TippingPoint™
Threat Protection System (TPS)
Command Line Interface Reference
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Command Line Interface

In addition to the Local System Manager (LSM) and the centralized management capability of the Security Management System (SMS), you can use the Command-line Interface (CLI) to configure and manage your device.

When you initially install the device and run the Setup Wizard, you create a superuser account that you will use to access the device through the LSM or the CLI. By default, SSH and HTTPS are enabled on the device for the management port IP address. You can access the CLI directly through the system console or remotely through SSH. Non-secure connections, such as Telnet, are not permitted.

**Note**
When there has been no CLI activity for 15 minutes, connection to the device times out.

Your access to the CLI is determined by your group membership and roles and capabilities. To configure granular levels of access, you can use the `aaa` (Authentication and Authorization and Auditing) context to modify users, groups, roles, and their capabilities.

### SSH configuration

To configure cryptographic parameters for an SSH remote syslog server or client that is not a TippingPoint device, such as a Linux server, refer to the applicable online documentation.

For TippingPoint devices, you can enable and disable ciphers using a `debug` command in conjunction with TippingPoint support. Contact support for information on whether other cryptographic parameters are configurable.

To configure the "Remote System Log" contact to use SSH, use the following command:

```plaintext
ips()edit
ips(running)notifycontacts
ips(running-notifycontacts)contact "Remote System Log"
```

To identify which syslog server to send the logs to, use the following command:

```plaintext
ips(running-notifycontacts-Remote System Log)server SERVER PORT
```

To identify the user of the remote syslog server, use the following command:

```plaintext
ips(running-notifycontacts-Remote System Log)ssh-user-name SERVER PORT USER
```

Consult the applicable online documentation for information on generating a key pair. To import the public key for the remote syslog server, use the following command:

```plaintext
ips()edit
ips(running)notifycontacts
ips(running-notifycontacts)contact "Remote System Log"
ips(running-notifycontacts-Remote System Log)ssh-host-key SERVER PORT PUBLICKEY
```

To import the private key for the remote syslog server, use the following command:

```plaintext
ips(running-notifycontacts-Remote System Log)ssh-user-key SERVER PORT
Please enter the user private key (including BEGIN PRIVATE KEY and END PRIVATE KEY lines):
```

Administrators cannot specify whether users must use either password or key-based authentication. However, key-based authorization is prioritized over password authentication (on a per-user basis) for users that have the SSH public key set.
After the maximum number of authentication attempts you have configured (the range is 1–10) is reached, a lockout condition results.

To upload a user public key:

```
ips{}edit
ips{running}aaa
ips{running-aaa}user USER
ips{running-aaa-user-USER}ssh-public-key SSH_PUBLIC_KEY
ips{running-aaa-user-USER}commit
```

To delete a user public key:

```
ips{}edit
ips{running}aaa
ips{running-aaa}user USER
ips{running-aaa-user-USER}delete ssh-public-key
ips{running-aaa-user-USER}commit
```

To enable SSH for remote syslog, use the following command:

```
ips{running-notifycontacts-Remote System Log}use-ssh SERVER PORT enable
```

To enable the device to send logs to the remote syslog server, use the following commands:

```
ips{running-log} log system "Remote System Log" notice
ips{running-log} log audit "Remote System Log" ALL
```

Learn more about enabling SSH.

**CLI syntax**

The CLI uses the following syntax:

<table>
<thead>
<tr>
<th>Syntax Convention</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPPERCASE</td>
<td>Uppercase represents a user-supplied value.</td>
</tr>
<tr>
<td>(x)</td>
<td>Parentheses indicate a required argument.</td>
</tr>
<tr>
<td>[x]</td>
<td>Brackets indicate an optional argument.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>required and optional arguments.</td>
</tr>
</tbody>
</table>

**Examples**

The question mark displays help information:

```
ips{}traceroute ?
```

In the example below, required arguments for the `traceroute` command must either use an IP address or the hostname. An optional argument can be “from” a source IP address:

```
ips{}traceroute 198.162.0.1 from 198.162.0.2
```
Shortcut navigation keys

The CLI has the ability to store typed commands in a circular memory. Typed commands can be recalled with the UP and DOWN arrow keys.

You can use the TAB key to complete partial commands. If the partial command is ambiguous, pressing the TAB key twice gives a list of possible commands.

<table>
<thead>
<tr>
<th>Shortcut</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTER</td>
<td>Runs the command.</td>
</tr>
<tr>
<td>TAB</td>
<td>Completes a partial command.</td>
</tr>
<tr>
<td>?</td>
<td>Question mark at the root prompt or after a command (separated by space) lists the next valid sub-commands or command arguments. Question mark can also be used after sub-commands for more information. A question mark immediately following a character(s) (no space) will list commands beginning with those characters.</td>
</tr>
<tr>
<td>!</td>
<td>Exclamation mark before a command allows you to execute the command from any feature context or sub-level. Example: <code>ips{running-gen}!ping 203.0.113.0</code></td>
</tr>
<tr>
<td>UP ARROW</td>
<td>Shows the previous command.</td>
</tr>
<tr>
<td>DOWN ARROW</td>
<td>Shows the next command.</td>
</tr>
<tr>
<td>Ctrl + P</td>
<td>Shows the previous command.</td>
</tr>
<tr>
<td>Ctrl + N</td>
<td>Shows the next command.</td>
</tr>
<tr>
<td>Ctrl + L</td>
<td>Clears the screen, does not clear history.</td>
</tr>
<tr>
<td>Ctrl + A</td>
<td>Returns to the start of the command you are typing.</td>
</tr>
<tr>
<td>Ctrl + E</td>
<td>Goes to the end of the command you are typing.</td>
</tr>
<tr>
<td>Ctrl + U</td>
<td>Cuts the whole line to a special clipboard.</td>
</tr>
<tr>
<td>Ctrl + K</td>
<td>Cuts everything after the cursor to a special clipboard.</td>
</tr>
<tr>
<td>Ctrl + Y</td>
<td>Pastes from the special clipboard used by Ctrl + U and Ctrl + K.</td>
</tr>
</tbody>
</table>

Hierarchical context

Prompts are displayed based in a hierarchical context. The following table shows the root, edit, and log configuration modes.

<table>
<thead>
<tr>
<th>Prompt</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ips{}</td>
<td>Displays the top-level root mode. This context is displayed when you first log in to the CLI.</td>
</tr>
<tr>
<td>ips{}edit</td>
<td>Enters the edit configuration mode.</td>
</tr>
<tr>
<td>ips{running}</td>
<td>Displays the configuration mode by changing the prompt to running. This indicates you will be making changes to the running configuration.</td>
</tr>
<tr>
<td>ips{running}display</td>
<td>Views the current configuration and any changes.</td>
</tr>
<tr>
<td>ips{running}commit</td>
<td>Commits changes to the running configuration.</td>
</tr>
<tr>
<td>ips{}log-configure</td>
<td>Enters the log-configure context to access the log configuration mode.</td>
</tr>
</tbody>
</table>
### Prompt and Description

<table>
<thead>
<tr>
<th>Prompt</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ips{log-configure}</td>
<td>Displays the log configuration mode.</td>
</tr>
<tr>
<td>ips{log-configure}help</td>
<td>Displays list of valid commands and syntax usage.</td>
</tr>
<tr>
<td>ips{running}exit</td>
<td>Leaves the current configuration mode.</td>
</tr>
<tr>
<td>ips{running}!</td>
<td>Leaves the configuration mode from any context and returns to the top-level root mode.</td>
</tr>
</tbody>
</table>

### Help

The `help` command provides a list of commands within the current context and the command line usage. You can run issue the `help` command with or without an argument.

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>help or ?</td>
<td>Displays a list of all commands. (The question mark at any context level generates a list of available commands within the context, along with a brief description).</td>
</tr>
<tr>
<td>help commandname</td>
<td>Displays syntax for a command.</td>
</tr>
<tr>
<td>commandname?</td>
<td>Displays the options for a command. For example, ping ?.</td>
</tr>
<tr>
<td>string?</td>
<td>Shows the commands or keywords that match the string. For example, s?.</td>
</tr>
</tbody>
</table>

### Command modes

The TPS uses a hierarchical menu structure. Within this structure, commands are grouped by functional area within one of three command modes:

<table>
<thead>
<tr>
<th>Command Mode</th>
<th>Description/Example</th>
</tr>
</thead>
</table>
| Root                    | When you first log in to the device, you enter the top of the hierarchy, the root mode.  
|                         | `ips{}`                                                                          |
| Edit                    | Enters the edit mode.                                                            |
|                         | `ips{running}`                                                                  |
| Log Configuration       | Enters the log configuration mode.                                               |
|                         | `ips{log-configure}`                                                           |

A `context` is an environment in which you can configure a set of parameters for a feature or named object. A context can be the name of an instance of an object set by the administrator, or can be the feature itself. The current context is indicated in the command prompt, as shown in the examples above.

Your user role determines whether you have access to all contexts or only specific contexts. Authorization is controlled by granting users access through the authentication context (`aaa`).

The `help` and `display` commands are useful in becoming familiar with the context options. The question mark (`?`) lists the next valid entry and help for this entry.

If the device is managed by SMS, you will have read-only access to the system resources. To determine if an SMS controls the device, or to change the control, see the `sms` command.
Root command mode

When you initially enter your device, either through the console or SSH, you enter at the root command mode. The system displays the `ips{}` prompt as a default. The commands available at this level manage and monitor system operations for the various subsystems.

From the root command mode you can access the configuration mode and the available operational commands that apply to the unit as a whole.

To view the commands available at the root level, type:

`ips{}`help

To change the default `ips {}` command prompt, use the `host name` command in the `interface mgmt` context of the edit mode. For example:

```
ips{}edit
ips{running}interface mgmt
ips{running-mgmt}help host
```

This displays valid entries for configuring management port host settings.

To display valid entries for the `host` command, type:

`ips{running-mgmt}host ?`

To change the host name, type:

`ips{running-mgmt}host name <yourhostname>`

For a list of root commands and their usage see Root commands.

Edit configuration mode

The configuration mode enables administrators with the appropriate credentials to write configuration changes to the active (running) configuration. To edit the device configuration, you must either be associated with the Superuser role or the Administrator role.

This mode has different context levels that provide access to a specific set of configuration commands. As you move through the context menus the command prompt displays the current context. Remember that you can issue the `help` command to display available commands for that context or type `display` to view the current configuration for that context.

Enter and exit the edit mode

To enter the edit configuration mode, use the `edit` command.

```
ips{}edit
ips{running}
```

The CLI prompt indicates that you are in the edit mode and you can then make configuration changes. Configuration options, and sub contexts are available for use until you exit this mode.

To exit the current context, use the `exit` command.

```
ips{running}exit
```

To exit the edit configuration mode from the top-level `ips{running}` prompt, use the `exit` command.

```
ips{running}exit
```

To exit the edit configuration mode from any context, use the `!` command.
ips{running}!

When you exit the edit configuration mode, the following warning is displayed: “WARNING: Modifications will be lost. Are you sure to exit (y/n)? [n]”

y discards any uncommitted changes you made to the configuration file. n keeps you in the edit configuration mode.

**View and commit configuration changes**

The `display` command is a helpful utility to view the current running configuration and to review your configuration changes before you save them.

`ips{running} display`

You must use the `commit` command to save your changes to the running configuration.

**Container and object statements**

The command hierarchy has two types of statements. The container statement, which contain objects, and the object statement, which are actual commands with options.

For example:

- Container statement in edit mode:

  `ips{running} log`

  `ips{running-log}?` (The question mark will list all the available entries.)

- Object statement:

  `ips{running}`

  `application-visibility enable|disable` (Help will display the command options.)

**Edit mode workflow**

A brief overview of what you can do within the edit configuration mode:

- Issue a command that configures a setting in the candidate configuration setting. The candidate configuration allows you to make configuration changes without causing changes to the active configuration until you can review your changes and issue the `commit` command.

- Enter into a container context to access additional configuration settings.

- Run the `display` command to see your candidate configuration settings for that particular context. Any modifications you made will also be visible.

- Run the `commit` command to save any changes from your candidate configuration to the running configuration.

- Run the `exit` command to leave the current context. If you are in the top-level root `ips{}` context, this command leaves the configuration mode.

- Run the `!` command to leave the configuration mode from the current context.

**Configuration file versions**

When troubleshooting or needing to rollback a configuration, the current configuration setup can be viewed. Reviewing network configuration files should be a necessary step to becoming knowledgeable about your current system setup. When the device is initially configured, make sure the settings are saved to the persistent configuration with the `ips{save-config` command. It is also advisable to create a snapshot using the following command:
ips{}snapshot create orig_conf

Snapshots capture the configuration of a device, which can then be delivered to technical support for troubleshooting. Users can also use snapshots to save and re-apply configurations. Snapshots include the currently installed OS version, and cannot be restored on a device that is not running the same version of the OS. If a snapshot restore needs to be completed, use the following command:

ips{}snapshot restore orig_conf

A warning message is displayed, followed by an automatic reboot when snapshot restore is completed.

The CLI uses the deferred-commit model. In this capacity, the architecture maintains a set of configuration files to ensure that a working configuration is persistently maintained. This configuration set includes the following configuration files.

- **Running configuration** — This version is currently executing on the system. Any changes that administrators make from the edit mode (except for IPS features, action sets, application groups, and notification contacts) will take effect once they have been committed, by issuing the commit command. If changes are not committed, all modifications are discarded on exit from the running context. If multiple administrators are on the system, the version that was last committed is used as the current running configuration and is visible to other administrators, once they have exited the edit mode. A warning prompt is displayed if the committed changes would overwrite configuration that was made by another administrator since the configuration was edited.

- **Saved (persistent) configuration** — This is the running configuration that was last committed prior to executing the save-config command. The device copies the saved configuration to the start configuration when the system reboots.

- **Start configuration** — This is a backup copy of the configuration file saved at the time of system startup, and is loaded at the next system bootup. The rollback-config command can be used to rollback to a persistent and running configuration that was the last known good configuration.

**Note**
Future versions of the product will support multiple named saved configuration sets.

**Utilities**

The display and show commands are helpful for troubleshooting and monitoring the operational status of the system. Command line usage can be found in Root commands.

**Display**

Enter display to see your candidate configuration settings for a context. Any modifications you make can be viewed using the display command. The output of the display command depends on where the command is executed. If executed at the configuration level, it displays the entire configuration of the unit. Executing the display command with a configuration name parameter, or from within a context displays the contents of that particular configuration.

**Show**

The show command is most efficient in providing critical information, such as traffic usage, router platform type, operating system revision, amount of memory, and the number of interfaces. The show command can also be used to evaluate logging, troubleshooting, tracking resources, sessions, and security settings. To view all the available show utilities, enter the help show command at the root command level. All the available commands along with the correct command line usage are displayed.
Global commands

Global commands can be used in any context.

cls

Clears the terminal screen.

commit

Commits your pending configuration changes to the Running configuration.

When you commit configuration changes, or when changes are committed automatically, the changes are committed to the Running configuration, and the changes are visible to all users. However, when the device reboots, the Running configuration is reset to the Startup configuration. Uncommitted changes and committed changes in the Running configuration are lost.

Tip

To copy the Running configuration to the Startup configuration without exiting the configuration mode, prepend the `save-config` command with an exclamation mark (!), for example `!save-config`. This command does not commit any pending changes to the Running configuration.

