



Configuring RFC 2544

This document describes the RFC 2544 feature and configuration steps to implement RFC 2544.

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Prerequisites for Configuring RFC 2544

- You must disable:
 - Link Layer Discovery Protocol (LLDP) transmit and receive on source port.
 - Loop protection on destination port or Spanning Tree Protocol (STP) on destination and source port.
- You must create:
 - Traffic test loop on destination port.
 - RFC 2544 profile with source port specified.
- There should be no traffic coming in or out of the ports.
- NID must have an IP address.

Restrictions for Configuring RFC 2544

- Ethernet Virtual Circuit (EVC) Maintenance End Points (MEP) is not supported.
- The RFC 2544 report can not be accessed on the Controller. You can save the report to a TFTP server.

Information About RFC 2544

RFC 2544 defines a number of tests that can be used to describe the performance characteristics of a network interconnect devices. These tests certify that a Service Level Agreement (SLA) between a customer and a service provider is met.

You can perform RFC 2544 benchmark tests on Carrier Ethernet switch platforms running ME 1200 software without the need for any external test equipment.

The RFC 2544 benchmarking can be run on a Metro Ethernet and offers a variety of diagnosis, such as:

- Throughput—Measures the maximum rate at which none of the offered frames are dropped on the device.
- Back-to-back—Measures the buffering capacity of a device.
- Frame loss—Measures the performance of a network device in an overloaded state.
- Latency—Measures the round-trip time taken by a test frame to travel through a network device or across the network and back to the test port.

In addition, the ME 1200 software includes a test suite tool that allows creating, saving, and executing test profiles and capturing and reporting results. The Local Node acts as a frame generator and checker.

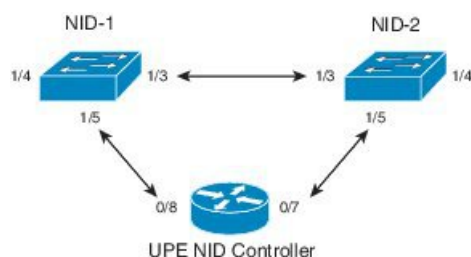


Note

For RFC 2544 to function properly, the Remote Node must support looping of particular frames.

The RFC 2544 benchmarking can be done either on the Port MEP or Virtual Local Area Network (VLAN) MEP. The following figure shows the topology used for provisioning RFC 2544 on two NIDs using a UPE NID Controller.

Figure 1: RFC 2544 Topology



Before executing RFC 2544 test, you must prepare a test profile. The RFC 2544 test profile contains all the parameters associated with one test, where *one test* may be a combination of one or more sub-tests (Throughput, Latency, and Frame Loss, Back-to-Back).

Common and sub-test specific parameters in a test profile are listed below:

• Common Parameters

- Profile Name— Name of each profile. Name can be up to 32 characters. Default name is New profile.
- Profile Description—A text description up to 128 characters associated with the profile. Default description is blank.

- MEG Level— Maintenance Entity Group (MEG) level on which the RFC 2544 test is run. Default MEG level is 7.
- Egress Port—Egress port of the switch on which the RFC 2544 test frames are generated and checked.
- Sequence Number Check—Checks generated frame sequence number. Default is Disabled.
- Dwell Time—Number of seconds to wait after each trial for the system to settle before reading statistics from the hardware. Default is 2 seconds.
- Type—Selects between two types of traffic: Port Down_MEP and VLAN-based Down_MEP. With VLAN-based Down_MEP, a configurable VLAN tag is inserted in the generated test frames.
- VLAN ID—Specifies the VLAN ID if VLAN-based Down_MEP is configured.
- PCP—Specifies the PCP value if VLAN-based Down_MEP is configured.
- DEI—Specifies the DEI value if VLAN-based Down_MEP is configured.
- DMAC—Specifies the DMAC of the generated frames for both Port-based and VLAN-based Down_MEP.
- Frame Size—Specifies the frame size each test must be repeated with, such as 64,128,256,512, 1024,1280,1518,2000, and 9600 bytes. Default frame size is all but 9600.
- Sub-Tests To Run—Specifies the sub-tests to be run in the profile (Throughput, Latency, Frame Loss, Back-to-Back). Default sub-tests to run is Throughput and Latency.

• Throughput Test Parameters

- Trial Duration—Duration of a trial run in seconds. Valid range is from 1 to 1800 seconds. Default trial duration is 60 seconds.
- Minimum and Maximum Rate—Specifies the maximum and minimum search rates.
- Rate Step—Specifies the granularity of search within the minimum and maximum rates define above. All three input parameters are specified in % of the egress port's actual link speed and must be in the range from 1 to 1000% with a granularity of 1%. Default rate step is Minimum: 800% of link speed, Maximum: 1000% of link speed, and Step size: 20% of link speed.
- Allowed Frame Loss—Specifies the allowable frame loss. Valid value is in range is from 0 to 100% with a granularity of 1%. Default allowable frame loss is 0.

• Latency Test Parameters

- Trial Duration—Duration of a trial run in seconds. Valid range is from 10 to 1800 seconds. Default trial duration is 120 seconds.
- Delay Measurement Interval—Specifies the number of seconds between each delay measurement. Valid range is from 1 to 60 seconds in steps of 1 second. Default delay measurement interval is 10 seconds.
- Allowed Frame Loss—Specifies the pass criterion of an allowable frame loss. Valid range is from 0 to 10% with a granularity of 0.1%. Default allowed frame loss is 0.

• Frame Loss Test Parameters

- Trial Duration—Duration of a trial run in seconds. Valid range is from 1 to 1800 seconds. Default trial duration is 60 seconds.
- Minimum and Maximum Rate—Specifies the maximum and minimum search rates.
- Rate Step—Specifies the granularity of search within the minimum and maximum rates define above. All three input parameters must be specified in % of the egress port's actual link speed and must be in the range from 1 to 1000% with a granularity of 1%. Default rate step is Minimum: 800%.

- **Back-to-Back Test Parameters**

- Trial duration—Specifies the duration of a burst. Valid range is from 100 to 10000 milliseconds. Default trial duration is 2000 milliseconds.
- Trial Count—Specifies the number of times the trial is executed. Valid range is from 1 to 100. Default trial count is 50. Up to 16 profiles can be created and saved in the switch flash memory.

RFC 2544 Test Report

On executing a RFC 2544 test profile, RFC 2544 test report is generated. The RFC 2544 test report is in clear text format and contains all the input parameters defined by the associated test profile and the measurement results. The RFC 2544 test report can be used to certify if an SLA is met.

The last 10 RFC 2544 test reports are stored in the Flash memory of the UPE NID controller.

How to Provision RFC 2544

Disabling LLDP Port on NID-1

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	ProvisionLldpPortType Example: Switch(config-controller)# ProvisionLldpPortType	Enters the ProvisionLldpPortType mode.

	Command or Action	Purpose
Step 4	<p>setLldpportconfig lldpPortConfiguration {lldp_receive_enable {disable enable} lldp_transmit_enable {disable enable} port_number port_number}</p> <p>Example: Switch(config-controller-ProvisionLldpPortType)# setLldpPortConfig lldpPortConfiguration port_number 3 Switch(config-controller-ProvisionLldpPortType)# setLldpPortConfig lldpPortConfiguration lldp_receive_enable disable Switch(config-controller-ProvisionLldpPortType)# setLldpPortConfig lldpPortConfiguration lldp_transmit_enable disable</p>	<p>Sets the Link Layer Discovery Protocol (LLDP) port configuration.</p> <ul style="list-style-type: none"> • lldp_receive_enable—Whether LLDP receive is enabled or disabled. • lldp_transmit_enable—Whether LLDP transmit is enabled or disabled. • port_number—The target interface number. The valid values are from 1 to 6.
Step 5	<p>setLldpPortConfig review</p> <p>Example: Switch(config-controller-ProvisionLldpPortType)# setLldpPortConfig review</p>	Displays the setLldpPortConfig configuration.
Step 6	<p>setLldpPortConfig commit</p> <p>Example: Switch(config-controller-ProvisionLldpPortType)# setLldpPortConfig commit</p>	Sends the setLldpConfig configuration to the ME 1200 NID.
Step 7	<p>exit</p> <p>Example: Switch(config-controller-ProvisionLldpPortType)# exit</p>	Exits to the config-controller mode.

