channel-group

To define the time slots that belong to each T1 or E1 circuit, use the **channel-group** command in controller configuration mode. To clear the time slots for the T1 or E1 circuit, use the **no** form of this command.

channel-group *channel-number* timeslots *range* [speed {48 | 56 | 64}]

no channel-group [channel-number **timeslots** range]

Syntax Description	channel-number	Channel-group number. When configuring a T1 data line, channel-group numbers can be values from 0 to 23. When configuring an E1 data line, channel-group numbers can be values from 0 to 30.					
	timeslots rangeOne or more time slots or ranges of time slots belonging to the or The first time slot is numbered 1. For a T1 controller, the time from 1 to 24. For an E1 controller, the time slot range is from						
	speed {48 56 64}	(Optional) Speed of the underlying DS0s. See the Usage Guidelines section for additional information.					
Defaults	The default line speed	when configuring a T1 controller is 56 kbps.					
	The default line speed	when configuring an E1 controller is 64 kbps.					
Command Modes	Controller configuration	on					
Command History	Release	Modification					
	11.3 MA	This command was introduced.					
Usage Guidelines	fractional data line. The controller. The time sl	onfigurations where the router or access server must communicate with a T1 or E2 the channel-group number may be arbitrarily assigned and must be unique for the ot range must match the time slots assigned to the channel group. The service me slots that comprise a channel group.					
Note	Channel groups, CAS voice groups, and TDM groups all use group numbers. All group numbers configured for channel groups, CAS voice groups and TDM groups must be unique on the local Cisco MC3810 concentrator. For example, you cannot use the same group number for a channel group and for a TDM group. Furthermore, on the Cisco MC3810 concentrator, only one channel group can be configured on a controller.						
	configured on a contro	oller.					

The **channel-group** command also applies to Voice over Frame Relay, Voice over ATM, and Voice over HDLC on the Cisco MC3810.

Examples

The following example defines three channel groups. Channel-group 0 consists of a single time slot, channel-group 8 consists of 7 time slots and runs at a speed of 64 kbps per time slot, and channel-group 12 consists of a single time slot.

channel-group 0 timeslots 1 channel-group 8 timeslots 5,7,12-15,20 speed 64 channel-group 12 timeslots 2

The following example configures a channel group on controller T1 0 on a Cisco MC3810:

controller T1 0
channel-group 10 timeslots10 64

 Related Commands
 Command
 Description

 framing
 Selects the frame type for the T1 or E1 data line.

 linecode
 Selects the linecode type for T1 or E1 line.

chat-script

To create a script that will place a call over a modem, use the **chat-script** command in global configuration mode. To disable the specified chat script, use the **no** form of this command.

chat-script script-name expect-send

no chat-script script-name expect-send

Syntax Description	script-name	Name of the chat script.						
	expect-send	Pairs of information elements: an item to expect and an item to send in response.						
Defaults	No chat script	s are defined.						
Command Modes	Global configu	iration						
Command History	Release	Modification						
	10.0	This command was introduced.						
Usage Guidelines	 Chat scripts are used in dial-on-demand routing (DDR) to give commands to dial a modem and commands to log on to remote systems. The defined script will be used to place a call over a modem. Some characteristics of chat scripts are as follows: Chat scripts are case sensitive. You can have any number of ABORT sequences active at once. When a chat script starts, the default timeout is 5 seconds. Changes to the timeout persist until the next time you change them in the script. A string within quotation marks is treated as a single entity. We recommend that one chat script (a "modem" chat script) be written for placing a call and another chat script (a "system" or "login" chat script) be written to log on to remote systems, where required. 							
	Suggested Chat Script Naming Conventions A suggested chat script naming convention is <i>vendor-type-modulation</i> . If you follow this convention, the syntax of the chat-script command becomes chat-script <i>vendor-type-modulation expect-send</i> .							
	For example, if you have a Telebit T3000 modem that uses V.32 <i>bis</i> modulation, you would name your chat script telebit-t3000-v32bis.							
	The chat-scrij	pt command could be written as follows:						
	-	:elebit-t3000-v32bis Abort error Abort busy Abort "NO ANSWER" "" "AT H" OK "AT NG $\$ IIMEOUT 30 CONNECT $\$						

Adhering to this naming convention allows you to use partial chat script names with regular expressions to specify a range of chat scripts that can be used. This capability is particularly useful for dialer rotary groups and is explained further in the next section.

Chat scripts are in the form *expect-send*, where the send string following the hyphen (-) is executed if the preceding expect string fails. Each send string is followed by a return unless it ends with the escape sequence \c . The sequence \x is translated into the appropriate control character, and the sequence \x is translated into x if \x is not one of the special sequences listed in Table 5.

See the book titled *Managing uucp and Usenet* by Tim O'Reilly and Grace Todino for more information about chat scripts.

Escape Sequences

The escape sequences used in chat scripts are listed in Table 5.

Escape Sequence	Description
\	Sends the ASCII character with its octal value.
//	Sends a backslash (\) character.
\"	Sends a double-quote (") character (does not work <i>within</i> double quotes).
\c	Suppresses a new line at the end of the send string.
\d	Delays for 2 seconds.
\K	Inserts a BREAK.
\n	Sends a newline or linefeed character.
\N	Sends a null character.
\p	Pauses for 0.25 second.
\q	Reserved, not yet used.
\r	Sends a return.
\s	Sends a space character.
\t	Sends a tab character.
\T	Replaced by phone number.
	Expects a null string.
BREAK	Causes a BREAK. This sequence is sometimes simulated with line speed changes and null characters. May not work on all systems.
EOT	Sends an end-of-transmission character.

Table 5 Chat Script Send String Escape Sequences

Expect-Send Pairs

Sample supported *expect-send* pairs are described in Table 6.

Table 6	Sample Supported Expect-Send Pairs
---------	------------------------------------

Expect and Send Pair	Function
ABORT string	Designates a string whose presence in the input indicates that the chat script has failed.
TIMEOUT time	Sets the time to wait for input, in seconds. The default is 5 seconds and a timeout of 60 seconds is recommended for V.90 modems.

For example, if a modem reports BUSY when the number dialed is busy, you can indicate that you want the attempt stopped at this point by including ABORT BUSY in your chat script.

Alternate Handlers

If you use the *expect-send* pair ABORT SINK instead of ABORT ERROR, the system terminates abnormally when it encounters SINK instead of ERROR.

Missed Characters

After the connection is established and you press the Return key, you must often press Return a second time before the prompt appears.

For example, you might include the following as part of your chat script:

ssword:-/r-ssword

This part of the script specifies that, after the connection is established, you want **ssword** to be displayed. If it is not displayed, you must press Return again after the timeout passes.

Examples The following example shows the **chat-script** command being used to create a chat script named t3000:

chat-script t3000 Abort ERROR Abort BUSY Abort "NO ANSWER" "" "AT H" OK "AT DT \T DIALING \c TIMEOUT 60 CONNECT \c

Related Commands	Command	Description
	dialer map	Configures a serial interface or ISDN interface to call one or multiple sites or to receive calls from multiple sites.
	script dialer	Specifies a default modem chat script.

class

To create a signaling class structure that can be referred to by its name, use the **class** command in controller configuration mode. To remove the structure, use the **no** form of this command.

class name

no class name

Syntax Description	name The signalling class name which specifies the template that processes the ANI/DNIS delimiter.							
Defaults	No default behavior or values. Controller configuration							
Command History	Release	Modification						
	12.1(1)T	The command was introduced.						
Usage Guidelines	A signalling class allows the Cisco AS5300 and Cisco AS5800 universal access servers to provide the ANI/DNIS delimiter on incoming T1/CAS trunk lines. The digit collection logic in the call switching module (CSM) for incoming T1 CAS calls in dual tone multifrequency (DTMF) is modified to process the delimiters, the ANI digits, and the DNIS digits.							
	For this feature to work, a CAS signalling class with the template to process ANI/DNIS delimiters has to be defined. This creates a signalling class structure which can be referred to by its name. The <i>name</i> argument must match the name configured in the signaling-class cas command.							
Examples	The following example on channel 1:	e defines a CAS signalling class with the template to process ANI/DNIS delimiters						
	Router(config)# signaling-class cas test Router(config-sig-class)# profile incoming S<*a<*d<*n							
	Router(config)# controller T1 1/0/1 Router(config-controller)# cas-custom 1 Router(config-ctrl-cas)# class test							
Related Commands	Commands	Descriptions						
	profile incoming	Defines a template formed by directives guiding the CSM to process the digit sequence for a signalling class.						
	signaling-class cas	Defines a signalling class which specifies the template that processes the ANI/DNIS delimiter.						

