HP MSM Access Points

CLI Reference Guide

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Applicable Products
See *Products covered on page 1-2*.

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Contents

Alphabetical list of commands

1

Introduction

Contents

About this guide

This guide explains how to work with the Command Line Interface (CLI) on HP MSM APs.

Products covered

This guide covers the following products:

Model	WW	Americas	TAA	Japan	Israel	Operating Mode
HP 560	J9846A	J9845A		J9847A	J9848A	C, A
MSM466	J9622A	J9621A	J9656A	J9620A	J9619A	C, A
MSM466-R	J9716A	J9715A		J9717A	J9718A	C, A
MSM460	J9591A	J9590A	J9655A	J9589A	J9618A	C, A
MSM430	J9651A	J9650A	J9654A	J9652A	J9653A	C, A
MSM422	J9359A/B	J9358A/B		J9530A/B	J9617A	C, A
MSM410	J9427A/B	J9426A/B		J9529A/B	J9616A	C, A
MSM325	J9373A/B	J9369A/B				C
MSM310-R	J9383A/B	J9380A/B				C
MSM320	J9364A/B	J9360A/B		J9527A/B		C
MSM320-R	J9368A/B	J9365A/B		J9528A/B		C
MSM310	J9379A/B	J9374A/B		J9524A/B		C

C: AP supports controlled mode.
A: AP supports autonomous mode.

Note

- All references to the MSM320 also apply to the MSM325.
- All references to the MSM466 also apply to the MSM466-R.

Important terms

The following terms are used in this guide.

Term	Description
AP	Refers to any HP MSM3xx or MSM4xx Access Point.
controller, service controller	Refers to any HP MSM7xx Controller, including both Access Controller and Mobility Controller variants.
VSC, Virtual ap, VAP	These terms are used interchangeably to refer to VSC (Virtual Service Community).

Typographical conventions

Command syntax

Command syntax is formatted in a monospaced font as follows:

Example	Description
`web admin kickout`	Items in plain text must be entered as shown.
`ip http port <number>`	Items in italics and enclosed in < > are parameters for which you must supply a value. In this example, you must supply a value for <*number*>.
`end [force]`	Items enclosed in square brackets are optional. You can either include them or not. Do not include the brackets. In this example you can either include “force” or omit it.
`firewall mode (high|low|none)`	Items enclosed in parenthesis and separated by a vertical line indicate a choice. Specify only one of the items. In this example, you must specify ’high’, ’low’, or ’none’.

Management tool

When referring to the management tool interface, the Main menu name is presented first followed by a right angle-bracket and then the sub-menu name, as in **Network > Ports**.

HP support

For support information, visit www.hp.com/networking/support. Additionally, your HP-authorized networking products reseller can provide you with assistance.

Before contacting support

To make the support process most efficient, before calling your networking dealer or HP Support, you first should collect the following information:

Collect this information	Where to find it
Product identification.	On the rear of the product.
Software version.	The service controller management tool **Login** page.
Network topology map, including the addresses assigned to all relevant devices.	Your network administrator.

Online documentation

You can download documentation from the HP Support Website at: www.hp.com/support/manuals.

Search by product name or part number.

CLI support in autonomous and controlled modes

Controlled mode

Controlled mode is the factory default mode for all APs.

When in controlled mode, an AP establishes a control channel with a controller. The controller manages the AP and provides all configuration settings. Discovery of the controller is automatic if default settings are used on all devices.

In controlled mode, access to the CLI is possible only before the control channel to the controller is established, which can occur in the following scenarios:

- Network failures prevent a control channel from being created.
- After an AP is restarted, prior to establishment of the control channel (during the brief controller discovery process).

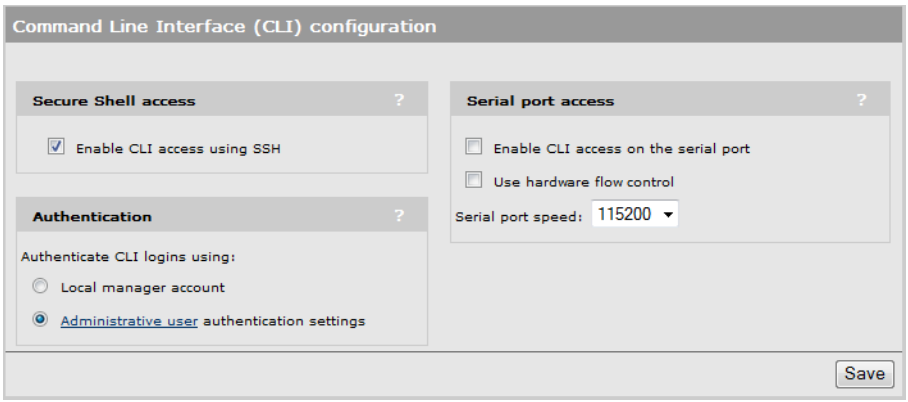
When the AP is in controlled mode, a reduced number of CLI commands are available. The most notable command is **switch operational mode**, which enables you to switch the AP to autonomous mode. The **config** context is not available.

Autonomous mode

When in autonomous mode, the AP operates as a stand-alone unit. Autonomous mode supports all CLI commands. You can also configure and manage the AP using the AP management tool, SNMP, CLI, or SOAP.

Configuring CLI support

CLI support is configured using the management tool on the AP. Select **Management > CLI** to open the **Command Line Interface (CLI) configuration** page.



Note A maximum of three concurrent CLI sessions are supported.

Secure shell access

Enable this option to allow access to the CLI via an SSH session. The CLI supports SSH on the standard TCP port (22).

SSH connections to the CLI can be made on any active interface. Support for each interface must be explicitly enabled under **Security** on the **Management > Management tool** page.

The following SSH clients have been tested with the CLI: OpenSSH, Tectia, SecureCRT, and Putty. Others may work as well

Note

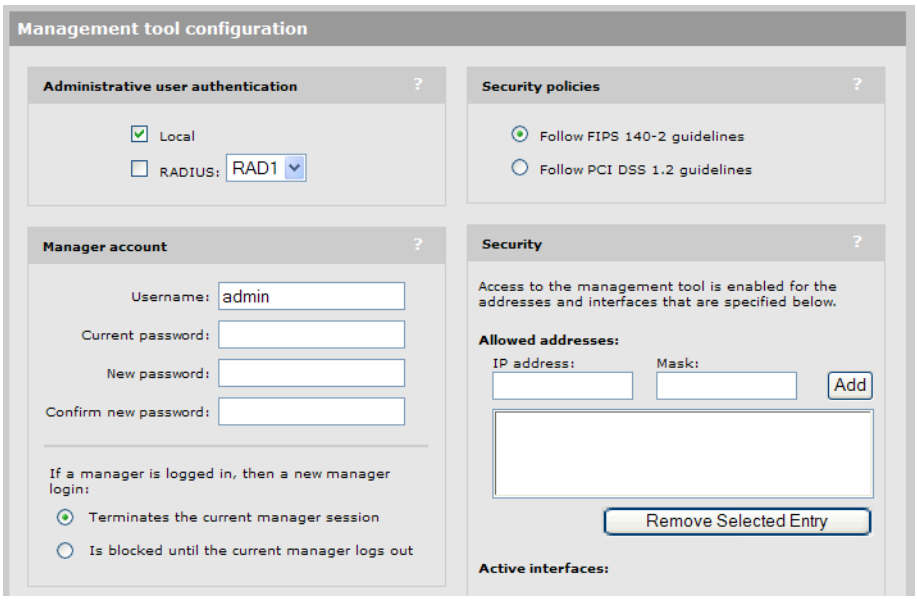
- After 10 unsuccessful login attempts via SSH, login to the CLI is locked for 5 minutes. After the lockout expires, each subsequent unsuccessful login attempt re-activates the lockout period. This behavior repeats until a successful login is completed.

  Depending on your SSH configuration, your client may make several login attempts with each connection attempt.

- The login username and password for the CLI are the same as those defined for the **manager account** on the **Management > Management tool** page. (**Important:** If you define an **operator account** on the RADIUS server, then the operator will be able to login to the CLI via SSH with full manager privilages.)

Authentication

The CLI validates login credentials (username and password) using the settings defined on the **Management > Management tool** page (shown here for reference).



Local manager account

The login username and password are the same as those defined for the **local manager account**. If this account is disabled, the last known username and password for this account are used.

Administrative user authentication settings

The login username and password use the same settings (**Local** and/or **RADIUS**) as defined for the manager account.

Serial port access

Access to the CLI via the serial (console) port is available on the MSM410, MSM422, MSMS430, MSM460, and MSM466.

Enable the CLI on serial port

When enabled, access to the command line interface is permitted via the serial port.

Use hardware flow control

Enables hardware flow control.

Serial port line speed

Speed of the serial port connection.

Starting a CLI session on the serial port

The following sequence of steps illustrate how to start a CLI session via a serial connection to the AP.

1. Power off the AP.
2. Connect a serial cable to the AP console port. See *Console Ports* in the *MSM3xx / MSM4xx Access Points Configuration Guide*.
3. Configure a communications terminal program (such as Microsoft Hyperterminal for Windows, or Minicom for Linux) as follows:
   - **Terminal**: VT-100 (ANSI)
   - **Speed**: Set speed according to **Serial port speed** option (**Management > CLI)**:
   - **Data bits**: 8
   - **Stop bits**: 1
   - **Parity**: none
   - **Flow control**: none
4. Open an appropriately-configured terminal session.
5. Power on the AP. System boot messages appear.
6. Wait for the login prompt to appear.

   ```
   login:
   ```

7. Type the login username and press Enter.
8. The password prompt appears.

   ```
   password:
   ```

9. Type the login password and press Enter.
10. The CLI prompt appears. You can now enter CLI commands.

    ```
    CLI>
    ```

Entering strings

When entering a value that contains spaces, you must enclose it in quotation marks. For example, if the command syntax is:

```
ssid <name>
```

you must specify one of the following:

```
ssid ANameWithNoSpaces
ssid "A name with spaces"
```

Context hierarchy

CLI commands are grouped into functional contexts. The following table shows the context hierarchy and the command used to switch from the parent context.

Context hierarchy	Command to switch from parent context
View context	*(This is the root context. No command is needed.)*
Enable context	enable
Config context	config
WAN IP interface context	interface ip
Port-2 interface context	interface ethernet *port-2*
VLAN interface context	interface vlan <*id*>[-<*id2*>]
Port-1 interface context	interface ethernet port-1
VLAN interface context	interface vlan <*id*>[-<*id2*>]
Wireless context	interface wireless <*number*>
Local mesh context	local mesh profile <*name*>
VLAN interface context	interface vlan <*number*>
GRE interface context	interface gre <*name*>
Virtual AP context	virtual ap <*name*>
Syslog destination context	logging destination <*name*>
SNMP user context	snmp-server user <*name*>
SNMP notification receiver context	snmp-server notification receiver <*host*>
RADIUS context	radius-server profile <*name*>
IP_QOS context	ip-qos profile <*name*>
Network profile context	network-profile <*name*>

Sample CLI session

This sample CLI session shows you how to set the wireless port to support 802.11a on channel 60 with medium distance between access points. (The CLI prompt is shown in bold.)

```
CLI> enable
CLI# config
CLI(config)# interface wireless
CLI(config-if-wlan)# dot11 a 60
CLI(config-if-wlan)# distance medium
CLI(config-if-wlan)# end
CLI(config)# end
CLI# quit
```

2

CLI commands

Contents

View context

Path: View

This is the root of the command tree.

arping

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`arping [ -AbDfhqUV] [ -c <count>] [ -w <deadline>] [ -s <source>] -I <interface> <destination>`

Pings a destination on a device interface using ARP packets.

enable

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`enable`

Switches to the enable context.

iperf

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`iperf -c host [-t time]`

Runs a performance throughput test.

Parameters

<-c host>	The IP address or DNS name of the iperf server to connect to.
<-t length>	Length of the throughput test in seconds.

nslookup

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`nslookup [ -option authentication ] [ <host-to-find> | - [< server> ]]`

Queries DNS servers for information on hosts or domains.

ping

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`ping <host> [-c <count>] [-s <length>] [-q]`

Determines if the specified remote IP address is active.

Parameters

<-c host>	The IP address or DNS name of the host to ping.
<-c count>	Number of pings.
<-s length>	Length of the ping datagram.
<-q>	Quiet mode. No output.

ps

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
ps
```

Displays all running processes.

quit

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
quit
```

Exits the CLI.

show license

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show license (eula | gpl | other)
```

Displays license information.

show logging filtered

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show logging [filtered]
```

Displays the system log.

top

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
top
```

Displays all running processes.

traceroute

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
traceroute [-n] [-r] [-v] [-m <max_ttl>] [-p <port#>] [-q <nqueries>] [-s
<src_addr>] [-t <tos>] [-w <wait>] <host> [<data size>]
```

Displays the hosts that are traversed to reach the specified IP address.

show event id

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show event id <id>
```

Displays detailed information for the specified event.

show events

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show events
```

Displays all events.

show events category

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show events category <category>`

Displays events that match the specified category.

show events client

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show events client <macaddr>`

Displays events for the specified client station (MAC address).

show events date

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show events date <yyyy-mm-dd_hh:mm:ss>`

Displays events that occurred after the specified date and time.

show events interval

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show events interval <yyyy-mm-dd_hh:mm:ss> <yyyy-mm-dd_hh:mm:ss>`

Displays events that occurred between the specified start date/time and end date/time.

show events most-recent

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show events most-recent <count>`

Displays the specified number events starting with the most recent event.

show events severity

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show events severity <severity>`

Displays events that match the specified severity.

Enable context

Path: View > Enable

This context provides access to various utilities.

reboot device

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
reboot device
```

Restarts the system.

show certificate

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show certificate
```

Displays current certificates.

show certificate binding

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show certificate binding
```

Displays how the certificates are used.

iperf

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
iperf -c host [-t time]
```

Runs a performance throughput test.

Parameters

<-c host>	The IP address or DNS name of the iperf server to connect to.
<-t length>	Length of the throughput test in seconds.

ping

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
ping <host> [-c <count>] [-s <length>] [-q]
```

Determines if the specified remote IP address is active.

Parameters

<-c host>	The IP address or DNS name of the host to ping.
<-c count>	Number of pings.
<-s length>	Length of the ping datagram.
<-q>	Quiet mode. No output.

arping

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
arping [ -AbDfhqUV] [ -c <count>] [ -w <deadline>] [ -s <source>] -I <interface>
<destination>
```

Pings a destination on a device interface using ARP packets.

arp

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
arp [-evn] [-H <type>] [-i if] ?- [<hostname>] arp [-v] [-i if] -d <hostname>
[pub] arp [-v] [-H <type>] [-i if] -s <hostname> <hw_addr> [temp] arp [-v] [-H
<type>] [-i if] -s <hostname> <hw_addr> [<netmask> <nm>] <pub> arp [-v] [-H
<type>] [-i if] -Ds <hostname> ifa [<netmask> <nm>] <pub>
```

Displays and modifies the Internet-to-Ethernet address translation tables used by the address resolution protocol.

end

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
end
```

Switches to parent context.

quit

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
quit
```

Exits the enable context.

rcapture

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
rcapture -u <URI> [-c <count>] -i <interface>
```

Captures data on a port and sends it to a file on an FTP server.

