



# Command Line Interface Overview

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This chapter describes the command line interface (CLI) for the SES PNNI controller. For information on how to configure a switch and basic network services, refer to the *Cisco SES PNNI Controller Software Configuration Guide, Release 3.0*.

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## Role of the Command Line Interface

The tools for configuring, monitoring, and controlling a switch are the CiscoView application for equipment management and the Cisco WAN Manager (CWM) application for connection management. However, during initial switch installation, or where low-level control is important, the CLI provides the best access to the switch.

To move from the CLI of one card to the CLI of another card, use the **cc** command. For more information on the **cc** command, see [Chapter 3, “Alphabetical Listing of SES PNNI Controller Commands.”](#)

## Access Level

The available command set depends on the privilege level of the user.

The following access levels are shown in descending order:

```
CISCO_GP (engineering debug)
SERVICE_GP (strategic partner)
SUPER_GP (network manager)
GROUP1 (highest technician level)
GROUP2
GROUP3
GROUP4
GROUP5 (lowest technician level)
ANYUSER (anyuser)
NOUSER_GP
```

# Command Line Interface Prompt

The following format is for the CLI prompt:

*name.slot number.card type.card state>*

The following definitions are for each parameter:

<i>name</i>	Specifies the name of the node. <b>Note</b> The name is unknown until you assign a name by using the <b>cnfname</b> command.
<i>slot number</i>	Specifies the slot of the front card.
<i>card type</i>	Identifies the Processor Switching Module 1 (PXM1) or type of service module.
<i>card state</i>	Defines the following states: <ul style="list-style-type: none"> <li>• “a” is for active. A card in the active (a) state is fully configured and ready to carry out its function or is already performing its functions in live traffic.</li> <li>• “s” is for standby. Typically, a card goes into the standby (s) state when it first powers up and boots or when you execute a command that puts it in the standby state.</li> </ul>

The following is an example of the CLI prompt:

```
SES_SJ.1.PXM.a >
```

where:

- Name of the node is SES\_SJ.
- Slot number is 1.
- Card type is PXM1.
- Card state is active.

## Command Syntax

This section contains the following syntax areas:

- [Notation](#)
- [Command Entry](#)
- [Port Identifier](#)

The SES PNNI controller command syntax complies with the syntax defined by the Cisco MGX 8800. The syntax supported is as follows:

```
Command ::= CMD_STRARG | CMD_VWARG | CMD_CALLXSTURCT | CMD_CALLXPSTRUCT
CMD_STRARG ::= command-name <value1> <value2> ... <valueN>
CMD_VWARG  ::= command-name <value1> <value2> ... <valueN>
CMD_CALLXSTRUCT ::= command-name <value1> <value2> ... [<valueN>]
CMD_CALLXPSTRUCT ::= command-name <value1> <value2> ... [<valueM>]
-key1 <value1> [-key2 <value2>] ... [-keyN <valueN>]
```

Description:

- 1) CMD\_STRARG is the command in which all arguments are passed as char

strings.

- 2) CMD\_VWARG is for calling VxWorks style routine.
- 3) In CMD\_CALLXSTRUCT, the sequence of parameters are fixed, i.e. position dependent.
- 4) In CMD\_CALLXPSTRUCT, it contains a list of fixed parameters that are position dependent and a list of keyword parameters that are position independent.

## Notation

The following notations are used for the command and argument parameters:

- Commands and their parameters are separated by a space.
- Variables appear in *italics*.
- Keywords and commands appear in **bold**.
- Required arguments appear within left and right arrowheads (“< >”).
- Optional parameters appear within square brackets (“[ ]”).
- A vertical bar (|) represents the logical OR function.

## Command Entry

When you enter a command with the current version of the product, you must type all intended arguments before you press the **Return** key or **Enter** key.

If you press either the **Return** key or **Enter** key with incorrect parameters or no parameters (if the command requires parameters), a message displays the syntax and parameter ranges. The returned message can also indicate the type of problem. For example, the message can warn of too few parameters.



Note

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No error messages or warnings appear until you complete the command.

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## Port Identifier

The following format is used in the CLI to identify ports:

*[shelf.]slot[:subslot].port[:subport]*

This is a generic port identifier, which is independent of specific platform. The interpretation of the identifier depends on the platform. For instance, the optional **subslot** field is used to identify the back card for AXSM, and the same field is not used for the BXM cards. The optional **subport** is used to identify a VP tunneling interface in both of the cards aforementioned.

In this chapter, <portid> stands for the string “[shelf.]slot[:subslot].port[:subport].”

Any reference to the PNNI port or <portid> refers to the PNNI partition on the switch and not the Physical port itself. Any operation on <portid> affects only the PNNI partition associated with it on the switch.

# Contents of a Command Description

Each command description contains the following:

- Introductory paragraph that explains the function of the command.
- List of cards on the CLI where you can execute the command.
- Syntax of the command.
- Syntax description that lists all the parameters. Each parameter in the list includes the following:
  - Brief definition.
  - Functional details if applicable.
  - The range of values for the parameter.
  - An applicable default value.




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**Note** For many instances, the default value is not merely a basic starting value but rather the most desirable or commonly used value.

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- “Related Commands” section lists other commands in the typical groups, for example, add, delete, configure, and display, or other commands that can complement the command.
- “Attributes” section lists the following details:
  - The access level contains the privilege level for the user.
  - The state of the card that is required to execute a command. The state can be active, standby, or initialize.
  - The switch logs each instance for a command execution. Typically, the switch logs each configuration change but no display commands.
- “Example” section that illustrates one or more examples of command usage. The text for the Example section describes the intention of the command and can also describe an outcome.