clear cot summary

To reset the counters, use the **clear cot summary** command in privileged EXEC mode.

clear cot summar	y
This command has no a	arguments or keywords.
Privileged EXEC	
Release	Modification
11.3(7)	This command was introduced.
	nerated, but the counters in the show cot summary command would be all zeros.
Command	Description
show cot dsp	Displays information about the COT DSP configuration or current status.
show cot request	Displays COT request information.
show cot summary	Displays information about the COT activity.
	This command has no a Privileged EXEC Release 11.3(7) There is no display ger Command show cot dsp show cot request

clear counters (async)

To clear the counters of a specified asynchronous interface or specified asynchronous interface group, as displayed by the **show interface async** command, use the **clear counters** command in EXEC mode.

clear counters {async async-interface-number | group-async group-async-interface-number}

	Counters in a specified asynchronous interface.							
1	Counters in a specified asynchronous interface.							
r-number	Required async interface number of the asynchronous interface that has been previously created with this number specification. The range is from 1 through 49.							
	Counters in a specified asynchronous interface group.							
terface-number	 Required group-async interface number that has been previously created with this number specification. The range is from 0 through 49. 							
	Modification							
	This command was introduced.							
asynchronous in	the show interface async command to display the asynchronous related nterface named 1. The example then uses the clear counters group-asyn as After the counters are cleared, the configuration file for the interface i							
displayed. Router# show interface async 1								
Async Serial s unnumbered. tes, BW 115 Kb on PPP, loopba ed for 5 secon P, CDPCP never, output ng of "show in 0/10/0 (size	<pre>ate=IDLE NONE, status=VDEV_STATUS_UNLOCKED Using address of Ethernet0 (1.18.31.9) oit, DLY 100000 usec, rely 255/255, load 1/255 ack not set, keepalive not set nds on reset never, output hang never nterface" counters 00:03:46 e/max/drops); Total output drops: 0/////</pre>							
n In e:	ing of "show in							

```
Reserved Conversations 0/0 (allocated/max allocated)

5 minute input rate 0 bits/sec, 0 packets/sec

5 minute output rate 0 bits/sec, 0 packets/sec

0 packets input, 0 bytes, 0 no buffer

Received 0 broadcasts, 0 runts, 0 giants, 0 throttles

0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort

0 packets output, 0 bytes, 0 underruns

0 output errors, 0 collisions, 0 interface resets

0 output buffer failures, 0 output buffers swapped out

0 carrier transitions

Router#

Router# clear counters group-async 1

Clear "show interface" counters on this interface [confirm]

Router#
```

*Oct 17 00:42:27.083: %CLEAR-5-COUNTERS: Clear counter on interface Group-Asynce

Related Commands	Command	Description
	clear modem counters	Clears the statistical counters on one or more manageable modems on access
		servers or routers.
	show interface async	Displays the asynchronous related counters on the specified asynchronous interface.

clear counters line

To clear line counters, use the clear counters line command in EXEC mode.

clear counters line {type | number}

Syntax Description	type	Line type: aux	, console,	tty, or vty							
	<i>number</i> First line number to clear, which can be between 0 and 54.										
Command Modes	EXEC										
Command History	Release	Modification									
	11.2 P	This command	was intro	duced.							
Usage Guidelines	This comma	nd clears the line co	ounters sho	own by the	e show lin	ie commai	ıd.				
Examples				-			nters line command. Yed by the show line				
	Router# clear counters line ?										
	<0-54> aux console tty vty	First Line numbe Auxiliary line Primary terminal Terminal control Virtual terminal	line ler								
	Router# exit										
	Router> show line										
	 A 2 TTY 11 A 3 TTY 11 * 4 TTY 11 * 5 TTY 11 * 6 TTY 11 * 6 TTY 11 * 7 TTY 11 * 8 TTY 11 * 9 TTY 11 * 10 TTY 11 		out - out - out - out - out - out - out - out - out - out -	ACCU ACC.	- 0 - 1 - 1 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	Noise 4 0 0 0 0 0 0 0 0 0 0 0	Overruns 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/				
	* 12 TTY 11 * 13 TTY 11 * 14 TTY 11 * 15 TTY 11	5200/115200 - inc 5200/115200 - inc 5200/115200 - inc 5200/115200 - inc 5200/115200 - inc 5200/115200 - inc	out - out - out - out -		- 0 - 0 - 0 - 0 - 1	0 0 0 0 0	0/0 0/0 0/0 0/0 0/0 0/0				

А	17	TTY	115200/115200	-	inout	-	-	-	-	1		0	0/0
А	18	TTY	115200/115200	-	inout	-		-	-	1		0	0/0
А	19	TTY	115200/115200	-	inout	-		-	-	1		0	0/0
А	20	TTY	115200/115200	-	inout	-		-	-	1		0	0/0
А	21	TTY	115200/115200	-	inout	-		-	-	1		0	0/0

Related Commands

Command

show line

DescriptionDisplays the parameters of a terminal line.

clear dialer

To clear the values of dialer statistics for one or more serial interfaces or BRIs configured for dial-on-demand routing (DDR), use the **clear dialer** privileged EXEC mode command

clear dialer [interface interface-type interface-number]

Cisco 7500 Series Routers Only

clear dialer [interface serial slot/port]

Syntax Description	interface	(Optional) Indicates that one interface will be specified.
	interface-type	(Optional) Interface type: async, serial, or bri.
	interface-number	(Optional) Interface number.
	slotlport	(Optional) Backplane slot number and port number on the interface. See your hardware installation manual for the specific slot and port numbers.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	11.0	This command was introduced.
Usage Guidelines	If the interface key	word and the arguments are not used, dialer statistics are cleared on all interfaces.

clear dialer dnis

To reset the counter statistics associated with a specific dialed number identification service (DNIS) group or number, use the **clear dialer dnis** command in privileged EXEC mode.

clear dialer dnis {group name | number number}

Syntax Description	group name	Dialer DNIS group statistics.
	number number	Dialer DNIS number statistics.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.0(4)XI	This command was introduced.
Usage Guidelines	group or number. T associated with a s	er dnis EXEC command to reset the counter statistics associated with a specific DNIS This command clears the counters for a DNIS group to reset the counter statistics specific DNIS group or number. If an ISP is charging a customer for the number of can clear the number after a week or month by using this command.
Examples	The following example shows the result of using the clear dialer dnis command for the DNIS group named dg1. Note that the counters have been cleared after the clear dialer dnis command has been entered.	
	DNIS Number:7102	ler dnis group dgl 8
	4 total connect	tions
	3 peak connect:	lons
		matches
	1 calltype miss DNIS Number:41562	
	1 calltype miss DNIS Number:41562 8 total connect	266541 tions
	1 calltype miss DNIS Number:41562 8 total connect 5 peak connect	266541 tions ions
	1 calltype miss DNIS Number:41562 8 total connect	266541 tions ions matches
	1 calltype miss DNIS Number:41562 8 total connect 5 peak connect: 0 calltype miss DNIS Number:40855 3 total connect	266541 tions ions matches 541628 tions
	1 calltype miss DNIS Number:41562 8 total connect 5 peak connect: 0 calltype miss DNIS Number:4085 3 total connect 2 peak connect	266541 tions ions matches 541628 tions ions
	1 calltype miss DNIS Number:41562 8 total connect 5 peak connect: 0 calltype miss DNIS Number:40855 3 total connect	266541 tions ions matches 541628 tions ions matches
	1 calltype miss DNIS Number:41562 8 total connect 5 peak connect 0 calltype miss DNIS Number:4085 3 total connect 2 peak connect 0 calltype miss DNIS Number:7101 2 total connect	266541 tions ions matches 541628 tions ions matches 7 tions
	1 calltype miss DNIS Number:41562 8 total connect 5 peak connect 0 calltype miss DNIS Number:4085 3 total connect 2 peak connect 0 calltype miss DNIS Number:7101	266541 tions ions matches 541628 tions ions matches 7 tions ions
	<pre>1 calltype misr DNIS Number:41562 8 total connect 5 peak connect: 0 calltype misr DNIS Number:40855 3 total connect 2 peak connect: 0 calltype misr DNIS Number:71017 2 total connect 1 peak connect: 0 calltype misr</pre>	266541 tions ions matches 541628 tions ions matches 7 tions ions
	<pre>1 calltype miss DNIS Number:41562 8 total connect 5 peak connect: 0 calltype miss DNIS Number:40855 3 total connect 2 peak connect: 0 calltype miss DNIS Number:71017 2 total connect 1 peak connect: 0 calltype miss Router# clear dia</pre>	266541 tions ions matches 541628 tions ions matches 7 tions ions matches
	<pre>1 calltype miss DNIS Number:41562 8 total connect 5 peak connect: 0 calltype miss DNIS Number:40855 3 total connect 2 peak connect: 0 calltype miss DNIS Number:71017 2 total connect 1 peak connect: 0 calltype miss Router# clear dia</pre>	266541 tions ions matches 541628 tions ions matches 7 tions ions matches aler dnis group dg1