Parameters

<URI>	Address of the FTP site and filename where the trace will be saved. For example: ftp://user:pass@ftp.mysite.com/trace.pcap
<count>	Number of packets to capture.
<interface>	Interface to trace: eth0 = Internet port, eth1 = LAN port, wvlan0 = wireless port

show arp

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show arp
```

Displays the ARP table.

show bridge

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show bridge
```

Displays bridge information.

show bridge forwarding

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show bridge forwarding
```

Displays bridge forwarding information.

show dns cache

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show dns cache [<serial>]
```

Displays DNS cache entries. Specify a serial number to display detailed information.

show interfaces

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show interfaces
```

Displays networking interfaces.

show ip

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show ip
```

Displays all IP addresses.

show ip route

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show ip route
```

Displays all IP routes.

show system info

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show system info
```

Displays basic system information.

show vsc overview

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show vsc overview
```

Displays an overview of the current VSCs.

show wireless clients

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show wireless clients`

Displays all wireless clients.

disassociate wireless client

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`disassociate wireless client [<client_macaddress>]`

Terminates the connection for the specified wireless client.

factory reset

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`factory reset`

Resets the unit to factory default settings.

switch operational mode

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`switch operational mode`

Switches the unit's operational mode.

show dot11 associations

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show dot11 associations`

Displays all current wireless associations.

show dot11 statistics client-traffic dot11n

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show dot11 statistics client-traffic [dot11n [<macaddress]>]`

Displays statistics for the specified client station.

show local mesh

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show local mesh`

Displays current local mesh interfaces.

show wireless neighborhood

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show wireless neighborhood`

Displays all access points detected nearby.

show wireless rogue-ap

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show wireless rogue-ap
```

Displays all rogue access points detected nearby.

show client log

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show client log [<macaddr>]
```

Displays the client station log. Enter the MAC address to display more details for a specific client station.

show discrete pin

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show discrete pin
```

Displays the state of the discrete pin.

show strap state

Supported on: MSM422

```
show strap state
```

Display the strap bits state.

execute bonjour service scan

Supported on: HP 560 MSM466 MSM460 MSM430 MSM410

```
execute bonjour service scan <macaddr> <networkname>
```

Scan for Bonjour services offered by the device with the specified MAC address on the specified interface.

Parameters

`macaddr`	The MAC address of the device to scan for Bonjour services.
`networkname`	Name of the interface on which to scan.

show bonjour service scan result

Supported on: HP 560 MSM466 MSM460 MSM430 MSM410

```
show bonjour service scan result
```

Displays the results of the last Bonjour service scan.

config

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
config
```

Switches to the config context.

show all config

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show all config
```

Displays all configuration settings that apply to this device.

Config context

Path: View > Enable > Config

This is the root context for all configuration commands.

certificate

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`certificate (authority | local) <uri> <certname> [<password>]`

Adds a new certificate to the store, using the specified friendly name.

certificate binding

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`certificate binding (web-management | html-auth | soap | eap) <certname>`

Assigns a certificate to a service.

`no certificate binding (web-management | html-auth | soap | eap) <certname>`

Unassigns a certificate from a service.

certificate revocation

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`certificate revocation <uri> <certname>`

Adds a Certificate Revocation List (CRL) to an existing authority certificate.

end

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`end`

Switches to parent context.

factory settings

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`factory settings`

Resets the system configuration to factory default settings.

network-profile

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`network-profile <name>`

Add/Edits the specified network profile or create a new profile with the specified name.

`no network-profile <name>`

Deletes the network profile with the specified name.

reboot device

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
reboot device
```

Restarts the system.

show certificate

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show certificate
```

Displays current certificates.

show certificate binding

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show certificate binding
```

Displays how the certificates are used.

show config factory

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show config [factory]
```

Generates a list of CLI commands that can be used to define the currently loaded configuration.

show network-profiles

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show network-profiles
```

Displays all currently defined network profiles.

show tech

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show tech
```

Displays tech support information.

interface ethernet

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
interface ethernet (port-1|port-2)
```

Switches to the specified Ethernet interface context.

interface ip

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
interface ip
```

Switches to the specified IP interface context.

interface wireless

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`interface wireless <interface number>`

Switches to the specified wireless interface context.

local mesh profile

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`local mesh profile <name>`

Switches to the specified local mesh link context.

Parameters

<name>	Number of the local mesh profile to configure.

interface gre

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`interface gre <name>`

Switches to the specified GRE interface or creates a new GRE interface with the specified name.

`no interface gre <name>`

Deletes the specified GRE interface.

virtual ap

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`virtual ap <name>`

Creates a new VSC (VAP) profile or switches to the existing VSC (VAP) context with the specified name.

`no virtual ap <name>`

Deletes the specified VSC (VAP) profile.

Parameters

`name`	Name of an existing or new VSC (VAP) profile.

cap-switch to

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`cap-switch to (ap | ac | wab)`

Switches to the specified operational mode.

Parameters

`ap`	Switches operational mode to CAP MultiService Access Point.
`ac`	Switches operational mode to CAP MultiService Controller.
`wab`	Switches operational mode to WAB Wireless Station.

mac list

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`mac list <name>`

Edits the specified MAC list or create a new list with the specified name.

`no mac list <name>`

Deletes the specified MAC list.

show mac list

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show mac list [<name>]`

Displays all current MAC lists, or details for the specified list.

rrm analysis

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`rrm analysis (analyze | apply | analyze-and-apply)`

Performs any of the actions.

rrm ap-load-balancing

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`rrm ap-load-balancing`

Enables ap-load-balacing.

`no rrm ap-load-balancing`

Disables ap-load-balancing.

rrm apply baseline slot

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`rrm apply baseline slot <id>`

Applies the baseline stored in slot ID.

rrm apply plan automatically

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`rrm apply plan automatically`

Enables apply plan automatically.

`no rrm apply plan automatically`

Disables apply plan automatically.

rrm auto-channel

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
rrm auto-channel
```

Enables auto-channel.

```
no rrm auto-channel
```

Disables auto-channel.

rrm auto-power

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
rrm auto-power
```

Enables auto-power.

```
no rrm auto-power
```

Disables auto-power.

rrm delete baseline slot

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
rrm delete baseline slot <id>
```

Deletes the baseline stored in slot ID.

rrm export baseline slot _

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
rrm export baseline slot <id> <ftp_url>
```

Exports the baseline stored in slot ID.

rrm radio-down-mitigation

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
rrm radio-down-mitigation
```

Enables radio-down-mitigation.

```
no rrm radio-down-mitigation
```

Disables radio-down-mitigation.

rrm save baseline_name description

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
rrm save baseline_name <name> description <description>
```

Stores a baseline.

rrm scheduled analysis daily

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`rrm scheduled analysis daily <time>`

Sets the auto-channel periodically's settings.

rrm scheduled analysis day-of-month

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`rrm scheduled analysis day-of-month <day> <time>`

Sets the auto-channel periodically's settings.

rrm scheduled analysis day-of-week

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`rrm scheduled analysis day-of-week <day> <time>`

Sets the auto-channel periodically's settings.

show rrm ap-load-balancing

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show rrm ap-load-balancing`

Displays the ap-load-balancing config.

show rrm apply plan automatically

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show rrm apply plan automatically`

Displays the apply plan automatically config.

show rrm auto-channel

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show rrm auto-channel`

Displays the auto-channel config.

show rrm auto-power

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show rrm auto-power`

Displays the auto-power config.

show rrm baseline

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show rrm baseline`

Displays all the baselines slots and their contents.

show rrm baseline slot

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show rrm baseline slot <id>`

Displays the baseline details.

show rrm radio-down-mitigation

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show rrm radio-down-mitigation`

Displays the radio-down-mitigation config.

admin local authentication

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`admin local authentication`

Sets the authentication of manager logins to occur using the local account.

`no admin local authentication`

Disables administrator authentication via the local account.

admin radius authentication

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`admin radius authentication`

Sets the authentication of manager logins to occur using RADIUS.

`no admin radius authentication`

Disables manager authentication via RADIUS.

admin radius authentication server

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`admin radius authentication server <name>`

Sets the authentication of manager logins to use the specified RADIUS server profile.

ip http port

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`ip http port <number>`

Sets the port number to use for HTTP access to the AP.

Parameters

<number> Port number. Range: 1 - 65535.

Description

HTTP connections made to this port are met with a warning and the browser is redirected to the secure web server port. By default. this parameter is set to port 80.

ip https port

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`ip https port <number>`

Sets the port number used for HTTPS access to the AP.

Parameters

<number> Port number. Range: 1 - 65535.

snmp-server trap certificate-expired

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server trap certificate-expired`

Send a trap when the SSL certificate has expired. A trap is sent every 12 hours.

`no snmp-server trap certificate-expired`

Do not send a trap when the SSL certificate has expired.

snmp-server trap certificate-expires-soon

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server trap certificate-expires-soon`

Send a trap when the SSL certificate is about to expire. A trap is sent every 12 hours starting 15 days before the certificate expires.

`no snmp-server trap certificate-expires-soon`

Do not send a trap when the SSL certificate is about to expire.

snmp-server trap web-fail

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server trap web-fail`

Send a trap each time an manager login is refused.

`no snmp-server trap web-fail`

Do not send a trap each time an manager login is refused.

snmp-server trap web-login

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server trap web-login`

Send a trap each time an manager login is accepted.

`no snmp-server trap web-login`

Do not send a trap each time an manager login is accepted.

snmp-server trap web-logout

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server trap web-logout`

Send a trap each time an manager logs out.

`no snmp-server trap web-logout`

Do not send a trap each time an manager logs out.

username

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`username <user> <password>`

Changes the current manager local username and password.

Parameters

<user>	New manager username.
<password>	New manager password. New password must be between 6 and 16 printable characters in length and contain at least 4 different characters. Passwords are case sensitive. Space characters and double quotes cannot be used. Passwords must also conform to the Security policy that is in effect.

web admin kickout

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`web admin kickout`

Enables a new manager login to terminate an existing manager session.

`no web admin kickout`

Stops a new manager from logging in until an existing manager logs out.

web allow

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`web allow <ip address>/<mask>`

Adds an address to the list of hosts that can access the management tool.

`no web allow <ip address>/<mask>`

Removes the specified address from the list of hosts that can access the management tool.

Parameters

<ip address>	IP address.
</mask>	Subnet mask in CIDR format. Specifies the number of bits in the mask.

web access port-1

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`web access port-1`

Enables access to the management tool via Port 2.

```
no web access port-1
```

Blocks access to the management tool via Port 2.

web access port-2

Supported on: MSM422 MSM320 MSM310

```
web access port-2
```

Enables access to the management tool via Port 1.

```
no web access port-2
```

Blocks access to the management tool via Port 1.

web access wireless

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
web access wireless
```

Enables access to the management tool via the wireless port.

```
no web access wireless
```

Blocks access to the management tool via the wireless port.

web access interface vlan

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
web access interface vlan <name>
```

Enables access to the management tool via the specified VLAN.

```
no web access interface vlan <name>
```

Removes access to the management tool for the specified VLAN.

web access interface gre

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
web access interface gre <name>
```

Enables access to the management tool via the specified GRE tunnel.

```
no web access interface gre <name>
```

Disables access to the management tool via the specified GRE tunnel.

web access local mesh

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
web access local mesh <name>
```

Enables access to the management tool via the specified local mesh link.

```
no web access local mesh <name>
```

Disables access to the management tool via the specified local mesh link.

world-mode dot11 country code

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`world-mode dot11 country code <code>`

Specifies the country in which the AP is operating.

Parameters

<code>	An ISO3166 three-letter country code.

console authentication

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`console authentication (always-local | like-web)`

Select how the CLI user gets authenticated.

clock auto adjust dst

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`clock auto adjust dst`

Automatically adjust clock for daylight savings changes.

`no clock auto adjust dst`

Do not automatically adjust clock for daylight savings changes.

clock

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`clock <time> <date>`

Sets the system time and date.

Parameters

<time>	Time as hh:mm:ss. For example: 15:44:00.
<date>	Date as dd mmm yyyy. For example: 17 Oct 2004

clock timezone

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`clock timezone <gmtdiff>`

Sets the time zone in which the AP is operating.

Parameters

<gmtdiff>	Offset from GMT as follows: +-HOUR:MIN. For example, Eastern Standard time is -5:00.

clock use custom dst rules

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`clock use custom dst rules`

Use custom DST rules instead of default ones.

```
no clock use custom dst rules
```

Do not use custom DST rules, use default ones.

ntp protocol

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
ntp protocol (ntp | sntp)
```

Sets the network time protocol to use.

ntp server

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
ntp server
```

Enable this option to have the AP periodically contact a network time server to update its internal clock.

```
no ntp server
```

Disables the use of a network time server.

clock custom dst begins

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
clock custom dst begins <day> <weekday> <month> <time>
```

Sets the date and time at which daylight savings time begins.

Parameters

<day>	Day of the month. Range 1 - 31.
<weekday>	Weekday. Valid values are: "sun", "mon", "tue", "wed", "thu", "fri", "sat".
<month>	Month. Valid values are: "jan", "feb", "mar", "apr", "may", "jun", "jul", "aug", "sep", "oct", "nov", "dec".
<time>	Time as hh:mm[:ss]. For example: 15:44:00.

If a parameter does not apply to the configured DST rule format, simply set this parameter to any valid value.

clock custom dst begins format

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
clock custom dst begins format (<fixed>|<last-weekday>|<following-
date>|<preceding-date>
```

Set the format of the custom DST rule.

Parameters

<fixed>	Rule of the form: The [Day]th of [Month] at [Time].
<last-weekday>	Rule of the form: The last [Weekday] of [Month] at [Time].
<following-date>	Rule of the form: The first [Weekday] on or after the [Day]th of [Month] at [Time].
<preceding-date>	Rule of the form: The first [Weekday] on or before the [Day]th of [Month] at [Time].

clock custom dst ends

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`clock custom dst ends <day> <weekday> <month> <time>`

Set the date and time at which daylight savings time ends.

Parameters

<day>	Day of the month. Range 1 - 31.
<weekday>	Weekday. Valid values are: "sun", "mon", "tue", "wed", "thu", "fri", "sat".
<month>	Month. Valid values are: "jan", "feb", "mar", "apr", "may", "jun", "jul", "aug", "sep", "oct", "nov", "dec".
<time>	Time as hh:mm[:ss]. For example: 15:44:00.

If a parameter does not apply to the configured DST rule format, simply set this parameter to any valid value.

clock custom dst ends format

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`clock custom dst ends format (<fixed>|<last-weekday>|<following-date>|<preceding-date>`

Set the format of the custom DST rule.

Parameters

<fixed>	Rule of the form: The [Day]th of [Month] at [Time].
<last-weekday>	Rule of the form: The last [Weekday] of [Month] at [Time].
<following-date>	Rule of the form: The first [Weekday] on or after the [Day]th of [Month] at [Time].
<preceding-date>	Rule of the form: The first [Weekday] on or before the [Day]th of [Month] at [Time].

ntp server

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`ntp server <index><host>`

Adds the specified network time server.

