

set password

Use the **set password** command to change the login password on the CLI.

set password

Syntax Description

This command has no arguments or keywords.

Default

The default configuration has no password configured.

Command Type

Switch command.

Command Mode

Privileged.

Usage Guideline

The command prompts you for the old password. If the password you enter is valid, you are prompted to enter a new password and to verify the new password. A zero-length password is allowed by pressing **Return**.

Example

This example shows how to set an initial password:

```
Console> (enable) set password
Enter old password: <old_password>
Enter new password: <new_password>
Retype new password: <new_password>
Password changed.
Console> (enable)
```

set port broadcast

Use the **set port broadcast** command to set the broadcast/multicast suppression for one or more ports. The broadcast threshold limits the backplane traffic received from the module.

```
set port broadcast mod_num/port_num threshold[%]
```

Syntax Description

<i>mod_num</i>	Number of the module.
<i>port_num</i>	Number of the port.
<i>threshold</i>	Number of packets-per-second of broadcast/multicast traffic allowed on the port or the percentage of total available bandwidth that can be used by broadcast/multicast traffic. Valid values are: 0 to 150000 packets per second or 0 to 100 percent. 0 pps or 100% unlimits broadcast traffic.
<i>%</i>	(Optional) Keyword used if <i>threshold</i> is expressed as a percentage of total available bandwidth that can be used by broadcast/multicast traffic.

Default

The default value for the threshold is 100 percent.

Command Type

Switch command.

Command Mode

Privileged.

Usage Guidelines

This command is not supported on the Catalyst 4000 and 2948G series switches.

The following Catalyst 5000, 2926G, and 2926 series switching modules support hardware broadcast/multicast suppression: Ethernet switching module (10BaseT 48 port, Telco), part number WS-X5012; and group switching Fast Ethernet module (100BaseTX 24 Port), part number WS-X5223.

Software broadcast/multicast suppression is supported in all Ethernet line modules that support hardware broadcast/multicast suppression, except the Ethernet switching module (10BaseT 48 port, Telco, WS-X5012). For more information on the broadcast/multicast suppression feature, see the *Software Configuration Guide* for your switch.

Although bandwidth-based broadcast/multicast suppression applies to all ports on a module, you must still specify a port number according to the syntax rules of the **set port broadcast** *mod_num/port_num threshold* [%] command. For example, if you specify port 3 on module 4 (**4/3**), broadcast/multicast suppression is applied to every port on module 4. You can specify any port number between 1 and 24.

Only the Ethernet switching module (10BaseT 48 port, Telco, WS-X5012) supports bandwidth-based broadcast/multicast suppression on a per-port basis.

This command is not supported by the RSM.

On a Token Ring module, uplink ports connect to different switching buses, so the software/firmware knows which SAMBA to set. This is different from other modules with SAMBA, where **set** applies to all ports, and the SAMBA of switching bus A (to which SAGE inband link is connected) cannot be set for broadcast suppression.

The packets-per-second option is not supported by the 1000BaseX switching module.

Examples

This example shows how to limit broadcast traffic to 500 packets per second on ports 2/1 through 3/24:

```
Console> (enable) set port broadcast 2/1-3/24 500  
Ports 2/1-3/24 broadcast traffic limited to 500 packets.  
Console> (enable)
```

This example shows how to limit broadcast traffic to 20 percent to all ports on module 4 (see “Usage Guidelines” for more information):

```
Console> (enable) set port broadcast 4/3 20%  
Port 4/1-24 broadcast traffic limited to 20%.  
Console> (enable)
```

This example shows how to allow unlimited broadcast traffic to all ports on module 4 (see “Usage Guidelines” for more information):

```
Console> (enable) set port broadcast 4/3 100%  
Port 4/1-24 broadcast traffic unlimited.  
Console> (enable)
```

Related Commands

clear port broadcast

show port

set port channel

Use the **set port channel** command to configure EtherChannel on Ethernet module ports.

```
set port channel mod/ports... [on | off | desirable | auto] [silent | nonsilent]
```

Syntax Description

<i>mod/ports...</i>	Module and port(s) to bundle.
on	(Optional) Keyword to enable and force EtherChannel for the specified module ports.
off	(Optional) Keyword to disable EtherChannel for the specified module ports.
desirable	(Optional) Keyword to set EtherChannel mode to desirable for the specified module ports. In desirable mode, all received PAgP packets are transmitted.
auto	(Optional) Keyword to set EtherChannel mode to desirable for the specified module ports. In auto mode, all received PAgP packets are transmitted.
silent	(Optional) Keyword to indicate that the specified module ports be posted to STP even if the partner has not sent out any packets.
nonsilent	(Optional) Keyword to indicate that the specified module ports not be posted to STP if the partner has not sent out any packets.

