PPPoE Commands

This module describes the Cisco IOS XR software commands used to configure the PPPoE commands for Broadband Network Gateway (BNG) on the Cisco ASR 9000 Series Router. For details regarding the related configurations, refer to the Cisco ASR 9000 Series Aggregation Services Router Broadband Network Gateway Configuration Guide.

- `pppoe bba-group`, page 2
- `pppoe enable bba-group`, page 5
- `pppoe in-flight-window`, page 7
- `show pppoe interfaces`, page 9
- `show pppoe limits`, page 11
- `show pppoe statistics`, page 13
- `show pppoe summary`, page 16
- `show pppoe throttles`, page 18
**pppoe bba-group**

To add configuration for a particular BBA-Group and to enter the BBA-Group submode, use the `pppoe bba-group` command in Global Configuration mode. To disable this feature, use the `no` form of this command.

```
pppoe bba-group bba-group-name {ac| name| new_name| control-packets| priority| priority_bits| service|
{name| new_name| selection| disable| sessions| {access-interface| circuit-id| mac| mac-iwf|
{access-interface| pair| limit| max| {access-interface| limit| throttle| limit| session_limit| tag|
{ppp-max-payload| {deny| minimum| minimum_payload|}}}
```

**no pppoe bba-group**

### Syntax Description

<table>
<thead>
<tr>
<th><code>pppoe bba-group</code></th>
<th>Specifies the bba group name.</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ac</code></td>
<td>Enables modification of the access concentrator configuration.</td>
</tr>
<tr>
<td><code>name</code></td>
<td>Indicates the name change to include in the AC tag.</td>
</tr>
<tr>
<td><code>new_name</code></td>
<td>Specifies the new name.</td>
</tr>
<tr>
<td><code>control-packets</code></td>
<td>Enables change of control-packets configuration.</td>
</tr>
<tr>
<td><code>priority</code></td>
<td>Sets the priority to use in PPPoE and PPP control packets.</td>
</tr>
<tr>
<td><code>priority_bits</code></td>
<td>Specifies the priority bits for outgoing PPPoE and PPP control packets. This ranges between 0 and 7, where 0 indicates highest priority and 7 indicates the lowest.</td>
</tr>
<tr>
<td><code>service</code></td>
<td>Enables modification of service configuration.</td>
</tr>
<tr>
<td><code>name</code></td>
<td>Configures the service name.</td>
</tr>
<tr>
<td><code>new_name</code></td>
<td>Specifies the new service name.</td>
</tr>
<tr>
<td><code>selection</code></td>
<td>Specifies the selection of unrequested service names.</td>
</tr>
<tr>
<td><code>disable</code></td>
<td>Disables the advertising of unrequested service names.</td>
</tr>
<tr>
<td><code>sessions</code></td>
<td>Enables modification of sessions configuration.</td>
</tr>
<tr>
<td><code>access-interface</code></td>
<td>Limits PPPoE sessions on any one access interface.</td>
</tr>
<tr>
<td><code>circuit-id</code></td>
<td>Limits PPPoE sessions with any one circuit-id.</td>
</tr>
<tr>
<td><code>mac</code></td>
<td>Limits or throttles PPPoE sessions from any one mac-address.</td>
</tr>
</tbody>
</table>
**mac-iwf**
Limits or throttles IWF PPPoE sessions from any one mac-address.

**max**
Sets a per-card session limit.

**limit**
Specifies the action of limiting the PPPoE sessions for various attributes.

**session_limit**
Specifies the access-interface session limit. The value ranges from 1 to 65535.

**tag**
Enables modification of tag configuration.

**ppp-max-payload**
Modifies the ppp-max-payload configuration and allows to configure minimum and maximum payloads.

**deny**
Ignores the ppp-max-payload tag.

**minimum**
Configures the minimum payload.

**minimum_payload**
Specifies the value of the minimum payload. The value ranges from 500 to 2000.

**Command Default**
None

**Command Modes**
Global Configuration mode

**Command History**

<table>
<thead>
<tr>
<th>Release</th>
<th>Modification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release 4.2.0</td>
<td>This command was introduced.</td>
</tr>
</tbody>
</table>

**Usage Guidelines**
To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

BBA-Groups are configured globally (these are essentially configuration templates), containing the PPPoE configuration settings.