Parameters

<index>	Index of the time server in the list. Up to 20 time servers are supported. Time servers are checked in the order that they appear in the list.
<host>	DNS name or IP address of the time server.

ntp server failure trap

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`ntp server failure trap`

Send a trap each time a time server synchronization failed.

`no ntp server failure trap`

Do not send a trap each time a time server synchronization failed.

config-update automatic

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
config-update automatic
```

Enables scheduled configuration restore or backup.

```
no config-update automatic
```

Disables scheduled configuration restore or backup.

The AP can automatically download the configuration file from a local or remote URL (restore). It is also possible to upload the current configuration to a given URL (backup). Theses operations can be done at preset times.

config-update operation

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
config-update operation (restore | backup)
```

Sets the type of operation that will take place at the preset time.

config-update start

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
config-update start
```

Start a config update (restore or backup operation) now. Will reboot on restore success only. By default the operation is a restore.

config-update time

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
config-update time <time>
```

Sets the time of day when the scheduled configuration operation (backup or restore) will take place.

Parameters

<time>	Time as hh:mm:ss. For example: 15:44:00.

config-update uri

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
config-update uri <uri>
```

Sets the URI where the AP will download or upload the configuration file.

```
no config-update uri
```

Clears the configuration file URI.

config-update weekday

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
config-update weekday (everyday | monday | tuesday | wednesday | thursday |
friday | saturday | sunday)
```

Sets the day when the scheduled configuration operation (backup or restore) will take place.

snmp-server trap config-change

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap config-change
```

Send a trap whenever the configuration is changed.

```
no snmp-server trap config-change
```

Do not send this trap.

snmp-server trap config-update

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap config-update
```

Send a trap whenever the firmware is updated.

```
no snmp-server trap config-update
```

Do not send this trap.

logging destination

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
logging destination <name>
```

Creates a new remote destination for syslog.

```
no logging destination <name>
```

Deletes the specified syslog destination.

Parameters

<name>	Name of syslog destination. Use the name "local" to edit your local log file settings. Any other name will edit/create a remote log destination.

snmp-server trap syslog-severity

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap syslog-severity
```

Set the severity level of syslog messages that will trigger a trap.

```
no snmp-server trap syslog-severity
```

Do not send this trap.

snmp-server

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server
```

Enables the SNMP agent.

```
no snmp-server
```

Disables the SNMP agent.

snmp-server allow

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server allow <ip address>/<mask>`

Adds a host to the list of IP address from which access to the SNMP interface is permitted.

`no snmp-server allow <ip address>/<mask>`

Removes a host from the list of IP address from which access to the SNMP interface is permitted.

Parameters

<address>	IP address.
</mask>	Subnet mask in CIDR format. Specifies the number of bits in the mask.

snmp-server chassis-id

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server chassis-id <name>`

Specifies a name to identify the AP. By default, this is set to the serial number of the AP.

`no snmp-server chassis-id`

Deletes the system name.

snmp-server contact

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server contact <email>`

Specifies contact information.

`no snmp-server contact`

Deletes contact information.

Parameters

<email>	Email address.

snmp-server heartbeat period

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server heartbeat period <seconds>`

Sets the interval between sending heartbeat traps.

Parameters

<seconds>	Heartbeat interval in seconds.

snmp-server location

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server location <name>`

Specifies the location where the AP is installed.

`no snmp-server location`

Deletes location information.

Parameters

<name> Location where the AP is installed.

snmp-server port

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server port <port number>`

Sets the port the AP will use to respond to SNMP requests.

Parameters

<port number> SNMP port number. Range 1 - 65535.

snmp-server readonly

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server readonly <community>`

Sets the read-only community string.

`no snmp-server readonly`

Deletes the read-only community string.

snmp-server readwrite

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server readwrite <community>`

Sets the read-write community string.

`no snmp-server readwrite`

Deletes the read-write community string.

snmp-server trap

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server trap`

Enables support for SNMP traps.

`no snmp-server trap`

Disables support for SNMP traps.

snmp-server trap community

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server trap community <str>`

Sets the password required by the remote host that will receive the trap.

`no snmp-server trap community`

Deletes the password required by the remote host that will receive the trap.

snmp-server trap heartbeat

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap heartbeat
```

Enables sending of heartbeat traps at regular intervals.

```
no snmp-server trap heartbeat
```

Disables sending of heartbeat traps at regular intervals.

snmp-server trap link-state

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap link-state
```

Send a trap when the link state changes on any interface.

```
no snmp-server trap link-state
```

Do not send this trap.

snmp-server trap snmp-authentication

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap snmp-authentication
```

Send a trap each time an SNMP request fails to supply the correct community name.

```
no snmp-server trap snmp-authentication
```

Do not send a trap each time an SNMP request fails to supply the correct community name.

snmp-server version 1

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server version 1
```

Enables support for SNMP version 1.

```
no snmp-server version 1
```

Disables support for SNMP version 1.

snmp-server version 2c

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server version 2c
```

Enables support for SNMP version 2c.

```
no snmp-server version 2c
```

Disables support for SNMP version 2c.

snmp-server version 3

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server version 3
```

Enables support for SNMP version 3.

`no snmp-server version 3`

Disables support for SNMP version 3.

snmp-server access interface vlan

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server access interface vlan <name>`

Enables access to SNMP via the specified VLAN.

`no snmp-server access interface vlan <name>`

Disables access to SNMP via the specified VLAN.

Parameters

<name> Specifies the name of the VLAN.

snmp-server access local mesh

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server access local mesh <profile>`

Enables access to SNMP via the specified local mesh.

`no snmp-server access local mesh <profile>`

Enables access to SNMP via the specified local mesh.

snmp-server access interface gre

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server access interface gre <name>`

Enables access to SNMP via the specified GRE tunnel.

`no snmp-server access interface gre <name>`

Removes access to SNMP via the specified GRE tunnel.

snmp-server access port-1

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server access port-1`

Enables SNMP access on the downstream port.

`no snmp-server access port-1`

Blocks SNMP access on the downstream port.

snmp-server access wireless

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server access wireless`

Enables SNMP access on the wireless port.

`no snmp-server access wireless`

Blocks SNMP access on the wireless port.

snmp-server access port-2

Supported on: MSM422 MSM320 MSM310

```
snmp-server access port-2
```

Enables SNMP access on the upstream port.

```
no snmp-server access port-2
```

Blocks SNMP access on the upstream port.

show snmp user list

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show snmp user list
```

Displays all SNMP users. Description Displays all SNMP users.

snmp-server user

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server user <name>
```

Creates a new SNMP user or switches to the SNMP user context with the specified user name.

```
no snmp-server user <name>
```

Deletes the specified SNMP user.

snmp-server notification receiver

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server notification receiver <host>
```

Creates a new SNMP notification receiver or switches to the SNMP notification receiver context with the specified IP address.

```
no snmp-server notification receiver <host>
```

Deletes the specified SNMP notification receiver.

events snmp-notifications

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
events snmp-notifications
```

Enables SNMP notifications for events.

```
no events snmp-notifications
```

Disables SNMP notifications for events.

events snmp-notifications category

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
events snmp-notifications category <category>
```

Enables SNMP notifications for the specified category type.

`no events snmp-notifications category <category>`

Disables SNMP notifications for the specified event type.

events snmp-notifications type

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`events snmp-notifications type <type>`

Enables SNMP notifications for the specified event type.

`no events snmp-notifications type <type>`

Disables SNMP notifications for the specified event type.

show events snmp-notifications

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show events snmp-notifications`

Displays SNMP notification settings for events.

soap-server

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`soap-server`

Enables the SOAP server.

`no soap-server`

Disables the SOAP server.

soap-server access interface vlan

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`soap-server access interface vlan <name>`

Enables access to the SOAP server via the specified VLAN.

`no soap-server access interface vlan <name>`

Disables access to the SOAP server via specified VLAN.

soap-server allow

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`soap-server allow <ip address>/<mask>`

Adds a host to the list of IP addresses from which access to the SOAP interface is permitted.

`no soap-server allow <ip address>/<mask>`

Removes a host from the list of IP addresses from which access to the SOAP interface is permitted.

Parameters

<address>	IP address.
</mask>	Subnet mask in CIDR format. Specifies the number of bits in the mask.

soap-server fips ciphersuites

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`soap-server fips ciphersuites`

Only accept connections from FIPS 104-2 compiant browsers.

`no soap-server fips ciphersuites`

Disables FIPS compliance.

soap-server http authentication

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`soap-server http authentication`

Enables HTTP authentication on the SOAP server.

`no soap-server http authentication`

Disables HTTP authentication on the SOAP server.

soap-server http authentication password

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`soap-server http authentication password <password>`

Sets the SOAP server HTTP authentication password.

soap-server http authentication username

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`soap-server http authentication username <username>`

Sets the SOAP server HTTP authentication username.

soap-server port

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`soap-server port <port number>`

Sets the port the AP will use to respond to SOAP requests.

Parameters

<port number> SOAP port number. Range 1 - 65535.

soap-server ssl

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`soap-server ssl`

Enables SSL support on the SOAP server.

`no soap-server ssl`

Disables SSL support on the SOAP server.

soap-server ssl version

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
soap-server ssl version (sslv3 | tlsv1)
```

Selects the specified SSL/TLS version on the SOAP server.

soap-server ssl with client certificate

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
soap-server ssl with client certificate
```

Enables the use of a client certificate with SSL on the SOAP server.

```
no soap-server ssl with client certificate
```

Disables the use of a client certificate with SSL on the SOAP server.

soap-server access interface gre

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
soap-server access interface gre <name>
```

Enables access to the SOAP server via the specified GRE tunnel.

```
no soap-server access interface gre <name>
```

Disables access to the SOAP server via the specified GRE tunnel.

soap-server access port-1

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
soap-server access port-1
```

Enables access to the SOAP server on the downstream port.

```
no soap-server access port-1
```

Blocks access to the SOAP server on the downstream port.

soap-server access wireless

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
soap-server access wireless
```

Enables access to the SOAP server on the wireless port.

```
no soap-server access wireless
```

Blocks access to the SOAP server on the wireless port.

soap-server access port-2

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
soap-server access port-2
```

Enables access to the SOAP server on the upstream port.

```
no soap-server access port-2
```

Blocks access to the SOAP server on the upstream port.

soap-server access local mesh

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`soap-server access local mesh <profile>`

Enables access to the management tool via the specified local mesh link.

`no soap-server access local mesh <profile>`

Disables access to the management tool via the specified local mesh link.

snmp-server trap low-snr

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server trap low-snr`

Send a trap when the average signal to noise ratio on a VAP (VSC) exceeds a specified level.

`no snmp-server trap low-snr`

Do not send this trap.

snmp-server trap low-snr interval

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server trap low-snr interval <number>`

Sets the interval at which the average SNR level is checked for each VAP (VSC).

snmp-server trap low-snr level

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server trap low-snr level <number>`

Sets the SNR level that will trigger a trap.

snmp-server trap new-association

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server trap new-association`

Send trap on when a new wireless client station associates with any VAP (VSC).

`no snmp-server trap new-association`

Do not send this trap.

snmp-server trap new-association interval

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server trap new-association interval <number>`

Interval, in minutes, between notifications.

snmp-server trap vpn-connection

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap vpn-connection
```

Send a trap when a user establishes a VPN connection with the AP.

```
no snmp-server trap vpn-connection
```

Do not send this trap.

snmp-server trap wireless-association-fail

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap wireless-association-fail
```

Send a trap when a wireless client station fails to associate with the AP.

```
no snmp-server trap wireless-association-fail
```

Do not send this trap.

snmp-server trap wireless-association-success

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap wireless-association-success
```

Send a trap when a wireless client station successfully associates with the AP.

```
no snmp-server trap wireless-association-success
```

Do not send this trap.

snmp-server trap wireless-authentication-fail

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap wireless-authentication-fail
```

Send a trap when a wireless client station fails to authenticate.

```
no snmp-server trap wireless-authentication-fail
```

Do not send this trap.

snmp-server trap wireless-authentication-success

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap wireless-authentication-success
```

Send a trap when a wireless client station is successfully associated.

```
no snmp-server trap wireless-authentication-success
```

Do not send this trap.

snmp-server trap wireless-deauthentication-fail

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap wireless-deauthentication-fail
```

Send a trap when a wireless client station fails to deauthenticate from the AP.

```
no snmp-server trap wireless-deauthentication-fail
```

Do not send this trap.

snmp-server trap wireless-deauthentication-success

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap wireless-deauthentication-success
```

Send a trap when a wireless client station deauthenticates from the AP.

```
no snmp-server trap wireless-deauthentication-success
```

Do not send this trap.

snmp-server trap wireless-disassociation-fail

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap wireless-disassociation-fail
```

Send a trap when a wireless client station fails to disassociate from the AP.

```
no snmp-server trap wireless-disassociation-fail
```

Do not send this trap.

snmp-server trap wireless-disassociation-success

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap wireless-disassociation-success
```

Send a trap when a wireless client station disassociates from the AP.

```
no snmp-server trap wireless-disassociation-success
```

Do not send this trap.

snmp-server trap wireless-reassociation-fail

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap wireless-reassociation-fail
```

Send a trap when a wireless client station fails to reassociate with the AP.

```
no snmp-server trap wireless-reassociation-fail
```

Do not send this trap.

snmp-server trap wireless-reassociation-success

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap wireless-reassociation-success
```

Send a trap when a wireless client station reassociates with the AP.

```
no snmp-server trap wireless-reassociation-success
```

Do not send this trap.

snmp-server trap syslog-matches

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap syslog-matches
```

Send a trap when syslog messages matches a specified regular expression.

```
no snmp-server trap syslog-matches
```

Do not send this trap.

snmp-server trap syslog-matches regex

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap syslog-matches regex <regex>
```

Sets the regular expression used to match the syslog messages.

snmp-server trap syslog-severity level

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap syslog-severity level (debug | info | notice | warning | error
| critical | alert | emergency)
```

Set the severity level of syslog messages that will trigger a trap.

snmp-server trap network-trace

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap network-trace
```

Send a trap when a network trace is started or stopped.