Syntax

```
commit
```

To commit your pending changes to the Running configuration, and then copy the Running configuration to the Startup configuration, enter the following commands:

```
ips{running}commit
ips{running}!save-config
```

Related commands

<table>
<thead>
<tr>
<th>COMMAND</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>save-config</code></td>
<td>Copy the Running configuration to the Startup configuration.</td>
</tr>
</tbody>
</table>

display

Displays the current configuration, or the candidate configuration before a commit is issued. Display options vary by context, enter the `help display` command in a context to view the available options.

Syntax

```
display
```

display [xml]

edit

The edit context modifies the configuration that identifies the security policy and interfaces that you can configure for your device.
Edit takes an instance of the running configuration file. This instance is your version. After making modifications to this candidate configuration version, you have the option of saving it to the running configuration, or discarding any changes you made. To discard, simply `exit`. To save your candidates configuration, enter the `commit` command before exiting the edit context. To see commands under the edit context, see `Edit configuration mode`.

`ips{}`

`ips{edit}`

`ips{running}`

Valid entries at this position are:

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>aaa</td>
<td>Configure users, roles, and remote authentication</td>
</tr>
<tr>
<td>actionsets</td>
<td>Enter action sets context</td>
</tr>
<tr>
<td>autodv</td>
<td>Enter autodv context</td>
</tr>
<tr>
<td>certificates</td>
<td>Enter certificates context</td>
</tr>
<tr>
<td>debug</td>
<td>Enter debug context</td>
</tr>
<tr>
<td>delete</td>
<td>Delete file or configuration item</td>
</tr>
<tr>
<td>display</td>
<td>Display file or configuration item</td>
</tr>
<tr>
<td>dns</td>
<td>Enter DNS context</td>
</tr>
<tr>
<td>exit</td>
<td>Exit edit context, see also <code>save-config</code></td>
</tr>
<tr>
<td>gen</td>
<td>Timezone, ssh/https access, ip-to-hostname association</td>
</tr>
<tr>
<td>help</td>
<td>Display help information</td>
</tr>
<tr>
<td>high-availability</td>
<td>Enter high-availability context</td>
</tr>
<tr>
<td>interface</td>
<td>Enter interface context</td>
</tr>
<tr>
<td>ips</td>
<td>Enter IPS profile context</td>
</tr>
<tr>
<td>log</td>
<td>Enter log context</td>
</tr>
<tr>
<td>notifycontacts</td>
<td>Enter notify contacts context</td>
</tr>
<tr>
<td>ntp</td>
<td>Enter NTP context</td>
</tr>
<tr>
<td>reputation</td>
<td>Enter Reputation context</td>
</tr>
<tr>
<td>security-policy-reset</td>
<td>Reset IPS security policy to default values</td>
</tr>
<tr>
<td>segments</td>
<td>Segments context</td>
</tr>
<tr>
<td>services</td>
<td>Enter services context</td>
</tr>
<tr>
<td>sflow</td>
<td>sFlow context</td>
</tr>
<tr>
<td>snmp</td>
<td>Enter SNMP context</td>
</tr>
<tr>
<td>traffic-management</td>
<td>Enter traffic-management profile context</td>
</tr>
<tr>
<td>virtual-segments</td>
<td>Enter virtual-segments context</td>
</tr>
<tr>
<td>vlan-translations</td>
<td>Enter vlan-translations context</td>
</tr>
</tbody>
</table>

`ips{running}commit`

`ips{running}exit`

`ips{}`

**Note**

Use debug commands only when you are instructed to do so by TippingPoint product support.

**help**

Displays help information.

**Syntax**

`help [full|COMMAND]`
Root commands

The top level root command line mode displays the ips{} prompt. Commands at this level are used for managing and monitoring system operations for the various subsystems. From the root command mode, you can access the configuration mode, and the available commands that apply to the device as a whole. Enter help full or help COMMANDNAME at the command prompt to display a list of available commands or help on a specific command.

ips{}help

The default ips{} command prompt can be changed using the host name command in the interface mgmt context of the edit mode. For example:

ips{}edit
ips{running}interface mgmt
ips{running-mgmt}help host (displays valid entries for configuring management port host settings)
ips{running-mgmt}host ? (displays valid entries for host command)
ips{running-mgmt}host name yourhostname

Note
Use debug commands only when you are instructed to do so by TippingPoint product support.

boot

Lists software packages and rollback to a previous version.

Syntax
boot (list-image|rollback)

chpasswd

Enter this command to change the password for your local user account, or for another local user. To change the password for another user, you must be associated with the SuperUser role.

You can use this command when the device is managed by the SMS, or is unmanaged.

Syntax
chpasswd user_name

clear

Clears system stats, logs, locked users, adaptive filter configurations (AFCs), or packet traces.

Syntax
clear adaptive-filter [all|FILTERNUMBER]
clear connection-table {blocks|trusts}
clear log-file {audit|fwAlert|fwBlock|ipsAlert|ipsBlock|quarantine|reputationAlert|reputationBlock|system}
clear np engine filter
clear np engine packet
clear np engine parse
clear np engine reputation dns
clear np engine reputation ip
clear np engine rule
clear np reassembly ip
clear np reassembly tcp
clear np rule-stats
clear np softlinx
clear np tier-stats
clear counter policy
clear rate-limit streams
clear users all [locked|ip-locked]
clear users (NAME|A.B.C.D|X:X::X:X) [locked]

date

Used alone to set and display the current date and time, or with arguments to configure the date in a 24-hour format. The date command shows the current time in the time zone configured on the device and the "gmt" argument shows the time in GMT (UTC).

Syntax
date [MMDDhhmm[[CC]YY][.ss]]
date gmt

delete

Deletes various items.

Syntax
delete

Valid entries at this position are:

delete auxdv <auxdv name>
delete dv-toolkit
delete sms must-be-ip
delete traffic-file FILENAME

delete auxdv

Delete Aux DV.

Syntax
delete auxdv <auxdv name>
display conf

Displays information on a particular configuration file in either the start configuration or the running configuration.

Syntax

display conf start|running conf-name

Enter the display conf command and press the Tab key twice to display a list of available configuration files.

```
ips{}display conf running
aaa       actionsets       autodv       certificates
dns       gen             highavailability inspection-bypass
interface ips             log          notifycontacts
ntp       reputation      segment1    segment2
segment3  segment4        segment5    segment6
segment7  segment8        snmp         ssl-inspection
traffic-management virtual-segments vlan-translations debug
```

Displays SSL configuration.

```
ips{}display conf running ssl-inspection
```

display-config

Displays information on the configuration specified (either the start configuration or the running configuration).

Syntax

display-config (start|running)

edit

The edit context modifies the configuration that identifies the security policy and interfaces that you can configure for your device.

Edit takes an instance of the running configuration file. This instance is your version. After making modifications to this candidate configuration version, you have the option of saving it to the running configuration, or discarding any changes you made. To discard, simply exit. To save your candidates configuration, enter the commit command before exiting the edit context. To see commands under the edit context, see Edit configuration mode.

```
ips{}
ips{}edit
ips{running}
```

Valid entries at this position are:

```
aaa Configure users, roles, and remote authentication
actionsets Enter action sets context
autodv Enter autodv context
certificates Enter certificates context
debug Enter debug context
delete Delete file or configuration item
display Display file or configuration item
dns Enter DNS context
exit Exit edit context, see also save-config
gen Timezone, ssh/https access, ip-to-hostname association
help Display help information
high-availability Enter high-availability context
```
### Interface Commands

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>interface</td>
<td>Enter interface context</td>
</tr>
<tr>
<td>ips</td>
<td>Enter IPS profile context</td>
</tr>
<tr>
<td>log</td>
<td>Enter log context</td>
</tr>
<tr>
<td>notifycontacts</td>
<td>Enter notify contacts context</td>
</tr>
<tr>
<td>ntp</td>
<td>Enter NTP context</td>
</tr>
<tr>
<td>reputation</td>
<td>Enter Reputation context</td>
</tr>
<tr>
<td>security-policy-reset</td>
<td>Reset IPS security policy to default values</td>
</tr>
<tr>
<td>segments</td>
<td>Segments context</td>
</tr>
<tr>
<td>services</td>
<td>Enter services context</td>
</tr>
<tr>
<td>sflow</td>
<td>sFlow context</td>
</tr>
<tr>
<td>snmp</td>
<td>Enter SNMP context</td>
</tr>
<tr>
<td>traffic-management</td>
<td>Enter traffic-management profile context</td>
</tr>
<tr>
<td>virtual-segments</td>
<td>Enter virtual-segments context</td>
</tr>
<tr>
<td>vlan-translations</td>
<td>Enter vlan-translations context</td>
</tr>
</tbody>
</table>

### Debug Commands

ips{(running)commit
ips{(running)exit
ips{}

---

**Note**

Use debug commands only when you are instructed to do so by TippingPoint product support.

---

**fips-mode-enable**

Enables the Federal Information Processing Standard (FIPS) on a TPS device.

Before you run this command, always reset the device to factory default settings.

When you run this command, it prompts you to confirm that you want to enable FIPS mode. After you enable FIPS mode, it cannot be disabled except by resetting the device to factory defaults.

---

**Note**

Both RADIUS and TACACS+ authentication use protocols that are not FIPS-compliant. Do not enable FIPS mode if you have remote authentication configured.

---

After you run this command, you must reboot the device to enable FIPS mode. If FIPS mode fails, the reboot aborts and the user is sent to the system recovery prompt. In addition, the system log records a message with a **PASS** or **FAIL** status of FIPS mode. For help diagnosing the issue, contact support.

**Syntax**

`fips-mode-enable`

Use the `show fips-mode` command to verify whether FIPS mode was successfully enabled.

---

**halt**

Enter the `halt` command to shut down the TippingPoint operating system and halt the CPU while maintaining power to the device. After you run this command, the device still has power so Layer-2 Fallback (L2FB) enables traffic to pass through the device:

- For the 440T, power can be removed by unplugging the unit or by turning off the power switch on the back of the unit. To restart the 440T, wait at least 60 seconds before you re-apply power.
• For the 2200T, power can be removed by holding down the front panel power button for 5 seconds, and can be restored by pressing the power button.

Syntax

halt

**high-availability**

Use the `high-availability` context to manage Intrinsic Network High Availability (INHA) and Zero-Power High Availability (ZPHA).

• **INHA** determines how the device manages traffic on each segment in the event of a system failure:
  - *Layer-2 Fallback (L2FB)* – Either permits or blocks all traffic on each segment, depending on the INHA L2FB action setting for the segment. Any permitted traffic is not inspected.

  **Important**
  
  If you enable INHA L2FB, L2FB **not** persist when you reboot the device.

  • *Normal* – Permits and inspects traffic across all segments.

• **ZPHA** determines how the device routes traffic in the event of a loss of system power:
  - *Bypass* – Bypasses traffic at the port level to maintain high availability of any network segments that have ZPHA support. When ZPHA bypass is enabled, the INHA Layer-2 fallback action setting for each segment is ignored.

  **Important**
  
  If you enable ZPHA bypass, bypass persists when you reboot the device.

  • *Normal* – Routes traffic from each network segment to the Threat Suppression Engine (TSE) for inspection.

ZPHA support varies by device:

• On a TippingPoint TX Series device, optional bypass I/O modules provide high availability for copper and fiber segments. You can enable bypass mode on a particular slot or all slots with a bypass I/O module. When you configure a TX Series device, use the `slot` parameter to specify a particular I/O slot or the `all` parameter to specify all slots.

• On a TippingPoint 2200T security device, ZPHA support is built-in for copper segments. An external ZPHA module is required to enable ZPHA on SFP and SFP+ segments. Bypass mode can be enabled on all segments of the device only.

• On a TippingPoint 440T security device, ZPHA support is built-in for copper segments only. Bypass mode can be enabled on all segments of the device only. You do not need to specify the `all` parameter to enable ZPHA bypass on a TPS 440T or 2200T security device

• On a TippingPoint Virtual Threat Protection System (vTPS) security device, ZPHA bypass mode cannot be enabled.

Syntax

Enables INHA L2FB.

```
high-availability force (fallback|normal)
```

Enables ZPHA bypass.
keystore

Changes the keystore mode to enable private keys to be secured in the device keystore or the SMS. This command automatically clears the contents of the keystore. If the device is managed by the SMS, first unmanage the device, then use this command to persist private keys on the device.

Only use this command when absolutely necessary, such as when the device has lost contact with the SMS, or other similar troubleshooting situations. Under normal conditions, this setting should only be changed by using the SMS.

Change the keystore mode, for example, if the SMS is unreachable and you want the device to persist its own private keys. Use the `sms-unmanage` command to unmanage the device, and then use the `keystore on-device` command to change the keystore mode to the local keystore. After you change the keystore mode, use the `save-config` command to copy the running configuration (which includes the private keys in the Running configuration) to the Start configuration. If the private keys are not in the running configuration, for example, because you rebooted the device after you unmanaged it, use the `private-key` command to import the private keys manually.

**Note**

When the keystore mode is `sms-managed`, private keys are not persisted in the device keystore.

Syntax

```
keystore on-device|sms-managed
```

Related commands

<table>
<thead>
<tr>
<th>COMMAND</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ips{running-certificates}private-key</code></td>
<td>Import the private key from your web server into the local keystore on the device.</td>
</tr>
<tr>
<td><code>ips{running-certificates}certificate</code></td>
<td>Import the certificate from your web server into the local keystore on the device.</td>
</tr>
<tr>
<td><code>ips{running-sslinsp}server</code></td>
<td>Add an SSL server to the device with the same security settings as your web server, and assign the corresponding certificate and private key.</td>
</tr>
</tbody>
</table>

list

Displays traffic capture file list.

Syntax

```
list traffic-file
```

log-configure

Enters log configuration context.

Syntax

```
log-configure
```
logout

Logs you out of the system.

Syntax
logout

master-key

You can set the master key to a device-generated key that is unique to the device or specify your own master key passphrase. By default, TOS v5.0.0 and later encrypts the system keystore with a device-generated master key.

(Best Practice) To avoid keystore issues with a TOS rollback, set the master key to a passphrase that you specify. If the keystore in the rollback image is secured with a different master key than the master key that is set on the device, you can set the master key to the correct passphrase. For more information, see the Local Security Manager User Guide.

Before you change the master key, keep in mind the following points:

• By default, the external user disk is not encrypted. You can easily access the contents of the external user disk from a different device.

• If you choose to encrypt the external user disk, the master key encrypts and decrypts the external user disk.

  • If you change the master key while the external user disk is encrypted, all traffic logs, snapshots, ThreatDV URL Reputation Feed, User-defined URL Entries database, and packet capture data are erased from the external user disk.

  • To access the contents of an encrypted external user disk from a different device, for example to restore a snapshot, the same master key must also be set on the device.

**Note**

For security purposes, these commands require you to re-enter your password. If you incorrectly enter your password too many times, you are temporarily locked out for two minutes. To verify your account lock status, enter the show user locked command.

Enter an option to set the master key:

• passphrase – This option allows you to specify a passphrase for the master key.

  The passphrase must meet the following complexity requirements:

  • Must be between 9 and 32 characters in length

  • Combination of uppercase and lowercase alpha and numbers

  • Must contain at least one special character (!@#$%)

• device-generated-key – This option generates a passphrase for the master key.

Syntax
master-key (set [device-generated-key|passphrase]|reset-keystore)

ping

Tests connectivity with ICMP traffic. The mgmt option uses the management interface.

