

Comparing NextPort SPE Commands to MICA Modem Commands

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Introduction

This document compares the Software Port Entity (SPE) commands with their equivalent MICA commands.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

The information in this document is based on a Cisco AS5400 that runs Cisco IOS® Software Release 12.1(4.1)T.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

For more information on document conventions, refer to the Cisco Technical Tips Conventions.

NextPort to MICA Command Translations

EXEC Commands

Command	Description	Equivalent MICA Commands
show spe [<i>slot/spe</i>] [<i>slot/spe</i>]	To show the SPE status.	None
show spe log [<i>reverse</i>] [<i>slot</i>]	To show the SPE system log.	None
show spe modem summary [<i>slot/spe</i>] [<i>slot/spe</i>]	To show the modem service history statistics for specified SPEs.	show modem [<i>slot/port</i>]
show spe modem active [<i>slot/spe</i>] [<i>slot/spe</i>]	To show the statistics of all active calls on specified SPEs.	show modem
show spe modem csr [[<i>slot/spe</i> / <i>slot/spe-range</i>] summary [<i>slot/spe-range</i>]]	To display the call success rate (CSR) for the specified SPE.	None
show spe modem disconnect-reason [<i>slot/spe</i>] [<i>slot/spe</i>]] [<i>slot</i> [<i>slot</i>]] [summary]	To display all modem disconnect reasons for the specified SPE.	show modem call-stats
show spe modem high speed [<i>slot/spe</i>] <i>slot/spe</i>] [summary]	To display the total number of connections that have been negotiated within each modulation or coder-decoder (codec) for specific range of SPEs.	show modem speed
show spe modem high standard [<i>slot/spe</i>] [<i>slot/spe</i>] [summary]	To display the total number of connections that have been negotiated within each high modulation or codec for a specific range of SPEs or for all the SPEs.	None
show spe modem low speed [<i>slot/spe</i>] <i>slot/spe</i>] [summary]	To display the connect-speeds negotiated within each low speed modulation or codec	show modem speed

	for a specific range of SPEs or for all the SPEs.	
show spe modem low standard [<i>slot[/spe]</i> <i>slot[/spe]</i> summary]	To display the total number of connections that have been negotiated within each low modulation or codec for a specific range of SPEs or for all the SPEs.	None
show spe version [<i>slot[/spe]</i> <i>slot[/spe]</i>]	To display all MICA and NextPort firmware versions that are stored in Flash, and the firmware assigned to each SPE.	show modem mapping
show port modem log [reverse] [<i>slot[/port]</i> <i>slot[/port]</i>]	To display the events generated by the	show modem log
show port operational-status [<i>slot[/port]</i> <i>slot[/port]</i>]	To display the statistics of the current active	show modem operational-status
show port config [<i>slot[/port]</i> <i>slot[/port]</i>]	session. To display the configuration parameters of the current active session.	show modem config
clear spe [<i>slot/spe</i> <i>slot/spe</i>]	To reboot all specified SPEs. All calls will be torn down.	None
clear spe counters [<i>slot[/spe]</i> <i>slot[/spe]</i>]	To clear all statistics.	clear modem counters
clear spe log [<i>slot</i>]	To clear all log entries for specified SPEs.	clear modem log
clear port [<i>slot/port</i> <i>slot/port</i>]	To activate shut and no shut on specified ports.	clear modem
clear port log [<i>slot/port</i>] [<i>slot/port</i>]	To clear all log entries for the specified ports.	clear modem log
show port modem calltracker	To display call tracker information.	show modem calltracker

[<i>slot[/port] slot[/port]</i>]	For details, see Call Tracker plus ISDN and AAA Enhancements for the Cisco AS5300 and Cisco AS5800.	
show port modem test [<i>slot[/port] slot[/port]</i>]	To display port modem test results.	show modem test

SPE Configuration Commands

Command	Description	Equivalent MICA Commands
spe country	To set the system country code.	modem country
spe log-size	To set the maximum log entries for each port.	modem buffer-size
spe poll [auto time][retry]	To set the statistic polling interval.	modem poll
spe call-record	To generate a modem call record at the end of each call.	modem call-record
spe [<i>slot/spe slot/spe</i>]	To configure the SPE.	Already implemented on the AS5300 and AS5800 platforms.
busyout	To gracefully busy out active calls.	modem busyout
shutdown	To tear down all active calls on the specified SPEs.	modem shutdown
port modem autotest	To enable modem autotest.	modem autotest
port modem startup-test	To run a statup test on all the modems when the system boots up.	modem startup-test
firmware upgrade [busyout reboot recovery]	To specify the upgrade method.	Already implemented on the 5300 platform.
firmware location <i>filename</i>	To specify the firmware file to be upgraded.	Implemented on the 5300 and 5800 platforms.

