



SNMP traps for PPPoE Session Limits

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The SNMP Traps for PPPoE Session Limits feature provides SNMP MIB support for PPPoE session limits and generates notifications if those limits are reached.

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Finding Feature Information

Your software release may not support all the features documented in this module. For the latest feature information and caveats, see the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the Feature Information Table at the end of this document.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to www.cisco.com/go/cfn. An account on Cisco.com is not required.

Prerequisites for SNMP Traps for PPPoE Session Limits

- PPPoE sessions must be established for this feature to work.

Restrictions for SNMP Traps for PPPoE Session Limits

- The **snmp-server enable traps pppoe** command only enables SNMP traps. It does not support inform requests.



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Information About SNMP Traps for PPPoE Session Limits

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Benefits of Monitoring PPPoE Sessions with SNMP

The monitoring of PPPoE sessions with SNMP provides the following benefits:

- It helps manage the number of PPPoE sessions configured on a router or PVC by sending notification messages when the PPPoE session threshold has been reached.
- It provides a way of tracking PPPoE session information over time.

Network Management Protocol

SNMP is a network management protocol used almost exclusively in TCP/IP networks. SNMP provides a means to monitor and control network devices and to manage configurations, statistics collection, performance, and security. SNMP version 2 supports centralized and distributed network management strategies and includes improvements in the Structure of Management Information (SMI), protocol operations, management architecture, and security.

How to Configure SNMP Traps for PPPoE Session Limits

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Configuring the PPPoE Session-Count Threshold for the Router

Perform this task to configure the PPPoE session-count threshold for the router.

**Note**

The **sessions max limit** command is available only if you configure the **bba-group pppoe** command using the **global** keyword.

SUMMARY STEPS

1. enable
2. configure terminal
3. snmp-server enable traps pppoe
4. bba-group pppoe {group-name | global}
5. sessions max limit session-number [threshold threshold-value]
6. virtual-template template-number
7. end
8. more system:running-config

DETAILED STEPS

Command or Action	Purpose
Step 1 enable Example: <pre>Router> enable</pre>	Enables privileged EXEC mode. <ul style="list-style-type: none"> • Enter your password if prompted.
Step 2 configure terminal Example: <pre>Router# configure terminal</pre>	Enters global configuration mode.
Step 3 snmp-server enable traps pppoe Example: <pre>Router(config)# snmp-server enable traps pppoe</pre>	(Optional) Enables PPPoE session count SNMP notifications. <ul style="list-style-type: none"> • This command enables SNMP traps that send notification messages when PPPoE sessions have been reached.
Step 4 bba-group pppoe {group-name global} Example: <pre>Router(config)# bba-group pppoe global</pre>	Configures a BBA group to be used to establish PPPoE sessions and enters BBA group configuration mode.
Step 5 sessions max limit session-number [threshold threshold-value] Example: <pre>Router(config-bba-group)# sessions max limit 4000 threshold 3000</pre>	Configures the PPPoE global profile with the maximum number of PPPoE sessions permitted on a router and sets the PPPoE session-count threshold at which an SNMP trap will be generated. <p>Note This command applies only to the global profile.</p>

Command or Action	Purpose
Step 6 <code>virtual-template template-number</code> Example: Router(config-bba-group)# virtual-template 1	Specifies the virtual template that will be used to clone the virtual access interfaces (VAI).
Step 7 <code>end</code> Example: Router(config-bba-group)# end	Exits BBA group configuration mode and returns to privileged EXEC mode.
Step 8 <code>more system:running-config</code> Example: Router(#) more system:running-config	Displays the running configuration and the PPPoE session-count thresholds.

Configuring the PPPoE Session-Count Threshold for a PVC

Perform this task to configure the PPPoE session-count threshold for a PVC.

SUMMARY STEPS

1. `enable`
2. `configure terminal`
3. `snmp-server enable traps pppoe`
4. `interface atm slot / subslot / port [.subinterface] [multipoint | point-to-point]`
5. `pvc [name] vpi / vci`
6. `pppoe max-sessions number-of-sessions [threshold-sessions number-of-sessions]`
7. `protocol pppoe`
8. `end`
9. `more system:running-config`

DETAILED STEPS

Command or Action	Purpose
Step 1 <code>enable</code> Example: Router> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"> • Enter your password if prompted.

