



UNIFIED SERVICES ROUTER CLI REFERENCE GUIDE

DSR-500 / 500N / 1000 / 1000N

RELEASE 1.02



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CLI Reference Guide

Unified Services Router

D-Link Corporation

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<http://www.dlink.com>

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DSR-500/500N/1000/1000N

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Version 1.02

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Chapter 1. Introduction

This document describes the command line interface (CLI) for managing TeamF1's SGS on typical reference hardware.

The CLI user requires advanced knowledge about the configuration of the system and should be used only by those users who are familiar with CLI-based configuration.

- Note that the following features in the DSR Unified Services Router cannot be managed by the CLI: Firmware Upgrade
- Configuration Backup / Restore
- Certificate Generate / Upload
- Power Savings mode configuration
- System Dashboard / Resource Utilization

Please access the web browser based UI of the DSR router for managing these features.

1.1 Accessing the CLI

The CLI can be accessed by logging in with the same user credentials as used to access the web browser based UI.

```
*****
```

```
Welcome to the TeamF1 Command Line Interface
```

```
*****
```

```
D-Link DSR>
```

 *Note: D-Link DSR> is the CLI prompt.*

Chapter 2. Basic commands available on the CLI

2.1 CONTEXT SENSITIVE HELP

[?] - Display context sensitive help. This is either a list of possible command completions with summaries, or the full syntax of the current command. A subsequent repeat of this key, when a command has been resolved, will display a detailed reference.

2.2 AUTO-COMPLETION

The following keys both perform auto-completion for the current command line. If the command prefix is not unique a subsequent repeat of the key will display possible completions.

- [enter] - Auto-completes, syntax-checks then executes a command. If there is a syntax error then offending part of the command line will be highlighted and explained.
- [space] - Auto-completes, or if the command is already resolved, inserts a space.

2.3 MOVEMENT KEYS

- [CTRL-A] - Move to the start of the line.
- [CTRL-E] - Move to the end of the line.
- [up] - Move to the previous command line held in history.
- [down] - Move to the next command line held in history.
- [left] - Move the insertion point left one character.
- [right] - Move the insertion point right one character.

2.4 DELETION KEYS

- [CTRL-C] - Delete the whole line.
- [CTRL-D] - Delete the character to the right on the insertion point.
- [CTRL-K] - Delete all the characters to the right of the insertion point.
- [Backspace] - Delete the character to the left of the insertion point.

2.5 ESCAPE SEQUENCES

- !! - Substitute the last command line.
- !N - Substitute the Nth command line (absolute as per 'history' command).
- !-N - Substitute the command line entered N lines before (relative).

Chapter 3. Command Hierarchy in CLI

3.1 CLI commands can be divided into 4 categories:

- Global commands
- Show commands
- Utility commands
- Configuration commands

3.2 The router configuration is divided into 5 branches:

- Net: Network Settings
- Security: Security Settings
- System: Admin Settings
- Dot11: Wireless Settings
- Vpn: VPN Settings

Chapter 4. Global commands used in CLI

- `.exit`: Exit this session
- `.help`: Display an overview of the CLI syntax
- `.top`: Return to the default mode
- `.reboot`: Reboot the system.
- `.history`: Display the current session's command line history. Number of commands in history list can be controlled by setting limit argument; by default it is unbounded.

Chapter 5. Show commands used in CLI

The show commands for all the above mentioned branches are outlined in this section.

The command `show net ?` at the CLI prompt would give the description of all the show commands in the branch `net`, which is as follows:

| SI No | Command Name | Purpose |
|-------|--|---|
| 1 | <code>show net available_lan_host list</code> | Display available lan host list |
| 2 | <code>show net bandwidth profile setup</code> | Display bandwidth profile configuration |
| 3 | <code>show net ddns setup</code> | Display ddns configuration |
| 4 | <code>show net dhcp leased_clients list</code> | Display dhcp leased clients list |
| 5 | <code>show net dhcp reserved_ip setup</code> | Display dhcp reserved ip configuration |
| 6 | <code>show net routing dynamic setup</code> | Display dynamic routing configuration |
| 7 | <code>show net mode setup</code> | Display network mode configuration |
| 8 | <code>show net ipv6_tunnel setup</code> | Display ipv6 tunnel's configuration |
| 9 | <code>show net lan ipv4 setup</code> | Display ipv4 lan configuration |
| 10 | <code>show net mld setup</code> | Display MLD configuration |
| 11 | <code>show net port management setup</code> | Display port management configuration |
| 12 | <code>show net radvd setup</code> | Display radvd configuration |
| 13 | <code>show net routing mode setup</code> | Display routing mode configuration |
| 14 | <code>show net routing static ipv4 setup</code> | Display ipv4 static routes configuration |
| 15 | <code>show net routing static ipv6 setup</code> | Display ipv6 static routes configuration |
| 16 | <code>show net statistics</code> | Display network statistics |
| 17 | <code>show net bandwidth traffic_selector setup</code> | Display bandwidth traffic selector configurations |
| 18 | <code>show net upnp portmap</code> | Display upnp portmap |
| 19 | <code>show net upnp setup</code> | Display upnp configuration |
| 20 | <code>show net wan wan1 ipv4 setup</code> | Display ipv4 wan1 configuration |
| 21 | <code>show net wan wan1 ipv4 status</code> | Display ipv4 wan1 connection status |
| 22 | <code>show net wan wan2 ipv4 setup</code> | Display ipv4 wan2 configuration |

The command `show security ?` at the CLI prompt would give the description of all the show commands in the branch security, which is as follows:

| SI No | Command Name | Purpose |
|-------|--|---|
| 1 | <code>show security attack_checks setup</code> | Display Security Checks configuration |
| 2 | <code>show security blocked_keywords setup</code> | Display blocked keywords configuration |
| 3 | <code>show security content_filtering setup</code> | Display content filtering configuration |
| 4 | <code>show security custom_service setup</code> | Display Custom Service configuration |
| 5 | <code>show security firewall ipv4 setup</code> | Display Firewall Rules |
| 6 | <code>show security firewall ipv6 setup</code> | Display Firewall Rules |
| 7 | <code>show security ids setup</code> | Display IDS configuration |
| 8 | <code>show security ip_or_mac_binding setup</code> | Display IP/MAC Binding configuration |
| 9 | <code>show security port_triggering setup</code> | Display Port Triggering configuration |
| 10 | <code>show security schedules setup</code> | Display Schedules configuration |
| 11 | <code>show security session_settings</code> | Display Session Settings configuration |
| 12 | <code>show security mac_filter setup</code> | Display Source Mac Filter configuration |
| 13 | <code>show security trusted_domains setup</code> | Display trusted domains configuration |
| 14 | <code>show security vpn_passthrough setup</code> | Display VPN passthrough Configuration |

The command `show system ?` at the CLI prompt would give the description of all the show commands in the branch system, which is as follows:

| SI No | Command Name | Purpose |
|-------|--|---|
| 1 | <code>show system logging ipv6 setup</code> | Display logging configuration |
| 2 | <code>show system logging facility setup</code> | Display logging facility configuration |
| 3 | <code>show system logging ipv4 setup</code> | Display logging configuration |
| 4 | <code>show system radius setup</code> | Display radius configuration |
| 5 | <code>show system logging remote setup</code> | Display remote logging configuration |
| 6 | <code>show system remote_management setup</code> | Display Remote Management configuration |
| 7 | <code>show system snmp setup</code> | Display snmp configuration |
| 8 | <code>show system status</code> | Display system status |
| 9 | <code>show system time setup</code> | Display timezone and ntp configuration |
| 10 | <code>show system traffic_meter setup</code> | Display traffic meter configuration |

The command `show dot11 ?` at the CLI prompt would give the description of all the show commands in the branch dot11, which is as follows:

| SI No | Command Name | Purpose |
|-------|--|------------------------------------|
| 1 | show dot11 access point setup [ap_name] | Display access point configuration |
| 2 | Show dot11 radio setup | Display radio configuration |
| 3 | Show dot11 profile setup [profile_name] [display_qos] | Display profile configuration |

The command `show vpn ?` at the CLI prompt would give the description of all the show commands in the branch `vpn`, which is as follows:

| SI No | Command Name | Purpose |
|-------|---|---|
| 1 | show vpn ipsec dhcp setup | Show DHCP setup |
| 2 | show vpn ipsec policy setup | Show list of ipsec policies |
| 3 | show vpn ipsec policy status | Show the status of policies |
| 4 | show vpn sslvpn client | Show SSLVPN client settings |
| 5 | show vpn sslvpn policy | Show SSLVPN policy settings |
| 6 | show vpn sslvpn portal-layouts | Show SSLVPN portal layout settings |
| 7 | show vpn sslvpn portforwarding appconfig | Show SSLVPN port forwarding application configuration |
| 8 | show vpn sslvpn portforwarding hostconfig | Show SSLVPN port forwarding host configuration |
| 9 | show vpn sslvpn resource | Show SSLVPN resource settings |
| 10 | show vpn sslvpn resource-object | Show SSLVPN resource objects |
| 11 | show vpn sslvpn route | Show SSLVPN configured client routes |
| 12 | Show vpn sslv[n users users | Show List of Users |
| 13 | show vpn sslvpn users domains | Show List of Domains |
| 14 | show vpn sslvpn users groups | Show List of Groups |
| 15 | show vpn sslvpn users browser_policies | Show List of Browser Policies |
| 16 | show vpn sslvpn users ip_policies | Show List of IP Policies |
| 17 | show vpn sslvpn users login_policies | Show List of Login Policies |

Chapter 6. Utility commands used in CLI

The command `util ?` at the CLI prompt would give the description of all the utility commands in the branch `util`, which is as follows:

| SI No | Command Name | Purpose |
|-------|--|-------------------------------------|
| 1 | <code>util ping</code> | Ping or Trace an IP Address. |
| 2 | <code>util restore_factory_defaults</code> | Revert to factory default settings. |
| 3 | <code>util reboot</code> | Reboot the system |

6.1 `util ping <ip_address>`

| SI No | Command Name | Description | Type and Description |
|-------|-------------------------|-------------------------|--|
| 1 | <code>ip_address</code> | Ping target IP address. | IP Address, Ping target IP address. |

Chapter 7. Configure commands used in CLI

The configure commands for all the branches mentioned above are discussed in this section.