When this configuration changes to use a different BBAGroup, then all existing PPPoE sessions running under the interface are terminated.

**Task ID**

<table>
<thead>
<tr>
<th>Task ID</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>ppp</td>
<td>read, write</td>
</tr>
</tbody>
</table>
### Examples

This is an example of configuring the `pppoe bba-group` command in Global Configuration mode:

```
RP/0/RSP0/CPU0:router# configure
RP/0/RSP0/CPU0:router(config)# pppoe bba-group bba1
RP/0/RSP0/CPU0:router(config-bbagroup)# ac name red
RP/0/RSP0/CPU0:router(config-bbagroup)# service name blue
RP/0/RSP0/CPU0:router(config-bbagroup)# service selection disable
RP/0/RSP0/CPU0:router(config-bbagroup)# sessions max limit 45
RP/0/RSP0/CPU0:router(config-bbagroup)# tag ppp-max-payload minimum 689 maximum 788
```

### Related Commands

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>pppoe enable bba-group</code>, on page 5</td>
<td>Enables PPPoE on an interface.</td>
</tr>
</tbody>
</table>
pppoe enable bba-group

To enable pppoe on an interface, use the `pppoe enable bba-group` command in interface configuration mode. To disable the pppoe on the interface, use the `no` form of this command.

```
pppoe enable bba-group bba-group name
no  pppoe enable bba-group
```

**Syntax Description**

- `bba-group name`: Specifies the name of the bba-group.

**Command Default**
If no BBA-Group is specified, then the default configuration options are used, else the BBA-Group's configuration is used on this interface.

**Command Modes**
Interface configuration

**Command History**

<table>
<thead>
<tr>
<th>Release</th>
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</table>

**Usage Guidelines**
To use this command, you must be in a user group associated with a task group that includes the proper task IDs. If you suspect user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

When this configuration changes to use a different BBAGroup, then all existing PPPoE sessions running under the interface are terminated.

**Task ID**

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</thead>
<tbody>
<tr>
<td>ppp</td>
<td>read, write</td>
</tr>
</tbody>
</table>

**Examples**
This is an example of configuring the `pppoe enable bba-group` command in interface configuration mode:

```
RP/0/RSP0/CPU0:router#configure
RP/0/RSP0/CPU0:router(config)#interface Bundle-Ether100.10
RP/0/RSP0/CPU0:router(config-if)#  pppoe enable bba-group bba1
```
<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>pppoe bba-group, on page 2</td>
<td>Enables you to add configuration for a particular bba-group.</td>
</tr>
</tbody>
</table>
**pppoe in-flight-window**

To configure a limit for the number of PPPoE sessions that are in progression towards established state in BNG, use the `pppoe in-flight-window` command in Global Configuration mode. To remove this limit, use the `no` form of this command.

```
pppoe in-flight-window size
no pppoe in-flight-window
```

**Syntax Description**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>size</code></td>
<td>Specifies the window-size for the number of PPPoE sessions that are in progression towards established state in BNG. The recommended in-flight-window size for RP-based subscribers is 200, and that for LC-based subscribers is 50.</td>
</tr>
</tbody>
</table>

**Command Default**

None

**Command Modes**

Global Configuration

**Command History**

<table>
<thead>
<tr>
<th>Release</th>
<th>Modification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release 4.3.1</td>
<td>This command was introduced.</td>
</tr>
</tbody>
</table>

**Usage Guidelines**

No specific guidelines impact the use of this command.

