Sample Configuration: ISL/802.1q Trunking Between Catalyst 2900XL/3500XL/2950 and CatOS Switches

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Contents

Introduction

This document provides sample configurations on InterSwitch Link (ISL) and 802.1q trunking between a Cisco Catalyst 5500 and a Catalyst 3500XL switch; the results of each command are displayed as they are executed. Cisco Catalyst 4000 and 6000 (running CatOS) family switches or other members of the Catalyst 5000 family, and any Catalyst 2900XL, 3500XL, or 2950 can be used in the scenarios presented in this document to obtain the same results.

Trunking is a way to carry traffic from several VLANs over a point to point link between the two devices. Two ways in which Ethernet trunking can be implemented are:

- ISL (Cisco proprietary InterSwitch Link protocol)
- 802.1q (Institute of Electrical and Electronics Engineers (IEEE) standard)

We will create a trunk that will carry traffic from two VLANs (VLAN 1 and VLAN 2) across a single link between a Catalyst 3500 and a Catalyst 5500 switch. Information on how to route between the two VLANs is beyond the scope of this document.

To create the examples in this document, we used the following switches in a lab environment with cleared configurations:

- Catalyst 3524XL switch running Cisco IOS 12.0(5.x)XU
- Catalyst 5500 switch running Catalyst OS 5.5(3) software

The configurations in this document were implemented in an isolated lab environment. Ensure that you understand the potential impact of any configuration or command on your network before using it. The configurations on all devices were cleared with the **clear config all** and **write erase** commands to ensure that they have a default configuration.

Important Notes

For Catalyst 2900XL/3500XL/2950 Switches:

Catalyst 2950 series switches only support 802.1q trunking. They do not support ISL trunking.

Currently, Catalyst 2900XL/3500XL switches do not support Dynamic Trunking Protocol (DTP). Thus, it is recommended that you use the **nonegotiate** option the ***other*** side of the trunk link as configured for the Catalyst 4000, 5000, and 6000 switches. This way, the XL switch port will not receive DTP frames that are unfamiliar to it.

On a 4MB DRAM Catalyst 2900XL switch, trunking is only supported with the following trunking-capable modules:

- WS-X2914-XL-V
- WS-X2922-XL-V
- WS-X2924-XL-V
- WS-X2931-XL
- WS-X2932-XL

Refer to the following table for the current list of switch models that support trunking:

Switch Models	Minimum Release Required for ISL Trunking	Minimum Release Required for IEEE 802.1q Trunking	Current Release Required for Trunking (ISL/802.1q)
WS-C2916M-XL (4-Meg Switch)	11.2(8)SA4 (Enterprise Edition)	11.2(8)SA5 (Original Edition)	11.2(8.6)SA6 (Original Edition)
WS-C2912-XL	11.2(8)SA4 (Enterprise Edition)	11.2(8)SA5 (Enterprise Edition)	12.0(5)WC(1) or later
WS-C2924-XL	11.2(8)SA4 (Enterprise Edition)	11.2(8)SA5 (Enterprise Edition)	12.0(5)WC(1) or later
WS-C2924C-XL	11.2(8)SA4 (Enterprise Edition)	11.2(8)SA5 (Enterprise Edition)	12.0(5)WC(1) or later
WS-C2924M-XL	11.2(8)SA4 (Enterprise Edition)	11.2(8)SA5 (Enterprise Edition)	12.0(5)WC(1) or later
WS-C2912MF-XL	11.2(8)SA4 (Enterprise Edition)	11.2(8)SA5 (Enterprise Edition)	12.0(5)WC(1) or later
WS-C2924M-XL-DC	12.0(5)XU	12.0(5)XU	12.0(5)WC(1) or later
WS-C3508G-XL	11.2(8)SA4 (Enterprise Edition)	11.2(8)SA5 (Enterprise Edition)	12.0(5)WC(1) or later
WS-C3512-XL	11.2(8)SA4 (Enterprise Edition)	11.2(8)SA5 (Original Edition)	12.0(5)WC(1) or later
WS-C3524-XL	11.2(8)SA4 (Enterprise Edition)	11.2(8)SA5 (Enterprise Edition)	12.0(5)WC(1) or later