The command `net ?` at the CLI prompt would give the description of all the configuration commands in the branch `net`, which is as follows:

| SI No | Command Name | Purpose |
|-------|---|--|
| 1 | <code>net bandwidth profile add</code> | It allows to add a bandwidth profile. |
| 2 | <code>net bandwidth profile edit</code> | It allows to edit a bandwidth profile. |
| 3 | <code>net bandwidth profile delete</code> | It allows to delete a bandwidth profile. |
| 4 | <code>net ddns configure</code> | Ddns configuration mode |
| 5 | <code>net routing dynamic configure</code> | Dynamic routing configuration mode |
| 6 | <code>net mode configure</code> | IP Mode configuration mode |
| 7 | <code>net ipv6_tunnel isatap add</code> | Isatap tunnel configuration mode. |
| 8 | <code>net ipv6_tunnel isatap delete</code> | Delete the configured isatap tunnel |
| 9 | <code>net ipv6_tunnel isatap edit</code> | Isatap tunnel configuration mode. |
| 10 | <code>net ipv6_tunnel six_to_four automatic_tunneling enable</code> | Six to four tunnel configuration mode |
| 11 | <code>net lan dhcp reserved_ip add</code> | Dhcp reserved ip configuration mode |
| 12 | <code>net lan dhcp reserved_ip delete</code> | Delete the configured dhcp reserved ip |
| 13 | <code>net lan ipv4 configure</code> | Lan configuration mode |
| 14 | <code>net lan ipv6 configure</code> | Lan configuration mode |
| 15 | <code>net lan ipv6 pool configure</code> | Ipv6 pool configuration mode |
| 17 | <code>net mld configure</code> | MLD configuration mode |
| 18 | <code>net port management configure</code> | Port management configuration mode |
| 19 | <code>net radvd configure</code> | Radvd configuration mode |
| 20 | <code>net radvd pool add</code> | Radvd pool configuration add mode |
| 21 | <code>net radvd pool delete</code> | Radvd pool configuration delete mode |
| 22 | <code>net radvd pool edit</code> | Radvd pool configuration edit mode |
| 23 | <code>net routing mode configure</code> | Routing mode configuration |
| 24 | <code>net routing static ipv4 configure</code> | Static route configuration mode |
| 25 | <code>net routing static ipv4 delete</code> | Static route configuration delete mode |
| 26 | <code>net routing static ipv6 configure</code> | Static route configuration mode |
| 27 | <code>net routing static ipv6 delete</code> | Static route configuration delete mode |
| 28 | <code>net bandwidth traffic_selector add</code> | Traffic selector configuration mode |

| SI No | Command Name | Purpose |
|-------|---------------------------------------|--|
| 29 | net bandwidth traffic_selector edit | Traffic selector configuration edit mode |
| 30 | net bandwidth traffic_selector delete | Traffic selector configuration delete mode |
| 31 | net upnp configure | Upnp configuration mode |
| 32 | net wan wan1 ipv4 configure | Wan1 ipv4 configuration mode |
| 33 | net wan ipv6 configure | Wan ipv6 configuration mode |
| 34 | net wan wan2 ipv4 configure | Wan2 ipv4 configuration mode |
| 35 | net wan wan1-pppoeprofile | Wan1 profile configuration mode |
| 36 | net wan wan2-pppoeprofile | Wan2 profile configuration mode |

The command `security ?` at the CLI prompt would give the description of all the configuration commands in the branch `security`, which is as follows:

| SI No | Command Name | Purpose |
|-------|--|--|
| 1 | <code>security attack_checks configure</code> | security checks configuration mode. |
| 2 | <code>security blocked_keywords add</code> | blocked Keyword configuration mode. |
| 3 | <code>security blocked_keywords disable</code> | blocked Keyword configuration mode. |
| 4 | <code>security blocked_keywords delete</code> | blocked Keyword configuration mode. |
| 5 | <code>security blocked_keywords edit</code> | blocked Keyword configuration mode. |
| 6 | <code>security blocked_keywords enable</code> | blocked Keyword configuration mode. |
| 7 | <code>security content_filtering configure</code> | content filtering configuration mode. |
| 8 | <code>security custom_service add</code> | custom service configuration mode. |
| 9 | <code>security custom_service delete</code> | custom service configuration mode. |
| 10 | <code>security custom_service edit</code> | custom service configuration mode. |
| 11 | <code>security firewall ipv4 default_outbound_policy enable</code> | Firewall Settings, Default Outbound Policy configuration mode. |
| 12 | <code>security firewall ipv6 default_outbound_policy enable</code> | Firewall Settings, Default Outbound Policy configuration mode. |
| 13 | <code>security firewall ipv4 configure</code> | Firewall IPV4 rules configuration mode. |
| 14 | <code>security firewall ipv4 delete</code> | Firewall IPV4 rules configuration mode. |
| 15 | <code>security firewall ipv4 disable</code> | Firewall IPV4 rules configuration mode. |
| 16 | <code>security firewall ipv4 edit</code> | Firewall IPV4 rules configuration mode. |
| 17 | <code>security firewall ipv4 enable</code> | Firewall IPV4 rules configuration mode. |
| 18 | <code>security firewall ipv6 configure</code> | Firewall IPV6 rules configuration mode. |
| 19 | <code>security firewall ipv6 delete</code> | Firewall IPV6 rules configuration mode. |
| 20 | <code>security firewall ipv6 disable</code> | Firewall IPV6 rules configuration mode. |
| 21 | <code>security firewall ipv6 edit</code> | Firewall IPV6 rules configuration mode. |
| 22 | <code>security firewall ipv6 enable</code> | Firewall IPV6 rules configuration mode. |

| SI No | Command Name | Purpose |
|-------|-------------------------------------|---|
| 23 | security ids configure | IDS configuration mode |
| 24 | security ip_or_mac_binding add | IP/Mac Binding configuration mode |
| 25 | security ip_or_mac_binding delete | IP/Mac Binding configuration mode. |
| 26 | security ip_or_mac_binding edit | IP/Mac Binding configuration mode. |
| 27 | security port_triggering add | port triggering rules configuration mode. |
| 28 | security port_triggering delete | port triggering rules configuration mode. |
| 29 | security port_triggering edit | port triggering rules configuration mode. |
| 30 | security schedules add | Schedules configuration mode. |
| 31 | security schedules edit | Schedules configuration mode. |
| 32 | security schedules delete | Schedules configuration mode. |
| 33 | security session_settings configure | Session Settings configuration mode. |
| 34 | security mac_filter source add | Source Mac Filter configuration mode. |
| 35 | security mac_filter source delete | Source Mac Filter configuration mode. |
| 36 | security mac_filter source edit | Source Mac Filter configuration mode. |
| 37 | security mac_filter configure | Source Mac Filter configuration mode. |
| 38 | security trusted_domain add | trusted domains configuration mode. |
| 39 | security trusted_domain delete | trusted domains configuration mode. |
| 40 | security trusted_domain edit | trusted domains configuration mode. |
| 41 | security vpn_passthrough configure | VPN Passthrough configuration mode. |

The command system ? at the CLI prompt would give the description of all the configuration commands in the branch system, which is as follows:

| SI No | Command Name | Purpose |
|-------|---|---------------------------------------|
| 1 | system logging facility configure <facility_type> | Facility logging configuration mode |
| 2 | system logging ipv4 configure | Firewall ipv4 logs configuration mode |
| 3 | system logging ipv6 configure | Firewall ipv6 logs configuration mode |
| 4 | system logging remote configure | Remote logging configuration mode |
| 5 | system radius configure <radius_server> | Radius configuration mode |
| 6 | system radius delete <radius_server> | Radius configuration delete mode |
| 6 | system remote_management https configure | Remote management configuration mode |
| 7 | system snmp sys configure | Snmp system configuration mode |
| 8 | system snmp trap configure <agent_ip> | Snmp trap configuration mode |
| 9 | system snmp trap delete <agent_ip> | Snmp trap configuration delete mode |
| 10 | system time configure | Ntp time configuration mode |
| 11 | system traffic_meter configure | Traffic meter configuration mode |

| SI No | Command Name | Purpose |
|-------|-------------------------------------|----------------------------------|
| 12 | system users idle_timeout <timeout> | Admin idle timeout configuration |
| 13 | system users password <user_string> | Users password configuration |

The command `vpn ?` at the CLI prompt would give the description of all the configuration commands in the branch `vpn`, which is as follows:

| SI No | Command Name | Purpose |
|-------|---|---|
| 1 | vpn ipsec policy connect | Command used to establish vpn connection |
| 2 | vpn ipsec policy drop | Command used to drop vpn connection |
| 3 | vpn ipsec policy configure | Command used to configure vpn policy (It may be auto or manual) |
| 4 | vpn ipsec policy delete | Command to delete vpn policy |
| 5 | vpn ipsec policy enable | Command to enable vpn policy |
| 6 | vpn ipsec policy disable | Command to disable vpn policy |
| 7 | vpn ipsec dhcp configure | Command to configure DHCP |
| 8 | vpn sslvpn client | SSLVPN Client configuration mode |
| 9 | vpn sslvpn policy add | SSLVPN policy add mode |
| 10 | vpn sslvpn policy edit | SSLVPN policy edit mode |
| 11 | vpn sslvpn policy delete | SSLVPN policy delete mode |
| 12 | vpn sslvpn portal-layouts add | SSLVPN portal layout add mode |
| 13 | vpn sslvpn portal-layouts edit | SSLVPN portal layout edit mode |
| 14 | vpn sslvpn portal-layouts delete | SSLVPN portal layout delete mode |
| 15 | vpn sslvpn portal-layouts set-default | SSLVPN portal layout set default mode |
| 16 | vpn sslvpn portforwarding appconfig add | SSLVPN application configuration add rule mode |
| 17 | vpn sslvpn portforwarding appconfig delete | SSLVPN application configuration delete rule mode |
| 18 | vpn sslvpn portforwarding hostconfig add | SSLVPN host configuration add rule mode |
| 19 | vpn sslvpn portforwarding hostconfig delete | SSLVPN host configuration delete rule mode |
| 20 | vpn sslvpn resource add | SSLVPN resource add mode |
| 21 | vpn sslvpn resource delete | SSLVPN resource delete mode |
| 22 | vpn sslvpn resource configure add | SSLVPN resource object add mode |
| 23 | vpn sslvpn resource configure delete | SSLVPN resource object delete mode |
| 24 | vpn sslvpn route add | SSLVPN client route add mode |
| 25 | vpn sslvpn route delete | SSLVPN client route delete mode |
| 26 | vpn sslvpn users users add | Users add mode |
| 27 | vpn sslvpn users users edit | Users edit mode |
| 28 | vpn sslvpn users users delete | Users delete mode |
| 29 | vpn sslvpn users domains add | Domains add mode |

| SI No | Command Name | Purpose |
|-------|--|-------------------------------------|
| 30 | vpn sslvpn users domains edit | Domains edit mode |
| 31 | vpn sslvpn users domains delete | Domains delete mode |
| 32 | vpn sslvpn users groups add | Groups add mode |
| 33 | vpn sslvpn users groups edit | Groups edit mode |
| 34 | vpn sslvpn users groups delete | Groups delete mode |
| 35 | vpn sslvpn users users ip_policies configure | Ip policies configure mode |
| 36 | vpn sslvpn users users ip_policies delete | Ip policies delete mode |
| 37 | vpn sslvpn users users browser_policies | Browser policies configuration mode |
| 38 | vpn sslvpn users users login_policies | Login policies configuration mode |

The command `dot11 ?` at the CLI prompt would give the description of all the configuration commands in the branch `dot11`, which is as follows:

| SI No | Command Name | Purpose |
|-------|--------------------------------|---|
| 1 | dot11 access point configure | 802.11 access point configuration mode |
| 2 | dot11 access point delete | Delete an 802.11 access point. |
| 3 | dot11 access point disable | Disable an 802.11 access point. |
| 4 | dot11 access point enable | Enable an 802.11 access point. |
| 5 | dot11 access point mac add | Add a MAC Address to ACL List of an AP |
| 6 | dot11 access point mac delete | Delete a MAC Address from an ACL List of an AP. |
| 7 | dot11 radio advanced configure | 802.11 advanced radio configuration mode. |
| 8 | dot11 radio configure | 802.11 radio configuration mode. |
| 9 | dot11 profile configure | 802.11 profile configuration mode. |
| 10 | dot11 profile delete | Delete an 802.11 profile. |

Each of the above listed commands has in turn a set of sub-commands to fulfill the requirements. The command – subcommand list is given in following sections.