0 peak connections
0 calltype mismatches
DNIS Number:4156266541
0 total connections
0 peak connections
0 calltype mismatches
DNIS Number:4085541628
0 total connections
0 peak connections
0 calltype mismatches
DNIS Number:71017
0 total connections
0 peak connections
0 calltype mismatches

Related Commands	Command	Description
	show dialer dnis	Displays the number of calls DNIS groups have had.

clear dialer sessions

To remove all dialer sessions and disconnect links when connected, use the **clear dialer sessions** command in EXEC mode.

clear dialer sessions

This command has no arguments or keywords.	
EXEC	
Release	Modification
12.0(3)T	This command was introduced.
The following example Router# clear dialer	shows how to use the clear dialer sessions command: sessions
Command	Description
show dialer sessions	Displays all dialer sessions.
	EXEC Release 12.0(3)T The following example Router# clear dialer Command

clear dsip tracing

To clear Distributed System Interconnect Protocol (DSIP) tracing statistics (trace logging), use the **clear dsip tracing** command in privileged EXEC mode.

clear dsip tracing {counters | tracing} [control | data | ipc]

Syntax Description	counters	DSIP counters.
	tracing	DSIP tracing buffers.
	control	(Optional) Control counters or tracing buffers.
	data	(Optional) Data counters or tracing buffers.
	ipc	(Optional) Inter-process communication counters or tracing buffers.
Defaults	If no option is specifie are cleared.	ed, all control, data, and inter-process communication counters or tracing buffers
Command Modes	privileged EXEC	
Command History	Release	Modification
	nonouoo	WOUTTCATION
,	11.3(2)AA	This command was introduced.
	11.3(2)AA	
Usage Guidelines	11.3(2)AA Use this command to d	This command was introduced.
Usage Guidelines Examples	11.3(2)AA Use this command to d	This command was introduced. clear the counters displayed with the show dsip tracing EXEC command. ple, the DSIP counters are cleared (including data, control, and ipc counters):
Usage Guidelines	11.3(2)AA Use this command to o In the following example	This command was introduced. clear the counters displayed with the show dsip tracing EXEC command. ple, the DSIP counters are cleared (including data, control, and ipc counters):
Usage Guidelines Examples	11.3(2)AA Use this command to o In the following exam Router# clear dsip t	This command was introduced. clear the counters displayed with the show dsip tracing EXEC command. ple, the DSIP counters are cleared (including data, control, and ipc counters): cracing

clear interface virtual-access

To tear down the virtual access interface and free the memory for other dial-in uses, use the **clear interface virtual-access** command in EXEC mode.

clear interface virtual-access number

Syntax Description	number Virtu	al access interface number.
Command Modes	EXEC	
Command History	Release Modi	ification
	11.2 F This	command was introduced.
		the memory for uses unrelated to dial-in access.
Usage Guidelines	This command does not fr	ee the memory for uses unrelated to dial-in access.
Usage Guidelines Examples	The following example cle	ee the memory for uses unrelated to dial-in access. ears a specified virtual access interface. You can use the show interfaces to display the interface numbers before you clear any specific one.
	The following example cle	ears a specified virtual access interface. You can use the show interfaces to display the interface numbers before you clear any specific one.
	The following example cle virtual-access command t	ears a specified virtual access interface. You can use the show interfaces to display the interface numbers before you clear any specific one.
Examples	The following example cle virtual-access command t Router# clear interface	ears a specified virtual access interface. You can use the show interfaces to display the interface numbers before you clear any specific one. a virtual access 1 Description

clear ip route download

To clear static routes downloaded from an authentication, authorization, and accounting (AAA) server, use the **clear ip route download** command in EXEC mode.

clear ip route download {* | network-number network-mask | reload}

Syntax Description		
Oyntax Description	*	All routes.
	network-number network-mask	Destination network route and mask in standard IP address notation. For example, 10.1.1.1 255.255.255.255.
	reload	Delete all routes, then reload static routes from the AAA server and reset the timer configured by the aaa route download command.
ommand Modes	EXEC	
ommand History	Release	Modification
	12.0(3)T	This command was introduced.
Examples	The following example	
xamples	The following example	shows how to clear all routes:
zampies	Router# clear ip rout	
	Router# clear ip rout	e download *
Related Commands	Router# clear ip rout Command aaa authorization	Description Downloads static route configuration information from the AAA server

clear line

To return a terminal line to idle state, use the **clear line** command in EXEC mode.

clear line line-number

Syntax Description	line-number	Absolute line number.
Command Modes	EXEC	
Command History	Release	Modification
	10.0	This command was introduced.
Usage Guidelines	Use this comman modem will be di	d to log out of a specific session running on another line. If the line uses a modem, the isconnected.
Examples	The following ex Router# clear 1	ample resets line 3 to idle state: ine 3

clear line async-queue

To reset the connections currently waiting to use a rotary line in the queue, use the **clear line async-queue** command in EXEC mode.

clear line async-queue [rotary-group]

Syntax Description	rotary-group	(Optional) Rotary group.
Command Modes	EXEC	
Command History	Release	Modification
	12.1(1)T	This command was introduced.
Usage Guidelines	asynchronous que	nd without any argument to remove all rotary line queues and terminate the eue manager. Use the clear line async-queue command with the <i>rotary-group</i> argument specified rotary group.
Examples	_	ample clears all the rotary queues and shows the resulting output:
	Clearing queued Clearing rotary Clearing line Clearing rotary Clearing rotary Clearing line Clearing line	e 69 2 70 7 group 2 2 66 2 67

clear modem

To reset the hardware for one or more manageable modems on an access server or router, use the **clear modem** command in EXEC mode.

