration

Port	STP Enabled	Path Cost	Priority	Admin Edge	Auto Edge	Restricted Role	TCN	BPDU Guard	Point-to-point
1	<input checked="" type="checkbox"/>	Auto	128	Non-Edge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Auto
2	<input checked="" type="checkbox"/>	Auto	128	Non-Edge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Auto
3	<input type="checkbox"/>	Auto	128	Non-Edge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Auto
4	<input checked="" type="checkbox"/>	Auto	128	Non-Edge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Auto
5	<input checked="" type="checkbox"/>	Auto	128	Non-Edge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Auto
6	<input checked="" type="checkbox"/>	Auto	128	Non-Edge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Auto

Save Reset

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Step 3 To disable LLDP on Port 3, click **Configuration > LLDP > LLDP Port Configuration**. The LLDP option allows you to inspect and configure the current LLDP port settings. For more information, see [LLDP Configuration](#)

LLDP Port Configuration

Port	Mode	CDP aware	Optional TLVs				
			Port Descr	Sys Name	Sys Descr	Sys Capa	Mgmt Addr
*	<>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1	Enabled	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	Enabled	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	Disabled	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	Enabled	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	Enabled	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	Enabled	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Save Reset

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Step 4 To configure VLAN settings, click **Configuration > VLAN > VLAN Configuration**. For more information on configuring VLANs, see [VLAN Configuration](#)

Port VLAN Configuration

Port	Mode	Port VLAN	Port Type	Ingress Filtering	Ingress Acceptance	Egress Tagging	Allowed VLANs	Forbidden VLANs
*	<>	1	<>	<input checked="" type="checkbox"/>	<>	<>	1	
1	Access	1	C-Port	<input checked="" type="checkbox"/>	Tagged and Untagged	Untag All	1	
2	Access	1	C-Port	<input checked="" type="checkbox"/>	Tagged and Untagged	Untag All	1	
3	Trunk	3	C-Port	<input checked="" type="checkbox"/>	Tagged Only	Tag All	1-4095	
4	Access	1	C-Port	<input checked="" type="checkbox"/>	Tagged and Untagged	Untag All	1	
5	Access	1	C-Port	<input checked="" type="checkbox"/>	Tagged and Untagged	Untag All	1	
6	Access	1	C-Port	<input checked="" type="checkbox"/>	Tagged and Untagged	Untag All	1	

Save Reset

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Step 5 To execute a test run of RFC2455 configuration, click **Configuration > Traffic Test > RFC2544 > Reports**. For more information, see [RFC2544 Report Overview](#)

RFC2544 Test Start

Report Name: xyz

Description: report

Profile: abcd

Run Cancel

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Step 6 To configure on a remote nid to Loop, click **Configuration > Traffic Test > RFC2544 > Loop**. For more information, see [TT-LOOP](#)

Traffic Test Loop

Delete	Instance	Name	Domain	Flow	Type	Direction	Residence Port	Operational State
Delete	1		Port	1	Mac-Loop	Facility	6	

Add New TT-LOOP Save Reset

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Step 7 The loopback must be enabled in the remote end and port should be *Active*. For more information, see [Maintenance Entity Point](#)

The screenshot shows the Cisco ME1200 GigaBit Ethernet Switch web interface. On the left is a navigation menu with options like LLDP, MEP, ERPS, MAC Table, VLANs, VLAN Translation, Private VLANs, VCL, Voice VLAN, and Ethernet Services. The main area displays a table of instances and an 'Instance Configuration' section.

Instance	Domain	Flow	Type	Direction	Residence Port	Oper State
1	Port		Mac-Loop	Facility	6	Down

Instance Configuration

Name	Enable/Disable
TRAFFIC_TEST_LOOP_INSTANC	Enable

Buttons: Save, Reset

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