Syntax
ping (A.B.C.D|HOSTNAME) [count INT] [maxhop INT] [from A.B.C.D] [datasize INT]
ping (A.B.C.D|HOSTNAME) [count (1-900000)] [maxhop (1-800)] [from A.B.C.D] [datasize (64-65468)]

ping6 (X:X::X|HOSTNAME) [count INT] [maxhop INT] [from X:X::X] [datasize INT]

ping6 (X:X::X:X|HOSTNAME) [count (1-900000)] [maxhop (1-800)] [from X:X::X:X] [datasize (64-65468)]

ping6
Tests connectivity with ICMPv6 traffic.

Syntax
ping6 (X:X::X:X|HOSTNAME) [count (1-900000)] [maxhop (1-800)] [from X:X::X:X] [datasize (64-65468)]

quarantine
Manages the quarantined traffic and IP address. Enables you to see and clear a quarantine list, and add or remove quarantined IP addresses.

Syntax
quarantine add <IP> <Actionset>
quarantine remove <IP>
quarantine empty
quarantine list

Related commands
show quarantine-list

reboot
Reboots the system. On a TPS device, this command puts the device in Intrinsic HA Layer-2 Fallback mode until the TOS completes its boot sequence. On a vTPS device, traffic flow is interrupted until the boot sequence completes because, unlike a TPS device, the network ports on the vTPS device are virtual.

Specify a full system restart with the full option. On a TPS device, this command temporarily removes power from the device which puts the device in ZPHA Bypass mode until the TOS completes its boot sequence. On a vTPS device, traffic flow is interrupted until the boot sequence completes because, unlike the TPS device, the network ports on the vTPS device are virtual. Syntax

reboot [full]

reports
Configure data collection for on-box reports.

Syntax
reports (reset|enable|disable) [all|cpu|disk|fan|memory|network|rate-limiter|temperature|traffic-profile|vpn]

Valid entries:
reset Delete report data
enable            Start data collection for reports
disable           Stop data collection for reports

Related commands

show reports

resize

Resizes the terminal.

Syntax
resize

save-config

Copies the Running configuration to the Startup configuration. When you reboot the device, the Startup configuration is applied to the device.

Note
To run this command, you must be at the top-level root ips{} mode. To run this command without exiting the current context, prepend an exclamation mark (!) to the command. When run from a context, this command does not commit your pending changes to the Running configuration.

Syntax
save-config

Related commands

<table>
<thead>
<tr>
<th>COMMAND</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>commit</td>
<td>Commit your pending changes to the Running configuration.</td>
</tr>
</tbody>
</table>

service-access

Enables or disables service access.

Syntax
service-access (enable|disable)

set

Configures an item.

Syntax
set cli filtering rule (auto-comment|no-auto-comment|(last-auto-comment-value INT))

setup

Runs the setup wizard.

Syntax
setup
show

View current system configuration, status, and statistics.

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>show aaa</td>
<td>Show AAA information.</td>
</tr>
<tr>
<td>show auxdv</td>
<td>Show the AuxDV package.</td>
</tr>
<tr>
<td>show date</td>
<td>Show the current router date and time.</td>
</tr>
<tr>
<td>show dns</td>
<td>Show Domain Name Service.</td>
</tr>
<tr>
<td>show filter</td>
<td>Show filter information.</td>
</tr>
<tr>
<td>show health</td>
<td>Show health information.</td>
</tr>
<tr>
<td>show high-availability</td>
<td>Show high-availability status.</td>
</tr>
<tr>
<td>show interface</td>
<td>Show network interface.</td>
</tr>
<tr>
<td>show key</td>
<td>Show local server SSH key information.</td>
</tr>
<tr>
<td>show license</td>
<td>Show the license number and status.</td>
</tr>
<tr>
<td>show log-file</td>
<td>Show the log files.</td>
</tr>
<tr>
<td>show log-file boot</td>
<td>Show the boot file.</td>
</tr>
<tr>
<td>show mfg-info</td>
<td>Show manufacturing information.</td>
</tr>
<tr>
<td>show np engine</td>
<td>Show net processor statistics.</td>
</tr>
<tr>
<td>show np general statistics</td>
<td>Show general network processor information.</td>
</tr>
<tr>
<td>show np mcfilt-rule-stats</td>
<td>Show microfilter rules, number of flows, successful matches.</td>
</tr>
<tr>
<td>show np protocol-mix</td>
<td>Show network processor protocol-level statistics.</td>
</tr>
<tr>
<td>show np reassembly</td>
<td>Show network processor reassembly statistics.</td>
</tr>
<tr>
<td>show np rule-stats</td>
<td>Show network processor rules, number of flows, successful matches.</td>
</tr>
<tr>
<td>show np softlinx</td>
<td>Show network processor softlinx statistics.</td>
</tr>
<tr>
<td>show np tier-stats</td>
<td>Show network processor throughput and utilization for each tier.</td>
</tr>
<tr>
<td>show ntp</td>
<td>Show the current NTP settings.</td>
</tr>
<tr>
<td>show quarantine-list</td>
<td>Show quarantine list information.</td>
</tr>
<tr>
<td>show reports</td>
<td>Show status of data collection for reports.</td>
</tr>
<tr>
<td>show service</td>
<td>Show network service information.</td>
</tr>
<tr>
<td>show sflow</td>
<td>Show sFlow sampling configuration information.</td>
</tr>
<tr>
<td>show sms</td>
<td>Show status of SMS control.</td>
</tr>
<tr>
<td>show snmp</td>
<td>Show SNMP information.</td>
</tr>
<tr>
<td>show stacking</td>
<td>Show stacking information.</td>
</tr>
<tr>
<td>show system connections</td>
<td>Show active socket information.</td>
</tr>
<tr>
<td>show system processes</td>
<td>Show system processes.</td>
</tr>
</tbody>
</table>
**show system queue-stats**
Show internal queue stats.

**show system statistics**
Show system-wide protocol-related statistics.

**show system usage**
Show system usage.

**show system virtual-memory**
Show system virtual memory.

**show system xms memory**
Show xms memory usage.

**show terminal**
Show terminal settings.

**show traffic-file**
Show network traffic from file.

**show tse**
Show threat suppression engine information.

**show user-disk**
Show user-disk statistics.

**show users**
Show users information.

**show version**
Show device version information.

**show virtual segments**
Show virtual segment configuration.

### show aaa

**Syntax**
```
show aaa capabilities USER
```

### show auxdv

Displays AuxDV package.

**Syntax**
```
show auxdv
```

### show date

Shows the GMT time or the local time and time zone for the device.

**Syntax**
```
show date [gmt]
```

### show dns

**Syntax**
```
show dns
```

### show filter

Displays the filters.

**Syntax**
```
show filter [XFILTERNUMBER | UDVFILTERNUMBER]
```
show health
Shows health information.
Syntax
show health

show high-availability
Syntax
show high-availability

Related Commands
high-availability force (fallback|normal)
high-availability zero-power (slot <number>|all) (bypass-ips|normal)

show inspection-bypass
Syntax
show inspection-bypass

show interface
Syntax
show interface [INTERFACE [statistics [update INT]]]

show key
Shows local server SSH key.
Syntax
show key

show license
Syntax
show license

show log-file
The following log files are available:
- system
- audit
- boot
- ipsAlert
• ipsBlock
• reputationAlert
• reputationBlock
• quarantine

show log-file boot

Syntax
show log-file boot [tail [COUNT]] [more]

show log-file boot [search {0,2} PATTERN] [count COUNT] [more]

If using the more option, the colon will display in the output, to indicate more information is available. Press the Enter key for the scroll to continue, or enter a q to exit and return to the ips{} prompt.

show log-file FILE_NAME

Syntax

show log-file audit [raw|tab|csv|rawcsv] [addUUID]
[ASC|DESC| (tail [COUNT])] [seqnum] [more]

show log-file ipsAlert [raw|tab|csv|rawcsv] [addUUID]
[ASC|DESC| (tail [COUNT])] [seqnum] [more]

show log-file ipsBlock [raw|tab|csv|rawcsv] [addUUID]
[ASC|DESC| (tail [COUNT])] [seqnum] [more]

show log-file quarantine [raw|tab|csv|rawcsv] [addUUID]
[ASC|DESC| (tail [COUNT])] [seqnum] [more]

show log-file reputationAlert [raw|tab|csv|rawcsv]
[addUUID] [ASC|DESC| (tail [COUNT])] [seqnum] [more]

show log-file reputationBlock [raw|tab|csv|rawcsv]
[addUUID] [ASC|DESC| (tail [COUNT])] [seqnum] [more]

show log-file summary [raw|tab|csv|rawcsv] [addUUID]
[ASC|DESC| (tail [COUNT])] [seqnum] [more]

show log-file system [raw|tab|csv|rawcsv] [addUUID]
[ASC|DESC| (tail [COUNT])] [seqnum] [more]

show log-file boot [raw|tab|csv|rawcsv] [addUUID]
[ASC|DESC| (tail [COUNT])] [seqnum] [more]

show log-file audit [raw|tab|csv|rawcsv] [addUUID] [ASC|DESC]
[search {0,2} PATTERN][start-time START][end-time END]
[seqnum[ [begin BEGIN][end END]]][count COUNT] [more]

show log-file ipsAlert [raw|tab|csv|rawcsv] [addUUID] [ASC|DESC]
[search {0,2} PATTERN][start-time START][end-time END]
[seqnum[ [begin BEGIN][end END]]][count COUNT] [more]

show log-file ipsBlock [raw|tab|csv|rawcsv] [addUUID] [ASC|DESC]
[search {0,2} PATTERN][start-time START][end-time END]
[seqnum[ [begin BEGIN][end END]]][count COUNT] [more]
show log-file quarantine    [raw|tab|csv|rawcsv] [addUUID] [ASC|DESC]
[search [(options)]]{0,2} PATTERN [start-time START] [end-time END]
[seqnum [begin BEGIN] [end END]] [count COUNT] [more]

show log-file reputationAlert    [raw|tab|csv|rawcsv] [addUUID] [ASC|DESC]
[search [(options)]]{0,2} PATTERN [start-time START] [end-time END]
[seqnum [begin BEGIN] [end END]] [count COUNT] [more]

show log-file reputationBlock    [raw|tab|csv|rawcsv] [addUUID] [ASC|DESC]
[search [(options)]]{0,2} PATTERN [start-time START] [end-time END]
[seqnum [begin BEGIN] [end END]] [count COUNT] [more]

show log-file summary    [raw|tab|csv|rawcsv] [addUUID] [ASC|DESC]
[search [(options)]]{0,2} PATTERN [start-time START] [end-time END]
[seqnum [begin BEGIN] [end END]] [count COUNT] [more]

show log-file system    [raw|tab|csv|rawcsv] [addUUID] [ASC|DESC]
[search [(options)]]{0,2} PATTERN [start-time START] [end-time END]
[seqnum [begin BEGIN] [end END]] [count COUNT] [more]

show log-file boot    [raw|tab|csv|rawcsv] [addUUID] [ASC|DESC]
[search [(options)]]{0,2} PATTERN [start-time START] [end-time END]
[seqnum [begin BEGIN] [end END]] [count COUNT] [more]

show log-file audit    [raw|tab|csv|rawcsv] [addUUID] [ASC|DESC]
[search COLUMN cmp PATTERN [and|or COLUMN cmp PATTERN]{1,25}
[start-time START] [end-time END] [seqnum [begin BEGIN] [end END]]
[count COUNT] [more]

show log-file ipsAlert    [raw|tab|csv|rawcsv] [addUUID] [ASC|DESC]
[search COLUMN cmp PATTERN [and|or COLUMN cmp PATTERN]{1,25}
[start-time START] [end-time END] [seqnum [begin BEGIN] [end END]]
[count COUNT] [more]

show log-file ipsBlock    [raw|tab|csv|rawcsv] [addUUID] [ASC|DESC]
[search COLUMN cmp PATTERN [and|or COLUMN cmp PATTERN]{1,25}
[start-time START] [end-time END] [seqnum [begin BEGIN] [end END]]
[count COUNT] [more]

show log-file quarantine    [raw|tab|csv|rawcsv] [addUUID] [ASC|DESC]
[search COLUMN cmp PATTERN [and|or COLUMN cmp PATTERN]{1,25}
[start-time START] [end-time END] [seqnum [begin BEGIN] [end END]]
[count COUNT] [more]

show log-file reputationAlert    [raw|tab|csv|rawcsv] [addUUID] [ASC|DESC]
[search COLUMN cmp PATTERN [and|or COLUMN cmp PATTERN]{1,25}
[start-time START] [end-time END] [seqnum [begin BEGIN] [end END]]
[count COUNT] [more]

show log-file reputationBlock    [raw|tab|csv|rawcsv] [addUUID] [ASC|DESC]
[search COLUMN cmp PATTERN [and|or COLUMN cmp PATTERN]{1,25}
[start-time START] [end-time END] [seqnum [begin BEGIN] [end END]]
[count COUNT] [more]

show log-file summary    [raw|tab|csv|rawcsv] [addUUID] [ASC|DESC]
[search COLUMN cmp PATTERN [and|or COLUMN cmp PATTERN]{1,25}
[start-time START] [end-time END] [seqnum [begin BEGIN] [end END]]
[count COUNT] [more]

show log-file system    [raw|tab|csv|rawcsv] [addUUID] [ASC|DESC]
show log-file FILE_NAME stat

Shows the beginning sequence number, ending sequence number, and number of messages for the given log file.

Syntax
show log-file FILE_NAME stat

show log-file summary

Syntax
show log-file summary [verbose]

show mfg-info

Shows manufacturing information.
Syntax
show mfg-info

show np engine
Shows network processor information.

Syntax
show np engine(filter|packet|parse|reputation(ip|dns)|rule)
filter - Show filter-level statistics
packet - Show packet-layer statistics
parse - Show packet parsing statistics
reputation - Show reputation statistics on either IP or DNS
rule - Show rule statistics

show np general statistics
Shows general network processor information.

Syntax
show np general statistics

show np mcfilt-rule-stats
Shows microfilter rules, number of flows, and successful matches.

Syntax
show np mcfilt-rule-stats

show np protocol-mix
Syntax
show np protocol-mix

show np reassembly
Syntax
show np reassembly (ip|tcp)

show np rule-stats
Syntax
show np rule-stats

show np softlinx
Syntax
show np softlinx

show np tier-stats
Displays statistics for monitoring activity since the last reboot of the device. Reboot the device to reset these counters.
Syntax
show np tier-stats

**show ntp**

Syntax
show ntp

**show quarantine-list**

Syntax
show quarantine-list

**show reports**

Shows the status of the data collection for reports.

Syntax
show reports

**show service**

Shows the state of all the services.

Syntax
show service

**show sflow**

Syntax
show sflow

**show slot**

Displays slot configuration, including the module type currently in the slot. Changes to the slot configuration are not reflected in the output of this command until after you reboot the device.

Syntax
show slot

**show sms**

Syntax
show sms

**show snmp**

Syntax
show snmp

**show ssl-inspection congestion**

Shows SSL inspection information, including the average number of SSL connections per second, the number of current SSL connections (and the device limit), and whether SSL sessions that exceed the device limit are not inspected or blocked. By default, SSL sessions that exceed the device limit are not inspected.
Syntax
show ssl-inspection congestion

show stacking

Enter this command to show stacking status information.