Command or Action	Purpose
Step 2 <code>configure terminal</code>	Enters global configuration mode.
Example: <pre>Router# configure terminal</pre>	
Step 3 <code>snmp-server enable traps pppoe</code> Example: <pre>Router(config)# snmp-server enable traps pppoe</pre>	(Optional) Enables PPPoE session count SNMP notifications. <ul style="list-style-type: none"> This command enables SNMP traps that send notification messages when PPPoE session thresholds have been reached.
Step 4 <code>interface atm slot / subslot / port [.subinterface] [multipoint point-to-point]</code> Example: <pre>Router(config)# interface atm 0/0/0.3 point-to-point</pre>	Configures the ATM interface and enters subinterface configuration mode.
Step 5 <code>pvc [name] vpi / vci</code> Example: <pre>Router(config-subif)# pvc 5/120</pre>	Creates an ATM PVC and enters ATM VC configuration mode.
Step 6 <code>pppoe max-sessions number-of-sessions [threshold-sessions number-of-sessions]</code> Example: <pre>Router(config-if-atm-vc)# pppoe max-sessions 5 threshold-sessions 3</pre>	Sets the maximum number of PPPoE sessions that will be permitted on an ATM PVC, PVC range, VC class, or VLAN, and sets the PPPoE session-count threshold at which an SNMP trap will be generated.
Step 7 <code>protocol pppoe</code> Example: <pre>Router(config-if-atm-vc)# protocol pppoe</pre>	Enables PPPoE sessions to be established on ATM PVCs.
Step 8 <code>end</code> Example: <pre>Router(config-if-atm-vc)# end</pre>	(Optional) Exits ATM VC configuration mode and returns to sub interface mode.

Command or Action	Purpose
Step 9 <code>more system:running-config</code> Example: Router(#) more system:running-config	Displays the running configuration and the PPPoE session-count thresholds.

Configuring the PPPoE Session-Count Threshold for a VC Class

Perform this task to configure the PPPoE session-count threshold for a VC class.

SUMMARY STEPS

1. `enable`
2. `configure terminal`
3. `snmp-server enable traps pppoe`
4. `vc-class atm name`
5. `pppoe max-sessions number-of-sessions [threshold-sessions number-of-sessions]`
6. `protocol pppoe [group group-name | global]`
7. `end`
8. `more system:running-config`

DETAILED STEPS

Command or Action	Purpose
Step 1 <code>enable</code> Example: Router> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"> • Enter your password if prompted.
Step 2 <code>configure terminal</code> Example: Router# configure terminal	Enters global configuration mode.
Step 3 <code>snmp-server enable traps pppoe</code> Example: Router(config)# snmp-server enable traps pppoe	(Optional) Enables PPPoE session count SNMP notifications. <ul style="list-style-type: none"> • This command enables SNMP traps that send notification messages when PPPoE session thresholds have been reached.

Command or Action	Purpose
Step 4 <code>vc-class atm name</code>	Creates a VC class for an ATM PVC, or SVC, or ATM interface and enters VC class configuration mode.
Example: <pre>Router(config)# vc-class atm main</pre>	
Step 5 <code>pppoe max-sessions number-of-sessions [threshold-sessions number-of-sessions]</code>	Sets the maximum number of PPPoE sessions that will be permitted on an ATM PVC, PVC range, VC class, or VLAN, and sets the PPPoE session-count threshold at which an SNMP trap will be generated.
Example: <pre>Router(config-vc-class)# pppoe max-sessions 7 threshold-sessions 3</pre>	
Step 6 <code>protocol pppoe [group group-name global]</code>	Enables PPPoE sessions to be established.
Example: <pre>Router(config-vc-class)# protocol pppoe group one</pre>	
Step 7 <code>end</code>	(Optional) Exits VC class configuration mode and returns to privileged EXEC mode.
Example: <pre>Router(config-vc-class)# end</pre>	
Step 8 <code>more system:running-config</code>	Displays the running configuration and the PPPoE session-count thresholds.
Example: <pre>Router(#) more system:running-config</pre>	