WS-C3548-XL	12.0(5)XP (Enterprise Edition)	12.0(5)XP (Enterprise Edition)	12.0(5)WC(1) or later
WS-C3524-PWR-XL	12.0(5)XU	12.0(5)XU	12.0(5)WC(1) or later
WS-C3524-PWR-XL	12.0(5)XU	12.0(5)XU	12.0(5)WC(1) or later
WS-C2950-12	ISL Not Supported	12.0(5)WC(1)	12.0(5)WC(1) or later for 802.1Q. ISL is not supported.
WS-C2950-24	ISL Not Supported	12.0(5)WC(1)	12.0(5)WC(1) or later for 802.1Q. ISL is not supported.
WS-C2950C-24	ISL Not Supported	12.0(5)WC(1)	12.0(5)WC(1) or later for 802.1Q. ISL is not supported.
WS-C2950T-24	ISL Not Supported	12.0(5)WC(1)	12.0(5)WC(1) or later for 802.1Q. ISL is not supported.

Note: In the above table, only WS-C2916M-XL is a 4MB DRAM switch. All the other switches listed are 8MB DRAM switches. To determine whether your switch has 4 MB or 8 MB of DRAM, enter the user-level **show version** command. For more information, see the "How to Determine the Amount of Switch Memory Using the Command Line Interface" section of Upgrading Software in Catalyst 2900-XL/3500-XL Switches Using the Command Line Interface (CLI).

For Catalyst 4000, 5000, 6000 Switches:

- The Catalyst 4000 family (including Catalyst 2948G and Catalyst 2980G) only supports 802.1q trunking, not ISL trunking.
- Any Ethernet port on a Catalyst 6000 family member supports either 802.1q or ISL encapsulation.
- Depending on the module, Catalyst 5000 trunk capable ports support only ISL encapsulation, or either ISL or 802.1q. The best way to check this out is to use the **show port capabilities** command; the trunking capacity is explicitly stated. For example:

```
cat5509 show port capabilities 3
Model                     WS-X5234
Port                      3/1
Type                      10/100BaseTX
Speed                     auto,10,100
Duplex                    half,full
Trunk encap type          802.1Q,ISL
!-- This port supports both 802.1Q and ISL.
Trunk mode                on,off,desirable,auto,nonegotiate
Channel                   3/1-2,3/1-4
Broadcast suppression     percentage(0-100)
Flow control              receive-(off,on),send-(off,on)
Security                  yes
Membership                static,dynamic
Fast start                yes
```

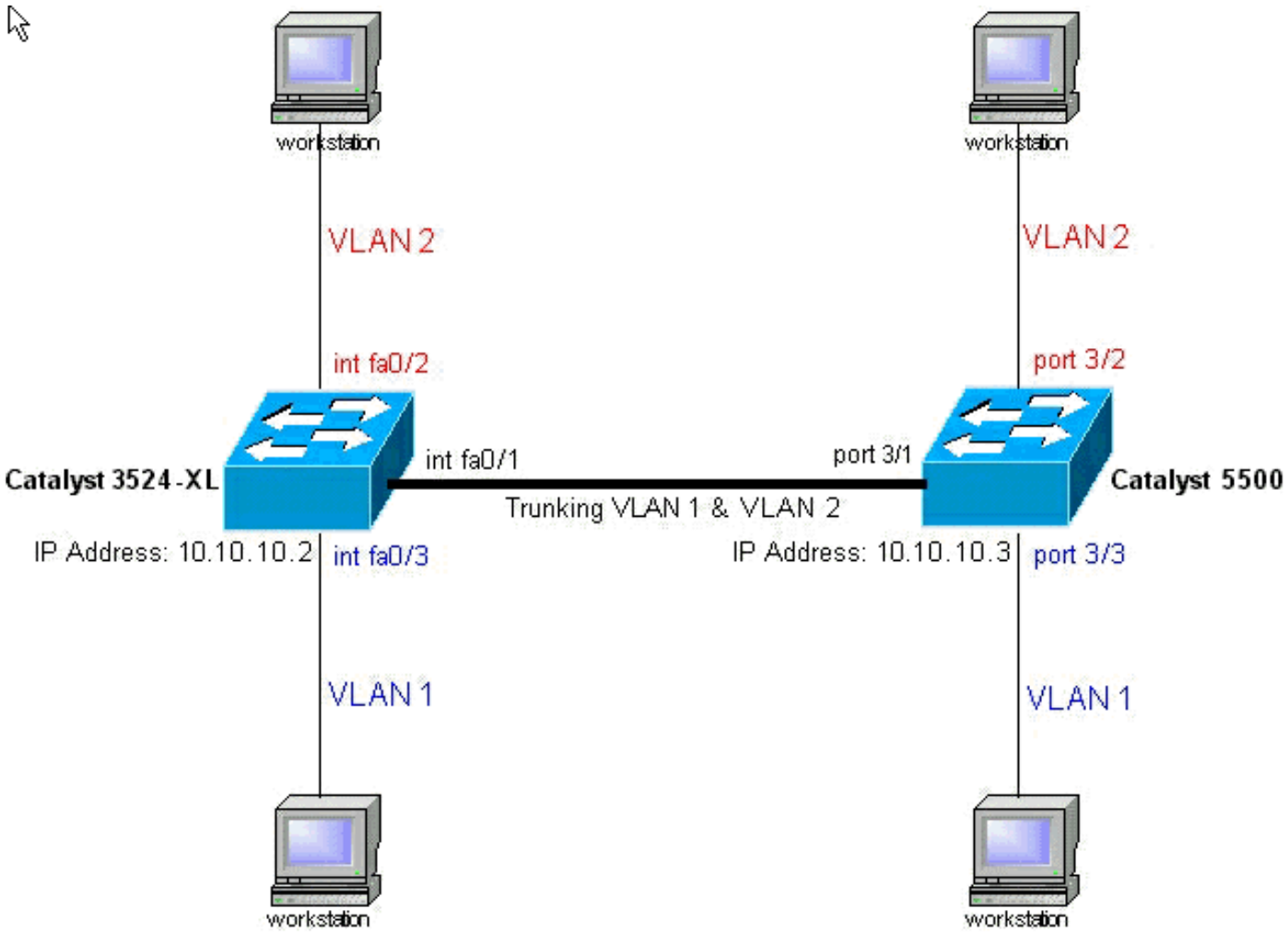
```
QOS scheduling          rx-(none),tx-(1q4t)
CoS rewrite             yes
ToS rewrite             IP-Precedence
Rewrite                 yes
UDLD                    yes
AuxiliaryVlan           1..1000,untagged,dot1p,none
SPAN                    source,destination
```