**Task ID**

<table>
<thead>
<tr>
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<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>ppp</td>
<td>read, write</td>
</tr>
</tbody>
</table>

**Examples**

This example shows how to configure the in-flight-window size for PPPoE sessions in BNG:

```
RP/0/RSP0/CPU0:router(config)# pppoe in-flight-window 200
```

**Related Commands**

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>pppoe sessions limit</td>
<td>Configures a limit for PPPoE sessions for a PPPoE BBA-Group in BNG.</td>
</tr>
<tr>
<td>Command</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>pppoe sessions throttle</td>
<td>Configures a throttle value for PPPoE sessions for a PPPoE BBA-Group in BNG.</td>
</tr>
</tbody>
</table>
show pppoe interfaces

To display a summary of the protocol state for the specified PPPoE interface filtered by circuit-id, remote-id, interface or location, use the **show pppoe interfaces** command in the EXEC mode.

**show pppoe interfaces [circuit-id circuit_id | remote-id remote_id | access-interface type interface-path-id | location node | all]**

### Syntax Description

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>circuit-id</td>
<td>Shows information for a given circuit-id.</td>
</tr>
<tr>
<td>circuit_id</td>
<td>Specifies the circuit-id to show data for.</td>
</tr>
<tr>
<td>remote-id</td>
<td>Shows information for a given remote-id.</td>
</tr>
<tr>
<td>remote_id</td>
<td>Specifies the remote-id to show data for.</td>
</tr>
<tr>
<td>access-interface</td>
<td>Shows PPPoE status for all sessions on a single access interface.</td>
</tr>
<tr>
<td>type</td>
<td>Interface type. For more information, use the question mark (?) online help function.</td>
</tr>
<tr>
<td>interface-path-id</td>
<td>Physical interface or virtual interface.</td>
</tr>
<tr>
<td>Note</td>
<td>Use the <strong>show interfaces</strong> command to see a list of all interfaces currently configured on the router. For more information about the syntax for the router, use the question mark (?) online help function.</td>
</tr>
<tr>
<td>location</td>
<td>Shows PPPoE status for all sessions at a location.</td>
</tr>
<tr>
<td>node</td>
<td>Specifies the fully qualified location specification.</td>
</tr>
<tr>
<td>all</td>
<td>Shows PPPoE status for all sessions.</td>
</tr>
</tbody>
</table>

### Command Default

None

### Command Modes

EXEC mode

### Command History

<table>
<thead>
<tr>
<th>Release</th>
<th>Modification</th>
</tr>
</thead>
<tbody>
<tr>
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</table>
Usage Guidelines

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<table>
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<tr>
<th>Task ID</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>ppp</td>
<td>read</td>
</tr>
</tbody>
</table>

Examples

This is a sample output of the show pppoe interfaces command:

RP/0/RSP0/CPU0:router# show pppoe interfaces Loopback1
Loopback1 is Complete
Session id: 1
Access interface: Loopback1
BBA-Group: blue
Local MAC address: aabb.cc00.8301
Remote MAC address: aabb.cc00.8201
Tags:
Service-Name: service1
Max-Payload: 1500
IWF
Circuit-ID: circuit1
Remote-ID: remotel
show pppoe limits

To show the PPPoE session limit information, use the `show pppoe limits` command in the EXEC mode.

```
show pppoe limits [active] [access-interface type interface-path-id | bba-group bba-group-name | location node]
```

### Syntax Description

<table>
<thead>
<tr>
<th>Syntax</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>active</code></td>
<td>Shows only those throttles that are currently blocking packets.</td>
</tr>
<tr>
<td><code>access-interface</code></td>
<td>Shows PPPoE status for all sessions on a single access interface.</td>
</tr>
<tr>
<td><code>type</code></td>
<td>Interface type. For more information, use the question mark (?) online help function.</td>
</tr>
<tr>
<td><code>interface-path-id</code></td>
<td>Physical interface or virtual interface.</td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong> Use the <code>show interfaces</code> command to see a list of all interfaces currently configured on the router. For more information about the syntax for the router, use the question mark (?) online help function.</td>
</tr>
<tr>
<td><code>bba-group</code></td>
<td>Shows throttles for all interfaces with a given bba-group.</td>
</tr>
<tr>
<td><code>bba_group_name</code></td>
<td>Specifies the bba-group to show throttle for.</td>
</tr>
<tr>
<td><code>location</code></td>
<td>Shows PPPoE status for all sessions at a location.</td>
</tr>
<tr>
<td><code>node</code></td>
<td>Specifies the fully qualified location specification.</td>
</tr>
</tbody>
</table>