Syntax
show stacking

Reference

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stacking enabled</td>
<td>Indicates whether stacking is enabled on the device.</td>
</tr>
<tr>
<td>Stacking active</td>
<td>Indicates whether stacking is currently functioning.</td>
</tr>
<tr>
<td>Stack member state</td>
<td>Indicates the current working state of this device on the stack.</td>
</tr>
<tr>
<td>Stack master</td>
<td>Indicates whether this device manages the state of the stack.</td>
</tr>
<tr>
<td>Number of devices configured in stack</td>
<td>Indicates the number of TippingPoint TPS security devices that are connected together through the stacking bus.</td>
</tr>
<tr>
<td>Number of devices required in stack</td>
<td>Indicates the minimum number of devices that must be available to the stack for normal operation. If the number of normal devices falls below this threshold, the stack goes into Intrinsic HA L2FB.</td>
</tr>
<tr>
<td>Advertised state</td>
<td>Indicates the state that the device advertises to the stack master.</td>
</tr>
</tbody>
</table>

show system connections

Syntax
show system connection [ipv4|ipv6|sctp|unix]

show system processes

Syntax

show system processes [LEVEL]
  brief       Brief process information
  detail      Detailed process information
  extensive   Extensive process information
  summary     Active process information

show system queue-stats

Show internal queue statistics.

Syntax

show system queue-stats [fast-path]
show system statistics

Syntax
show system statistics [fast-path] [non-zero]

show system usage

Shows the overall system usage. You can run once, or display an updated version every INT seconds. Ctrl-C will exit a re-occurring update.

Syntax
show system usage [update INT]

show system virtual-memory

Shows the system’s kernel memory usage in a table with the following column headings:

- name
- active_objs
- num_objs
- objsize
- objperslab
- pagesperslab
- tunables
- limit
- batchcount
- sharedfactor
- slabdata
- active_slabs
- num_slabs
- sharedavail

Syntax
show system virtual-memory

show system xms memory

Shows xms memory statistics.

Syntax
show system xms memory (all| SERVICE)

show terminal

Shows terminal type information.

Syntax
show terminal

show traffic-file

Syntax
show traffic-file FILENAME [verbose INT] [proto PROTO] [without PROTO] [pcap FILTER] [pager]

Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>traffic-file</td>
<td>Show network traffic from file</td>
</tr>
<tr>
<td>FILENAME</td>
<td>Capture file name</td>
</tr>
<tr>
<td>verbose</td>
<td>Configure verbosity level</td>
</tr>
<tr>
<td>INT</td>
<td>Verbosity level (0: minimum verbosity)</td>
</tr>
<tr>
<td>proto</td>
<td>Configure captured packets protocol</td>
</tr>
<tr>
<td>PROTO</td>
<td>Protocol name (default: all)</td>
</tr>
<tr>
<td>without</td>
<td>Configure excluded packets protocol</td>
</tr>
<tr>
<td>PROTO</td>
<td>Protocol name (default: all)</td>
</tr>
<tr>
<td>pcap</td>
<td>Configure pcap-syntax filter</td>
</tr>
<tr>
<td>FILTER</td>
<td>Pcap filter string (e.g. &quot;src port 22&quot;)</td>
</tr>
<tr>
<td>pager</td>
<td>Show all messages</td>
</tr>
</tbody>
</table>

show tse

Shows threat suppression engine information.

Syntax
show tse (adaptive-filters|connection-table(blocks|trusts)|rate-limit|ssl-inspection)

show tse connection-table

Syntax
show tse connection-table TYPE

show user-disk

Syntax
show user-disk

show users

Syntax
show users [locked|ip-locked]

show version

Syntax
show version

show virtual segments

Shows virtual segment configuration.

Syntax
show virtual segments [summary]
sms

Allows you to configure SMS settings and release SMS.

Syntax

gsms must-be-ip (A.B.C.D|A.B.C.D/M)

gsms unmanage

Related commands

show sms

snapshot create

Allows you to manage system snapshots.

Syntax

```plaintext
snapshot create NAME[(reputation|manual|network)]
```

Default is do not include the following:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>manual</td>
<td>Include manually defined reputation entries in snapshot</td>
</tr>
<tr>
<td>network</td>
<td>Include Management port configuration in snapshot</td>
</tr>
<tr>
<td>reputation</td>
<td>Include reputation package in snapshot</td>
</tr>
<tr>
<td>nonet</td>
<td>Does not restore management port configuration if present in snapshot</td>
</tr>
</tbody>
</table>

snapshot list

Syntax

snapshot list

snapshot remove

Syntax

snapshot remove

snapshot restore

A snapshot enables you to restore a device to a previously known working state. Restore a snapshot to the same device or to a different device. You can also export a snapshot and send it to TippingPoint Technical Support for assistance with troubleshooting or debugging the device. All snapshots are stored on the external user disk (CFast or SSD).

Make sure the device where you want to restore the snapshot meets the following requirements:

- The TOS version on the device is the same as the TOS version that was installed when the snapshot was taken.
- The device is the same model as the device where the snapshot was taken. For example, you can restore a snapshot from a 2200T to a 2200T.

When restoring a snapshot, keep in mind:

- The contents of the system keystore are not included in the snapshot. When you restore a snapshot to a different device, you should plan to also import any private key information from the device where the snapshot was taken.
- Never delete certificates that are used in snapshots that have, or have had, SSL configurations. Although the system will still complete its reboot sequence after restoring a snapshot that has had its SSL configuration (and corresponding
device certificate) removed, the restored SSL configuration will not be functional until you update the private key for each certificate or replace the entire SSL configuration.

- When you want to restore a snapshot to a different device, and URL Reputation Filtering is enabled, a full synchronization of the Reputation database is required after you restore the snapshot. The snapshot does not include the ThreatDV URL Reputation Feed and User-defined URL Entries database. For more information, see the SMS User Guide.

- The snapshot includes the license package. The license package provides license information for each of your TippingPoint devices. If the license package that was included in the snapshot is outdated, restore the snapshot and then download and install an updated license package from the TMC.

- If an external ZPHA was configured on the original device, be sure to add an external ZPHA to the target device or update the device configuration to remove ZPHA.

Syntax

```
snapshot restore NAME
```

**tcpdump**

Allows you to capture network traffic to the terminal or a file. You can specify a maximum packet count or a maximum capture file size. If you record the capture to a file you must specify a maximum packet count or maximum capture file size. Maxsize is the maximum size of the capture file in millions of bytes, which is limited by the currently available disk allocation.

Syntax

```
tcpdump INTERFACE [record FILENAME [maxsizebytes 1-10000000]] [packetcount 1-10000000] [proto (icmp|igmp|tcp|udp|esp|ah|pim|snp|vrrp|stp|isis|sctp)] [without (icmp|igmp|tcp|udp|esp|ah|pim|snp|vrrp|stp|isis|sctp)] [pcap FILTER] [cponly] [pager] [background]
tcpdump stop
```

**tech-support-report**

Collects diagnostic information into a Tech Support Report (TSR) that TippingPoint Support can use to debug and troubleshoot system issues. It includes diagnostic commands, log files, and optionally a full system snapshot. The Tech Support Report snapshot captures the system’s current running configuration.

If you include a snapshot with your Tech Support Report, the snapshot does not contain the following sensitive information:

- User names and passwords
- LDAP and remote server passwords
- SNMPv3 passphrase
- HA passphrase
- VPN IPsec keys
- Keystore

Only one report can exist on the device. When you create a new report, the previous report is replaced.

After you create a TSR, use the Local Security Manager (Tools > Tech Support Report) to export and view the TSR.

You should execute this command only when requested to do so by TippingPoint Support personnel.
It can take several minutes to execute this command. By default, this command is allowed to run as long as necessary to generate the TSR. Use the max-runtime option, if necessary, to set a maximum threshold for the amount of time, in seconds, that the command is allowed to run before interrupting the report generation.

Syntax

```
tech-support-report include-traffic-logs|exclude-traffic-logs
include-snapshot|exclude-snapshot [max-runtime INSECONDS]
```

**traceroute**

Traceroute shows you the path a packet of information takes from your computer to your designation. It lists all the routers it passes through until it reaches its destination, or fails. Traceroute tells you how long router to router hops take.

Syntax

```
traceroute (A.B.C.D|HOSTNAME) [from A.B.C.D]
(traceroute|traceroute6) X:X::X:X [from X:X::X:X]
```

**traceroute6**

Trace IPv6 network routes.

Syntax

```
ips{traceroute6 (A.B.C.D|HOSTNAME) [from A.B.C.D]
```

**user-disk**

Mounts, unmounts, and formats the external user disk (CFast or SSD).

After you mount the user disk, the device can automatically mount the disk when you reboot the device.

You can also enable encryption on the external user disk to secure its contents with the system master key. The external user disk stores all traffic logs, snapshots, and packet capture data. By default, the external user disk is not encrypted.

Before you secure the external user disk, keep in mind the following points:

- When you change the encryption status of the external user disk, the device automatically formats the disk and all traffic logs, snapshots, and packet capture data are erased. On large, external CFast disks (32 GB or more), it can take 40 seconds or more to complete disk format and encryption operations.
- The system master key encrypts and decrypts the external user disk. To access the contents of an encrypted external user disk from a different device, for example to restore a snapshot, the same master key must also be set on the device.

Syntax

```
user-disk (encryption (enable|disable) | format | mount | unmount)
```

- **Unmount** – Unmount the external user disk.
- **Mount** – Mount the external disk and enable the device to automatically mount the disk on boot.
- **Format** – Format the external user disk.
- **Encryption Enable** – Enable encryption on the external user disk.

**Related commands**

```
show user-disk
```
**Log configure commands**

Enter the `log-configure` command to access the log configure context. Enter a question mark (?) at the `ips{log-configure}` prompt to display a list of valid command entries. Then enter `help` command name to display help for a specific command.

**display**

Displays log configuration settings. In contrast to the `show` command, which shows the status of a configuration, the `display` command shows what you have configured. For example, if you enable high-availability on one device but not the other, the `display` command will show that you have high-availability configured and the `show` command will show that high-availability is not in effect.

Syntax

```
display [log-sessions] [xml|verbose]
```

**email**

Allows you to set logging email daemon parameters.

Syntax

```
email set sleepSeconds SLEEPSEC
email set maxRequeue MAXREQUEUE
email delete (sleepSeconds|maxRequeue)
```

**log-file-size**

Sets log file allocation as a percentage of the total 100 percent allowed for all log files. When audit log data reaches 75% of its allocated space, an alert is generated (not configurable).

```
# LOG FILE ALLOCATION SETTINGS
# INTERNAL DISK
log-file-size system          50%
log-file-size audit           50%

#                            ----
#                      Total 100%
```

Syntax

```
log-file-size FILE_NAME USAGE[%]
log-file-size
{audit|ipsAlert|ipsBlock|quarantine|reputationAlert|
  reputationBlock|system|visibility) USAGE[%]
system and audit log files are kept on the internal disk
ipsAlert, ipsBlock, quarantine, reputationAlert,
reputationBlock, and visibility log files are kept on the external
or ramdisk drive
```
log-storage

Sets local log file allocation of external user disk (CFast or SSD) space. Usage value can range from 50 to 99 percent. By default, 3.5 GB of the disk is a reserve for non-logging storage, which includes the Reputation databases. Although this space can be reduced or increased when rare circumstances require it, reducing the reserved space can interfere with URL filtering.

Syntax

log-storage external USAGE[\%]
log-storage ramdisk USAGE[\%]
log-storage externalReserve RESERVESIZE [MB]

log-test

Sends a test message to the logging system(s).

Syntax

log-test (all|audit|quarantine|logID LOGID) [emergency [MESSAGE]]
log-test (all|audit|quarantine|logID LOGID) [alert [MESSAGE]]
log-test (all|audit|quarantine|logID LOGID) [critical [MESSAGE]]
log-test (all|audit|quarantine|logID LOGID) [error [MESSAGE]]
log-test (all|audit|quarantine|logID LOGID) [warning [MESSAGE]]
log-test (all|audit|quarantine|logID LOGID) [notice [MESSAGE]]
log-test (all|audit|quarantine|logID LOGID) [info [MESSAGE]]
log-test (all|audit|quarantine|logID LOGID) [debug [MESSAGE]]
log-test (all|audit|quarantine|logID LOGID) [msg MESSAGE]

Valid entries:
all All log systems
audit Audit system
quarantine Quarantine system
logID LogID system
LOGID Log-session ID to test
SEVERITY Set Severity level for log message (default: INFO)
Possible values for SEVERITY are:
emergency EMERG level
alert ALERT level
critical CRIT level
error ERR level
warning WARNING level
notice NOTICE level
info INFO level (default)
debug DEBUG level
msg Override default message
MESSAGE Message to send to logging system

rotate

Sets log rotation parameters.

Syntax

rotate (set|delete) defaultCheckRecords (100-65535)
rotate (set|delete) defaultFiles (2-20)
rotate (set|delete) maxFileSize (10-500MB)
rotate (set|delete) rotateMsgSeverity SEVERITY
rotate (set|delete) sleepSeconds (1-65535)
### Edit running configuration commands

Enter the `edit` command to access the configuration mode. In edit mode, you can perform numerous configurations, such as policies and authentication. After you have executed the `edit` command, the CLI prompt will be displayed as `ips{running}`. Configuration options, and sub contexts are available until you exit. To exit the edit configuration mode, enter `exit`.

The configuration mode enables administrators with the appropriate credentials to write configuration changes to the active (running) configuration. The logon account used to configure the device must either be associated with the Superuser role or the Administrator role to edit the configuration context. The configuration mode has different context levels that provide access to a specific set of configuration commands.

**Note**

Use debug commands only when you are instructed to do so by TippingPoint product support.

This section is divided as follows:

- *Edit context commands*
- *Contexts and related commands*

### Edit context commands

**aaa**

Syntax

```text
aaa
```
Related Commands

running-aaa Context Commands

**actionsets**

Enters the action sets context mode. Changes are committed and take effect immediately.

Syntax

```
actionsets
```

**autodv**

Enters Auto Digital Vaccine context mode.

Syntax

```
autodv
```

certificates

Enters certificates context mode.

Syntax

```
certificates
```

dcreate

Deletes file or configuration item.

Syntax

```
delete interface
```

display

Displays file or configuration item.

Syntax

```
display
```

Valid entries at this position are:

<table>
<thead>
<tr>
<th>Entry</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;Enter&gt;</td>
<td>Execute command</td>
</tr>
<tr>
<td>CTX</td>
<td>Context name</td>
</tr>
<tr>
<td>ip</td>
<td>Display IPv4 static routes</td>
</tr>
<tr>
<td>ipv6</td>
<td>Display IPv6 static routes</td>
</tr>
<tr>
<td>xml</td>
<td>Display in XML format</td>
</tr>
</tbody>
</table>

dns

Enters DNS context mode.

Syntax

```
dns
```
**gen**
Enters general context mode.

Syntax
```
gen
```

**high-availability**
Enters high-availability context mode.

Syntax
```
high-availability
```

**interface**
Enters interface context mode.

On TX Series devices, ports are presented in the format Slot-SegmentPort. For example, port 4A on slot 3 would be specified as “3-4A”.

