



Trend Micro™ TippingPoint™

Threat Protection System (TPS)

Command Line Interface Reference

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Chapter 1

Command Line Interface

In addition to 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 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 Trend Micro™ 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:

```
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:

```
ips{running-notifycontacts-Remote System Log}server SERVER PORT
```

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

```
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:

```
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:

```
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.



Note

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 on page 1-95](#) about enabling SSH.

CLI syntax

The CLI uses the following syntax:

SYNTAX CONVENTION	EXPLANATION
UPPERCASE	Uppercase represents a user-supplied value.
(x)	Parentheses indicate a required argument.
[x]	Brackets indicate an optional argument.
	A vertical bar indicates a logical OR among required and optional arguments.

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.

SHORTCUT	DESCRIPTION
ENTER	Runs the command.
TAB	Completes a partial command.
?	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.
!	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>
UP ARROW	Shows the previous command.
DOWN ARROW	Shows the next command.
Ctrl + P	Shows the previous command.
Ctrl + N	Shows the next command.
Ctrl + L	Clears the screen, does not clear history.
Ctrl + A	Returns to the start of the command you are typing.
Ctrl + E	Goes to the end of the command you are typing.
Ctrl + U	Cuts the whole line to a special clipboard.
Ctrl + K	Cuts everything after the cursor to a special clipboard.
Ctrl + Y	Pastes from the special clipboard used by Ctrl + U and Ctrl + K.

Hierarchical context

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

PROMPT	DESCRIPTION
<code>ips{}</code>	Displays the top-level root mode. This context is displayed when you first log in to the CLI.
<code>ips{<i>edit</i>}</code>	Enters the edit configuration mode.
<code>ips{<i>running</i>}</code>	Displays the configuration mode by changing the prompt to <i>running</i> . This indicates you will be making changes to the running configuration.
<code>ips{<i>running</i>}<i>display</i></code>	Views the current configuration and any changes.
<code>ips{<i>running</i>}<i>commit</i></code>	Commits changes to the running configuration.
<code>ips{<i>log-configure</i>}</code>	Enters the log-configure context to access the log configuration mode.
<code>ips{<i>log-configure</i>}</code>	Displays the log configuration mode.
<code>ips{<i>log-configure</i>}<i>help</i></code>	Displays list of valid commands and syntax usage .
<code>ips{<i>running</i>}<i>exit</i></code>	Leaves the current configuration mode.
<code>ips{<i>running</i>}!</code>	Leaves the configuration mode from any context and returns to the top-level root mode.

Help

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

COMMAND	DESCRIPTION
<code>help <i>or</i> ?</code>	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).
<code>help <i>commandname</i></code>	Displays syntax for a command.
<code><i>commandname</i>?</code>	Displays the options for a command. For example, <code>ping ?</code> .

COMMAND	DESCRIPTION
<i>string?</i>	Shows the commands or keywords that match the string. For example, <i>s?</i> .

Command modes

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

COMMAND MODE	DESCRIPTION/EXAMPLE
Root	When you first log in to the device, you enter the top of the hierarchy, the root mode. <i>ips{}</i>
Edit	Enters the edit mode. <i>ips{running}</i>
Log Configuration	Enters the log configuration mode. <i>ips{log-configure}</i>

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 hostname, type:

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

**Note**

A valid hostname consists only of alpha-numeric characters and hyphens, and cannot exceed 63 characters or have a hyphen at the beginning or end.

For a list of root commands and their usage see [Root commands on page 1-16](#).

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 on page 1-16](#).

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.

```
cls
```

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

COMMAND	DESCRIPTION
save-config on page 1-30	Copy the Running configuration to the Startup configuration.

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 on page 1-8](#).

```
ips{}
```

```
ips{}edit
```

```
ips{running}
```

Valid entries at this position are:

<code>aaa</code>	Configure users, roles, and remote authentication
<code>actionsets</code>	Enter action sets context
<code>autodv</code>	Enter autodv context
<code>certificates</code>	Enter certificates context
<code>debug</code>	Enter debug context
<code>dns</code>	Enter DNS context
<code>exit</code>	Exit edit context, see also <code>save-config</code>
<code>gen</code>	Timezone, ssh/https access, general settings
<code>help</code>	Display help information
<code>high-availability</code>	Enter high-availability context
<code>inspection-bypass</code>	Inspection bypass context
<code>interface</code>	Enter interface context
<code>ips</code>	Enter IPS profile context
<code>log</code>	Enter log context
<code>notifycontacts</code>	Enter notify contacts context
<code>ntp</code>	Enter NTP context
<code>reputation</code>	Enter Reputation context
<code>security-policy-reset</code>	Reset IPS security policy to default values
<code>segments</code>	Segments context
<code>services</code>	Enter services context

sflow	sFlow context
snmp	Enter SNMP context
ssl-inspection	Enter SSL inspection context
stacking	Enter Stacking context
traffic-management	Enter traffic-management profile context
virtual-segments	Enter virtual-segments context
vlan-translations	Enter vlan-translations context

```
ips{running}commit
```

```
ips{running}exit
```

```
ips{}
```

**Note**

With the exception of `debug management-interface select (TOS v6.0 and later)`, use debug commands only when you are instructed to do so by TippingPoint product support. You must have SuperUser permissions to use debug np commands.

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

With the exception of `debug management-interface select` (TOS v6.0 and later), use `debug` commands only when you are instructed to do so by TippingPoint product support. You must have SuperUser permissions to use `debug np` commands.

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, license throughput maximum seen values, adaptive filter configurations (AFCs), or packet traces.

Syntax

```
clear adaptive-filter [all|FILTERNUMBER]
```

```
clear connection-table (blocks|trusts)
```

```
clear log-file (audit|ipsAlert|ipsBlock|quarantine|  
reputationAlert|reputationBlock|sslInspection|system)
```

```
clear counter policy
```

```
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 throughput-utilization-max
```

```
clear np tier-stats
```

```
clear packet-traces
```

```
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 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
Valid entries at this position are:
  CTX          Context name
  interface    Enter interface context
```

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 on page 1-8](#).

```
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
dns	Enter DNS context
exit	Exit edit context, see also save-config
gen	Timezone, ssh/https access, general settings
help	Display help information
high-availability	Enter high-availability context
inspection-bypass	Inspection bypass context
interface	Enter interface context
ips	Enter IPS profile context
log	Enter log context
notifycontacts	Enter notify contacts context
ntp	Enter NTP context
reputation	Enter Reputation context
security-policy-reset	Reset IPS security policy to default values
segments	Segments context
services	Enter services context
sflow	sFlow context
snmp	Enter SNMP context
ssl-inspection	Enter SSL inspection context
stacking	Enter Stacking context
traffic-management	Enter traffic-management profile context
virtual-segments	Enter virtual-segments context
vlan-translations	Enter vlan-translations context