Chapter 8. Configuration commands under branch NET

8.1 net bandwidth profile enable

| SI No | Command Name | Description | Type and Description |
|-------|--------------|--------------------------------------|---|
| 1 | enable | Enable or disable bandwidth profiles | Boolean (Y/N) Enable/ Disable bandwidth profiles |

8.2 net bandwidth profile add/edit

| SI No | Command Name | Description | Type and Description |
|-------|--------------|---|---|
| 1 | cancel | Roll back bandwidth Profile configuration changes. | |
| 2 | exit | Save bandwidth Profile configuration changes and exit current mode. | |
| 3 | maximum_rate | Maximum Bandwidth provided by user. | Maximum Bandwidth rate 100-100000 Kbps |
| 4 | minimum_rate | Minimum Bandwidth provided by user | Minimum Bandwidth provided by user. (0..100000) |
| 5 | name | Unique Profile Name. | STRING, profile name |
| 6 | priority | Priority. | Priority type (low/medium/high) |
| 7 | save | Save bandwidth profile configuration changes. | |
| 8 | type | Profile Type, either Priority or Rate | Profile type (Priority/Rate) |

8.3 net bandwidth profile delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|---|-----------------------------------|
| 1 | row_id | Row Id of the bandwidth profile to be deleted | Unsigned integer Row id number |

8.4 net ddns configure

| SI No | Command Name | Description | Type and Description |
|-------|--------------|---|---|
| 1 | enable | Enable or disable Dyndns to provide Dynamic DNS service | Boolean (Y/N) Enable/ Disable DDNS service |
| 2 | hostname | Set Hostname | String Host name |
| 3 | username | Set username. | String Username. |
| 4 | password | Set Password. | String |

| SI No | Command Name | Description | Type and Description |
|-------|--------------------|---|--|
| | | | Password. |
| 5 | wild_flag_enable | Enable / Disable using wild cards | Boolean (Y/N) Wildcard flag |
| 6 | time_update_enable | Set Timeperiod as 30 days | Boolean (Y/N) Update for every 30 days or not |
| 7 | cancel | Roll back DDNS configuration changes | |
| 8 | exit | Save DDNS configuration changes and exit current mode | |
| 9 | save | Save DDNS configuration changes | |

8.5 net ipv6_tunnel isatap add/edit

| SI No | Command Name | Description | Type and Description |
|-------|----------------|--|--|
| 1 | end_point_type | This is the endpoint address for the tunnel that starts with this router. The endpoint can be the LAN interface (assuming the LAN is an IPv4 network), or a specific LAN IPv4 address. | Local end point address type (LAN/Other_IP), |
| 2 | ipv4_address | The local end point address if not the LAN IPv4 address | IP Address The local end point address |
| 3 | subnet_prefix | This is the 64-bit subnet prefix that is assigned to the logical | String, subnet prefix |
| 4 | cancel | Roll back isatap tunnel configuration changes. | |
| 5 | exit | Save isatap tunnel configuration changes and exit current mode. | |
| 6 | save | Save isatap tunnel configuration changes. | |

8.6 net ipv6_tunnel isatap delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|------------------------------------|-----------------------------------|
| 1 | row_id | Row Id of the tunnel to be deleted | Unsigned integer Row id number |

8.7 net ipv6_tunnel six_to_four configure

| SI No | Command Name | Description | Type and Description |
|-------|----------------------------|---|--|
| 1 | automatic_tunneling_enable | Enable/disable automatic tunneling which will allow traffic from an IPv6 LAN to be tunneled through a IPv4 WAN to reach an IPv6 network | Boolean (Y/N) Enable/ Disable automatic tunneling |

8.8 net lan dhcp reserved_ip add

| SI No | Command Name | Description | Type and Description |
|-------|--------------|--|--|
| 1 | mac_address | Reserved mac address used to add/edit | MAC address Reserved Mac address you want to add/edit |
| 2 | ip_address | IP Address to be reserved | IP Address IP Address to be reserved |
| 3 | cancel | Roll back DHCP Reserved IPs configuration changes | |
| 4 | exit | Save DHCP Reserved IPs configuration changes and exit current mode | |
| 5 | save | Save DHCP Reserved IPs configuration changes | |

8.9 net lan dhcp reserved_ip delete <mac_address>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|-------------------------------------|--|
| 1 | mac_address | Reserved mac address used to delete | MAC address Reserved Mac address you want to delete |

8.10 net lan group add <name>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|---------------------------|-----------------------|
| 1 | name | Unique groups name String | String, Group name |

8.11 net lan group delete <name>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|---------------------------|-----------------------|
| 1 | name | Unique groups name String | String, Group name |

8.12 net lan host add/edit

| SI No | Command Name | Description | Type and Description |
|-------|--------------|--|---------------------------------------|
| 1 | group_name | Name of the group to which host belongs | String group name |
| 2 | ip_address | ip address of the host | IP Address, IP Address of the host |
| 3 | cancel | Roll back lan host configuration changes | |
| 4 | exit | Save lan host configuration changes | |

| SI No | Command Name | Description | Type and Description |
|-------|--------------|-------------------------------------|----------------------|
| | | and exit current mode | |
| 5 | save | Save lan host configuration changes | |

8.13 net lan host delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|----------------------------------|-----------------------------------|
| 1 | row_id | row id of lan host to be deleted | Unsigned integer Row id number |

8.14 net lan ipv4 configure

| SI No | Command Name | Description | Type and Description |
|-------|----------------|--------------------------------|-----------------------------------|
| 1 | static address | Set system LAN IP address. | IP Address, System lan address |
| 14 | save | Save LAN configuration changes | |

8.15 net lan ipv6 configure

| SI No | Command Name | Description | Type and Description |
|-------|------------------------|---|--|
| 1 | static address | Set system LAN IP address. | IP address, System lan ipv6 address |
| 2 | static prefix_length | Set prefix length. | Integer, Prefix length |
| 3 | dhcp domain_name | Set DHCP Server's Domain Name. | String, Domain name |
| 4 | dhcp rebind_time | Set system Lease Time. | Integer, number in range of 0 to 604800 |
| 5 | dhcp mode | Set dhcpv6 mode. | Dhcp mode type, Stateless/Stateful |
| 6 | dhcp dns_type | Set dns server type | Dns server types, useDnsProxy/useDnsFromISP/use EnteredDns |
| 7 | dhcp primary_dns | Set primary dns server. | IP Address, Primary dns address |
| 8 | dhcp secondary_dns | Set secondary dns server. | IP Address, Secondary dns address |
| 9 | dhcp server_enable | Set dhcpv6 server status | Dhcp server status, Boolean Choice (Y/N) |
| 10 | dhcp server_preference | server preference number | Integer, Dhcp server preference number |
| 11 | cancel | Roll back LAN configuration changes | |
| 12 | exit | Save LAN configuration changes and exit current mode | |

| SI No | Command Name | Description | Type and Description |
|-------|--------------|--------------------------------|----------------------|
| 13 | save | Save LAN configuration changes | |

8.16 net lan ipv6 pool configure <start_address>

| SI No | Command Name | Description | Type and Description |
|-------|---------------|---|--|
| 1 | start_address | Set dhcpv6 start IP address. | IP address abcd:abcd:abcd:abcd:abcd:abcd:a bcd:abcd where each part is in the range |
| 2 | end_address | Set dhcpv6 end IP address. | IP address abcd:abcd:abcd:abcd:abcd:abcd:a bcd:abcd where each part is in the range |
| 3 | prefix | Set dhcpv6 prefix length. | Unsigned integer, Prefix length |
| 4 | cancel | Roll back ipv6 pool configuration changes | |
| 5 | exit | Save ipv6 pool configuration changes and exit current mode | |
| 6 | save | Save ipv6 pool configuration changes | |

8.17 net lan ipv6 pool delete <start_address>

| SI No | Command Name | Description | Type and Description |
|-------|---------------|------------------------------|--|
| 1 | start_address | Set dhcpv6 start IP address. | IP address abcd:abcd:abcd:abcd:abcd:abcd:a bcd:abcd where each part is in the range |

8.18 net mld configure

| SI No | Command Name | Description | Type and Description |
|-------|---------------------|--|--|
| 1 | enable | Select Yes to enable MLD when this router is in IPv6 mode. | Enable/disable MLD proxy , Boolean choice (Y/N) |
| 2 | max_response_time | This is the maximum amount of time in seconds that can elapse between this router sending a host-query message. | Integer, Response time |
| 3 | query_interval | The Query Interval variable denotes the interval between General Queries sent by the Querier. The default value is 125 seconds. | Integer, Query interval |
| 4 | robustness_variable | The Robustness Variable allows tuning for the expected packet loss on a link. | Integer, Robustness variable |
| 5 | cancel | Roll back mld configuration changes | |
| 6 | exit | Save mld configuration changes and | |

| SI No | Command Name | Description | Type and Description |
|-------|--------------|--------------------------------|----------------------|
| | | exit current mode | |
| 7 | save | Save mld configuration changes | |

8.19 net mode configure

| SI No | Command Name | Description | Type and Description |
|-------|--------------|---|---|
| 1 | ip_type | Select IPv4 only or IPv4/IPv6 mode. | Ip mode type, IPv4 only or IPv4 and IPv6. |
| 2 | cancel | Roll back mode configuration changes | |
| 3 | exit | Save mode configuration changes and exit current mode | |
| 4 | save | Save mode configuration changes | |

8.20 net port management configure <port_name>

| SI No | Command Name | Description | Type and Description |
|-------|-------------------------|---|---|
| 1 | port_name | port name LAN/WAN to manage dedicated port's | Port name, Port1-LAN/Port2-WAN |
| 2 | auto_negotiation_enable | Select this to let the gateway and network to determine the optimal port settings. | Boolean Choice (Y/N) Enable/disable auto negotiation option, |
| 3 | duplex_mode | Choose between Half Duplex and Full Duplex based on the port support. The default is Full Duplex for all ports. | Duplex mode type, Half or full |
| 4 | enable | Enable/Disable the port status | Boolean choice (Y/N), Port status enable/disable |
| 5 | speed | One of three port speeds can be selected: 10 Mbps, 100 Mbps and 1000 Mbps (i.e. 1 Gbps). The default setting is 1000 Mbps for all ports | Port speed type, 10/100/1000 |
| 6 | cancel | Roll back port management configuration changes | |
| 7 | exit | Save port management configuration changes and exit current mode | |
| 8 | save | Save port management configuration changes | |

8.21 net radvd configure

| SI No | Command Name | Description | Type and Description |
|-------|--------------|---|---------------------------------------|
| 1 | enable | Enable the RADVD process here to allow stateless auto configuration of the IPv6 LAN network | Boolean choice (Y/N), Radvd status |

| SI No | Command Name | Description | Type and Description |
|-------|----------------------|--|---|
| 2 | life_time | The lifetime in seconds of the route. The default is 3600 seconds. | Integer, Advertisement Lifetime |
| 3 | mode | select N to send router advertisements (RA's) to all interfaces else Y | Boolean Choice (Y/N), Advertisement mode status |
| 4 | mtu | This is used in RA's to ensure all nodes on the network use the same MTU value in the cases where the LAN MTU is not well known. The default is 1500 | Mtu size, It takes value between 1200 to 1500. |
| 5 | preference | Chose between low/medium/high for the preference associated with this router's RADVD process | Radvd preference type, Low/medium/high |
| 6 | flags managed_enable | Chose Managed to use the administered /stateful protocol for address auto configuration | Boolean choice (Y/N) Enable or disable the managed flag |
| 7 | flags other_enable | the Other flag is selected the host uses administered/stateful protocol of other (i.e. non-address) information auto configuration. | Boolean choice (Y/N), Enable or disable other flags |
| 8 | cancel | Roll back radvd configuration changes | |
| 9 | exit | Save radvd configuration changes and exit current mode | |
| 10 | Save | Save radvd configuration changes | |