Syntax
```
Configure network interface 1A in slot 3.
```
```
ips{}interface 3-1A
ips{running-3-1A}
```

Configure the management interface.
```
ips{}interface mgmt
ips{running-mgmt}
```

**Example settings**
Setting entries depend on platform type.

**Physical-media settings**
Valid physical-media settings are:
- 10half – Supported port speed and mode
- 10full – Supported port speed and mode
- 100half – Supported port speed and mode
- 100full – Supported port speed and mode
- auto-neg – Enable auto-negotiation (default is on)

**Line speed**
The line speed setting for a port.
You can set a port to 10, 100, or 1000 Kbps.

**Duplex setting**
The duplex setting for the port. Copper can be set to **full** or **half**. Fiber ports can be set to **full**.

**Auto negotiation**
The auto negotiation setting determines whether the port negotiates its speed based on the connection it can make.

**ips**

Enters IPS profile context mode.

**Note**

When IDS mode is enabled, it adjusts the device configuration so that the device operates in a manner suitable for Intrusion Detection System (IDS) scenarios and filter configurations. When IDS Mode settings are changed, reboot the device for the change to take effect.

**Syntax**

```
ips
```

**log**

Enters log context mode. Note that the Management Console notification contact for the Audit log cannot be modified.

**Syntax**

```
log
```

**notifycontacts**

Enters notify contacts context mode.

**Syntax**

```
notifycontacts
```

**ntp**

Enters notify contacts context mode.

**Syntax**

```
ntp
```

**reputation**

Enters Reputation context mode.

**Syntax**

```
reputation
```

**security-policy-reset**

Resets IPS security policy to the default values.

**Syntax**

```
security-policy-reset
```

**segments**

Enters segments context mode, which enables you to rename segments.
Syntax

segments

services
Enters services context mode.
Syntax
services

sflow
Enter sFlow® global configuration context mode.
Syntax
sflow

snmp
Enters SNMP context mode.
Syntax
snmp

ssl-inspection
Enters SSL inspection context mode.
Syntax
ssl-inspection

Related commands

<table>
<thead>
<tr>
<th>COMMAND</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>certificates</td>
<td>Store security certificates and private keys on the TPS</td>
</tr>
<tr>
<td></td>
<td>as device certificates.</td>
</tr>
<tr>
<td>virtual-segments</td>
<td>Assign an SSL inspection profile to a virtual segment.</td>
</tr>
</tbody>
</table>

traffic-management
Enters traffic-management profile context.
Syntax
traffic-management

virtual-segments
Enters virtual-segments context.
Syntax
Contexts and related commands

running-aaa Context Commands

Immediate Commit Feature. Changes take effect immediately.

**ips**(running-aaa)delete

Delete file or configuration item.

Syntax

```
delete ldap-group (LDAPNAME|all)
delete radius-group (RADIUSNAME|all)
delete role (ROLE|all)
delete tacacs-group (TACACSNAME|all)
delete user (USER|all)
delete user-group (USERGROUP|all)
```

**ips**(running-aaa)display

Display configuration.

Syntax

```
display ldap-group LDAPGROUP [xml]
display ldap-schema LDAPSCHEMA [xml]
display login-settings [xml]
display password-settings [xml]
display radius-group RADIUSGROUP [xml]
display remote-login-group [xml]
display role USER [xml]
display tacacs-group [xml]
display user USER [xml]
display usergroup USERGROUP [xml]
```

**ips**(running-aaa)disable-inactive-users

Disable users who are inactive for 35 days.

Syntax

```
disable-inactive-users
```

**ips**(running-aaa)ldap-group

Configure LDAP group. Maximum number of groups is two.

Syntax

```
ldap-group LDAPNAME
```

**ips**(running-aaa)ldap-schema

Configure LDAP schema.
ips{running-aaa}login

Configure login settings, including the timeout period for inactivity in the CLI and the LSM. By default, the timeout period for inactivity in the CLI and the LSM is 15 minutes.

Syntax

```
login maximum-attempts LOGINATTEMPTS
login failure-action FAILURE-ACTION
login lockout-period DURATION
login cli-inactive-timeout [MINUTES]
login lsm-inactive-timeout [MINUTES]
```

Example of how to set a login failure action

```
ips{running-aaa}login failure-action lockout
```

Example of help for login settings

```
ips{running-aaa}help login
```

ips{running-aaa}login-banner

Configure login banner settings, including title and banner text.

Syntax

```
login-banner (enable|disable)
login-banner text (1500 character max)
login-banner title (50 character max)
```

ips{running-aaa}password

Configure password settings.

Syntax

```
password quality (none|low|medium|high)
passowrd expiry-time (10d|20d|30d|45d|60d|90d|6m|1y)
passowrd expiry-action (force-change|notify-user|disable-account)
passowrd disallow-reuse (enable|disable)
passowrd min-lifetime (enable|disable)
```

Restrictions for the password security levels are as follows:

- **None** – User names cannot contain spaces. The maximum password length is 32 characters.
- **Low** – The same user name and password requirements as the None setting, plus the following additional requirements:
  - User names must be at least six characters in length
  - A new password must be different than the current password, and passwords must be at least eight characters in length
- **Medium** – The same user name and password requirements as the Low setting, plus the following additional password complexity requirements:
• Contains at least two alphabetic characters
• Contains at least one numeric character
• Contains at least one non-alphanumeric character (examples include ! ? $ * #). Do not use spaces in the password.

• High – The same user name and password requirements as the Medium setting, but passwords must be at least 15 characters and meet the following additional password complexity requirements:
  • Contains at least one uppercase character
  • Contains at least one lowercase character
  • At least half the characters cannot occupy the same positions as the current password.

The default is Medium.

ips{running-aaa}radius-group
Configure Radius group. Maximum number of radius groups is 2.

Syntax

radius-group RADIUSNAME

ips{running-aaa}re-auth
Configure re-authentication settings. When this command is enabled, the CLI will force users to log out on any authentication changes.

Syntax

re-auth (enable|disable)

ips{running-aaa}remote-login-group
Configure LDAP, RADIUS group, or TACACS+ group to use for administrative login.

The name you provide for each group cannot be changed. To give a group a new name, you must delete the group and recreate it with the new name.

Note
Both RADIUS and TACACS+ authentication use protocols that are not FIPS-compliant. Before configuring RADIUS or TACACS+ for remote authentication, disable FIPS mode. For more information, see fips-mode-enable.

Syntax

remote-login-group (administrator) (GROUP|none)

ips{running-aaa}role
Configure an access role.

Syntax

role ROLE [OLDROLE]
ips{running-aaa}tacacs-group

Configure TACACS+ group. Maximum number of TACACS+ groups is two.

Syntax

`tacacs-group TACACSNAME`

ips{running-aaa}user

Configure a name identified user. When you enter a username that does not exist, a new user is created.

Syntax

`user NAME`

ips{running-aaa}user-group

Configure a name identified usergroup.

Syntax

`user-group GROUPNAME`

**running-aaa-ldap-group-X Context Commands**

Immediate Commit Feature. Changes take effect immediately.

ips{running-aaa-ldap-group-mygroup1}base-dn

Configure base distinguished name (DN).

Syntax

`base-dn DN`

ips{running-aaa-ldap-group-mygroup1}bind-dn

Configure bind distinguished name (DN).

Syntax

`bind-dn DN`

ips{running-aaa-ldap-group-mygroup1}delete

Delete file or configuration item.

Syntax

`delete server (ADDRESS|all)`

ips{running-aaa-ldap-group-mygroup1}port

Configure LDAP port.

Syntax

`port <0-65535>AREDADDRESS`
ips{running-aaa-ldap-group-mygroup1}retries
Configure server(s) retries.

Syntax

retries RETRY

ips{running-aaa-ldap-group-mygroup1}server
Configure LDAP server address.

Syntax

server (A.B.C.D|X:X::X:X) priority (1-6)

ips{running-aaa-ldap-group-mygroup1}timeout
Configure timeout.

Syntax

timeout SECONDS

ips{running-aaa-ldap-group-mygroup1}tls
Configure TLS.

Syntax

tls (enable|disable)
tls start-tls (enable|disable)
tls require-valid-server-cert (enable|disable)

running-aaa-radius-group-X Context Commands

ips{running-aaa-radius-group-2}default-usergroup
Default usergroup.

Syntax

default-usergroup GROUP|none

ips{running-aaa-radius-group-2}delete
Delete file or configuration item.

Syntax

delete server (A.B.C.D|X:X::X:X|all)

ips{running-aaa-radius-group-2}auth-type
Specifies the authentication protocol for the RADIUS group. When the authentication protocol is PEAP/EAP-MSCHAPv2, be sure to also import the CA root certificate. The RADIUS group authenticates against the available CA root certificates on the device.

Syntax
auth-type PAP|MD5|PEAP/EAP-MSCHAPv2

Related commands

<table>
<thead>
<tr>
<th>COMMAND</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ips{running-certificates}ca-certificate</code></td>
<td>Import a CA certificate.</td>
</tr>
</tbody>
</table>

`ips{running-aaa-radius-group-2}retries`

Configure server retries.

Syntax

```plaintext
retries (0-3)
```

`ips{running-aaa-radius-group-2}server`

Configure server.

Syntax

```plaintext
server (A.B.C.D|X:X::X:X) [PORT] password PASSWORD priority (1-6) timeout (1-10) [nas-id NASID]
```

**running-aaa-tacacs-group-X Context Commands**

`ips{running-aaa-tacacs-group-group1}auth-type`

Specifies the authentication protocol for the TACACS+ group. Supported protocols include ASCII, PAP, and CHAP. The TACACS+ group authenticates against the available CA root certificates on the device.

Syntax

```plaintext
auth-type ASCII|PAP|CHAP
```

Related commands

<table>
<thead>
<tr>
<th>COMMAND</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ips{running-certificates}ca-certificate</code></td>
<td>Import a CA certificate.</td>
</tr>
</tbody>
</table>

`ips{running-aaa-tacacs-group-group1}default-usergroup`

Default usergroup. The default is operator.

Syntax

```plaintext
default-usergroup GROUP
```

`ips{running-aaa-tacacs-group-group1}delete`

Delete file or configuration item.

Syntax

```plaintext
delete server (A.B.C.D|X:X::X:X|all)
```
ips{running-aaa-tacacs-group-group1}retries
Configure server retries.

Syntax
retries (0-3)

ips{running-aaa-tacacs-group-group1}server
Configure TACACS+ server.

Syntax
server (A.B.C.D|X:X::X:X) [PORT] secret SECRET priority (1-6)
timeout (1-15)

running-actionsets Context Commands
Immediate Commit Feature. Changes take effect immediately.

ips{running-actionsets}actionset
Enter an action set context with defined name.

Syntax
actionsets ACTIONSETNAME

ips{running-actionsets}rename
Rename action set.

Syntax
rename actionset ACTIONSETNAME NEWACTIONSETNAME

running-actionsets-X Context Commands
Immediate Commit Feature. Changes take effect immediately.

ips{running-actionsets-myactionset1}action
Delete file or configuration item.
Set action type. Available values: permit, rate-limit, block, trust.
Immediate Commit Feature. Changes take effect immediately.

Syntax
action (permit|rate-limit|block|trust)

ips{running-actionsets-myactionset1}allow-access
Allow quarantined host to access defined IP.

Syntax
allow-access DESTIP

ips{running-actionsets-myactionset1}bytes-to-capture
Set bytes to capture for packet trace.

Syntax
bytes-to-capture BYTES

ips{running-actionsets-myactionset1}delete
Delete file or configuration item.

Syntax
delete allow-access DESTIP
delete contact XCONTACTNAME
delete limit-quarantine SOURCEIP
delete no-quarantine SOURCEIP

ips{running-actionsets-myactionset1}http-block
Set quarantine option to block HTTP traffic.

Syntax
http-block

ips{running-actionsets-myactionset1}http-redirect
Set redirect URL for HTTP redirect option.

Syntax
http-redirect URL

ips{running-actionsets-myactionset1}http-showdesc
Set or clear HTTP show description display option.

Syntax
http-showdesc (enable|disable)

ips{running-actionsets-myactionset1}limit-quarantine
Add IP for limit quarantine.

Syntax
limit-quarantine SOURCEIP

ips{running-actionsets-myactionset1}packet-trace
Configure packet trace option.

Syntax
packet-trace (enable|disable|delete|download)
**ips**(running-actionsets-myactionset1) **priority**
Set packet trace priority.

Syntax

```
priority PRIORITY
```

**ips**(running-actionsets-myactionset1) **quarantine**
Set quarantine option. Available options: no, immediate, threshold.

Syntax

```
quarantine QUARANTINETYPE
```

**ips**(running-actionsets-myactionset1) **tcp-reset**
Set tcp reset option for block action. Available options: none (disable), source, dest, or both.

Syntax

```
tcp-reset (none|source|dest|both)
```

**ips**(running-actionsets-myactionset1) **threshold**
Set quarantine threshold value.

Syntax

```
threshold (2-10000) (1-60)
```

**ips**(running-actionsets-myactionset1) **verbosity**
Set packet trace verbosity.

Syntax

```
verbosity (partial|full)
```

**running-autodv Context Commands**

Immediate Commit Feature. Changes take effect immediately.

**ips**(running-autodv) **calendar**
Enter Calendar Style.

Syntax

```
calendar
```

**ips**(running-autodv) **delete**
Delete file or configuration item.

Syntax

```
delete proxy
delete proxy-password
delete proxy-username

ips{running-autodv}disable
Disable service.
Syntax
disable

ips{running-autodv}enable
Enable service.
Syntax
enable

ips{running-autodv}list
List Installed DVs.
Syntax
list

ips{running-autodv}periodic
Enter Periodic Style.
Syntax
periodic

ips{running-autodv}proxy
Configures a proxy server.
Syntax
proxy ADDR port PORT

ips{running-autodv}proxy-password
Sets a password for a proxy server.
Syntax
proxy-password PASSWD

ips{running-autodv}proxy-username
Sets a password for a proxy server.
Syntax
proxy-username USER
ips{running-autodv}update
Update AutoDV.
Syntax
update

running-autodv-periodic Context Commands
Immediate Commit Feature. Changes take effect immediately.

ips{running-autodv-periodic}day
Day of the week to update.
Syntax
day (Sunday|Monday|Tuesday|Wednesday|Thursday|Friday|Saturday)

ips{running-autodv-periodic}period
Set number of days between update checks.
Syntax
period PERIOD
PERIOD Value range is 0 - 99, unit is days

ips{running-autodv-periodic}time
Time of day to check for updates.
Syntax
time HOURS:MINUTES
HOURS Value range is 0 - 23
MINUTES Value range is 0 - 59

running-certificates Context Commands
Immediate Commit Feature. Changes take effect immediately.

ips{running-certificates}certificate
Add or update a device certificate with the certificate contents from your web server. To inspect secure sessions, the TPS requires both the certificate and private key from your web server.

(Best Practice) Name the certificate so that you can safely and reliably assign it to the correct SSL server.

When the keystore mode is sms-managed, use the SMS to manage device certificates and private keys.
Syntax
certificate CERTNAME
Related commands

<table>
<thead>
<tr>
<th>COMMAND</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ips{running-certificates}private-key</code></td>
<td>Import the private key from your web server into the local keystore on the TPS device.</td>
</tr>
<tr>
<td><code>ips{running-sslinsp}server</code></td>
<td>Add an SSL server to the TPS device with the same security settings as your web server, and assign the corresponding certificate and private key.</td>
</tr>
</tbody>
</table>

**ips{running-certificates}ca-certificate**

Add CA certificate.

Syntax