- Make sure that the trunking modes match across the trunk link. If one side of the link is configured as an ISL trunk, the other side of the link should also be configured as ISL; similarly, if one side of the link is configured as an 802.1q, the other side of the link should also be configured as 802.1q.

Conventions

For more information, see the Cisco Technical Tips Conventions.

Network Diagram



General Configuration Tasks

The following configuration is applied to the switches:

- Names assigned to the switches
- Passwords set on the switches
- Switches connected using Fast Ethernet Links

- IP addresses assigned to the switches for management only
- VLAN Trunk Protocol (VTP) modes set on the switches
- Second VLAN (VLAN 2) is added on the switches; ports are added on those VLANs
- Spanning-tree portfast is enabled on the ports, where workstations are connected. According to the topology, it is enabled on ports 2/2, 2/3 of Catalyst 5500 and ports FastEthernet0/2 and FastEthernet0/3 of Catalyst 3524XL switch.

Configurations

Note: The following screen captures show the commands that were entered on the 3524XL switch. Comments between the commands are added in blue italics to explain certain commands and steps:

Catalyst 3524-XL

```
!-- Set the privileged mode,
!-- and Telnet password on the switch.

switch#configure terminal
Enter configuration commands, one per line..End with CNTL/Z.
switch(config)#hostname 3524xl
3524xl(config)#enable password mysecret
3524xl(config)#line vty 0 4
3524xl(config-line)#login
3524xl(config-line)#password mysecret
3524xl(config-line)#exit
3524xl(config)#no logging console
3524xl(config)#^Z

!-- Set the IP address for Vlan 1 for management purposes.

3524xl#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
3524xl(config)#int vlan 1
3524xl(config-if)#ip address 10.10.10.2 255.255.255.0
3524xl(config-if)#end

!-- Set the VTP Mode.
!-- In our example, we have set the mode to be transparent.
!-- Depending on your network, set the VTP Mode accordingly.
!-- For details on VTP, refer to the following document:
!-- Configuring VTP, VLANs, and VLAN Trunks on
Catalyst 2900XL and 3500XL Switches.

3524xl#vlan database
3524xl(vlan)#vtp transparent
Setting device to VTP TRANSPARENT mode.

!-- Adding Vlan 2
3524xl(vlan)#vlan 2
VLAN 2 added:
Name: VLAN0002
3524xl(vlan)#exit
APPLY completed.
Exiting....
```

```
!-- Enable trunking on the interface fastEthernet 0/1.
3524xl#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
3524xl(config)#int fastEthernet 0/1
3524xl(config-if)#switchport mode trunk

!-- Enter the trunking encapsulation as either isl or dot1q.

3524xl(config-if)#switchport trunk encapsulation isl
3524xl(config-if)#switchport trunk encapsulation dot1q

!-- In the case of 2950 switches, the above two switchport commands are not used.
!-- 2950 switches only support 802.1q encapsulation, which is the configured
automatically
!-- when trunking is enabled on the interface by using the switchport mode trunk
command.


!--In case of dot1q, you need to make sure that
!-- the native VLAN matches across the link.
!-- On 3524XL, by default, the native VLAN is 1.
!-- Depending on your network needs, you may change
!-- the native VLAN to be other than VLAN1,
!-- but it is very important that you change the native VLAN
!-- on the other side of the link (in our case, cat5509) accordingly.
!-- You may change the native VLAN, if needed, by using the following command:
!-- 3524xl(config-if)#switchport trunk native vlan <vlan ID> .


!-- Allow all VLANs on the trunk.