Default

The default system configuration has EtherChannel set to auto and silent on all module ports.

Command Type

Switch command.

Command Mode

Privileged.

Usage Guidelines

Make sure that all ports in the channel are configured with the same port speed, duplex mode, and so forth. For more information on EtherChannel, refer to the “Configuring Ethernet and Fast Ethernet Switching Modules” chapter in the *Software Configuration Guide* for your switch.

Disable the port security feature on the channeled ports (see the **set port security** command). If you enable port security for a channeled port, the port shuts down when it receives packets with source addresses that do not match the secure address of the port.

If you do not enter the *mod/ports...*, all ports are addressed.

If you do not enter the channel mode, the channel mode of the ports addressed are not modified.

The **silent** | **nonsilent** parameters only apply if **desirable** or **auto** modes are entered.

This command is not supported by the RSM.

This command is not supported by the three-port Gigabit Ethernet switching module (WS-X5403).

On the 1000Base-X switching module (WS-X5410), only ports 1 through 4 and 5 through 8 can be channeled. Port 9 cannot be channeled to other ports.

On the Catalyst 4000 and 2948G series switches, port channel group restrictions apply for each module. The following ports can be channeled:

- 6-port GBIC module (WS-X4306) - 1-2, 3-6
- 10/100 BaseT module (WS-X4232) - 1-2, 3-6, 7-10, ... 31-34
- 10/100 BaseT module (WS-X4148) - 1-4, 5-8, 9-12, ..., 45-48
- 18-port Gigabit module (WS-X4418) - 1-2, 3-6, 7-10, 11-14, 15-18
- Catalyst 2948G 4 x 12 + 2 (Catalyst 2948G) - 1-4, 5-8, 9-12, ..., 45-48, 49-50

Examples

This example shows how to enable Fast EtherChannel on ports 5–8 of Fast Ethernet module 2:

```
Console> (enable) set port channel 2/5-8 on  
Ports 2/5-8 channel mode set to on.  
Console> (enable)
```

This example shows how to disable Fast EtherChannel on ports 5–8 of Fast Ethernet module 2:

```
Console> (enable) set port channel 2/5-8 off  
Ports 2/5-8 disabled and channel mode set to off.  
Console> (enable)
```

Related Command

show port channel

set port disable

Use the **set port disable** command to disable a port or a range of ports.

set port disable *mod_num/port_num*

Syntax Description

mod_num Number of the module.

port_num Number of the port.

Default

The default system configuration has all ports enabled.

Command Type

Switch command.

Command Mode

Privileged.

Usage Guidelines

This command is not supported by the RSM.

The Catalyst 2948G is a fixed configuration switch. All ports are located on module 2; for this reason, if you enter **1/N** for the module/port number, an error message is displayed.

Example

This example shows how to disable a port using the **set port disable** command:

```
Console> (enable) set port disable 5/10
Port 5/10 disabled.
Console> (enable)
```

Related Commands

set port enable

show port

set port duplex

Use the **set port duplex** command to configure the duplex type of an Ethernet or Fast Ethernet port or range of ports.

```
set port duplex mod_num/port_num {full | half}
```

Syntax Description

mod_num Number of the module.

port_num Number of the port.

full Keyword to specify full-duplex transmission.

half Keyword to specify half-duplex transmission.

Default

The default configuration for 10-Mbps and 100-Mbps modules has all Ethernet ports set to half duplex.

Command Type

Switch command.

Command Mode

Privileged.

Usage Guidelines

You can configure Ethernet and Fast Ethernet interfaces to either full duplex or half duplex.

The **set port duplex** command is not valid on the 24- and 48-port group switching modules (WS-X5020 and WS-X5223) or the RSM.

The **set port duplex** command is not valid when issued against a Token Ring port. Use the **set tokenring portmode** command instead. If you enter a **set port duplex** command, you are directed to use the proper command.

