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User isolation commands

display user-isolation statistics

Use **display user-isolation statistics** to display user isolation statistics for a VLAN or for all VLANs.

Syntax

```
display user-isolation statistics [ vlan vlan-id ]
```

Views

Any view

Predefined user roles

network-admin

network-operator

Parameters

vlan *vlan-id*: Specifies a VLAN by its ID in the range of 1 to 4094. If you do not specify a VLAN, this command displays user isolation statistics for all VLANs.

Examples

Display user isolation statistics for all VLANs.

```
<Sysname> display user-isolation statistics
Number of VLANs enabled with user isolation: 2
Number of VLANs disabled with user isolation: 1
```

VLAN	State	Drops	Permit unicast	Permitted MAC list
4	Enabled	0	Y	N/A
6	Disabled	0	N	0023-89a2-3d4d 0033-89a2-3d4a
5	Enabled	0	Y	N/A

Table 1 Command output

Field	Description
VLAN	VLAN ID.
State	Status of user isolation for the VLAN: <ul style="list-style-type: none">• Enabled.• Disabled.
Drops	Number of dropped packets in the VLAN.
Permit unicast	Whether unicast packets are permitted among users in the VLAN: <ul style="list-style-type: none">• Y—Yes. Only broadcast and multicast packets are isolated.• N—No. Unicast, broadcast, and multicast packets are all isolated.
Permitted MAC list	Permitted MAC address list in the VLAN.

Related commands

- **user-isolation vlan enable**
- **user-isolation vlan permit-mac**

reset user-isolation statistics

Use **reset user-isolation statistics** to clear user isolation statistics for a VLAN or for all VLANs.

Syntax

```
reset user-isolation statistics [ vlan vlan-id ]
```

Views

User view

Predefined user roles

network-admin

Parameters

vlan *vlan-id*: Specifies a VLAN by its ID in the range of 1 to 4094. If you do not specify a VLAN, this command clears user isolation statistics for all VLANs.

Examples

```
# Clear user isolation statistics for VLAN 1.  
<Sysname> reset user-isolation statistics vlan 1
```

Related commands

- **user-isolation vlan enable**
- **user-isolation vlan permit-mac**

user-isolation enable

Use **user-isolation enable** to enable SSID-based user isolation.

Use **undo user-isolation enable** to restore the default.

Syntax

```
user-isolation enable  
undo user-isolation enable
```

Default

SSID-based user isolation is disabled.

Views

Service template view

Predefined user roles

network-admin

Examples

```
# Enable SSID-based user isolation.  
<Sysname> system-view  
[Sysname] wlan service-template 1  
[Sysname-wlan-st-1] user-isolation enable
```

user-isolation permit-broadcast

Use **user-isolation permit-broadcast** to permit broadcast and multicast traffic sent from wired users to wireless users.

Use **undo user-isolation permit-broadcast** to restore the default.

Syntax

user-isolation permit-broadcast

undo user-isolation permit-broadcast

Default

The device does not forward broadcast or multicast traffic sent from wired users to wireless users in the VLANs where user isolation is enabled.

Views

System view

Predefined user roles

network-admin

Usage guidelines

Isolate broadcast and multicast packets of wired users from wireless users only in the following situations:

- The wired and wireless users belong to the same VLAN.
- The AC that the users access is an IRF fabric.

Examples

```
# Permit broadcast and multicast traffic sent from wired users to wireless users.
```

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

```
[Sysname] user-isolation permit-broadcast
```

Related commands

user-isolation vlan enable

user-isolation vlan enable

Use **user-isolation vlan enable** to enable user isolation for a list of VLANs.

Use **undo user-isolation vlan enable** to disable user isolation for a list of VLANs.

Syntax

user-isolation vlan *vlan-list* enable [permit-unicast]

undo user-isolation vlan *vlan-list* enable

Default

User isolation is disabled for a VLAN.

Views

System view

Predefined user roles

network-admin

Parameters

vlan-list: Specifies a space-separated list of up to 10 VLAN items. Each VLAN item specifies a VLAN by VLAN ID or specifies a range of VLANs in the form of *vlan-id1* to *vlan-id2*. The value range for the VLAN IDs is 1 to 4094. If you specify a VLAN range, the value for the *vlan-id2* argument must be greater than the value for the *vlan-id1* argument.

permit-unicast: Permits unicast packets among users. If you do not specify this keyword, unicast packets are isolated among users together with broadcast and multicast packets.

Usage guidelines

To avoid network disconnection to the external network, add the MAC address of the gateway to the permitted MAC address list. To add a permitted MAC address, use the **user-isolation vlan permit-mac** command.

If you execute the **user-isolation vlan enable** command multiple times, the device accumulates the specified VLANs. If you execute the **user-isolation vlan enable** command multiple times for a VLAN, the most recent configuration takes effect.

Examples

```
# Enable user isolation for VLAN 1.
<Sysname> system-view
[Sysname] user-isolation vlan 1 enable
```

user-isolation vlan permit-mac

Use **user-isolation vlan permit-mac** to configure the permitted MAC address list for a list of VLANs.

Use **undo user-isolation vlan enable** to remove a list of permitted MAC addresses for VLANs.

Syntax

```
user-isolation vlan vlan-list permit-mac mac-list
undo user-isolation vlan vlan-list permit-mac { mac-list | all }
```

Default

No permitted MAC address list is specified for a VLAN.

Views

System view

Predefined user roles

network-admin

Parameters

vlan-list: Specifies a space-separated list of up to 10 VLAN items. Each VLAN item specifies a VLAN by VLAN ID or specifies a range of VLANs in the form of *vlan-id1* to *vlan-id2*. The value range for the VLAN IDs is 1 to 4094. If you specify a VLAN range, the value for the *vlan-id2* argument must be greater than the value for the *vlan-id1* argument.

mac-list: Specifies a space-separated list of up to 16 MAC address items. Each MAC address item specifies a MAC address in the form of H-H-H. The MAC addresses cannot be broadcast or multicast MAC addresses.

all: Specifies all permitted MAC addresses.

Usage guidelines

Packets from users of the permitted MAC addresses are not isolated in their corresponding VLANs.

If you execute the **user-isolation vlan permit-mac** command multiple times, the device accumulates the specified permitted MAC addresses. The number of permitted MAC addresses cannot exceed 16 for a VLAN.

Examples

```
# Specify permitted MAC addresses 00bb-ccdd-eeff and 0022-3344-5566 for VLAN 1.
<Sysname> system-view
```

```
[Sysname] user-isolation vlan 1 permit-mac 00bb-ccdd-eeff 0022-3344-5566
```

Related commands

- **display user-isolation statistics**
- **user-isolation vlan enable**