Port Configuration Commands

Command	Description	Equivalent MICA Commands
port [<i>slot/port</i> <i>slot/port</i>]	To configure the port range.	modem range
default [busyout shutdown]	To display the value of the command to its default value.	default modem busyout-threshold
busyout	To busy out a port.	modem busyout
shutdown	To shut down a port.	modem shutdown

Testing and Debugging Commands

Command	Description	Equivalent MICA Commands
debug port modem [maintenance] [<i>slot/spe</i> <i>slot/spe</i>]	To debug modem maintenance.	debug modem maintenance
debug spe country	To display port management SPE country information.	None
debug spe download-maintenance	To display port management download maintenance.	debug modem mica download
debug spe fm	To debug firmware management.	debug modem maintenance
debug spe sm	To debug the SPE state machine.	None
debug spe modem [error statistics trace]	To display SPE modem statistics.	debug modem [csn trace]
debug csm modem [group] [<i>slot/spe</i>]	To display call switching module (CSM) modem call information.	debug modem csm
debug csm busyout	To display CSM busyout events.	debug csm busyout
debug csm neat	To display CSM neat events.	debug csm neat
debug nextport bs [api cli detail]	To debug the NextPort bootstrap.	None
debug nextport cli	To test the NextPort	None

	command line interface (CLI) unit.	
debug nextport ddsd [api command detail response]	To display the NextPort Digital Data Services	None
debug nextport dfc [api cli detail]	Manager. To debug the NextPort Dial Feature Card (DFC).	None
debug nextport est [module api data rcv]	To debug NextPort	None
debug nextport fd	EST. To debug NextPort Formatter and Dispatcher.	None
debug nextport gdb	To debug NextPort GDB source code.	None
debug nextport md [api callbacks frame-error init oir rx throttle]	To debug the NextPort modem	None
debug nextport mm [api cli detail]	driver. To debug the NextPort module manager.	None
debug nextport msmgr [command detail response]	To debug the NextPort modem	None
debug nextport np-address	Service manager. address conversion from slot/port to NextPort.	None
debug nextport secondaryq	To debug the control message secondary queue.	debug modem oob
debug nextport siglib [command detail response]	To debug the NextPort Signalling	None
debug nextport spe [api cli detail]	Service Library. To debug the NextPort SPE Manager.	None
debug nextport ssm [api command detail oir response]	To debug the Nextport Session and Service	None
test nextport Bs [crash_info keepalive]	Manager. To test the bootstrap	None
test nextport ddsd api	unit test facility. To test the DDSM	None

[get-llc-parameters get-state set-ppp-escape-map]	Cisco IOS NextPort Application Programming Interface (API).	
test nextport dds command [get-llc-parameters get-running-parms get-state set-ppp-escape-map]	To test the DDSM NextPort command messages.	None
test nextport EST [add cmdnak delete overflow read realtime reporting trace rwite]	To test the EST Manager unit test facility.	None
test nextport mm [add country crash delete downloaded hiirq keepalive loirq nak1 nak2 nak3 nop norestart overflow qfail qok reporting reset restart runtime secondaryq]	To test the Module Manager test facility.	None
test nextport NP-address <1-6>	To change the number of sessions per SPE.	None
test nextport recovery threshold <1-10>	To test the failure count that triggers recovery.	None
test nextport set [dfc module port slot spe] number	To set the test parameters.	None
test nextport siglib [api command]	To test the Signaling Library Unit Test Facility.	None
test nextport spesm information [buffers bout [slot[/spe]]]	To test the SPE SM test commands.	None
test nextport ssm [api call-back command set [base-params block-enable params-count service-type]	To test the Unit Test Facility.	None
test port modem back-to-back slot/spe slot/spe	To execute back-to-back modem test	test modem back-to-back port slot/port
test oir [slot <1-8>	To test oir	None

[insert remove]]	insertion and removal (OIR) simulation.	
busyout <slot number>	To test graceful OIR removal.	None

