



## SMF Executive Commands

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## aaa

Configures AAA based user management parameters.

---

### Privilege

Security Administrator, Administrator

---

### Command Modes

Exec

---

### Syntax Description

```
aaa { authentication { users list_of_local_users admin change-password
old-password user_password new-password user_password confirm-password
user_password } }
```

#### **users *list\_of\_local\_users***

Specify the user name.

Must be a string.

#### **old-password *user\_password***

Specifies the current password of the user.

Must be a string.

#### **new-password *user\_password***

Specifies a new password of the user.

Must be a string.

#### **confirm-password *user\_password***

Enter the new password once again to change the password.

Must be a string.

---

### Usage Guidelines

Use this command to configure the AAA based user management parameters.

## cd

Configures the change directory command.

---

### Privilege

Security Administrator, Administrator

---

**Command Modes** Exec

---

**Syntax Description** `cd directory.ssh`

**directory**

Specify the directory path.

Must be an alphanumeric string.

---

**Usage Guidelines** Use this command to configure the change directory command.

## cdl clear

Configures the Cisco Common Data Layer (CDL) parameters to delete the database sessions.

---

**Privilege** Security Administrator, Administrator

---

**Command Modes** Exec

---

**Syntax Description** `cdl clear sessions [ db-name db_name | filter { condition { ends-with | match | starts-with } key key_value } | map-id map_id ]`

**db-name db\_name**

Specifies the database name to be queried for deleting the data.

Must be a string of 1 to 16 characters.

**key key\_value**

Specifies the query value.

Must be a string of 0 to 512 characters.

**map-id map\_id**

Specifies the map ID to delete the data for a map.

Must be an integer in the range of 0-1024.

**filter condition { ends-with | match | starts-with }**

Specify the query expression to filter the results of query.

---

**Usage Guidelines** Use this command to delete the CDL database sessions.

## cdl show sessions

Configures the CDL parameters to display the session details.

---

**Privilege** Security Administrator, Administrator

---

**Command Modes** Exec

---

**Syntax Description** `cdl show sessions count { detailed { db-name db_name | filter { condition { ends-with | match | starts-with } | key key_value } | limit limit | map-id map_id } | summary { db-name db_name | filter { condition { ends-with | match | starts-with } | key key_value } | limit limit | map-id map_id }`

**count**

Display the session count information.

**detailed**

Display the session details with data.

**summary**

Display the session details without data.

**db-name *db\_name***

Specifies the database name to be queried for displaying the session details.

Must be a string of 1 to 16 characters.

**key *key\_value***

Specifies the query value.

Must be a string of 0 to 512 characters.

**map-id *map\_id***

Specifies the map ID to display the data for a map.

Must be an integer in the range of 0-1024.

**limit *limit***

Specifies the maximum number of records to display.

Must be an integer in the range of 1 to 500 characters.

**filter condition { ends-with | match | starts-with }**

Specify the query expression to filter the results of query.

---

**Usage Guidelines** Use this command to display the session details.

## cdl show status

Configures the CDL parameters to display the status of the database.

|                           |  |
|---------------------------|--|
| <b>Privilege</b>          | Security Administrator, Administrator  |
| <b>Command Modes</b>      | Exec   |
| <b>Syntax Description</b> | <pre>cdl status db-name db_name</pre> <p><b>db-name</b> <i>db_name</i></p> <p>Specifies the database name for displaying the corresponding status.<br/>Must be a string of 1 to 16 characters.</p> |
| <b>Usage Guidelines</b>   | Use this command to display the status of the queried database.  |

## clear ipam

Clears the IPAM operational data.

|                           |  |
|---------------------------|--|
| <b>Privilege</b>          | Security Administrator, Administrator                |
| <b>Command Modes</b>      | Exec   |
| <b>Syntax Description</b> | <pre>clear ipam</pre>                                |
| <b>Usage Guidelines</b>   | Use this command to clear the IPAM operational data. |