3524xl(config-if)#switchport trunk allowed vlan all
3524xl(config-if)#exit

!-- The following set of commands will place FastEthernet 0/2
!-- into vlan 2 and enable portfast on the interface.

3524xl(config)#int fastEthernet 0/2
3524xl(config-if)#switchport access vlan 2
3524xl(config-if)#spanning-tree portfast
3524xl(config-if)#exit
3524xl(config)#int fastEthernet 0/3
3524xl(config-if)#spanning-tree portfast
3524xl(config-if)#^Z

!-- For details on why to enable portfast,
!-- refer to:Using Portfast and Other Commands to Fix Workstation Startup
Connectivity Delays
!-- Remember to save the configuration
!-- (you don't have to do this on a CatOS switch).

3524xl#write memory
Building configuration...

3524xl#
```

```
3524xl#show running-config
Building configuration...

Current configuration:

!
version 12.0
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname 3524xl
!
no logging console
enable password mysecret
!
!
!
!
!
ip subnet-zero
!
!
!
interface FastEthernet0/1
switchport mode trunk
!
!-- If 802.1q is configured,
!-- you will instead see the following output
!-- under interface FastEthernet0/1:
!-- interface FastEthernet0/1
!-- switchport trunk encapsulation dot1q
!-- switchport mode trunk

!
interface FastEthernet0/2
switchport access vlan 2
spanning-tree portfast
!
interface FastEthernet0/3
spanning-tree portfast
!
interface FastEthernet0/4
!
interface FastEthernet0/5
!
interface FastEthernet0/6
!
interface FastEthernet0/7
!
interface FastEthernet0/8
!
interface FastEthernet0/9
!
```

```
interface FastEthernet0/10
!
interface FastEthernet0/11
!
interface FastEthernet0/12
!
interface FastEthernet0/13
!
interface FastEthernet0/14
!
interface FastEthernet0/15
!
interface FastEthernet0/16
!
interface FastEthernet0/17
!
interface FastEthernet0/18
!
interface FastEthernet0/19
!
interface FastEthernet0/20
!
interface FastEthernet0/21
!
interface FastEthernet0/22
!
interface FastEthernet0/23
!
interface FastEthernet0/24
!
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
!
interface VLAN1
ip address 10.10.10.2 255.255.255.0
no ip directed-broadcast
no ip route-cache
!
!
line con 0
transport input none
stopbits 1
line vty 0 4
password mysecret
login
line vty 5 15
login
!
end
```

Note: The following screen captures show the commands that were entered on the 5500 switch. Comments between the commands are added in blue italics to explain certain commands and steps:

Catalyst 5500

```
!-- Set the system name and password on the switch.
Console> (enable) set system name cat5509
System name set.
cat5509> (enable) set password
Enter old password:
Enter new password:
Retype new password:
Password changed.
cat5509> (enable) set enablepass
Enter old password:
Enter new password:
Retype new password:
Password changed.

!-- Assign the IP address to the switch.

cat5509> (enable) set int sc0 10.10.10.3/24
Interface sc0 IP address and netmask set.

!-- Set the VTP Mode.
!-- In our example,
!-- we have set the VTP mode to be transparent;
!-- depending on your network,
!-- set the VTP Mode accordingly.

cat5509> (enable) set vtp mode transparent
VTP domain modified

!-- For details on VTP, refer to the following document:
!-- Configuring VLAN Trunks on Catalyst
4000, 5000 Switches
!-- Add Vlan 2, and assign port to it.

cat5509> (enable) set vlan 2 3/2
Vlan 2 configuration successful
VLAN 2 modified.
VLAN 1 modified.
VLAN Mod/Ports
---- ----------------------
2     3/2

!-- Enable portfast on the ports that are connected to the workstations.

cat5509> (enable) set spantree portfast 3/2 enable
```