clear modem {slot/port | all | group group-number | at-mode slot/port | test}

Syntax Description		
-	slot/port	Slot and modem port number. (Include the forward slash (/) when entering this variable. For example: 1/1 .)
	all	All modems. This command disconnects any active calls.
	group group-number	Group of modems. The modem group number is the number of the group you have previously created.
	at-mode slot/port	AT directly connected session. The variable, <i>slot/port</i> , is required. This EXEC command clears an attention (AT) directly connected session to a manageable Microcom modem from a second Telnet session.
	test	Log or test report that is displayed by the show modem test command. If you do not clear the test regularly, eventually the oldest test report will replace the current test report.
Command Modes	EXEC	
Command History	Release	Modification
	11.2	This command was introduced.
Usage Guidelines		s reset for modems that are idle or busied out for long periods of time.
Usage Guidelines	An AT directly connected enter the modem at-mo	s reset for modems that are idle or busied out for long periods of time. ed session is usually initiated and closed from the same Telnet session when you de command and press Ctrl-C. However, you can clear an AT directly connected enly left open by enabling the clear modem at-mode command from a second
	An AT directly connected enter the modem at-mo session that was mistak Telnet session in to the	s reset for modems that are idle or busied out for long periods of time. ed session is usually initiated and closed from the same Telnet session when you de command and press Ctrl-C . However, you can clear an AT directly connected enly left open by enabling the clear modem at-mode command from a second
	An AT directly connected enter the modem at-mo session that was mistak Telnet session in to the The following example	s reset for modems that are idle or busied out for long periods of time. ed session is usually initiated and closed from the same Telnet session when you de command and press Ctrl-C. However, you can clear an AT directly connected enly left open by enabling the clear modem at-mode command from a second access server. of the clear modem <i>slot/port</i> command resets the hardware for manageable
	An AT directly connecte enter the modem at-mo session that was mistak Telnet session in to the The following example modem 1/1: Router# clear modem 2	s reset for modems that are idle or busied out for long periods of time. ed session is usually initiated and closed from the same Telnet session when you de command and press Ctrl-C. However, you can clear an AT directly connected enly left open by enabling the clear modem at-mode command from a second access server. of the clear modem <i>slot/port</i> command resets the hardware for manageable
Usage Guidelines Examples	An AT directly connecte enter the modem at-mo session that was mistak Telnet session in to the The following example modem 1/1: Router# clear modem 2	s reset for modems that are idle or busied out for long periods of time. ed session is usually initiated and closed from the same Telnet session when you de command and press Ctrl-C . However, you can clear an AT directly connected enly left open by enabling the clear modem at-mode command from a second access server. of the clear modem <i>slot/port</i> command resets the hardware for manageable 1/1 umple of using the clear modem all command:

The following examples of the **clear modem group** command clear the manageable modems in group 1:

Router# clear modem group 1 Router# clear modem group1

The following example executes the clear modem at-mode command from a Telnet session:

modem at-mode 1/1

The following example executes the **clear modem at-mode** command from a second Telnet session while the first Telnet session is connected to the modem:

Router# clear modem at-mode 1/1

clear "modem at-mode" for modem 1/1 [confirm]
Router#

The following output is displayed in the first Telnet session after the modem is cleared by the second Telnet session:

Direct connect session cleared by vty0 (172.19.1.164)

Related Commands	Command	Description
	clear modem counters	Clears the statistical counters on one or more manageable modems on access servers or routers.
	interface group-async	Creates a group interface that will serve as master, to which asynchronous interfaces can be associated as members.
	show modem at-mode	Opens a directly connected session and enters AT command mode, which is used for sending AT commands to Microcom manageable modems.
	show modem test	Displays the modem test log.

clear modem counters

To clear the statistical counters on one or more manageable modems installed in an access server, use the **clear modem counters** command in EXEC mode.

clear modem counters [slot/port-number | group [group-number]]

Syntax Description	slot/port-number	(Optional) Slot and modem port number. (Include the forward slash $(/)$ when entering this variable. For example: $1/1$.)
	group [group-number]	(Optional) One or all groups of modems. The optional modem group number is the number of a group-async interface. The group number range is 1 through 1002.
Defaults	Disabled	
Command Modes	EXEC	
Command History	Release	Modification
	Entering the clear mode resets the modem statist summary command.	This command was introduced. em counters command without specifying an optional keyword or argument ics on each modem and the summary statistics displayed in the show modem
Command History Usage Guidelines Examples	11.2 Entering the clear mode resets the modem statist summary command. The subcommand clear in groups. The optional mode	This command was introduced. em counters command without specifying an optional keyword or argument ics on each modem and the summary statistics displayed in the show modem modem counters group without the group number clears counters in all modem odem group number is the number of a group you have previously created.
	11.2 Entering the clear mode resets the modem statist summary command. The subcommand clear i groups. The optional mode The following example of on manageable modem if	This command was introduced. em counters command without specifying an optional keyword or argument ics on each modem and the summary statistics displayed in the show modem modem counters group without the group number clears counters in all modem odem group number is the number of a group you have previously created. of the clear modem counters <i>slot/port</i> command clears the statistical counters 1/1:
Usage Guidelines	11.2 Entering the clear moder resets the modem statistic summary command. The subcommand clear n groups. The optional moder The following example of on manageable modern if Router# clear moder command	This command was introduced. em counters command without specifying an optional keyword or argument ics on each modem and the summary statistics displayed in the show modem modem counters group without the group number clears counters in all modem odem group number is the number of a group you have previously created. of the clear modem counters <i>slot/port</i> command clears the statistical counters 1/1: ounters 1/1 of the clear modem counters group command clears the statistical counters on
Usage Guidelines	11.2 Entering the clear moder resets the modem statistic summary command. The subcommand clear in groups. The optional moder The following example of on manageable moder Router# clear moder The following example of	This command was introduced. em counters command without specifying an optional keyword or argument ics on each modem and the summary statistics displayed in the show modem modem counters group without the group number clears counters in all modem odem group number is the number of a group you have previously created. of the clear modem counters <i>slot/port</i> command clears the statistical counters 1/1: ounters 1/1 of the clear modem counters group command clears the statistical counters on groups:

Related Commands	Command	Description
	clear cot summary	Clears the counters of a specified asynchronous interface or specified asynchronous interface group.
	show modem summary	Displays a high-level report for all manageable modems dialing into and out of the network.

clear modem log

To reset the log for one or more manageable modems installed in a Cisco AS5800 series access server, use the **clear modem log** command in EXEC mode.

clear modem log [shelf/slot/port shelf/slot/port ... | group [group-number]]

Syntax Description	shelf/slot/port	(Optional) One or several modem shelves listed in the order shelf, slot, and port. (Include the forward slash (/) when entering the values.) The shelf value is the shelf ID of the dial shelf. The slot values range from 2 to 11 and the port values range from 0 to 323 on the UP324 modem card, and from 0 to 143 on the Double Density Modem Module (DMM) card.
	group [group-number]	(Optional) One or all groups of modems. The optional modem group number is the number of a group-async interface. The group number range is 1 to 1002.
Defaults	Reset logs for all moder	ns.
Command Modes	EXEC	
Command History	Release	Modification
·	12.1 T	This command was introduced.
Usage Guidelines	log for all modems. Ente argument clears the log	em log command without specifying an optional keyword or argument resets the ering the clear modem log command and the group keyword without an for all modem groups. Use the optional <i>shelf/slot/port</i> or <i>group-number</i> g of a specific modem or modem group.
	The group-number arguing group-async global con	ment is the number of a group you have previously created using the interface figuration and group range interface configuration commands. These up of asynchronous interfaces that are associated with a group asynchronous
Examples	The following example	clears the modem log for shelf 1, slot 4, port 0:
	Router# clear modem 1	og 1/4/0
	Clear Modem log for m	Nodem 1/4/00 [confirm] y
	Use the show modem lo	og command to verify that the modem log for shelf 1, slot 4, port 0 is cleared:
	Router# show modem lo	
	Modem 1/4/00 Events L	log:

The following example clears the modem logs for shelf 1, slot 4, port 0 and shelf 1, slot 4, port 2: Router# clear modem log 1/4/1 1/4/2

Clear modem log for modems 1/4/01 to 1/4/02 [confirm]**y**

Use the **show modem log** command to verify the modem logs for shelf 1, slot 4, port 0 and shelf 1, slot 4, port 2 are cleared:

Router# show modem log 1/4/1 1/4/2

Modem 1/4/01 Events Log: Modem 1/4/02 Events Log:

The following example clears the log for all modems:

Router# clear modem log

Clear modem log for all modems [confirm] ${\boldsymbol{y}}$

The following example clears the log for all modem groups:

Router# clear modem log group

Clear modem log for modems in all groups [confirm] ${\boldsymbol{y}}$

The following example clears the log for modem group 0:

Router# clear modem log group 0

Clear modem log for modems in group 0 [confirm] ${\boldsymbol{y}}$

Related Commands	Command	Description
	group range	Creates a list of member asynchronous interfaces (associated with a group interface).
	interface group-async	Creates a group interface that will serve as master, to which asynchronous interfaces can be associated as members.
	show modem log	Displays the modem history event status performed on a manageable modem or group of modems.

clear modempool-counters

To clear the active or running counters associated with one or more modem pools, use the **clear modempool-counters** command in EXEC mode.

clear modempool-counters [name]

