Reporter Configuration Mode Commands

Reporter configuration mode allows you to configure a reporter. A reporter is a software monitoring agent that you associate with critical interfaces and virtual routers (VRs). The reporter monitors the state of the critical interfaces and causes the associated VRs to fail over when the interfaces go down. You can also use a reporter to synchronize the state of associated VRs to prevent asymmetric flows. You can configure a maximum of 128 reporters on a CSS.

To access reporter configuration mode, enter the **reporter** command in global configuration mode. The prompt changes to (config-reporter [*reporter_name*]). For information about commands available in this mode, see the following commands.

In global configuration mode, use the **no** form of this command to delete an existing reporter.

(config) reporter *reporter_name*

(config) no reporter *reporter_name*

Syntax Description

reporter_name	Name of a reporter that you want to create. Enter an unquoted text string with no spaces from 1 to 31 characters. To see a list of existing reporter names, enter: `reporter ?`

(config-reporter) active

To activate a newly configured reporter or to reactivate a suspended reporter, use the **active** command. A new reporter remains in the Suspended state until you activate it.

active

Usage Guidelines

Use this command to initially activate a newly configured reporter or to reactivate a reporter after you have suspended it with the **suspend** command.

Related Commands

show reporter
(config) reporter
(config-reporter) phy
(config-reporter) suspend
(config-reporter) type
(config-reporter) vrid

(config-reporter) phy

To configure one or more physical interfaces that you want a reporter to monitor, use the **phy** command. Use the **no** form of this command to remove an interface and all of its attributes from the reporter.

phy *interface_name*

no phy *interface_name*

Syntax Description

interface_name	Name of the physical interface that you want to monitor. Enter an interface name in interface port format (for example, e1 on a CSS 11501) or slot/port format (for example, 1/1 on a CSS 11503 and CSS 11506).

Usage Guidelines

This command allows you to configure a maximum of 128 interfaces on a reporter of type **critical-phy-all-up** or **critical-phy-any-up**.

If you associate more than one reporter with the same VR, we recommend that you do not configure the same physical interfaces (ports) on two different reporter types (for example, ports 1/1 and 1/2 on a reporter of type **critical-phy-all-up** and ports 1/1 and 1/2 on a reporter of type **critical-phy-any-up**). Otherwise, unexpected VR failovers may occur.

Related Commands

show reporter
(config) reporter
(config-reporter) type

(config-reporter) vrid
(config-reporter) active
(config-reporter) suspend

(config-reporter) suspend

To suspend a reporter and stop it from monitoring configured critical interfaces or VRs, use the **suspend** command.

suspend

Usage Guidelines

Use this command to temporarily stop using a reporter or to change a reporter configuration. Once you have made the configuration changes and want to reactivate the reporter, enter the **active** command.

Related Commands

show reporter
(config) reporter
(config-reporter) active
(config-reporter) phy
(config-reporter) type
(config-reporter) vrid

(config-reporter) type

To configure the reporter type, use the **type** command. To remove a reporter type and all of its attributes, use the **no** form of this command.

type *reporter_type*

no type

Syntax Description

reporter_type	You can configure the following reporter types: • **vrid-peer** - Monitors the states of associated VRs and ensures that the VR states are synchronized. If one VR goes down, the reporters state goes down and causes any other associated VRs to go down. • **critical-phy-all-up** - Monitors the states of configured critical physical interfaces. If any critical interface goes down, the reporter goes down and mastership of the associated VR transitions from the master CSS to the backup CSS. To prevent a VR failover, all interfaces must remain up. • **critical-phy-any-up** - Monitors the states of configured critical physical interfaces. If all associated critical interfaces go down, the reporter goes down and mastership of the associated VR transitions from the master CSS to the backup CSS. Provided that one critical interface stays up, the reporter and the VR remain up.

Usage Guidelines

You can configure a maximum of 128 reporters of any combination of types on a CSS depending on available memory, with a maximum of four **vrid-peer** types. There is no default reporter type.

You can change the reporter type without removing the attributes associated with the type. For example, you can change the reporter type from **vrid-peer** to **critical-phy-all-up**.

Related Commands

show reporter
(config) reporter
(config-reporter) active
(config-reporter) phy
(config-reporter) suspend
(config-reporter) vrid

(config-reporter) vrid

To configure a VR that you want the reporter to monitor, use the **vrid** command. Use the **no** form of this command to remove a VRID and all of its attributes from the reporter.

vrid *ip_address vrid*

no vrid *ip_address vrid*

Syntax Description

ip_address	Destination network prefix. Enter the IP address in dotted-decimal notation (for example, 192.168.11.1).
vrid	Identifier of an existing VR. Possible values are 1 to 255.

Usage Guidelines

This command allows you to configure a maximum of 64 VRIDs on a reporter of type **vrid-peer**. You cannot configure the same circuit IP address and VRID on more than one reporter.

Related Commands

show reporter
(config) reporter
(config-reporter) active
(config-reporter) phy
(config-reporter) suspend
(config-reporter) type