CHAPTER 4

Configuring the Uplinks

This chapter describes how to configure the uplink type in the Cisco Nexus 1010 software and includes the following sections:

Guidelines and Limitations

Follow these guidelines and limitations when configuring uplinks in the Cisco Nexus 1010 software:

- A change to the uplink type does not take effect until you reload the software.
- Use Table 4-1 when modifying the uplink type.

Table 4-1 Uplink Usage

Uplink Type	Usage
1	When only the Cisco Nexus 1000V VSM is installed.
2	When both VSMs and network bandwidth intensive VSBs are deployed.
3	When the management and data traffic upstream must be separated.
4	When the management and data traffic upstream must be separated and control and data traffic must also be separated.

Modifying the Uplink Type

Use this procedure to modify the uplink type on an operational Cisco Nexus 1010.

BEFORE YOU BEGIN

Before beginning this procedure, you must know or do the following:

- You are logged in to the CLI in EXEC mode.
- You must reload the Cisco Nexus 1010 pair in order to activate the changes made in this procedure.

Caution To prevent loss of connectivity, you must reconfigure the uplink switches to correspond with the change made in this procedure.

- The following are supported uplink types and the ports that carry each type of VLAN traffic.

Table 4-2 Uplink Types and VLAN Ports

Uplink type	Management VLAN	Control VLAN	Data VLAN
1	ports 1 and 2	ports 1 and 2	ports 1 and 2
2	ports 1 and 2	ports 1 and 2	ports 3-6
3	ports 1-2	ports 3-6	ports 3-6
4	ports 1-2	ports 3-4	ports 5-6

SUMMARY STEPS

1. **config t**
2. **network uplink type** *number*
3. **show network-uplink type**
4. **copy running-config startup-config**

DETAILED STEPS

	Command	Purpose

Step 1	**config t**
	
	Example:
	`switch# config t`
	`switch(config)#`
		Places you in the CLI Global Configuration mode.

Step 2	**network uplink type** *number*
	
	Example:
	`switch(config)# network uplink type 2`
	`switch(config)#`
		Changes the uplink type for the Cisco Nexus 1010.
		number: 1, 2, 3, or 4

	Command	Purpose

Step 3	**show network-uplink type**
	
	Example:
	`switch(config)# show network uplink type`
	`Administrative topology id: 2`
	`Operational topology id: 1`
	`switch(config)#`
		Displays the uplink configuration for verification.

Step 4	**copy running-config startup-config** **Example:** `switch(config)# copy running-config startup-config`	Saves the running configuration persistently through reboots and restarts by copying it to the startup configuration.

Step 5	**reload**
	
	Example:
	`switch(config)# reload`
	
	`This command will reboot the system. (y/n)?  [n] y`
	`2009 Oct 30 21:51:34 s1 %$ VDC-1 %$ %PLATFORM-2-PFM_SYSTEM_RESET: Manual system restart from Command Line Interface`
	
	`switch(config)#`	

Verifying the Uplink Configuration

To verify the uplink configuration, use the following commands:

Command	Purpose
show network-uplink type	Displays the uplink configuration for verification. See Example 4-1 on page 4-3

Example 4-1 Network Uplink Type

This example shows how to display the uplink configuration:

```
switch# show network uplink type
Administrative topology id: 2
Operational topology id: 1
switch#
```

Additional References

For additional information related to implementing system-level HA features, see the following sections:

- Related Documents, page 4-4
- Standards, page 4-4
- MIBs, page 4-4

- RFCs, page 4-4

Related Documents

Related Topic	Document Title
Software setup configuration	Setting Up the Management Software, page 2-1
virtual service blade configuration	Configuring Virtual Service Blades, page 5-1
Cisco Nexus 1010 installation	*Cisco Nexus 1010 Virtual Services Appliance Installation Guide*
Connecting uplinks	*Cisco Nexus 1010 Virtual Services Appliance Installation Guide*
Cisco Nexus 1010 commands	*Cisco Nexus 1010 Command Reference, Release 4.0(4)SP1(1)*

Standards

Standards	Title
No new or modified standards are supported by this feature, and support for existing standards has not been modified by this feature.	—

MIBs

MIBs	MIBs Link
No MIBs are supported by this feature	—

RFCs

RFCs	Title
No RFCs are supported by this feature	—

Feature History for Uplink

This section provides the uplink feature release history.

Feature Name	Releases	Feature Information
Uplink	4.0(4)SP1(1)	This feature was introduced.