MICA to Nextport Command Translations

EXEC Commands

Command	Description	Equivalent NextPort Commands
show modem [slot/port]	To show the modem service history statistics for specified SPEs.	show spe modem summary [slot/spe] [slot/spe]
show modem	To show the statistics of all active calls on specified SPEs.	show spe modem active [slot/spe] [slot/spe]
show modem call-stats	To display all modem disconnect reasons for the specified SPEs.	show spe modem disconnect-reason [slot/spe] [slot/spe]] [slot [slot]] [summary]
show modem speed	To display the total number of connections that have been negotiated within each modulation or coder-decoder (codec) for specific range of SPEs.	show spe modem high speed [slot/spe] slot[/spe] [summary]
show modem speed	To display the connect-speeds negotiated within each low speed modulation or codec for a specific range of SPEs or for all the SPEs.	show spe modem low speed [slot/spe] slot[/spe] [summary]
show modem mapping	To display all MICA and NextPort firmware versions that are stored in Flash, and the firmware assigned to each SPE.	show spe version [slot/spe] slot[/spe]]

show modem log	To display the events generated by the modem sessions.	show port modem log [reverse] [slot/port] slot[/port]]
show modem operational–status	To display the statistics of the current active session.	show port operational–status [slot/port] slot[/port]]
show modem config	To display the configuration parameters of the current active session.	show port config [slot/port] slot[/port]]
clear modem counters	To clear all statistics.	clear spe counters [slot/spe] slot[/spe]]
clear modem log	To clear all log entries for specified SPEs.	clear spe log [slot]
clear modem	To activate shut and no shut on specified ports.	clear port [slot/port] slot/port]
clear modem log	To clear all log entries for the specified ports.	clear port log [slot/port] [slot/port]
show modem calltracker	To display call tracker information. For more information, see Call Tracker plus ISDN and AAA Enhancements for the Cisco AS5300 and Cisco AS5800.	show port modem calltracker [slot/port] slot[/port]]
show modem test	To display port modem test results.	show port modem test [slot/port] slot[/port]]

SPE Configuration Commands

Command	Description	Equivalent NextPort Commands
modem country	To set the system country code.	spe country
modem buffer–size	To set the maximum log entries for each port.	spe log–size
modem poll	To set the statistic polling interval.	spe poll [auto time][retry]

modem call-record	To generate a modem call record at the end of each call.	spe call-record
spe [<i>slot/spe</i> <i>slot/spe</i>] (Already implemented on the AS5300 and AS5800 platforms.)	To configure the SPE.	spe [<i>slot/spe</i> <i>slot/spe</i>]
modem busyout	To gracefully busyout active calls.	busyout
modem shutdown	To tear down all active calls on the specified SPEs.	shutdown
modem autotest	To enable modem autotest.	port modem autotest
modem startup-test	To run a startup test on all the modems when the system boots up.	port modem startup-test
firmware upgrade [busyout reboot recovery] (Already implemented on the 5300 platform.)	To specify the upgrade method.	firmware upgrade
firmware location <i>filename</i> (Already implemented on the 5300 and 5800 platforms.)	To specify the firmware file to be upgraded.	[busyout reboot recovery] firmware location <i>filename</i>

Port Configuration Commands

Command	Description	Equivalent NextPort Commands
modem range	To configure the port range.	port [<i>slot/port</i> <i>slot/port</i>]
default modem busyout	To display the value of the command to its default value.	default [busyout shutdown]
modem busyout	To busy out a port.	busyout
modem shutdown	To shut down a port.	shutdown

Testing and Debugging

Command	Description	Equivalent NextPort Commands
debug modem maintenance	To debug modem maintenance.	debug port modem [maintenance] [slot[/spe] slot[/spe]]
debug modem mica download	To display port management download maintenance.	debug spe download–maintenance
debug modem maintenance	To debug firmware management.	debug spe fm
debug modem [csm trace]	To display SPE	debug spe modem [error
debug modem csm	modem statistics. To display call switching module (CSM) modem call information.	statistics trace] debug csm modem [group] [slot/spe]
debug csm busyout	To display CSM busyout events.	debug csm busyout
debug csm neat	To display CSM neat events.	debug csm neat
debug modem oob	To debug the control message secondary queue.	debug nextport secondaryq
test modem back-to-back slot/port slot/port	To execute back-to-back modem tests.	test port modem back-to-back slot/spe slot/spe

Related Information

- [Dial Technology Support Page](#)
- [Managing Port Services on the Cisco AS5400 Universal Access Server](#)
- [Managing and Troubleshooting the Universal Port Dial Feature Card](#)
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