Configuring the PPPoE Session-Count Threshold for an ATM PVC Range

SUMMARY STEPS

1. `enable`
2. `configure terminal`
3. `snmp-server enable traps pppoe`
4. `interface atm slot / subslot / port [.subinterface] [multipoint | point-to-point]`
5. `range [range-name] pvc start-vpi / start-vci end-vpi / end-vci`
6. `pppoe max-sessions number-of-sessions [threshold-sessions number-of-sessions]`
7. `protocol pppoe [group group-name | global]`
8. `end`
9. `more system:running-config`

DETAILED STEPS

Command or Action	Purpose
Step 1 <code>enable</code> Example: <pre>Router> enable</pre>	Enables privileged EXEC mode. <ul style="list-style-type: none"> Enter your password if prompted.
Step 2 <code>configure terminal</code> Example: <pre>Router# configure terminal</pre>	Enters global configuration mode.
Step 3 <code>snmp-server enable traps pppoe</code> Example: <pre>Router(config)# snmp-server enable traps pppoe</pre>	(Optional) Enables PPPoE session count SNMP notifications. <ul style="list-style-type: none"> This command enables SNMP traps that send notification messages when PPPoE session thresholds have been reached.
Step 4 <code>interface atm slot / subslot / port [.subinterface] [multipoint point-to-point]</code> Example: <pre>Router(config)# interface atm 0/0/0.3 point-to-point</pre>	Configures the ATM interface and enters the subinterface configuration mode.
Step 5 <code>range [range-name] pvc start-vpi / start-vci end-vpi / end-vci</code> Example: <pre>Router(config-subif)# range pvc 3/100 3/105</pre>	Defines a range of ATM PVCs and enters ATM PVC range configuration mode.
Step 6 <code>pppoe max-sessions number-of-sessions [threshold-sessions number-of-sessions]</code> Example: <pre>Router(config-if-atm-range)# pppoe max-sessions 20 threshold-sessions 15</pre>	Sets the maximum number of PPPoE sessions that will be permitted on an ATM PVC, PVC range, VC class, or VLAN, and sets the PPPoE session-count threshold at which an SNMP trap will be generated.

Command or Action	Purpose
Step 7 <code>protocol pppoe [group <i>group-name</i> global]</code>	Enables PPPoE sessions to be established.
Example: <pre>Router(config-if-atm-range)# protocol pppoe group two</pre>	
Step 8 <code>end</code> Example: <pre>Router(config-if-atm-range)# end</pre>	(Optional) Exits ATM PVC range configuration mode and returns to privileged EXEC mode.
Step 9 <code>more system:running-config</code> Example: <pre>Router(#) more system:running-config</pre>	Displays the running configuration and the PPPoE session-count thresholds.

Configuring the PPPoE Session-Count Threshold for an Individual PVC Within a Range

Perform this task to configure the PPPoE session-count threshold for an individual PVC within an ATM PVC range.

SUMMARY STEPS

1. `enable`
2. `configure terminal`
3. `snmp-server enable traps pppoe`
4. `interface atm slot / subslot / port [.subinterface] [multipoint | point-to-point]`
5. `range [range-name] pvc start-vpi / start-vci end-vpi /end-vci`
6. `pvc-in-range [pvc-name] [vpi / vci]`
7. `pppoe max-sessions number-of-sessions [threshold-sessions number-of-sessions]`
8. `end`
9. `more system:running-config`