Configuration Example

The example shows how to disable LLDP port on NID-1:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# ProvisionLldpPortType
Switch(config-controller-ProvisionLldpPortType)# setLldpPortConfig lldpPortConfiguration
port_number 3
Switch(config-controller-ProvisionLldpPortType)# setLldpPortConfig lldpPortConfiguration
lldp_receive_enable disable
Switch(config-controller-ProvisionLldpPortType)# setLldpPortConfig lldpPortConfiguration
lldp_transmit_enable disable
Switch(config-controller-ProvisionLldpPortType)# setLldpPortConfig review
Switch(config-controller-ProvisionLldpPortType)# setLldpPortConfig commit
Switch(config-controller-ProvisionLldpPortType)# exit
```

Creating Layer 2 VLANs on NID-1

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	ProvisionLldpPortType Example: Switch(config-controller)# ProvisionLldpPortType	Enters the ProvisionLldpPortType mode.
Step 4	createVlanCommand createVlanReq vlan_list vlan_list Example: Switch(config-controller-ProvisionPortVlanPortType)# createVlanCommand createVlanReq vlan_list 2-4095	Creates the VLAN list. The valid values are from 1 to 4095.
Step 5	createVlanCommand review Example: Switch(config-controller-ProvisionPortVlanPortType)# createVlanCommand review	Displays the createVlanCommand configuration.
Step 6	createVlanCommand commit Example: Switch(config-controller-ProvisionPortVlanPortType)# createVlanCommand commit	Sends the createVlanCommand configuration to the ME 1200 NID.
Step 7	exit Example: Switch(config-controller-ProvisionPortVlanPortType)# exit	Exits to the config-controller mode.

Configuration Example

The example shows how to create Layer 2 VLANs on NID-1:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# ProvisionPortVlanPortType
Switch(config-controller-ProvisionPortVlanPortType)# createVlanCommand createVlanReq vlan_list
2-4095
Switch(config-controller-ProvisionPortVlanPortType)# createVlanCommand review
```

```
Switch(config-controller-ProvisionPortVlanPortType)# createVlanCommand commit
Switch(config-controller-ProvisionPortVlanPortType)# exit
```

Assigning VLANs to Ports on NID-1

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1 NID_ID Example: Switch(config)# contoller nid 1/2	Enters the controller configuration mode.
Step 3	ProvisionPortVlanPortType Example: Switch(config-controller)# ProvisionPortVlanPortType	Enters the ProvisionPortVlanPortType mode.
Step 4	modifySwPort modifySWPortConfig mode access vlan vlan_id Example: Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort modifySWPortConfig mode trunk native vlan 3	Sets the mode to ACCESS, and assigns a VLAN.
Step 5	modifySwPort modifySWPortConfig mode trunk {allowed vlan {add {all vlan_list vlan_list } remove {all vlan_list vlan_list }} {native vlan vlan_list } Example: Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort modifySWPortConfig mode trunk allowed vlan add vlan_list 2-4095	Sets the mode to TRUNK. <ul style="list-style-type: none"> • allowed—Sets the allowed VLAN characteristics when interface is in trunk mode. • add—Adds either all VLANs or specified VLANs to the current list. • remove—Removes either all VLANs or specified VLANs from the current list. • vlan_d—Specifies the VLAN ID. The valid values are from 0 to 4095.
Step 6	modifySwPort review Example: Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort review	Displays the modifySwPort configuration.

	Command or Action	Purpose
Step 7	modifySwPort commit Example: Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort commit	Sends the modifySwPort configuration to the ME 1200 NID.
Step 8	exit Example: Switch(config-controller-ProvisionPortVlanPortType)# exit	Exits to the config-controller mode.

Configuration Example

The example shows how to assign VLANs to ports on NID-1:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# ProvisionPortVlanPortType
Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort modifySWPortConfig
interface 3
Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort modifySWPortConfig mode
trunk native vlan 3
Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort modifySWPortConfig mode
trunk allowed vlan add vlan_list 2-4095
Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort review
Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort commit
Switch(config-controller-ProvisionPortVlanPortType)# exit
```

Disabling Spanning-Tree Protocol on NID-1

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	ProvisionStpPortType Example: Switch (config-controller)# ProvisionStpPortType	Enters the ProvisionStpPortType mode.

	Command or Action	Purpose
<p>Step 4</p>	<pre>setStpGlobalConfig stpGlobalConfig {edge {bpdu-filter bpdu-guard} {enable disable} mode {mstp rstp stp} {enable disable} mst {forward-time Fwdtime instance instance {active {enable disable} priority Prio vlan WORD} max-age Maxage max-hops Maxhops name Name revision Revision } port-number Port number {enable disable} recovery Interval transmit hold-count }</pre> <p>Example: Switch(config-controller-ProvisionStpPortType) # setStpGlobalConfig stpGlobalConfig port-number 3 disable</p> <p>Note If the spanning-tree mode is STP or RSTP, and if the priority for the software needs to be changed, you can change using mst instance 0 and priority.</p>	<p>Configures the spanning-tree global configuration.</p> <ul style="list-style-type: none"> • stpGlobalConfig—Sets the spanning-tree global configuration. • edge—Configures the edge ports. <ul style="list-style-type: none"> ◦ bpdu-filter—Enables or disables the BPDU filter (stop BPDU tx/rx). ◦ bpdu-guard—Enables or disables the BPDU guard. • mode—Configures the STP protocol mode. <ul style="list-style-type: none"> ◦ mstp—Enables or disables the Multiple Spanning Tree (802.1s). ◦ rstp—Enables or disables the Rapid Spanning Tree (802.1w). ◦ stp—Enables or disables the Spanning Tree (802.1D). • mst—Configures the STP bridge instance. <ul style="list-style-type: none"> ◦ <i>Fwdtime</i>—Forward time. The range is from 4 to 30 seconds. ◦ <i>instance</i>—Instance. The range is from 0 to 7 where CIST=0, MST2=1 and so on. <ul style="list-style-type: none"> ◦ active—Enables or disables the instance. ◦ <i>Prio</i> —Specifies the priority. The range is from 0 to 61440 seconds. The range should be given in the sets of (0, 4096, 8192...) and so on. ◦ <i>WORD</i>—VLAN range. ◦ <i>Maxage</i>—Maximum age. The range is from 6 to 40 seconds. ◦ <i>Maxhops</i>—Maximum hops. The range is from 6 to 40 hop counts. ◦ <i>Name</i>—Name of the bridge. You can use 32 characters to define. ◦ <i>Revision</i>—Revision. The range is from 0-65535 revisions. • port-number—Configures the port number in the range from 1 to 6. <ul style="list-style-type: none"> ◦ <i>Port number</i>—Port number. The range is from 1 to 6.

	Command or Action	Purpose
		<ul style="list-style-type: none"> ◦ disable—Disables the port-number. ◦ enable—Enables the port-number. • recovery—Configures the error recovery timeout. <ul style="list-style-type: none"> ◦ <i>Interval</i>—Interval. The range is from 30-86400 seconds. • transmit—Configures the BPDUs to transmit. <ul style="list-style-type: none"> ◦ <i>hold-count</i>—Maximum number of transmit BPDUs per second. The range is from 1 to 10 seconds.
Step 5	setStpGlobalConfig review Example: Switch(config-controller-ProvisionStpPortType)# setStpGlobalConfig review	Displays the setStpGlobalConfig.
Step 6	setStpGlobalConfig commit Example: Switch(config-controller-ProvisionStpPortType)# setStpGlobalConfig commit	Sends the setStpGlobalConfig configuration to the ME 1200 NID.
Step 7	exit Example: Switch(config-controller-ProvisionStpPortType)# exit	Exits to the config-controller mode.

Configuration Example

The example shows how to disable Spanning-Tree Protocol on NID-1:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# ProvisionStpPortType
Switch(config-controller-ProvisionStpPortType)# setStpGlobalConfig stpGlobalConfig port-number
3 disable
Switch(config-controller-ProvisionStpPortType)# setStpGlobalConfig review
Switch(config-controller-ProvisionStpPortType)# setStpGlobalConfig commit
Switch(config-controller-ProvisionStpPortType)# exit
```

Disabling LLDP Port on NID-2

DETAILED STEPS

	Command or Action	Purpose
Step 1	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	ProvisionLldpPortType Example: Switch(config-controller)# ProvisionLldpPortType	Enters the ProvisionLldpPortType mode.
Step 4	setLldpportconfig lldpPortConfiguration {lldp_receive_enable {disable enable} lldp_transmit_enable {disable enable} port_number port_number} Example: Switch(config-controller-ProvisionLldpPortType)# setLldpPortConfig lldpPortConfiguration port_number 3 Switch(config-controller-ProvisionLldpPortType)# setLldpPortConfig lldpPortConfiguration lldp_receive_enable disable Switch(config-controller-ProvisionLldpPortType)# setLldpPortConfig lldpPortConfiguration lldp_transmit_enable disable	Sets the Link Layer Discovery Protocol (LLDP) port configuration. <ul style="list-style-type: none"> • lldp_receive_enable—Whether LLDP receive is enabled or disabled. • lldp_transmit_enable—Whether LLDP transmit is enabled or disabled. • port_number—The target interface number. The valid values are from 1 to 6.
Step 5	setLldpPortConfig review Example: Switch(config-controller-ProvisionLldpPortType)# setLldpPortConfig review	Displays the setLldpPortConfig configuration.
Step 6	setLldpPortConfig commit Example: Switch(config-controller-ProvisionLldpPortType)# setLldpPortConfig commit	Sends the setLldpConfig configuration to the ME 1200 NID.
Step 7	exit Example: Switch(config-controller-ProvisionLldpPortType)# exit	Exits to the config-controller mode.