```
ips{running}commit
```

```
ips{running}exit
```

```
ips{}
```

**Note**

With the exception of `debug management-interface select` (TOS v6.0 and later), use debug commands only when you are instructed to do so by TippingPoint product support. You must have SuperUser permissions to use `debug np` commands.

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, this forced L2FB does **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 TippingPoint TXE Series and TX Series devices, 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 TXE Series or 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.

high-availability zero-power (bypass-ips|normal) (slot|all)

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

COMMAND	DESCRIPTION
<i>ips{running-certificates}private-key on page 1-88</i>	Import the private key from your web server into the local keystore on the device.
<i>ips{running-certificates}certificate on page 1-86</i>	Import the certificate from your web server into the local keystore on the device.
<i>ips{running-sslinsp}server on page 1-134</i>	Add an SSL server proxy to the device with the same security settings as your web server, and assign the corresponding certificate and private key.
<i>ips{running-sslinsp}client-proxy on page 1-131</i>	Add an SSL client proxy to the device with the same security settings and signing certificate of the web server that decrypts the client traffic it receives.

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.

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:X|HOSTNAME) [count INT] [maxhop INT] [from X: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 on page 1-47](#)

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 on page 1-48

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

COMMAND	DESCRIPTION
<i>commit on page 1-13</i>	Commit your pending changes to the Running configuration.

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))
```

```
set terminal (NAME|noterm|tpterm|vt100)
```

setup

Runs the setup wizard.

Syntax

```
setup
```

show

View current system configuration, status, and statistics.

COMMAND	DESCRIPTION
show aaa on page 1-35	Show AAA information.
show auxdv on page 1-35	Show the AuxDV package.
show date on page 1-35	Show the current router date and time.
show dns on page 1-35	Show Domain Name Service.
show filter on page 1-35	Show filter information.
show health on page 1-36	Show health information.

COMMAND	DESCRIPTION
show high-availability on page 1-36	Show high-availability status.
show interface on page 1-36	Show network interface.
show key on page 1-36	Show local server SSH key information.
show license on page 1-36	Show the license number and status.
show log-file on page 1-37	Show the log files.
show log-file boot on page 1-37	Show the boot file.
show mfg-info on page 1-44	Show manufacturing information.
show np congestionx on page 1-44	Shows network congestion breakdown.
show np diagx on page 1-44	Shows low level network processor counters.
show np engine on page 1-44	Show net processor statistics.
show np general statistics on page 1-45	Show general network processor information.
show np mcfilt-rule-stats on page 1-45	Show microfilter rules, number of flows, successful matches.
show np protocol-mix on page 1-46	Show network processor protocol-level statistics.
show np reassembly on page 1-46	Show network processor reassembly statistics.

COMMAND	DESCRIPTION
<i>show np regex show on page 1-46</i>	Displays network processor regular expression entries.
<i>show np regex show on page 1-46</i>	Shows network processor regular expression entries.
<i>show np rule-stats on page 1-46</i>	Show network processor rules, number of flows, successful matches.
<i>show np softlinx on page 1-46</i>	Show network processor softlinx statistics.
<i>show np stats show on page 1-47</i>	Shows network processor statistics.
<i>show np throughput-utilization on page 1-47</i>	Show current throughput usage in Kbps, the high water mark (maximum seen) value of the current throughput usage, and the licensed throughput.
<i>show np tier-stats on page 1-47</i>	Show network processor throughput and utilization for each tier.
<i>show ntp on page 1-47</i>	Show the current NTP settings.
<i>show quarantine-list on page 1-47</i>	Show quarantine list information.
<i>show reports on page 1-48</i>	Show status of data collection for reports.
<i>show service on page 1-48</i>	Show network service information.
<i>show sflow on page 1-48</i>	Show sFlow sampling configuration information.
<i>show sms on page 1-48</i>	Show status of SMS control.
<i>show snmp on page 1-48</i>	Show SNMP information.

COMMAND	DESCRIPTION
<i>show stacking on page 1-49</i>	Show stacking information.
<i>show system connections on page 1-50</i>	Show active socket information.
<i>show system processes on page 1-50</i>	Show system processes.
<i>show system queue-stats on page 1-51</i>	Show internal queue stats.
<i>show system statistics on page 1-51</i>	Show system-wide protocol-related statistics.
<i>show system usage on page 1-51</i>	Show system usage.
<i>show system virtual-memory on page 1-51</i>	Show system virtual memory.
<i>show system xms memory on page 1-52</i>	Show xms memory usage.
<i>show terminal on page 1-52</i>	Show terminal settings.
<i>show traffic-file on page 1-52</i>	Show network traffic from file.
<i>show tse on page 1-53</i>	Show threat suppression engine information.
<i>show user-disk on page 1-53</i>	Show user-disk statistics.
<i>show users on page 1-53</i>	Show users information.
<i>show version on page 1-53</i>	Show device version information.

COMMAND	DESCRIPTION
show virtual segments on page 1-54	Show virtual segment configuration.

show aaa

Syntax

```
show aaa capabilities USER
```

```
show aaa login-banner
```

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
- sslInspection

show log-file boot

Syntax

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

```
show log-file boot [search [<options>]{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 FILE_NAME [raw|tab|csv|rawcsv] [addUUID] [addIface] [rawIface]
[ASC|DESC](tail [COUNT]) [seqnum] [more]
show log-file FILE_NAME [raw|tab|csv|rawcsv] [addUUID] [addIface] [rawIface]
[ASC|DESC] [search( <options>){0,2} PATTERN] [start-time START] [end-time END]
[seqnum[ [begin BEGIN] [end END]]] [count COUNT] [more]
show log-file FILE_NAME [raw|tab|csv|rawcsv] [addUUID] [addIface] [rawIface]
[ASC|DESC] [search COLUMN cmp PATTERN( and|or COLUMN cmp PATTERN){0,32}]
```

```

    [start-time START] [end-time END] [seqnum[ [begin BEGIN] [end END]]] [count COUNT] [more]
show log-file FILE_NAME [raw|tab|csv|rawcsv] [addUUID] [addIface] [rawIface]
    follow [search( <options>){0,2} PATTERN] [seqnum] [more]
show log-file FILE_NAME [raw|tab|csv|rawcsv] [addUUID] [addIface] [rawIface]
    follow [search COLUMN cmp PATTERN( and|or COLUMN cmp PATTERN){0,32}] [seqnum] [more]
show log-file FILE_NAME stat
show log-file summary [verbose]
show log-file boot [tail [COUNT]] [more]
show log-file boot [search( <options>){0,2} PATTERN] [count COUNT] [more]

show          Show system status
log-file      Show log file information
FILE_NAME    Local log file name
raw          Show log in its 'raw' form.
tab          Show log without translating tabs to spaces.
csv          Show log in Comma Separated Value format.
rawcsv       Show log in Comma Separated Value without translating fields.
addUUID      Add actual UUID value to 'translated' value
addIface     Add actual interface name to 'translated' name
rawIface     Show actual interface names
ASC          Force file to be displayed in Ascending order (oldest to newest)
DESC         Force file to be displayed in Descending order (newest to oldest)
tail         Show most recent messages
COUNT       Count of lines to display
seqnum       Show sequence number of log messages
more         Enable paging of output (more)
search       Search log file
<options>    Search options
    Possible values for <options> are:
    case      Case sensitive search
    invert    Invert search
PATTERN      Pattern to search for (maximum length of 128 characters)
start-time   Starting timestamp
START        [YYYY-MM[-DD[ hh:mm:ss[.sss]]]]
end-time     Ending timestamp
END          [YYYY-MM[-DD[ hh:mm:ss[.sss]]]]
begin        Beginning seqnum
BEGIN        Begin sequence number
end          Ending seqnum
END          Ending sequence number
count        Limit lines returned (default of 500)
COLUMN       Column to search
    Possible values for COLUMN are:
    TIMESTAMP [timestamp] field of log entry
    HOST      [host] field of log entry
    VERSION   Log Version
    SSL-PROXY SSL Inspection proxy type
    SEVERITY  Severity level
    SSL-ACTION SSL action taken
    SSL-DETAILS SSL Details of action taken
    IN-IFACE  Incoming Interface name
    IN-SSL-VERSION Incoming SSL version