DETAILED STEPS

Command or Action	Purpose
Step 1 <code>enable</code> Example: <pre>Router> enable</pre>	Enables privileged EXEC mode. <ul style="list-style-type: none"> Enter your password if prompted.
Step 2 <code>configure terminal</code> Example: <pre>Router# configure terminal</pre>	Enters global configuration mode.
Step 3 <code>snmp-server enable traps pppoe</code> Example: <pre>Router(config)# snmp-server enable traps pppoe</pre>	(Optional) Enables PPPoE session count SNMP notifications. <ul style="list-style-type: none"> This command enables SNMP traps that send notification messages when PPPoE session thresholds have been reached.
Step 4 <code>interface atm slot / subslot / port [.subinterface] [multipoint point-to-point]</code> Example: <pre>Router(config)# interface atm 6/0.110 multipoint</pre>	Configures the ATM interface and enters subinterface configuration mode.
Step 5 <code>range [range-name] pvc start-vpi / start-vci end-vpi /end-vci</code> Example: <pre>Router(config-subif)# range rangel pvc 3/100 4/199</pre>	Defines a range of ATM PVCs and enters ATM PVC Range configuration mode.
Step 6 <code>pvc-in-range [pvc-name] [vpi / vci]</code> Example: <pre>Router(config-if-atm-range)# pvc-in-range pvc1 3/104</pre>	Configures an individual PVC within a PVC range and enters ATM PVC-in-range configuration mode.

Command or Action	Purpose
Step 7 pppoe max-sessions <i>number-of-sessions</i> [threshold-sessions <i>number-of-sessions</i>]	Sets the maximum number of PPPoE sessions that will be permitted on an ATM PVC, PVC range, VC class, or VLAN, and sets the PPPoE session-count threshold at which an SNMP trap will be generated.
Example: <pre>Router(cfg-if-atm-range-pvc)# pppoe max-sessions 10 threshold-sessions 5</pre>	
Step 8 end Example: <pre>Router(cfg-if-atm-range-pvc)# end</pre>	(Optional) Exits ATM PVC-in-range configuration mode and returns to privileged EXEC mode.
Step 9 more system:running-config Example: <pre>Router(#) more system:running-config</pre>	Displays the running configuration and the PPPoE session-count thresholds.

Monitoring and Maintaining PPPoE Session Counts and SNMP Notifications

Perform the following task to monitor PPPoE sessions counts and SNMP notifications.

SUMMARY STEPS

1. **enable**
2. **debug snmp packets**
3. **debug pppoe errors [rmac remote-mac-address | interface type number [vc {[vpi/]vci | vc-name}] [vlan vlan-id]]**
4. **debug pppoe events [rmac remote-mac-address | interface type number [vc {[vpi/]vci | vc-name}] [vlan vlan-id]]**
5. **show vpdn session**
6. **show pppoe session**

DETAILED STEPS

Step 1 **enable**

Use this command to enable privileged EXEC mode. Enter your password when prompted.

Example:

```
Router> enable
```

Step 2 **debug snmp packets**

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Use this command to display information about every SNMP packet sent or received by the router:

Example:

```
Router# debug snmp packets
SNMP: Packet received via UDP from 192.0.2.11 on GigabitEthernet1/0
SNMP: Get-next request, reqid 23584, errstat 0, erridx 0
sysUpTime = NULL TYPE/VALUE
system.1 = NULL TYPE/VALUE
system.6 = NULL TYPE/VALUE
SNMP: Response, reqid 23584, errstat 0, erridx 0
sysUpTime.0 = 2217027
system.1.0 = Cisco Internetwork Operating System Software
system.6.0 =
SNMP: Packet sent via UDP to 192.0.2.11
```

Step 3

debug pppoe errors [rmac remote-mac-address | interface type number [vc {[vpi /]vci | vc-name}] [vlan vlan-id]]

Use this command to display PPPoE protocol errors that prevent a session from being established or errors that cause an established session to be closed.

Example:

```
Router# debug pppoe errors interface atm 1/0.10
PPPoE protocol errors debugging is on
Router#
00:44:30:PPPoE 0:Max session count(1) on mac(00b0.c2e9.c470) reached.
00:44:30:PPPoE 0:Over limit or Resource low. R:00b0.c2e9.c470 L:ffff.ffff.ffff 0/101
ATM1/0.10
```

Step 4

debug pppoe events [rmac remote-mac-address | interface type number [vc {[vpi /]vci | vc-name}] [vlan vlan-id]]

Use this command to display PPPoE protocol messages about events that are part of normal session establishment or shutdown:

Example:

```
Router# debug pppoe events interface atm 1/0.10 vc 101
PPPoE protocol events debugging is on
Router#
00:41:55:PPPoE 0:I PADI R:00b0.c2e9.c470 L:ffff.ffff.ffff 0/101 ATM1/0.10
00:41:55:PPPoE 0:O PADO, R:00b0.c2e9.c470 L:0001.c9f0.0c1c 0/101 ATM1/0.10
00:41:55:PPPoE 0:I PADR R:00b0.c2e9.c470 L:0001.c9f0.0c1c 0/101 ATM1/0.10
00:41:55:PPPoE :encap string prepared
00:41:55:[3]PPPoE 3:Access IE handle allocated
00:41:55:[3]PPPoE 3:pppoe SSS switch updated
00:41:55:[3]PPPoE 3:AAA unique ID allocated
00:41:55:[3]PPPoE 3:No AAA accounting method list
00:41:55:[3]PPPoE 3:Service request sent to SSS
00:41:55:[3]PPPoE 3:Created R:0001.c9f0.0c1c L:00b0.c2e9.c470 0/101 ATM1/0.10
00:41:55:[3]PPPoE 3:State REQ_NASPORT Event MORE_KEYS
00:41:55:[3]PPPoE 3:O PADS R:00b0.c2e9.c470 L:0001.c9f0.0c1c 0/101 ATM1/0.10
00:41:55:[3]PPPoE 3:State START_PPP Event DYN_BIND
00:41:55:[3]PPPoE 3:data path set to PPP
00:41:57:[3]PPPoE 3:State LCP_NEGO Event PPP_LOCAL
00:41:57:PPPoE 3:SB:Sent vtemplate request on base Vi2
00:41:57:[3]PPPoE 3:State CREATE_VA Event VA_RESP
00:41:57:[3]PPPoE 3:Vi2.1 interface obtained
00:41:57:[3]PPPoE 3:State PTA_BIND Event STAT_BIND
00:41:57:[3]PPPoE 3:data path set to Virtual Access
00:41:57:[3]PPPoE 3:Connected PTA
```

Step 5

show vpdn session

Use this command to display information about active Level 2 Forwarding (L2F) protocol tunnel and message identifiers on a VPDN:

Example:

```
Router# show vpdn session
%No active L2TP tunnels
%No active L2F tunnels
PPPoE Session Information Total tunnels 1 sessions 1
PPPoE Session Information
SID      RemMAC          LocMAC        Intf     VAST      OIntf    VC
1        0010.7b01.2cd9  0090.ab13.bca8  Vi4       UP        AT6/0    0/10
```

Step 6

show pppoe session

Use this command to display information about the currently active PPPoE sessions:

Example:

```
Router# show pppoe session
 3 sessions in LOCALLY_TERMINATED (PTA) State
 3 sessions total

  Uniq ID  PPPoE   RemMAC           Port          VT  VA      State
          SID    LocMAC
  1      1  0007.b3dc.a41c  ATM0/3/1.100  1  Vi2.1  PTA
          001a.3045.0331  VC: 99/100      UP
  2      2  0007.b3dc.a41c  ATM0/3/1.100  1  Vi2.2  PTA
          001a.3045.0331  VC: 99/100      UP
  3      3  0007.b3dc.a41c  ATM0/3/1.100  1  Vi2.3  PTA
          001a.3045.0331  VC: 99/100      UP

Router#
```

Configuration Examples for SNMP Traps for PPPoE Session Limits

- [Example: Configuring PPPoE Session-Count SNMP Traps , page 13](#)
- [Example: Configuring PPPoE Session-Count Threshold for the Router , page 14](#)
- [Example: Configuring PPPoE Session-Count Threshold for a PVC, page 14](#)
- [Example: Configuring PPPoE Session-Count Threshold for a VC Class , page 14](#)
- [Example: Configuring PPPoE Session-Count Threshold for a PVC Range , page 14](#)
- [Example: Configuring PPPoE Session-Count Threshold for an Individual PVC Within a PVC Range , page 15](#)

Example: Configuring PPPoE Session-Count SNMP Traps

The following example shows how to enable the router to send PPPoE session-count SNMP notifications to the host at the address 192.10.2.10:

```
snmp-server community public RW
```

