

7750 SERVICE ROUTER 7950 EXTENSIBLE ROUTING SYSTEM

MD-CLI QUICK REFERENCE GUIDE

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1 MD-CLI Overview

This guide provides a comparison of the Nokia SR OS Model-Driven Command Line Interface (MD-CLI) to those used by Junos OS and IOS XR.

For more information about the MD-CLI, see the following resources:

- SR OS Release Notes for your current release
- MD-CLI User Guide
- MD-CLI Command Reference Guide
- MD-CLI introductory videos: https://www.youtube.com/
 playlist?list=PLgKNvl454BxcgfUQGMAEGE4viV8c-ZDLu

Table 1 describes command syntax symbols used in this guide.

Table 1 Command Syntax Symbols

Symbol	Description
1	A vertical bar represents an OR, indicating that only one of the parameters in the brackets or parentheses can be selected.
()	Parentheses indicate that one of the parameters must be selected.
[]	Brackets indicate optional parameters.
Bold	Commands in bold indicate commands and keywords.
Italic	Commands in <i>italics</i> indicate that you must enter text based on the parameter.

In the following examples, **location** and **graceful-shutdown** are command names. For the **location** command, *keyword* must be one of the keywords **cf1**, **cf2**, or **cf3**. For the **graceful-shutdown** command, *boolean* must be one of the keywords **true** or **false**, although explicitly using the keyword **true** is optional.

```
location keyword
keyword - (cf1 | cf2 | cf3)
graceful-shutdown boolean
boolean - ([true] | false)
```

1.1 Enabling the SR OS MD-CLI

Perform the following procedure to enable the MD-CLI from the classic CLI.

- 1. Back up your configuration. Any existing configuration will be converted to the MD-CLI format.
- 2. Enable the MD-CLI and model-driven mode, using these commands in this order.

```
configure system management-interface cli md-cli auto-
  config-save
configure system management-interface configuration-mode
  model-driven
```

- 3. Log out of the CLI.
- 4. Log back in to the CLI. The MD-CLI engine is now active.

1.2 Disabling the SR OS MD-CLI

Perform the following procedure to return to classic CLI mode while preserving the current router configuration.

1. Disable the MD-CLI and model-driven mode in the MD-CLI, using these commands in this order:

```
configure exclusive
system management-interface configuration-mode classic
commit
```

- 2. Log out of the CLI.
- 3. Log back in to the CLI. The classic CLI engine is now active.

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2 Navigational and Operational Commands

Table 2 compares the basic navigational and operational commands of the Nokia SR OS MD-CLI to those used by Junos OS and IOS XR.

The // command can be used to switch CLI engines to access classic CLI commands that are not yet available in the MD-CLI. Enter //command to run a single command in the other CLI engine. Command completion and ? help are not available when using //command.

Switching CLI engines is described in the MD-CLI User Guide.

Table 2 Navigational and Operational Commands

	SR OS MD-CLI	Junos OS	IOS XR
Move back one or more levels	back [number]	up [number]	N/A
Return to the previous working context or to the operational root	exit [all]	exit quit	end exit
Move to the top level of the context	top	top	root
Access the per-session environment	environment	set cli	terminal
Switch CLI engines	//	N/A	N/A
Run a command in the other CLI engine	//command	N/A	N/A
Show the command tree under the present working context	tree [flat] [detail]	N/A	N/A
Exit the CLI session	logout	exit quit	exit quit

3 Entering and Leaving the Configuration Workflow

Table 3 compares the commands for entering and leaving the configuration workflow of the Nokia SR OS MD-CLI to those used by Junos OS and IOS XR.

For more information about the implicit and explicit configuration workflows and the candidate configuration mode, see the *MD-CLI User Guide*.