The Gigabit Ethernet switching modules can only be configured as full duplex.

The Catalyst 2948G is a fixed configuration switch. All ports are located on module 2; for this reason, if you enter **1/N** for the module/port number, an error message is displayed.

Examples

This example shows how to set port 1 on module 2 to full duplex:

```
Console> (enable) set port duplex 2/1 full  
Port 2/1 set to full-duplex.  
Console> (enable)
```

set port duplex

This example shows what the **set port duplex** command displays if entered against a Token Ring port:

```
Console> (enable) set port duplex 3/1 full  
Port 3/1 is Token Ring, use 'set tokenring portmode' command instead  
Console> (enable)
```

Related Command

show port

set port enable

Use the **set port enable** command to enable a port or a range of ports.

```
set port enable mod_num/port_num
```

Syntax Description

mod_num Number of the module.

port_num Number of the port.

Default

The default system configuration has all ports enabled.

Command Type

Switch command.

Command Mode

Privileged.

Usage Guidelines

This command is not supported on the RSM.

The Catalyst 2948G is a fixed configuration switch. All ports are located on module 2; for this reason, if you enter **1/N** for the module/port number, an error message is displayed.

Example

This example shows how to enable port 3 on module 2:

```
Console> (enable) set port enable 2/3  
Port 2/3 enabled.  
Console> (enable)
```

Related Commands

set port disable

show port

set port filter

Use the **set port filter** command to configure a MAC address filter or a protocol filter for ports on the Token Ring module.

```
set port filter mod_num/port_num {mac_addr | protocol_type} {permit | deny}
```

Syntax Description

<i>mod_num</i>	Number of the module.
<i>port_num</i>	Number of the port on the module.
<i>mac_addr</i>	MAC address contained in the packets to be filtered. You can enter this address in canonical format (00-11-33-44-55) or noncanonical format (00:11:22:33:44:55).
<i>protocol_type</i>	Protocol type that you want to filter. For a list of the protocol types that you can filter, see Table 2-7 through Table 2-9.
permit	Keyword to specify that the filter can permit packets with the specified MAC address or protocol type.
deny	Keyword to specify that the filter can deny packets with the specified MAC address or protocol type.

Default

The command has no default setting.

Command Type

Switch command.

Command Mode

Privileged.

Usage Guidelines

You can configure up to 16 MAC address filters or 16 protocol (eight SAPs and eight DSAPs) filters per port on the Token Ring module. Refer to Table 2-7 through Table 2-9 for lists of SAPs and Ethertypes that you can use when defining protocol filters.

The Catalyst 2948G is a fixed configuration switch. All ports are located on module 2; for this reason, if you enter **1/N** for the module/port number, an error message is displayed.

Table 2-7 and Table 2-8 list the SAPs that you can use to define protocol classes.

Table 2-7 IEEE-Defined SAPs

Hexadecimal Value	Description
X'02'	LLC Sublayer Management
X'06'	DoD Internet
X'x6'	National Standards Bodies
X'0E'	Proway Network Management
X'4E'	Manufacturing Message Service
X'7E'	ISO 8208
X'8E'	Proway Active Station List Maintenance
X'FE'	OSI Network Layer Protocols
X'42'	Bridge Spanning-Tree Protocol

Table 2-8 IBM-Defined SAPs

Hexadecimal Value	Description
X'04'	SNA Path Control Individual
X'F0'	NetBIOS
X'F4'	LAN Management Individual
X'F8'	IMPL
X'FC'	Discovery
X'DC'	Dynamic Address Resolution
X'D4'	Resource Management

Table 2-9 lists the possible Ethertypes that you can use to define protocol filters.

Table 2-9 Ethertypes

Hexadecimal Value	Description
X'0000' through X'05DC'	IEEE 802.3
X'0600'	Xerox XNS IDP
X'0800'	DoD IP
X'0801'	X.75 Internet
X'0802'	NBS Internet
X'0803'	ECMA Internet
X'0804'	CHAOSnet
X'0805'	X.25 Level 3
X'0806'	ARP (for IP and CHAOS)
X'6001'	DEC MOP Dump/Load Assistance
X'6002'	DEC MOP Remote Console
X'6003'	DEC DECnet Phase IV

Table 2-9 Ethertypes (continued)

