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Managing PPPoE authorization by VLAN and Service Name



The Service-Name tag is available from DPI version 12.3

The Service-Name tag is necessary for establishing the authorization procedure according to RFC requirements; SSG fully supports this tag in compliance with all requirements.

The tag indicates that a service name follows. The TAG_VALUE field is a string of UTF-8 characters without a terminating NULL character. A zero value of the TAG_LENGTH field is used to indicate acceptability of any service. An example of using the Service-Name tag could be indicating the name ISP2, class, or quality of service.

Management is performed separately for each VLAN id.

`fdpi_cli help vlan group` — call the guide for managing Service-Name.

Displaying Group Properties

`fdpi_cli vlan group 0 show all` — display all properties for all groups

`fdpi_cli vlan group <id> show all` — display all properties for a group with a specific id. Here id is the VLAN number for which to display Service-Name information.

Example: `fdpi_cli vlan group 1150 show all`

`fdpi_cli vlan group <id> show auth pppoe` — show PPPoE authorization policy

`fdpi_cli vlan group <id> show auth all` — show policy for all authorization protocols

`fdpi_cli vlan group <id> auth pppoe show service-name all` — show the policy for using service names for authorization via PPPoE

Allowing Authorization

`fdpi_cli vlan group <id> allow auth pppoe` — allow authorization via PPPoE in a specific VLAN

`fdpi_cli vlan group <id> auth pppoe allow add service-name name='<service_name>'` — allow authorization via PPPoE for a specific Service-Name. When establishing a PPPoE session during the Discovery stage after receiving a PADI packet, a temporary delay (delay parameter) is permissible before sending a PADO packet. Valid values for the delay parameter: 0, 1, 2, 3, 4, 5.

`fdpi_cli vlan group <id> auth pppoe allow add service-name name='<service_name>' delay=<delay>` — allow authorization via PPPoE for a specific Service-Name with a delay (measured in seconds) **Example:** `fdpi_cli vlan group 1150 auth pppoe`

```
allow add service-name name='test1' delay=5
```

Denying Authorization

To deny authorization for a specific VLAN, first remove all existing rules for that VLAN. That is, to allow specific Service-Names, first deny all and only then allow specific tags.

```
fdpi_cli vlan group <id> deny auth pppoe — deny authorization via PPPoE in a specific VLAN
```

```
fdpi_cli vlan group <id> auth pppoe deny add service-name name='<service_name>' — deny authorization via PPPoE for a specific Service-Name
```

Example: allow authorization only for specific Service-Names:

```
fdpi_cli vlan group 1250 deny auth pppoe
fdpi_cli vlan group 1250 auth pppoe allow add service-name name='test2'
fdpi_cli vlan group 1250 auth pppoe allow add service-name name='test3'
delay=3
```

Example: deny authorization only for specific Service-Names:

```
fdpi_cli vlan group 350 allow auth pppoe
fdpi_cli vlan group 350 auth pppoe deny add service-name name='test-sname'
fdpi_cli vlan group 350 auth pppoe deny add service-name name='test-sname-too'
```

The sequence of commands is important when entering rules. For example, if a general authorization denial is entered after allowing rules, then authorization with any Service-Name in vlan 1250 will be unavailable:

```
fdpi_cli vlan group 1250 auth pppoe allow add service-name name='test2'
fdpi_cli vlan group 1250 auth pppoe allow add service-name name='test3'
delay=3
fdpi_cli vlan group 1250 deny auth pppoe
```

This restriction also applies to individual deny/allow rules.

Example: allow authorization with Service-Name "test-sname".

```
fdpi_cli vlan group 350 auth pppoe deny add service-name name='test-sname'
fdpi_cli vlan group 350 auth pppoe allow add service-name name='test-sname'
```

Example: deny authorization with Service-Name "test-sname".
fdpi_cli vlan group 350 auth pppoe deny add service-name name='test-sname'
fdpi_cli vlan group 350 auth pppoe allow add service-name name='test-sname'
fdpi_cli vlan group 350 auth pppoe deny add service-name name='test-sname'

Other Commands

```
fdpi_cli vlan group <id> auth pppoe delete service-name name='<service_name>' — delete Service-Name and its properties
```

```
fdpi_cli vlan group 0 delete all — delete all rules for all configured VLANs (equivalent to processing VLAN by default)
```