Table 3 Entering and Leaving the Configuration Workflow

	SR OS MD-CLI	Junos OS	IOS XR
Candidate configuration modes	global exclusive private read-only	global (not a keyword) exclusive private	private (not a keyword) exclusive
Enter the implicit configuration workflow	configure mode	configure [mode] Default: global	configure [mode] Default: private
Leave the implicit configuration workflow	^Z exit [all]	exit quit	^C ^Z exit
Enter the explicit configuration workflow	edit-config mode	N/A	N/A
Leave the explicit configuration workflow	quit-config (at operational root)	N/A	N/A

4 Configuration Workflow Commands

Table 4 compares the configuration workflow commands of the Nokia SR OS MD-CLI to those used by Junos OS and IOS XR.

Table 4 Configuration Workflow Commands

	SR OS MD-CLI	Junos OS	IOS XR
Navigate into a context	Enter the context by typing context For example: router bgp	edit context For example: edit protocols bgp	Enter the context by typing context For example: router bgp 65551
Set an element in the candidate datastore	Enter the context with a value by typing context value	set context value	Enter the context with a value by typing context value
Delete an element from the candidate datastore	delete context	delete context	no context
Show the candidate configuration from the present working context	info	show	show configuration merge
Show the candidate configuration with default and unconfigured values	info detail	show display detail	N/A
Show the candidate configuration with inherited values from configuration groups	info inheritance	show display inheritance	show configuration running inheritance
Show the candidate configuration in a flat format	info flat info full-context	show display set	show configuration merge formal
Show changes between datastores	compare	show compare	show commit changes diff
Discard changes in the candidate datastore	discard	rollback rollback 0	abort
Update the candidate baseline	update	update	N/A
Validate changes in the candidate datastore	validate	commit check	N/A

Table 4 Configuration Workflow Commands (Continued)

	SR OS MD-CLI	Junos OS	IOS XR
Commit changes to the running datastore	commit (also runs validate)	commit (also runs check)	commit
Roll back to a previous configuration	rollback checkpoint startup	rollback checkpoint	rollback configuration to checkpoint
Run an operational command	/command	run command	do command

4.1 Commit Confirmed Commands

Table 5 compares the commit commands of the Nokia SR OS MD-CLI to those used by Junos OS and IOS XR.

Table 5 Commit Confirmed Commands

	SR OS MD-CLI	Junos OS	IOS XR
Start the commit confirmed	commit confirmed [number] Default timeout: 10 minutes	commit confirmed [number] Default timeout: 10 minutes	commit confirmed [number] [minutes number] Note: timeout is in seconds unless specified with minutes parameter
Accept a commit confirmed	commit confirmed accept	commit	commit
Cancel a commit confirmed	commit confirmed cancel	rollback 1 and commit	Exit configuration mode or clear the CLI session

4.2 Configuration Management Commands

Table 6 compares the configuration management commands of the Nokia SR OS MD-CLI to those used by Junos OS and IOS XR.

 Table 6
 Configuration Management Commands

	SR OS MD-CLI	Junos OS	IOS XR
Paste configuration	Input is accepted in hierarchical, flat, full-context or compare format, opening ({) and closing (}) braces navigate	Input is accepted in display set format or using load merge terminal relative for hierarchical configuration	Input is accepted in formal format for hierarchical configuration
Load and merge a configuration file	load merge url	load merge url	load url
Load and replace a configuration file	load full-replace url commit	load override url	load url commit replace
Save configuration to a file	info > url	save url	copy running-config url
Show the startup configuration	admin show configuration	show configuration	show configuration persistent

5 Output Modifiers

Table 7 compares the output modifiers of the Nokia SR OS MD-CLI to those used by Junos OS and IOS XR.

Table 7 Output Modifiers

	SR OS MD-CLI	Junos OS	IOS XR
Count occurrences	count	count	show utility wc
Match a pattern	match string Note: enclose the pattern in apostrophes for regular expression matches	match regexp	include regexp
Disable output pagination	no-more	no-more	N/A
Redirect output to a file	>	save	file

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