```



```

IN-CRYPTO-SUITE Incoming Crypto suite
OUT-IFACE      Outgoing Interface name
OUT-SSL-VERSION Outgoing SSL version
OUT-CRYPTO-SUITE Outgoing Crypto suite
POLICY-UUID   UUID of Policy
POLICY-UUID-TEXT translated text of Policy UUID
SIGNATURE-UUID Signature UUID
SIGNATURE-UUID-TEXT translated text of Signature UUID
PROTOCOL      Layer 3 protocol
SOURCE-IP     Source Address
SOURCE-PORT   Source Port
DESTINATION-IP Destination Address
DESTINATION-PORT Destination Port
HIT-COUNT     Number of events
VLAN          VLAN ID
PERIOD        Aggregation period
MESSAGE_PARAMS Contents of message params
TRACE-VER     Packet Trace version
BUCKET-ID     Packet Trace ID
SEQ-BEGIN     Packet Trace: Begin sequence
SEQ-END       Packet Trace: End sequence
QACTION       Quarantine Action
ACTION-TYPE   Action taken
ACTION-SET-UUID UUID of Action set
ACTION-SET-UUID-TEXT translated text of Action set UUID
RATE-LIMIT-RATE Rate limit in kbps
PROFILE-UUID  UUID of Profile
PROFILE-UUID-TEXT translated text of Profile UUID
SSL-POLICY-UUID SSL Inspection Policy UUID
SSL-POLICY-UUID-TEXT translated text of SSL Inspection Policy UUID
CERTIFICATE-NAME SSL Certificate name
DOMAIN        Domain name or URL
VIRTUAL-SEGMENT-UUID UUID of Virtual Segment
VIRTUAL-SEGMENT-UUID-TEXT translated text of Virtual Segment UUID
CLIENT-IP     Client IP address
SSL-FLAG      Entry occurred on an SSL decrypted stream
ACCESS        Access-level of user
TYPE          Interface used (WEB, CLI, SYS, SMS)
ADDRESS       IP address user
CAT           Area in action was performed
RESULT        Result of action
USER          Login name of user
MESSAGE       Audit message
SERVICE-SEVERITY [service]-[severity] field of log entry
LOG-SERVICE   Service portion of SERVICE-SEVERITY
LOG-SEVERITY  Severity portion of SERVICE-SEVERITY
MESSAGE       Message portion of log entry
TAG           [tag:] portion of MESSAGE field
LOG-ENTRY     Entire log entry
cmp           How to compare
Possible values for cmp are:

```

```
=          Equals (case insensitive)
!=         Not equals (case insensitive)
==         Equals (case sensitive)
!==        Not equals (case sensitive)
and|or     and/or column searches
follow     Output appended as log file grows
stat       Show begin seqnum, end seqnum, and number of messages for a log file
summary    Show summary of all log files
verbose    Show extra columns in summary
boot       Boot log information

show log-file audit ?
Valid entries at this position are:
<Enter>    Execute command
ASC        Force file to be displayed in Ascending order (oldest to newest)
DESC       Force file to be displayed in Descending order (newest to oldest)
count      Limit lines returned (default of 500)
csv        Show log in Comma Separated Value format.
end-time   Ending timestamp
follow     Output appended as log file grows
more       Enable paging of output (more)
raw        Show log in its 'raw' form.
rawcsv     Show log in Comma Separated Value without translating fields.
search     Search log file
seqnum     Show sequence number of log messages
start-time Starting timestamp
stat       Show begin seqnum, end seqnum, and number of messages for a log file
tab        Show log without translating tabs to spaces.
tail       Show most recent messages

show log-file ipsAlert ?
Valid entries at this position are:
<Enter>    Execute command
ASC        Force file to be displayed in Ascending order (oldest to newest)
DESC       Force file to be displayed in Descending order (newest to oldest)
addIface   Add actual interface name to 'translated' name
addUUID    Add actual UUID value to 'translated' value
count      Limit lines returned (default of 500)
csv        Show log in Comma Separated Value format.
end-time   Ending timestamp
follow     Output appended as log file grows
more       Enable paging of output (more)
raw        Show log in its 'raw' form.
rawIface   Show actual interface names
rawcsv     Show log in Comma Separated Value without translating fields.
search     Search log file
seqnum     Show sequence number of log messages
start-time Starting timestamp
stat       Show begin seqnum, end seqnum, and number of messages for a log file
tab        Show log without translating tabs to spaces.
tail       Show most recent messages
```

```
show log-file ipsBlock ?
Valid entries at this position are:
  <Enter>      Execute command
  ASC          Force file to be displayed in Ascending order (oldest to newest)
  DESC        Force file to be displayed in Descending order (newest to oldest)
  addIface    Add actual interface name to 'translated' name
  addUUID     Add actual UUID value to 'translated' value
  count       Limit lines returned (default of 500)
  csv         Show log in Comma Separated Value format.
  end-time    Ending timestamp
  follow      Output appended as log file grows
  more        Enable paging of output (more)
  raw         Show log in its 'raw' form.
  rawIface    Show actual interface names
  rawcsv      Show log in Comma Separated Value without translating fields.
  search      Search log file
  seqnum      Show sequence number of log messages
  start-time  Starting timestamp
  stat        Show begin seqnum, end seqnum, and number of messages for a log file
  tab         Show log without translating tabs to spaces.
  tail        Show most recent messages

show log-file quarantine ?
Valid entries at this position are:
  <Enter>      Execute command
  ASC          Force file to be displayed in Ascending order (oldest to newest)
  DESC        Force file to be displayed in Descending order (newest to oldest)
  addIface    Add actual interface name to 'translated' name
  addUUID     Add actual UUID value to 'translated' value
  count       Limit lines returned (default of 500)
  csv         Show log in Comma Separated Value format.
  end-time    Ending timestamp
  follow      Output appended as log file grows
  more        Enable paging of output (more)
  raw         Show log in its 'raw' form.
  rawIface    Show actual interface names
  rawcsv      Show log in Comma Separated Value without translating fields.
  search      Search log file
  seqnum      Show sequence number of log messages
  start-time  Starting timestamp
  stat        Show begin seqnum, end seqnum, and number of messages for a log file
  tab         Show log without translating tabs to spaces.
  tail        Show most recent messages

show log-file reputationAlert ?
Valid entries at this position are:
  <Enter>      Execute command
  ASC          Force file to be displayed in Ascending order (oldest to newest)
  DESC        Force file to be displayed in Descending order (newest to oldest)
  addIface    Add actual interface name to 'translated' name
```

```
addUUID    Add actual UUID value to 'translated' value
count      Limit lines returned (default of 500)
csv        Show log in Comma Separated Value format.
end-time   Ending timestamp
follow     Output appended as log file grows
more       Enable paging of output (more)
raw        Show log in its 'raw' form.
rawIface   Show actual interface names
rawcsv     Show log in Comma Separated Value without translating fields.
search     Search log file
seqnum     Show sequence number of log messages
start-time Starting timestamp
stat       Show begin seqnum, end seqnum, and number of messages for a log file
tab        Show log without translating tabs to spaces.
tail       Show most recent messages
```

```
show log-file reputationBlock ??
```

```
Valid entries at this position are:
```

```
<Enter>    Execute command
ASC         Force file to be displayed in Ascending order (oldest to newest)
DESC       Force file to be displayed in Descending order (newest to oldest)
addIface   Add actual interface name to 'translated' name
addUUID    Add actual UUID value to 'translated' value
count      Limit lines returned (default of 500)
csv        Show log in Comma Separated Value format.
end-time   Ending timestamp
follow     Output appended as log file grows
more       Enable paging of output (more)
raw        Show log in its 'raw' form.
rawIface   Show actual interface names
rawcsv     Show log in Comma Separated Value without translating fields.
search     Search log file
seqnum     Show sequence number of log messages
start-time Starting timestamp
stat       Show begin seqnum, end seqnum, and number of messages for a log file
tab        Show log without translating tabs to spaces.
tail       Show most recent messages
```

```
show log-file sslInspection ?
```

```
Valid entries at this position are:
```

```
<Enter>    Execute command
ASC         Force file to be displayed in Ascending order (oldest to newest)
DESC       Force file to be displayed in Descending order (newest to oldest)
addIface   Add actual interface name to 'translated' name
addUUID    Add actual UUID value to 'translated' value
count      Limit lines returned (default of 500)
csv        Show log in Comma Separated Value format.
end-time   Ending timestamp
follow     Output appended as log file grows
more       Enable paging of output (more)
raw        Show log in its 'raw' form.
```

```

rawIface      Show actual interface names
rawcsv       Show log in Comma Separated Value without translating fields.
search       Search log file
seqnum       Show sequence number of log messages
start-time   Starting timestamp
stat         Show begin seqnum, end seqnum, and number of messages for a log file
tab          Show log without translating tabs to spaces.
tail         Show most recent messages

show log-file summary [verbose]

show log-file system ?
Valid entries at this position are:
<Enter>      Execute command
ASC          Force file to be displayed in Ascending order (oldest to newest)
DESC        Force file to be displayed in Descending order (newest to oldest)
count       Limit lines returned (default of 500)
csv         Show log in Comma Separated Value format.
end-time    Ending timestamp
follow      Output appended as log file grows
more        Enable paging of output (more)
raw         Show log in its 'raw' form.
rawcsv     Show log in Comma Separated Value without translating fields.
search      Search log file
seqnum      Show sequence number of log messages
start-time  Starting timestamp
stat        Show begin seqnum, end seqnum, and number of messages for a log file
tab         Show log without translating tabs to spaces.
tail        Show most recent messages

show log-file boot ?
Valid entries at this position are:
<Enter>     Execute command
count       Limit lines returned (default of 500)
more        Enable paging of output (more)
search      Search log file
tail        Show most recent messages

```

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 congestionx

Shows network congestion breakdown.

Syntax

```
show np congestionx
```

show np diagx

Shows low level network processor counters.

Syntax

```
show np diagx          Show low level network processor counters
  detail                Show more detail
  drops                 Show more detail including per-port
                       drops
```

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 flow-cpu-stats

Shows CPU usage statistics.

Syntax

```
show np flow-cpu-stats
```

show np general statistics

Shows general network processor information.

Syntax

```
show np general statistics
```

show np mcfilt-filter-stats

Shows microfilter to filters, number of flows, successful matches.

Syntax

```
show np mcfilt-filter-stats
```

show np mcfilt-regex

Shows microfilter to filters, number of flows, successful matches.

Syntax

```
show np mcfilt-filter-stats
```

show np mcfilt-rule-stats

Shows microfilter rules, number of flows, and successful matches.

Syntax

```
show np mcfilt-rule-stats
```

show np packet-size

Shows packet size statistics.

Syntax

```
show np packet-size
```

show np protocol-mix

Syntax

```
show np protocol-mix
```

show np reassembly

Syntax

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

show np regex show

Displays network processor regular expression entries.

Syntax

```
show np regex show
  average      Sort by average time
  count        Maximum number of entries to show (default 10)
  evaluations   Sort by number of evaluations
  matches      Sort by number of matches
  maximum      Sort by maximum time (default)
  time         Sort by total time
```

show np rule-stats

Syntax

```
show np rule-stats
```

show np softlinx

Syntax


```
show np softlinx
```

show np stats show

Shows network processor statistics.

Syntax

```
show np stats show
  fqStats          Show more detail
  dpk              Show more detail including per-port
                  drops
  npTcpReas dpk   TCP reassembly statistics
```

show np throughput-utilization

Displays current throughput usage in Kbps, the maximum seen value of the current throughput usage, and the licensed throughput.