Configuration Example

The example shows how to disable LLDP port on NID-2:

```
Switch(config)# controller nid 1/2
Switch(config-controller)# ProvisionLldpPortType
Switch(config-controller-ProvisionLldpPortType)# setLldpPortConfig lldpPortConfiguration
port_number 3
Switch(config-controller-ProvisionLldpPortType)# setLldpPortConfig lldpPortConfiguration
lldp_receive_enable disable
Switch(config-controller-ProvisionLldpPortType)# setLldpPortConfig lldpPortConfiguration
lldp_transmit_enable disable
Switch(config-controller-ProvisionLldpPortType)# setLldpPortConfig review
Switch(config-controller-ProvisionLldpPortType)# setLldpPortConfig commit
Switch(config-controller-ProvisionLldpPortType)# exit
```

Creating Layer 2 VLANs on NID-2

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	ProvisionPortVlanPortType Example: Switch(config-controller)# ProvisionPortVlanPortType	Enters the ProvisionPortVlanPortType mode.
Step 4	createVlanCommand createVlanReq vlan_list vlan_list Example: Switch(config-controller-ProvisionPortVlanPortType)# createVlanCommand createVlanReq vlan_list 2-4095	Creates the VLAN list. The valid values are from 1 to 4095.
Step 5	createVlanCommand review Example: Switch(config-controller-ProvisionPortVlanPortType)# createVlanCommand review	Displays the createVlanCommand configuration.
Step 6	createVlanCommand commit Example: Switch(config-controller-ProvisionPortVlanPortType)# createVlanCommand commit	Sends the createVlanCommand configuration to the ME 1200 NID.

	Command or Action	Purpose
Step 7	<p>exit</p> <p>Example: Switch(config-controller-ProvisionPortVlanPortType)# exit</p>	Exits to the config-controller mode.

Configuration Example

The example shows how to create Layer 2 VLANs on NID-2:

```
Switch(config)# controller nid 1/2
Switch(config-controller)# ProvisionPortVlanPortType
Switch(config-controller-ProvisionPortVlanPortType)# createVlanCommand createVlanReq vlan_list
2-4095
Switch(config-controller-ProvisionPortVlanPortType)# createVlanCommand review
Switch(config-controller-ProvisionPortVlanPortType)# createVlanCommand commit
Switch(config-controller-ProvisionPortVlanPortType)# exit
```

Assigning VLANs to Ports on NID-2

DETAILED STEPS

	Command or Action	Purpose
Step 1	<p>configure terminal</p> <p>Example: Switch# configure terminal</p>	Enters global configuration mode.
Step 2	<p>controller nid 1/NID_ID</p> <p>Example: Switch(config)# controller nid 1/2</p>	Enters the controller configuration mode.
Step 3	<p>ProvisionPortVlanPortType</p> <p>Example: Switch(config-controller)# ProvisionPortVlanPortType</p>	Enters the ProvisionPortVlanPortType mode.
Step 4	<p>modifySwPort modifySWPortConfig interface interface_id</p> <p>Example: Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort modifySWPortConfig interaface 3</p>	Modifies the switchport configuration on the defined interface.
Step 5	<p>modifySwPort modifySWPortConfig mode access vlan vlan_id</p>	Sets the mode to ACCESS, and assigns a VLAN.

	Command or Action	Purpose
	<p>Example: Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort modifySWPortConfig mode trunk native vlan 3</p>	
Step 6	<p>modifySwPort modifySWPortConfig mode trunk {allowed vlan {add {all vlan_list vlan_list} remove {all vlan_list vlan_list}} {native vlan vlan_list}}</p> <p>Example: Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort modifySWPortConfig mode trunk allowed vlan add vlan_list 2-4095</p>	<p>Sets the mode to TRUNK.</p> <ul style="list-style-type: none"> • allowed—Sets the allowed VLAN characteristics when interface is in trunk mode. • add—Adds either all VLANs or specified VLANs to the current list. • remove—Removes either all VLANs or specified VLANs from the current list. • vlan_d—Specifies the VLAN ID. The valid values are from 0 to 4095.
Step 7	<p>modifySwPort review</p> <p>Example: Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort review</p>	<p>Displays the modifySwPort configuration.</p>
Step 8	<p>modifySwPort commit</p> <p>Example: Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort commit</p>	<p>Sends the modifySwPort configuration to the ME 1200 NID.</p>
Step 9	<p>exit</p> <p>Example: Switch(config-controller-ProvisionPortVlanPortType)# exit</p>	<p>Exits to the config-controller mode.</p>

Configuration Example

The example shows how to assign VLANs to ports on NID-2:

```
Switch(config)# controller nid 1/2
Switch(config-controller)# ProvisionPortVlanPortType
Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort modifySWPortConfig
interaface 3
Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort modifySWPortConfig mode
trunk native vlan 3
Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort modifySWPortConfig mode
trunk allowed vlan add vlan_list 2-4095
Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort review
Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort commit
Switch(config-controller-ProvisionPortVlanPortType)# exit
```

Disabling Spanning-Tree Protocol on NID-2

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	ProvisionStpPortType Example: Switch (config-controller)# ProvisionStpPortType	Enters the ProvisionStpPortType mode.
Step 4	setStpGlobalConfig stpGlobalConfig {edge {bpdu-filter bpdu-guard} {enable disable} mode {mstp rstp stp} {enable disable} mst {forward-time Fwdtime instance instance {active {enable disable} priority Prio vlan WORD} max-age Maxage max-hops Maxhops name Name revision Revision } port-number Port number {enable disable} recovery Interval transmit hold-count } Example: Switch(config-controller-ProvisionStpPortType)# setStpGlobalConfig stpGlobalConfig port-number 3 disable Note If the spanning-tree mode is STP or RSTP, and if the priority for the software needs to be changed, you can change using mst instance 0 and priority.	Configures the spanning-tree global configuration. <ul style="list-style-type: none"> • stpGlobalConfig—Sets the spanning-tree global configuration. • edge—Configures the edge ports. <ul style="list-style-type: none"> ◦ bpdu-filter—Enables or disables the BPDU filter (stop BPDU tx/rx). ◦ bpdu-guard—Enables or disables the BPDU guard. • mode—Configures the STP protocol mode. <ul style="list-style-type: none"> ◦ mstp—Enables or disables the Multiple Spanning Tree (802.1s). ◦ rstp—Enables or disables the Rapid Spanning Tree (802.1w) ◦ stp—Enables or disables the Spanning Tree (802.1D). • mst—Configures the STP bridge instance. <ul style="list-style-type: none"> ◦ Fwdtime—Forward time. The range is from 4 to 30 seconds. ◦ instance—Instance. The range is from 0 to 7 where CIST=0, MST2=1 and so on. <ul style="list-style-type: none"> ◦ active—Enables or disables the instance.

	Command or Action	Purpose
		<ul style="list-style-type: none"> ◦ <i>Prio</i> —Specifies the priority. The range is from 0 to 61440 seconds. The range should be given in the sets of (0, 4096, 8192...) and so on. ◦ <i>WORD</i>—VLAN range. ◦ <i>Maxage</i>—Maximum age. The range is from 6 to 40 seconds. ◦ <i>Maxhops</i>—Maximum hops. The range is from 6 to 40 hop counts. ◦ <i>Name</i>—Name of the bridge. You can use 32 characters to define. ◦ <i>Revision</i>—Revision. The range is from 0-65535 revisions. • port-number—Configures the port number in the range from 1 to 6. <ul style="list-style-type: none"> ◦ <i>Port number</i>—Port number. The range is from 1 to 6. ◦ disable—Disables the port-number. ◦ enable—Enables the port-number. • recovery—Configures the error recovery timeout. <ul style="list-style-type: none"> ◦ <i>Interval</i>—Interval. The range is from 30-86400 seconds. • transmit—Configures the BPDUs to transmit. <ul style="list-style-type: none"> ◦ <i>hold-count</i>—Maximum number of transmit BPDUs per second. The range is from 1 to 10 seconds.
Step 5	setStpGlobalConfig review Example: Switch(config-controller-ProvisionStpPortType)# setStpGlobalConfig review	Displays the setStpGlobalConfig.
Step 6	setStpGlobalConfig commit Example: Switch(config-controller-ProvisionStpPortType)# setStpGlobalConfig commit	Sends the setStpGlobalConfig configuration to the ME 1200 NID.

	Command or Action	Purpose
Step 7	exit Example: Switch(config-controller-ProvisionStpPortType) # exit	Exits to the config-controller mode.

Configuration Example

The example shows how to disable Spanning-Tree Protocol on NID-2:

```
Switch(config)# controller nid 1/2
Switch(config-controller)# ProvisionStpPortType
Switch(config-controller-ProvisionStpPortType)# setStpGlobalConfig stpGlobalConfig port-number
3 disable
Switch(config-controller-ProvisionStpPortType)# setStpGlobalConfig review
Switch(config-controller-ProvisionStpPortType)# setStpGlobalConfig commit
Switch(config-controller-ProvisionStpPortType)# exit
```

Creating Port MEP Profile on NID-1

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	RFC2544PortType Example: Switch(config-controller)# RFC2544PortType	Enters the RFC2544PortType mode.
Step 4	setRfc2544Profile Rfc2544Profile {profileName description megLevel egressPort seqNoCheck {enable disable} dwellTime mepType {portDownMep vlanDownMep} vlanId pcp dei dMac} Example: Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile profileName profile1 Switch(config-controller-RFC2544PortType)#	Creates Port MEP profile. <ul style="list-style-type: none"> • profileName—Specifies RFC 2544 profile name. • description—Adds a description to profile. Note We recommend that you add a description for the profile. • megLevel—Sets profile MEG level used in TST PDUs. • egressPort—Sets the egress interface on which PDUs are transmitted.