Hexadecimal Value	Description
X'6004'	DEC LAT
X'6005'	DEC DECnet Diagnostics
X'6010' through X'6014'	3Com Corporation
X'7000' through X'7002'	Ungermann-Bass download
X'7030'	Proteon
X'7034'	Cabletron
X'8035'	Reverse ARP
X'8046' through X'8047'	AT&T
X'8088' through X'808A'	Xyplex
X'809B'	Kinetics Ethertalk (Appletalk over Ethernet)
X'80C0' through X'80C3'	Digital Communications Associates
X'80D5'	IBM SNA Services over Ethernet
X'80F2'	Retix
X'80F3' through X'80F5'	Kinetics
X'80F7'	Apollo Computer
X'80FF' through X'8103'	Wellfleet Communications
X'8137' through X'8138'	Novell

Example

This example shows how to configure a port filter on port 2 MAC address 00:40:0b:01:bc:65 of module 3:

```
Console> (enable) set port filter 3/2 00:40:0b:01:bc:65 permit
Port 3/2 filter Mac Address 00:40:0b:01:bc:65 set to permit.
Console> (enable)
```

Related Commands

clear port filter

show port filter

set port flowcontrol

Use the **set port flowcontrol** command to set the receive flow-control value for a particular Gigabit switching module port.

```
set port flowcontrol { receive | send } [mod_num/port_num] { off | on | desired }
```

Syntax Description

receive	Keyword to indicate whether the port can receive administrative status from a remote device.
send	Keyword to indicate whether the local port can send administrative status to a remote device.
<i>mod_num</i>	(Optional) Number of the module.
<i>port_num</i>	(Optional) Number of the port on the module.
off	Keyword, when used with receive , to turn off an attached device's ability to send flow-control packets to a local port. When used with send , turns off the local port's ability to send administrative status to a remote device.
on	Keyword, when used with receive , to require that a local port receive administrative status from a remote device. When used with send , the local port sends administrative status to a remote device.
desired	Keyword, when used with receive , to allow a local port to operate with an attached device that is required to send flow-control packets, or with an attached device that is not required to but may send flow-control packets. When used with send , the local port sends administrative status to a remote device if the remote device supports it.

Default

Default for receive is **off**. Default for send is **desired**. Default on multiplexed ports is **on**. The exception to these defaults applies to the 18-port Gigabit module. The defaults are shown below:

- Ports 1-2 = send is **off** and receive is **desired**
- Ports 3-18 = send is **on** and receive is **desired**

Command Type

Switch command.

Command Mode

Privileged.

Usage Guidelines

This command is not supported for the RSM.

This command is supported on Gigabit switching modules only.

The Catalyst 2948G is a fixed configuration switch. All ports are located on module 2; for this reason, if you enter **1/N** for the module/port number, an error message is displayed.

Examples

These examples show how to use the **set port flowcontrol** command set:

```
Console> (enable) set port flowcontrol receive 5/1 on  
Port 5/1 flow control receive administration status set to on  
(port will require far end to send flowcontrol)  
Console> (enable)
```

```
Console> (enable) set port flowcontrol receive 5/1 desired  
Port 5/1 flow control receive administration status set to desired  
(port will allow far end to send flowcontrol if far end supports it)  
Console> (enable)
```

```
Console> (enable) set port flowcontrol receive 5/1 off  
Port 5/1 flow control receive administration status set to off  
(port will not allow far end to send flowcontrol)  
Console> (enable)
```

```
Console> (enable) set port flowcontrol send 5/1 on  
Port 5/1 flow control send administration status set to on  
(port will send flowcontrol to far end)  
Console> (enable)
```

```
Console> (enable) set port flowcontrol send 5/1 desired  
Port 5/1 flow control send administration status set to desired  
(port will send flowcontrol to far end if far end supports it)  
Console> (enable)
```

```
Console> (enable) set port flowcontrol send 5/1 off  
Port 5/1 flow control send administration status set to off  
(port will not send flowcontrol to far end)  
Console> (enable)
```

Related Command

show port flowcontrol

set port level

Use the **set port level** command to set the priority level of a port or range of ports on the switching bus.

```
set port level mod_num/port_num { normal | high }
```

Syntax Description

mod_num Number of the module.

port_num Number of the port on the module.

normal Keyword to set the port priority to normal.

high Keyword to set the port priority to high.

