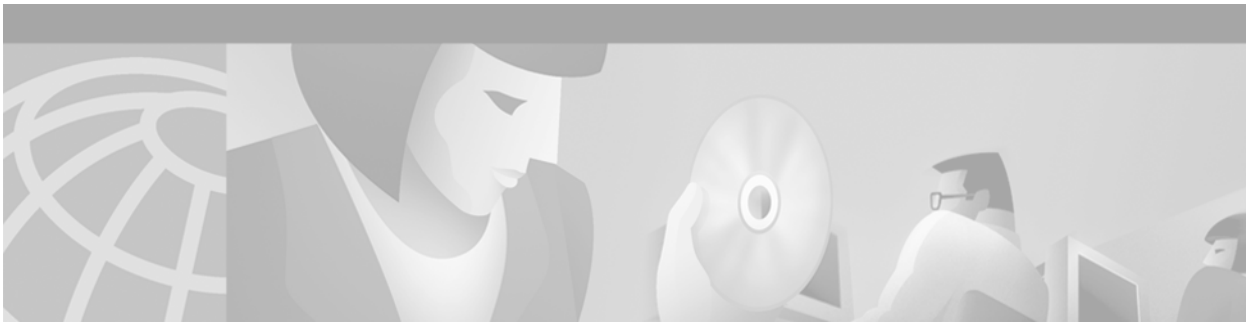

Token Ring Inter-Switch Link Commands

Use the commands in this chapter to configure Token Ring Inter-Switch Link (TRISL) on Cisco routers. To locate related commands that are documented in other chapters, use the command reference master index or search online. For TRISL configuration task information and examples, refer to the "Configuring Token Ring Inter-Switch Link" chapter in the *Cisco IOS Bridging and IBM Networking Configuration Guide*.

For hardware technical descriptions and for information about installing the router interfaces, refer to the hardware installation and maintenance publication for your particular product.

clear drip counters

To clear duplicate ring protocol (DRiP) counters, use the **clear drip counters** privileged EXEC command.

clear drip counters

Syntax Description

This command has no arguments or keywords.

Defaults

No default behavior or values.

Command Modes

Privileged EXEC

Command History

Release	Modification
11.3(4)T	This command was introduced.

Usage Guidelines

Use the **clear drip counters** command if you want to check whether the router is receiving any packets. The counters will start at 0. If the counters are incrementing, DRiP is active on the router.

Examples

The following example clears DRiP counters:

```
router# clear drip counters
```

Related Commands

Command	Description
encapsulation tr-isl trbrf-vlan	Enables TRISL, a Cisco protocol for interconnecting multiple routers and switches and maintaining Token Ring VLAN information as traffic goes between switches.
show drip	Displays the status of the DRiP database.

encapsulation tr-isl trbrf-vlan

To enable TRISL, a Cisco protocol for interconnecting multiple routers and switches and maintaining Token Ring VLAN information as traffic goes between switches, use the **encapsulation tr-isl trbrf-vlan** subinterface configuration command. To disable the TRISL configuration, use the **no** form of this command.

encapsulation tr-isl trbrf-vlan *vlanid* **bridge-num** *bridge-number*

no encapsulation tr-isl trbrf-vlan *vlanid* **bridge-num** *bridge-number*

Syntax Description

vlanid	Number identifying the VLAN.
bridge-num *bridge-number*	Keyword and bridge number assigned to the ISL trunk. Possible values are 01 to 15.

Defaults

No default behavior or values.

Command Modes

Subinterface configuration

Command History

Release	Modification
11.3(4)T	This command was introduced.

Examples

The following example enables TRISL is on a Fast Ethernet subinterface:

```
interface Fast Ethernet4/0.2
encapsulation tr-isl trbrf-vlan 999 bridge-num 14
```

Related Commands

Command	Description
clear drip counters	Clears DRiP counters.
clear vlan statistics	Removes virtual LAN statistics from any statically or system configured entries.
multiring	Enables collection and use of RIF information.
multiring trcrf-vlan	Creates a pseudoring to terminate the RIF for source-routed traffic and assigns it to a VLAN.
show drip	Displays the status of the DRiP database.
show vlans	Displays virtual LAN subinterfaces.
source-bridge trcrf-vlan	Attaches a TrCRF VLAN to the virtual ring of the router.

multiring trcrf-vlan

To create a pseudoring to terminate the RIF for source-routed traffic and assign it to a VLAN, use the **multiring trcrf-vlan** interface configuration command. To disable the caching of RIFs on the subinterface, use the **no** form of this command.

multiring trcrf-vlan *vlanid* **ring** *ring-number*

no multiring trcrf-vlan *vlanid* **ring** *ring-number*

Syntax Description

vlanid	VLAN ID number.
ring *ring-number*	Keyword and the logical ring number for Token Ring VLANs. Possible values are 01 to 4095.