Warning: Spantree port fast start should only be enabled on ports connectedto a single host. Connecting hubs, concentrators, switches, bridges, etc. to a fast start port can cause temporary spanning tree loops. Use with caution.

```
Spantree port 3/2 fast start enabled.
cat5509> (enable) set spantree portfast 3/3 enable
```

Warning: Spantree port fast start should only be enabled on ports connected to a single host. Connecting hubs, concentrators, switches, bridges, etc. to a fast start port can cause temporary spanning tree loops. Use with caution.

```
Spantree port 3/3 fast start enabled.
```

```
!-- For details on why to enable portfast refer to the follwoing document:
!-- Using Portfast and Other Commands to Fix Workstation Startup Connectivity
Delays

!-- Set the trunk encapsulation to be either ISL or 802.1q.

cat5509> (enable) set trunk 3/1 nonegotiate isl
Port(s) 3/1 trunk mode set to nonegotiate.
Port(s) 3/1 trunk type set to Isl.
cat5509> (enable)

!-- If you want to configure 802.1q trunking instead,
!-- type the following command:

cat5509> (enable) set trunk 3/1 nonegotiate dot1q


!-- In case of dot1q, you need to make sure that
!-- the native VLAN matches across the link.
!-- On cat5500, by default, the native VLAN is 1.
!-- Depending on your network needs, you may change
!-- the native VLAN to be other than VLAN1,
!-- but it is very important that you change the native VLAN
!-- on the other side of the link (in our case, 3524xl) accordingly.
!-- You may change the native VLAN, if needed, by using the following command:
!-- cat5509> (enable) set vlan <vlan ID> <mod/port>
!-- here <vlan ID> is the new Native Vlan and <mod/port> is the trunk port; in our
case 3/1.
```

Important Note: Currently, Catalyst 2900XL/3500XL switches do not support Dynamic Trunking Protocol (DTP). Thus, it is recommended that you use the **nonegotiate** option the ***other*** side of the trunk link as configured above on the Catalyst 4000, 5000, and 6000 switches. This way, the XL switch port will not receive DTP frames that are unfamiliar to it. For details on DTP modes, refer to the **DTP Modes** sections of Trunking Between Catalyst 4000, 5000, and 6000 Family Switches Using 802.1q Encapsulation.

```
cat5509> (enable) show config
This command shows non-default configurations only.
Use 'show config all' to show both default and non-default configurations.
........


..................




..

begin
!
# ***** NON-DEFAULT CONFIGURATION *****
!
```

```
!
#time: Sun Nov 26 2000, 18:19:45
!
#version 5.5(3)
!
set enablepass $2$FNl3$8MSzcpVMg1H2aWfll13aZ.
!
#system
set system name  cat5509
!
#frame distribution method
set port channel all distribution mac both
!
#vtp
set vtp mode transparent
set vlan 1 name default type ethernet mtu 1500 said 100001 state active
set vlan 2 name VLAN0002 type ethernet mtu 1500 said 100002 state active
set vlan 1002 name fddi-default type fddi mtu 1500 said 101002 state active
set vlan 1004 name fddinet-default type fddinet mtu 1500 said 101004 state active stp
ieee
set vlan 1005 name trnet-default type trbrf mtu 1500 said 101005 state active stp ibm
set vlan 1003 name token-ring-default type trcrf mtu 1500 said 101003 state acti
ve mode srb aremaxhop 7 stemaxhop 7 backupcrf off
!
#ip
set interface sc0 1 10.10.10.3/255.255.255.0 10.10.10.255

!
#set boot command
set boot config-register 0x2
set boot system flash bootflash:cat5000-sup3.5-5-2.bin
set boot system flash bootflash:cat5000-sup3.5-5-3.bin
!
#mls
set mls nde disable
!
# default port status is enable
!
!
#module 1 : 4-port 10/100BaseTX Supervisor
!
#module 2 : 3-port 1000BaseX Ethernet
!
#module 3 : 24-port 10/100BaseTX Ethernet
set vlan 2  3/2
set trunk 3/1 nonegotiate isl 1-1005

!-- If dot1q trunk is configured,
!-- then the above line is displayed as:
!-- set trunk 3/1 nonegotiate dot1q 1-1005

set spantree portfast 3/2-3 enable
!
#module 4 empty
!
#module 5 empty
```

```
!
#module 6 : 24-port 10BaseF Ethernet
!
#module 7 empty
!
#module 8 : 24-port 10/100BaseTX Ethernet
!
#module 9 empty
end
cat5509> (enable)
```