8.22 net radvd pool add/edit

| SI No | Command Name | Description | Type and Description |
|-------|------------------|---|--|
| 1 | prefix_address | It specifies the IPv6 network address | prefix address, abcd:abcd:abcd:abcd:abcd:abcd:abcd:abcd where each part is in the range [0-9A-Fa-f:] |
| 2 | prefix_length | The prefix length variable is a decimal value that indicates the number of contiguous, higher order bits of the address that make up the network portion of the address | Integer, Prefix length |
| 3 | prefix_life_time | The length of time over which the requesting router is allowed to use the prefix | Integer, Life time value |
| 4 | prefix_type | Option whether to select the prefix type as 6to4 or Global/Local/ISATAP | IPv6 prefix type, 6To4/Global/Local/ISATAP |
| 5 | sla_id | The SLA ID (Site-Level Aggregation Identifier) in the 6to4 address prefix is set to the interface ID of the interface on which the advertisements are sent | Integer, Site-Level Aggregation Identifier |
| 6 | cancel | Roll back mode configuration changes | |
| 7 | exit | Save mode configuration changes and exit current mode | |
| 8 | save | Save mode configuration changes | |

8.23 net radvd pool delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|---|-----------------------------------|
| 1 | row_id | Row Id of the multihoming entry to be deleted | Unsigned integer Row id number |

8.24 net routing dynamic configure

| SI No | Command Name | Description | Type and Description |
|-------|-----------------------------|--|---|
| 1 | authentication_enable | Enable/Disable Authentication for RIP-2B/2M | Boolean Choice (Y/N) Authentication status for RIP-2B/2M |
| 2 | direction | rip direction None, In only, Out only, Both. | Rip direction type, None/In-only/Out-only/Both |
| 3 | ripng_enable | Enable/Disable the RIPNG functionality | Boolean Choice (Y/N) Enable or disable ripng status |
| 4 | version | Rip version | Rip version type, Disabled/Rip1/Rip2B/Rip2M |
| 5 | first_key authentication_id | First MD5 Authentication Key | String, Alphanumeric md5 authentication key |
| 6 | first_key id_number | First MD5 Key Id | Integer, Unique md5 key identifier |
| 7 | first_key valid_from day | day in which md5 authentication key validity starts | Day in the format DD(01-31) |
| 8 | first_key valid_from hour | hour in which md5 authentication key validity starts | HH(00-23) using 24 hour clock |
| 9 | first_key valid_from minute | minute in which md5 authentication key validity starts | minute in the format MM(00-59) |
| 10 | first_key valid_from month | month in which md5 authentication key validity starts | Month in the format MM(01-12) |
| 11 | first_key valid_from second | second in which md5 authentication key validity starts | Second in the format SS(00-59) |
| 12 | first_key valid_from year | year in which md5 authentication key validity starts | Year , valid range is 1970 to 2037 |
| 13 | first_key valid_to day | day in which md5 authentication key validity ends | Day in the format DD(01-31) |
| 14 | first_key valid_to hour | hour in which md5 authentication key validity ends | HH(00-23) using 24 hour clock |
| 15 | first_key valid_to minute | minute in which md5 authentication key validity ends | minute in the format MM(00-59) |
| 16 | first_key valid_to month | month in which md5 authentication key validity ends | Month in the format MM(01-12) |
| 17 | first_key valid_to first | first in which md5 authentication key validity ends | Second in the format SS(00-59) |
| 18 | first_key valid_to year | year in which md5 authentication key validity ends | Year , valid range is 1970 to 2037 |

| SI No | Command Name | Description | Type and Description |
|-------|------------------------------|--|--|
| 19 | second_key authentication_id | second MD5 Authentication Key | String, Alphanumeric md5 authentication key |
| 20 | second_key id_number | second MD5 Key Id | Integer, Unique md5 key identifier |
| 21 | second_key valid_from day | day in which md5 authentication key validity starts | Day in the format DD(01-31) |
| 22 | second_key valid_from hour | hour in which md5 authentication key validity starts | HH(00-23) using 24 hour clock |
| 23 | second_key valid_from minute | minute in which md5 authentication key validity starts | minute in the format MM(00-59) |
| 24 | second_key valid_from month | month in which md5 authentication key validity starts | Month in the format MM(01-12) |
| 25 | second_key valid_from second | second in which md5 authentication key validity starts | Second in the format SS(00-59) |
| 26 | second_key valid_from year | year in which md5 authentication key validity starts | Year , valid range is 1970 to 2037 |
| 27 | second_key valid_to day | day in which md5 authentication key validity ends | Day in the format DD(01-31) |
| 28 | second_key valid_to hour | hour in which md5 authentication key validity ends | HH(00-23) using 24 hour clock |
| 29 | second_key valid_to minute | minute in which md5 authentication key validity ends | minute in the format MM(00-59) |
| 30 | second_key valid_to month | month in which md5 authentication key validity ends | Month in the format MM(01-12) |
| 31 | second_key valid_to second | second in which md5 authentication key validity ends | Second in the format SS(00-59) |
| 32 | second_key valid_to year | year in which md5 authentication key validity ends | Year , valid range is 1970 to 2037 |
| 33 | cancel | Roll back rip configuration changes. | |
| 34 | exit | Save dynamic routes changes and exit current mode. | |
| 35 | save | Save dynamic route changes. | |

8.25 net routing mode configure

| SI No | Command Name | Description | Type and Description |
|-------|--------------|--|---|
| 1 | cancel | Roll back routing mode configuration changes. | |
| 2 | exit | Save routing mode configuration changes and exit current mode. | |
| 3 | save | Save routing mode configuration changes. | |
| 4 | type | Select NAT or Classical Routing mode. | Routing mode type, NAT / Classical routing |

8.26 net routing static ipv4 configure <name>

| SI No | Command Name | Description | Type and Description |
|-------|---------------------|---|---|
| 1 | name | Unique route name | String, Route name |
| 2 | active_flag | Defines whether its an active route | Boolean choice (Y/N), Set/unset the active flag |
| 3 | destination_address | Set the destination IP. | IP Address, Destination address |
| 4 | gateway_address | Set the gateway ip address | IP Address, Gateway address |
| 5 | interface | Set interface for which the route is applied | String, Valid strings (LAN/WAN) |
| 6 | metric | Set the metric for this route | Integer value, Valid metric 2-15 |
| 7 | private_flag | Defines whether the route can be shared with other gateways when RIP is enabled | Boolean Choice (Y/N), Set/unset the private flag |
| 8 | subnet_mask | Set the subnet for this rule. | IP address, Subnet mask |
| 9 | cancel | Roll back route configuration changes. | |
| 10 | exit | Save static routes changes and exit current mode. | |
| 11 | save | Save static route changes. | |

8.27 net routing static ipv4 delete <name>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|-------------------|-----------------------|
| 1 | name | Unique route name | String, Route name |

8.28 net routing static ipv6 configure <name>

| SI No | Command Name | Description | Type and Description |
|-------|---------------------|--|--|
| 1 | name | Unique route name | String, Route name |
| 2 | active_flag | Defines whether its an active route | Boolean choice (Y/N), Set/unset the active flag |
| 3 | destination_address | Set the destination IP. | IP Address, Destination address |
| 4 | gateway_address | Set the gateway ip address | IP Address, Gateway address |
| 5 | interface | Set interface for which the route is applied | Interface type, Dedicated-WAN/LAN/6to4-WAN |

| SI No | Command Name | Description | Type and Description |
|-------|--------------|---|-------------------------------------|
| 6 | metric | Set the metric for this route | Integer value, Valid metric 2-15 |
| 7 | prefix | Set the prefix length for this rule. | Integer, Prefix length |
| 8 | cancel | Roll back route configuration changes. | |
| 9 | exit | Save static routes changes and exit current mode. | |
| 10 | save | Save static route changes. | |

8.29 net routing static ipv6 delete <name>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|-------------------|-----------------------|
| 1 | name | Unique route name | String, Route name |

8.30 net upnp configure

| SI No | Command Name | Description | Type and Description |
|-------|----------------------------|---|--|
| 1 | advertisement period | UPnP Advertisement Period | UPnP Advertisement Period. Valid range is 1 to 86400 |
| 2 | advertisement time_to_live | Set Advertisement Time To Live (in seconds) | UPnP Advertisement Time To Live. Valid range is 1 to 255 |
| 3 | Enable | Enable/Disable upnp | Boolean choice (Y/N), Upnp status |
| 4 | Cancel | Roll back upnp configuration changes | |
| 5 | exit | Save upnp configuration changes and exit current mode | |
| 6 | save | Save upnp configuration changes | |

8.31 net wan wan1 ipv4 configure

| SI No | Command Name | Description | Type and Description |
|-------|-------------------|--|--|
| 1 | dhcpc mac_address | This command allows you to set the MAC address. | MAC Address, Its format is XX:XX:XX:XX:XX:XX where X is a number from 0 to 9 (inclusive) or an alphabetical letter between A and F (inclusive). |
| 2 | dhcpc mac_type | The default is set to Use Default Address. If your ISP requires MAC authentication and another MAC address has been previously registered with your ISP, then select either Use this computer's MAC address or select Use This MAC Address and manually enter in the MAC address expected by your ISP. | Types of mac address source, Use-Default-Mac/Use-This-Computers-Mac/Use-This-Mac |

| SI No | Command Name | Description | Type and Description |
|-------|---------------------------|--|---|
| 3 | dhcpc hostname | Set hostname | String, setting Dhcp hostname |
| 4 | dhcpc get_dns_from_isp | Enter Yes to get dns dynamically from ISP otherwise Enter No and give valid static dns addresses | Boolean Choice (Y/N), Enter Yes to get dns dynamically from ISP otherwise Enter No and give valid static dns addresses |
| 5 | dhcpc primary_dns | Valid primary DNS Server IP Address | IP Address, Primary dns |
| 6 | dhcpc secondary_dns | Valid secondary DNS Server IP Address | IP address, Secondary dns |
| 7 | isp require_login | Select this option if your connection type is one of PPPoE, PPTP or L2TP | Boolean Choice (Y/N), Set Y if your connection type is once of PPPoE, PPTP or L2TP otherwise N. |
| 8 | isp_connection_type | Select among the options: STATIC, DHCP, PPPoE, PPTP, or L2TP | ISP Types. STATIC/DHCP/PPPOE/PPTP/L2TP |
| 9 | l2tp connectivity_type | Set connectivity type | ISP Connectivity Types. keepalive/idletimeout |
| 10 | l2tp idle_time | Set idle timeout value | idle timeout value type. Valid range is 5 to 999 |
| 11 | l2tp my_address | IP address assigned by the ISP to make a connection with the ISP server | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 12 | l2tp password | Enter the password to log in. | String, Alphanumeric password |
| 13 | l2tp secret | Enter the secret phrase to log into the server | String, Alphanumeric server secret phrase |
| 14 | l2tp server_address | IP address of the L2TP server | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 15 | l2tp username | Enter the username to log in | String, Alphanumeric username |
| 16 | l2tp split_tunnel | Set Split Tunnel Mode | Boolean Choice(Y/N) |
| 17 | L2tp get_dns_from_isp | Enter Yes to get dns dynamically from ISP otherwise Enter No and give valid static dns addresses | Boolean Choice (Y/N), Enter Yes to get dns dynamically from ISP otherwise Enter No and give valid static dns addresses |
| 18 | l2tp primary_dns | Valid primary DNS Server IP Address | IP Address, Primary dns |
| 19 | l2tp secondary_dns | Valid secondary DNS Server IP Address | IP address, Secondary dns |
| 20 | pptp connectivity_type | Set connectivity type | ISP Connectivity Types. keepalive/idletimeout |
| 21 | pptp idle_time | Set idle timeout value | idle timeout value type. Valid range is 5 to 999 |
| 22 | pptp my_address | IP address assigned by the ISP to make a connection with the ISP server | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |

| SI No | Command Name | Description | Type and Description |
|-------|-----------------------|--|--|
| 23 | pptp password | Enter the password to log in. | String, Alphanumeric password |
| 24 | pptp server_address | IP address of the PPTP server | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 25 | pptp username | Enter the username to log in | String, Alphanumeric username |
| 26 | pptp get_dns_from_isp | Enter Yes to get dns dynamically from ISP otherwise Enter No and give valid static dns addresses | Boolean Choice (Y/N), Enter Yes to get dns dynamically from ISP otherwise Enter No and give valid static dns addresses |
| 27 | pptp primary_dns | Valid primary DNS Server IP Address | IP Address, Primary dns |
| 28 | pptp secondary_dns | Valid secondary DNS Server IP Address | IP address, Secondary dns |
| 29 | pptp mmpe_encryption | Set Mmpe Encryption | Boolean Choice (Y/N) |
| 30 | pppoe profile1 | Enable first PPPOE profile | Boolean Choice (Y/N) |
| 31 | pppoe profile2 | Enable second PPPOE profile | Boolean Choice (Y/N) |
| 32 | cancel | Roll back wan configuration changes | |
| 33 | exit | Save wan configuration changes and exit current mode | |
| 34 | save | Save wan configuration changes | |