	Command or Action	Purpose
	<pre>setRfc2544Profile Rfc2544Profile description profile1 Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile egressPort 3 Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile megLevel 5 Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile mepType portDownMep Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile seqNoCheck disable</pre>	<ul style="list-style-type: none"> • seqNoCheck—Enables sequence number checking of looped TST PDUs. <ul style="list-style-type: none"> ◦ enable—Enables sequence number. ◦ disable—Disables sequence number. • dwelTime—Controls the number of seconds that the execution pauses after each trial, before reading counters and status from hardware. • mepType—Specifies MEP type port. MEP or VLAN MEP. <ul style="list-style-type: none"> ◦ portDownMep—Creates a port down MEP. ◦ vlanDownMep—Creates a VLAN down MEP. All PDUs are then transmitted with a VLAN tag. • vlanId—Specifies VLAN ID incase of VLAN down MEP. • pcp—Specifies PCP value used in the VLAN tag incase of VLAN MEP. • dei—Specifies DEI value used in the VLAN tag incase vlan mep. • dMac—Specifies destination MAC address used in generation of the Y.1731 TST and 1DM frames.
Step 5	<p>setRfc2544Profile review</p> <p>Example:</p> <pre>Switch((config-controller)RFC2544PortType)# setRfc2544Profile review</pre>	Displays the setRfc2544Profile.
Step 6	<p>setRfc2544Profile commit</p> <p>Example:</p> <pre>Switch((config-controller)RFC2544PortType)# setRfc2544Profile commit</pre>	Sends the setRfc2544Profile configuration to the Cisco ME 1200 NID.
Step 7	<p>exit</p> <p>Example:</p> <pre>Switch((config-controller)RFC2544PortType)# exit</pre>	Exits to the config-controller mode.

Configuration Example

The example shows how to create Port MEP profile on NID-1:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# RFC2544PortType
Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile profileName
profile1
Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile description
profile1
Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile egressPort 3
Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile megLevel 5
Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile mepType
portDownMep
Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile seqNoCheck
disable
Switch(config-controller-RFC2544PortType)# setRfc2544Profile review
Switch(config-controller-RFC2544PortType)# setrfc2544profile commit
Switch(config-controller-RFC2544PortType)# exit
```

Creating Traffic Test Loop on Destination Port on NID-2

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	RFC2544PortType Example: Switch(config-controller)# RFC2544PortType	Enters the RFC2544PortType configuration mode.
Step 4	setTrafficTestLoop trafficTestLoopConfig {instNum adminState {enable disable} custVID name type {macLoop oamLoop} interface direction {facility terminal} domain {evc port vlan} flowld level} Example: Switch(config-controller-RFC2544PortType)# setTrafficTestLoop trafficTestLoopConfig interface 3 Switch(config-controller-RFC2544PortType)# setTrafficTestLoop trafficTestLoopConfig type macLoop Switch(config-controller-RFC2544PortType)# setTrafficTestLoop trafficTestLoopConfig direction facility Switch(config-controller-RFC2544PortType)#	Creates traffic test loop on destination port on NID-2. <ul style="list-style-type: none"> • instNum—Specifies the traffic-test-loop instance number. • adminState—Specifies the administrative state. <ul style="list-style-type: none"> ◦ enable—Creates a loop if all required resources are available and operational state is up. ◦ disable—Deletes the loop and operational state is down. • custVID—Only relevant for OAM-loop in EVC domain. Loops C-tagged customer frames with this specified VID in the EVC. • name—Specifies the traffic-test-loop name. • type—Specifies the type of the traffic-test-loop. Currently only MAC loop is supported.

	Command or Action	Purpose
	<pre> setTrafficTestLoop trafficTestLoopConfig domain port Switch(config-controller-RFC2544PortType)# setTrafficTestLoop trafficTestLoopConfig adminState enable Switch(config-controller-RFC2544PortType)# setTrafficTestLoop trafficTestLoopConfig instNum 1 </pre>	<ul style="list-style-type: none"> ◦ macLoop—All frames in the flow are looped with MAC swap. ◦ oamLoop—Y.1731 OAM aware and is looping the following: <ul style="list-style-type: none"> ◦ Loopback Messages (LBM) and Loopback Replies (LBR) ◦ Delay Measurement Message (DMM) and Delay Measurement Reply (DMR) • interface—Specifies the residence port of the traffic-test-loop. • direction—Specifies the direction of the traffic-test-loop. <ul style="list-style-type: none"> ◦ facility—Specifies that this traffic-test-loop is pointing to the port. Looping is done from ingress to egress. ◦ terminal—Specifies that this traffic-test-loop is pointing to the forwarding plane. Looping is done from egress to ingress. <p>Note The terminal option is not supported.</p> • domain—The domain of the traffic-test-loop. <ul style="list-style-type: none"> ◦ evc—This traffic-test-loop is in the EVC domain. ◦ port—This traffic-test-loop is in the Port domain. ◦ vlan—This traffic-test-loop is in the VLAN domain. <p>Note Only port domain is supported.</p> • flowId—Specifies the EVC domain instance ID or VID in VLAN domain. • level—Specifies the Y.1731 OAM level of the traffic-test-loop. This is relevant only for OAM looping type traffic-test-loop.
Step 5	<p>setTrafficTestLoop review</p> <p>Example:</p> <pre> Switch((config-controller)RFC2544PortType)# setTrafficTestLoop review </pre>	Displays the setTrafficTestLoop configuration.
Step 6	<p>setTrafficTestLoop commit</p> <p>Example:</p> <pre> Switch((config-controller)RFC2544PortType)# setTrafficTestLoop commit </pre>	Sends the setTrafficTestLoop configuration to the ME 1200 NID.

	Command or Action	Purpose
Step 7	exit Example: Switch((config-controller)RFC2544PortType)# exit	Exits to the config-controller mode.

Configuration Example

The example shows how to create traffic test loop on destination port on NID-2:

```
Switch(config)# controller nid 1/2
Switch(config-controller)# RFC2544PortType
Switch(config-controller-RFC2544PortType)# setTrafficTestLoop trafficTestLoopConfig interface
3
Switch(config-controller-RFC2544PortType)# setTrafficTestLoop trafficTestLoopConfig type
macLoop
Switch(config-controller-RFC2544PortType)# setTrafficTestLoop trafficTestLoopConfig direction
facility
Switch(config-controller-RFC2544PortType)# setTrafficTestLoop trafficTestLoopConfig domain
port
Switch(config-controller-RFC2544PortType)# setTrafficTestLoop trafficTestLoopConfig adminState
enable
Switch(config-controller-RFC2544PortType)# setTrafficTestLoop trafficTestLoopConfig instNum
1
Switch(config-controller-RFC2544PortType)# setTrafficTestLoop review
Switch(config-controller-RFC2544PortType)# setTrafficTestLoop commit
Switch(config-controller-RFC2544PortType)# exit
```

Disabling Loop Protection on Destination Port on NID-2

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid <i>I/NID_ID</i> Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	RFC2544PortType Example: Switch(config-controller)# RFC2544PortType	Enters the RFC2544PortType configuration mode.
Step 4	deleteTrafficTestLoop deleteLoopConfig {trafficLoop <i>instNum loopPotect interface}</i>	Disables loop protection on destination port on NID-2. <ul style="list-style-type: none"> • deleteLoopConfig—Deletes traffic test loop configuration.

	Command or Action	Purpose
	<p>Example: Switch((config-controller)RFC2544PortType)# deleteTrafficTestLoop deleteLoopConfig loopPotect interface 3</p>	<ul style="list-style-type: none"> • trafficLoop—Deletes traffic test loop configuration. <ul style="list-style-type: none"> ◦ <i>instNum</i>—Specifies the traffic-test-loop instance number. • loopPotect—Deletes loop protection at port level. <ul style="list-style-type: none"> ◦ <i>interface</i>—Specifies the residence port of the traffic-test-loop.
Step 5	<p>deleteTrafficTestLoop review</p> <p>Example: Switch((config-controller)RFC2544PortType)# deleteTrafficTestLoop review</p>	Displays the deleteTrafficTestLoop configuration.
Step 6	<p>deleteTrafficTestLoop commit</p> <p>Example: Switch((config-controller)RFC2544PortType)# deleteTrafficTestLoop commit</p>	Sends the deleteTrafficTestLoop configuration to the ME 1200 NID.
Step 7	<p>exit</p> <p>Example: Switch((config-controller)RFC2544PortType)# exit</p>	Exits to the config-controller mode.

Configuration Example

The example shows how to disable loop protection on destination port on NID-2:

```
Switch(config)# controller nid 1/2
Switch(config-controller)# RFC2544PortType
Switch(config-controller-RFC2544PortType)# deleteTrafficTestLoop deleteLoopConfig loopPotect
interface 3
Switch(config-controller-RFC2544PortType)# deleteTrafficTestLoop review
Switch(config-controller-RFC2544PortType)# deleteTrafficTestLoop commit
Switch(config-controller-RFC2544PortType)# exit
```

Setting RFC 2544 Reporting Parameters on NID-1

DETAILED STEPS

	Command or Action	Purpose
Step 1	<p>configure terminal</p> <p>Example: Switch# configure terminal</p>	Enters global configuration mode.

	Command or Action	Purpose
Step 2	controller nid <i>1/NID_ID</i> Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	RFC2544PortType Example: Switch(config-controller)# RFC2544PortType	Enters the RFC2544PortType mode.
Step 4	setReportParams rfc2544Reports reportAction { delete <i>reportName</i> save { <i>reportName</i> <i>ftpPath</i> } start { <i>reportName</i> <i>profileName</i> <i>description</i> } stop <i>reportName</i> rename { <i>oldName</i> <i>newName</i> }} Example: Switch(config-controller-RFC2544PortType)# setReportParams rfc2544Reports reportAction start profileName profile1 Switch(config-controller-RFC2544PortType)# setReportParams rfc2544Reports reportAction start reportName profile1 Switch(config-controller-RFC2544PortType)# setReportParams rfc2544Reports reportAction start description profile1	Sets RFC 2544 reporting parameters. <ul style="list-style-type: none"> • reportAction—Specifies action to be performed on the report. <ul style="list-style-type: none"> ◦ delete—Deletes the existing report. <ul style="list-style-type: none"> ◦ <i>reportName</i>—Specifies name of the report. ◦ save—Saves the existing report. <ul style="list-style-type: none"> ◦ <i>reportName</i>—Specifies the name of existing report. ◦ <i>ftpPath</i>—Specifies TFTP server URL tftp://server[:port]/path-to-file. ◦ start—Starts profile execution <ul style="list-style-type: none"> ◦ <i>reportName</i>—Specifies unique name of the resulting report. ◦ <i>profileName</i>—Specifies name of the profile to execute. ◦ <i>description</i>—(Optional) Provides a description of the report. <ul style="list-style-type: none"> Note We recommend that you add a description for the report. ◦ stop—Stops the report. <ul style="list-style-type: none"> ◦ <i>reportName</i>—Specifies name of the report to be stopped. ◦ rename—Renames the existing report. <ul style="list-style-type: none"> ◦ <i>oldName</i>—Specifies name of the old profile. ◦ <i>newName</i>—Specifies name of the new profile.

	Command or Action	Purpose
Step 5	setReportParams review Example: Switch(config-controller-RFC2544PortType) # setReportParams review	Displays the setReportParams configuration.
Step 6	setReportParams commit Example: Switch(config-controller-RFC2544PortType) # setReportParams commit	Sends the setReportParams configuration to the ME 1200 NID.
Step 7	exit Example: Switch(config-controller-RFC2544PortType) # exit	Exits to the config-controller mode.

Configuration Example

The example shows how to set the RFC 2544 reporting parameters on NID-1:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# RFC2544PortType
Switch(config-controller-RFC2544PortType)# setReportParams rfc2544Reports reportAction start
profileName profile1
Switch(config-controller-RFC2544PortType)# setReportParams rfc2544Reports reportAction start
reportName profile1
Switch(config-controller-RFC2544PortType)# setReportParams rfc2544Reports reportAction start
description profile1
Switch(config-controller-RFC2544PortType)# setReportParams review
Switch(config-controller-RFC2544PortType)# setReportParams commit
Switch(config-controller-RFC2544PortType)# exit
```

Displaying RFC 2544 Profile and Report on NID-1

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.

	Command or Action	Purpose
Step 3	RFC2544PortType Example: Switch(config-controller)# RFC2544PortType	Enters the RFC2544PortType mode.
Step 4	showRfc2544 showRequest show {profiles report} Example: Switch(config-controller-RFC2544PortType)# showRfc2544 showRequest show profiles	Displays RFC 2544 profile. <ul style="list-style-type: none"> • show—Displays profile or report. <ul style="list-style-type: none"> ◦ profiles—Displays profile information. ◦ report—Displays report information.
Step 5	showRfc2544 review Example: Switch(config-controller-RFC2544PortType)# showRfc2544 review	Displays the showRfc2544 configuration.
Step 6	showRfc2544 commit Example: Switch(config-controller-RFC2544PortType)# showRfc2544 commit	Sends the setRfc2544Profile configuration to the ME 1200 NID.
Step 7	showRfc2544 showRequest show {profiles report} Example: Switch(config-controller-RFC2544PortType)# showRfc2544 showRequest show report	Displays RFC 2544 profile. <ul style="list-style-type: none"> • show—Displays profile or report. <ul style="list-style-type: none"> ◦ profiles—Displays profile information. ◦ report—Displays report information.
Step 8	showRfc2544 review Example: Switch(config-controller-RFC2544PortType)# showRfc2544 review	Displays the showRfc2544 configuration.
Step 9	showRfc2544 commit Example: Switch(config-controller-RFC2544PortType)# showRfc2544 commit	Sends the setRfc2544Profile configuration to the ME 1200 NID.
Step 10	exit Example: Switch(config-controller-RFC2544PortType)# exit	Exits to the config-controller mode.

Configuration Example

The example shows how to display RFC 2544 profile and report on NID-1:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# RFC2544PortType
Switch(config-controller-RFC2544PortType)# showRfc2544 showRequest show profiles
Switch(config-controller-RFC2544PortType)# showRfc2544 review
Switch(config-controller-RFC2544PortType)# showRfc2544 commit
```

```
ShowRfc2544_Output.showResponse.t = 1
ShowRfc2544_Output.showResponse.u.profile[0].profileName = 'profile1'
ShowRfc2544_Output.showResponse.u.profile[0].description = 'profile1'
```

```
ShowRfc2544 Commit Success!!!
```

```
Switch(config-controller)# RFC2544PortType
Switch(config-controller-RFC2544PortType)# showRfc2544 showRequest show report
Switch(config-controller-RFC2544PortType)# showRfc2544 review
Switch(config-controller-RFC2544PortType)# showRfc2544 commit
```

```
ShowRfc2544_Output.showResponse.t = 2
ShowRfc2544_Output.showResponse.u.report[0].reportName = 'Report1'
ShowRfc2544_Output.showResponse.u.report[0].created =
'1970-01-04T07:29:25+00:00'
ShowRfc2544_Output.showResponse.u.report[0].status = 'Succeeded'
ShowRfc2544_Output.showResponse.u.report[1].reportName = 'Rep15'
ShowRfc2544_Output.showResponse.u.report[1].created =
'1970-01-02T01:57:34+00:00'
ShowRfc2544_Output.showResponse.u.report[1].status = 'Failed'
ShowRfc2544_Output.showResponse.u.report[2].reportName = 'Rep16'
ShowRfc2544_Output.showResponse.u.report[2].created =
'1970-01-02T02:08:12+00:00'
ShowRfc2544_Output.showResponse.u.report[2].status = 'Succeeded'
ShowRfc2544_Output.showResponse.u.report[3].reportName = 'profile1'
ShowRfc2544_Output.showResponse.u.report[3].created =
'1970-01-02T03:48:16+00:00'
ShowRfc2544_Output.showResponse.u.report[3].status = 'Failed'
```

```
ShowRfc2544 Commit Success!!!
```

```
Switch(config-controller-RFC2544PortType)# exit
```

Creating VLAN Profile on NID-1

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.

	Command or Action	Purpose
Step 2	<p>controller nid <i>1/NID_ID</i></p> <p>Example: Switch(config)# controller nid 1/2</p>	Enters the controller configuration mode.
Step 3	<p>RFC2544PortType</p> <p>Example: Switch(config-controller)# RFC2544PortType</p>	Enters the RFC2544PortType mode.
Step 4	<p>setRfc2544Profile Rfc2544Profile {profileName description megLevel egressPort seqNoCheck {enable disable} dwellTime mepType {portDownMep vlanDownMep} vlanId pcp dei dMac}</p> <p>Example: Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile profileName vlan-profile Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile egressPort 3 Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile mepType vlanDownMep Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile vlanId 999 Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile megLevel 4 Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile description vlanprofile</p>	<p>Creates RFC profile.</p> <ul style="list-style-type: none"> • profileName—Specifies RFC 2544 profile name. • description—Adds a description to profile. <ul style="list-style-type: none"> Note We recommend that you add a description for the profile. • megLevel—Sets profile MEG level used in TST PDUs. • egressPort—Sets the egress interface on which PDUs are transmitted. • seqNoCheck—Enables sequence number checking of looped TST PDUs. <ul style="list-style-type: none"> ◦ enable—Enables sequence number. ◦ disable—Disables sequence number. • dwellTime—Controls the number of seconds that the execution pauses after each trial, before reading counters and status from hardware. • mepType—Specifies MEP type port. MEP or VLAN MEP. <ul style="list-style-type: none"> ◦ portDownMep—Creates a port down MEP. ◦ vlanDownMep—Creates a VLAN down MEP. All PDUs are then transmitted with a VLAN tag. • vlanId—Specifies VLAN ID incase of VLAN down MEP. • pcp—Specifies PCP value used in the VLAN tag incase of VLAN MEP. • dei—Specifies DEI value used in the VLAN tag incase vlan mep. • dMac—Specifies destination MAC address used in generation of the Y.1731 TST and 1DM frames.

	Command or Action	Purpose
Step 5	setRfc2544Profile review Example: Switch(config-controllerRFC2544PortType)# setRfc2544Profile review	Displays the setRfc2544Profile.
Step 6	setRfc2544Profile commit Example: Switch(config-controllerRFC2544PortType)# setRfc2544Profile commit	Sends the setRfc2544Profile configuration to the ME 1200 NID.
Step 7	exit Example: Switch(config-controllerRFC2544PortType)# exit	Exits to the config-controller mode.

Configuration Example

The example shows how to create VLAN profile on NID-1:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# RFC2544PortType
Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile profileName
vlan-profile
Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile egressPort 3
Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile mepType
vlanDownMep
Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile vlanId 999
Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile megLevel 4
Switch(config-controller-RFC2544PortType)# setRfc2544Profile Rfc2544Profile description
vlanprofile
Switch(config-controller-RFC2544PortType)# setRfc2544Profile review
Switch(config-controller-RFC2544PortType)# setrfc2544profile commit
Switch(config-controller-RFC2544PortType)# exit
```

Getting RFC 2544 Profile for VLAN on NID-1

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.

