Contents

IRDP commands

The term "interface" in this chapter refers to VLAN interfaces.

ip irdp

Use **ip irdp** to enable IRDP on an interface.

Use **undo ip irdp** to disable IRDP on an interface.

Syntax

> **ip irdp**
>
> **undo ip irdp**

Default

IRDP is disabled on an interface.

Views

Interface view

Predefined user roles

network-admin

Usage guidelines

After IRDP is enabled on an interface, the IRDP configuration takes effect, and the device sends RA messages out of the interface.

Examples

Enable IRDP on VLAN-interface 100.

```
<Sysname> system-view
[Sysname] interface vlan-interface 100
[Sysname-Vlan-interface100] ip irdp
```

ip irdp address

Use **ip irdp address** to specify an IP address to be proxy-advertised by an interface.

Use **undo ip irdp address** to remove the proxy-advertised IP address.

Syntax

> **ip irdp address** *ip-address preference-value*
>
> **undo ip irdp address** [*ip-address*]

Default

No proxy-advertised IP address is specified.

Views

Interface view

Predefined user roles

network-admin

Parameters

ip-address: Specifies an IP address in dotted decimal notation.

preference-value: Specifies the preference for the proxy-advertised IP address, in the range of –2147483648 to 2147483647.

Usage guidelines

You can specify a maximum of four proxy-advertised IP addresses on an interface. An RA sent on an interface includes the IP addresses of the interface and the proxy-advertised IP addresses.

If you do not specify any IP address for the **undo** command, the command removes the proxy-advertised IP addresses from all interfaces.

Examples

Specify the IP address 192.168.0.8 and its preference 1600 for VLAN-interface 100 to proxy-advertise.

```
<Sysname> system-view
[Sysname] interface vlan-interface 100
[Sysname-Vlan-interface100] ip irdp address 192.168.0.8 1600
```

Related commands

ip irdp

ip irdp lifetime

Use **ip irdp lifetime** to set the lifetime of IP addresses advertised on an interface.

Use **undo ip irdp lifetime** to restore the default.

Syntax

ip irdp lifetime *lifetime-value*

undo ip irdp lifetime

Default

The lifetime is 1800 seconds.

Views

Interface view

Predefined user roles

network-admin

Parameters

lifetime-value: Specifies the lifetime in seconds, in the range of 4 to 9000.

Usage guidelines

The lifetime of IP addresses cannot be shorter than the maximum advertising interval on an interface.

The specified lifetime applies to all advertised IP addresses, including the IP addresses of the interface and proxy-advertised IP addresses on the interface.

Examples

Set the lifetime of IP addresses advertised on VLAN-interface 100 to 2000 seconds.

```
<Sysname> system-view
[Sysname] interface vlan-interface 100
[Sysname-Vlan-interface100] ip irdp lifetime 2000
```

ip irdp interval

Use **ip irdp interval** to set the maximum and minimum intervals for advertising RAs on an interface.

Use **undo ip irdp interval** to restore the default.

Syntax

ip irdp interval *max-interval-value* [*min-interval-value*]

undo ip irdp interval

Default

The maximum advertising interval is 600 seconds, and the minimum advertising interval is 3/4 of the maximum advertising interval.

Views

Interface view

Predefined user roles

network-admin

Parameters

max-interval-value: Specifies the maximum advertising interval in seconds, in the range of 4 to 1800.

min-interval-value: Specifies the minimum advertising interval in seconds, in the range of 3 to *max-interval-value*.

Usage guidelines

The device periodically broadcasts or multicasts an RA at a random interval between the maximum and minimum advertising interval.

The maximum advertising interval cannot be longer than the lifetime of advertised IP addresses. Otherwise, the lifetime is automatically adjusted to a value three times the maximum interval.

Examples

On VLAN-interface 100, set the maximum advertising interval to 500 seconds and the minimum advertising interval to 300 seconds.

```
<Sysname> system-view
[Sysname] interface vlan-interface 100
[Sysname-Vlan-interface100] ip irdp interval 500 300
```

Related commands

- **ip irdp**
- **ip irdp lifetime**

ip irdp multicast

Use **ip irdp multicast** to specify the multicast address 224.0.0.1 as the destination IP address of RAs sent on an interface.

Use **undo ip irdp multicast** to restore the default.

Syntax

ip irdp multicast

undo ip irdp multicast

Default

The destination IP address is 255.255.255.255.

Views

Interface view

Predefined user roles

network-admin

Examples

Specify the multicast address 224.0.0.1 as the destination IP address for VLAN-interface 100 to send RAs.

```
<Sysname> system-view
[Sysname] interface vlan-interface 100
[Sysname-Vlan-interface100] ip irdp multicast
```

Related commands

ip irdp

ip irdp preference

Use **ip irdp preference** to specify the preference of advertised primary and secondary IP addresses on an interface.

Use **undo ip irdp preference** to restore the default.

Syntax

ip irdp preference *preference-value*

undo ip irdp preference

Default

The preference of advertised IP addresses is 0.

Views

Interface view

Predefined user roles

network-admin

Parameters

preference-value: Specifies the preference in the range of –2147483648 to 2147483647. A larger value represents a higher preference. To request neighboring hosts to not use any advertised IP address as the default gateway, set the value to the minimum value (–2147483648).

Examples

Specify preference 1 for IP addresses advertised on VLAN-interface 100.

```
<Sysname> system-view
[Sysname] interface vlan-interface 100
[Sysname-Vlan-interface100] ip irdp preference 1
```

Related commands

      ip irdp