Syntax Description	name	(Optional) Modem pool name. If you do not include this option, all counters for all modem pools will be cleared.		
Command Modes	EXEC			
Command History	Release	Modification		
	11.2 P	This command was introduced.		
Usage Guidelines		nodempool-counters command clears the counters that are displayed in the show of command. This command is used only with MICA technologies digital modems.		
Examples	The following examples show three modem pools set up on the access server: System-def-Mpool, v90service, and v34service.			
	Router# sh o	ow modem-pool		
	modems in p	: System-def-Mpool pool: 20 active conn: 15 modems in pool		
	modems in p 3 no free called_par max conr	: v90service pool: 50 active conn: 43 e modems in pool rty_number: 4441000 n allowed: 50, active conn: 43 ponn exceeded, 3 no free modems in pool		
	modem-pool: modems in p 1 no free called_par max conr	: v34service pool: 50 active conn: 30 modems in pool rty_number: 4443000 n allowed: 50, active conn: 30 ponn exceeded, 0 no free modems in pool		
	In the follow	ving example, the clear modempool-counters v90service command clears the running the v90services modem pool.		
	Router# cl	ear modempool-counters v90service pow modem-pool		
	modem pool	Custom dof Moool		

modem-pool: System-def-Mpool
modems in pool: 20 active conn: 15
0 no free modems in pool

```
modem-pool: v90service
modems in pool: 50 active conn: 0
0 no free modems in pool
called_party_number: 4441000
max conn allowed: 50, active conn: 0
0 max-conn exceeded, 0 no free modems in pool
modem-pool: v34service
modems in pool: 50 active conn: 30
1 no free modems in pool
called_party_number: 4443000
max conn allowed: 50, active conn: 30
0 max-conn exceeded, 0 no free modems in pool
```

Related Commands	Command	Description
	called-number (modem pool)	Assigns a called party number to a pool of modems.
	modem-pool	Creates a new modem pool or specifies an existing modem pool, which allows you to physically or virtually partition your access server for dial-in and dial-out access.
	pool-member	Assigns a range of modems to a modem pool.
	show modem-pool	Displays the configuration and connection status for one or more modem pools.

clear port

To reset the NextPort port and clear any active call to the port, use the **clear port** command in EXEC mode.

Cisco AS5400 with NextPort DFC

clear port [slot | slot/port]

Cisco AS5800 with Universal Port Card

clear port [shelf/slot | shelf/slot/port]

Syntax Description	slot	(Optional) All ports on the specified slot. For the AS5400, slot values range from 0 to 7.
	slot/port	(Optional) All ports on the specified slot and SPE. For the AS5400, slot values range from 0 to 7 and port values range from 0 to 107.
	shelf/slot	(Optional) All ports on the specified shelf and slot. For the AS5800, shelf values range from 0 to 1 and UPC slot values range from 2 to 11.
	shelflslotlport	(Optional) All ports on the specified SPE. For the AS5800, shelf values range from 0 to 1, slot values range from 2 to 11, and port values range from 0 to 323.
Command Modes	EXEC	
Command History	Release	Modification
	12.1(1)XD	This command was introduced on the Cisco AS5400.
	12.1(3)T	This command was implemented on the Cisco AS5800.
Usage Guidelines	you only specify the	helf, slot, and port, you clear that port on that Service Processing Element (SPE). If e shelf and slot, you clear all active ports on that particular shelf and slot. If you do slot, or port, you clear all the ports on the access server.
Examples	The following exam DFC. This example	ple shows output from the clear port command on the Cisco AS5400 with NextPort clears slot 1, port 1:
	Router# clear por This will clear po	t 1/1 prt 1/01[confirm] y
	-	ple shows output from the clear port command on the Cisco AS5800 with universal nple clears shelf 1, slot 3, port 0:
	Router# clear por This will clear po	t 01/03/00 prt 1/03/00[confirm]y

Related Commands

Command	Description
busyout	Informs the central-office switch that a channel is out of service.
clear line	Returns a terminal line to idle state.
clear spe	Reboots all specified SPEs.
show port digital log	Displays the data event log for digital modems.
show port modem log	Displays the events generated by the modem sessions
show spe	Displays SPE status.
shutdown (port)	Disables a port.

clear port log

To clear all event entries in the port level history event log, use the **clear port log** command in EXEC mode.

Cisco AS5400 with NextPort DFC

clear port log [slot | slot/port]

Cisco AS5800 with Universal Port Card

clear port log [shelf/slot | shelf/slot/port]

Syntax Description	slot	(Optional) All ports on the specified slot. For the AS5400, slot values range from 0 to 7.
	slot/port	(Optional) All ports on the specified slot and SPE. For the AS5400, slot values range from 0 to 7 and port values range from 0 to 107.
	shelflslot	(Optional) All ports on the specified shelf and slot. For the AS5800, shelf values range from 0 to 1 and UPC slot values range from 2 to 11.
	shelflslotlport	(Optional) All ports on the specified SPE. For the AS5800, shelf values range from 0 to 1, slot values range from 2 to 11, and port values range from 0 to 323.
Command Modes	EXEC	
Command History	Release	Modification
	12.1(1)XD	This command was introduced on the Cisco AS5400.
	12.1(3)T	This command was implemented on the Cisco AS5800.
Usage Guidelines	from the port log.	og command clears the entire port log. You cannot remove individual service events . On the Cisco AS5400 only, you can use show port modem log and/or the show por play specific service events, but you must use clear port log to clear the entire port
Examples		ample shows output from the clear port log command on the Cisco AS5400 with his example clears slot 1, port 1:
	Router# clear p	ort log 1/1
	This will clear	log event history for port(s)1/01 - 1/01[confirm] y
	The following ex	ample shows output from the clear port log command on the Cisco AS5800 with rd. This example clears shelf 1, slot 3, port 0:

Related Commands	Command	Description
	show port digital log	Displays the data event log for digital modems.
	show port modem log	Displays the events generated by the modem sessions.

clear resource-pool

To reset the counter statistics associated with a specific customer profile, call discriminator, or physical resource, use the **clear resource-pool** command in privileged EXEC mode.

clear resource-pool {customer | discriminator | resource} {name | all}

Syntax Description	customer	Customer profi	le.
•	discriminator	Call discrimina	tor.
	resource	Physical resour	ce. Checks the counters maintained for resource groups.
	name	Specific custom	ner profile, discriminator, or physical resource in the access server.
	all	All customer pr	ofiles, discriminators, or physical resources in the access server.
Command Modes	Privileged EXE	С	
Command History	Release	Modification	
	12.0(4)XI	This command	was introduced.
Examples	The following e named custome	-	e use of the clear resource-pool command for the specific customer
		r-1sp: resource-pool	customer ?
	WORD Custom	er profile nam all customer p	e
	Router# clear Router#	resource-pool	customer customer_isp
Related Commands			
	Command		Description
	Command show resource	-pool call	Description Displays all active call information for all customer profiles and resource groups.
	show resource	-pool call -pool customer	Displays all active call information for all customer profiles and
	show resource	-pool customer	Displays all active call information for all customer profiles and resource groups.

clear snapshot quiet-time

To end the quiet period on a client router within 2 minutes, use the **clear snapshot quiet-time** command in EXEC mode.

clear snapshot quiet-time interface-type interface-number

Syntax Description	interface-type interface-number	Interface type and number.
Command Modes	EXEC	
Command History	Release	Modification
	10.3	This command was introduced.
Usage Guidelines	-	t quiet-time command places the client router in a state to reenter the active period The 2-minute hold period ensures a quiet period of at least 2 minutes between active
Usage Guidelines Examples	within 2 minutes. T periods. The following exar	The 2-minute hold period ensures a quiet period of at least 2 minutes between active nple ends the quiet period on dialer interface 1:
	within 2 minutes. T periods. The following exar	The 2-minute hold period ensures a quiet period of at least 2 minutes between active
	within 2 minutes. T periods. The following exar	The 2-minute hold period ensures a quiet period of at least 2 minutes between active nple ends the quiet period on dialer interface 1:
Examples	within 2 minutes. T periods. The following exar Router# clear sna	The 2-minute hold period ensures a quiet period of at least 2 minutes between active nple ends the quiet period on dialer interface 1:

clear spe

To reboot all specified Service Processing Elements (SPEs), use the clear spe command in EXEC mode.

