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Configuring service loopback groups

About service loopback groups

A service loopback group contains one or multiple Ethernet ports for looping packets sent out by the device back to the device. This feature must work with other features, such as GRE. Member ports in a service loopback group are load balanced.

A service loopback group provides one of the following services:

- **Tunnel**—Supports unicast tunnel traffic.
- **Multicast tunnel**—Supports multicast tunnel traffic.
- **Multiport**—Supports multiport ARP traffic.
- **VSI gateway**—Supports VSI gateway traffic.

Restrictions and guidelines: Service loopback group configuration

When you add member ports to a service loopback group, follow these restrictions and guidelines:

- Make sure the ports support the service type of the service loopback group and are not members of any other service loopback group.
- The configuration on a port is removed when it is assigned to the service loopback group.
- To avoid IRF split, do not assign a physical interface to the service loopback group if that interface is the only member interface of an IRF port.
- In an IRF 3.1 system, ports on PEXs cannot be assigned to service loopback groups.
- For correct traffic processing, make sure the service loopback group has a minimum of one member port when it is being used by a feature.
- On an S6820-56HF switch, do not assign any of the 48 SFP28 ports to a service loopback group. Assigning the SFP28 ports to a service loopback group reduces the traffic transmission rate of the switch.

When you apply service loopback groups to features, follow these restrictions and guidelines:

- One service loopback group can be used by multiple features.
- You cannot change the service type of a service loopback group.
- Do not delete a service loopback group that is being used by a feature.

Configuring a service loopback group

1. Enter system view.

```
system-view
```

2. Create a service loopback group and specify its service type.

```
service-loopback group group-id type { { multicast-tunnel | tunnel } * | multiport | vsi-gateway }
```

You can configure only one service loopback group for a service type.

3. Enter Layer 2 Ethernet interface view.

```
interface interface-type interface-number
```

4. Assign the port to the service loopback group.

```
port service-loopback group group-id
```

By default, a port does not belong to a service loopback group.

You can assign a maximum of 32 ports to a service loopback group.

Display and maintenance commands for service loopback groups

Execute **display** commands in any view.

Task	Command
Display information about service loopback groups.	display service-loopback group [<i>group-id</i>]

Service loopback group configuration examples

Example: Configuring a service loopback group

Network configuration

All Ethernet ports on the device support the tunnel service. Assign Ten-GigabitEthernet 1/0/1 through Ten-GigabitEthernet 1/0/3 to a service loopback group to loop GRE packets sent out by the device back to the device.

Procedure

Create service loopback group 1, and specify its service type as **tunnel**.

```
<Sysname> system-view
```

```
[Sysname] service-loopback group 1 type tunnel
```

Assign Ten-GigabitEthernet 1/0/1 through Ten-GigabitEthernet 1/0/3 to service loopback group 1.

```
[Sysname] interface ten-gigabitethernet 1/0/1
```

```
[Sysname-Ten-GigabitEthernet1/0/1] port service-loopback group 1
```

All configurations on the interface will be lost. Continue?[Y/N]:y

```
[Sysname-Ten-GigabitEthernet1/0/1] quit
```

```
[Sysname] interface ten-gigabitethernet 1/0/2
```

```
[Sysname-Ten-GigabitEthernet1/0/2] port service-loopback group 1
```

All configurations on the interface will be lost. Continue?[Y/N]:y

```
[Sysname-Ten-GigabitEthernet1/0/2] quit
```

```
[Sysname] interface ten-gigabitethernet 1/0/3
```

```
[Sysname-Ten-GigabitEthernet1/0/3] port service-loopback group 1
```

All configurations on the interface will be lost. Continue?[Y/N]:y

```
[Sysname-Ten-GigabitEthernet1/0/3] quit
```

Create the interface Tunnel 1 and set it to GRE mode. The interface will automatically use service loopback group 1.

```
[Sysname] interface tunnel 1 mode gre
```

```
[Sysname-Tunnel1]
```