8.32 net wan wan2 ipv4 configure

| SI No | Command Name | Description | Type and Description |
|-------|-------------------|--|---|
| 1 | dhcpc mac_address | This command allows you to set the MAC address. | MAC Address, Its format is XX:XX:XX:XX:XX:XX where X is a number from 0 to 9 (inclusive) or an alphabetical letter between A and F (inclusive). |
| 2 | dhcpc mac_type | The default is set to Use Default Address. If your ISP requires MAC authentication and another MAC address has been previously registered with your ISP, then select either Use this computer's MAC address or select Use This MAC Address and manually enter in the MAC address expected by your ISP. | Types of mac address source, Use-Default-Mac/Use-This-Computers-Mac/Use-This-Mac |
| 10 | l2tp idle_time | Set idle timeout value | idle timeout value type. Valid range is 5 to 999 |
| 11 | l2tp my_address | IP address assigned by the ISP to make a connection with the ISP server | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |

| SI No | Command Name | Description | Type and Description |
|-------|------------------------|--|--|
| 12 | l2tp password | Enter the password to log in. | String, Alphanumeric password |
| 13 | l2tp secret | Enter the secret phrase to log into the server | String, Alphanumeric server secret phrase |
| 14 | l2tp server_address | IP address of the L2TP server | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 15 | l2tp username | Enter the username to log in | String, Alphanumeric username |
| 16 | l2tp split_tunnel | Set Split Tunnel Mode | Boolean Choice(Y/N) |
| 17 | L2tp get_dns_from_isp | Enter Yes to get dns dynamically from ISP otherwise Enter No and give valid static dns addresses | Boolean Choice (Y/N), Enter Yes to get dns dynamically from ISP otherwise Enter No and give valid static dns addresses |
| 18 | l2tp primary_dns | Valid primary DNS Server IP Address | IP Address, Primary dns |
| 19 | l2tp secondary_dns | Valid secondary DNS Server IP Address | IP address, Secondary dns |
| 20 | pptp connectivity_type | Set connectivity type | ISP Connectivity Types. keepalive/idletimeout |
| 21 | pptp idle_time | Set idle timeout value | idle timeout value type. Valid range is 5 to 999 |
| 22 | pptp my_address | IP address assigned by the ISP to make a connection with the ISP server | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 23 | pptp password | Enter the password to log in. | String, Alphanumeric password |
| 24 | pptp server_address | IP address of the PPTP server | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 25 | pptp username | Enter the username to log in | String, Alphanumeric username |
| 26 | pptp get_dns_from_isp | Enter Yes to get dns dynamically from ISP otherwise Enter No and give valid static dns addresses | Boolean Choice (Y/N), Enter Yes to get dns dynamically from ISP otherwise Enter No and give valid static dns addresses |
| 27 | pptp primary_dns | Valid primary DNS Server IP Address | IP Address, Primary dns |
| 28 | pptp secondary_dns | Valid secondary DNS Server IP Address | IP address, Secondary dns |
| 29 | pptp mmpe_encryption | Set Mmpe Encryption | Boolean Choice (Y/N) |
| 30 | pppoe profile1 | Enable first PPPOE profile | Boolean Choice (Y/N) |
| 31 | pppoe profile2 | Enable second PPPOE profile | Boolean Choice (Y/N) |
| 32 | threeg apn | | |
| 33 | threeg authMethod | Setting Threeg authentication methods | authMethods like PAP/CHAP/NONE |
| 34 | threeg username | Enter the username to log in | String, |

| SI No | Command Name | Description | Type and Description |
|-------|--------------------------|--|---|
| | | | Alphanumeric username |
| 35 | threeg password | Enter the password to log in | String, Alphanumeric password |
| 36 | threeg get_dns_from_isp | Enter Yes to get dns dynamically from ISP otherwise Enter No and give valid static dns addresses | Boolean Choice (Y/N), Enter Yes to get dns dynamically from ISP otherwise Enter No and give valid static dns addresses |
| 37 | threeg primary_dns | Valid primary DNS Server IP Address | IP Address, Primary dns |
| 38 | threeg secondary_dns | Valid secondary DNS Server IP Address | IP address, Secondary dns |
| 39 | threeg connectivity_type | Set connectivity type | ISP Connectivity Types. keepalive/idletimeout |
| 40 | threeg dial_number | Enter the number to dial in | String Type |
| | | | |
| 4127 | Cancel | Roll back wan configuration changes | |
| 4228 | Exit | Save wan configuration changes and exit current mode | |
| 4329 | Save | Save wan configuration changes | |

8.33 net wan wan1-pppoeprofile add *prof_name*

| SI No | Command Name | Description | Type and Description |
|-------|-------------------|--|---|
| 1 | username | Enter the username to log in | String, Alphanumeric username |
| 2 | password | Enter the password to log in | String, Alphanumeric password |
| 3 | authOpt | Setting authentication options | Authentication option types like(Auto/PAP/CHAP/MS-CHAP/MS-CHAPv2) |
| 4 | connectivity_type | Set connectivity type | ISP Connectivity Types. keepalive/idletimeout |
| 5 | get_dns_from_isp | Enter Yes to get dns dynamically from ISP otherwise Enter No and give valid static dns addresses | Boolean Choice (Y/N), Enter Yes to get dns dynamically from ISP otherwise Enter No and give valid static dns addresses |
| 6 | primary_dns | Valid primary DNS Server IP Address | IP Address, Primary dns |
| 7 | secondary_dns | Valid secondary DNS Server IP Address | IP address, Secondary dns |
| 8 | get_ip_from_isp | Getting the ip mode type weather to get from ISP or static IP | Boolean Choice(Y/N) |
| 9 | static_ip | Setting static ip address if not obtaining the IP from ISP | IP address Static Ip |

| SI No | Command Name | Description | Type and Description |
|-------|--------------|--|---------------------------|
| 10 | subnet_mask | Setting Subnet Mask if not obtaining from ISP | IP address Subnet Mask |
| 11 | Service | Setting optional service name | String type |
| 12 | cancel | Roll back wan configuration changes | |
| 13 | exit | Save wan configuration changes and exit current mode | |
| 14 | save | Save wan configuration changes | |

8.34 net wan wan2-pppoeprofile add *prof_name*

| SI No | Command Name | Description | Type and Description |
|-------|-------------------|--|---|
| 1 | username | Enter the username to log in | String, Alphanumeric username |
| 2 | password | Enter the password to log in | String, Alphanumeric password |
| 3 | authOpt | Setting authentication options | Authentication option types like(Auto/PAP/CHAP/MS-CHAP/MS-CHAPv2) |
| 4 | connectivity_type | Set connectivity type | ISP Connectivity Types. keepalive/idletimeout |
| 5 | get_dns_from_isp | Enter Yes to get dns dynamically from ISP otherwise Enter No and give valid static dns addresses | Boolean Choice (Y/N), Enter Yes to get dns dynamically from ISP otherwise Enter No and give valid static dns addresses |
| 6 | primary_dns | Valid primary DNS Server IP Address | IP Address, Primary dns |
| 7 | secondary_dns | Valid secondary DNS Server IP Address | IP address, Secondary dns |
| 8 | get_ip_from_isp | Getting the ip mode type weather to get from ISP or static IP | Boolean Choice(Y/N) |
| 9 | static_ip | Setting static ip address if not obtaining the IP from ISP | IP address Static Ip |
| 10 | subnet_mask | Setting Subnet Mask if not obtaining from ISP | IP address Subnet Mask |
| 11 | Service | Setting optional service name | String type |
| 12 | cancel | Roll back wan configuration changes | |
| 13 | exit | Save wan configuration changes and exit current mode | |
| 14 | save | Save wan configuration changes | |

8.35 net wan wan1-pppoeprofile edit *prof_name*

| SI No | Command Name | Description | Type and Description |
|-------|-------------------|--|---|
| 1 | username | Enter the username to log in | String, Alphanumeric username |
| 2 | password | Enter the password to log in | String, Alphanumeric password |
| 3 | authOpt | Setting authentication options | Authentication option types like(Auto/PAP/CHAP/MS-CHAP/MS-CHAPv2) |
| 4 | connectivity_type | Set connectivity type | ISP Connectivity Types. keepalive/idletimeout |
| 5 | get_dns_from_isp | Enter Yes to get dns dynamically from ISP otherwise Enter No and give valid static dns addresses | Boolean Choice (Y/N), Enter Yes to get dns dynamically from ISP otherwise Enter No and give valid static dns addresses |
| 6 | primary_dns | Valid primary DNS Server IP Address | IP Address, Primary dns |
| 7 | secondary_dns | Valid secondary DNS Server IP Address | IP address, Secondary dns |
| 8 | get_ip_from_isp | Getting the ip mode type weather to get from ISP or static IP | Boolean Choice(Y/N) |
| 9 | static_ip | Setting static ip address if not obtaining the IP from ISP | IP address Static Ip |
| 10 | subnet_mask | Setting Subnet Mask if not obtaining from ISP | IP address Subnet Mask |
| 11 | Service | Setting optional service name | String type |
| 12 | cancel | Roll back wan configuration changes | |
| 13 | exit | Save wan configuration changes and exit current mode | |
| 14 | save | Save wan configuration changes | |

8.36 net wan wan2-pppoeprofile edit *prof_name*

| SI No | Command Name | Description | Type and Description |
|-------|-------------------|--------------------------------|---|
| 1 | username | Enter the username to log in | String, Alphanumeric username |
| 2 | password | Enter the password to log in | String, Alphanumeric password |
| 3 | authOpt | Setting authentication options | Authentication option types like(Auto/PAP/CHAP/MS-CHAP/MS-CHAPv2) |
| 4 | connectivity_type | Set connectivity type | ISP Connectivity Types. keepalive/idletimeout |

| SI No | Command Name | Description | Type and Description |
|-------|------------------|--|---|
| 5 | get_dns_from_isp | Enter Yes to get dns dynamically from ISP otherwise Enter No and give valid static dns addresses | Boolean Choice (Y/N), Enter Yes to get dns dynamically from ISP otherwise Enter No and give valid static dns addresses |
| 6 | primary_dns | Valid primary DNS Server IP Address | IP Address, Primary dns |
| 7 | secondary_dns | Valid secondary DNS Server IP Address | IP address, Secondary dns |
| 8 | get_ip_from_isp | Getting the ip mode type weather to get from ISP or static IP | Boolean Choice(Y/N) |
| 9 | static_ip | Setting static ip address if not obtaining the IP from ISP | IP address Static Ip |
| 10 | subnet_mask | Setting Subnet Mask if not obtaining from ISP | IP address Subnet Mask |
| 11 | Service | Setting optional service name | String type |
| 12 | cancel | Roll back wan configuration changes | |
| 13 | exit | Save wan configuration changes and exit current mode | |
| 14 | save | Save wan configuration changes | |