	Command or Action	Purpose
Step 3	RFC2544PortType Example: Switch(config-controller)# RFC2544PortType	Enters the RFC2544PortType mode.
Step 4	getRfc2544Profile rfc2544Request profileName profileName Example: Switch(config-controller-RFC2544PortType)# getRfc2544Profile rfc2544Request profileName vlan-profile	Gets the RFC 2544 profile. <ul style="list-style-type: none"> • rfc2544Request—Specifies RFC2544 request parameter. • profileName—Specifies name of the profile.
Step 5	getRfc2544Profile review Example: Switch(config-controller-RFC2544PortType)# getRfc2544Profile review	Displays the getRfc2544Profile configuration.
Step 6	getRfc2544Profile commit Example: Switch(config-controller-RFC2544PortType)# getRfc2544Profile commit	Sends the getRfc2544Profile configuration to the ME 1200 NID.
Step 7	exit Example: Switch(config-controller-RFC2544PortType)# exit	Exits to the config-controller mode.

Configuration Example

The example shows how to get RFC 2544 profile for VLAN on NID-1:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# RFC2544PortType
Switch(config-controller-RFC2544PortType)# getRfc2544Profile rfc2544Request profileName
vlan-profile
Switch(config-controller-RFC2544PortType)# getRfc2544Profile review
Switch(config-controller-RFC2544PortType)# getRfc2544Profile commit
```

```
GetRfc2544Profile_Output.Rfc2544Profile.profileName = 'vlan-profile'
GetRfc2544Profile_Output.Rfc2544Profile.description = 'vlanprofile'
GetRfc2544Profile_Output.Rfc2544Profile.megLevel = 4
GetRfc2544Profile_Output.Rfc2544Profile.egressPort = 3
GetRfc2544Profile_Output.Rfc2544Profile.seqNoCheck.t = 2
GetRfc2544Profile_Output.Rfc2544Profile.seqNoCheck.u.disable = ''
GetRfc2544Profile_Output.Rfc2544Profile.dwellTime = 2
GetRfc2544Profile_Output.Rfc2544Profile.mepType.t = 2
GetRfc2544Profile_Output.Rfc2544Profile.mepType.u.vlanDownMep = ''
GetRfc2544Profile_Output.Rfc2544Profile.vlanId = 999
GetRfc2544Profile_Output.Rfc2544Profile.pcp = 0
GetRfc2544Profile_Output.Rfc2544Profile.dei = 0
GetRfc2544Profile_Output.Rfc2544Profile.dMac = '00-00-00-00-00-01'
```

```
GetRfc2544Profile Commit Success!!!
```

```
Switch(config-controller-RFC2544PortType)# exit
```

Setting RFC 2544 Reporting Parameters for VLAN on NID-1

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	RFC2544PortType Example: Switch(config-controller)# RFC2544PortType	Enters the RFC2544PortType mode.
Step 4	setReportParams rfc2544Reports reportAction {delete reportName save {reportName tftpPath} start {reportName profileName description} stop reportName rename {oldName newName}} Example: Switch(config-controller-RFC2544PortType)# setReportParams rfc2544Reports reportAction start profileName vlan-profile Switch(config-controller-RFC2544PortType)# setReportParams rfc2544Reports reportAction start reportName vlan-profile Switch(config-controller-RFC2544PortType)# setReportParams rfc2544Reports reportAction start description vlan-profile	Sets RFC 2544 reporting parameters. <ul style="list-style-type: none"> • reportAction—Specifies action to be performed on the report. <ul style="list-style-type: none"> ◦ delete—Deletes the existing report. <ul style="list-style-type: none"> ◦ <i>reportName</i>—Specifies name of the report. ◦ save—Saves the existing report. <ul style="list-style-type: none"> ◦ <i>reportName</i>—Specifies the name of existing report. ◦ <i>tftpPath</i>—Specifies TFTP server URL tftp://server[:port]/path-to-file. ◦ start—Starts profile execution <ul style="list-style-type: none"> ◦ <i>reportName</i>—Specifies unique name of the resulting report. ◦ <i>profileName</i>—Specifies name of the profile to execute. ◦ <i>description</i>—(Optional) Provides a description of the report. <p>Note We recommend that you add a description for the report.</p>

	Command or Action	Purpose
		<ul style="list-style-type: none"> ◦ stop—Stops the report. <ul style="list-style-type: none"> ◦ <i>reportName</i>—Specifies name of the report to be stopped. ◦ rename—Renames the existing report. <ul style="list-style-type: none"> ◦ <i>oldName</i>—Specifies name of the old profile. ◦ <i>newName</i>—Specifies name of the new profile.
Step 5	setReportParams review Example: Switch(config-controller-RFC2544PortType) # setReportParams review	Displays the setReportParams configuration.
Step 6	setReportParams commit Example: Switch(config-controller-RFC2544PortType) # setReportParams commit	Sends the setReportParams configuration to the ME 1200 NID.
Step 7	exit Example: Switch(config-controller-RFC2544PortType) # exit	Exits to the config-controller mode.

Configuration Example

The example shows how to set the RFC 2544 reporting parameters for VLAN on NID-1:

```
Switch(config)# controller nid 1/1
Switch(config-controller) # RFC2544PortType
Switch(config-controller-RFC2544PortType) # setReportParams rfc2544Reports reportAction start
  profileName vlan-profile
Switch(config-controller-RFC2544PortType) # setReportParams rfc2544Reports reportAction start
  reportName vlan-profile
Switch(config-controller-RFC2544PortType) # setReportParams rfc2544Reports reportAction start
  description vlan-profile
Switch(config-controller-RFC2544PortType) # setReportParams review
Switch(config-controller-RFC2544PortType) # setReportParams commit
Switch(config-controller-RFC2544PortType) # exit
```

Displaying RFC 2544 Report for VLAN on NID-1

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	RFC2544PortType Example: Switch(config-controller)# RFC2544PortType	Enters the RFC2544PortType mode.
Step 4	showRfc2544 showRequest show {profiles report} Example: Switch(config-controller-RFC2544PortType)# showRfc2544 showRequest show profiles	Displays RFC 2544 profile. <ul style="list-style-type: none"> • show—Displays profile or report. <ul style="list-style-type: none"> ◦ profiles—Displays profile information. ◦ report—Displays report information.
Step 5	showRfc2544 review Example: Switch(config-controller-RFC2544PortType)# showRfc2544 review	Displays the showRfc2544 configuration.
Step 6	showRfc2544 commit Example: Switch(config-controller-RFC2544PortType)# showRfc2544 commit	Sends the setRfc2544Profile configuration to the ME 1200 NID.
Step 7	showRfc2544 showRequest show {profiles report} Example: Switch(config-controller-RFC2544PortType)# showRfc2544 showRequest show report	Displays RFC 2544 profile. <ul style="list-style-type: none"> • show—Displays profile or report. <ul style="list-style-type: none"> ◦ profiles—Displays profile information. ◦ report—Displays report information.
Step 8	showRfc2544 review Example: Switch(config-controller-RFC2544PortType)# showRfc2544 review	Displays the showRfc2544 configuration.

	Command or Action	Purpose
Step 9	showRfc2544 commit Example: Switch(config-controller-RFC2544PortType)# showRfc2544 commit	Sends the setRfc2544Profile configuration to the ME 1200 NID.
Step 10	exit Example: Switch(config-controller-RFC2544PortType)# exit	Exits to the config-controller mode.

Configuration Example

The example shows how to display RFC 2544 report for VLAN on NID-1:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# RFC2544PortType
Switch(config-controller-RFC2544PortType)# showRfc2544 showRequest show report
Switch(config-controller-RFC2544PortType)# showRfc2544 review
Switch(config-controller-RFC2544PortType)# showRfc2544 commit
```

```
ShowRfc2544_Output.showResponse.t = 2
ShowRfc2544_Output.showResponse.u.report[0].reportName = 'Report1'
ShowRfc2544_Output.showResponse.u.report[0].created =
'1970-01-04T07:29:25+00:00'
ShowRfc2544_Output.showResponse.u.report[0].status = 'Succeeded'
ShowRfc2544_Output.showResponse.u.report[1].reportName = 'Rep15'
ShowRfc2544_Output.showResponse.u.report[1].created =
'1970-01-02T01:57:34+00:00'
ShowRfc2544_Output.showResponse.u.report[1].status = 'Failed'
ShowRfc2544_Output.showResponse.u.report[2].reportName = 'Rep16'
ShowRfc2544_Output.showResponse.u.report[2].created =
'1970-01-02T02:08:12+00:00'
ShowRfc2544_Output.showResponse.u.report[2].status = 'Succeeded'
ShowRfc2544_Output.showResponse.u.report[3].reportName = 'profile1'
ShowRfc2544_Output.showResponse.u.report[3].created =
'1970-01-02T03:48:16+00:00'
ShowRfc2544_Output.showResponse.u.report[3].status = 'Failed'
```

```
ShowRfc2544 Commit Success!!!
```

```
Switch(config-controller-RFC2544PortType)# exit
```