debug and show Commands

On the Catalyst 2900XL/3500XL/2950 switches:

- **show int {FastEthernet | GigabitEthernet}** <module/port> **switchport**
- **show vlan**
- **show vtp status**

On the Catalyst 5000 switch:

- **show port capabilities** <module/port>
- **show port** <module/port>
- **show trunk** <module/port>
- **show vtp domain**

Sample show Command Output

Catalyst 3500XL Switch

show int {FastEthernet | GigabitEthernet} <module/port> **switchport**

This command is used to check the administrative and operational status of the port and is also used to make sure that the native VLAN matches on both sides of the trunk. The native VLAN is used for untagged traffic when the port is in 802.1q trunking mode. Refer to Configuring VTP, VLANs, and VLAN Trunks on Catalyst 2900XL and 3500XL Switches for details on native VLANs.

```
3524xl#show int fastEthernet 0/1 switchport
Name: Fa0/1
Switchport: Enabled
Administrative mode: trunk
Operational Mode: trunk
Administrative Trunking Encapsulation: isl
Operational Trunking Encapsulation: isl
Negotiation of Trunking: Disabled
Access Mode VLAN: 0 ((Inactive))
Trunking Native Mode VLAN: 1 (default)
Trunking VLANs Enabled: ALL
Trunking VLANs Active: 1,2
Pruning VLANs Enabled: 2-1001

Priority for untagged frames: 0
Override vlan tag priority: FALSE
Voice VLAN: none
Appliance trust: none
```

Note: For 802.1q trunking, the output of the above command changes as follows:

```
3524xl#show int fastEthernet 0/1 switchport
Name: Fa0/1
Switchport: Enabled
Administrative mode: trunk
Operational Mode: trunk
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: Disabled
Access Mode VLAN: 0 ((Inactive))
Trunking Native Mode VLAN: 1 (default)
Trunking VLANs Enabled: ALL
Trunking VLANs Active: 1,2
Pruning VLANs Enabled: 2-1001

Priority for untagged frames: 0
Override vlan tag priority: FALSE
Voice VLAN: none
```

show vlan

This command is used to verify that the interfaces (ports) belong to the correct VLAN. In our example, only interface Fa0/2 belongs to VLAN 2, and the rest are members of VLAN 1.

```
3524xl#show vlan
VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
1    default                          active    Fa0/3, Fa0/4, Fa0/5, Fa0/6,
                                                Fa0/7, Fa0/8, Fa0/9, Fa0/10,
                                                Fa0/11, Fa0/12, Fa0/13, Fa0/14,
                                                Fa0/15, Fa0/16, Fa0/17, Fa0/18,
                                                Fa0/19, Fa0/20, Fa0/21, Fa0/22,
                                                Fa0/23, Fa0/24, Gi0/1, Gi0/2
2    VLAN0002                         active    Fa0/2
1002 fddi-default                     active
1003 token-ring-default               active
1004 fddinet-default                  active
1005 trnet-default                    active

...(output suppressed)
```

show vtp status

This command is used to check the VTP configuration on the switch. In our example, we have used **transparent mode**. The correct VTP mode depends on the topology of your network. For details on VTP, refer to Configuring VTP, VLANs, and VLAN Trunks on Catalyst 2900XL and 3500XL Switches.

```
3524xl#show vtp status
VTP Version                     : 2
Configuration Revision          : 0
Maximum VLANs supported locally : 254
Number of existing VLANs        : 6
VTP Operating Mode              : Transparent
VTP Domain Name                 :
VTP Pruning Mode                : Disabled
VTP V2 Mode                     : Disabled
VTP Traps Generation            : Disabled
MD5 digest                      : 0x74 0x79 0xD3 0x08 0xC0 0x82 0x68 0x63
Configuration last modified by 10.10.10.2 at 3-1-93 00:05:30
```