Default

The default configuration has all ports at normal priority level.

Command Type

Switch command.

Command Mode

Privileged.

Usage Guidelines

Packets traveling through a port set at normal priority are served only after packets traveling through a port set at high priority are served.

This command is not supported for the RSM.

The Catalyst 2948G is a fixed configuration switch. All ports are located on module 2; for this reason, if you enter **1/N** for the module/port number, an error message is displayed.

Example

This example shows how to set the priority level for port 2 on module 1 to high:

```
Console> (enable) set port level 1/2 high  
Port 1/2 port level set to high.  
Console> (enable)
```

Related Commands

set port disable	set port duplex
set port enable	set port name
set port speed	set port trap
show port	

set port membership

Use the **set port membership** command to dynamically or statically assign membership of a port or range of ports to a VLAN.

```
set port membership mod_num/port_num {dynamic | static}
```

Syntax Description

mod_num Module number.

port_num Port number.

dynamic Keyword to dynamically assign VLAN membership to a port.

static Keyword to statically assign VLAN membership to a port.

Default

Default port membership is static.

Command Type

Switch command.

Command Mode

Privileged.

Usage Guidelines

When a port is assigned a VLAN dynamically, the **show port** command output identifies the VLAN as dynamic and, if the dynamic port is shut down by a VMPS, its status is shown as shutdown.

This command is not supported on the RSM.

This command is not supported by the three-port Gigabit Ethernet switching module (WS-X5403).

Token Ring does not currently support dynamic VLAN membership—all Token Ring ports are static. If you issue a **set port membership dynamic** command against a Token Ring port, the following message is generated:

```
Feature not supported for Module x.
```

The Catalyst 2948G is a fixed configuration switch. All ports are located on module 2; for this reason, if you enter **1/N** for the module/port number, an error message is displayed.

Examples

These examples show how to assign VLAN membership to one or more ports using the **set port membership** command:

```
Console> (enable) set port membership 3/1-3 dynamic  
Ports 3/1-3 vlan assignment set to dynamic.  
Spantree port fast start option enabled for ports 3/1-3.  
Console> (enable)
```

```
Console> (enable) set port membership 4/2 dynamic  
Ports 4/1-12 vlan assignment set to dynamic.  
Spantree port fast start option enabled for port 4/2.  
Console> (enable)
```

Related Commands

set port enable

show port

set port name

Use the **set port name** command to configure a name for a port.

```
set port name mod_num/port_num [port_name]
```

Syntax Description

mod_num Number of the module.

port_num Number of the port.

port_name (Optional) Name of the port.

Default

The default configuration has no port name configured for any port.

Command Type

Switch command.

Command Mode

Privileged.

Usage Guidelines

If you do not specify the name string, the port name is cleared.

This command is not supported for the RSM.

The Catalyst 2948G is a fixed configuration switch. All ports are located on module 2; for this reason, if you enter **1/N** for the module/port number, an error message is displayed.

Example

This example shows how to set port 1 on module 4 to Snowy:

```
Console> (enable) set port name 4/1 Snowy  
Port 4/1 name set.  
Console> (enable)
```

Related Commands

set port disable
set port duplex
set port enable
set port speed
set port trap
show port

set port negotiation

Use the **set port negotiation** command to enable or disable the link negotiation protocol on the specified port.

```
set port negotiation mod_num/port_num [enable | disable]
```

Syntax Description

mod_num Number of the module.

port_num Number of the port.

enable (Optional) Keyword to enable the link negotiation protocol.

disable (Optional) Keyword to disable the link negotiation protocol.

Default

The default is link negotiation protocol enabled.

Command Type

Switch command.

Command Mode

Privileged.

Usage Guidelines

This command only applies to ports on the Gigabit switching module.

The Catalyst 2948G is a fixed configuration switch. All ports are located on module 2; for this reason, if you enter **1/N** for the module/port number, an error message is displayed.

