

# **R** Commands

This chapter describes the Cisco NX-OS Fibre Channel, virtual Fibre Channel, and Fibre Channel over Ethernet (FCoE) commands that begin with R.

## rlir preferred-cond fcid

To specify a preferred host to receive Registered Link Incident Report (RLIR) frames, use the **rlir preferred-cond fcid** command. To remove a preferred host, use the **no** form of this command.

rlir preferred-cond fcid fc-id vsan vsan-id

no rlir preferred-cond fcid fc-id vsan vsan-id

Syntax Description	fcid fc-id	Specifies the FC ID. The format is <b>0x</b> <i>hhhhhh</i> .
	vsan vsan-id	Specifies a VSAN ID. The range is from 1 to 4093.
Command Default	•	ch sends RLIR frames to one of the hosts in the Virtual SAN (VSAN) with the t to "conditionally receive" if no hosts have the register function set to "always
Command Modes	Global configuratio	n mode
Command History	Release	Modification
	5.0(2)N1(1)	This command was introduced.
Usage Guidelines	• No host in the	LIR frames to the preferred host only if it meets the following conditions: VSAN is registered for RLIR with the registration function set to "always receive." nosts in the VSAN are registered as "always receive," then RLIR sends only to these
		the configured preferred host.
	-	ost is registered with the registration function set to "conditionally receive." If all have the registration function set to "conditionally receive," then the preferred host JR frames.
	You can specify onl	y one RLIR preferred host per VSAN.
Examples	-	s how to specify the FCID 0x654321 as the RLIR preferred host for VSAN 2: lir preferred-cond fcid 0x654321 vsan 2
	1	s how to remove the FCID 0x654321 as the RLIR preferred host for VSAN 2: o rlir preferred-cond fcid 0x654321 vsan 2

<b>Related Commands</b>	Command	Description
	show rlir	Displays information about RLIR, Link Incident Record Registration (LIRR), and Distribute Registered Link Incident Record (DRLIR) frames.
	clear rlir	Clears the RLIRs.
	debug rlir	Enables RLIR debugging.

#### rscn

To configure a registered state change notification (RSCN), which is a Fibre Channel service that informs N ports about changes in the fabric, use the **rscn** command.

#### rscn {multi-pid | suppress domain-swrscn} vsan vsan-id

Sends RSCNs in multiple port ID (multi-PID) format.         Suppresses transmission of domain format SW-RCSNs.         vrscn         id       Configures VSAN information or membership. The ID of the VSAN is from 1 to 4093.		
Vrscn <i>Lid</i> Configures VSAN information or membership. The ID of the VSAN is from 1 to 4093.		
Configures VSAN information or membership. The ID of the VSAN is from 1 to 4093.		
1 to 4093.		
figuration mode		
figuration mode		
Modification		
This command was introduced.		
This example shows how to configure RSCNs in multi-PID format:		
fig)# rscn multi-pid vsan 1		
Description		
<b>src-table</b> Displays the state change registration table.		
statistics Displays RSCN statistics.		
con nd scn		

## rscn abort

To cancel a Registered State Change Notification (RSCN) configuration on a Virtual SAN (VSAN), use the **rscn abort** command. To reverse the cancellation, use the **no** form of this command.

rscn abort vsan vsan-id

no rscn abort vsan vsan-id

Syntax Description	vsan vsan-id	Specifies a VSAN where the RSCN configuration should be canceled. The ID of the VSAN is from 1 to 4093.
Command Default	None	
command Modes	Global configuration mod	de
Command History	Release	Modification
	5.0(2)N1(1)	This command was introduced.
Examples	This example shows how switch(config)# <b>rscn</b> a	to cancel an RSCN configuration on VSAN 1: bort vsan 1
	-	
	switch(config)# <b>rscn a</b>	bort vsan 1
	switch(config)# <b>rscn a</b>	Description
	switch(config)# rscn a Command rscn commit	bort vsan 1 Description Commits a pending RSCN configuration on a specified VSAN.
Examples Related Commands	switch(config)# rscn a Command rscn commit rscn distribute	bort vsan 1 Description Commits a pending RSCN configuration on a specified VSAN. Enables the distribution of an RSCN configuration.