Configuration Examples for SNMP Traps for PPPoE Session Limits

```
snmp-server enable traps pppoe
snmp-server host 192.10.2.10 version 2c public udp-port 1717
```

Example: Configuring PPPoE Session-Count Threshold for the Router

The following example shows a limit of 4000 PPPoE sessions configured for the router. The PPPoE session-count threshold is set at 3000 sessions, so when the number of PPPoE sessions on the router reaches 3000, an SNMP trap will be generated.

```
bba-group pppoe pppoel
sessions max limit 4000 threshold 3000
virtual-template 1
ppoe limit max-sessions 4000 threshold-sessions 3000
```

Example: Configuring PPPoE Session-Count Threshold for a PVC

The following example shows a limit of five PPPoE sessions configured for the PVC. The PPPoE session-count threshold is set at three sessions, so when the number of PPPoE sessions on the PVC reaches three, an SNMP trap will be generated.

```
interface ATM 0/0/0
ip address 10.0.0.1 255.255.255.0
no atm ilmi-keepalive
pvc 5/120
protocol ip 10.0.0.2 broadcast
ppoe max-sessions 5 threshold-sessions 3
protocol pppoe
```

Example: Configuring PPPoE Session-Count Threshold for a VC Class

The following example shows a limit of seven PPPoE sessions configured for a VC class called "main." The PPPoE session-count threshold is set at three sessions, so when the number of PPPoE sessions for the VC class reaches three, an SNMP trap will be generated.

```
vc-class atm main
protocol pppoe group global
vc-class atm global
protocol pppoe
ppoe max-sessions 7 threshold-sessions 3
```

Example: Configuring PPPoE Session-Count Threshold for a PVC Range

The following example shows a limit of 20 PPPoE sessions configured for the PVC range. The PPPoE session-count threshold will also be 20 sessions because when the session-count threshold has not been explicitly configured, it defaults to the PPPoE session limit. An SNMP trap will be generated when the number of PPPoE sessions for the range reaches 20.

```
interface ATM 0/0/0.3 point-to-point
range pvc 3/100 3/105
ppoe max-sessions 20 threshold-sessions 15
protocol pppoe
```

Example: Configuring PPPoE Session-Count Threshold for an Individual PVC Within a PVC Range

The following example shows a limit of ten PPPoE sessions configured for pvc1. The PPPoE session-count threshold is set at three sessions, so when the number of PPPoE sessions for the PVC reaches three, an SNMP trap will be generated.

```
interface atm 6/0.110 multipoint
range rangel pvc 100 4/199
  pvc-in-range pvc1 3/104
    ppoe max-sessions 10 threshold-sessions 3
```

Additional References

Related Documents

Related Topic	Document Title
Cisco IOS commands	Cisco IOS Master Commands List, All Releases
Broadband Access Aggregation and DSL commands	Cisco IOS Broadband Access Aggregation and DSL Command Reference

MIBs

MIB	MIBs Link
None	To locate and download MIBs for selected platforms, Cisco software releases, and feature sets, use Cisco MIB Locator found at the following URL: http://www.cisco.com/go/mibs

Technical Assistance

Description	Link
The Cisco Support and Documentation website provides online resources to download documentation, software, and tools. Use these resources to install and configure the software and to troubleshoot and resolve technical issues with Cisco products and technologies. Access to most tools on the Cisco Support and Documentation website requires a Cisco.com user ID and password.	http://www.cisco.com/cisco/web/support/index.html

Feature Information for SNMP Traps for PPPoE Session Limits

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to www.cisco.com/go/cfn. An account on Cisco.com is not required.

Table 1 Feature Information for SNMP Traps for PPPoE Session Limits

Feature Name	Releases	Feature Information
SNMP Traps for PPPoE Session Limits	Cisco IOS XE Release 2.6 15.1(1)SG	<p>The SNMP Traps for PPPoE Session Limits feature implements SNMP MIB support for PPPoE session limits and generates notifications in case the limits are reached.</p> <p>The following commands were introduced or modified: snmp-server enable traps pppoe.</p>

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