### Command Default

None

### Command Modes

EXEC mode

### Command History

<table>
<thead>
<tr>
<th>Release</th>
<th>Modification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release 4.2.0</td>
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</tr>
</tbody>
</table>

### Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes the proper task IDs. If you suspect user group assignment is preventing you from using a command, contact your AAA administrator for assistance.
### Task ID

<table>
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<tr>
<th>Task ID</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>ppp</td>
<td>read</td>
</tr>
</tbody>
</table>

### Examples

This is a sample output of the `show pppoe limits` command:

```
RP/0/RSP0/CPU0:router# show pppoe limits active access-interfaces loopback 45
BBA-Group TEST
--------------------------
Card session limit information:
Maximum session limit: 50 sessions
Warning threshold: 40 sessions
State #Sessions
----- ---------
Block 50
Access-interface session limits not configured.
MAC session limits not configured.
MAC-IWF session limits not configured.
Circuit-ID session limit information:
Maximum session limit: 50 sessions
Warning threshold: 40 sessions
Circuit-ID State #Sessions
---------- ----- ---------
circuit_id1 Block 50
 circuit_id_field which_can_be_up_to_sixty_four_chars_long Warn 45
circuit_id2 OK 32
circuit_id,/* OK 1
BBA-Group TEST2
--------------------------
Card session limits not configured.
Access-interfaces session limit information:
Maximum session limit: 50 sessions
Warning threshold: 40 sessions
Access-Interface State #Sessions
--------------------- ----- 
GE0/1/0/0/0 Block 50
 GE0/1/0/0/1 Warn 45
 GE0/1/0/0/2 OK 32
 GE0/1/0/0.12 OK 1
MAC session limits not configured.
MAC-IWF session limits not configured.
Circuit-ID session limits not configured.
```

### Related Commands

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>show pppoe throttles, on page 18</td>
<td>Shows the throttle information for the PPPoE sessions.</td>
</tr>
<tr>
<td>show pppoe interfaces, on page 9</td>
<td>Shows a summary of the protocol state for the specified PPPoE interface filtered by circuit-id, remote-id, interface, or location.</td>
</tr>
<tr>
<td>show pppoe statistics, on page 13</td>
<td>Shows the counters for packets received and sent by the PPPoE sessions.</td>
</tr>
<tr>
<td>show pppoe summary, on page 16</td>
<td>Shows summary information of the PPPoE sessions.</td>
</tr>
</tbody>
</table>
show pppoe statistics

To show the counters for packets received and sent by the PPPoE sessions, use the `show pppoe statistics` command in the EXEC mode mode.

```
show pppoe statistics {access-interface|type|interface-path-id|internal | { location|node}| location| node}
```

### Syntax Description

<table>
<thead>
<tr>
<th>Syntax</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>access-interface</code></td>
<td>Shows PPPoE status for all sessions on a single access interface.</td>
</tr>
<tr>
<td><code>type</code></td>
<td>Interface type. For more information, use the question mark (?) online help function.</td>
</tr>
<tr>
<td><code>interface-path-id</code></td>
<td>Physical interface or virtual interface.</td>
</tr>
<tr>
<td><code>internal</code></td>
<td>Shows internal PPPoE statistics.</td>
</tr>
<tr>
<td><code>location</code></td>
<td>Shows PPPoE status for all sessions at a location.</td>
</tr>
<tr>
<td><code>node</code></td>
<td>Specifies the fully qualified location specification.</td>
</tr>
</tbody>
</table>

### Command Default

None

### Command Modes

EXEC mode

### Command History

<table>
<thead>
<tr>
<th>Release</th>
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### Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes the proper task IDs. If you suspect user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