## clear subscriber

Clears the subscriber data.

|                           |  |
|---------------------------|--|
| <b>Privilege</b>          | Security Administrator, Administrator          |
| <b>Command Modes</b>      | Exec   |
| <b>Syntax Description</b> | <pre>clear subscriber</pre>                    |
| <b>Usage Guidelines</b>   | Use this command to clear the subscriber data. |

## commit

Configures the commit parameters.

|                           |   |
|---------------------------|---|
| <b>Privilege</b>          | Security Administrator, Administrator   |
| <b>Command Modes</b>      | Exec  |
| <b>Syntax Description</b> | <pre>commit [ abort { persist-id persist_id }   confirm { persist-id persist_id }   persist-id persist_id ]</pre> |

**abort persist-id *persist\_id***

Specify to abort commit. Specify the persistence ID for the commit operation.

Must be an integer.

**confirm persist-id *persist\_id***

Specify to confirm commit. Specify the persistence ID for the commit operation.

Must be an integer.

**persist-id *persist\_id***

Specify the persistence ID for the commit operation.

Must be an integer.

---

**Usage Guidelines** Use this command to configure the commit parameters.

## compare

Compares the running configuration to another configuration or a file.

---

**Privilege** Security Administrator, Administrator

---

**Command Modes** Exec

---

**Syntax Description** `compare file { filename[.kubernetes | .ssh/] | configuration }`

***filename*[.kubernetes | .ssh/]**

Specify the file name or the directory path of the file to be compared.

Must be a string.

***configuration***

Specify the desired configuration to be compared against.

Must be a string.

---

**Usage Guidelines** Use this command to compare the files.

## config

Manipulates the software configuration information.

---

**Privilege** Security Administrator, Administrator

---

**Command Modes** Exec

---

**Syntax Description**    `config [ exclusive | no-confirm | shared | terminal ]`

**exclusive**

Specify to enter the exclusive configuration mode.

**no-confirm**

Specify to apply the command without asking for confirmation.

**shared**

Specify to enter the shared configuration mode.

**terminal**

Specify to enter the terminal configuration mode.

---

**Usage Guidelines**    Use this command to manipulate the software configuration information.

## describe

Displays the command information.

---

**Privilege**    Security Administrator, Administrator

---

**Command Modes**    Exec

---

**Syntax Description**    `describe command`

***command***

Specify the command name to display detailed information about the command.

The command must be one of the following:

- **aaa**
- **cd**
- **cdl**
- **commit**
- **compare**
- **config**
- **describe**
- **dump**
- **exit**
- **help**

- **history**
- **id**
- **idle-timeout**
- **ignore-leading-space**
- **job**
- **leaf-prompting**
- **license**
- **logout**
- **monitor**
- **no**
- **paginate**
- **quit**
- **rcm**
- **screen-length**
- **screen-width**
- **send**
- **show**
- **show-defaults**
- **smiuser**
- **system**
- **terminal**
- **timestamp**
- **who**

---

**Usage Guidelines** Use this command to display the command specific information.

## dump

Removes the transaction history.

---

**Privilege** Security Administrator, Administrator

---

**Command Modes** Exec

---

**Syntax Description** `dump transactionhistory`



---

**Usage Guidelines** Use this command to remove the transaction history.

## exit

Exits the current configuration mode and returns to the previous configuration mode.

---

**Privilege** Security Administrator, Administrator

---

**Command Modes** Exec

---

**Syntax Description** **exit**

---

**Usage Guidelines** Use this command to exit the current configuration mode and return to the previous configuration mode. When used in the Exec mode, exits the management session.

## help

Displays help information for a specified command.

---

**Privilege** Security Administrator, Administrator

---

**Command Modes** Exec

---

**Syntax Description** **help** *command*

### ***command***

Specify the command name to display the corresponding help information.