Deleting RFC 2544 Profile on NID-1

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	RFC2544PortType Example: Switch(config-controller)# RFC2544PortType	Enters the RFC2544PortType mode.
Step 4	deleterfc2544 rfc2544DeleteConfig {profileName profileName delete {btob dMAC description dwellTime frameLoss frameSizes ifc latency megLevel rfc2544 throughput vid}} Example: Switch(config-controller-RFC2544PortType)# deleteRfc2544 rfc2544DeleteConfig profileName profile1	Deletes RFC profile. <ul style="list-style-type: none"> • profileName—Specifies RFC 2544 profile name. • <i>profileName</i>—Name of the RFC 2544 profile . • delete—Deletes the specific attributes of the profile. • btob—Removes back-to-back test. • dMAC—Removes destination MAC. • description—Removes description. • dwellTime—Removes dwell time. • frameLoss—Removes frame loss test. • frameSizes—Removes frame sizes. • ifc—Removes IFC. • latency—Removes latency test. • megLevel—Removes MEG level. • rfc2544—Removes RFC 2544 profile. • throughput—Removes throughput test. • vid—Removes version ID (VID).

	Command or Action	Purpose
Step 5	deleteRfc2544 review Example: Switch(config-controller-RFC2544PortType)# deleteRfc2544 review	Displays the deleteRfc2544 configuration.
Step 6	deleteRfc2544 commit Example: Switch(config-controller-RFC2544PortType)# deleteRfc2544 commit	Sends the deleteRfc2544 configuration to the ME 1200 NID.
Step 7	exit Example: Switch(config-controller-RFC2544PortType)# exit	Exits to the config-controller mode.

Configuration Example

The example shows how to delete RFC 2544 profile on NID-1:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# RFC2544PortType
Switch(config-controller-RFC2544PortType)# deleteRfc2544 rfc2544DeleteConfig profileName
profile1
Switch(config-controller-RFC2544PortType)# deleteRfc2544 review
Switch(config-controller-RFC2544PortType)# deleteRfc2544 commit
Switch(config-controller-RFC2544PortType)# exit
```

Modifying RFC 2544 with Frameloss and Backtoback

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	RFC2544PortType Example: Switch(config-controller)# RFC2544PortType	Enters the RFC2544PortType mode.

	Command or Action	Purpose
Step 4	<p>SetRfc2544TestToRun testParameters {profileName <i>profileName</i> frameSizes testToRun {throughput latency frameLoss backToBack} thoughputTPParams {trialDuration minRate maxRate accuracy allowedFrameLoss} latencyTPParams {trialDuration delayMessInterval allowedFrameLoss} frameLossTPParams {trialDuration minRate maxRate rateStep} backToBackTPParams {trialDuration trialCount}}</p> <p>Example: Switch(config-controller-RFC2544PortType)# setRfc2544TestToRun testParameters profileName vlan-profile Switch(config-controller-RFC2544PortType)# setRfc2544TestToRun testParameters backToBackTPParams trialCount 2 Switch(config-controller-RFC2544PortType)# setRfc2544TestToRun testParameters frameLossTPParams minRate 100 Switch(config-controller-RFC2544PortType)# setRfc2544TestToRun testParameters frameLossTPParams maxRate 200 Switch(config-controller-RFC2544PortType)# setRfc2544TestToRun testParameters frameLossTPParams rateStep 10</p>	<p>Modifies RFC 2544 with Frameloss and BacktoBack.</p> <ul style="list-style-type: none"> • testParameters—Specifies RFC 2544 test parameters. • profileName—Specifies RFC 2544 profile name. • profileName—Name of the RFC 2544 profile. • frameSizes—Specifies frame sizes separated by a comma, for example, 1024,128,1280,1518, 2000, 256, 512, 64, 9600. • testToRun—Test to be run. <ul style="list-style-type: none"> ◦ throughput—Enables throughput test and optionally set its parameters. ◦ latency—Enables latency test and optionally set its parameters. ◦ frameLoss—Enables frame-loss test and optionally set its parameters. ◦ backToBack—Enables back-to-back test and optionally set its parameters. • thoughputTPParams—Specifies throughput test parameters. <ul style="list-style-type: none"> ◦ trialDuration—Sets the duration of one trial. ◦ minRate—Sets the minimum rate. ◦ maxRate—Sets the maximum rate. ◦ accuracy—Sets the accuracy (stop criterion). ◦ allowedFrameLoss—Sets the maximum allowed test protocol data unit (PDU) loss at which the test is considered successful. • latencyTPParams—Specifies latency test parameters. <ul style="list-style-type: none"> ◦ trialDuration—Sets the duration of one trial. ◦ delayMessInterval—Specifies interval between sending delay measurement frames. ◦ allowedFrameLoss—Sets the maximum allowed test PDU loss at which the test is considered successful. • frameLossTPParams—Specifies frame loss test parameters. <ul style="list-style-type: none"> ◦ trialDuration—Sets the duration of one trial. ◦ minRate— Sets the minimum rate. ◦ maxRate— Sets the maximum rate.

	Command or Action	Purpose
		<ul style="list-style-type: none"> ◦ rateStep—Sets the step rate. • backToBackTPParams—Specifies back to back test parameters. <ul style="list-style-type: none"> ◦ trialDuration—Specifies the time (in milliseconds) to transmit a burst of Y.1731 test frames at line rate and frame size. ◦ trialCount—Specifies the number of times to repeat the burst.
<p>Step 5</p>	<p>SetRfc2544TestToRun review</p> <p>Example: Switch(config-controller-RFC2544PortType) # SetRfc2544TestToRun review</p>	<p>Displays the SetRfc2544TestToRun configuration.</p>
<p>Step 6</p>	<p>SetRfc2544TestToRun commit</p> <p>Example: Switch(config-controller-RFC2544PortType) # SetRfc2544TestToRun commit</p>	<p>Sends the SetRfc2544TestToRun configuration to the ME 1200 NID.</p>
<p>Step 7</p>	<p>SetRfc2544TestToRun testParameters {profileName <i>profileName</i> frameSizes testToRun {throughput latency frameLoss backToBack} throughputTPParams {trialDuration minRate maxRate accuracy allowedFrameLoss} latencyTPParams {trialDuration delayMessInterval allowedFrameLoss} frameLossTPParams {trialDuration minRate maxRate rateStep} backToBackTPParams {trialDuration trialCount}}</p> <p>Example: Switch(config-controller-RFC2544PortType) # setRfc2544TestToRun testParameters testToRun backToBack enable Switch(config-controller-RFC2544PortType) # setRfc2544TestToRun testParameters testToRun frameLoss enable Switch(config-controller-RFC2544PortType) # setRfc2544TestToRun testParameters testToRun latency disable Switch(config-controller-RFC2544PortType) # setRfc2544TestToRun testParameters testToRun throughput disable Switch(config-controller-RFC2544PortType) # setRfc2544TestToRun testParameters profileName vlan-profile</p>	<p>Modifies RFC 2544 with Frameloss and BacktoBack.</p> <ul style="list-style-type: none"> • testParameters—Specifies RFC 2544 test parameters. • profileName—Specifies RFC 2544 profile name. • <i>profileName</i>—Name of the RFC 2544 profile. • frameSizes—Specifies frame sizes separated by a comma, for example, 1024,128,1280,1518, 2000, 256, 512, 64, 9600. • testToRun—Test to be run. <ul style="list-style-type: none"> ◦ throughput—Enables throughput test and optionally set its parameters. ◦ latency—Enables latency test and optionally set its parameters. ◦ frameLoss—Enables frame-loss test and optionally set its parameters. ◦ backToBack—Enables back-to-back test and optionally set its parameters. • throughputTPParams—Specifies throughput test parameters. <ul style="list-style-type: none"> ◦ trialDuration—Sets the duration of one trial. ◦ minRate—Sets the minimum rate. ◦ maxRate—Sets the maximum rate.

	Command or Action	Purpose
		<ul style="list-style-type: none"> ◦ accuracy—Sets the accuracy (stop criterion). ◦ allowedFrameLoss—Sets the maximum allowed test protocol data unit (PDU) loss at which the test is considered successful. • latencyTParams—Specifies latency test parameters. <ul style="list-style-type: none"> ◦ trialDuration—Sets the duration of one trial. ◦ delayMessInterval—Specifies interval between sending delay measurement frames. ◦ allowedFrameLoss—Sets the maximum allowed test PDU loss at which the test is considered successful. • frameLossTParams—Specifies frame loss test parameters. <ul style="list-style-type: none"> ◦ trialDuration—Sets the duration of one trial. ◦ minRate— Sets the minimum rate. ◦ maxRate— Sets the maximum rate. ◦ rateStep—Sets the step rate. • backToBackTParams—Specifies back to back test parameters. <ul style="list-style-type: none"> ◦ trialDuration—Specifies the time (in milliseconds) to transmit a burst of Y.1731 test frames at line rate and frame size. ◦ trialCount—Specifies the number of times to repeat the burst.
Step 8	SetRfc2544TestToRun review Example: Switch(config-controller-RFC2544PortType) # SetRfc2544TestToRun review	Displays the SetRfc2544TestToRun configuration.
Step 9	SetRfc2544TestToRun commit Example: Switch(config-controller-RFC2544PortType) # SetRfc2544TestToRun commit	Sends the SetRfc2544TestToRun configuration to the ME 1200 NID.
Step 10	exit Example: Switch(config-controller-RFC2544PortType) # exit	Exits to the config-controller mode.

Configuration Example

The example shows how to modify and enable RFC 2544 with Frameloss and BacktoBack:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# RFC2544PortType
Switch(config-controller-RFC2544PortType)# setRfc2544TestToRun testParameters profileName
vlan-profile
Switch(config-controller-RFC2544PortType)# setRfc2544TestToRun testParameters
backToBackTPParams trialCount 2
Switch(config-controller-RFC2544PortType)# setRfc2544TestToRun testParameters frameLossTPParams
minRate 100
Switch(config-controller-RFC2544PortType)# setRfc2544TestToRun testParameters frameLossTPParams
maxRate 200
Switch(config-controller-RFC2544PortType)# setRfc2544TestToRun testParameters frameLossTPParams
rateStep 10
Switch(config-controller-RFC2544PortType)# setRfc2544TestToRun review
Switch(config-controller-RFC2544PortType)# setRfc2544TestToRun commit

Switch(config-controller-RFC2544PortType)# setRfc2544TestToRun testParameters testToRun
backToBack enable
Switch(config-controller-RFC2544PortType)# setRfc2544TestToRun testParameters testToRun
frameLoss enable
Switch(config-controller-RFC2544PortType)# setRfc2544TestToRun testParameters testToRun
latency disable
Switch(config-controller-RFC2544PortType)# setRfc2544TestToRun testParameters testToRun
throughput disable
Switch(config-controller-RFC2544PortType)# setRfc2544TestToRun testParameters profileName
vlan-profile
Switch(config-controller-RFC2544PortType)# setRfc2544TestToRun review
Switch(config-controller-RFC2544PortType)# setRfc2544TestToRun commit

Switch(config-controller-RFC2544PortType)# exit
```