```
ca-certificate CANAME
```

**ips{running-certificates}delete**

Delete file or configuration item.

Syntax

```
delete ca-certificate (all|CANAME)
```

**ips{running-certificates}display**

Display file or configuration item.

Syntax

```
display ca-certificate CANAME [pem|text]
```

**ips{running-certificates}private-key**

Import a private key into the keystore on the device and assign it to the specified device certificate. Use the `save-config` command to secure the private key in the keystore.

To inspect secure sessions, the TPS requires both the certificate and private key from your web server.

When the keystore mode is **sms-managed**, this command is not applicable. Use the SMS to manage device certificates and private keys.

Syntax

```
private-key CERTNAME
```

**Related commands**

<table>
<thead>
<tr>
<th>COMMAND</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ips{running-certificates}certificate</code></td>
<td>Import the certificate from your web server into the local keystore on the TPS device.</td>
</tr>
<tr>
<td><code>ips{running-sslinsp}server</code></td>
<td>Add an SSL server to the TPS device with the same security settings as your web server, and assign the corresponding certificate and private key.</td>
</tr>
</tbody>
</table>
running-dns Context Commands

Immediate Commit Feature. Changes take effect immediately.

ips{running-dns}delete

Immediate Commit Feature. Changes take effect immediately. Delete file or configuration item. A secondary domain-search can only be deleted if no tertiary exists. A primary domain-search can only be deleted if no secondary exists.

Syntax

```
delete domain-name
delete domain-search (primary|secondary|tertiary|all)
delete name-server (all|A.B.C.D|X:X::X:X)
delete proxy cache cleaning interval
delete proxy cache forwarder (all|A.B.C.D|X:X::X:X)
delete proxy cache maximum negative ttl
delete proxy cache maximum ttl
delete proxy cache size
```

ips{running-dns}domain-name

Immediate Commit Feature. Changes take effect immediately. Configure domain name.

Syntax

```
domain-name NAME
```

ips{running-dns}domain-search

Immediate Commit Feature. Changes take effect immediately. Configure domain search. A secondary domain-search can only be entered after a primary is entered and a tertiary can only be entered after a secondary is entered.

Syntax

```
domain-search (primary|secondary|tertiary) NAME
```

ips{running-dns}name-server

Configure DNS server.

Syntax

```
name-server (A.B.C.D|X:X::X:X)
```

ips{running-dns}proxy

Configure proxy.

Syntax

```
proxy (enable|disable)
proxy cache cleaning interval cache cleaning interval in minutes
proxy cache forwarder A.B.C.D|X:X::X:X
proxy cache maximum negative ttl cache maximum negative ttl in minutes
proxy cache maximum ttl cache maximum ttl in minutes
proxy cache size cache size in megabytes
```
running-gen Context Commands
Immediate Commit Feature. Changes take effect immediately.

ips{running-gen}delete
Delete file or configuration item.
Syntax

```
delete host (NAME|all)
```

ips{running-gen}ephemeral-port-range
Set the range of the ephemeral port (default is 32768-61000).
Syntax

```
ephemeral-port-range (default|(LOWRANGE HIGHRANGE))
default Default port range value 32768-61000 is applied
LOWRANGE Value of the first port
HIGHRANGE Value of the last port
```

ips{running-gen}host
Configure static address to host name association.
Syntax

```
host NAME (A.B.C.D|X:X::X:X)
```

ips{running-gen}https
Disable and enable HTTPS access on the TPS management port. By default, HTTPS access is enabled to allow access to the device through the LSM, and to enable the Security Management System (SMS) to manage the device.
Note that this command does not disable SSH access on the TPS management port. See `ips{running-gen}ssh` for more information.
Syntax

```
https (enable|disable)
```

ips{running-gen}lsm
Disable and enable the LSM.
Syntax

```
lsm (enable|disable)
```

ips{running-gen}sms-allowed-ip
Configure allowed SMS IP addresses.
Syntax

```
sms-allowed-ip A.B.C.D (IPv4 address)
sms-allowed-ip A.B.C.D/M (IPv4 address with netmask)
sms-allowed-ip X:X::X:X (IPv6 address)
```
sms-allowed-ip X:X::X:X/M (IPv6 address with prefix length)
sms-allowed-ip all (All SMS IP addresses are allowed)

**ips(*/running-gen*)**ssh

Disable and enable SSH access on the TPS management port. By default, SSH access is enabled to allow CLI access to the device.

When the SSH connection to a remote syslog breaks, the device automatically attempts to reconnect three times over the course of a minute (once every 20 seconds for one minute). Each failed attempt is logged locally, and if the connection is still broken after one minute, the device stops attempting to reconnect.

If the automatic attempts to reconnect fail, you must manually bring back up the SSH connection by disabling and then re-enabling the "Remote System Log" configuration. Any data that was queued before the connection was lost gets sent after the connection is re-established. All data is sent in real time.

Note that this command does not disable HTTPS access on the TPS management port. See `ips(*/running-gen*)https` for more information.

**Syntax**

```
ssh (enable|disable)
```

*Learn more* about SSH configuration.

**ips(*/running-gen*)timezone**

Display or configure time zone.

---

**Note**

Use the `US` option to specify a standard time zone in the United States.

**Syntax**

```
timezone GMT
timezone REGION CITY
REGION
   (Africa|America|Antarctica|Arctic|Asia|Atlantic|
  Australia|Europe|Indian|US|Pacific)
```

**ips(*/running-gen*)tls**

Enable or disable TLS versions on the management interface.

Disable older TLS versions to secure the management interface. When deciding which TLS versions to disable, keep in mind that the LSM, SMS, and Captive Portal communicate through the device’s management interface.

**Syntax**

```
tls (TLSv1.0 |TLSv1.1 |TLSv1.2 )(enable|disable)
```

**running-high-availability Context Commands**

Create or enter a high-availability context.

**ips(*/running-high-availability*)disable**

Disables HA.
Syntax

**disable**

disable

**ips{running-high-availability}enable**

Enables high-availability on the local device.

**Syntax**

enable

**ips{running-high-availability}encryption**

Applies encryption hash for a passphrase.

**Syntax**

encryption (passphrase PASSPHRASE)|enable|disable

**ips{running-high-availability}partner**

Specifies the HA partner.

For 440T and 2200T devices that use the HA port, enter the partner device serial number. For 8200TX and 8400TX devices that use the MGMT port, enter the partner device MGMT port IP address.

**Syntax**

HA port:

partner SERIAL

MGMT port:

partner IP ADDRESS

### running-inspection-bypass Context Commands

Enables, disables, or removes inspection bypass rules. Inspection bypass rules direct traffic through the TippingPoint TPS devices without inspection. You can view a list of current inspection bypass rules with the `display` command.

---

**Important**

When creating an inspection bypass rule that includes source and destination ports or IP addresses, you must first specify the IP protocol as UDP or TCP.

---

You can now define up to 32 inspection bypass rules on a TippingPoint TPS. Rule configurations that bypass IPv6 traffic or VLAN ranges require additional hardware resources. For example, a single inspection bypass rule for IPv6 or VLAN traffic can result in multiple port-VLAN rule combinations.

<table>
<thead>
<tr>
<th>Inspection Bypass Rule</th>
<th>Resulting Number of Port-VLAN Rule Combinations</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPv4 traffic on TCP 1556 with untagged traffic or a particular VLAN ID</td>
<td>1</td>
</tr>
<tr>
<td>IPv6 traffic on TCP 1556 with untagged traffic or a particular VLAN ID</td>
<td>2</td>
</tr>
</tbody>
</table>
Each TPS supports a maximum number of port-VLAN rule combinations. If the number of configured port-VLAN rule combinations exceeds the maximum threshold for the device, you cannot commit the changes.

<table>
<thead>
<tr>
<th>For a</th>
<th>Maximum (approximate) number of port-VLAN rule combinations</th>
</tr>
</thead>
<tbody>
<tr>
<td>440T</td>
<td>256 when bypassing IPv4</td>
</tr>
<tr>
<td></td>
<td>128 when bypassing IPv6 traffic</td>
</tr>
<tr>
<td>2200T</td>
<td>2560 when bypassing IPv4 traffic</td>
</tr>
<tr>
<td></td>
<td>1280 when bypassing IPv6 traffic</td>
</tr>
<tr>
<td>8200TX</td>
<td>512 when bypassing IPv4 or IPv6 traffic</td>
</tr>
<tr>
<td>8400TX</td>
<td>512 when bypassing IPv4 or IPv6 traffic</td>
</tr>
</tbody>
</table>

Syntax

Type `help` and press Enter for more information.

```plaintext
ips{running-inspection-bypass}help
Valid commands are:
  delete RULENAME
  help [full|COMMAND]
  rule NEWRULENAME
  rule RULENAME
```

When you edit or create an inspection bypass rule, the context changes to that rule.

From the context of an inspection bypass rule, type `help` and press Enter for a list of commands, or type `help command` for help on a particular command.

```plaintext
ips{running-inspection-bypass-rule-myrule1}action
```

Specify which action the rule applies to the traffic.

Syntax

```plaintext
ips{running-inspection-bypass-rule-myrule1}action <action> [PORTNAME]
```

**Note**

Redirect and Mirror options are not supported for inspection bypass when there are no target ports available.

To block incoming traffic:

```plaintext
ips{running-inspection-bypass-rule-myrule1}action block
```

To copy traffic entering the port and send it to segment port 5B before the traffic gets inspected:

```plaintext
ips{running-inspection-bypass-rule-myrule1}action ingress-mirror 5B
```
ips{running-inspection-bypass-rule-myrule1}eth

Specifies the Ethernet Type that you do not want to inspect. When you define an inspection bypass rule, an option without a specified value defaults to a value of “any”. For example, if you do not specify a value for **eth**, it defaults to a value of any Ethernet Type.

Enter **help eth** and press Enter to display options for specifying an EtherType. Note that a value of **ip** specifies both IPv4 and IPv6.

**Note**

A full list of Ethernet Type values can be found at the Internet Assigned Numbers Authority [website](http://www.iana.org). When specifying an Ethernet Type as a hexadecimal value, prepend 0x, for example, 0x0806 for ARP.

ips{running-inspection-bypass-rule-myrule1}ip-proto

Specifies the IP protocols that you do not want to inspect. When you define an inspection bypass rule, an option without a specified value defaults to a value of “any”. For example, if you do not specify a value for **ip-proto**, it defaults to a value of any IP protocol.

If you change the IP protocol to a protocol other than TCP or UDP, the corresponding TCP or UDP ports are automatically removed. Edit an inspection bypass rule and enter **ip-proto udp** to not inspect UDP traffic.

**Note**

A full list of IP protocol values can be found at the Internet Assigned Numbers Authority website at [http://www.iana.org/assignments/protocol-numbers](http://www.iana.org/assignments/protocol-numbers).

Syntax

Enter **help ip-proto** and press Enter to display options for specifying an IP protocol.

```
ips{running-inspection-bypass-rule-myrule1}help ip-proto
Enter ip protocol for inspection bypass rule
Syntax: ip-proto PROTO_OPTION|PROTO_VALUE
    ip-proto       Enter ip protocol for inspection bypass rule
    PROTO_OPTION   Enter ip protocol (udp or tcp) for inspection bypass rule
    Possible values for PROTO_OPTION are:
    udp            udp protocol
    tcp            tcp protocol
    PROTO_VALUE    Enter ip protocol value (e.g. 115 for L2TP)
```

ips{running-inspection-bypass-rule-myrule1}vlan-id

Specifies the VLAN traffic that you do not want to inspect. When you define an inspection bypass rule, an option without a specified value defaults to a value of “any”. For example, if you do not specify a value for **vlan-id**, it defaults to all tagged and untagged traffic.

Syntax

Enter **help vlan-id** and press Enter to display options for specifying a range of VLAN IDs.

```
ips{running-inspection-bypass-rule-myrule1}help vlan-id
Valid commands are:
    vlan-id none
    vlan-id VLANID
    vlan-id range MINVLANID MAXVLANID
```
Edit an inspection bypass rule and enter `vlan-id none` to not inspect untagged VLAN traffic. Then, type `display` and press Enter to view your change.

**running-interface Context Commands**

Create or enter an interface context.

**ips{running}interface nM**

Enters context for configuring Ethernet settings. The port name, for example, 1A, is case-sensitive.

**Syntax**

```
interface nM
Valid entries at this position are:
  delete               Delete file or configuration item
  help                 Display help information
  physical-media      Configure ethernet port settings
  restart             Restart Ethernet port
  shutdown            Shutdown logical interface state
```

**ips{running}interface mgmt**

Enters context for configuring management settings.

**Syntax**

```
interface mgmt
Valid entries at this position are:
  delete               Delete file or configuration item
  description          Enter description for the management interface
  help                 Display help information
  host                 Configure host name, location, or contact
  ip-filter            Limit which ip addresses can access mgmt port
  ipaddress            Configure IP address
  physical-media      Configure mgmt port speed/duplex
  route                Add IPv4/IPv6 static route
```

**running-ips Context Commands**

Immediate Commit Feature. Changes take effect immediately.

**ips{running-ips}afc-mode**

Configures AFC mode.

**Syntax**

```
afc-mode AFCMODE
```

**ips{running-ips}afc-severity**

Configures AFC severity level.

**Syntax**

```
afc-severity SEVERITY
```
ips{running-ips}asymmetric-network
Configures asymmetric network mode.

Syntax

```
asymmetric-network enable | disable
```

ips{running-ips}connection-table
Configures connection table timeout.

Syntax

```
connection-table TIMEOUTTYPE SECONDS
```

<table>
<thead>
<tr>
<th>TIMEOUTTYPE</th>
<th>Connection table timeout type</th>
</tr>
</thead>
<tbody>
<tr>
<td>non-tcp-timeout</td>
<td>Connection table non-tcp timeout</td>
</tr>
<tr>
<td>timeout</td>
<td>Connection table timeout</td>
</tr>
<tr>
<td>trust-timeout</td>
<td>Connection table trust timeout</td>
</tr>
</tbody>
</table>

| SECONDS             | Connection table timeout seconds |

ips{running-ips}delete
Allows you to delete a profile.

Syntax

```
delete profile XPROFILENAME
```

ips{running-ips}deployment-choices
Lists deployment choices.

Syntax

```
deployment (Aggressive|Core|Default|Edge|Perimeter)
```

ips{running-ips}display
Display all IPS configuration and profiles.

Syntax

```
display
```

ips{running-ips}display-categoryrules
Display category rules for all profiles.

Syntax

```
display-categoryrules
```

ips{running-ips}gzip-decompression
Sets GZIP decompression mode.

Syntax
gzip-decompression (enable|disable)

ips{running-ips}http-encoded-resp
Configures inspection of encoded HTTP responses.
Syntax
```plaintext
http-encoded-resp (accelerated|inspect url-ncr STATUS)|ignore
accelerated   Accelerated inspection of encoded HTTP responses
ignore        Ignore encoded HTTP responses
inspect       Inspect encoded HTTP responses
```

ips{running-ips}http-mode
Configures HTTP mode, which allows all TCP ports to be treated as HTTP ports for inspection purposes. If a flow does not have HTTP traffic, HTTP processing stops so that optimum performance is maintained.
Syntax
```plaintext
http-mode enable | disable
```

ips{running-ips}profile
Allows you to create or enter an IPS profile and configure whether the True-Client-IP address and additional HTTP context information are collected for the profile.
Syntax
```plaintext
profile PROFILENAME client-ip [enable|disable] http-context [enable|disable]
```

ips{running-ips}quarantine-duration
Sets quarantine duration.
Syntax
```plaintext
quarantine-duration DURATION
DURATION value between 1 to 1440 minutes
```

ips{running-ips}rename
Renames a profile.
Syntax
```plaintext
rename profile PROFILENAME NEWPROFILENAME
```

running-ips-X Context Commands
Immediate Commit Feature. Changes take effect immediately.

ips{running-ips-1}categoryrule
Enters categoryrule context.
Syntax
```plaintext
categoryrule
```
**running-log Context Commands**

Create or enter a running-log context.

**ips{running-log}delete**

Delete file or configuration item.

Syntax

