



## About this Guide

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**Note** Control and User Plane Separation (CUPS) represents a significant architectural change in the way StarOS-based products are deployed in the 3G, 4G, and 5G networks. Unless otherwise specified, it should not be assumed that any constructs (including, but not limited to, commands, statistics, attributes, MIB objects, alarms, logs, services) referenced in this document imply functional parity between legacy/non-CUPS and CUPS products. Please contact your Cisco Account or Support representative for any questions about parity between these products.

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**Note** The documentation set for this product strives to use bias-free language. For purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on RFP documentation, or language that is used by a referenced third-party product.

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**Note** The ASR 5000 hardware platform has reached end of life and is not supported in this release. Any references to the ASR 5000 (specific or implied) or its components in this document are coincidental. Full details on the ASR 5000 hardware platform end of life are available at:  
<https://www.cisco.com/c/en/us/products/collateral/wireless/asr-5000-series/eos-eol-notice-c51-735573.html>.

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**Note** The HA, HSGW, PDSN, and SecGW products have reached end of life and are not supported in this release. Any references to these products (specific or implied) their components or functions including CLI commands and parameters in this document are coincidental and are not supported. Full details on the end of life for these products are available at:  
<https://www.cisco.com/c/en/us/products/collateral/wireless/asr-5000-series/eos-eol-notice-c51-740422.html>.

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This preface describes the *Command Line Interface Reference* and its document conventions.

This reference describes how to use the command line interface (CLI) to interact with the products supported by the StarOS™. The CLI commands are organized by command modes in the code and in this reference. The

command modes are presented alphabetically. The description of each command states the command's function, describes its syntax, presents limitations when applicable, and offers an example of its usage.

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## CLI Command Sections

The following table describes the individual sections in the command descriptions presented in this reference.

| Section   | Description  |
|-----------|--|
| Product   | The product(s) supporting the CLI command.   |
| Privilege | The user privilege levels having access to the CLI command.<br><br>For more information on user types and user privileges, refer to the <i>CLI Administrative Users</i> section in the <i>Command Line Interface Overview</i> chapter.             |
| Mode      | The command and configuration mode sequences to the CLI configuration mode for the CLI command.<br><br>For more information on command modes, refer to the <i>CLI Command Modes</i> section in the <i>Command Line Interface Overview</i> chapter. |
| Syntax    | The command's syntax.<br><br>For more information on CLI command syntax, refer to the <i>CLI Command Syntax</i> section in the <i>Command Line Interface Overview</i> chapter.   |
|           | Description of the keyword(s) and variable(s) in the command.  |
| Usage     | Information about the command's usage including dependencies and limitations, if any.  |
| Example   | Example(s) of the command.   |

## Conventions Used

The following tables describe the conventions used throughout this documentation.

| Notice Type      | Description  |
|------------------|--|
| Information Note | Provides information about important features or instructions.   |
| Caution          | Alerts you of potential damage to a program, device, or system.  |
| Warning          | Alerts you of potential personal injury or fatality. May also alert you of potential electrical hazards. |

| Typeface Conventions                                 | Description  |
|--|--|
| Text represented as a screen display                 | This typeface represents displays that appear on your terminal screen, for example:<br><br>Login:  |
| Text represented as <b>commands</b>                  | This typeface represents commands that you enter, for example:<br><br><b>show ip access-list</b><br><br>This document always gives the full form of a command in lowercase letters. Commands are not case sensitive. |
| Text represented as a <b>command</b> <i>variable</i> | This typeface represents a variable that is part of a command, for example:<br><br><b>show card slot_number</b><br><br><i>slot_number</i> is a variable representing the desired chassis slot number.                |
| Text represented as menu or sub-menu names           | This typeface represents menus and sub-menus that you access within a software application, for example:<br><br>Click the <b>File</b> menu, then click <b>New</b>  |

| Command Syntax Conventions            | Description   |
|---------------------------------------|---|
| { <b>keyword</b> or <i>variable</i> } | Required keyword options and variables are those components that are required to be entered as part of the command syntax.<br><br>Required keyword options and variables are surrounded by grouped braces { }. For example:<br><br><b>sctp-max-data-chunks { limit <i>max_chunks</i>   mtu-limit }</b><br><br>If a keyword or variable is not enclosed in braces or brackets, it is mandatory. For example:<br><br><b>snmp trap link-status</b> |

| Command Syntax Conventions            | Description   |
|---------------------------------------|---|
| [ <b>keyword</b> or <i>variable</i> ] | Optional keywords or variables, or those that a user may or may not choose to use, are surrounded by brackets.  |
|                                       | <p>Some commands support multiple options. These are documented within braces or brackets by separating each option with a vertical bar.</p> <p>These options can be used in conjunction with required or optional keywords or variables. For example:</p> <pre>action activate-flow-detection {   intitiation   termination }</pre> <p>or</p> <pre>ip address [ count <i>number_of_packets</i>     size <i>number_of_bytes</i> ]</pre> |

## Supported Documents and Resources

### Related Documentation

The most up-to-date information for this product is available in the product *Release Notes* provided with each software release.

The following related product documents are also available:

- *AAA Interface Administration and Reference*
- *GTPP Interface Administration and Reference*
- *IPSec Reference*
- Platform-specific System Administration Guides
- Product-specific Administration Guides
- *Release Change Reference*
- *SNMP MIB Reference*
- *Statistics and Counters Reference*
- *Statistics and Counters Reference - Bulk Statistics Descriptions*
- *Thresholding Configuration Guide*

# Contacting Customer Support

Use the information in this section to contact customer support.

Refer to the support area of <http://www.cisco.com> for up-to-date product documentation or to submit a service request. A valid username and password are required to access this site. Please contact your Cisco sales or service representative for additional information.