```
no snmp-server trap network-trace
```

Do not send this trap.

firmware-update start normalforced

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
firmware-update start [normal][forced]
```

Upload the firmware based on a specified URI. This URI can be set with the command: firmware-update uri.

firmware-update time

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
firmware-update time <time>
```

Sets the time of day the scheduled firmware upgrade will take place.

Parameters

<time>	Time as hh:mm:ss. For example: 15:44:00.

firmware-update uri

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`firmware-update uri <uri>`

Sets the URI where the AP will retrieve new firmware.

`no firmware-update uri`

Clears the firmware URI.

firmware-update validate

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`firmware-update validate`

Validates the firmware signature without loading it on the AP. The firmware is read from a specified URI that can be set by the command firmware-update uri.

firmware-update weekday

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`firmware-update weekday (everyday | monday | tuesday | wednesday | thursday | friday | saturday | sunday)`

Sets the day when the scheduled firmware upgrade will take place.

snmp-server trap firmware-update

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server trap firmware-update`

Send a trap on firmware update.

`no snmp-server trap firmware-update`

Do not send a trap on firmware update.

firmware-update method

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`firmware-update method (preset-time | next-reboot)`

Enables scheduled firmware upgrades.

The AP can automatically retrieve and install firmware from a local or remote URL at preset times. By placing AP firmware on a web or ftp server, you can automate the update process for multiple units.

When the update process is triggered, the AP retrieves the first 2K of the firmware file to determine if it is different from the active version. If different, the entire firmware file is then downloaded and installed.

(Different means older or newer. This enables you to return to a previous firmware version if required).

Configuration settings are preserved during the update unless stated otherwise in the release notes for the firmware. However, all active connections will be terminated. Customers will have to log in again after the AP restarts

access-controller restrict location

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`access-controller restrict location (gateway | mac <mac address>)`

Identifies the access controller the AP will communicate with.

Parameters

`gateway`	Use the default gateway as the access controller.
`mac`	Use the specified MAC address as the gateway.
`<mac address>`	MAC address. Specify 6 pairs of hexadecimal numbers separated by colons, with the values a to f in lowercase. For example: 00:00:00:0a:0f:01

service-sensor

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`service-sensor`

Enables the service sensor. The service sensor polls a target device at present intervals. If the device does not respond, the radio is shut off.

`no service-sensor`

Disables the service sensor.

service-sensor

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`service-sensor (gateway | address<ip address>)`

Sets the target device the service sensor will poll. This can be the default gateway or a specific IP address.

`no service-sensor`

Disables the service sensor.

Parameters

`gateway`	The service sensor will poll the default gateway.
`address`	The service sensor will poll another device.
`<ip address>`	IP address of the other device. For example: 192.168.10.10

service-sensor poll

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`service-sensor poll <seconds>`

Sets the poll frequency.

Parameters

`<seconds>`	Poll frequency. Range: 1 - 3600 seconds.

service-sensor retry

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`service-sensor retry <retries>`

Specify how many retries the service sensor will attempt when polling the target device.

When the retry limit is reached, the radio on the AP is turned off.

Parameters

<retires>	Number of retries. Range: 0 - 100.

service-sensor timeout

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`service-sensor timeout <seconds>`

Sets how long the service sensor will wait for a response to a poll before timing out.

Parameters

<seconds>	Length of timeout. Range: 1 - 5 seconds.

ip name-server

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`ip name-server <primary> [<secondary>] [<third>]`

Sets the primary and secondary DNS servers overriding dynamically assigned ones.

Parameters

<primary>	IP address of the primary DNS server.
<secondary>	IP address of the secondary DNS server.
<third>	IP address of the third DNS server.

ip name-server cache

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`ip name-server cache`

Enables the DNS cache.

`no ip name-server cache`

Disables the DNS cache.

Once a host name has been successfully resolved to an IP address by a remote DNS server, it is stored in the cache. This speeds up network performance, as the remote DNS server now does not have to be queried for subsequent requests for this host.

The entry stays in the cache until:

- an error occurs when connecting to the remote host
- the time to live (TTL) of the DNS request expires
- the AP is restarted

ip name-server dynamic

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
ip name-server dynamic
```

Enables dynamic assignment of DNS servers.

```
no ip name-server dynamic
```

Disables dynamic DNS assignment.

ip name-server interception

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
ip name-server interception
```

Intercept all DNS requests from users and relay them to configured servers.

```
no ip name-server interception
```

Process DNS requests addressed to this device only.

ip name-server switch-on-servfail

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
ip name-server switch-on-servfail
```

Switch to next server when server failure is received.

```
no ip name-server switch-on-servfail
```

Do not switch to next server when server failure is received.

ip name-server switch-over

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
ip name-server switch-over
```

Switch over to primary when active.

```
no ip name-server switch-over
```

Do not switch over to primary when active.

snmp-server trap unauthorized-ap

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
snmp-server trap unauthorized-ap
```

Send a trap when a rogue access point is detected.

```
no snmp-server trap unauthorized-ap
```

Do not send this trap.

snmp-server trap unauthorized-ap interval

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snmp-server trap unauthorized-ap interval <number>`

If set to 0, then traps are only sent when a rogue access point is detected. If set to >0, the entire list of rogue access points is sent each time the interval expires.

wireless-scan

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`wireless-scan`

Enables wireless neighborhood scanning.

`no wireless-scan`

Disables wireless neighborhood scanning.

wireless-scan period

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`wireless-scan period <seconds>`

Specifies the interval between wireless neighborhood scans.

Parameters

<seconds>	Scanning interval. Range: 10 - 600 seconds.

wireless-scan url

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`wireless-scan url <location>`

Sets the URL of the file that contains a list of all authorized access points.

`no wireless-scan url`

Deletes the URL of the file that contains a list of all authorized access points.

The format of this file is XML. Each entry in the file is composed of two items: MAC address and SSID. Each entry should appear on a new line.

For example:

00:00:00:07:f5:11 "AP_1"

00:00:00:07:f5:23 "AP_2"

00:00:00:07:f5:12 "AP_3"

access controller shared secret

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`access controller shared secret <secret>`

Sets the shared secret used to communicate with the controller.

`no access controller shared secret`

Sets the shared secret used to communicate with the access controller.

The controller will only accept authentication/location-aware information from HP APs that have a matching shared secret to its own.

radius-server profile

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`radius-server profile <name>`

Creates a new RADIUS profile or switches to the RADIUS context with the specified profile name.

`no radius-server profile <name>`

Deletes the specified RADIUS profile.

ip-qos profile

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`ip-qos profile <name>`

Creates a new IP QoS profile or switches to the IP QoS context with the specified profile name.

`no ip-qos profile <name>`

Deletes the specified IP QoS profile.

dot11 igmp snooping-helper

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`dot11 igmp snooping-helper`

Enables IGMP snooping helpers which ensure that the AP correctly delivers multicast packets to roaming client stations that are part of a multicast group.

`no dot11 igmp snooping-helper`

Disables IGMP snooping helpers.

ipv6 ra conversion

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`ipv6 ra conversion`

Enables IPv6 Router Advertisement (RA) multicast conversion which ensures that the AP properly assigns IP addresses to IPv6 clients according to their VLAN.

`no ipv6 ra conversion`

Disables IPv6 Router Advertisement (RA) multicast conversion.

show ipv6 ra conversion

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show ipv6 ra conversion`

Displays the IPv6 RA conversion state.

lldp config

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`lldp config <port>`

Edit LLPD port specific options.

lldp dynamic-name

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`lldp dynamic-name`

Enables the LLDP dynamic naming feature.

`no lldp dynamic-name`

Disables the LLDP dynamic naming feature.

lldp dynamic-name refresh-time

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`lldp dynamic-name refresh-time <time>`

Sets the interval at which dynamic names for controlled APs are updated.

lldp dynamic-name user-string

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`lldp dynamic-name user-string <name>`

Specifies the text to use for the dynamic name.

You can use regular text in combination with placeholders to create the name. Placeholders are automatically expanded each time the name is regenerated.

Placeholders

`%RN`	System name of the neighboring device to which the port is connected, obtained via the System Name TLV. Since this is an optional TLV, if it is not available, the Chassis ID TLV is used instead.
`%RP`	Port description of the port on the neighboring device to which the local port is connected, obtained via the Port Description TLV. Since this is an optional TLV, if it is not available, the Port ID TLV is used instead.
`%SN`	Controller's serial number.
`%IP`	Controller's IP address. An IP address can require up to 15 characters (nnn.nnn.nnn.nnn).

lldp fast-start-count

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`lldp fast-start-count <count>`

After an MED LLDPDU is received, this timer is started and the agent sends one MED LLDPDU to the MED device each second as it counts down.

lldp holdtime-multiplier

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`lldp holdtime-multiplier <hold>`

Sets the hold time multiplier for LLDPDU transmissions.

The value of Multiplier is multiplied by the refresh-interval to define Time to live. Time to live indicates the length of time that neighbors will consider LLDP information sent by this agent to be valid.

lldp med-location civic-address-element

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`lldp med-location civic-address-element <caelement>`

Adds a Civic Address Element.

lldp med-location elin-addr

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`lldp med-location elin-addr <elin>`

Sets the Emergency Call Services ELIN as described, for example, by NENA TID 07-501.

lldp refresh-interval

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`lldp refresh-interval <time>`

Sets the interval (in seconds) at which local LLDP information is updated and TLVs are sent to neighboring network devices.

lldp run

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`lldp run`

Enables the LLDP Agent.

`no lldp run`

Disables the LLDP Agent.

lldp use-friendly-name-on-port-desc

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`lldp use-friendly-name-on-port-desc`

Enables LLDP to send the interfaces friendly name on the port description TLV

`no lldp use-friendly-name-on-port-desc`

Makes LLDP send the internal interface name on the port description TLV

show lldp config

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show lldp config [<port>]`

Displays LLDP configuration settings.

show lldp info local-device

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show lldp info local-device [<port>]`

Displays LLDP configuration settings.

show lldp info remote-device

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show lldp info remote-device [<port>]`

Displays LLDP configuration settings.

show lldp stats

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show lldp stats [<port>]`

Displays LLDP statistics for all ports or a specific port .

lldp local-mesh

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`lldp local-mesh`

Enable LLDP support on local mesh links.

`no lldp local-mesh`

Disable LLDP support on local mesh links.

discovery protocol

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`discovery protocol`

Enables broadcast of HP device information for interoperability with CDP-enabled networking hardware.

`no discovery protocol`

Disable broadcast of HP device information.

discovery protocol device-id

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`discovery protocol device-id <name>`

Overwrite the device-id field of information packets (the AP serial number is not used).

`no discovery protocol device-id`

Do not overwrite the device-id field of information packets (use the AP serial number).

bridge priority

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`bridge priority <number>`

Sets the bridge priority for the spanning tree.

The spanning tree uses the bridge ID to elect the root bridge and the designated bridges. The bridge ID is built with the MAC address of the bridge and the bridge priority. The first 2 most significant bytes are the bridge priority and the next 6 bytes are the MAC address. To control which bridge will become the root bridge, you can configure the bridge priority parameter on the bridges. The root will be the bridge with the lowest bridge ID. The Bridge priority has a valid range of 0 to 0xFFFF. The default value is the middle value: 0x8000.

bridge protocol ieee

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`bridge protocol ieee`

Enables the bridge spanning tree protocol to prevent undesirable loops from occurring in the network that may result in decreased throughput.

`no bridge protocol ieee`

Disables the bridge spanning tree protocol.

bridge protocol ieee vlan

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`bridge protocol ieee vlan`

Enable the bridge spanning tree protocol for VLANs.

`no bridge protocol ieee vlan`

Disables the bridge spanning tree protocol for VLANs.

ip route gateway

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`ip route gateway<destination>/<mask> <gateway> <[metric]>`

Adds a static route.

`no ip route gateway <destination>/<mask> <gateway> <[metric]>`

Removes the specified static route.

Parameters

<destination>	Traffic addressed to this IP address will be routed.
<mask>	Indicates the number of bits in the destination address that is checked for a match.
<gateway>	Indicates the IP address of the gateway the AP will forward routed traffic to. The gateway address must be on the same subnet as one of the available interfaces (Internet port or LAN port).

<metrix> Indicates the priority of a route. If two routes exist for a destination address then the AP chooses the one with the lower metric.

dot1x radius accounting start delay

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`802.1x RADIUS accounting start delay <seconds>`

Sets the 802.1X RADIUS accounting start delay.

Parameters

<seconds> delay in seconds.

dot1x reauth

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`dot1x reauth`

Enable this option to force 802.1X client stations to reauthenticate.

`no dot1x reauth`

Disables 802.1X reauthentication.

dot1x reauth period

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`dot1x reauth period (15m | 30m | 1h | 2h | 4h | 8h | 12h)`

Sets the 802.1X reauthentication interval. Client stations must reauthenticate when this interval expires.

dot1x reauth terminate

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`dot1x reauth terminate`

Enable this option to allow client stations to remain connected during re-authentication. Client traffic is blocked only when re-authentication fails.

`no dot1x reauth terminate`

Disabled this option to block client traffic during re-authentication and only activate traffic again if authentication succeeds.

dot1x supplicant timeout

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`dot1x supplicant timeout <number>`

Sets the 802.1X supplicant time-out.

Parameters

<seconds> time-out in seconds.

dynamic key

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
dynamic key
```

Enables dynamic key support for 802.1X and WPA.

```
no dynamic key
```

Disables dynamic key support for 802.1X and WPA.

dynamic key interval

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
dynamic key interval (5m | 10m | 15m | 30m | 1h | 2h | 4h | 8h | 12h)
```

Specifies how often (in minutes or hours) that the group (broadcast) key is changed for 802.1X and WPA.

add wireless ip-qos profile

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
add wireless ip-qos profile <name>
```

Adds the specified profile to the list of IP QoS profiles in effect for all local mesh links.

<profile-name> Name of an existing IP QoS profile.

delete wireless ip-qos profile all

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
delete wireless ip-qos profile all
```

Clears the list of IP QoS profiles currently in effect for all local mesh links.

delete wireless ip-qos profile

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
delete wireless ip-qos profile <name>
```

Removes the specified profile from the list of IP QoS profiles in effect for all local mesh links.

<profile-name> Name of an existing IP QoS profile currently in the profile list for all local mesh links.

wireless link qos

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
wireless link qos (disabled | 802.1p | wme | very-high | high | normal | low |
tos | diffsrv)
```

Sets the local mesh QoS policy.

sensor discovery mode

Supported on: MSM320

```
sensor discovery mode (id | ip)
```

Sets the method the AP will use to communicate with the RF Manager Server.

Parameters

`id`	Connect using the Server ID of the RF Manager Server.
`ip`	Connect using the IP address or hostname of the RF Manager Server.

Description

For these methods to work, the following must be true:

- The AP must be able to reach the RF Manager Server via a network connected to port 1 or port 2. For example, you should be able to ping the RF Manager Server's IP address from the AP.
- If there are any firewalls between the AP and the RF Manager Server, then TCP and UDP ports 3851 must be open bi-directionally.
- If using the hostname option, an entry must be created on the network DNS server that points to the IP address of the RF Manager Server.
- If using the Server ID option, support for multicast traffic must be enabled on all routers and switches connected between the AP and the RF Manager Server.

sensor network detector

Supported on: MSM320

```
sensor network detector
```

Enable the Network Detector.

```
no sensor network detector
```

Disable the Network Detector.

sensor server id

Supported on: MSM320

```
sensor server id <id>
```

Sets the server ID of the RF Manager Server to connect to.

Parameters

`ID`	Specify the Server ID of the RF Manager Server to connect to. Set the Server ID to 0 to have the AP send a discovery request to all active HP RF Manager Servers. The AP will connect to the first server that responds to the discovery request.

sensor server name

Supported on: MSM320

```
sensor server name <name>
```

Sets the IP address or hostname of the RF Manager Server to connect to.