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</thead>
<tbody>
<tr>
<td>ppp</td>
<td>read</td>
</tr>
</tbody>
</table>
This is the sample output of the `show pppoe statistics` command:

```
RP/0/RSP0/CPU0:router# show pppoe statistics access-interfaces Loopback 156

Packets Sent Received Dropped
----------------------------------------
PADI 0 3723 18
PADO 3182 0 0
PADR 0 1732 93
PADS (success) 1601 0 0
PADS (error) 38 0 0
PADT 158 552 9
Session-stage 0 18 17
Other 0 2 2
----- ----- ----- 
TOTAL 3979 6063 139

RP/0/RSP0/CPU0:router# show pppoe statistics location 0/2/cpu0

Packets Sent Received Dropped
----------------------------------------
PADI 0 3723 18
PADO 3182 0 0
PADR 0 1732 93
PADS (success) 1601 0 0
PADS (error) 38 0 0
PADT 158 552 9
Session-stage 0 18 17
Other 0 2 2
----- ----- ----- 
TOTAL 3979 6063 139

Packet Error Count
----------------------------------------
No interface handle 1
No packet payload 1
No packet mac-address 1
Invalid version-type value 3
Bad packet length 7
Unknown interface 11
PADO received
ed 1
PADS received 1
Unknown packet type received 1
Unexpected Session-ID in packet 1
No Service-Name Tag 11
PADT for unknown session 13
PADT with wrong peer-mac 7
PADT before PADS sent 1
Session-stage packet for unknown session 13
Session-stage packet with wrong mac 19
Session-stage packet with no error 1
Tag too short 1
Bad tag-length field 1
Multiple Service-Name tags 1
Multiple Max-Payload tags 1
Invalid Max-Payload tag 1
Multiple Vendor-specific tags 1
Unexpected AC-Name tag 1
Unexpected error tags 3
Unknown tag received 1
No IANA code in vendor tag 1
Invalid IANA code in vendor tag 1
Vendor tag too short 1
Bad vendor tag length field 1
Multiple Host-Uniq tags 1
Multiple Circuit-ID tags 1
Multiple Remote-ID tags 1
Invalid DSL tag 1
Multiple of the same DSL tag 1
```
Invalid IWF tag 1
Multiple IWF tags 1
Unknown vendor-tag 1
No space left in packet 1
Duplicate Host-Uniq tag received 1
Packet too long 1
-----
TOTAL 140
**show pppoe summary**

To show the summary information for the PPPoE sessions, use the **show pppoe summary** command in the EXEC mode mode.

```
show pppoe summary {per-access-interface| total} { location| node}
```

<table>
<thead>
<tr>
<th>Syntax Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>per-access-interface</td>
<td>Summarizes PPPoE sessions running on each access-interface.</td>
</tr>
<tr>
<td>total</td>
<td>Shows the overall summary information of access-interfaces and sessions.</td>
</tr>
<tr>
<td>location</td>
<td>Shows PPPoE status for all sessions at a location.</td>
</tr>
<tr>
<td>node</td>
<td>Specifies the fully qualified location specification.</td>
</tr>
</tbody>
</table>

**Command Default**
None

**Command Modes**
EXEC mode

**Command History**

<table>
<thead>
<tr>
<th>Release</th>
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</thead>
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**Usage Guidelines**
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**Task ID**

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</thead>
<tbody>
<tr>
<td>ppp</td>
<td>read</td>
</tr>
</tbody>
</table>

**Examples**
This is the sample output of the **show pppoe summary** command:

```
RP/0/RSP0/CPU0:router# show pppoe summary per-access-interfaces location 0/1/cpu0

COMPLETE: Complete PPPoE Sessions
INCOMPLETE: PPPoE sessions being brought up or torn down
Interface BBA-Group READY TOTAL COMPLETE INCOMPLETE
==============================================================
Fa0/1/0/0 blue Y 20 18 2
```
Fa0/1/0/1.1 red Y 128000 100010 27990
Fa0/1/0/1.2 green N 0 0 0
----------------------------------
TOTAL 2 128020 100028 27992
RP/0/0/CPU0:demo#show pppoe summary total location 0/5/cpu0
----------------------------------
Configured Access Interfaces
----------------------------------
Ready 300
Not-Ready 15
----------------------------------
TOTAL 315
----------------------------------
PPPoE Sessions
----------------------------------
Complete 3812
Incomplete 302
----------------------------------
TOTAL 4114
----------------------------------
Flow Control
----------------------------------
Limit 1000
In Flight 12
Dropped 212
Disconnected 6
Successful 1021
show pppoe throttles