CatOS Switches

show port channel capabilities <module/port>

This command is used to check if the port is capable of trunking:

```
cat5509 show port capabilities 3/1
Model                   WS-X5234
Port                    3/1
Type                    10/100BaseTX
Speed                   auto,10,100
Duplex                  half,full
Trunk encap type        802.1Q,ISL
Trunk mode              on,off,desirable,auto,nonegotiate
Channel                 3/1-2,3/1-4
Broadcast suppression   percentage(0-100)
Flow control            receive-(off,on),send-(off,on)
Security                yes
Membership              static,dynamic
Fast start              yes
QOS scheduling          rx-(none),TX(1q4t)
COs rewrite             yes
ToS rewrite             IP-Precedence
Rewrite                 yes
UDLD                    yes
AuxiliaryVlan           1..1000,untagged,dot1p,none
SPAN                    source,destination
```

show port <module/port>

```
cat5509> (enable) show port 3/1

Port  Name               Status     Vlan       Level  Duplex Speed Type
----- ------------------ ---------- ---------- ------ ------ ----- ------------
 3/1                     connected  trunk      normal a-full a-100 10/100BaseTX

Port  AuxiliaryVlan AuxVlan-Status
----- ------------- --------------
 3/1  none          none


Port  Security Violation Shutdown-Time Age-Time Max-Addr Trap     IfIndex
----- -------- --------- ------------- -------- -------- -------- -------
 3/1  disabled  shutdown             0        0        1 disabled      12

Port  Num-Addr Secure-Src-Addr   Age-Left Last-Src-Addr     Shutdown/Time-Left
----- -------- ----------------- -------- ----------------- ------------------
 3/1         0                 -        -                 -        -         -

...(output suppressed)
```

show trunk

This command is used to verify the trunking status and configuration.

```
cat5509> (enable) show trunk
* - indicates vtp domain mismatch
Port      Mode         Encapsulation  Status        Native vlan
--------  -----------  -------------  ------------  -----------
 3/1      nonegotiate  isl            trunking      1
```

```
Port      Vlans allowed on trunk
--------  ----------------------------------------------------------------
 3/1      1-1005

Port      Vlans allowed and active in management domain
--------  ----------------------------------------------------------------
 3/1      1-2

Port      Vlans in spanning tree forwarding state and not pruned
--------  ----------------------------------------------------------------
 3/1      1-2
```

Note: For 802.1q trunking, the output of the above command changes as follows:

```
cat5509> (enable) show trunk
* - indicates vtp domain mismatch
Port      Mode         Encapsulation  Status        Native vlan
--------  -----------  -------------  ------------  -----------
 3/1      nonegotiate  dot1q          trunking      1

Port      Vlans allowed on trunk
--------  ----------------------------------------------------------------
 3/1      1-1005

Port      Vlans allowed and active in management domain
--------  ----------------------------------------------------------------
 3/1      1-2

Port      Vlans in spanning tree forwarding state and not pruned
--------  ----------------------------------------------------------------
 3/1      1-2
```

show vtp domain

```
cat5509> (enable) show vtp domain
DomainName                       Domain Index VTP Version Local Mode  Password
-------------------------------- ------------ ----------- ----------- ----------
                                  1            2           Transparent -

Vlan-count Max-vlan-storage Config Revision Notifications
---------- ---------------- --------------- -------------
6          1023             0               disabled

Last Updater    V2 Mode  Pruning  PruneEligible on Vlans
--------------- -------- -------- -------------------------
10.10.10.3      disabled disabled 2-1000
```

Related Information

- **Creating and Maintaining VLANs** - Catalyst 2950 switches
- **Configuring VTP, VLANs, and VLAN Trunks on Catalyst 2900XL and 3500XL Switches**
- **Configuring VLAN Trunks on Catalyst 4000, 5000 Switches**
- **Configuring VLAN Trunks on Catalyst 6000 Switches**
- **Using Portfast and Other Commands to Fix Workstation Startup Connectivity Delays**

- **Catalyst 2950 Desktop Switch Command Reference**
- **Catalyst 2900XL/3500XL, Cisco IOS Desktop Switching Command Reference**
- **Catalyst 4000, 5000, 6000 Family Command Reference Index (5.5)**
- **LAN Technologies Technical Tips**