Syntax

```
show np throughput-utilization
```

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
```

VALUES	DEFINITION
Connection rate	Average number of SSL-inspected connections per second over the previous 10 minutes.
Current connections	Number of currently active SSL-inspected sessions in relation to the maximum number of active connections supported by the device.
Congested action	Action taken by the device when the maximum number of active SSL-inspected sessions is reached: <ul style="list-style-type: none"> • Pass: Sessions beyond the maximum count are not decrypted and are treated like all other IPS traffic. • Block: Sessions beyond the maximum count are blocked.

show stacking

Enter this command to show stacking status information.

Syntax

```
show stacking
```

Reference

PARAMETER	INFORMATION
Stacking enabled	Indicates whether stacking is enabled on the device.

PARAMETER	INFORMATION
Stacking active	Indicates whether stacking is currently functioning.
Stack member state	Indicates the current working state of this device on the stack.
Stack primary	Indicates whether this device manages the state of the stack.
Number of devices configured in stack	Indicates the number of TippingPoint TPS security devices that are connected together through the stacking bus.
Number of devices required in stack	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.
Advertised state	Indicates the state that the device advertises to the stack primary.

show system connections

Lists all of the processes on the device that are open for remote connections and which connections are currently in progress.

For the format of the output, refer to [netstat documentation](#).

Syntax

```
show system connections [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

```
traffic-file Show network traffic from file
FILENAME Capture file name
```

verbose	Configure verbosity level
INT	Verbosity level (0: minimum verbosity)
proto	Configure captured packets protocol
PROTO	Protocol name (default: all)
without	Configure excluded packets protocol
PROTO	Protocol name (default: all)
pcap	Configure pcap-syntax filter
FILTER	Pcap filter string (e.g. "src port 22")
pager	Show all messages

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]
```

show vlan-translation

Shows vlan translation information.

Syntax

```
show vlan-translation
```

sms

Allows you to configure SMS settings and release SMS.

Syntax

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

```
sms unmanage
```

Related commands

[show sms on page 1-48](#)

snapshot create

Allows you to manage system snapshots.

Syntax

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

Default is do not include the following:

manual	Include manually defined reputation entries in snapshot
network	Include Management port configuration in snapshot
reputation	Include reputation package in snapshot


```
nonet          Does not restore management port configuration
                if present in snapshot
```

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]] [count 1-10000000] [verbose 0-990000]  
[proto (icmp|igmp|tcp|udp|esp|ah|pim|snmp|vrrp|stp|isis|sctp)]  
[without (icmp|igmp|tcp|udp|esp|ah|pim|snmp|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, the core file directory, 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.

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
include-all-corefiles|exclude-all-corefiles
[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).

The device will mount the user disk after you run this command. This also enables the device to automatically mount the user disk as part of the startup process.

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:

- The SSD slot is only active if an SSD module is present when the device powers on.
- 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. AES encryption with a RIPEMD160 hash is used for the encryption. 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 on page 1-53](#)

[master-key on page 1-27](#)

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|sslInspection|system) USAGE[%]
system and audit log files are kept on the internal disk
ipsAlert, ipsBlock, quarantine, reputationAlert,
reputationBlock, and sslInspection 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)
rotate (set|delete) audit [Files (2-20)] [Records (100-65535)]
rotate (set|delete) ipsAlert [Files (2-20)] [Records (100-65535)]
rotate (set|delete) ipsBlock [Files (2-20)] [Records (100-65535)]
rotate (set|delete) quarantine [Files (2-20)] [Records (100-65535)]
rotate (set|delete) reputationAlert [Files (2-20)] [Records (100-65535)]
rotate (set|delete) reputationBlock [Files (2-20)] [Records (100-65535)]
rotate (set|delete) system [Files (2-20)] [Records (100-65535)]
rotate (set|delete) visibility [Files (2-20)] [Records (100-65535)]

sleepSeconds      Logrotation sleep time between checks
SLEEPSEC          Number of seconds logrotation waits between checks
defaultFiles       Default number of logrotation files
NUMFILES          Number of logrotation files (2 - 20)
defaultCheckRecords Default number of records between log daemon size checks
NUMRECORDS        Number of records between log daemon size checks
                  (100 - 65535)
maxFileSize        Max size a 'rotated' log file

```


MAXFILESIZE	Max log rotation file size in MB (10 - 500)
MB	Megabytes
FILE_NAME	Local log file name
Files	Number of logrotation files
Records	Number of records between log daemon size checks
delete	Delete the logrotation parameter

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

With the exception of `debug management-interface select` (TOS v6.0 and later), use `debug` commands only when you are instructed to do so by TippingPoint product support. You must have SuperUser permissions to use `debug np` commands.

This section is divided as follows:

- [Edit context commands on page 1-63](#)
- [Contexts and related commands on page 1-70](#)

Edit context commands

aaa

Syntax

```
aaa
```

Related Commands

[running-aaa Context Commands on page 1-70](#)

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
```

debug management-interface select

Enters debug context mode so users can switch between management ports.

Syntax

```
debug management-interface select <mgmt1> <mgmt2>
```

**Note**

With the exception of `debug management-interface select` (TOS v6.0 and later), use debug commands only when you are instructed to do so by TippingPoint product support. You must have SuperUser permissions to use `debug np` commands.

delete

Deletes file or configuration item.

Syntax

```
delete interface
```

display

Displays file or configuration item.

Syntax

```
display
```

Valid commands are:

```
# Manage context
```

```
display CTX
```

```
display conf CONF-NAME CTX
```

```
display CTX [xml]
```

```
display [xml]
```

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 TXE Series and 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{ }edit  
ips{running}interface 3-1A  
ips{running-3-1A}exit
```

Configure the management interface.

```
ips{ }edit  
ips{running}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 Mbps.

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

COMMAND	DESCRIPTION
certificates on page 1-64	Store security certificates and private keys on the TPS as device certificates.

COMMAND	DESCRIPTION
virtual-segments on page 1-70	Assign an SSL inspection profile to a virtual segment.

traffic-management

Enters traffic-management profile context.

Syntax

```
traffic-management
```

virtual-segments

Enters virtual-segments context.

Syntax

```
virtual-segments
```

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.

Syntax

```
ldap-schema SCHEMA
SCHEMA
(active-directory|novell-edirectory|fedora-ds|rfc2798|rfc2307nis|samba|custom)
```

ips{running-aaa}login

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

Syntax

```
login maximum-attempts LOGINATTEMPTS
login failure-action FAILURE-ACTION
login lockout-period DURATION
login cli-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)
password expiry-time (10d|20d|30d|45d|60d|90d|6m|1y)
password expiry-action (force-change|notify-user|disable-account)
password disallow-reuse (enable|disable)
password 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}remote-login-group

Configure LDAP, RADIUS group, or TACACS+ group to use for administrative login.



Note

You can also configure the SMS as a remote authentication source. Configure this using the SMS interface only. For more information, refer to the *SMS User Guide*.

The name you provide for each group cannot be changed. To give a group a new name, you must delete the group and re-create 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 on page 1-22](#).

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}bind-password

Configure LDAP bind password.

Syntax

```
bind-password PASSWORD
```

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>
```

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

Configure server(s) retries.

Syntax

```
retries RETRY
```

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

Configure schema.

Syntax

```
schema
```

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)
```

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

Configure version.

Syntax

```
version VERSION
```

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

COMMAND	DESCRIPTION
ips{running-certificates}ca-certificate on page 1-87	Import a CA certificate.

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

Configure server retries.

Syntax

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

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

Configure server.

Syntax


```
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

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

Related commands

COMMAND	DESCRIPTION
ips{running-certificates}ca-certificate on page 1-87	Import a CA certificate.

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

Default usergroup. The default is operator.

Syntax

```
default-usergroup GROUP
```

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

Delete file or configuration item.

Syntax

```
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 Digital Vaccines.