To show the throttle information for the PPPoE sessions, use the `show pppoe throttles` command in the EXEC mode mode.

```
show pppoe throttles [active] [access-interface type interface-path-id] [bba-group bba-group-name] [location node]
```

**Syntax Description**

<table>
<thead>
<tr>
<th>Syntax</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>active</td>
<td>Shows only those throttles that are currently blocking packets.</td>
</tr>
<tr>
<td>access-interface</td>
<td>Shows PPPoE status for all sessions on a single access interface.</td>
</tr>
<tr>
<td>type</td>
<td>Interface type. For more information, use the question mark (?) online help function.</td>
</tr>
<tr>
<td>interface-path-id</td>
<td>Physical interface or virtual interface.</td>
</tr>
<tr>
<td>Note</td>
<td>Use the <code>show interfaces</code> command to see a list of all interfaces currently configured on the router. For more information about the syntax for the router, use the question mark (?) online help function.</td>
</tr>
<tr>
<td>bba-group</td>
<td>Shows throttles for all interfaces with a given bba-group.</td>
</tr>
<tr>
<td>bba_group_name</td>
<td>Specifies the bba-group name.</td>
</tr>
<tr>
<td>location</td>
<td>Shows PPPoE status for all sessions at a location.</td>
</tr>
<tr>
<td>node</td>
<td>Specifies the fully qualified location specification.</td>
</tr>
</tbody>
</table>

**Command Default**

None

**Command Modes**

EXEC mode

**Command History**

<table>
<thead>
<tr>
<th>Release</th>
<th>Modification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release 4.2.0</td>
<td>This command was introduced.</td>
</tr>
</tbody>
</table>

**Usage Guidelines**

To use this command, you must be in a user group associated with a task group that includes the proper task IDs. If you suspect user group assignment is preventing you from using a command, contact your AAA administrator for assistance.
This is the sample output of the `show pppoe throttles` command:

```
RP/0/RSP0/CPU0:router# show pppoe throttles location 0/2/cpu0

BBA-Group TEST
--------------
MAC throttle information:
Max packets per request period: 5
Request period duration: 20s
Blocking period duration: 5s
Time Since
MAC Address State left reset PADI PADR
----------- ----- ---- ----- ---- ----
aabb.ccdd.1123 Idle 30s 16s 0 0
7582.1352.e29a Monitor 3s 20s 5 5
7582.1352.e29a Block 4s 17s 6 5
MAC Access-interface throttle information:
Max packets per request period: 5
Request period duration: 20s
Blocking period duration: 5s
Time Since
Access-Int MAC Address State left reset PADI PADR
---------- ----------- ----- ---- ----- ---- ----
GE0/1/0/0 aabb.ccdd.1123 Idle 30s 16s 0 0
GE0/1/0/0 7582.1352.e29a Monitor 3s 20s 5 5
GE0/1/0/0 7582.1352.e29a Block 4s 17s 6 5
MAC IWF throttle information:
Max packets per request period: 5
Request period duration: 20s
Blocking period duration: 5s
Time Since
MAC Address State left reset PADI PADR
----------- ----- ---- ----- ---- ----
aabb.ccdd.1123 Idle 30s 16s 0 0
7582.1352.e29a Mon 3s 20s 5 5
7582.1352.e29a Block 4s 17s 6 5
BBA-Group TEST2
--------------
MAC throttling is not configured.
MAC Access-interface throttling is not configured.
MAC IWF throttling is not configured.
```
show pppoe throttles