8.37 net wan wan1-pppoeprofile delete *prof_name*

Deletes wan1 pppoe profile

8.38 net wan wan2-pppoeprofile delete *prof_name*

Deletes wan2 pppoeprofile

8.39 net wan ipv6 configure

| SI No | Command Name | Description | Type and Description |
|-------|-------------------------------|--|---|
| 1 | Dhpc stateless_mode_enable | Stateless mode configuration | stateless mode configuration. (StatelessAddrAutoConfig/Stateful AddrAutoConfig) |
| 2 | isp type | Set type of connection used static/dhpc | Isp type, Static/dhpc |

| SI No | Command Name | Description | Type and Description |
|-------|------------------------|--|-------------------------------|
| 3 | Static gateway_address | Set ipv6 gateway address | IP Address Gateway address |
| 4 | static ip_address | set ipv6 address | IP Address, Static address |
| 5 | static prefix | set prefix length | Integer, Prefix length |
| 6 | static primary_dns | Set ipv6 primary dns address | IP Address, Primary dns |
| 7 | static secondary_dns | Set ipv6 secondary dns address | IP Address, Secondary dns |
| 8 | Cancel | Roll back wan configuration changes | |
| 9 | Exit | Save wan configuration changes and exit current mode | |
| 10 | Save | Save wan configuration changes | |

Chapter 9. Configuration commands under branch SECURITY

9.1 security attack_checks configure

| SI No | Command Name | Description | Type and Description |
|-------|--|---|--|
| 1 | echostorm_flood_rate <echostorm> | Configure the Echo Storm Flood Rate | Integer Configure Echo Storm Flood Rate (Value between 1-10000) |
| 2 | icmp_flood_rate <icmpflood> | Configure the ICMP flood Rate | Integer Configure ICMP Flood Rate (Value between 1-10000) |
| 3 | synflood_dectect_rate <synflood> | Configure the Syn flood Detect Rate | Integer Configure Syn Flood Detect Rate (Value between 1-10000) |
| 4 | respond_to_ping_enable <respondToPing> | Enable or Disable Respond To Ping on Internet Ports. | Enable / Disable Respond to Ping (Y/N) |
| 5 | stealth_mode_enable <stealthMode> | Enable or Disable Stealth Mode. | Enable / Disable Stealth Mode (Y/N) |
| 6 | tcp_block_enable <tcpBlock> | Enable or Disable TCP Flood on WAN port. | Enable / Disable TCP Flood on WAN (Y/N) |
| 7 | udp_block_enable <udpBlock> | Enable or Disable UDP Flood on LAN port. | Enable / Disable UDP Flood on LAN (Y/N) |
| 8 | cancel | Roll back Security Checks configuration changes. | |
| 9 | exit | Save Security Checks configuration changes and exit current mode. | |
| 10 | save | Save Security Checks configuration changes. | |

9.2 security blocked_keywords add/edit

| SI No | Command Name | Description | Type and Description |
|-------|--------------------|--|---|
| 1 | group_name <group> | Keyword Blocking is applied to group name mentioned | String Group name |
| 2 | keyword <keyword> | Configure keyword to be blocked | String Keyword used for blocking traffic |
| 3 | cancel | Roll back blocked keywords configuration changes. | |
| 4 | exit | Save blocked keywords configuration changes and exit current mode. | |
| 5 | save | Save blocked keywords configuration changes. | |

9.3 security blocked_keywords delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|---|-----------------------------|----------------------------------|
| 1 | security blocked_keywords delete <row_id> | Delete blocked keyword Rule | Row Id Of the rule to be deleted |

9.4 security blocked_keywords disable <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--|------------------------------|-----------------------------------|
| 1 | security blocked_keywords disable <row_id> | Disable blocked keyword Rule | Row Id Of the rule to be disabled |

9.5 security blocked_keywords enable <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|---|-----------------------------|----------------------------------|
| 1 | security blocked_keywords enable <row_id> | Enable blocked keyword Rule | Row Id Of the rule to be enabled |

9.6 security content_filtering configure

| SI No | Command Name | Description | Type and Description |
|-------|--------------------------|---|--|
| 1 | enable <status> | Enable/Disable content Filtering | Enable/Disable content Filtering (Y/N) |
| 2 | activex_enable <activex> | enable/disable activex | enable/disable activex (Y/N) |
| 3 | cookies_enable <cookies> | enable/disable cookies | enable/disable cookies (Y/N) |
| 4 | java_enable <java> | enable/disable java | enable/disable java (Y/N) |
| 5 | proxy_enable <proxy> | enable/disable proxy | enable/disable proxy (Y/N) |
| 6 | cancel | Roll back content filtering configuration changes. | |
| 7 | exit | Save content filtering configuration changes and exit current mode. | |
| 8 | save | Save content filtering configuration changes. | |

9.7 security custom_service add/edit

| SI No | Command Name | Description | Type and Description |
|-------|------------------------|--|---|
| 1 | destination_end_port | ending port number of the range used by destination user | Port of the Destination User (0..65535) |
| 2 | destination_start_port | Starting port number of the range used by destination user | Port of the Destination User (0..65535) |

| SI No | Command Name | Description | Type and Description |
|-------|--------------------|---|---|
| 3 | name | Name of the service for which a rule is to be added | String, Service name |
| 4 | protocol | Protocol type | Protocol type (TCP/UDP/ICMP/ICMPv6) |
| 5 | quality_of_service | Type of QoS | QoS. (Normal-Service/Minimize-Cost/Maximize-Reliability/Maximize-Throughput/Minimize-Delay) |
| 6 | cancel | Roll back custom services configuration changes. | |
| 7 | exit | Save custom services configuration changes and exit current mode. | |
| 8 | save | Save custom services configuration changes. | |

9.8 security custom_service delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|---|---------------------------|-------------------------------------|
| 1 | security custom_service delete <row_id> | Delete custom service row | Row Id Of the service to be deleted |

9.9 security firewall ipv4 default_outbound_policy

| SI No | Command Name | Description | Type and Description |
|-------|---|-----------------------------------|--|
| 1 | security firewall ipv4 default_outbound_policy_enable <default_outbound_policy> | Configure default outbound policy | enable/disable default ob policy (Y/N) |

9.10 security firewall ipv6 default_outbound_policy

| SI No | Command Name | Description | Type and Description |
|-------|---|-----------------------------------|--|
| 1 | security firewall ipv6 default_outbound_policy_enable <default_outbound_policy> | Configure default outbound policy | enable/disable default ob policy (Y/N) |

9.11 security firewall ipv4 configure/edit

| SI No | Command Name | Description | Type and Description |
|-------|-----------------|--------------------------------|---|
| 1 | action <action> | Action to be taken by the rule | BLOCK_ALWAYS/ALLOW_ALWAYS/BLOCK_BY_SCHEDULE_ELSE_ALLOW/ALLOW_BY_SCHEDULE_ELSE |

| SI No | Command Name | Description | Type and Description |
|-------|--|---|--|
| | | | _BLOCK, Type of Action to be taken by the rule |
| 2 | destination_address_end <dstAddrEnd> | End IP of the Destination user | IP Address End IP of the Destination User |
| 3 | destination_address_start <dstAddrStart> | Start IP of the Destination user | IP Address Start IP of the Destination user |
| 4 | destination_address_type <dstType> | Type of the destination user | Type of destination address, Any/Single Address/Address Range |
| 5 | dnat_address <dnatAddr> | Send to Local Server (DNAT IP), Specifies an IP address and port number of a machine on the Local Network which is host | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 6 | dnat_port <dnatport> | The port number to use for DNAT, required if port forwarding is enabled | Port number (0..65535) |
| 7 | log <log> | Enable / Disable Logs | Log type, Never/Always |
| 8 | schedule <schedule> | Schedule for which the rule is applicable | String Schedule for which the rule is applicable |
| 9 | service_name <service> | Name of the service for which a rule is to be added | String Name of the service for which a rule is to be added |
| 10 | snat_address <snatAddr> | IP of the SNAT Address | IP Address IP of the SNAT Address |
| 11 | snat_address_type <snatType> | Type of the SNAT address | snat type WAN1/Single Address |
| 12 | source_address_end <srcAddrEnd> | End IP of the Source user | IP Address End IP of the Source user |
| 13 | source_address_start <srcAddrStart> | Start IP of the Source user | Start IP of the Source user |
| 14 | source_address_type <srcType> | Type of the source user | Type of user address, Any/Single Address/Address Range |
| 15 | internet_destination <internetDest> | Enter WAN/OTHER. Set it as WAN port, if more than one is available, that is the internet destination for traffic covered by this firewall rule. | internet destination type (WAN/OTHERS) |
| 16 | internet_destination_address <internetDestAddr> | The WAN IP address that will map to the incoming server. | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 17 | port_forwarding_enable <dnatenable> | enable/disable port forwarding based on type of firewall rule configured | Boolean choice (Y/N) |
| 18 | rule_type <ruleType> | Type of rule to be configured | firewall rule type (WAN-To-LAN/Inbound/LAN-To-WAN/Outbound) |
| 19 | cancel | Roll back firewall ipv4 rules configuration changes | |

| SI No | Command Name | Description | Type and Description |
|-------|--------------|---|----------------------|
| 20 | exit | Save firewall ipv4 rules configuration changes and exit current mode. | |
| 21 | save | Save firewall ipv4 rules configuration changes. | |

9.12 security firewall ipv4 delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--|----------------------------------|--|
| 1 | security firewall ipv4 delete <row_id> | Row Id Of the rule to be deleted | Integer, Row Id Of the rule to be deleted |

9.13 security firewall ipv4 disable <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|---|-----------------------------------|---|
| 1 | security firewall ipv4 disable <row_id> | Row Id Of the rule to be disabled | Integer, Row Id Of the rule to be disabled |

9.14 security firewall ipv4 enable

| SI No | Command Name | Description | Type and Description |
|-------|--|----------------------------------|--|
| 1 | security firewall ipv4 enable <row_id> | Row Id Of the rule to be enabled | Integer, Row Id Of the rule to be enabled |

9.15 security firewall ipv6 configure/edit

| SI No | Command Name | Description | Type and Description |
|-------|--|---|--|
| 1 | action <action> | Action to be taken by the rule | BLOCK_ALWAYS/ALLOW_ALWAYS/BLOCK_BY_SCHEDULE_ELSE_ALLOW/ALLOW_BY_SCHEDULE_ELSE_BLOCK, Type of Action to be taken by the rule |
| 2 | destination_address_prefix <dstPrefix> | Prefix Length of the Destination user | String, Prefix length |
| 3 | destination_address_type <dstType> | Type of the destination user | Type of destination address, Any/Single Address/Address Range |
| 4 | destination_start_address <dstAddrStart> | Start IP of the Destination user | IPv6 Address Start IP of the Destination user |
| 5 | destination_end_address <dstAddrEnd> | End IP of the Destination user | IPv6 Address End IP of the Destination user |
| 6 | log <log> | Enable / Disable Logs | Log type, Never/Always |
| 7 | schedule <schedule> | Schedule for which the rule is applicable | String Schedule for which the rule is |

| SI No | Command Name | Description | Type and Description |
|-------|-------------------------------------|---|---|
| | | | applicable |
| 8 | service_name <service> | Name of the service for which a rule is to be added | String Name of the service for which a rule is to be added |
| 9 | source_address_prefix <srcPrefix> | Prefix Length of the Source user | String, Prefix length |
| 10 | source_address_type <srcType> | Type of the source user | Type of source address, Any/Single Address/Address Range |
| 11 | source_start_address <srcAddrStart> | Start IP of the Source user | IPv6 Address Start IP of the source user |
| 12 | source_end_address <srcAddrEnd> | End IP of the Source user | IPv6 Address End IP of the Source user |
| 13 | rule_type <ruleType> | Type of rule to be configured | firewall rule type (WAN-To-LAN/Inbound/LAN-To-WAN/Outbound) |
| 14 | cancel | Roll back firewall ipv6 rules configuration changes | |
| 15 | exit | Save firewall ipv6 rules configuration changes and exit current mode. | |
| 16 | save | Save firewall ipv6 rules configuration changes. | |