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 or with signing certificates and their associated private keys for use in client proxies. To inspect secure sessions, the TPS requires both the certificate and private keys from the web server or client proxy.

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

When the keystore mode is **sms-managed**, use the SMS to manage device certificates and private keys.

Syntax

```
certificate CERTNAME
```


Related commands

COMMAND	DESCRIPTION
ips{running-certificates}private-key on page 1-88	Import the private key from your web server or client proxy into the local keystore on the TPS device.
ips{running-sslinsp}server on page 1-134	Add an SSL server proxy to the TPS device with the same security settings as your web server, and assign the corresponding certificate and private key.
ips{running-sslinsp}client-proxy on page 1-131	Add an SSL client proxy to the device with your specified security settings and assign a signing certificate.

ips{running-certificates}ca-certificate

Add CA certificate.

Syntax

```
ca-certificate CANAME
```

ips{running-certificates}cert-request

Create a certificate request for the device.

Syntax

```
cert-request CERTNAME
```

ips{running-certificates}delete

Delete file or configuration item.

Syntax

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

```
ips{running-certificates}delete ?  
Valid entries at this position are:
```

ca-certificate	Delete CA certificate
cert-request	Delete certificate request
certificate	Delete device certificate and private key
signingcert-request	Delete certificate request
trust	Delete certificate authority trust
trust-store	Delete ca-store (all NAME)

ips{running-certificates}display

Display file or configuration item.

Syntax

```
display ITEM [pem|text]
```

```
ips{running-certificates}display ?
```

Valid entries at this position are:

ca-certificate	Display CA certificate content
cert-request	Display certificate requests
certificate	Display device certificate content
default	Select a Default Certificate Authority
signing-cert	Display signing certificate requests
xml	Display in XML format

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 or client proxy.

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

COMMAND	DESCRIPTION
ips{running-certificates}certificate on page 1-86	Import the certificate from your web server or client proxy into the local keystore on the TPS device.
ips{running-sslinsp}server on page 1-134	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.
ips{running-sslinsp}client-proxy on page 1-131	Add an SSL client proxy to the device with your specified security settings and assign a signing certificate.

ips{running-certificates}rename

Rename a trust store.

Syntax

```
rename TRUSTSTORENAME NEWTRUSTSTORENAME
```

ips{running-certificates}signing-cert

Generate a signing certificate to authenticate any SSL server certificate to your client.

Syntax

```
signing-cert CERTNAME
(Enter 'exit' to abort the command)
Enter Common Name (string, required):
Enter Country (two letter code or 'none')[none]:
Enter State (string or 'none')[none]:
Enter Locality (string or 'none')[none]:
Enter Organization (string or 'none')[none]:
Enter Unit (string or 'none')[none]:
Enter E-mail (string or 'none')[none]:
```

```
Enter FQDN (a string or 'none')[none]:
Enter User FQDN (string or 'none')[none]:
-----BEGIN CERTIFICATE-----
<cert_contents>
-----END CERTIFICATE-----
```

ips{running-certificates}trust

Specify a certificate authority to trust.

Syntax

```
trust [default-ca] CANAME(( all)|( TRUST-TYPES){1,3})
```

ips{running-certificates}trust-store

Configure a store of trusted CA certificates.

Syntax

```
ips{running-certificates}trust-store TRUSTSTORE
ips{running-certificates-TRUSTSTORE}?
Valid entries at this position are:
add-ca           Add CA certificate to trust store
default-ca      Add or remove default CA certificates to
                trust store
description     Add description to trust store
display         Display trust store configuration item
help           Display help information
remove-ca      Remove CA certificate from trust store
```

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}delete https-ca-certificate

Deletes an HTTPS CA certificate or CA certificate chain.

Syntax

```
delete https-ca-certificate
  delete          Delete file or configuration item
  https-ca-certificate Delete HTTPS CA certificate chain
```

ips{running-gen}delete https-certificate

Deletes an HTTPS certificate.

Syntax

```
delete https-certificate
  delete          Delete file or configuration item
  https-certificate Delete HTTPS certificate
```

ips{running-gen}ephemeral-port-range

Set the range of the ephemeral port (default is 32768-60999).

Syntax

```
ephemeral-port-range (default|(LOWRANGE HIGHRANGE))
default Default port range value 32768-60999 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 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 on page 1-95](#) for more information.

Syntax

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

ips{running-gen}https-certificate

Display or configure HTTPS certificate.

This command requires that you enter a private key in addition to the certificate.

Syntax

```
https-certificate
```

To view the contents of the certificate, including its common name and valid dates, use a tool such as Nmap or OpenSSL. Ensure that the tool you use runs on the same network as your TPS device.

For example:

```
nmap <device-ip-address or hostname> -p 443 -script ssl-cert
```

ips{running-gen}https-ca-certificate

Display or configure HTTPS CA certificate or a chain of CA certificates.

Syntax

```
https-ca-certificate
```

To view the contents of the certificate, including its common name and valid dates, use a tool such as Nmap or OpenSSL. Ensure that the tool you use runs on the same network as your TPS device.

For example:

```
nmap <device-ip-address or hostname> -p 443 -script ssl-cert
```


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 on page 1-93](#) for more information.

Syntax

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

[Learn more on page 1-2](#) 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 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
```

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 TX Series 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.

INSPECTION BYPASS RULE	RESULTING NUMBER OF PORT-VLAN RULE COMBINATIONS
IPv4 traffic on TCP 1556 with untagged traffic or a particular VLAN ID	1
IPv6 traffic on TCP 1556 with untagged traffic or a particular VLAN ID	2
IPv4 traffic on TCP 1556 with VLAN 10 – 100	90
IPv6 traffic on TCP 1556 with VLAN 10 – 100	180

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.

FOR A	MAXIMUM (APPROXIMATE) NUMBER OF PORT-VLAN RULE COMBINATIONS
440T	256 when bypassing IPv4 128 when bypassing IPv6 traffic
2200T	2560 when bypassing IPv4 traffic 1280 when bypassing IPv6 traffic
1100TX	448 when bypassing IPv4 traffic 256 when bypassing IPv6 traffic
5500TX	1792 when bypassing IPv4 traffic 1024 when bypassing IPv6 traffic
8200TX	512 when bypassing IPv4 or IPv6 traffic
8400TX	512 when bypassing IPv4 or IPv6 traffic

Syntax

Type **help** and press Enter for more information.

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

This command takes the following options:

ENTRY TITLE	DESCRIPTION
ID	Reference ID of the rule in the listing.
Enabled	Enable/disabled status.
Name	Name of the bypass rule. Inspection bypass rule names should be unique. The name is an SMS-only feature and does not appear on the managed device.
Ethernet Type	Type of Packets that are exempt from traffic based on the Rules criteria: <ul style="list-style-type: none"> • IP — Type of IP packets that are exempt. • Not IP — All non-IP packets that are exempt from inspection. • Protocol — Packets from a specified protocol that are exempt.
IP Protocol	Transport layer protocol of packets to exempt from inspection.
Statistics	Number of packets that match a bypass rule.
Src IP	Source IP address of packets to exempt from inspection.
Src Port	Source port of packets to exempt from inspection. This field is valid only if TCP or UDP is specified in the IP Protocol field.
Dst IP	Destination IP address of packets to exempt from inspection.
Dst Port	Destination port of packets to exempt from inspection. This field is valid only if TCP or UDP is specified in the IP Protocol field.