Example

This example shows how to disable link negotiation protocol on port 1, module 4:

```
Console> (enable) set port negotiation 4/1 disable  
Link negotiation protocol disabled on port 4/1.  
Console> (enable)
```

Related Command

show port negotiation

set port protocol

Use the **set port protocol** command to enable or disable protocol membership of ports.

```
set port protocol mod_num/port_num {ip | ipx | group} {on | off | auto}
```

Syntax Description

mod_num Number of the module.

port_num Number of the port.

ip Keyword to specify IP protocol.

ipx Keyword to specify IPX protocol.

group Keyword to specify AppleTalk, DECnet, and VINES protocols.

on Keyword to indicate the port will receive all the flood traffic for that protocol.

off Keyword to indicate the port will not receive any flood traffic for that protocol.

auto Keyword to indicate the port will be added to the protocol group only after receiving packets of the specific protocol.

Default

By default, ports are configured to **on** for the IP protocol groups and **auto** for IPX and Group protocols.

Command Type

Switch command.

Command Mode

Privileged.

Usage Guidelines

Protocol filtering is supported only on nontrunking Ethernet, Fast Ethernet, and Gigabit Ethernet ports. Trunking ports are always members of all the protocol groups.

If the port configuration is set to auto, the port initially does not receive any flood packets for that protocol. When the corresponding protocol packets are received on that port, the supervisor engine detects this and adds the port to the protocol group.

Ports configured as auto are removed from the protocol group if no packets are received for that protocol within a certain period of time. This aging time is set to 60 minutes. They are also removed from the protocol group on detection of a link down.

Protocol filtering is supported on MLS-based Catalyst 5000, 2926G, and 2926 series switches and Catalyst 4000 and 2948G series switches.

VINES protocol is not supported by the Catalyst 4000 and 2948G series switches.

The Catalyst 2948G is a fixed configuration switch. All ports are located on module 2; for this reason, if you enter **1/N** for the module/port number, an error message is displayed.

Examples

This example shows how to disable IPX protocol membership of port 1 on module 2:

```
Console> (enable) set port protocol 2/1 ipx off  
IPX protocol disabled on port 2/1.  
Console> (enable)
```

This example shows how to enable automatic IP membership of port 1 on module 5:

```
Console> (enable) set port protocol 5/1 ip auto  
IP protocol set to auto mode on module 5/1.  
Console> (enable)
```

Related Command

show port protocol

set port security

Use the **set port security** command to configure port security on a port or range of ports on an Ethernet module.

```
set port security mod/ports... {enable | disable} [mac_addr]
```

Syntax Description

<i>mod</i>	Number of the module.
<i>ports...</i>	Number of the ports.
enable	Keyword to enable port security.
disable	Keyword to disable port security.
<i>mac_addr</i>	(Optional) Secure MAC address of the enabled port.

Default

The default configuration has port security disabled.

Command Type

Switch command.

Command Mode

Privileged.

Usage Guidelines

If the MAC address is not given, the command turns on learning mode so that the first MAC address seen on the port becomes the secure MAC address.

If you issue this command against a Token Ring port, the following message is generated:

```
Feature not supported for Module x.
```

This command is not supported by the three-port Gigabit Ethernet switching module (WS-X5403).

The Catalyst 2948G is a fixed configuration switch. All ports are located on module 2; for this reason, if you enter **1/N** for the module/port number, an error message is displayed.

Examples

This example shows how to set port security with a learned MAC address:

```
Console> (enable) set port security 3/1 enable  
Port 3/1 port security enabled with the learned mac address.  
Console> (enable)
```

This example shows how to set port security with a specific MAC address:

```
Console> (enable) set port security 3/1 enable 01-02-03-04-05-06  
Port 3/1 port security enabled with 01-02-03-04-05-06 as the secure mac address.  
Console> (enable)
```

Related Commands

set port enable

show port

set port speed

Use the **set port speed** command to configure the speed of a port interface. You can configure the speed of an Ethernet interface.

```
set port speed mod_num/port_num {4 | 10 | 16 | 100 | auto}
```

Syntax Description

mod_num Number of the module.

port_num Number of the port on the module.

4 | **10** | **16** | **100** | **auto** Keyword to set a port speed to 4, 10, 16, 100 Mbps, or autospeed detection mode.

Default

The default configuration has all module ports set to **auto**.

Command Type

Switch command.

Command Mode

Privileged.

Usage Guidelines

You can configure Ethernet interfaces on the 10/100-Mbps Ethernet switching modules to either 10 Mbps or 100 Mbps, or to autosensing mode, allowing them to sense and distinguish between 10-Mbps and 100-Mbps port transmission speeds and full-duplex or half-duplex port transmission types at a remote port connection. If you set the interfaces to autosensing mode, they configure themselves automatically to operate at the proper speed and transmission type.