9.16 security firewall ipv6 delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--|----------------------------------|--|
| 1 | security firewall ipv6 delete <row_id> | Row Id Of the rule to be deleted | Integer, Row Id Of the rule to be deleted |

9.17 security firewall ipv6 disable <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|---|-----------------------------------|---|
| 1 | security firewall ipv6 disable <row_id> | Row Id Of the rule to be disabled | Integer, Row Id Of the rule to be disabled |

9.18 security firewall ipv6 enable <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--|----------------------------------|--|
| 1 | security firewall ipv6 enable <row_id> | Row Id Of the rule to be enabled | Integer, Row Id Of the rule to be enabled |

9.19 security ids configure

| SI No | Command Name | Description | Type and Description |
|-------|--------------------|-----------------------------------|-----------------------|
| 1 | enable <idsStatus> | Enable Intrusion detection system | Boolean choice (Y/N), |

| SI No | Command Name | Description | Type and Description |
|-------|--|---|--|
| | | | Enable/Disable Intrusion detection system |
| 2 | intrusion_log_enable <intrusionLogStatus> | Enable/Disable intrusion logs | Boolean choice (Y/N), Enable/Disable intrusion logs |
| 3 | save | Save IDS configuration changes. | |
| 4 | exit | Save IDS configuration changes and exit current mode. | |
| 5 | cancel | Roll back IDS configuration changes. | |

9.20 security ip_or_mac_binding add/edit

| SI No | Command Name | Description | Type and Description |
|-------|----------------------------------|--|--|
| 1 | ip_address <ipAddr> | configure ip address to which policies will be applied | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 2 | log_dropped_packets <logStat> | Specify logging option for this rule | Boolean choice (Y/N), logging option for this rule |
| 3 | mac_address <macAddr> | enter mac address to which policies will be applied | MAC address AA:BB:CC:DD:EE:FF where each part is in the range 00-FF |
| 4 | name <name> | Specify a unique name for this rule. | name String |
| 5 | exit | Save ip mac binding configuration changes and exit current mode. | |
| 6 | save | Save ip mac binding configuration changes. | |
| 7 | cancel | Roll back ip mac binding configuration changes. | |

9.21 security ip_or_mac_binding delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--|----------------------------------|--|
| 1 | security ip_or_mac_binding delete <row_id> | Row Id Of the rule to be deleted | Integer, Row Id Of the rule to be deleted |

9.22 security port_triggering add/edit

| SI No | Command Name | Description | Type and Description |
|-------|--------------------------------------|---|---|
| 1 | incoming_start_port <inPortStart> | start port number of the incoming traffic range | Port number, (0..65535) |
| 2 | incoming_end_port <inPortEnd> | end port number of the incoming traffic range | Port number, (0..65535) |
| 3 | name <name> | Name of the rule | String, Specifies an easily identifiable |

| SI No | Command Name | Description | Type and Description |
|-------|---------------------------------------|---|-------------------------|
| | | | name for this rule |
| 4 | outgoing_start_port <outPortStart> | start port number of the outgoing traffic | Port number, (0..65535) |
| 5 | outgoing_end_port <outPortEnd> | end port of the outgoing traffic | Port number, (0..65535) |
| 6 | protocol <protocol> | Specify whether the port uses the TCP or UDP protocol | Protocol type, UDP/TCP |
| 7 | rule_enable <status> | specify whether to enable or disable the rule | Boolean choice (Y/N) |
| 8 | save | Save port triggering configuration changes. | |
| 9 | exit | Save port triggering rules configuration changes and exit current mode. | |
| 10 | cancel | Roll back port triggering configuration changes. | |

9.23 security port_triggering delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|---|----------------------------------|--|
| 1 | security port_triggering delete <row_id> | Row Id Of the rule to be deleted | Integer, Row Id Of the rule to be deleted |

9.24 security schedules add/edit

| SI No | Command Name | Description | Type and Description |
|-------|--|--|----------------------------------|
| 1 | days all <allDays> | select all days for schedule | Boolean Choice (Y/N) |
| 2 | days monday <monday> | Select Monday for schedule | Boolean Choice (Y/N) |
| 3 | days tuesday <tuesday> | Select Tuesday for schedule | Boolean Choice (Y/N) |
| 4 | days wednesday <wednesday> | Select Wednesday for schedule | Boolean Choice (Y/N) |
| 5 | days thursday <thursday> | Select Thursday for schedule | Boolean Choice (Y/N) |
| 6 | days friday <friday> | Select Friday for schedule | Boolean Choice (Y/N) |
| 7 | days saturday <saturday> | Select Saturday for schedule | Boolean Choice (Y/N) |
| 8 | name <schedule> | Name of the schedule for which a rule can be added | String, Schedule name |
| 9 | time_of_day all_enable <allDay> | type of schedule activation for time of the day | Boolean Choice (Y/N) |
| 10 | time_of_day start hours <startSchedHours> | hours | schedule time unit type. (1..12) |
| 11 | time_of_day start mins <startSchedMins> | minutes | minute in the format MM(00-59) |
| 12 | time_of_day start meridiem <startSchedMeridian> | meridiem | Schedule Meridiem Type. (AM/PM) |

| SI No | Command Name | Description | Type and Description |
|-------|--|---|----------------------------------|
| 13 | time_of_day end hours <endSchedHours> | hours | schedule time unit type. (1..12) |
| 14 | time_of_day end mins <endSchedMins> | minutes | minute in the format MM(00-59) |
| 15 | time_of_day end meridiem <endSchedMeridian> | meridiem | Schedule Meridiem Type. (AM/PM) |
| 16 | cancel | Roll back schedules configuration changes | |
| 17 | save | Save schedules configuration changes. | |
| 18 | exit | Save schedules configuration changes and exit current mode. | |

9.25 security schedules delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|---------------------------------------|----------------------------------|--|
| 1 | security schedules delete <row_id> | Row Id Of the rule to be deleted | Integer, Row Id Of the rule to be deleted |

9.26 security session_settings configure

| SI No | Command Name | Description | Type and Description |
|-------|--|--|--|
| 1 | max_half_open_sessions <maxHalfOpenSess> | Maximum number of half open sessions configured | Integer, Max number of open sessions configured |
| 2 | max_unidentified_sessions <maxUnIdentfdSess> | Maximum number of unidentified sessions | Integer, Max number of unidentified sessions |
| 3 | other_session_timeout <otherSessTimeout> | Configure other session timeout duration | Integer, Other Session Timeout Duration |
| 4 | tcp_session_cleanup_latency <tcpSessCleanupLatency> | Configure TCP session cleanup latency | Integer, TCP Session Cleanup Latency |
| 5 | tcp_session_timeout <tcpSessTimeout> | Configure TCP session timeout duration | Integer, TCP Session Timeout Durations |
| 6 | udp_session_timeout <udpSessTimeout> | Configure udp session timeout duration | Integer, UDP Session Timeout Duration |
| 7 | cancel | Roll back session settings configuration changes. | |
| 8 | save | Save security session settings configuration changes. | |
| 9 | exit | Save session settings configuration changes and exit current mode. | |

9.27 security mac_filter source add/edit

| SI No | Command Name | Description | Type and Description |
|-------|-------------------|---|--|
| 1 | address <macAddr> | configure mac address to which policies will be applied | MAC address AA:BB:CC:DD:EE:FF where each part is in the range 00-FF |
| 2 | cancel | Roll back source mac filter configuration changes. | |
| 3 | save | Save source mac filter configuration changes. | |
| 4 | exit | Save source mac filter configuration changes and exit current mode. | |

9.28 security mac_filter source delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--|----------------------------------|--|
| 1 | security mac_filter source delete <row_id> | Row Id Of the rule to be deleted | Integer, Row Id Of the rule to be deleted |

9.29 security mac_filter configure

| SI No | Command Name | Description | Type and Description |
|-------|-----------------|--|--|
| 1 | enable <status> | Enable/Disable the mac filter status | Boolean Choice (Y/N) |
| 2 | policy <policy> | Set the mac address policy | mac address policy type, Permit-And-Block-Rest/Block-And-Permit-Rest |
| 3 | cancel | Roll back mac filter configuration changes. | |
| 4 | save | Save mac filter configuration changes. | |
| 5 | exit | Save mac filter configuration changes and exit current mode. | |

9.30 security trusted_domain add/edit

| SI No | Command Name | Description | Type and Description |
|-------|---------------|---|------------------------|
| 1 | name <domain> | trusted domain name | String, Domain name |
| 2 | save | Save trusted domains configuration changes. | |
| 3 | exit | Save trusted domains configuration changes and exit current mode. | |
| 4 | cancel | Roll back trusted domains configuration changes. | |

9.31 security trusted_domain delete

| SI No | Command Name | Description | Type and Description |
|-------|---|----------------------------------|--|
| 1 | security trusted_domain delete <row_id> | Row Id Of the rule to be deleted | Integer, Row Id Of the rule to be deleted |

9.32 security vpn_passthrough configure

| SI No | Command Name | Description | Type and Description |
|-------|--------------|---|--|
| 1 | ipsec_enable | Enable or Disable IPSEC Passthrough. | Enable / Disable IPSec Passthrough (Y/N) |
| 2 | l2tp_enable | Enable or Disable L2TP Passthrough. | Enable / Disable L2tp Passthrough (Y/N) |
| 3 | pptp_enable | Enable or Disable PPTP Passthrough. | Enable / Disable Pptp Passthrough (Y/N) |
| 4 | cancel | Roll back VPN Passthrough configuration changes | |
| 5 | exit | Save VPN Passthrough configuration changes and exit current mode. | |
| 6 | save | Save VPN Passthrough configuration changes | |

Chapter 10. Configuration commands under branch SYSTEM

10.1 system logging facility configure <facility>

| SI No | Command Name | Description | Type and Description |
|-------|--|--|--|
| 1 | system logging facility configure <facility> | Facility type to configure. | Facility types, Kernel/System/Local0-Wireless/Local1-UTM |
| 2 | level_options_set <level> <level_options> <enable> | Set level options. This command can be | Level identifier types, Emergency/Alert/Critical/Error/War ning/Notification/Information/Debug ging Logging level options, Display_In_Event_Log/Send_to_sy slog Enable, Enable/Disable this logging option. (Y/N) |