ENTRY TITLE	DESCRIPTION
Action	<p>Action that the rule applies to the traffic. (TPS devices only)</p> <ul style="list-style-type: none"> • Bypass (default) – Bypasses the traffic. • Block – Blocks the traffic. • Redirect – Redirects the traffic. A Target Port field (required) is displayed for you to specify which segment port the traffic gets redirected to. This option is unselectable if no target port is available. • Ingress mirror – Mirrors (copies) traffic entering the port to another segment port before the traffic gets inspected. A Target Port field (required) is displayed for you to specify which segment port the traffic gets mirrored to. Four mirror-to-port (MTP) configurations are supported. This option is unselectable if no target port is available. • Egress mirror – Mirrors (copies) inspected traffic exiting the port to another segment port. A Target Port field (required) is displayed for you to specify which segment port the inspected traffic gets mirrored to. Four MTP configurations are supported. The port-assigned Virtual LAN (VLAN) is recorded inside the captured packet. This option is unselectable if no target port is available.

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

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

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

Specify which action the rule applies to the traffic.

Syntax

```
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:

```
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:

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

To capture all ingress IP traffic matching subnet 172.20.21.x, and redirect the traffic to port 1-1B:

```
ips{running-inspection-bypass-rule-myrule1}src-address
  172.20.21.0/24
ips{running-inspection-bypass-rule-myrule1}action
  ingress-mirror 1-1B
ips{running-inspection-bypass-rule-myrule1}commit
ips{running-inspection-bypass-rule-myrule1}exit
ips{running-inspection-bypass}exit
ips{running}exit
ips{}show inspection-bypass
#####
#  INSPECTION BYPASS RULES  #
#####

Rule Name:                mirror1
ID:                        1
Enabled:                   true
Action:                    ingress-mirror to port 1-1B
EthType:                   ip
Ports:                     <any>
IP Proto:                  <any>
VLAN ID:                   <any>
Source Port:               <any>
Destination Port:         <any>
```

Source Address:	172.20.21.0/24
Destination Address:	<any>
Packets matching switch rule:	0
Bytes matching switch rule:	0
Resources Allocated:	0
Rule Priority:	0

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](#). 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>.

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
TIMEOUTTYPE          Connection table timeout type
Possible values for TIMEOUTTYPE are:
non-tcp-timeout      Connection table non-tcp timeout
timeout              Connection table timeout
```

```
trust-timeout      Connection table trust timeout
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. Note that the deployment options displayed will vary according to the Digital Vaccine (DV) that is installed.

Syntax

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



Note

Enter the full deployment name without quotes, including any [DEPRECATED] label.

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

```
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

```
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

```
profile PROFILENAME client-ip [enable|disable] http-context
[enable|disable]
```

ips{running-ips}quarantine-duration

Sets quarantine duration.

Syntax

```
quarantine-duration DURATION  
DURATION value between 1 to 1440 minutes
```

ips{running-ips}rename

Renames a profile.

Syntax

```
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

```
categoryrule
```

ips{running-ips-1}delete

Delete file or configuration item.

Syntax

```
delete filter FILTERNUMBER  
FILTERNUMBER Existing filter number
```

ps{running-ips-1}deployment

Specify a profile deployment. Deployment options will vary according to the Digital Vaccine (DV) that is installed.

Syntax

```
deployment DEPLOYMENTNAME
```



Note

Enter the full deployment name without quotes, including any [DEPRECATED] label.

ips{running-ips-1}description

Edit description for a profile.

Syntax

```
description DESCRIPTION
```

ips{running-ips-1}filter

Creates or enters a filter context.

Syntax

```
filter FILTERNUMBER
```

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_configure	Enable logging xms configure
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

```
email-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 (1-20 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: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

```
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

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

ips{running-rep}profile

Create or enter reputation profile context.

Syntax

```
profile PROFILENAME
```

ips{running-rep}rename

Rename a reputation profile or group.

Syntax

```
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

```
delete domain DOMAINNAME
delete ip (A.B.C.D|A.B.C.D/M|X:X::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

New IP address (IPv5/IPv6/CIDR).

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-exception

Add IP address exception.

Syntax

```
ip-exception 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{running-services}service

Edit a service.

Syntax

```
service SERVICENAME
```

running-services-X Context Commands

Immediate Commit Feature. Changes take effect immediately.

ips{running-services-myservice1}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{running-services-myservice1}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{running-snmp}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
3	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

ips{running-snmp}username

Configure SNMPv3 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.

Syntax

```
ips{running-sslinsp}
Valid commands are:
  client-decryption-policy CLIENT_DECRYPTION_POLICY_NAME
  client-inspection disable
  client-inspection enable
  client-proxy CLIENT_PROXY_NAME
  delete client-decryption-policy (all|CLIENT_DECRYPTION_
    POLICY_NAME)
  delete client-proxy (all|CLIENT_PROXY_NAME)
  delete log sslInspection CONTACT-NAME
  delete profile (all|PROFILE_NAME)
  delete server (all|SERVER_NAME)
```

```

help [full|COMMAND]
log sslInspection CONTACT-NAME [ALL|none]
profile PROFILE_NAME
rename client-decryption-policy CLIENT_DECRYPTION_
    POLICY_NAME NEW_CLIENT_DECRYPTION_POLICY_NAME
rename client-proxy CLIENT_PROXY_NAME NEW_CLIENT_
    PROXY_NAME
rename profile PROFILE_NAME NEW_PROFILE_NAME
rename server SERVER_NAME NEW_SERVER_NAME
server SERVER_NAME
server-inspection disable
server-inspection enable

```

ips{running-sslinsp}client-decryption-policy

Create or select a client decryption policy.

The decryption policy specifies which SSL traffic to always decrypt or to not decrypt—including domains, addresses, and server categories—and any exceptions.

```

ips{running-sslinsp} client-decryption-policy CLIENT_DECRYPTION_
    POLICY_NAME
Valid entries:
delete                Delete file or configuration item
description           Apply SSL client decryption policy
                    description
display              Display SSL client-decryption-policy
                    configuration
help                 Display help information
never-decrypt-address  Configure never decrypt destination
                    address
never-decrypt-domain  Configure never decrypt Domain Name

```

ips{running-sslinsp}client-inspection enable

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

To enable SSL client inspection, the TPS device must be licensed for SSL inspection. To request an SSL Inspection license, contact your sales representative. Manage your license package by using the License Manager on the TMC. When you log in to the TMC, the License Manager is under **My Account > License Manager**.