Defaults

Disabled

Command Modes

Interface configuration

Command History

Release	Modification
11.3(4)T	This command was introduced.

Usage Guidelines

When you use this command, you must also use the **multiring** command to enable the collection and caching of RIFs with routed protocols. The **multiring trcrf-vlan** command must be issued before the **multiring** command.

Examples

In the following example, the **multiring trcrf-vlan** command is used to configure a pseudoring for the subinterface:

```
interface Fast Ethernet4/0.1
  ip address 5.5.5.1 255.255.255.0
  encapsulation tr-isl trbrf-vlan 999 bridge-num 14
  multiring trcrf-vlan 1000 ring 100
   multiring all
```

Related Commands

Command	Description
clear drip counters	Clears DRiP counters.
multiring	Enables collection and use of RIF information.
show drip	Displays the status of the DRiP database.
show rif	Displays the current contents of the RIF cache.
show vlans	Displays virtual LAN subinterfaces.

show drip

To display the status of the DRiP database, use the **show drip** privileged EXEC command.

show drip

Syntax Description

This command has no arguments or keywords.

Defaults

No default behavior or values.

Command Modes

Privileged EXEC

Command History

Release	Modification
11.3(4)T	This command was introduced.

Examples

The following is sample output from the **show drip** command:

```
Router# show drip

DRIP Database for Mgmt Domain Fast Ethernet4/0
---------------------------------------------
Mac Address 0010-A6AE-B440
Vlan     100    Status    30 : l-active, l-config,

Mac Address 0010-2F72-C800
Vlan      20    Status    0C : r-active, r-config,
Vlan    1003    Status    0C : r-active, r-config,

Statistics:
Advertisements received            126
Advertisements processed           1
Advertisements transmitted         131
Last revision transmitted          0x84
Last changed revision transmitted  0x2
```

Related Commands

Command	Description
clear drip counters	Clears DRiP counters.
encapsulation tr-isl trbrf-vlan	Enables TRISL, a Cisco protocol for interconnecting multiple routers and switches and maintaining Token Ring VLAN information as traffic goes between switches.
show vlans	Displays virtual LAN subinterfaces.

source-bridge trcrf-vlan

To attach a TrCRF VLAN to the router's virtual ring, use the **source-bridge trcrf-vlan** privileged EXEC command. To disable the attachment of a VLAN to the router's virtual ring, use the **no** form of this command.

source-bridge trcrf-vlan *vlanid* **ring-group** *ringnum*

no source-bridge trcrf-vlan *vlanid* **ring-group** *ringnum*

Syntax Description

vlanid	VLAN ID number.
ring-group *ringnum*	Keyword and ring number of the virtual ring.

Defaults

No default behavior or values.

Command Modes

Privileged EXEC

Command History

Release	Modification
11.3(4)T	This command was introduced.

Usage Guidelines

The **source-bridge trcrf-vlan** command is required for SRB traffic across a TRISL trunk. Use the **encapsulation tr-isl** command for the subinterface, prior to attaching a TrCRF VLAN to the router's ring.

Examples

Following is an example of the **source-bridge trcrf-vlan** command for an interface where the VLAN ID number and ring group number is specified:

```
interface Fast Ethernet4/0.2
encapsulation tr-isl trbrf-vlan 999 bridge-num 14
source-bridge trcrf-vlan 100 ring-group 101
```

Related Commands

Command	Description
encapsulation tr-isl trbrf-vlan	Enables TRISL, a Cisco protocol for interconnecting multiple routers and switches and maintaining Token Ring VLAN information as traffic goes between switches.
show source-bridge	Displays the current source bridge configuration and miscellaneous statistics.
source-bridge ring-group	Defines or removes a ring group from the configuration.