Cisco AS5400 with NextPort DFC

clear spe [*slot* | *slot/spe*]

Cisco AS5800 with Universal Port Card

clear spe [shelf/slot | shelf/slot/spe]

Syntax Description	slot	(Optional) All ports on the specified slot. For the AS5400, slot values range from 0 to 7.	
	slot/spe	(Optional) All ports on the specified slot and SPE. For the AS5400, slot values range from 0 to 7 and SPE values range from 0 to 17.	
	shelf/slot	(Optional) All ports on the specified shelf and slot. For the AS5800, shelf values range from 0 to 1 and UPC slot values range from 2 to 11.	
	shelf/slot/spe	(Optional) All ports on the specified SPE. For the AS5800, shelf values range from 0 to 1, slot values range from 2 to 11, and SPE values range from 0 to 53.	
Command Modes	EXEC		
Command History	Release	Modification	
	12.1(1)XD	This command was introduced on the Cisco AS5400.	
	12.1(3)T	This command was implemented on the Cisco AS5800.	
Usage Guidelines	Execution of the clear spe command causes the configured firmware to be downloaded to the specified SPE or the range of SPEs and causes power-on self-test (POST) to be executed. This command can be executed regardless of the state of the SPEs.		
<u>Z:</u> Caution	All active ports running on the SPE are prematurely terminated and messages are logged into the appropriate log.		
	This command downloads configured SPEs with firmware as configured. Unconfigured SPEs download with the default firmware, which is the bundled version. To configure and mange the downloading of firmware without abruptly terminating SPEs, use the firmware location or firmware upgrade commands as appropriate.		

Examples The following example clears SPEs when the **clear spe** command is entered on the Cisco AS5400 with NextPort DFC. This example performs a coldstart on slot 1, SPE 1.

Router# **clear spe 1/1** Router# This will tear all active calls on the SPE(s), if any.[confirm]**y**

The following example clears SPEs when the **clear spe** command is entered on the Cisco AS5800 with universal port card. This example performs a coldstart on shelf 1, slot 8, SPE 0.

Router# clear spe 1/8/0 Router# This will tear all active calls on the SPE(s), if any.[confirm] \mathbf{y}

Related Commands	Command	Description
	busyout	Disables a port by waiting for the active services on the specified port to terminate.
	clear line	Returns a line to its idle state.
	clear port	Resets the NextPort port and clears any active call.
	show spe	Displays SPE status.
	shutdown (port)	Disables a port.
clear spe counters

To clear all statistics, use the **clear spe counters** command in EXEC mode.

Cisco AS5400 with NextPort DFC

clear spe counters [slot | slot/spe]

Cisco AS5800 with universal port card

clear spe counters [shelf/slot | shelf/slot/spe]

Syntax Description	slot	(Optional) All ports on the specified slot. For the AS5400, slot values range from 0 to 7.	
	slot/spe	(Optional) All ports on the specified slot and SPE. For the AS5400, slot values range from 0 to 7 and SPE values range from 0 to 17.	
	shelf/slot	(Optional) All ports on the specified shelf and slot. For the AS5800, shelf values range from 0 to 1 and UPC slot values range from 2 to 11.	
	shelf/slot/spe	(Optional) All ports on the specified SPE. For the AS5800, shelf values range from 0 to 1, slot values range from 2 to 11, and SPE values range from 0 to 53.	
Command Modes	EXEC		
Command History	Release	Modification	
	12.1(1)XD	This command was introduced on the Cisco AS5400.	
	12.1(3)T	This command was implemented on the Cisco AS5800.	
Usage Guidelines	-	nters command clears statistical counters of all service types for the specified SPE all the SPEs. If you do not set a parameter, you clear all SPE statistical counters.	
Examples	The following example clears all statistics when the clear spe counters command is entered on the Cisco AS5400 with NextPort DFC.		
	Router# clear spe counters 01/3 01/7 This will clear statistic counters for SPEs 1/03 - 1/07 [confirm] y		
	-	nple clears all statistics when the clear spe counters command is entered on the n universal port card. This example clears shelf 1, slot 3, ports 0 to 11.	
	Router# clear spe counters 01/03/00 01/03/11 This will clear statistic counters for SPEs 1/03/00 - 1/03/11[confirm] y		

clear spe log

To clear event entries in the slot history event log, use the clear spe log command in EXEC mode.

Cisco AS5400 with NextPort DFC

clear spe log [slot]

Cisco AS5800 with Universal Port Card

clear spe log [shelf/slot]

Syntax Description	slot	(Optional) All ports on the specified slot. For the AS5400, slot values range from 0 to 7.		
	shelf/slot	(Optional) All ports on the specified shelf and slot. For the AS5800, shelf values range from 0 to 1 and UPC slot values range from 2 to 11.		
Command Modes	EXEC			
Command History	Release	Modification		
	12.1(1)XD	This command was introduced on the Cisco AS5400.		
	12.1(3)T	This command was implemented on the Cisco AS5800.		
Examples	The following example shows output from the clear spe log command on the Cisco AS5400 with NextPort DFC. This example clears the SPE log from shelf 1, slot 3.			
	NextPort DFC. This example clears the SPE log from shell 1, slot 3. Router# clear spe log 1/03 This will clear slot event history for slot(s) 3 - 3[confirm]y The following example shows output from the clear spe log command on the Cisco AS5800 with universal port card. This example clears shelf 1, slot 8, SPE 0.			
	Router# clear spe This will clear s	a log 1/8/0 slot event history for slot(s) 8 - 8[confirm] y		
Related Commands	Command	Description		

clear vpdn history failure

To clear the content of the failure history table, use the **clear vpdn history failure** command in EXEC mode.

clear vpdn history failure

Syntax Description	This command has no arguments or keywords.	
Command Modes	EXEC	
Command History	Release	Modification This command was introduced.
Examples	The following example clears the content of the failure history table: Router# clear vpdn history failure	

clear vpdn tunnel

To shut down a specified tunnel and all sessions within the tunnel, use the **clear vpdn tunnel** command in EXEC mode.

clear vpdn tunnel [pptp | l2f | l2tp] network-access-server gateway-name

Syntax Description	pptp	(Optional) Clears the specified Point-to-Point Tunneling Protocol (PPTP) tunnel.
	l2f	(Optional) Clears the specified Layer 2 Forwarding (L2F) tunnel.
	l2tp	(Optional) Clears the specified Layer 2 Tunneling Protocol (L2TP) tunnel.
	network-access-server	Name of the network access server at the far end of the tunnel, probably the point of presence of the public data network or the ISP.
	gateway-name	Host name of home gateway at the local end of the tunnel.
Command Modes	EXEC	
Command History	Release	Modification
	11.2	This command was introduced.
	11.3(5)AA	The l2tp keyword was added.
	12.0(1)T	The l2f keyword was added.
	12.0(5)XE5	The pptp keyword was added.
	12.1(5)T	The pptp keyword was updated for additional Cisco access servers or routers.
Usage Guidelines	Use this command to clear a specific tunnel and all sessions within the tunnel. You can also use this command to isolate problems by forcing a tunnel to come down without deconfiguring the tunnel (tunnel can be restarted immediately by a user logging in). You can also use this command to isolate problems by forcing a tunnel to come down without deconfiguring the tunnel (the tunnel can be restarted immediately by having the user log in). If you are using the 12tp keyword, you can clear the tunnel by matching either the remote name or rem	
Examples	name and local name. The following example Router# clear vpdn tu The following example of	clears a tunnel to a remote peer named sophia: mnel 12tp mugsy sophia clears a tunnel between a network access server called orion and a home gateway
	called sampson: Router# clear vpdn tu	nnel orion sampson

clid group

To add a calling line identifier (CLID) group to a discriminator, use the **clid group** command in CLID configuration mode. To remove a CLID group from a discriminator, use the **no** form of this command.