Parameters

`Name`	Specify the IP address of the RF Manager Server or its hostname. If a hostname is specified, the AP must be able to resolve it via DNS,Äîthat is, an entry must be created on the network DNS server that points to the IP address of the RF Manager Server.

config-version

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`config-version <string>`

Sets a string to identify the user configuration version.

mac lockout list

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`mac lockout list <maclist>`

Selects the specified MAC list to use for MAC lockout.

show mac lockout

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`show mac lockout`

Displays all entries in the MAC lockout list.

supplicant 802dot1x

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`supplicant 802dot1x`

Enables the 802.1X supplicant.

`no supplicant 802dot1x`

Disables 802.1X supplicant.

supplicant anonymous identity

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`supplicant anonymous identity <identitiy>`

Sets the 802.1X supplicant anonymous identity.

supplicant eap

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`supplicant eap (peap0 | peap1 | ttls) <user> <password>`

Changes the EAP configuration.

reset button enable

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
reset button enable
```

Enable reset button.

```
no reset button enable
```

Disable reset button.

led operating mode

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
led operating mode (normal | quiet | awake)
```

Sets the LEDs operating mode.

Port 2 port interface context

Path: View > Enable > Config > Port 2 port interface

Use this context to configure the Port 2 port.

end

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
end
```

Switches to parent context.

duplex

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
duplex (auto | half | full)
```

Sets the duplex mode on Port 2.

Parameters

`auto`	Lets the AP automatically set duplex mode based on the type of equipment it is connected to.
`half`	Forces the port to operate in half duplex mode.
`full`	Forces the port to operate in full duplex mode.

speed

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
speed (auto | 10 | 100)
```

Sets the speed of the Port 2 port.

Parameters

`auto`	Lets the AP automatically set port speed based on the type of equipment it is connected to.
`100`	Forces the port to operate at 100 mbps.
`10`	Forces the port to operate at 10 mbps.

vlan

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
vlan <id>
```

Sets the default VLAN ID. Range: 1 - 4094. All outgoing traffic that does not have a VLAN already assigned to it, is sent on this VLAN.

```
no vlan
```

Deletes the default VLAN ID.

vlan compatibility mode

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`vlan compatibility mode`

When this option is enabled, the AP sends all management traffic AND all untagged traffic on both the default VLAN and untagged.

`no vlan compatibility mode`

Disables VLAN and untagged compatibility mode.

vlan-management filter

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`vlan-management filter`

Restricts the default VLAN to carry management traffic only.

`no vlan-management filter`

Does not restrict the default VLAN to carry management traffic only.

Management traffic includes:

- all traffic that is exchanged by the AP and the access controller
- all communications with RADIUS servers
- HTTPS sessions to the management tool
- SNMP traffic

interface vlan

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`interface vlan <networkname>`

Switches to the specified VLAN interface or create a new VLAN interface with the specified VLAN definition.

`no interface vlan <networkname>`

Deletes the specified VLAN.

Port 1 port interface context

Path: View > Enable > Config > Port 1 port interface

Use this context to configure the Port 1 port.

end

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
end
```

Switches to parent context.

duplex

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
duplex (auto | half | full)
```

Sets the duplex mode on Port 1.

Parameters

`auto`	Lets the AP automatically set duplex mode based on the type of equipment it is connected to.
`half`	Forces the port to operate in half duplex mode.
`full`	Forces the port to operate in full duplex mode.

speed

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
speed (auto | 10 | 100)
```

Sets the speed of the Port 1 port.

Parameters

`auto`	Lets the AP automatically set port speed based on the type of equipment it is connected to.
`100`	Forces the port to operate at 100 mbps.
`10`	Forces the port to operate at 10 mbps.

vlan

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
vlan <id>
```

Sets the default VLAN ID. Range: 1 - 4094. All outgoing traffic that does not have a VLAN already assigned to it, is sent on this VLAN.

```
no vlan
```

Deletes the default VLAN ID.

vlan compatibility mode

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`vlan compatibility mode`

When this option is enabled, the AP sends all management traffic AND all untagged traffic on both the default VLAN and untagged.

`no vlan compatibility mode`

Disable VLAN and untagged compatibility mode.

vlan-management filter

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`vlan-management filter`

Restricts the default VLAN to carry management traffic only.

`no vlan-management filter`

Does not restrict the default VLAN to carry management traffic only.

Management traffic includes:

- all traffic that is exchanged by the AP and the access controller
- all communications with RADIUS servers
- HTTPS sessions to the management tool
- SNMP traffic

interface vlan

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`interface vlan <id>[-<id2>]`

Switches to the specified VLAN interface or create a new VLAN interface with the specified ID.

`no interface vlan <id>[-<id2>]`

Deletes the specified VLAN interface.

Parameters

<id>	VLAN ID. Range: 1 - 4094.
<id2>	VLAN ID. When specified, is the last value in a range.

WAN IP interface context

Path: View > Enable > Config > WAN IP interface

Use this context to configure various IP-networking related settings on the Internet port.

pppoe client user

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`pppoe client user <username> <password>`

Sets the PPPoE username and password.

`no pppoe client user`

Deletes the PPPoE username.

Parameters

<username>	The username assigned to you by your ISP. The AP will use this username to log on to your ISP when establishing a PPPoE connection.
<password>	The password assigned to you by your ISP. The AP will use this username to log on to your ISP when establishing a PPPoE connection.

ip address mode

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`ip address mode (dhcp | pppoe | static)`

Sets the IP addressing mode for Port 2.

Parameters

`dhcp`	Dynamic host configuration protocol. The DHCP server will automatically assign an address to the AP, which functions as a DHCP client.
`pppoe`	Point-to-point protocol over Ethernet. The PPPoE server will automatically assign an IP address to the AP. You need to supply a username and password so the AP can log on.
`static`	This option enables you to manually assign an IP address to the AP.

ip address

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`ip address <ip address>/<mask>`

Sets a static IP address for the port.

Parameters

<address>	IP address.
</mask>	Subnet mask in CIDR format. Specifies the number of bits in the mask.

ip default-gateway

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`ip default-gateway <ip address>`

Sets the IP address of the default gateway.

`no ip default-gateway`

Deletes the default gateway IP address.

Parameters

<address>	IP address.

ip address dhcp client-id

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`ip address dhcp client-id <id>`

Specifies an ID to identify the AP to a DHCP server. This parameter is not required by all ISPs.

`no ip address dhcp client-id`

Deletes the specified DHCP client id.

end

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`end`

Switches to parent context.

pppoe auto-reconnect

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`pppoe auto-reconnect`

The AP will automatically attempt to reconnect if the connection is lost.

`no pppoe auto-reconnect`

The AP will not automatically attempt to reconnect if the connection is lost.

pppoe mru

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`pppoe mru <bytes>`

Specifies the maximum receive unit.

Changes to this parameter should only be made according to the recommendations of your ISP. Incorrectly setting this parameter can reduce the throughput of your Internet connection.

Parameters

<bytes>	Maximum size (in bytes) of a PPPoE packet when receiving. Range: 500 - 1500 bytes.

pppoe mtu

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`pppoe mtu <bytes>`

Specifies the maximum transmit unit.

Changes to this parameter should only be made according to the recommendations of your ISP. Incorrectly setting this parameter can reduce the throughput of your Internet connection.

Parameters

<bytes>	Maximum size (in bytes) of a PPPoE packet when transmitting. Range: 500 - 1500 bytes.

pppoe unnumbered

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
pppoe unnumbered
```

Enable unnumbered mode.

```
no pppoe unnumbered
```

Disable unnumbered mode.

This feature is useful when the AP is connected to the Internet and NAT is not being used. Instead of assigning two IP addresses to the AP, one to the Internet port and one to the LAN port, both ports can share a single IP address. This is especially useful when a limited number of IP addresses are available to you.

Wireless context

Path: View > Enable > Config > Wireless

Use this context to configure wireless settings.

end

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
end
```

Switches to parent context.

radio active

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
radio active
```

Enables the radio.

```
no radio active
```

Disables the radio.

rts threshold

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
rts threshold <value>
```

Sets the RTS threshold.

```
no rts threshold
```

Deletes the RTS threshold value.

Parameters

< value> Threshold value in the range 128 and 1540.

Description

Use this parameter to control collisions on the link that can reduce throughput. If the Status > Wireless page on the management tool shows increasing values for Tx multiple retry frames or Tx single retry frames, you should adjust this value until the errors clear up. Start with a value of 1024 and then decrease to 512 until errors are reduced or eliminated.

Using a small value for RTS threshold can affect throughput.

If a packet is larger than the threshold, the AP will hold it and issue a request to send (RTS) message to the client station. Only when the client station replies with a clear to send (CTS) message will the AP send the packet. Packets smaller than the threshold are transmitted without this handshake.

distance

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
distance (small | medium | large)
```

Sets the distance between access points.

Use this parameter to adjust the receiver sensitivity of the AP. This parameter should only be changed if:

- you have more than one wireless access point installed in your location
- you are experiencing throughput problems

In all other cases, use the default setting of Large.

If you have installed multiple APs, reducing the receiver sensitivity of the AP from its maximum will help to reduce the amount of crosstalk between the wireless stations to better support roaming clients. By reducing the receiver sensitivity, client stations will be more likely to connect with the nearest access point.

maximum clients _

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`maximum clients <value>`

Sets the maximum number of wireless client stations that can be associated at the same time on this radio.

Parameters

< value>	Maximum clients value in the range 1 and 255.

tx beam forming

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`tx beam forming`

Enables tx beam forming.

`no tx beam forming`

Disables tx beam forming.

dot11

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`dot11 <mode> <frequency>`

Sets the wireless mode and the frequency the AP will operate at.

Parameters

<mode>	Sets the transmission speed and frequency band. The available options are determined by the wireless card installed in the AP, and may include: a: Selects 802.11a providing 54 Mbps in the 5 GHz frequency band. b: Selects 802.11b providing 11 Mbps in the 2.4 GHz frequency band. g: Selects 802.11g providing 54 Mbps in the 2.4 GHz frequency band. bg: Selects 802.11b + 802.11g providing 11 and 54 Mbps in the 2.4 GHz frequency band. n: Selects 802.11n. an: Selects 802.11n + 802.11a, on the 5Ghz frequency band. gn: Selects 802.11n + 802.11g, on the 2.4Ghz frequency band. bgn: Selects 802.11n + 802.11g + 802.11b, on the 2.4Ghz frequency band.

<frequency>	Sets the operating frequency by specifying a number in GHz or by specifying a channel number. The frequencies that are available are determined by the radio installed in the AP and the regulations that apply in your country. For optimum performance when operating in 802.11b or 802.11g modes, choose a frequency that differs from other wireless access points operating in neighboring cells by at least 25 MHz. If operating in 802.11a mode, all channels are non-overlapping.

transmit power

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
transmit power (DB | max)
```

Sets the maximum transmission power of the wireless radio.

Parameters

<db>	Power is specified in steps of 1dBm. The maximum setting is 18 dBm.

Note: The actual transmit power used may less than the value specified. The AP determines the power to used based on the settings you made for regulatory domain, wireless mode, and operating frequency.

antenna bidirectionnal

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
antenna bidirectionnal (diversity | main | auxiliary)
```

Sets the antenna to transmit and receive on. Select diversity to transmit and receive on both antennas.

Parameters

`diversity`	In this mode both antennas are used to transmit and receive. The AP supports both transmit and receive diversity.
`main`	Transmit and receive on the main antenna only.
`aux`	Transmit and receive on the aux antenna only.

antenna gain

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
antenna gain <number>
```

Used only for Radar detection, records gain (in 5GHz band) of external antenna installed on device. Does not affect output power.

autochannel skip

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
autochannel skip <chan>
```

Adds the specified channel to the list of channels that are not allowed to be selected by the Auto Channel algorithm.

`no autochannel skip <chan>`

Removes the specified channel to the list of channels that are not allowed to be selected by the Auto Channel algorithm.

beacon interval

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`beacon interval <value>`

Sets the beacon interval.

Parameters

`< value>`	Beacon interval value in the range 20 and 500 time units (TU) (1 TU = 1024us).

dot11 automatic frequency

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`dot11 automatic frequency`

Enable this option to have the AP automatically determine the best operating frequency.

`no dot11 automatic frequency`

Disable automatic frequency selection.

dot11 automatic frequency period

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`dot11 automatic frequency period (disabled | 1h | 2h | 4h | 8h | 12h | 24h)`

Specify how often the frequency setting is re-evaluated when automatic frequency selection is enabled.

dot11 automatic frequency time

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`dot11 automatic frequency time <time>`

Specify when the channel should be re-evaluated.

dot11 automatic transmit-power

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`dot11 automatic transmit-power`

Enables automatic transmit power selection.

`no dot11 automatic transmit-power`

Disables automatic transmit power selection.

dot11 automatic transmit-power period

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
dot11 automatic transmit-power period (1h | 2h | 4h | 8h | 12h | 24h)
```

Sets the interval at which the transmit power setting is re-evaluated when automatic power selection is enabled.

multicast rate

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
multicast rate (1 | 2 | 5.5 | 6 | 9 | 11 | 12 | 18 | 24 | 36 | 48 | 54)
```

Sets the transmit rate for multicast traffic.

This is a fixed rate, which means that if a station is too far away to receive traffic at this rate, then the multicast will not be seen by the station. By rasing the multicast rate you can increase overall throughput significantly.

station distance

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
station distance (0km | 5km | 10km | 15km | 20km | 25km | 30km | 35km)
```

Fine tunes internal timeout settings to account for the distance that wireless links span. For normal operation, the AP is optimized for links of less than 1 km.

This is a global setting that is useful when creating wireless links to remote sites. However, it also applies to all wireless connection made with the radio, not just for wireless links. Therefore, if you are also using the radio to serve local wireless client stations, adjusting this setting may lower the performance for clients with marginal signal strength or when interference is present. (Essentially, it means that if a frame needs to be retransmitted it will take longer before the actual retransmit takes place.)

dot11 mode

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
dot11 mode (monitor | ap+wds | ap-only | wds-only | sensor)
```

Sets the operating mode for the radio.

spectralink view

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
spectralink view
```

Enables the use of spectralink view.

```
no spectralink view
```

Disables the use of spectralink view.

client statistics

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
client statistics
```

Enable collect statistics for wireless clients.

```
no client statistics
```

Disable collect statistics for wireless clients.

dot11n allowedclients

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410

```
allowed clients <clients>
```

Configures whether only 802.11n clients are allowed to associate with a radio.

Parameters

<clients>	Configures whether only 802.11n clients are allowed to associate with a radio. n_clients_only: Configures the radio to allow only 802.11n clients to associate. all: Configures the radio to allow all clients to associate.

dot11n channel extension

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410

```
dot11n channel extension (above | below)
```

Selects the 802.11n channel extension. Applicable only in the 2.4 GHz band and a 40 MHz channel width.

dot11n channel width

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410

```
dot11n channel width (40 | 20 | auto)
```

Select the 802.11n channel width.

dot11n guard interval

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410

```
dot11n guard interval (short | long)
```

Selects the 802.11n guard interval.

dot11n multicast rate

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410

```
dot11n multicast rate <rate>
```

Sets the multicast rate for use with 802.11n networks.

dot11n mac protection

Supported on: HP 560 MSM466 MSM460 MSM430 MSM410

```
dot11n mac protection (none | cts-to-self | rts-cts)
```

Sets the RTS/CTS protection mode for 802.11n.

severe interference detection

Supported on: HP 560 MSM466 MSM460 MSM430 MSM410

```
severe interference detection
```

Enables severe interference detection/mitigation.