The command must be one of the following:

- **aaa**
- **cd**
- **cdl**
- **commit**
- **compare**
- **config**
- **describe**
- **dump**
- **exit**
- **help**
- **history**
- **id**

- **idle-timeout**
- **ignore-leading-space**
- **job**
- **leaf-prompting**
- **license**
- **logout**
- **monitor**
- **no**
- **paginate**
- **quit**
- **rcm**
- **screen-length**
- **screen-width**
- **send**
- **show**
- **show-defaults**
- **smiuser**
- **system**
- **terminal**
- **timestamp**
- **who**

**Usage Guidelines** Use this command to view help information for a specified command.

## history

Configures the command history cache size.

**Privilege** Security Administrator, Administrator

**Command Modes** Exec

**Syntax Description** **history** *history\_size*

***history\_size***

Specify the command history cache size.

Must be an integer in the range of 0-1000.

**Usage Guidelines** Use this command to configure the command history cache size.

## id

Displays user ID information.

**Privilege** Security Administrator, Administrator

**Command Modes** Exec

**Syntax Description** `id`

**Usage Guidelines** Use this command to view the user ID information.

## idle-timeout

Configures the maximum duration a command can remain idle in seconds after which the system automatically terminates the connection.

**Privilege** Security Administrator, Administrator

**Command Modes** Exec

**Syntax Description** `idle-timeout duration`

### *duration*

Specify the idle timeout duration in seconds.

Must be an integer in the range of 1-8192.

**Usage Guidelines** Use this command to configure the maximum duration a command can remain idle.

## ignore-leading-space

Configures whether to ignore or consider the leading whitespace at the beginning of a command.

**Privilege** Security Administrator, Administrator

**Command Modes** Exec

**Syntax Description** `ignore-leading-space { false | true }`

`{ false | true }`

Specify false to ignore the leading whitespace, and true to consider it.

Must be either "false" or "true".

**Usage Guidelines** Use this command to configure whether to ignore or consider leading whitespace at the beginning of a command.

## job

Suspends the jobs that are running in the background.

**Privilege** Security Administrator, Administrator

**Command Modes** Exec

**Syntax Description** `job stop job_id`

***job\_id***

Specify the job ID for suspending the corresponding job.

Must be an integer.

**Usage Guidelines** Use this command to suspend the jobs that are running in the background.

## leaf-prompting

Enables or disables automatic querying for leaf values.

**Privilege** Security Administrator, Administrator

**Command Modes** Exec

**Syntax Description** `leaf-prompting { false | true }`

**{ false | true }**

Specify false to disable leaf prompting, and true to enable.

Must be either "false" or "true".

**Usage Guidelines** Use this command to automatically query for leaf values.

## license smart deregister

Configures the license parameters for the VNF deregistration.

**Privilege** Security Administrator, Administrator

**Command Modes** Exec

---

**Syntax Description**    `license smart deregister`

**deregister**

Specify to deregister the VNF for smart licensing.

---

**Usage Guidelines**    Use this command to configure the license parameters for the VNF deregistration.

## license smart register

Configures the license parameters for the VNF registration.

---

**Privilege**    Security Administrator, Administrator

---

**Command Modes**    Exec

---

**Syntax Description**    `license smart register force idtoken token_id`

**register**

Specify to register the VNF for Smart Licensing.

**force**

Specify to enable the force registration of the agent.

**idtoken *token\_id***

Specify the ID token to register the agent with.

Must be an integer.

---

**Usage Guidelines**    Use this command to configure the license parameters for the VNF registration.

## license smart renew

Configures the license parameters for the VNF renewal.

---

**Privilege**    Security Administrator, Administrator

---

**Command Modes**    Exec

---

**Syntax Description**    `license smart renew { ID | auth }`

**renew**

Renew the smart agent IDs and authentication.

**ID**

Specify to renew the smart agent license registration information.

**auth**

Initiate the manual update of the license usage information with Cisco.

---

**Usage Guidelines** Use this command to configure the license parameters for the VNF renewal.

## logout

Logout a specific session or a specific user from all sessions.