#### rscn commit

To apply a pending Registered State Change Notification (RSCN) configuration, use the **rscn commit** command. To discard a pending RSCN configuration, use the **no** form of this command.

rscn commit vsan vsan-id

no rscn commit vsan vsan-id

Syntax Description	vsan vsan-id	Specifies a VSAN where the RSCN configuration should be committed. The ID of the VSAN is from 1 to 4093.
Command Default	None	
Command Modes	Global configuration r	mode
Command History	Release	Modification
	5.0(2)N1(1)	This command was introduced.
Usage Guidelines	•	nges made to the active database, the configuration is committed to all the switches
	in the fabric. On a succonduct of the succenduct	cessful commit, the configuration change is applied throughout the fabric and the
Usage Guidelines Examples	in the fabric. On a succlock is released. This example shows h	cessful commit, the configuration change is applied throughout the fabric and the ow to commit an RSCN configuration on VSAN 1:
	in the fabric. On a succonduct of the succenduct	cessful commit, the configuration change is applied throughout the fabric and the ow to commit an RSCN configuration on VSAN 1:
	in the fabric. On a succlock is released. This example shows h	cessful commit, the configuration change is applied throughout the fabric and the ow to commit an RSCN configuration on VSAN 1:
Examples	in the fabric. On a succ lock is released. This example shows h switch(config)# <b>rsc</b>	cessful commit, the configuration change is applied throughout the fabric and the ow to commit an RSCN configuration on VSAN 1: n commit vsan 1
Examples	in the fabric. On a succlock is released. This example shows h switch(config)# <b>rsc</b>	cessful commit, the configuration change is applied throughout the fabric and the ow to commit an RSCN configuration on VSAN 1: n commit vsan 1 Description
Examples	in the fabric. On a successful ock is released. This example shows h switch(config)# <b>rsc</b> Command rscn abort	cessful commit, the configuration change is applied throughout the fabric and the ow to commit an RSCN configuration on VSAN 1: n commit vsan 1 Description Cancels a pending RSCN configuration on a specified VSAN.
Examples	in the fabric. On a successful ock is released. This example shows h switch(config)# rscs Command rscn abort rscn distribute	cessful commit, the configuration change is applied throughout the fabric and the ow to commit an RSCN configuration on VSAN 1: n commit vsan 1 Description Cancels a pending RSCN configuration on a specified VSAN. Enables the distribution of an RSCN configuration.

### rscn distribute

To enable distribution of a Registered State Change Notification (RSCN) configuration, use the **rscn distribute** command. To disable the distribution, use the **no** form of this command.

rscn distribute

no rscn distribute

Syntax Description	This command has no arguments or keywords.
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**Command Default** RSCN timer distribution is disabled.

**Command Modes** Global configuration mode

Command History	Release	Modification
	5.0(2)N1(1)	This command was introduced.

Usage GuidelinesThe RSCN timer configuration must be the same on all switches in the Virtual SAN (VSAN). Cisco<br/>Fabric Service (CFS) automatically distributes the RSCN timer configuration to all switches in a fabric.<br/>Only the RSCN timer configuration is distributed.

 Examples
 This example shows how to enable the distribution of an RSCN configuration:

 switch(config)# rscn distribute

<b>Related Commands</b>	Command	Description
	rscn abort	Cancels a pending RSCN configuration on a specified VSAN.
	rscn commit	Applies a pending RSCN configuration.
	rscn event-tov	Configures an RSCN event timeout.
	clear rscn session	Clears the RSCN session for a specified VSAN.
	show rscn	Displays the RSCN configuration information.

#### rscn event-tov

To configure an event timeout value for a Registered State Change Notification (RSCN) on a specified Virtual SAN (VSAN), use the **rscn event-tov** command. To cancel the event timeout value and restore the default value, use the **no** form of this command.

rscn event-tov timeout vsan vsan-id

no rscn event-tov timeout vsan vsan-id

Syntax Description	timeout	Event timeout value in milliseconds. The range is from 0 to 2000.	
	vsan vsan-id	Specifies a VSAN where the RSCN event timer should be used. The ID of the VSAN is from 1 to 4093.	
Command Default	The default timeout	values are 2000 milliseconds for Fibre Channel VSANs.	
command Modes	Global configuration mode		
Command History	Release	Modification	
	5.0(2)N1(1)	This command was introduced.	
-	<b>distribute</b> command. The RSCN timer is registered with Cisco Fabric Services (CFS) during initialization and switchover.		
Examples	This example shows	how to configure an RSCN event timeout value on VSAN 1:	
	switch(config)# rs	scn event-tov 20 vsan 1	
Related Commands	Command	Description	
	rscn abort	Cancels a pending RSCN configuration on a specified VSAN.	
	rscn commit	Applies a pending RSCN configuration.	
	rscn distribute	Enables distribution of an RSCN configuration.	
	clear rscn session	Clears the RSCN session for a specified VSAN.	

Displays the RSCN configuration information.

show rscn