```
no severe interference detection
```

Disables severe interference detection/mitigation.

show traffic-shaping

Supported on: HP 560 MSM466 MSM460 MSM430 MSM410

```
show traffic-shaping
```

Displays traffic-shaping config.

traffic-shaping

Supported on: HP 560 MSM466 MSM460 MSM430 MSM410

```
traffic-shaping (disabled | airtime)
```

Enables per-client traffic shaping.

```
no traffic-shaping
```

Disables per-client traffic shaping.

bandwidth

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
bandwidth
```

Enables bandwidth control.

```
no bandwidth
```

Disables bandwidth control.

bandwidth max

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
bandwidth max <rate>
```

Sets the maximum data rate on the wireless port in kbps.

Parameters

<rate>	Maximum data rate. Range: 50 - 500000 kbps.

Wireless context

Path: Wireless

Use this context to configure wireless settings.

bandwidth

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`bandwidth`

Enables bandwidth control.

`no bandwidth`

Disables bandwidth control.

bandwidth max

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`bandwidth max <rate>`

Sets the maximum data rate on the wireless port in kbps.

Parameters

<rate> Maximum data rate. Range: 50 - 500000 kbps.

dot11

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`dot11 <mode> <frequency>`

Sets the wireless mode and the frequency the AP will operate at.

Parameters

<mode> Sets the transmission speed and frequency band. The available options are determined by the wireless card installed in the AP, and may include:

a: Selects 802.11a providing 54 Mbps in the 5 GHz frequency band.

b: Selects 802.11b providing 11 Mbps in the 2.4 GHz frequency band.

g: Selects 802.11g providing 54 Mbps in the 2.4 GHz frequency band.

bg: Selects 802.11b + 802.11g providing 11 and 54 Mbps in the 2.4 GHz frequency band.

n: Selects 802.11n.

an: Selects 802.11n + 802.11a, on the 5Ghz frequency band.

gn: Selects 802.11n + 802.11g, on the 2.4Ghz frequency band.

bgn: Selects 802.11n + 802.11g + 802.11b, on the 2.4Ghz frequency band.

<frequency> Sets the operating frequency by specifying a number in GHz or by specifying a channel number. The frequencies that are available are determined by the radio installed in the AP and the regulations that apply in your country.

For optimum performance when operating in 802.11b or 802.11g modes, choose a frequency that differs from other wireless access points operating in neighboring cells by at least 25 MHz.

If operating in 802.11a mode, all channels are non-overlapping.

distance

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
distance (small | medium | large)
```

Sets the distance between access points.

Use this parameter to adjust the receiver sensitivity of the AP. This parameter should only be changed if:

- you have more than one wireless access point installed in your location
- you are experiencing throughput problems

In all other cases, use the default setting of Large.

If you have installed multiple APs, reducing the receiver sensitivity of the AP from its maximum will help to reduce the amount of crosstalk between the wireless stations to better support roaming clients. By reducing the receiver sensitivity, client stations will be more likely to connect with the nearest access point.

transmit power

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
transmit power (DB | max)
```

Sets the maximum transmission power of the wireless radio.

Parameters

<db> Power is specified in steps of 1dBm. The maximum setting is 18 dBm.

Note: The actual transmit power used may less than the value specified. The AP determines the power to used based on the settings you made for regulatory domain, wireless mode, and operating frequency.

dot11 automatic frequency

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
dot11 automatic frequency
```

Enable this option to have the AP automatically determine the best operating frequency.

```
no dot11 automatic frequency
```

Disable automatic frequency selection.

dot11 automatic frequency period

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`dot11 automatic frequency period (disabled | 1h | 2h | 4h | 8h | 12h | 24h)`

Specify how often the frequency setting is re-evaluated when automatic frequency selection is enabled.

dot11 automatic frequency time

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`dot11 automatic frequency time <time>`

Specify when the channel should be re-evaluated.

dot11 automatic transmit-power

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`dot11 automatic transmit-power`

Enables automatic transmit power selection.

`no dot11 automatic transmit-power`

Disables automatic transmit power selection.

dot11 automatic transmit-power period

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`dot11 automatic transmit-power period (1h | 2h | 4h | 8h | 12h | 24h)`

Sets the interval at which the transmit power setting is re-evaluated when automatic power selection is enabled.

antenna bidirectionnal

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`antenna bidirectionnal (diversity | main | auxiliary)`

Sets the antenna to transmit and receive on. Select diversity to transmit and receive on both antennas.

Parameters

`diversity`	In this mode both antennas are used to transmit and receive. The AP supports both transmit and receive diversity.
`main`	Transmit and receive on the main antenna only.
`aux`	Transmit and receive on the aux antenna only.

antenna gain

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`antenna gain <number>`

Used only for Radar detection, records gain (in 5GHz band) of external antenna installed on device. Does not affect output power.

autochannel skip

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`autochannel skip <chan>`

Adds the specified channel to the list of channels that are not allowed to be selected by the Auto Channel algorithm.

station distance

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`station distance (0km | 5km | 10km | 15km | 20km | 25km | 30km | 35km)`

Fine tunes internal timeout settings to account for the distance that wireless links span. For normal operation, the AP is optimized for links of less than 1 km.

This is a global setting that is useful when creating wireless links to remote sites. However, it also applies to all wireless connection made with the radio, not just for wireless links. Therefore, if you are also using the radio to serve local wireless client stations, adjusting this setting may lower the performance for clients with marginal signal strength or when interference is present. (Essentially, it means that if a frame needs to be retransmitted it will take longer before the actual retransmit takes place.)

beacon interval

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`beacon interval <value>`

Sets the beacon interval.

Parameters

< value>	Beacon interval value in the range 20 and 500 time units (TU) (1 TU = 1024us).

maximum clients _

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`maximum clients <value>`

Sets the maximum number of wireless client stations that can be associated at the same time on this radio.

Parameters

< value>	Maximum clients value in the range 1 and 255.

tx beam forming

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`tx beam forming`

Enables tx beam forming.

`no tx beam forming`

Disables tx beam forming.

rts threshold

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`rts threshold <value>`

Sets the RTS threshold.

`no rts threshold`

Deletes the RTS threshold value.

Parameters

< value> Threshold value in the range 128 and 1540.

Description

Use this parameter to control collisions on the link that can reduce throughput. If the Status > Wireless page on the management tool shows increasing values for Tx multiple retry frames or Tx single retry frames, you should adjust this value until the errors clear up. Start with a value of 1024 and then decrease to 512 until errors are reduced or eliminated.

Using a small value for RTS threshold can affect throughput.

If a packet is larger than the threshold, the AP will hold it and issue a request to send (RTS) message to the client station. Only when the client station replies with a clear to send (CTS) message will the AP send the packet. Packets smaller than the threshold are transmitted without this handshake.

dot11 mode

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`dot11 mode (monitor | ap+wds | ap-only | wds-only | sensor)`

Sets the operating mode for the radio.

radio active

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`radio active`

Enables the radio.

`no radio active`

Disables the radio.

spectralink view

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`spectralink view`

Enables the use of spectralink view.

`no spectralink view`

Disables the use of spectralink view.

client statistics

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`client statistics`

Enable collect statistics for wireless clients.

`no client statistics`

Disable collect statistics for wireless clients.

scan ratio

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`scan ratio <percentage>`

Sets the neighborhood scanning ratio.

Parameters

< percentage>	Scan ratio value (%) in the range 0.1 and 100.

scan dwell time

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`scan dwell time <time>`

Sets the neighborhood scanning dwell time.

Parameters

< time>	Scan dwell time (ms) in the range 20-1000 (foreground) or 20-32 (background).

scan mode

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`scan mode <mode>`

Sets the neighborhood scanning mode.

Parameters

< mode>	Scan mode (active or passive).

scan band

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`scan band <bands>`

Sets the neighborhood scanning bands.

Parameters

< bands>	Scan bands (all or operating-only).

scan channel

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`scan channel <channels>`

Sets the neighborhood scanning channels.

Parameters

< channels>	Scan channels (all, regulatory-only, or non-excluded-only).

traffic-shaping

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
traffic-shaping (disabled | airtime)
```

Enables per-client traffic shaping.

```
no traffic-shaping
```

Disables per-client traffic shaping.

show traffic-shaping

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
show traffic-shaping
```

Displays traffic-shaping config.

severe interference detection

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
severe interference detection
```

Enables severe interference detection/mitigation.

```
no severe interference detection
```

Disables severe interference detection/mitigation.

allowed clients

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
allowed clients (n_only | ac_only | ac_and_n_only | all)
```

Configues client restrictions to associate with a radio.

channel extension

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
channel extension (above | below)
```

Selects the 802.11n channel extension. Applicable only in the 2.4 GHz band and a 40 MHz channel width.

channel width

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
channel width (20 | auto_40 | auto_80 | auto)
```

Select the 802.11 channel width.

end

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
end
```

Switches to parent context.

guard interval

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
guard interval (short | long)
```

Selects the 802.11 guard interval.

multicast rate

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
multicast rate <rate>
```

Sets the multicast transmission rate.

mac protection

Supported on: HP 560 MSM466 MSM460 MSM430 MSM410

```
mac protection (none | cts-to-self | rts-cts)
```

Sets the RTS/CTS protection mode for 802.11.

Virtual AP context

Path: View > Enable > Config > Virtual AP

Use this context to configure VSC profiles (formerly called VAPs).

By default, one VSC profile exists with the name "HP". This is the default profile and cannot be deleted.

virtual ap name

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`virtual ap name <name>`

Change the VAP (VSC) name.

ingress interface

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`ingress interface (wireless | wireless) <name>`

Sets the specified interface as the ingress interface traffic will be accepted on.

`no ingress interface (wireless | wireless) <name>`

Removes the specified interface as an ingress interface.

guest-mode

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`guest-mode`

Enables broadcast of the wireless network name (SSID).

`no guest-mode`

Disables broadcast of the wireless network name (SSID).

max-association

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`max-association <stations>`

Sets the maximum number of clients stations that can associate with this VAP (VSC).

<stations> Number of client stations. Range: 1 - 255.

ssid name

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`ssid name <name>`

Specifies the WLAN name (SSID) for the profile.

vlan

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`vlan <id>`

Assigns a VLAN ID to this VAP (VSC).

`no vlan`

Deletes the VLAN ID for this VAP (VSC).

Parameters

<id>	VLAN ID. Range: 1 - 4094.

encryption key 1

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`encryption key <key> <value>`

Sets WEP key 1.

`no encryption key <key>`

Deletes WEP key 1.

Parameters

<key>	WEP key number. Range: 1 - 4. Keys 2 to 4 are only supported on the first WLAN profile.
<value>	Key value. The number of characters you specify for a key determines the level of encryption the AP will provide. For 40-bit encryption, specify 5 ASCII characters or 10 HEX digits. For 128-bit encryption, specify 13 ASCII characters or 26 HEX digits.

encryption key format

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`encryption key format (hex | ascii)`

Specify the WEP key format.

Parameters

`hex`	Hex keys should only include the following digits: 0-9, a-f, A-F
`ascii`	ASCII keys are much weaker than carefully chosen hex keys. You can include ASCII characters between 32 and 126, inclusive, in the key. However, note that not all client stations support non-alphanumeric characters such as spaces, punctuation, or special symbols in the key.

transmit key

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`transmit key <key number>`

Sets the key the AP will use to encrypt transmitted data. All four keys are used to decrypt received data.

Parameters

<key number>	Transmit key number. Range: 1 -4.

authentication server access controller

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`authentication server access controller`

Use the access controller to authenticate 802.1X or WPA logins.

authentication server accounting

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`authentication server accounting`

Enables RADIUS accounting for this VSC (VAP).

`no authentication server accounting`

Disables RADIUS accounting for this VSC (VAP).

authentication server accounting radius profile

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`authentication server accounting radius profile <name>`

Sets RADIUS accounting to use the specified RADIUS profile.

`no authentication server accounting radius profile`

Removes accounting support for 802.1X.

authentication server radius

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`authentication server radius <name>`

Sets the RADIUS profile to use for 802.1X or WPA authentication.

dot1x authentication

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`dot1x authentication (local | radius | active-directory)`

Sets the authentication for 802.1X and WPA.

wpa-psk

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`wpa-psk <key>`

Sets the WPA preshared key.

`no wpa-psk`

Deletes the WPA preshared key.

Parameters

`password`	Specify a key that is between 8 and 64 ASCII characters in length. It is recommended that the preshared key be at least 20 characters long, and be a mix of letters and numbers.

Description

The AP uses the key you specify to generate the TKIP keys that encrypt the wireless data stream. Since this is a static key, it is not as secure as using dynamically generated keys.

authentication server accounting radius stationid case

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
authentication server accounting radius stationid case (uppercase | lowercase)
```

Specifies the case applied to the station delimiter if it is a letter.

authentication server accounting radius stationid delimiter

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
authentication server accounting radius stationid delimiter (null | colon |
dash | dot | space | comma | under)
```

Specifies the one-character delimiter that will be used to format both the calling station ID and the called station ID attributes in RADIUS packets.

wireless filters

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
wireless filters
```

Enables the wireless security filters which only allow traffic to flow between the AP and a specific upstream device (such as a HP controller).

```
no wireless filters
```

Do not limit traffic flow between the AP and an upstream device.

This prevents wireless users from accessing resources on the backbone LAN that interconnects the AP and the upstream device.

wireless filters mac

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
wireless filters mac <mac>
```

Sets the MAC address of the upstream device to send traffic to.

```
no wireless filters mac <mac>
```

Deletes the MAC address of the upstream device to send traffic to.

wireless filters rule input

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
wireless filters rule input <rule>
```

Adds a custom filter definition for incoming wireless traffic.

Use this command to define custom security filters for incoming wireless traffic. Filters are specified using standard pcap syntax (http://www.tcpdump.org/tcpdump_man.html) with the addition of a few HP-specific placeholders. These placeholders can be used to refer to specific MAC addresses and are expanded by the AP when the filter is activated. Once expanded, the filter must respect the pcap syntax. The pcap syntax is documented in the tcpdump man page:

Placeholders

- %a - MAC address of the access controller.
- %b - MAC address of the bridge.
- %g - Mac address of the default gateway assigned to the AP.
- %w - MAC address of wireless port.

wireless filters rule output

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`wireless filters rule output <rule>`

Adds a custom filter definition for outgoing wireless traffic.

Use this command to define custom security filters for outgoing wireless traffic. Filters are specified using standard pcap syntax (http://www.tcpdump.org/tcpdump_man.html) with the addition of a few HP-specific placeholders. These placeholders can be used to refer to specific MAC addresses and are expanded by the AP when the filter is activated. Once expanded, the filter must respect the pcap syntax. The pcap syntax is documented in the tcpdump man page:

Placeholders

- %a - MAC address of the access controller.
- %b - MAC address of the bridge.
- %g - Mac address of the default gateway assigned to the AP.
- %w - MAC address of wireless port.

wireless filters type

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`wireless filters type (mac | gateway | rules)`

Sets the type of wireless security filter to use.