Syntax

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

ips{running-sslinsp}client-proxy

Create or select an SSL client proxy.

The client proxy acts as an intermediary that performs SSL encryption and decryption between your client and the SSL server. The client proxy name must be unique and is limited to 128 characters, which can include uppercase and lowercase letters, digits, underscores, dashes, and spaces.

After you create the client-proxy, add it to an SSL inspection policy. If you attempt to create an SSL client policy within an SSL profile without defining an SSL client proxy, an error message is displayed.

```
ips{running-sslinsp} client-proxy CLIENT_PROXY_NAME
```

Valid entries at this position are:

block-connection-expired-cert	Enable or disable blocking connections using expired certificates
block-connection-invalid-cert	Enable or disable blocking connections using invalid certificates
cipher-suite	Select SSL cipher suites
decrypted-service	Select IP service filter to

	use after SSL decryption
delete	Delete file or configuration item
description	Apply or delete proxy description
detection-port	Add or delete detection port or range
display	Display SSL client-proxy configuration
help	Display help information
http2-to-http1-downgrade	Enable or disable downgrade HTTP2 protocol to HTTP1
logging	Enable or disable SSL session logging
min-cert-key-len	Minimum certificate key length
protocol	Select SSL protocols
signing-cert	Select SSL signing certificate
tcp-reset	Enable or disable sending TCP reset on blocked connections

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 found in the *sslInspection.log* on the device.



Important

To generate SSL inspection log entries, enable logging on the SSL server proxy or client proxy for troubleshooting purposes only. By default, these proxies do not generate logging information except for failed connections. See [ips{running-sslinsp}server on page 1-134](#).

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 or client policies. A *server policy* consists of an SSL server, and any source IP address exceptions. A *client policy* consists of an SSL client proxy that performs SSL encryption and decryption between your client and the SSL server, an SSL trust store that establishes which certificate authorities you trust, and, optionally, a decryption policy. 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.

At least one server policy or client policy is required. When you create a new profile, you must add your policy to the profile and assign a name for your server or client proxy 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
```

Valid entries at this position are:

client-policy	SSL client-policy
delete	Delete file or configuration item
description	Apply SSL inspection profile description
display	Display profile configuration

help	Display help information
policy	SSL server policy
rename	Rename an SSL client or server policy

Related commands

COMMAND	DESCRIPTION
ips{running-certificates}certificate on page 1-86	Import the certificate from your web server or client proxy into the local keystore on the device.
ips{running-certificates}private-key on page 1-88	Import the private key from your web server or client proxy into the local keystore on the TPS device.
ips{running-vsegs-VSEG_NAME}ssl-profile on page 1-143	Update the virtual segment to assign the SSL inspection profile.
ips{running-sslinsp}server on page 1-134	Add an SSL server with its assigned security certificate and private key.
ips{running-sslinsp}client-proxy on page 1-131	Add an SSL client proxy to the device with your specified security settings and assign a signing certificate.

ips{running-sslinsp}rename

Rename a specified SSL inspection object.

Syntax

```
rename [client-decryption-policy|client-proxy|profile|server]
      OLDNAME NEWNAME
```

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 proxy to an SSL server policy within an SSL inspection profile. Enable logging on the SSL server proxy for troubleshooting purposes only.



Note

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

The protocol `SSL-PROTOCOL` and cipher-suite `SSL-PROTOCOL` options have "auto-" commands to allow selection of cipher suites by protocol or protocols by cipher suite, respectively. Use the "auto-" command to add or delete ciphers based on what protocol is selected and what it supports.

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 192.169.0.0/24. Specify or delete the **device certificates** that the TPS device uses to decrypt and encrypt TLS traffic across the specified range of server IP addresses. Make sure that the corresponding private keys are assigned to the device certificates.

Syntax

```
server SERVERNAME
Valid entries at this position are:
  certificate           Apply SSL server certificate
  cipher-suite         Select SSL cipher suites
  decrypted-service    Apply IPS service filter after SSL
                      decryption
  delete               Delete file or configuration item
  description          Apply server description
  detection-port       Apply port
  display              Display SSL server configuration
  help                 Display help information
```

ip	Apply IP addresses
logging	Enable SSL session logging
protocol	Select SSL protocols
tcp-reset	Send TCP reset to SSL server on blocked connection

Related commands

COMMAND	DESCRIPTION
ips{running-certificates}certificate on page 1-86	Import the certificate from your web server or client proxy into the local keystore on the device.
ips{running-certificates}private-key on page 1-88	Import the private key from your web server or client proxy into the local keystore on the TPS device.
ips{running-vsegs-VSEG_NAME}ssl-profile on page 1-143	Update the virtual segment to assign the SSL inspection profile.
ips{running-sslinsp}profile on page 1-133	Assign the SSL server to an SSL inspection profile.
ips{running-sslinsp}client-proxy on page 1-131	Add an SSL client proxy to the device with your specified security settings and assign a signing certificate.

ips{running-sslinsp}server-inspection enable

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

To enable SSL server inspection, the TPS device must be licensed for SSL inspection. To request an SSL Inspection license, contact your sales representative. Manage your license package by using the License Manager on the TMC. When you log in to the TMC, the License Manager is under **My Account > License Manager**.

Syntax

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

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 NEWTRAFPROFNAME  
profile TRAFPROFNAME
```

ips{running-trafmgmt}rename

Rename traffic-management profile.

Syntax

```
rename profile TRAFPROFNAME NEWTRAFPROFNAME
```

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 NEWSEGNAME
```

ips{running-vsegs}virtual-segment

Create or enter virtual-segment context.

Syntax

```
virtual-segment VSEGNAME
virtual-segment NEWSEGNAME
```

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

<code>vlan-id</code>	<code>profile</code> Add <code>vlan id</code> 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.



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 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

```
ips-profile PROFILENAME
```

ips{running-vsegs-VSEG_NAME}delete ips-profile

Delete an existing IPS security profile associated with this virtual segment.

Syntax

```
delete ips-profile PROFILENAME
```

ips{running-vsegs-VSEG_NAME}reputation-profile

Associate an existing reputation profile with this virtual segment.

Syntax

```
reputation-profile PROFILENAME
```


ips{running-vsegs-VSEG_NAME}delete reputation-profile

Delete an existing reputation profile associated with this virtual segment.

Syntax

```
delete reputation-profile PROFILENAME
```

ips{running-vsegs-VSEG_NAME}ssl-profile

Edit the virtual segment to assign an SSL inspection profile.

Syntax

```
ssl-profile PROFILENAME
```

Related commands

COMMAND	DESCRIPTION
ips{running-sslinsp}profile on page 1-133	Create an SSL-inspection profile.

ips{running-vsegs-VSEG_NAME}delete ssl-profile

Delete an existing SSL inspection profile associated with this virtual segment.

Syntax

```
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-vseaname}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

```
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

```
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

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

```
delete-translation <PORT> <incoming VLAN ID>
```



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