clid group {clid-group-name | default}

no clid group {clid-group-name | default}

Syntax Description		
	clid-group-name	Name of the CLID group added to the discriminator. You can add an existing CLID group or one that is to be defined. Discrimination does not happen until the CLID group is defined.
	default	Default discrimination profile. Any CLID number coming in on a call is in its respective default group unless it is specifically assigned a CLID group name.
efaults	CLID screening is not u	sed.
ommand Modes	CLID configuration	
Command History	Release	Modification
	12.1(5)T	This command was introduced.
lsage Guidelines	Use the clid group com	This command was introduced. mand to add a CLID group (which specifies the calls to reject) to the e the default option, CLID call screening is not used.
	Use the clid group com discriminator. If you use	mand to add a CLID group (which specifies the calls to reject) to the the default option, CLID call screening is not used. shows a call discriminator named clidKiller created and configured to block
-	Use the clid group com discriminator. If you use The following example s digital calls from the CL	mand to add a CLID group (which specifies the calls to reject) to the the default option, CLID call screening is not used. shows a call discriminator named clidKiller created and configured to block
xamples	Use the clid group com discriminator. If you use The following example a digital calls from the CL resource-pool profile call-type digital	mand to add a CLID group (which specifies the calls to reject) to the the default option, CLID call screening is not used. shows a call discriminator named clidKiller created and configured to block LID group named zot .
Jsage Guidelines Examples Related Commands	Use the clid group comin discriminator. If you use The following example a digital calls from the CL resource-pool profile call-type digital clid group zot	mand to add a CLID group (which specifies the calls to reject) to the e the default option, CLID call screening is not used. shows a call discriminator named clidKiller created and configured to block JD group named zot . discriminator clidKiller

clock source line

To set the E1 line clock source for the Cisco AS5200 access server, use the **clock source line** command in controller configuration mode. To change or remove the clocking source, use the **no** form of this command.

clock source line {primary | secondary}

no clock source line {primary | secondary}

Syntax Description	primary	Primary TDM clock source.
	secondary	Secondary TDM clock source.
Defaults	Primary TDM o	clock source is taken from the E1 controller 0 on the Cisco AS5200.
	Secondary TDM	M clock source is taken from the E1 controller 1 on the Cisco AS5200.
Command Modes	Controller conf	iguration
Command History	Release	Modification
	11.1	This command was introduced.
		st known clocking. With this configuration, the primary line clocking is backed up to the if the primary clocking shuts down.
Examples	-	example configures the Cisco AS5200 to use E1 controller 0 as the primary clocking
	controller e1 framing esf linecode hdb2 pri-group tin	3 meslots 1-23 line primary

Related Commands

Command	Description
clear controller	Resets the T1 or E1 controller.
controller	Configures a T1 or E1 controller and enters controller configuration mode.
linecode	Selects the linecode type for T1 or E1 line.
show controllers e1	Displays information about the E1 links supported by the NPM (Cisco 4000) or MIP (Cisco 7500 series).

I

copy modem

To copy modem firmware to integrated modems in an access server, use the **copy modem** command in EXEC mode.

copy {flash | tftp | rcp} modem



Г

```
Router#

%MODEM-5-DL_START: Modem (2/0) started firmware download

%MODEM-5-DL_GOOD: Modem (2/0) completed firmware download:

MNPClass10V.34/V.FCModemRev1.0.23/85.23/85
```

As shown in this example, you might want to upgrade and test one modem's firmware before upgrading the firmware of all the modems on the access server, as shown in the next example.

The following example downloads the same modem firmware file from the TFTP server to all the modems in the Cisco AS5200 access server:

```
Router# copy tftp modem
```

```
Modem Numbers (<slot>/<port>[-<slot>/<port>] | group <number> | all)? all
Address or name of remote host [UNKNOWN]? Modem_Server
Source file name? dirt/elem/modem_upgrade
Accessing file 'dirt/elem/modem_upgrade on Modem_Server...
Loading dirt/elem/modem_upgrade .from 192.168.254.254 (via Ethernet0): ! [OK]
Loading dirt/elem/modem_upgrade from 192.168.254.254 (via Ethernet0):
[OK - 237503/278528 bytes]
Router#
%MODEM-5-DL_START: Modem (2/0) started firmware download
%MODEM-5-DL_START: Modem (2/1) started firmware download
%MODEM-5-DL START: Modem (2/2) started firmware download
%MODEM-5-DL_START: Modem (2/3) started firmware download
%MODEM-5-DL_START: Modem (2/4) started firmware download
%MODEM-5-DL_START: Modem (2/5) started firmware download
%MODEM-5-DL_START: Modem (2/6) started firmware download
%MODEM-5-DL_START: Modem (2/7) started firmware download
%MODEM-5-DL_START: Modem (2/8) started firmware download
%MODEM-5-DL_START: Modem (2/9) started firmware download
%MODEM-5-DL_START: Modem (2/10) started firmware download
%MODEM-5-DL_START: Modem (2/11) started firmware download
%MODEM-5-DL_START: Modem (2/12) started firmware download
%MODEM-5-DL_START: Modem (2/13) started firmware download
%MODEM-5-DL_START: Modem (2/14) started firmware download
%MODEM-5-DL_START: Modem (2/15) started firmware download
%MODEM-5-DL_START: Modem (2/16) started firmware download
%MODEM-5-DL_START: Modem (2/17) started firmware download
%MODEM-5-DL_START: Modem (2/18) started firmware download
%MODEM-5-DL_START: Modem (2/19) started firmware download
%MODEM-5-DL_START: Modem (2/20) started firmware download
%MODEM-5-DL_START: Modem (2/21) started firmware download
%MODEM-5-DL_START: Modem (2/22) started firmware download
%MODEM-5-DL_START: Modem (2/23) started firmware download
%MODEM-5-DL_GOOD: Modem (2/2) completed firmware download:
MNPClass10V.34/V.FCModemRev1.0.23/85.23/85
%MODEM-5-DL_GOOD: Modem (2/10) completed firmware download:
MNPClass10V.34/V.FCModemRev1.0.23/85.23/85
%MODEM-5-DL_GOOD: Modem (2/4) completed firmware download:
MNPClass10V.34/V.FCModemRev1.0.23/85.23/85
%MODEM-5-DL_GOOD: Modem (2/6) completed firmware download:
MNPClass10V.34/V.FCModemRev1.0.23/85.23/85
%MODEM-5-DL_GOOD: Modem (2/7) completed firmware download:
MNPClass10V.34/V.FCModemRev1.0.23/85.23/85
%MODEM-5-DL_GOOD: Modem (2/12) completed firmware download:
MNPClass10V.34/V.FCModemRev1.0.23/85.23/85
%MODEM-5-DL_GOOD: Modem (2/11) completed firmware download:
MNPClass10V.34/V.FCModemRev1.0.23/85.23/85
```

%MODEM-5-DL_GOOD: Modem (2/13) completed firmware download: MNPClass10V.34/V.FCModemRev1.0.23/85.23/85 %MODEM-5-DL_GOOD: Modem (2/1) completed firmware download: MNPClass10V.34/V.FCModemRev1.0.23/85.23/85 %MODEM-5-DL_GOOD: Modem (2/14) completed firmware download: MNPClass10V.34/V.FCModemRev1.0.23/85.23/85 %MODEM-5-DL_GOOD: Modem (2/19) completed firmware download: MNPClass10V.34/V.FCModemRev1.0.23/85.23/85 %MODEM-5-DL_GOOD: Modem (2/22) completed firmware download: MNPClass10V.34/V.FCModemRev1.0.23/85.23/85 %MODEM-5-DL_GOOD: Modem (2/5) completed firmware download: MNPClass10V.34/V.FCModemRev1.0.23/85.23/85 %MODEM-5-DL_GOOD: Modem (2/8) completed firmware download: MNPClass10V.34/V.FCModemRev1.0.23/85.23/85 %MODEM-5-DL_GOOD: Modem (2/9) completed firmware download: MNPClass10V.34/V.FCModemRev1.0.23/85.23/85 %MODEM-5-DL_GOOD: Modem (2/17) completed firmware download: MNPClass10V.34/V.FCModemRev1.0.23/85.23/85 %MODEM-5-DL_GOOD: Modem (2/0) completed firmware download: MNPClass10V.34/V.FCModemRev1.0.23/85.23/85 %MODEM-5-DL_GOOD: Modem (2/3) completed firmware download: MNPClass10V.34/V.FCModemRev1.0.23/85.23/85 %MODEM-5-DL_GOOD: Modem (2/21) completed firmware download: MNPClass10V.34/V.FCModemRev1.0.23/85.23/85 %MODEM-5-DL_GOOD: Modem (2/16) completed firmware download: MNPClass10V.34/V.FCModemRev1.0.23/85.23/85 %MODEM-5-DL_GOOD: Modem (2/15) completed firmware download: MNPClass10V.34/V.FCModemRev1.0.23/85.23/85 %MODEM-5-DL_GOOD: Modem (2/18) completed firmware download: MNPClass10V.34/V.FCModemRev1.0.23/85.23/85 %MODEM-5-DL_GOOD: Modem (2/20) completed firmware download: MNPClass10V.34/V.FCModemRev1.0.23/85.23/85 %MODEM-5-DL_GOOD: Modem (2/23) completed firmware download: MNPClass10V.34/V.FCModemRev1.0.23/85.23/85