Getting RFC 2544 Profile after Modifying Frameloss and BacktoBack

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	RFC2544PortType Example: Switch(config-controller)# RFC2544PortType	Enters the RFC2544PortType mode.

	Command or Action	Purpose
Step 4	getRfc2544TestToRun rfc2544Request profileName <i>profileName</i> Example: Switch(config-controller-RFC2544PortType) # getRfc2544TestToRun rfc2544Request profileName vlan-profile	Gets the RFC 2544 profile. <ul style="list-style-type: none"> • rfc2544Request—Specifies RFC2544 request parameter. • profileName—Specifies name of the profile.
Step 5	getRfc2544TestToRun review Example: Switch(config-controller-RFC2544PortType) # getRfc2544TestToRun review	Displays the getRfc2544Profile configuration.
Step 6	getRfc2544TestToRun commit Example: Switch(config-controller-RFC2544PortType) # getRfc2544TestToRun commit	Sends the getRfc2544Profile configuration to the ME 1200 NID.
Step 7	exit Example: Switch(config-controller-RFC2544PortType) # exit	Exits to the config-controller mode.

Configuration Example

The example shows how to get RFC 2544 Profile after modifying frameloss and backtoBack:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# RFC2544PortType
Switch(config-controller-RFC2544PortType)# getRfc2544TestToRun rfc2544Request profileName
vlan-profile
Switch(config-controller-RFC2544PortType)# getRfc2544TestToRun review
Switch(config-controller-RFC2544PortType)# getRfc2544TestToRun commit
```

```
GetRfc2544TestToRun_Output.testParameters.profileName = 'vlan-profile'
GetRfc2544TestToRun_Output.testParameters.frameSizes =
'64-128-256-512-1024-1280-1518-2000'
GetRfc2544TestToRun_Output.testParameters.testToRun.throughput = false
GetRfc2544TestToRun_Output.testParameters.testToRun.latency = false
GetRfc2544TestToRun_Output.testParameters.testToRun.frameLoss = true
GetRfc2544TestToRun_Output.testParameters.testToRun.backToBack = true
GetRfc2544TestToRun_Output.testParameters.throughputTParams.trialDuration
= 60
GetRfc2544TestToRun_Output.testParameters.throughputTParams.minRate = 800
GetRfc2544TestToRun_Output.testParameters.throughputTParams.maxRate = 1000
GetRfc2544TestToRun_Output.testParameters.throughputTParams.accuracy = 2
GetRfc2544TestToRun_Output.testParameters.throughputTParams.allowedFrameLoss
= 0
GetRfc2544TestToRun_Output.testParameters.latencyTParams.trialDuration =
120
GetRfc2544TestToRun_Output.testParameters.latencyTParams.delayMessInterval
= 10
```



```

GetRfc2544TestToRun_Output.testParameters.latencyTParams.allowedFrameLoss
= 0
GetRfc2544TestToRun_Output.testParameters.frameLossTParams.trialDuration
= 60
GetRfc2544TestToRun_Output.testParameters.frameLossTParams.minRate = 800
GetRfc2544TestToRun_Output.testParameters.frameLossTParams.maxRate = 1000
GetRfc2544TestToRun_Output.testParameters.frameLossTParams.rateStep = 5
GetRfc2544TestToRun_Output.testParameters.backToBackTParams.trialDuration
= 2000
GetRfc2544TestToRun_Output.testParameters.backToBackTParams.trialCount =
50

```

```
GetRfc2544TestToRun Commit Success!!!
```

```
Switch(config-controller-RFC2544PortType)# exit
```

Verifying RFC 2544

Use the following commands to verify the RFC 2544 status on the controller.

- **showRfc2544 com**

This command displays the RFC 2544 report. The following is a sample output from the command:

```
Switch(config-controller-SPAN)# showRfc2544 com
Switch(config-controller-SPAN)# showRfc2544 com review
```

```
Commands in queue:
  showRfc2544 com
```

```
Switch(config-controller-SPAN)# showSpanConfig commit
```

```

ShowRfc2544_Output.showResponse.t = 2
ShowRfc2544_Output.showResponse.u.report[0].reportName = 'Jul3'
ShowRfc2544_Output.showResponse.u.report[0].created =
'1970-01-04T01:02:24+00:00'
ShowRfc2544_Output.showResponse.u.report[0].status = 'Failed'
ShowRfc2544_Output.showResponse.u.report[1].reportName = 'July3'
ShowRfc2544_Output.showResponse.u.report[1].created =
'1970-01-04T01:15:37+00:00'
ShowRfc2544_Output.showResponse.u.report[1].status = 'Failed'
ShowRfc2544_Output.showResponse.u.report[2].reportName = 'repjuly3'
ShowRfc2544_Output.showResponse.u.report[2].created =
'1970-01-04T01:52:07+00:00'
ShowRfc2544_Output.showResponse.u.report[2].status = 'Succeeded'
ShowRfc2544_Output.showResponse.u.report[3].reportName = 'Report1'
ShowRfc2544_Output.showResponse.u.report[3].created =
'1970-01-04T07:29:25+00:00'
ShowRfc2544_Output.showResponse.u.report[3].status = 'Succeeded'
ShowRfc2544_Output.showResponse.u.report[4].reportName = 'rep-vlan'
ShowRfc2544_Output.showResponse.u.report[4].created =
'1970-01-04T21:01:59+00:00'
ShowRfc2544_Output.showResponse.u.report[4].status = 'Failed'
ShowRfc2544_Output.showResponse.u.report[5].reportName = 'Report20'
ShowRfc2544_Output.showResponse.u.report[5].created =
'1970-01-01T08:15:17+00:00'
ShowRfc2544_Output.showResponse.u.report[5].status = 'Failed'
ShowRfc2544_Output.showResponse.u.report[6].reportName = 'Rep22'

```

```

ShowRfc2544_Output.showResponse.u.report[6].created =
'1970-01-01T09:36:14+00:00'
ShowRfc2544_Output.showResponse.u.report[6].status = 'Failed'
ShowRfc2544_Output.showResponse.u.report[7].reportName = 'profile2'
ShowRfc2544_Output.showResponse.u.report[7].created =
'1970-01-02T00:55:43+00:00'
ShowRfc2544_Output.showResponse.u.report[7].status = 'Failed'

ShowRfc2544 Commit Success!!!

```

Additional References

Related Documents

Related Topic	Document Title
Cisco ME 3800x and ME 3600x Switches Software Configuration Guide, Cisco IOS Release 15.4(1)S	http://www.cisco.com/c/en/us/td/docs/switches/metro/me3600x_3800x/software/release/15-4_1_S/configuration/guide/3800x3600xscg.html

MIBs

MIB	MIBs Link
MIBs Supporting Cisco IOS	To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL: http://www.cisco.com/go/mibs

Technical Assistance

Description	Link
<p>The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.</p> <p>To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds.</p> <p>Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.</p>	http://www.cisco.com/support