Parameters

`mac`	Traffic is forwarded to an upstream device with a specific MAC address. Wireless security filters use the default definitions.
`gateway`	Traffic is forwarded to the default gateway assigned to the AP. Wireless security filters use the default definitions.
`custom`	Lets you define custom security filters and address for the upstream device.

Description

The AP features an intelligent bridge which can apply security filters to safeguard the flow of wireless traffic. The filters limit both incoming and outgoing traffic as defined below, and force the AP to exchange traffic with a specific upstream device. If the AP is configured to use the services of a HP access controller, then the default security filters are automatically enabled and all traffic is sent to the access controller.

Default filters for incoming wireless traffic

Applies to traffic sent from wireless client stations to the AP.

Accepted

- Any IP traffic addressed to the access controller.

- PPPoE traffic (The PPPoe server must be the upstream device.)
- IP broadcast packets, except NetBIOS
- Certain address management protocols (ARP, DHCP) regardless of their source address.
- Any traffic addressed to the AP, including 802.1X.

Blocked

- All other traffic is blocked. This includes NetBIOS traffic regardless of its source/destination address. TTPS traffic not addressed to the AP (or upstream device) is also blocked, which means wireless client stations cannot access the management tool on other HP products.

Default filters for outgoing wireless traffic

Applies to traffic sent from the AP to wireless client stations.

Accepted

- Any IP traffic coming from the upstream device, except NetBIOS packets.
- PPPoE traffic from the upstream device.
- IP broadcast packets, except NetBIOS
- ARP and DHCP Offer and ACK packets.
- Any traffic coming from the AP itself, including 802.1X.

Blocked

- All other traffic is blocked. This includes NetBIOS traffic regardless of its source/destination address.

mac-filters local

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
mac-filters local
```

Enables the MAC filter list.

```
no mac-filters local
```

Disables the MAC filter list.

mac-filters

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
mac-filters <address>
```

Adds an address to the MAC filter list.

```
no mac-filters <address>
```

Remove the specified address from the MAC filter list.

Parameters

<address>	MAC address. Specify 6 pairs of hexadecimal numbers separated by colons, with the values a to f in lowercase. For example: 00:00:00:0a:0f:01

Description

This feature enables you to control access to the AP based on the MAC address of client stations. You can either block access or allow access, depending on your requirements. When both this option and the MAC-based authentication options are enabled, the following applies: if a user's MAC address does not appear in the MAC filtering list, then MAC-based authentication takes place for that user.

mac-filters mode

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`mac-filters mode (allow | block)`

Either allow or block access to the wireless network for client stations whose addresses appear in the MAC filter list.

mac-filters-list

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`mac-filters-list <maclist>`

Sets the MAC list of the VSC.

mac authentication accounting

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`mac authentication accounting`

Enables RADIUS accounting for this VAP (VSC).

`no mac authentication accounting`

Disables RADIUS accounting for this VAP (VSC).

mac authentication accounting radius profile

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`mac authentication accounting radius profile <name>`

Sets RADIUS accounting to use the specified RADIUS profile.

`no mac authentication accounting radius profile`

Disables accounting support for MAC authentication.

mac authentication radius profile

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`mac authentication radius profile <radiusname>`

Specifies the name of the RADIUS profile to use for MAC-based authentication.

`no mac authentication radius profile`

Do not use a RADIUS profile.

mac authentication radius stationid case

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
mac authentication radius stationid case (uppercase | lowercase)
```

Specifies the case applied to the station delimiter if it is a letter.

mac authentication radius stationid delimiter

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
mac authentication radius stationid delimiter (null | colon | dash | dot | space
| comma | under)
```

Specifies the one-character delimiter that will be used to format both the calling station ID and the called station ID attributes in RADIUS packets.

mac authentication

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
mac authentication
```

Enables support for MAC-based authentication.

```
no mac authentication
```

Disable support for MAC-based authentication.

authentication required

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
authentication required (both | single)
```

Specifies if 802.1X and/or MAC authentications are required.

add ip filter

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
add ip filter <ip address>/<mask>
```

Adds an IP filter to the list of destination addresses that traffic will be accepted for. All other traffic will be blocked.

If the list is empty, then all wireless-to-wired LAN traffic is permitted.

Where:

<address>	IP address.
</mask>	Subnet mask in CIDR format. Specifies the number of bits in the mask.

delete ip filter

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
delete ip filter <ip address>/<mask>
```

Deletes the specified address from the IP filter list.

If the list is empty, then all wireless-to-wired LAN traffic is permitted.

Where:

<address>	IP address.
</mask>	Subnet mask in CIDR format. Specifies the number of bits in the mask.

delete ip filter all

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
delete ip filter all
```

Deletes all addresses from the IP filter list.

ip filters

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
ip filters
```

Activates the IP filter which enables you to block wireless-to-wired LAN traffic on this profile based on its destination address.

```
no ip filters
```

Disables the IP filter for this profile.

active

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
active
```

Enable this VAP (VSC).

```
no active
```

Disable this VAP (VSC).

band steering

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
band steering
```

Enable band steering on this VSC between both radios.

```
no band steering
```

Disable band steering on this VSC between both radios.

beacon dtim count

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
beacon dtim count <number>
```

Defines the DTIM period in the beacon.

Client stations use the DTIM to wake up from low-power mode to receive multicast traffic. The AP transmits a beacon every 100 ms. The DTIM counts down with each beacon that is sent, therefore if the DTIM is set to 5, then client stations in low-power mode will wake up every 500 ms (.5 second) to receive multicast traffic.

beacon transmit power

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`beacon transmit power`

Advertise the current transmit power setting in the beacon.

`no beacon transmit power`

Do not advertise the current transmit power setting in the beacon.

broadcast filter

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`broadcast filter`

Improve performance by not sending most broadcasts.

`no broadcast filter`

Send all broadcasts over wireless.

data rate

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`data rate (a | b | g | bg | n | ac) <rate>`

Enable the given data rate for a particular PHY type.

`no data rate (a | b | g | bg | n | ac) <rate>`

Disable the given data rate for a particular PHY type.

data rate a

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`data rate a`

Available rates for PHY=a : 6|9|12|18|24|36|48|54

`no data rate a`

Available rates for PHY=a : 6|9|12|18|24|36|48|54

data rate ac

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`data rate ac`

Available rates for PHY=ac : 6|9||12|18|24|36|48|54|MCS0|MSC1|MCS2|MCS3|MCS4|MCS5|MCS6|MCS7|MCS8|MCS9|MCS10|MCS11|MSC12|MCS13|MCS14|MCS15|MCS16|MCS17|MCS18|MCS19|MCS20|MCS21|MCS22|MCS23|NSS1_VHT_MCS0_7|NSS1_VHT_MCS0_8|NSS1_VHT_MCS0_9|NSS2_VHT_MCS0_7|NSS2_VHT_MCS0_8|NSS2_VHT_MCS0_9|NSS3_VHT_MCS0_7|NSS3_VHT_MCS0_8|NSS3_VHT_MCS0_9

```
no data rate ac
```

Available rates for PHY=ac :
6|9||12|18|24|36|48|54|MCS0|MSC1|MCS2|MCS3|MCS4|MCS5|MCS6|MCS7|MCS8|MCS9|MCS10|MCS11|MSC12|MCS13|MCS14|MCS15|MCS16|MCS17|MCS18|MCS19|MCS20|MCS21|MCS22|MCS23|NSS1_VHT_MCS0_7|NSS1_VHT_MCS0_8|NSS1_VHT_MCS0_9|NSS2_VHT_MCS0_7|NSS2_VHT_MCS0_8|NSS2_VHT_MCS0_9|NSS3_VHT_MCS0_7|NSS3_VHT_MCS0_8|NSS3_VHT_MCS0_9

data rate b

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
data rate b
```

Available rates for PHY=b : 1|2|5.5|11

```
no data rate b
```

Available rates for PHY=b : 1|2|5.5|11

data rate bg

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
data rate bg
```

Available rates for PHY=bg : 1|2|5.5|6|9|11|12|18|24|36|48|54

```
no data rate bg
```

Available rates for PHY=bg : 1|2|5.5|6|9|11|12|18|24|36|48|54

data rate g

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
data rate g
```

Available rates for PHY=g : 6|9|12|18|24|36|48|54

```
no data rate g
```

Available rates for PHY=g : 6|9|12|18|24|36|48|54

data rate n

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
data rate n
```

Available rates for PHY=n :
1|2|5.5|6|9|11|12|18|24|36|48|54|MCS0|MSC1|MCS2|MCS3|MCS4|MCS5|MCS6|MCS7|MCS8|MCS9|MCS10|MCS11|MSC12|MCS13|MCS14|MCS15|MCS16|MCS17|MCS18|MCS19|MCS20|MCS21|MCS22|MCS23

```
no data rate n
```

Available rates for PHY=n :
1|2|5.5|6|9|11|12|18|24|36|48|54|MCS0|MSC1|MCS2|MCS3|MCS4|MCS5|MCS6|MCS7|MCS8|MCS9|MCS10|MCS11|MSC12|MCS13|MCS14|MCS15|MCS16|MCS17|MCS18|MCS19|MCS20|MCS21|MCS22|MCS23

public forwarding

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
public forwarding (any | 802.1x | none | ipv6)
```

Enables support for traffic exchange between wireless client stations.

add ip-qos profile

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
add ip-qos profile <name>
```

Adds the specified profile to the list of IP QoS profiles in effect for this VSC (VAP).

<profile-name> Name of an existing IP QoS profile.

delete ip-qos profile all

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
delete ip-qos profile all
```

Clears the list of IP QoS profiles currently in effect for this VSC (VAP).

delete ip-qos profile

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
delete ip-qos profile <name>
```

Removes the specified profile from the list of IP QoS profiles in effect for this VSC (VAP).

<profile-name> Name of an existing IP QoS profile currently in the profile list for this VSC (VAP).

qos

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
qos ( 802.1p | very-high | high | normal | low | diffsrv | tos | default | vap0
| vap1 | vap2 | vap3)
```

Sets the QoS level for this profile.

```
no qos
```

Disables QoS for this profile.

Four traffic queues are provided based on the WME standard. In order of priority, these queues are:

- 1: Voice traffic
- 2: Video traffic
- 3: Best effort data traffic
- 4: Background data traffic

Each QoS priority mechanism maps traffic to one of the four traffic queues. Client stations that do not support the QoS mechanism for the profile they are connected to are always assigned to queue 3.

Important: Traffic delivery is based on strict priority (per the WME standard). Therefore, if excessive traffic is present on queues 1 or 2, it will reduce the flow of traffic on queues 3 and 4.

`802.1p`	Traffic from 802.1p client stations is classified based on the VLAN priority field present within the VLAN header. When this mechanism is selected, the AP will advertise WME capabilities, enabling WME clients to associate and take advantage of them. This setting has no effect on legacy clients. Note: To support 802.1p, the wireless profile must have a VLAN assigned to it, which means that client station traffic is forwarded onto the LAN port only.
`vap0 to vap3`	Allows a specific priority level to be specified for all traffic on a VAP (VSC) profile. This enables client stations without a QoS mechanism to set traffic priority by connecting to the appropriate SSID. If you enable this priority mechanism, it takes precedence regardless of the priority mechanism supported by associated client stations. For example, if you set SSID-based low priority for a profile, all devices that connect to the profile have their traffic set at this priority Mapping to the traffic queues is as follows: vap0 or very-high=queue 1, vap1 or high=queue 2, vap2 or normal=queue 3, vap3 or low=queue 4
`diffsrv`	Differential services is a method for defining IP traffic priority on a per-hop basis. The Differential Service bits are defined in RFC2474 and are composed of the six most significant bits of the IP TOS field. These bits define the class selector code points which the CN320 maps to the appropriate traffic queue. (default setting)
`tos`	The IP TOS (type of service) field can be used to mark prioritization or special handling for IP packets.

upstream diffserv tagging

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
upstream diffserv tagging
```

Enables upstream diffserv tagging.

```
no upstream diffserv tagging
```

Disables upstream diffserv tagging.

wmm advertising

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
wmm advertising
```

Enables WMM information element advertising.

```
no wmm advertising
```

Disables WMM information element advertising.

location-aware group

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
location-aware group <name>
```

Sets the specified group name for the access point.

```
no location-aware group
```

Deletes the specified group name for the access point.

end

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
end
```

Switches to parent context.

security

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
security (none | wep | 802.1X [wep | static-wep] | wpa (psk | radius) [ v1 | v2 ] )
```

Sets the current wireless security policy.

Parameters

`none`	No wireless security.
`wep`	This option enables support for wireless users with WEP client software.
`802.1X`	This option enables support for wireless users with 802.1X client software. The AP supports 802.1X client software that uses EAP-TLS, EAP-TTLS, EAP-SIM, and PEAP.
`wep`	Enables the use of dynamic WEP keys for all 802.1X sessions. Dynamic key rotation occurs on key 1, which is the broadcast key. Key 0 is the pairwise key. It is automatically generated by the AP.
`static-wep`	Support client stations using static WEP keys.
`wpa`	This option enables support for wireless users with WPA client software.
`psk`	Enables support for a preshared key:
`radius`	The AP obtains the MPPE key from the RADIUS server. This is a dynamic key that changes each time the user logs in and is authenticated. The MPPE key is used to generate the TKIP keys that encrypt the wireless data stream.
`v1,v2`	Specify which version of WPA to use. None will use both versions (mixed mode).

VLAN interface context

Path: View > Enable > Config > Port 2 port interface > VLAN interface
View > Enable > Config > Port 1 port interface > VLAN interface
View > Enable > Config > Local mesh > VLAN interface

Use this context to configure VLANs.

end

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
end
```

Switches to parent context.

ip address

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
ip address <ip address>/<mask>
```

Sets a static IP address for the VLAN.

Parameters

<address>	IP address.
</mask>	Subnet mask in CIDR format. Specifies the number of bits in the mask.

ip address mode

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
ip address mode (dhcp | static | none)
```

Sets the IP addressing mode for this VLAN interface.

Parameters

`dhcp`	Dynamic host configuration protocol. The DHCP server will automatically assign an address to the AP, which functions as a DHCP client.
`static`	This option enables you to manually assign an IP address to the AP.
`none`	This VLAN does not have an IP address.

Local mesh context

Path: View > Enable > Config > Local mesh

Use this context to configure local mesh links.

end

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
end
```

Switches to parent context.

active

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
active
```

Activates the local mesh profile.

```
no active
```

Deactivates the local mesh profile.

interface

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
interface (radio1 | radio2 | radio3)
```

Selects the interface to which this local mesh link applies.

```
no interface (radio1 | radio2 | radio3)
```

Selects the interface to remove for this local mesh link.

local mesh name

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
local mesh name <name>
```

Renames the current local mesh link.

remote mac

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
remote mac <address>
```

Sets the MAC address of the remote access point.