The following example copies the modem firmware file called STAR.M from Flash memory to the integrated modem 1/2:

Router# copy flash modem

Modem Numbers (<slot>/<port> | group <number> | all)? 1/2 System flash directory: File Length Name/status 3539820 as5200-i-m.allcookies 1 2 239203 STAR.M 3 23072 BOOT.105 [3802288 bytes used, 4586320 available, 8388608 total] Source file name? STAR.M Router# %MODEM-5-DL_START: Modem (1/2) started firmware download %MODEM-5-DL_GOOD: Modem (1/2) completed firmware download: MNPClass10V.34/V.FCModemRev1.0.23/85.23/85 Router

Related Commands	Command	Description
	сору	Copies any file from a source to a destination.
	spe	Enters SPE configuration mode and sets the range of SPEs.

corlist incoming

To specify the class of restrictions (COR) list to be used when a specified dial peer acts as the incoming dial peer, use the **corlist incoming** command in dial-peer configuration mode. To clear the previously defined incoming COR list in preparation for redefining the incoming COR list, use the **no** form of this command.

corlist incoming *cor-list-name*

no corlist incoming *cor-list-name*

Syntax Description	cor-list-name	Name of the dial peer COR list that defines the capabilities that the specified dial peer has when it is used as an incoming dial peer.
Defaults	No default behav	ior or values.
Command Modes	Dial-peer configu	iration
Command History	Release	Modification
	12.1(3)T	This command was introduced.
Usage Guidelines	The dial-peer cor list and member commands define a set of capabilities (a COR list). These lists are used in dial peers to indicate the capability set that a dial peer has when it is used as an incoming dial peer (the corlist incoming command) or to indicate the capability set that is required for an incoming dial peer to make an outgoing call through the dial peer (the corlist outgoing command). For example, if dial peer 100 is the incoming dial peer and its incoming COR list name is list_100, dial peer 200 has list_200 as the outgoing COR list name. If list_100 does not include all the members of list_200 (that is, if list_100 is not a superset of list_200), it is not possible to have a call from dial peer 100 that uses dial peer 200 as the outgoing dial peer.	
Examples	In the following example, incoming calls from 526 are blocked from being switched to 1900 because the COR list for the incoming dial peer (list2) is not a superset of the the outgoing dial peer (list1):	
	dial-peer list member 900_cal	
	dial-peer list member 800_cal member other_c	1
	dial-peer voice answer-address corlist incomi direct-inward-	408526 ng list2

```
dial-peer voice 900 pots
destination pattern 1900.....
direct-inward-dial
trunkgroup 101
prefix 333
 corlist outgoing list1
```

Related Commands

Command	Description
corlist outgoing	Specifies the COR list to be used by outgoing dial peers.
dial-peer cor list	Defines a COR list name.
member	Adds a member to a dial peer COR list.

corlist outgoing

To specify the class of restrictions (COR) list to be used by outgoing dial peers, use the **corlist outgoing** command in dial-peer configuration mode. To clear the previously defined outgoing COR list in preparation for redefining the outgoing COR list, use the **no** form of this command.

corlist outgoing *cor-list-name*

no corlist outgoing cor-list-name

Syntax Description	cor-list-name	Required name of the dial peer COR list for outgoing calls to the configured number using this dial peer.	
Defaults	No default behavior	or values.	
Command Modes	Dial-peer configurat	ion	
Command History	Release	Modification	
	12.1(3)T	This command was introduced.	
Usage Guidelines		he incoming dial peer is not a superset of the COR list for the outgoing dial peer, hing dial peer cannot use that outgoing dial peer.	
Examples	-	mple, incoming calls from 526 are blocked from being switched to outgoing calls he COR list for the incoming dial peer (list2) is not a superset of the COR list for er (list1):	
	dial-peer list lis member 900_call		
	dial-peer list lis member 800_call member other_call		
	dial-peer voice 526 pots answer-address 408526 corlist incoming list2 direct-inward-dial		
	dial-peer voice 90 destination patte direct-inward-dia trunk group 101 prefix 333 corlist outgoing	ern 1900 al	

Related Commands	Command	Description
	corlist incoming	Specifies the COR list to be used when a specified dial peer acts as the incoming dial peer.
	dial-peer cor list	Defines a COR list name.
	member	Adds a member to a dial peer COR list.

cpp authentication

To enable negotiation of authentication with a router or bridge that supports the Combinet Proprietary Protocol (CPP) and that is calling in to this router, use the **cpp authentication** command in interface configuration mode. To disable negotiation of CPP authentication, use the **no** form of this command.

cpp authentication

no cpp authentication

- **Syntax Description** This command has no arguments or keywords.
- Defaults Disabled
- **Command Modes** Interface configuration

Command History	Release	Modification	
	11.2	This command was introduced.	

Use this command for authenticating the device that is calling in to this router.

Use this command to communicate over an ISDN interface with Cisco 700 and 800 series (formerly Combinet) routers that do not support PPP but do support the CPP.

Currently, most Cisco routers *do* support PPP. Cisco routers can communicate over ISDN with these devices by using PPP encapsulation, which supports both routing and fast switching.

This command is supported on ISDN and dialer interfaces.

This command uses names and passwords from the **username password** command. It does not support TACACS.

Examples

The following example configures a PRI to communicate with a bridge that does not support PPP:

```
controller t1 1/1
framing esf
linecode b8zs
pri-group timeslots 1-23
isdn switchtype primary-4ess
```

interface Serial1/1:23
encapsulation cpp
cpp callback accept
cpp authentication

The following example configures a BRI to communicate with a bridge that does not support PPP:

```
interface bri 0
encapsulation cpp
cpp callback accept
cpp authentication
```

Related Commands	Command	Description	
	cpp callback accept	Enables the router to accept callback from a router or bridge that supports the CPP.	
	encapsulation cpp	Enables encapsulation for communication with routers or bridges using the CPP.	
	virtual-profile aaa	Enables virtual profiles by AAA configuration.	

cpp callback accept

To enable the router to accept callback from a router or bridge that supports the Combinet Proprietary Protocol (CPP), use the **cpp callback accept** command in interface configuration mode. To disable callback acceptance, use the **no** form of this command.

cpp callback accept

no cpp callback accept

Syntax Description This command has no arguments or keywords.

Defaults Disabled

Command Modes Interface configuration

Command History	Release	Modification
	11.2	This command was introduced.

Usage Guidelines Use this command to communicate over an ISDN interface with Cisco 700 and 800 series (formerly Combinet) routers that do not support PPP but do support CPP. Currently most Cisco series do support PPD Cisco series and compared to the support CPP.

Currently, most Cisco routers *do* support PPP. Cisco routers can communicate over ISDN with these devices by using PPP encapsulation, which supports both routing and fast switching.

This command is supported on ISDN and dialer interfaces.

Examples

The following example configures the PRI serial interface 1/1:23 to communicate with a router or bridge that does not support PPP:

```
controller t1 1/1
framing esf
linecode b8zs
pri-group timeslots 1-23
isdn switchtype primary-4ess
!
interface Serial1/1:23
encapsulation cpp
cpp callback accept
cpp authentication
```

The following example configures BRI 0 to communicate with a router or bridge that does not support PPP:

```
interface bri 0
encapsulation cpp
cpp callback accept
cpp authentication
```

Related Commands	Command	Description
	cpp authentication	Enables negotiation of authentication with a router or bridge that supports the CPP and that is calling in to this router.
	encapsulation cpp	Enables encapsulation for communication with routers or bridges using the CPP.