```
delete log audit CONTACT-NAME
delete log quarantine CONTACT-NAME
delete log system CONTACT-NAME
delete log-option xmsd( all)|( LOG_OPTION)
delete logging-mode
help [full|COMMAND]
log audit CONTACT-NAME [ALL|none]
log quarantine CONTACT-NAME [ALL|none]
log system CONTACT-NAME [SEVERITY]
log-option xmsd( all)|( LOG_OPTION)
logging-mode unconditional|(conditional [threshold PERCENTAGE] [period TIMEOUT])
sub-system SUBSYSTEM [SEVERITY]
```

**ips{running-log}log**

Add log to a log session.

Syntax

```
log audit CONTACT-NAME [ALL|none]
log quarantine CONTACT-NAME [ALL|none]
log system CONTACT-NAME [SEVERITY]
Valid entries at this position are:
<Enter> Execute command
audit Configure log for audit services
```
quarantine Configure log for quarantine services
system Configure log for all services

ips{running-log}log-option
Add service log option.

Syntax

log-option xmsd( all)\{| LOG_OPTION) log-option Add service log option
xmsd Configure xmsd log options
all Enable logging all options
LOG_OPTION Log-option item for XMSD
Possible values for LOG_OPTION are:
segments Enable logging segments
mgmt Enable logging mgmt
interface Enable logging interface
xms_config Configure xms config
xms_process Enable logging xms process
xms_stream Enable logging xms stream
aaa Enable logging aaa
dns Enable logging dns
ethernet Enable logging ethernet
highavailability Enable logging highavailability
linkmonitor Enable logging linkmonitor
log Enable logging log
ntp Enable logging ntp
ports Enable logging ports
services Enable logging services
udm-conf-handler Enable logging UDM configuration handler
snmp Enable logging snmp
system Enable logging system
qos Enable logging qos
virtual-segments Enable logging virtual-segments
xmsupdate Enable logging xmsupdate
vrf Enable logging vrf
x509 Enable logging x509
xipc Enable logging xipc requests
trafficlights Enable logging trafficlights requests
vlan-translations Enable logging vlan-translations

ips{running-log}logging-mode
Configure logging behavior when the system is congested.

Syntax

logging-mode unconditional\{|conditional [threshold PERCENTAGE] [period TIMEOUT])
logging-mode Configure logging behavior when the system is congested
unconditional Always log even if traffic is dropped under high load
conditional Disable logging if needed to prevent congestion (default)
threshold Congestion threshold at which to disable logging (default: 1.0%)
PERCENTAGE Congestion percentage (0.1% to 99.9%)
period Amount of time to disable logging (default: 600 seconds)
TIMEOUT Log disable time in seconds (60 to 3600)
ips{running-log}sub-system
Sets sub-system log level.

Syntax

```
sub-system SUBSYSTEM [SEVERITY]
sub-system (COROSYNC|HTTPD|INIT|LOGIN|TOS|XMS|CRMADMIN)
    [alert|critical|debug|emergency|error|info|notice|warning|none]
```
Possible values for SEVERITY are:
emergency Panic condition messages (TOS critical)
alert Immediate problem condition messages
critical Critical condition messages
error Error messages
warning Warning messages
notice Special condition messages
info Informational messages
debug Debug messages
debug0 TOS Debug0 messages
debug1 TOS Debug1 messages
debug2 TOS Debug2 messages
debug3 TOS Debug3 messages
none Turn off messages

running-notifycontacts (email) Context Commands
Immediate Commit Feature. Changes take effect immediately.

ips{running-notifycontacts}contact
Create or edit a notify contact.

Syntax

```
contact CONTACTNAME
contact NEWNAME email
contact NEWNAME snmp COMMUNITY IP [PORT]
```

ips{running-notifycontacts}delete
Delete a contact or an email setting.

Syntax

```
delete contact XCONTACTNAME
    delete EMAILSETTING
```

ips{running-notifycontacts}email-from-address
From email address.

Syntax

```
email-from-address EMAIL
```

ips{running-notifycontacts}email-from-domain
From domain name.

Syntax
email-from-domain DOMAIN

ips{running-notifycontacts}email-server
Set mail server IP.
Syntax
email-server IP

ips{running-notifycontacts}email-threshold
Set email threshold per minute
Syntax
email-threshold THRESHOLD
_THRESHOLD_ Threshold-value, value range 1-35 per minute

ips{running-notifycontacts}email-to-default-address
Default to email address.
Syntax
e-mail-to-default-address EMAIL

ips{running-notifycontacts}rename
Rename contact with new name.
Syntax
rename contact XCONTACTNAME NEWNAME

running-ntp Context Commands
Immediate Commit Feature. Changes take effect immediately.

ips{running-ntp}delete
Delete file or configuration item.
Syntax
delete key (all|ID)
delete server (all|HOST)
Valid entries:
key Delete key from configuration
all Delete all keys
ID Key identifier
server Delete remote NTP server
all Delete all servers
HOST Remote server address or name

ips{running-ntp}key
Configure NTP authentication key.
Syntax
key (1-65535) VALUE
Valid entries:
(1-65535) Key ID, required for authentication
VALUE Key value (1-32 characters)

ips(running-ntp)ntp
Enable or disable NTP service.

Syntax

ntp (enable|disable)

ips(running-ntp)polling-interval
Configure NTP server minimum polling interval.

Syntax

polling-interval SECONDS
SECONDS Interval in seconds
Possible values for SECONDS are:
 2 2 seconds
 4 4 seconds
 8 8 seconds
16 16 seconds
32 32 seconds
64 64 seconds

ips(running-ntp)server
Configure remote NTP server.

Syntax

server (dhcp|A.B.C.D|X::X:X|FQDN) [key ID] [prefer]
dhcp Get server address from dhcp
NAME NTP remote server
key Key to be used
ID Key identifier
prefer Mark server as preferred

running-rep Context Commands
Immediate Commit Feature. Changes take effect immediately.

ips(running-rep)delete
Delete file or configuration item.

Syntax

delete group USERGROUP
delete profile XPROFILENAME
Valid entries:
group Reputation group
profile Delete reputation profile
ips{running-rep}group
Create or enter reputation group context.

Syntax

```text
group USERGROUP
Valid entries:
USERGROUP Reputation usergroup name
```

ips{running-rep}nxdomain-response
Responds with NXDOMAIN (name does not exist) to clients that make DNS requests for hosts that are blocked.

Syntax

```text
nxdomain-response (enable|disable)
```

ips{running-rep}profile
Create or enter reputation profile context.

Syntax

```text
profile PROFILENAME
```

ips{running-rep}rename
Rename a reputation profile or group.

Syntax

```text
rename group USERGROUP NEWUSERGROUP
rename profile XPROFILENAME NEWPROFILENAME
Valid entries:
group Reputation group
profile Reputation profile
```

running-rep-X (group X) Context Commands
Immediate Commit Feature. Changes take effect immediately.

ips{running-rep-1}delete
Delete file or configuration item.

Syntax

```text
delete domain DOMAINNAME
delete ip (A.B.C.D|A.B.C.D/M|X::X:X|X::X:X/M)
Valid entries:
domain Domain name
ip IP address IPv4/IPv6/CIDR
```

ips{running-rep-1}description
Add a description to the reputation group.

Syntax
description DESCRIPTION

ips{running-rep-1}domain
New domain name.
Syntax
domain NEWDOMAIN

ips{running-rep-1}ip
Syntax
ip IPADDRESS

running-rep-X (profile X) Context Commands
Immediate Commit Feature. Changes take effect immediately.

ips{running-rep-abc}action-when-pending
Set pending action to permit or drop.
Syntax
action-when-pending (permit|drop)

ips{running-rep-abc}check-destination-address
Enables or disables check destination address.
Syntax
check-destination-address (enable|disable)

ips{running-rep-abc}check-source-address
Enables or disables check source address.
Syntax
check-source-address (enable|disable)
Valid entries:
enable  Enable check source address
disable Disable check source address

ips{running-rep-abc}delete
Delete file or configuration item.
Syntax
delete dns-except DOMAINNAME
delete filter REPGROUP
delete ip-except (A.B.C.D|A.B.C.D/M|X:X::X:X|X:X::X:X/M)
(A.B.C.D|A.B.C.D/M|X:X::X:X|X:X::X:X/M)
ips{running-rep-abc}dns-except
DNS domain exception.

Syntax

dns-except DOMAINNAME

ips{running-rep-abc}filter
Add a reputation filter rule.

Syntax

filter ALLGROUPNAME(enable [threshold [XACTIONSETNAME]]))|(disable)

Valid entries:
enable Enable filter rule
THRESHOLD Set threshold (0-100)
XACTIONSETNAME Apply action set name
disable Disable filter rule

ips{running-rep-abc}ip-except
Add IP address exception.

Syntax

ip-except SOURCEIP DESTINATIONIP
SOURCEIP A.B.C.D or A.B.C.D/M or X:X::X:X or X:X::X:X/M
DESTINATIONIP A.B.C.D or A.B.C.D/M or X:X::X:X or X:X::X:X/M

security-policy-reset
Resets the IPS security policy to the default values.

Syntax

security-policy-reset

running-segments-segmentX Context Commands
Immediate Commit Feature. Changes take effect immediately.

ips{running-segments-segment0}description
Apply segment description.

Syntax

description TEXT

ips{running-segments-segment0}display
Display a segment configuration.

Syntax

display
ips{running-segments-segment0}high-availability
Intrinsic HA Layer 2 Fallback action block or permit.

Syntax

high-availability (block|permit)
block  Enable block all
permit Enable permit all

ips{running-segments-segment0}link-down
Link down synchronization mode.

Syntax

link-down breaker [wait-time WAIT-TIME]
link-down hub
link-down wire [wait-time WAIT-TIME]
Valid entries:
breaker     Enable breaker action
hub         Enable hub action
wire        Enable wire action
WAIT-TIME   Time to wait before synchronizing in seconds

ips{running-segments-segment0}restart
Restart both ethernet ports of segment.

Syntax

restart

ips{running-segments-segment0}sflow
Configure sFlow packet export.

Syntax

sflow enable sample-rate [SAMPLE-RATE]|disable

running-services Context Commands
Immediate Commit Feature. Changes take effect immediately.

Syntax

ips{}edit
ips{running}services
Entering Immediate Commit Feature. Changes take effect immediately.
ips{running-services}
Valid entries at this position are:
display     Display all services
help        Display help information
service     Edit a service
ips{running-services}help service
Edit a service
Syntax: service SERVICE
        service Edit a service
        SERVICE Service name
ips{running-services}service portmapper
ips{running-services-portmapper}
Valid entries at this position are:
- delete               Delete file or configuration item
- display              Display service configuration
- help                 Display help information
- port                 Add port(s) to service

ips{running-services-portmapper}display
# DEFAULT ENTRIES
port tcp 111
port tcp 32770 to 32779
port udp 111
port udp 32770 to 32779
exit
ips{running-services-portmapper}help port
Add port(s) to service
Syntax: port tcp PORT [to LAST-PORT]
port udp PORT [to LAST-PORT]
port        Add port(s) to service
tcp         TCP
PORT        Port number
to          Enter range of ports
LAST-PORT   Last port of range
udp         UDP

ips{running-services-portmapper}help delete port
Delete port(s) from service
Syntax: delete port tcp PORT [to LAST-PORT]
delete port udp PORT [to LAST-PORT]
delete      Delete file or configuration item
port        Delete port(s) from service
tcp         TCP
PORT        Port number
to          Enter range of ports
LAST-PORT   Last port of range
udp         UDP

Notes
- You cannot create new services.
- You cannot delete services.
- You cannot delete the set of default ports assigned to services.
- You can add additional ports to a service.
- You can delete user-added ports from a service.
- TCP or UDP option is available depending on the service (some services are TCP only).

ips{running-services}display
Display service(s).

Syntax

display service (all|SERVICENAME)
ips(service)

Edit a service.

Syntax

```
service SERVICENAME
```

running-services-X Context Commands

Immediate Commit Feature. Changes take effect immediately.

ips(delete)

Delete service parameters.

Syntax

```
delete icmp (all|NAME|NUMBER)
delete icmpv6 (all|NAME|NUMBER)
delete port tcp PORT [to LASTPORT]
delete port udp PORT [to LASTPORT]
delete port tcp all
(delete port udp all
delete protocol (all|PROTONUM)
delete service (all|SERVICENAME)
Valid entries:
icmp Delete ICMPv4
icmpv6 Delete ICMPv6
port Delete port(s)
protocol Delete packet protocol number(s)
service Delete member service
```

ips(port)

Apply TCP or UDP port number.

Syntax

```
port tcp PORT [to LASTPORT]
port udp PORT [to LASTPORT]
Valid entries:
tcp Apply TCP
PORT Apply port number
to Set port range to
LAST-PORT Apply last port of range
udp Apply UDP
```

running-snmp Context Commands

Immediate Commit Feature. Changes take effect immediately.

ips(authtrap)

Enable or disable SNMP authentication failure trap.

Syntax

```
authtrap (enable|disable)
```
ips{running-snmp}community
Configure SNMP read-only community.

Syntax

```
community COMMUNITY [SOURCE]
COMMUNITY   Text to identify SNMP system community
SOURCE      IP (A.B.C.D|X:X::X:X), subnet (A.B.C.D/M|X:X::X:X/M), or "default"
default      allow any IPv4/6 source
```

ips{running-snmp}delete
Delete file or configuration item.

Syntax

```
delete community (COMMUNITY|all)
delete trapsession ((A.B.C.D|X:X::X:X|FQDN) ver VERSION)|all)
delete username (USERNAME|all)
Valid entries:
  community    Delete SNMP read-only community
  trapsession  Delete a configured trap session
  username     Delete a configured user
```

ips{running-snmp}engineID
Configure SNMPv3 engine ID.

Syntax

```
engineID ENGINE-ID
ENGINE-ID SNMPv3 Engine ID (1-32 hex octets, ex: 0x800012ef0302a11aab33f4)
```

ips{running-snmp}snmp
Enable or disable SNMP.

Syntax

```
snmp (enable|disable)
```

ips{running-snmp}trapdest
Configure SNMP v2c or v3 trap destinations.

Syntax

```
trapdest HOST [port PORT] ver 2c COMMUNITY [inform]
trapdest HOST [port PORT] ver 3 USERNAME [inform]
trapdest HOST [port PORT] ver 3 USERNAME authtype AUTHTYPE AUTHPASS [inform]
trapdest HOST [port PORT] ver 3 USERNAME authtype AUTHTYPE AUTHPASS privproto
```

Valid entries:

```
HOST        IP address or DNS host name
port        Configure SNMP port
PORT        SNMP port (default 162)
ver         Configure SNMP version (2c, or 3)
2c          SNMPv2c
COMMUNITY   Text to identify SNMP system community
inform      Send information message instead of a trap
```
SNMPv3
USERNAME Text to identify USM user name (for authentication/privacy)
level Configure security level (noAuthNoPriv|authNoPriv|authPriv)
noAuthNoPriv No authentication, no privacy
authNoPriv Authentication, no privacy
authtype Configure authentication type (MD5|SHA)
AUTHTYPE Authentication type
  Possible values for AUTHTYPE are:
  MD5 Message Digest 5
  SHA Secure Hash Algorithm
AUTHPASS Authentication passphrase - must be at least 8 characters
authPriv Authentication and privacy
privproto Configure privacy protocol (DES|AES)
PRIVPROTO Privacy protocol
  Possible values for PRIVPROTO are:
  DES Data Encryption Security
  AES Advanced Encryption Security
PRIVPASS Optional privacy passphrase - must be at least 8 characters

configure USM read-only user.

Syntax

username USERNAME
username USERNAME authtype AUTHTYPE AUTHPASS
username USERNAME authtype AUTHTYPE AUTHPASS privproto PRIVPROTO [PRIVPASS]

Valid entries:
USERNAME Text to identify USM user name (for authentication/privacy)
level Configure security level (noAuthNoPriv|authNoPriv|authPriv)
noAuthNoPriv No authentication, no privacy
authNoPriv Authentication, no privacy
authtype Configure authentication type (MD5|SHA)
AUTHTYPE Authentication type
  Possible values for AUTHTYPE are:
  MD5 Message Digest 5
  SHA Secure Hash Algorithm
AUTHPASS Authentication passphrase - must be at least 8 characters
authPriv Authentication and privacy
privproto Configure privacy protocol (DES|AES)
PRIVPROTO Privacy protocol
  Possible values for PRIVPROTO are:
  DES Data Encryption Security
  AES Advanced Encryption Security
PRIVPASS Optional privacy passphrase - must be at least 8 characters

running-sslinsp Context Commands

Use the ssl-insp context to specify the SSL sessions you want to inspect and to enable or disable SSL inspection.

Note
While SSL inspection is disabled, you can configure SSL inspection to specify the SSL sessions you want to inspect.
ips{running-sslinsp}

**ips{running-sslinsp}enable**

Use the **enable** command to begin inspecting SSL sessions based on the configuration you specify. While SSL inspection is disabled, you can configure SSL inspection, but no sessions are inspected.

To enable SSL inspection, the TPS device must be licensed for SSL inspection. Use the LSM to verify the SSL inspection license.

Syntax

```
ips{running-sslinsp} [enable|disable]
```

**ips{running-sslinsp}log sslInspection**

Use the **log sslInspection** command to save SSL inspection logging information to a particular notification contact. By default, the TPS device saves SSL inspection log information to the “Management Console” notification contact which is available for display from the LSM and is found in the `sslInspection.log` on the device.

**Important**

To generate SSL inspection log entries, enable logging on the SSL server for troubleshooting purposes only. By default, an SSL server does not generate logging information. See **ips{running-sslinsp}server**.

Syntax

```
log sslInspection CONTACT-NAME [ALL|none]
```

**ips{running-sslinsp}profile**

Add, edit, or delete an SSL inspection profile. An SSL inspection **profile** describes the encrypted traffic that you want to protect using one or more server policies. A **server policy** consists of an SSL server, and any source IP address exceptions. When you add or edit an SSL inspection profile, the CLI context changes to that profile. From the profile subcontext, view and change the default settings for that profile, for example, to add a server policy.

**Note**

To exit the edit configuration mode from any context, type the `!` command and press Enter.

When you create a new profile, you must add a policy named mypolicy to the profile and assign an SSL inspection server named mysslserver to the policy. The SSL server specifies the range of server IP addresses you want to protect along with your SSL server configuration details.

You can also update the policy to specify any source IP addresses that you do not want to inspect. Secure sessions between the server and the specified source IP addresses are not inspected.

Syntax

```
[delete] profile PROFILENAME
```

**Related commands**

<table>
<thead>
<tr>
<th>COMMAND</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ips{running-certificates}certificate</td>
<td>Import the certificate from your web server into the local keystore on the device.</td>
</tr>
</tbody>
</table>
ips{running-sslinsp}server

Add or edit an SSL server to specify the SSL server configuration you want the TippingPoint security device to proxy, including the SSL service. You must specify the type of secure traffic that is accepted on the SSL detection port. For example, if the server accepts POP3S traffic on port 2000, add an SSL server with a Detection Port of 2000 and a Decrypted Service of POP3. From the server subcontext, you can view and change the default settings for that server. When you finish, assign the SSL server to an SSL inspection profile. Enable logging on the SSL server for troubleshooting purposes only.

**Note**
To exit the edit configuration mode from any context, type the `!` command and press Enter.

By default, the IP address and device certificate for the server are not defined, and must be specified separately. Specify the **IP address** of your web server by entering up to 8 IPv4 addresses (separated by commas), or by specifying a CIDR range, such as 192.168.0.1/24. Specify the **device certificate** that the TPS device uses to decrypt and encrypt HTTP traffic across the specified range of server IP addresses. Make sure that the corresponding private key is assigned to the device certificate.

**Syntax**

```
[delete] server SERVERNAME
```

**Related commands**

<table>
<thead>
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<td><code>ips{running-certificates}certificate</code></td>
<td>Import the certificate from your web server into the local keystore on the device.</td>
</tr>
<tr>
<td><code>ips{running-certificates}private-key</code></td>
<td>Import the private key from your web server into the local keystore on the device.</td>
</tr>
<tr>
<td><code>ips{running-vsegs-VSEG_NAME}ssl-profile</code></td>
<td>Update the virtual segment to assign the SSL inspection profile.</td>
</tr>
<tr>
<td><code>ips{running-sslinsp}profile</code></td>
<td>Assign the SSL server to an SSL inspection profile.</td>
</tr>
</tbody>
</table>

**running-traffic-management Context Commands**

Immediate Commit Feature. Changes take effect immediately.

When you create a traffic profile and add traffic filters, more options become available.

`ips{running-trafmgmt}delete`
Delete a traffic-management profile.
Syntax

delete PROFILE

ips{running-trafmgmt}profile
Create or enter traffic-management profile context. When traffic filters are added to a profile, more options become available.

Syntax

profile NEWTRAFFPROFNAME
profile TRAFFPROFNAME

ips{running-trafmgmt}rename
Rename traffic-management profile.

Syntax

rename profile TRAFFPROFNAME NEWTRAFFPROFNAME

running-virtual-segments Context Commands
Physical segments have predefined virtual segments. CIDRs and profiles are applied to the virtual segment. Virtual segments enable further management of VLAN traffic. Use this context to define an individual virtual segment.

Syntax

ips{running}virtual-segments
ips{running-vsegs}?  
Valid entries at this position are:
delete Delete file or configuration item
help Display help information
rename Rename virtual-segment
virtual-segment Create or enter virtual-segment context
display Display file or configuration item

Notes

• A maximum of 64 virtual segments can be configured.
• Each virtual segment name must be unique.

ips{running-vsegs}delete virtual-segment
Delete a virtual-segment context. The position value for any higher virtual segments will be renumbered. Only user-created virtual segments can be deleted.

Syntax

delete virtual-segment VSEGNAME

ips{running-vsegs}display
Display file or configuration item.

Syntax

display {xml}
ips{running-vsegs}rename virtual-segment

Rename the virtual segment. Each virtual segment name must be unique.

Syntax

rename virtual-segment VSEGNAME NEWVSEGNAME

ips{running-vsegs}virtual-segment

Create or enter virtual-segment context.

Syntax

virtual-segment VSEGNAME
virtual-segment NEWVSEGNAME

running-virtual-segment Context Commands

Physical segments have predefined virtual segments. CIDRs and profiles are applied to the virtual segment. Virtual segments enable further management of VLAN traffic.

Syntax

ips{running-vsegs}virtual-segment segmentname
ips{running-vsegs-segmentname}?  
Valid entries at this position are:

- bind                Bind physical ports to virtual segment
- delete              Delete file or configuration item
- description         Update virtual segment description
- display             Display file or configuration item
- dst-address         Add destination address to a virtual segment
- help                Display help information
- ips-profile          Virtual segment ips profile
- move                Move virtual segment priority position
- reputation-profile  Virtual segment reputation profile
- src-address         Add source address to a virtual segment
- ssl-profile          Virtual segment SSL profile
- traffic-profile      Virtual segment traffic-management profile
- vlan-id             Add vlan id or range to virtual segment

Notes

- A maximum of 64 virtual segments can be configured.
- Each virtual segment name must be unique.
- You can configure up to 4094 VLAN IDs per virtual segment.
- Each VLAN ID in a range counts individually. For example, vlan-id range 1 5 counts as five IDs.
- A CIDR counts as a single address. For example, 192.168.1.0/24 counts as one address.
- At least one traffic criteria must be defined for each virtual segment. Traffic criteria can be VLAN IDs, src-addresses, and dst-addresses.
- If no physical ports are defined on a virtual segment, the virtual segment will apply to all physical ports.
- If no VLAN IDs are defined on a virtual segment, all VLAN IDs are included.
• If no source addresses are defined, all source addresses are included. If no destination addresses are defined, all destination addresses are included.

• Position values must remain contiguous across all defined virtual segments, so there should never be a gap in the sequence.

• Position values start with 1 and increment by one for each new virtual segment added. The highest possible position value that can be configured is 64.

ips{running-vsegs}bind

Bind physical ports to virtual-segment.

Syntax

bind in-port PHYSPORT out-port PHYSPORT

ips{running-vsegs}delete bind

Delete a port-pair association from this virtual segment.

Syntax

delete bind in-port EXISTING_PHYSPORT out-port EXISTING_PHYSPORT

ips{running-vsegs}description

Add or edit the description of a virtual segment.

Syntax

description TEXT

ips{running-vsegs}display

Display file or configuration item.

Syntax

display {xml}

ips{running-vsegs}dst-address

Associate an IPv4 or IPv6 destination address or subnet, in CIDR format, with this virtual segment.

Syntax

dst-address ABCD|ABCDM|XXXX|XXXXM

Host IP addresses will include the submasks. For example, entering 192.168.1.1 will display as 192.168.1.1/32. You can associate a maximum of 250 destination addresses.

ips{running-vsegs}delete dst-address

Delete an IPv4 or IPv6 destination address or subnet associated with this virtual segment.

Syntax

delete dst-address all|ABCD|ABCDM|XXXX|XXXXM

If the all keyword is specified, all destination addresses are deleted from this virtual segment. Otherwise, specify an address.
Host addresses are stored with a netmask of /32 or /128 for IPv4 or IPv6, respectively. Any address deletion requires that the netmask be supplied. For example, delete dst-address 192.168.1.1/32.

ips{running-vsegs-VSEG_NAME}ips-profile
Associate an existing IPS security profile with this virtual segment.

Syntax

```plaintext
ips-profile PROFILENAME
```

ips{running-vsegs-VSEG_NAME}delete ips-profile
Delete an existing IPS security profile associated with this virtual segment.

Syntax

```plaintext
delete ips-profile PROFILENAME
```

ips{running-vsegs-VSEG_NAME}reputation-profile
Associate an existing reputation profile with this virtual segment.

Syntax

```plaintext
reputation-profile PROFILENAME
```

ips{running-vsegs-VSEG_NAME}delete reputation-profile
Delete an existing reputation profile associated with this virtual segment.

Syntax

```plaintext
delete reputation-profile PROFILENAME
```

ips{running-vsegs-VSEG_NAME}ssl-profile
Edit the virtual segment to assign an SSL inspection profile.

Syntax

```plaintext
ssl-profile PROFILENAME
```

**Related commands**

<table>
<thead>
<tr>
<th>COMMAND</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ips{running-sslinsp}profile</td>
<td>Create an SSL-inspection profile.</td>
</tr>
</tbody>
</table>

ips{running-vsegs-VSEG_NAME}delete ssl-profile
Delete an existing SSL inspection profile associated with this virtual segment.

Syntax

```plaintext
delete ssl-profile PROFILENAME
```
ips{running-vsegs}move

Add or edit the description of a virtual segment.

Syntax

- move after VSEGNAME
- move before VSEGNAME
- move to position VALUE

Only user-created virtual segments can be moved.

Position values must remain contiguous across all defined virtual segments, so there should never be a gap in the sequence. Virtual segments in between the segment you are moving and the target may be renumbered. A virtual segment cannot be moved to a lower priority than a system-defined virtual segment.

VALUE must be an unsigned, non-zero integer number.

If VSEGNAME is the name of this virtual segment, the position value remains unchanged.

ips{running-vsegs}src-address

Associate an IPv4 or IPv6 source address or subnet, in CIDR format, with this virtual segment.

Syntax

- src-address ABCD|ABCDM|XXXX|XXXXM

Host IP addresses will include the submasks. For example, entering 192.168.1.1 will display as 192.168.1.1/32. You can associate a maximum of 250 source addresses.

ips{running-vsegs}delete src-address

Delete an IPv4 or IPv6 source address or subnet associated with this virtual segment.

Syntax

- delete src-address all|ABCD|ABCDM|XXXX|XXXXM

If the all keyword is specified, all source addresses are deleted from this virtual segment. Otherwise, specify an address.

**Note**

Host addresses are stored with a netmask of /32 or /128 for IPv4 or IPv6, respectively. Any address deletion requires that the netmask be supplied. For example, delete src-address 192.168.1.1/32.

ips{running-vsegs-vsegname}vlan-id

Associate a single VLAN ID or a range of consecutive VLAN IDs with this virtual-segment.

Syntax

- vlan-id VLANID_NUMBER
- vlan-id range MINADDR MAXADDR

This command can only be used after an individual virtual segment is defined.

Valid IDs can range from 1–4094. All 4094 VLAN IDs can be used.

ips{running-vsegs}delete vlan-id

Delete a single VLAN ID or a range of consecutive VLAN IDs associated with this virtual-segment.
Syntax

```plaintext
delete vlan-id all | EXISTING_VLANIDNUMBER
delete vlan-id range MINADDR MAXADDR
```

If the `all` keyword is specified, all VLAN IDs get deleted, including any VLAN ranges. Otherwise, specify the VLAN ID to be deleted.

**running-vlan-translations Context Commands**

Adds or removes a VLAN translation setting. Use the `auto-reverse` flag to automatically create a reverse VLAN translation.

**Syntax**

```plaintext
ips{running-vlan-translations}help
Valid commands are:
  add-translation PORT VLANIN VLANOUT [auto-reverse]
  delete-translation PORT VLANIN
  help [full|COMMAND]
```

**ips{running-vlan-translations}**

Adds or removes a VLAN translation setting. The IPS creates a separate VLAN translation rule for each port you want to translate. A maximum of 8000 VLAN translation rules can be defined on a 440T or 2200T TPS. If the number of VLAN translation rules you want to commit exceed the specified limit, the device does not commit your changes.

Use the `auto-reverse` flag to automatically create a reverse VLAN translation.

**Syntax**

```plaintext
add-translation <PORT> <incoming VLAN ID> <outgoing VLAN ID> [auto-reverse]
delete-translation <PORT> <incoming VLAN ID>
```