```
no remote mac
```

Deletes the MAC address of the remote access point.

Parameters

<address>	MAC address. Specify 6 pairs of hexadecimal numbers separated by colons, with the values a to f in lowercase. For example: 00:00:00:0a:0f:01

security

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`security`

Enables wireless security.

`no security`

Disables wireless security.

security mode

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`security mode (wep | tkip | ccmp)`

Set the security mode.

security psk

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`security psk <secret>`

Sets the PSK secret.

`no security psk`

Clears the PSK secret.

security wep

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`security wep <key>`

Sets the WEP key.

`no security wep`

Deletes the WEP key.

speed

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`speed (auto | 1 | 2 | 5.5 | 6 | 9 | 11 | 12 | 18 | 24 | 36 | 48 | 54)`

Sets the speed of the wireless link in Mbps.

interface vlan

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`interface vlan <id>`

Switches to the specified VLAN interface or create a new VLAN interface with the specified Id.

`no interface vlan <number>`

Removes the specified VLAN interface.

Parameters

<id>	VLAN ID. Range: 1 - 4094.

accept forced links

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`accept forced links`

(Alternate Master, Slave only) When enabled, the node will accept any connection forced from a master and it will change its mesh ID in order to use the master mesh ID.

`no accept forced links`

Ignore forced links.

allowed downtime

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`allowed downtime <number>`

The maximum time (in seconds) that a link can remain idle before the link actually gets deleted. When a slave (or alternate-master) loses its link to its master, the discovery phase is re-initiated.

dynamic local mesh

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`dynamic local mesh`

Use dynamic local mesh.

`no dynamic local mesh`

Use static local mesh.

dynamic mode

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`dynamic mode(master|alt-master|slave)`

Selects the mode of operation for dynamic mode.

Three different roles can be assigned to a local mesh node: master, alternate master, or slave. Each role governs how upstream and downstream links are established by the node.

Parameters

<master>	Root node that provides the upstream link to the root network that the other nodes want to reach. The master never tries to connect to any other node. It waits for links from downstream alternate master or slave nodes. .
<alt-master>	First establishes an upstream link with a master or alternate master node. Next, operates as a master node waits for links from downstream alternate master or slave nodes.
<slave>	Can only establish an upstream link with master or alternate master node. Slave nodes cannot establish downstream links with other nodes.

initial discovery time

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`initial discovery time <number>`

(Alternate Master, Slave only) Amount of time that will be taken to discover the best available master node.

The goal of this setting is to delay discovery until all the nodes in the surrounding area have had time to startup, making the identification of the best master more accurate. If this period is too short, a slave may connect to the first master it finds, not necessarily the best.

mesh id

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`mesh id <id>`

Sets the mesh ID.

minimum snr

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`minimum snr <number>`

(Alternate Master, Slave only) This node will only connect with other nodes whose SNR is above this setting (in dB).

preserve master link

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`preserve master link`

(Alternate Master, Slave only) When enabled, the address of the current master to which the node is connected is saved so that if the node restarts it will reconnect to the same master bypassing the initial discovery period.

`no preserve master link`

(Alternate Master, Slave only) Do not preserve master link across reboots.

promiscuous mode

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`promiscuous mode`

(Alternate Master, Slave only) Allows a node to connect to a different mesh when it cannot find a master or alternate master with its currently configured mesh ID within the specified amount of time.

`no promiscuous mode`

(Alternate Master, Slave only) Do not allows a node to connect to a different mesh when it cannot find a master or alternate master

Once a new master or alternate master is found, the following actions are triggered:

- The node firmware is updated using the settings configured under **Scheduled operations** on the **Maintenance > Firmware page**.
- The node configuration is updated using the settings configured under **Scheduled operations** on the **Maintenance > Config file management page**. This changes the node mesh ID to the one found in the configuration file. If no configuration file is defined, the node updates its mesh ID to match the new master or alternate master.
- An SNMP notification is sent if the configuration file or firmware fails to load.

After loading new firmware or a new configuration file, the node waits 30 seconds before restarting if a downstream link was established with another node in promiscuous mode. This provides downstream nodes with additional time during which to download new firmware and configuration files, thus improving the total convergence time of the entire network.

promiscuous mode startup delay

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`promiscuous mode startup delay <number>`

Set delay in seconds before promiscuous mode starts (if enabled).

snr cost per hop

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`snr cost per hop <number>`

(Alternate Master, Slave only) This value is an estimate of the cost of a hop in terms of SNR. It indicates how much SNR a node is willing to sacrifice in order to connect to node one hop closer to the root node, because each hop has an impact on performance, especially when using a single radio.)

RADIUS profiles context

Path: View > Enable > Config > RADIUS profiles

Use this context to define RADIUS profiles. These profiles are used to establish a connection with RADIUS servers.

end

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`end`

Switches to parent context.

radius-server accounting port

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`radius-server accounting port <number>`

Specifies the port to use for RADIUS accounting.

Parameters

<number>	Accounting port number. Range: 1 - 65535.

radius-server alternate hosts

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`radius-server alternate hosts`

Try last answering RADIUS host first.

`no radius-server alternate hosts`

Try primary RADIUS host first.

radius-server authentication method

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`radius-server authentication method (mschap | chap | mschapv2 | pap | eap-md5)`

Sets the authentication method to use when communicating with the RADIUS server.

For 802.1X users, the authentication method is always determined by the 802.1X client software and is not controlled by this setting.

If traffic between the AP and the RADIUS server is not protected by a VPN, it is recommended that you use either EAP-MD5 or MSCHAP V2, if supported by your RADIUS Server. (PAP, MSCHAP V1 and CHAP are less secure protocols.)

radius-server authentication port

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`radius-server authentication port <number>`

Specifies the port to use for RADIUS authentication. By default, RADIUS servers use port 1812.

Parameters

<number>	Authentication port number. Range: 1 - 65535

radius-server deadtime

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`radius-server deadtime <seconds>`

Sets the retry interval for access and accounting requests that time-out.

If no reply is received within this interval, the AP switches between the primary and secondary RADIUS servers (if defined). If a reply is received after the interval expires, it is ignored.

Parameters

<seconds>	Retry interval. Range: 2 - 60 seconds.

radius-server host

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`radius-server host <primary>[<secondary>]`

Sets the addresses of the primary and secondary RADIUS servers.

Parameters

<primary>	IP address of the primary RADIUS server.
<secondary>	IP address of the secondary RADIUS server.

radius-server key 2

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`radius-server key <primary>[<secondary>]`

Sets the primary and secondary secrets used to connect with the RADIUS server.

Parameters

<primary>	Shared secret for the primary RADIUS server.
<secondary>	Shared secret for the secondary RADIUS server.

radius-server message-authenticator

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`radius-server message-authenticator`

Include the message authenticator attribute in RADIUS packets.

`no radius-server message-authenticator`

Do not include the message authenticator attribute in RADIUS packets.

radius-server name

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`radius-server name <name>`

Changes the name of the RADIUS profile.

radius-server nasid

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`radius-server nasid <id>`

Sets the network access server ID you want to use for the AP.

By default, the serial number of the AP is used. The AP includes the NAS-ID attribute in all packets that it sends to the RADIUS server.

radius-server timeout

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`radius-server timeout`

Activates RADIUS timeout.

`no radius-server timeout`

Disables RADIUS timeout.

radius-server timeout

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`radius-server timeout <number>`

Sets the total timeout for RADIUS requests.

`no radius-server timeout`

Disables RADIUS timeout.

IP QOS context

Path: View > Enable > Config > IP QOS

Use this context to configure IP QoS profiles.

end

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`end`

Returns to a previous context.

end-port

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`end-port <number>`

Specifies the end port to use for this IP QoS profile.

Parameters

<number>	End port number. Range: 0 - 65535

priority

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`priority <low | medium | high | very-high>`

Sets the priority for this IP QoS profile.

Parameters

<priority>	Available priorities are: low, medium, high and very-high.

profile name

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`profile name <name>`

Changes the name of the IP QoS profile.

protocol

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`protocol <number>`

Specifies the protocol ID to use for this IP QoS profile.

Parameters

<number>	Protocol number. Range: 0 - 255.

start-port

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`start-port <number>`

Specifies the start port to use for this IP QoS profile.

Parameters

<number>	Start port number. Range: 0 - 65535

GRE interface context

Path: View > Enable > Config > GRE interface

Use this context to configure GRE tunnels.

end

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`end`

Quits the GRE context.

gre name

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`gre name <name>`

Renames the current GRE interface.

ip address

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`ip address <ip address>/<mask>`

Set the local tunnel IP address and mask.

peer ip address

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`peer ip address <ip address>`

Sets the GRE peer IP address.

remote ip address

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`remote ip address <ip address>`

Sets the remote tunnel IP address.

Syslog context

Path: View > Enable > Config > Syslog

Use this context to define syslog settings.

active

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
active
```

Enables logging to the current destination.

```
no active
```

Disables logging to the current destination.

logging facility

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
logging facility (local0 | local1 | local2 | local3 | local4 | local5 | local6 | local7)
```

Sets the facility that is used when logging messages to a syslog server.

Parameters

<facility> Available facilities are: local0 - local7.

logging host

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
logging host (tcp | udp) <addr> [<number>]
```

Sets the remote address, the connection protocol and port of current syslog remote destination.

logging prefix

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
logging prefix <string>
```

Sets the prefix that will be prepended to all syslog messages.

```
no logging prefix
```

Removes the prefix that is prepended to all syslog messages.

name

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
name <name>
```

Renames the current syslog destination.

end

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
end
```

Switches to parent context.

level

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
level
```

Enables filtering of the log file by severity level.

```
no level
```

Disables filtering of the log file by severity level.

level

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
level (lower | higher) (debug | info | notice | warning | error | critical |
alert | emergency)
```

Defines the severity of messages that will be logged.

```
no level
```

Disables filtering of the log file by severity level.

Parameters

`debug`	Debug-level messages.
`info`	Informational messages.
`notice`	Normal, but significant condition.
`warning`	Warning conditions.
`error`	Error conditions.
`critical`	Critical conditions.
`alert`	Action must be taken immediately.
`emergency`	System is unusable.

matches

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
matches (any | all) filters
```

All three log file filters (message, process, and level) are combined to filter the log according to this setting.

message

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
message
```

Enables filtering of the log file message field.

```
no message
```

Disables filtering of the log file message field.

message

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
message (matches | notmatches) <regex>
```

Use this filter to include log messages. Use a regular expression to define the match criteria for the log file message field.

```
no message
```

Disables filtering of the log file message field.

process

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
process
```

Enables filtering of the log file by process name.

```
no process
```

Disables filtering of the log file by process name.

process

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
process (matches | notmatches) <string>
```

Use this filter to include log messages according to their process name.

```
no process
```

Disables filtering of the log file by process name.

SNMP user context

Path: View > Enable > Config > SNMP user

Use this context to define settings for SNMP users.

access level

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`access level (read-only | read-write)`

Specifies the access level use for this SNMP user.

end

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`end`

Returns to a previous context.

password

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`password <password>`

Specifies the password use for this SNMP user.

security

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`security (md5-des | sha-aes)`

Specifies the security use for this SNMP user.

user name

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`user name <name>`

Changes the name of the SNMP user.

SNMP notification receiver context

Path: View > Enable > Config > SNMP notification receiver

Use this context to configure SNMP notification receivers.

community

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`community <community>`

Specifies the community for this SNMP notification receiver.

end

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`end`

Returns to a previous context.

port

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`port <number>`

Specifies the UDP port use for this SNMP notification receiver.

receiver

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`receiver <host>`

Changes the host name of the SNMP notification receiver.

user

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`user <name>`

Specifies the username for this SNMP notification receiver.

version

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`version (1 | 2c | 3)`

Specifies the SNMP version for this SNMP notification receiver.

MAC addresses list context

Path: View > Enable > Config > MAC addresses list

Use this context to manage the MAC address lists. Each list can contain the MAC addresses of one or more devices. The lists can be assigned to the MAC filter option on a switch port, permitting you to limit switch port access to a specific devices based on their MAC address.

end

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`end`

Go to previous context.

entry

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`entry <mac>`

Adds a new entry with the specified MAC address to the list.

`no entry <mac>`

Removes the entry with the specified MAC address from the list.

list name

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`list name <string>`

Change the current list name.

Network profile context

Path: View > Enable > Config > Network profile

Use this context to configure network profiles.

end

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
end
```

Go to previous context.

name

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
name <string>
```

Change the name of current network profile.

vlan

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
vlan
```

Enables the VLAN definition for this profile.

```
no vlan
```

Disables the VLAN definition for this profile.

vlan

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
vlan <number>
```

Set the VLAN ID for this network profile.

```
no vlan
```

Disables the VLAN definition for this profile.

LLDP agent context

Path: View > Enable > Config > LLDP agent

Use this context to configure LLDP settings for controllers and APs.

admin-status

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
admin-status (tx_rx | txonly | rxonly | disable)
```

Enables LLDP agent functionality on this port.

basic-tlv-enable

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
basic-tlv-enable
```

Enables support for basic TLVs.

```
no basic-tlv-enable
```

Disables support for basic TLVs.

basic-tlv-enable port_desc

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
basic-tlv-enable port_desc
```

Enables the port description TLV.

```
no basic-tlv-enable port_desc
```

Disables the port description TLV.

basic-tlv-enable system_cap

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
basic-tlv-enable system_cap
```

Enables the system capabilities TLV.

```
no basic-tlv-enable system_cap
```

Disables the system capabilities TLV.

basic-tlv-enable system_descr

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
basic-tlv-enable system_descr
```

Enables the system description TLV.

```
no basic-tlv-enable system_descr
```

Disables the system description TLV.

basic-tlv-enable system_name

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`basic-tlv-enable system_name`

Enables the system name TLV.

`no basic-tlv-enable system_name`

Disables the system name TLV.

dot3-tlv-enable

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`dot3-tlv-enable`

Enables the 803dot3 MAC/PHY TLV.

`no dot3-tlv-enable`

Disables the 803.3 MAC/PHY TLV.

end

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`end`

Go to previous context.

ip-addr-enable

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`ip-addr-enable <ipaddress>`

Sets the IP Address to be enabled.

med-application-type

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`med-application-type <type>`

Sets MED Application Type for this port.

medtlv-enable capabilities

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

`medtlv-enable capabilities`

Enables the MED Capabilities TLV.

`no medtlv-enable capabilities`

Disables the MED Capabilities TLV.

medtlv-enable location-id

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
medtlv-enable location-id
```

Enables the MED Location TLV.

```
no medtlv-enable location-id
```

Disables the MED Location TLV.

medtlv-enable network-policy

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
medtlv-enable network-policy
```

Enables the MED Network Policy TLV.

```
no medtlv-enable network-policy
```

Disables the MED Network Policy TLV.

medtlv-enable poe

Supported on: HP 560 MSM466 MSM460 MSM430 MSM422 MSM410 MSM320 MSM310

```
medtlv-enable poe
```

Enables the MED Power-via-MDI TLV.

```
no medtlv-enable poe
```

Disables the MED Power-via-MDI TLV.