You can configure Token Ring interfaces on the Token Ring module to either 4 Mbps or 16 Mbps, or to autospeed detection mode, allowing them to sense and distinguish between 4-Mbps and 16-Mbps port transmission speed. If you set the interfaces to autospeed detection mode, they automatically configure themselves to operate at the proper speed.

If you change the transmission speed of a port that is open to 4 or 16 Mbps, the port will close and reopen at the new transmission speed. If a port closes and reopens on an existing ring using a transmission speed different from that which the ring is operating, the ring will beacon.

If you set the port speed to **auto**, duplex mode is automatically set to auto.

The **4** and **16** port-speed options are not supported by the Catalyst 4000 and 2948G series switches.

If the ports on the Token Ring module are configured to detect the speed of the ring automatically, the first port inserted on the ring does not set the speed, because it is unable to detect the speed.

This command is not supported by the Gigabit Ethernet switching modules; port speed is factory set to 1000.

The Catalyst 2948G is a fixed configuration switch. All ports are located on module 2; for this reason, if you enter **1/N** for the module/port number, an error message is displayed.

Examples

This example shows how to configure port 1 on module 2 to auto:

```
Console> (enable) set port speed 2/1 auto  
Port 2/1 speed set to auto-sensing mode.  
Console> (enable)
```

This example shows how to configure port 2 on module 2 port speed to 10 Mbps:

```
Console> (enable) set port speed 2/2 10  
Port 2/2 speed set to 10 Mbps.  
Console> (enable)
```

This example shows how to configure port 4 on module 3 port speed to 16 Mbps:

```
Console> (enable) set port speed 3/4 16  
Port(s) 3/4 speed set to 16Mbps.  
Console> (enable)
```

Related Commands

- set port disable**
- set port enable**
- set port name**
- set port trap**
- show port**

set port trap

Use the **set port trap** command to enable or disable the operation of the standard SNMP link trap (up or down) for a port or range of ports.

```
set port trap mod_num/port_num {enable | disable}
```

Syntax Description

mod_num Number of the module.

port_num Number of the port.

enable Keyword to activate the SNMP link trap.

disable Keyword to deactivate the SNMP link trap.

Default

The default configuration has all port traps disabled.

Command Type

Switch command.

Command Mode

Privileged.

Usage Guideline

The Catalyst 2948G is a fixed configuration switch. All ports are located on module 2; for this reason, if you enter **1/N** for the module/port number, an error message is displayed.

Example

This example shows how to enable the SNMP link trap for module 1, port 2:

```
Console> (enable) set port trap 1/2 enable  
Port 1/2 up/down trap enabled.  
Console> (enable)
```

Related Commands

set port disable
set port duplex
set port enable
set port name
set port speed
show port

set prompt

Use the **set prompt** command to change the prompt for the CLI.

```
set prompt prompt_string
```

Syntax Description

prompt_string String to use as the command prompt.

Default

The default configuration has the prompt set to Console>.

Command Type

Switch command.

Command Mode

Privileged.

Usage Guideline

In Catalyst 5000, 2926G, and 2926 series software release 4.1(1) and later, and Catalyst 4000 and 2948G series software release 4.4 and later, if you use the **set system name** command to assign a name to the switch, the switch name is used as the prompt string. However, if you specify a different prompt string using the **set prompt** command, that string is used for the prompt.

Example

This example shows how to set the prompt to system100>:

```
Console> (enable) set prompt system100>  
system100> (enable)
```

Related Command

set system name

set protocolfilter

Use the **set protocolfilter** command to activate or deactivate protocol filtering.

```
set protocolfilter {enable | disable}
```

Syntax Description

enable Keyword to activate protocol filtering.

disable Keyword to deactivate protocol filtering.

Default

The default configuration has protocol filtering disabled.

Command Type

Switch command.

Command Mode

Privileged.

Examples

This example shows how to activate protocol filtering:

```
Console> (enable) set protocolfilter enable  
Protocol filtering enabled on this switch.  
Console> (enable)
```

This example shows how to deactivate protocol filtering:

```
Console> (enable) set protocolfilter disable  
Protocol filtering disabled on this switch.  
Console> (enable)
```

Related Command

show protocolfilter