---

**Privilege** Security Administrator, Administrator

---

**Command Modes** Exec

---

**Syntax Description** `logout [ session session_id | user user_name ]`

**session *session\_id***

Specify the session ID from the possible completion options.

Must be a string.

**user *user\_name***

Specify the user name or the user process from the possible completion options.

Must be a string.

---

**Usage Guidelines** Use this command to log out a specific session or a specific user from all sessions.

## monitor protocol

Configures the SMF to monitor the protocol.

---

**Privilege** Security Administrator, Administrator

---

**Command Modes** Exec

---

**Syntax Description** `monitor protocol interface interface_name [ capture-duration duration ]`

**interface *interface\_name***

Specify the name of interface on which PCAP is captured.

Must be a string.

**capture-duration *duration***

Specify the duration, in seconds, during which PCAP is captured. The default value is 300 seconds.

Must be an integer.

**Usage Guidelines** Use this command to monitor the protocol.

## monitor subscriber

Configures the SMF to monitor the subscribers.

**Privilege** Security Administrator, Administrator

**Command Modes** Exec

**Syntax Description** `monitor subscriber supi supi [ capture-duration duration ] | subscriber-dump filename file_name | subscriber-list`

**supi *supi***

Specify the subscriber identifier.

Must be a string.

**capture-duration *duration***

Specify the duration, in seconds, during which PCAP is captured. The default value is 300 seconds.

Must be an integer.

**filename *file\_name***

Specify the path of the file name to be dumped.

Must be a string.

**Usage Guidelines** Use this command to monitor the subscribers.

## no

Restores the command history cache size to its default setting. See the [history](#) command.

**Privilege** Security Administrator, Administrator

**Command Modes** Exec

**Syntax Description** `no history`

**Usage Guidelines** Use this command to configure the command history cache size to its default setting. For more details, see the [history](#) command.

## paginate

Configures whether or not to paginate CLI command output.

---

**Privilege** Security Administrator, Administrator

---

**Command Modes** Exec

---

**Syntax Description** `paginate { false | true }`

`{ false | true }`

Specify false to disable paginating CLI command output, and true to enable.

Must be either "false" or "true".

---

**Usage Guidelines** Use this command to paginate the command output.

## quit

Exits the management session.

---

**Privilege** Security Administrator, Administrator

---

**Command Modes** Exec

---

**Syntax Description** `quit`

---

**Usage Guidelines** Use this command to exit the management session.

## rcm switchover

Configures Redundancy and Configuration Manager (RCM) switchover operation.

---

**Privilege** Security Administrator, Administrator

---

**Command Modes** Exec

---

**Syntax Description** `rcm switchover source ip_address destination ip_address`

`source ip_address`

Specify the source IP address.

Must be an IP address.



**destination *ip\_address***

Specify the destination IP address.

Must be an IP address.

---

**Usage Guidelines** Use this command to configure RCM switchover operation.

## screen-length

Configures the number of rows of text that the terminal screen displays.

---

**Privilege** Security Administrator, Administrator

---

**Command Modes** Exec

---

**Syntax Description** **screen-length** *number\_of\_rows*

***number\_of\_rows***

Specify the number of rows that the terminal screen displays.

Must be an integer.

---

**Usage Guidelines** Use this command to set the number of rows that the terminal screen displays.

## screen-width

Configures the number of columns that the terminal screen displays.

---

**Privilege** Security Administrator, Administrator

---

**Command Modes** Exec

---

**Syntax Description** **screen-width** *number\_of\_columns*

***number\_of\_columns***

Specify the number of columns that the terminal screen displays.

Must be an integer.

---

**Usage Guidelines** Use this command to set the number of columns that the terminal screen displays.

## send

Sends messages to the terminal of a specific user or all users.

---

**Privilege** Security Administrator, Administrator

---

**Command Modes** Exec

---

**Syntax Description** **send** *user message*

***user***

Specify the user to whom the message must be sent.

Must be a string. Select from the possible completion options.

***message***

Specify the message that must be sent.

Must be a string.

---

**Usage Guidelines** Use this command to send messages to the terminal of a specific user or to all users.

## show

Displays the system information.

---

**Privilege** Security Administrator, Administrator

---

**Command Modes** Exec

---

**Syntax Description** **show** *system\_component*

***system\_component***

Specify the component to view the information.

Must be a string. Select from the possible completion options.

---

**Usage Guidelines** Use this command to view the system information.

## show-defaults

Displays the default configuration.

---

**Privilege** Security Administrator, Administrator

---

**Command Modes** Exec

---

**Syntax Description** **show-defaults** { **false** | **true** }

**{ false | true }**

Specify whether to display or hide the default values. To display, select true. Otherwise, select false.

Must be either "false" or "true".

**Usage Guidelines** Use this command to view the default configuration.

## smiuser

Configures the Subscriber Microservices Infrastructure (SMI) user account parameters.

**Privilege** Security Administrator, Administrator

**Command Modes** Exec

**Syntax Description** `smiuser { add-group groupname group_name | add-user { username username | password password } | change-password { username username | current_password current_password | new_password new_password | confirm_password new_password | password_expire_days expire_days } | change-self-password { current_password current_password | new_password new_password | confirm_password new_password | password_expire_days expire_days } | delete-group groupname group_name | delete-user username username | unassign-user-group { groupname groupname_pam | username username_pam } | update-password-length length password_length }`

**username *username***

Specify the username.

Must be a string.

**password *password***

Specify the user password.

Must be a string.

**confirm\_password *new\_password***

Confirm the new password.

Must be a string.

**current\_password *current\_password***

Specify the current password.

Must be a string.

**new\_password *new\_password***

Specify the new password.

Must be a string.

**password\_expire\_days *expire\_days***

Specify the number of days before the password expires.

Must be an integer.

**groupname *group\_name***

Specify the group name.

Must be a string.

**groupname *groupname\_pam***

Specify the group name in PAM.

Must be a string.

**username *username\_pam***

Specify the user name in PAM.

Must be a string.

**length *password\_length***

Specify the minimum password length.

Must be an integer.

**Usage Guidelines**

Use this command to configure the smiuser parameters.

## system

Configures the NF's system operations.

**Privilege**

Security Administrator, Administrator

**Command Modes**

Exec

**Syntax Description**

```
system { ops-center stop | synch { start | stop } | upgrade | uuid-override
new-uuid uuid_value }
```

**ops-center stop**

Stop the syncing of configuration.

**synch { start | stop }**

Starts or stops the syncing of configuration,

**upgrade**

Initiates the upgrade of a product.

**uuid-override new-uuid *uuid\_value***

Change the Universally Unique Identifier (UUID) to a new value.

Must be a string.

**Usage Guidelines** Use this command to display the NF's system operations.

## terminal

Configures the type of terminal.

**Privilege** Security Administrator, Administrator

**Command Modes** Exec

**Syntax Description** `terminal terminal_type`

### *terminal\_type*

Specify the terminal type.

Must be one of the following:

- ansi
- generic
- linux
- vt100
- xterm

**Usage Guidelines** Use this command to configure the terminal type.

## timestamp

Configures the timestamp parameters.

**Privilege** Security Administrator, Administrator

**Command Modes** Exec

**Syntax Description** `timestamp { disable | enable }`

### `{ disable | enable }`

Enable or disable the timestamp display.

**Usage Guidelines** Use this command to configure the timestamp.

## who

Displays information on currently logged on users.

---

**Privilege** Security Administrator, Administrator

---

**Command Modes** Exec

---

**Syntax Description** `who`

---

**Usage Guidelines** Use this command to view information on currently logged on users. The command output displays the Session, User, Context, From (IP address), Protocol, Date, and Mode information.