10.2 system logging ipv4 configure

| SI No | Command Name | Description | Type and Description |
|-------|---|---|----------------------|
| 1 | bandwidth_limit_logs <bandwidthLimitLogs> | Bandwidth Limit logs Enable/Disable | Boolean Choice (Y/N) |
| 2 | broadcast_or_multicast_traffic_logs <broadcastOrMulticastTraffic> | All Broadcast/Multicast Traffic logs Enable/Disable | Boolean Choice (Y/N) |
| 3 | lan_wan_accept_packet_logs <acceptedPkts> | lan to wan accepted Pkts Enable/Disable | Boolean Choice (Y/N) |
| 4 | lan_wan_drop_packet_logs <droppedPkts> | lan to wan dropped Pkts Enable/Disable | Boolean Choice (Y/N) |
| 5 | source_mac_filter_logs <sourceMacFilter> | Source mac filter logs Enable/Disable | Boolean Choice (Y/N) |
| 6 | unicast_traffic_logs <unicastTrafficPkts> | All Unicast Traffic logs Enable/Disable | Boolean Choice (Y/N) |
| 7 | wan_lan_accept_packet_logs <acceptedPkts> | wan to lan accepted Pkts logs Enable/Disable | Boolean Choice (Y/N) |
| 8 | wan_lan_drop_packet_logs <droppedPkts> | wan to lan dropped Pkts logs Enable/Disable | Boolean Choice (Y/N) |
| 9 | cancel | Roll back logging configuration changes. | |
| 10 | save | Save logging configuration changes. | |
| 11 | exit | Save logging configuration changes and exit current mode. | |

10.3 system logging ipv6 configure

| SI No | Command Name | Description | Type and Description |
|-------|---|--|----------------------|
| 1 | lan_wan_drop_enable <lanwanDropEnable> | Enable/Disable logging for the LAN to WAN Dropped packets | Boolean Choice (Y/N) |
| 2 | lan_wan_accept_enable <lanwanAcceptEnable> | Enable/Disable logging for the LAN to WAN Accept packets | Boolean Choice (Y/N) |
| 3 | wan_lan_drop_enable <wanlanDropEnable> | Enable/Disable logging for the WAN to LAN Dropped packets | Boolean Choice (Y/N) |
| 4 | wan_lan_accept_enable <wanlanAcceptEnable> | Enable/Disable logging for the WAN to LAN Accept packets | Boolean Choice (Y/N) |
| 5 | cancel | Roll back ipv6 logging configuration changes. | |
| 6 | save | Save ipv6 logging configuration changes. | |
| 7 | exit | Save ipv6 logging configuration changes and exit current mode. | |

10.4 system logging remote configure

| SI No | Command Name | Description | Type and Description |
|-------|---|---|--|
| 1 | email_logs_enable <enabled> | Set whether or not system emails scheduled | Email logs enabled or disabled. Boolean Choice (Y/N) |
| 2 | email_server <ip_address> | Set options for emailing of logs. | String, IP Address or internet name of an SMTP server. |
| 3 | identd_from_smtp_server_enable <identdSmtp> | Enable/Disable to identd from smtp server. | Enable/Disable identd from smtp server. Boolean Choice (Y/N) |
| 4 | log_identifier <identifier> | Set the log identifier prefixed to both, | String, Log identifier |
| 5 | return_email <email> | Set email address SMTP server replies are sent. | String, Return email address |
| 6 | schedule day <day> | Set schedule day. | Schedule day. Required only if unit is 'daily'. (Sunday/Monday/Tuesday/Wednesday/Thursday/Friday/Saturday) |
| 7 | schedule meridiem <meridiem> | Set schedule meridiem. | Time in A.M. or P.M. Required only if unit is 'daily' or 'weekly'. (AM/PM) |
| 8 | schedule time <time> | Set schedule time. | Schedule time. Required only if unit is 'daily' or 'weekly'. (0:00/1:00/2:00/3:00/4:00/5:00/6:00/7:00/8:00/9:00/10:00/11:00) |
| 9 | schedule unit <unit> | Set schedule unit. | Schedule unit. (Never/Hourly/Daily/Weekly) |
| 10 | send_to_email <email> | Set email address where logs and alerts will be sent. | String, Send to email address |
| 11 | smtp_auth password | Set SMTP authentication password (for | Password for SMTP authentication. |

| SI No | Command Name | Description | Type and Description |
|-------|-------------------------------|--|--|
| | <password> | plain and CRAM-MD5 auth). | |
| 12 | smtp_auth type <smtp_auth> | Set SMTP authentication types. | SMTP authentication types. (None/Plain/CRAM-MD5) |
| 13 | smtp_auth username <username> | Set SMTP authentication username (for plain and CRAM-MD5 auth). | Username for SMTP authentication. |
| 14 | syslog_server <serverName> | Set Syslog server. | String, Server name, syslog server address |
| 15 | save | Save remoteLogging configuration changes. | |
| 16 | exit | Save remote logging configuration changes and exit current mode. | |
| 17 | cancel | Roll back remote logging configuration changes. | |

10.5 system radius configure <radiusServer>

| SI No | Command Name | Description | Type and Description |
|-------|----------------------------|--|--|
| 1 | server <ip_address> | Set RADIUS server IP address. | Radius server IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 2 | authentication_port <port> | Set RADIUS server port. | RADIUS server port. (0..65535) |
| 3 | secret <secret> | Set RADIUS server secret. | RADIUS server secret string. |
| 4 | timeout <timeout> | Set RADIUS server connection timeout. | RADIUS server connection timeout (in seconds). |
| 5 | retries <retries> | Set RADIUS server connection retry attempts. | Integer, RADIUS server connection retry attempts. |
| 6 | cancel | Roll back configuration changes | |
| 7 | save | Save RADIUS configuration changes. | |
| 8 | exit | Save RADIUS configuration changes and exit current mode. | |

10.6 system radius delete <radiusServer>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|---|--|
| 1 | radiusServer | IP address of RADIUS server to configure. | Radius server IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |

10.7 system remote_management https configure

| SI No | Command Name | Description | Type and Description |
|-------|---------------------------|--|---|
| 1 | enable <https_enable> | Enable/disable remote mgmt over https. | Enable/ Disable flag. (Y/N) |
| 2 | from_address <access_ip1> | Set the starting IP in case of range, and the IP to be allowed access in case of granting access to a particular machine | IP address. |
| 3 | end_address <access_ip2> | Set the Ending IP in case of range. | IP address |
| 4 | port <port> | Set the port you want to use for HTTP. | Integer, Port number |
| 5 | type <access_type> | Access type | 0 -Enable access to all, 1 - Enable access to a range of IPs, 2 - Enable access to a single IP. |
| 6 | enable <https_enable> | Enable/disable remote mgmt over https. | Enable/ Disable flag. (Y/N) |
| 7 | save | save access Management changes for https. | |
| 8 | exit | Save access Management changes for https and exit current mode. | |
| 9 | cancel | Roll back Remote Mgmt changes. | |

10.8 system snmp sys configure

| SI No | Command Name | Description | Type and Description |
|-------|---------------------|---|---------------------------------------|
| 1 | contact <contact> | Set system contact information. | String, System contact identifier |
| 2 | location <location> | Set system location information. | String, System location identifier |
| 3 | name <name> | Set system name information. | String, System name identifier |
| 4 | cancel | Roll back snmp configuration changes. | |
| 5 | save | Save SNMP system configuration changes. | |
| 6 | exit | Save SNMP system configuration changes and exit current mode. | |

10.9 system snmp trap configure <agentip>

| SI No | Command Name | Description | Type and Description |
|-------|--------------------|-----------------------------------|--|
| 1 | agent <ip_address> | The IP address of the SNMP agent. | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |

| SI No | Command Name | Description | Type and Description |
|-------|-------------------------|---|--|
| 2 | community <community> | The community string to which the agent belongs. Most agents are configured to listen for traps in the Public community | String, Community name |
| 3 | port <port> | SNMP trap port the trap messages will be sent to. | Port number (0..65535) |
| 4 | subnet_mask <IPAddress> | The network mask used to determine the list of allowed SNMP managers. To allow any IP on the network to manager the dev | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 5 | cancel | Roll back snmp configuration changes. | |
| 6 | exit | Save SNMP trap configuration changes and exit current mode. | |
| 7 | save | Save SNMP trap configuration changes. | |

10.10 system snmp trap delete <agentIp>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|-----------------------------------|--|
| 1 | agentIp | The IP address of the SNMP agent. | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |

10.11 system time configure

| SI No | Command Name | Description | Type and Description |
|-------|-------------------------------|--|---|
| 1 | auto_daylight <auto_daylight> | Specify whether system automatically adjusts for daylight savings time | Boolean (Y/N) Specify whether system automatically adjusts for daylight savings time |
| 2 | ntp_server1 <ntp_server> | Set NTP server#1 | String Server 1 Name / IP Address |
| 3 | ntp_server2 <ntp_server> | Set NTP server#2 | String Server 2 Name / IP Address |
| 4 | timezone <tz> | Timezone | string Timezone (see note for values) |
| 5 | use_default_servers <enable> | Specify whether to use system default NTP servers | Boolean (Y/N) Enable/Disable use of default NTP servers |
| 6 | cancel | Roll back time configuration changes. | |
| 7 | exit | Save time configuration changes and exit current mode. | |
| 8 | save | Save time configuration changes. | |

Note:

```

GMT :: Greenwich-Mean-Time-Edinburgh-London
GMT-12:00 :: Eniwetok-Kwajalein
GMT-11:00 :: Midway-Island-Samoa
GMT-10:00 :: Hawaii
GMT-09:30 :: Marquesas-Is.
GMT-09:00 :: Alaska
GMT-08:30 :: Pitciarn-Is.
GMT-08:00 :: Pacific-TimeCanada :: -Tijuana
GMT-08:00 :: Pacific-TimeUS :: Tijuana
GMT-07:00 :: Mountain-Time-ArizonaCanada
GMT-07:00 :: Mountain-Time-ArizonaUS
GMT-06:00 :: Mexico-CityUS-Canada
GMT-06:00 :: CentralTimeUSA
GMT-05:00 :: EasternTime
GMT-05:00 :: EasternTimeUSA :: Lima-Indiana-East
GMT-04:00 :: Atlantic-TimeCanada :: -Caracas
GMT-03:30 :: Newfoundland
GMT-03:00 :: Brasilia--Buenos-Aires
GMT-02:00 :: Mid-Atlantic
GMT-01:00 :: Azores--Cape-Verde-Is.
GMT+01:00 :: Europe
GMT+02:00 :: Athens--Istanbul--Minsk-Cairo
GMT+03:00 :: Baghdad--Kuwait-Moscow
GMT+03:30 :: Tehran
GMT+04:00 :: Abu-Dhabi--Muscat-Baku
GMT+04:30 :: Kabul
GMT+05:00 :: Ekaterinburg--Islamabad-Karachi
GMT+05:30 :: Bombay--Calcutta--Madras-Delhi
GMT+06:00 :: Almaty--Dhaka-Colombo
GMT+06:30 :: Burma
GMT+07:00 :: Bangkok--Hanoi-Jakarta
GMT+08:00 :: Beijing--Chongqing--Hong-Kong
GMT+09:00 :: Osaka--Sapporo--Tokyo--Seoul
GMT+09:30 :: Adelaide-Darwin
GMT+10:00 :: Brisbane--Guam--Port-Moresby
GMT+10:30 :: Lord-Howe-Is.
GMT+11:00 :: Magadan--Solomon-Is--New-Caledonia
GMT+11:30 :: Norfolk-I.
GMT+12:00 :: Auckland--Wellington--New-Zealand-Fiji
GMT+13:00 :: Tonga
GMT+14:00 :: Kiribati-Western-Samoa

```

10.12 system traffic_meter configure

| SI No | Command Name | Description | Type and Description |
|-------|---------------------------|--|--|
| 1 | block_type <blockTraffic> | block_type <blockTraffic> | Traffic block types, Block-all-traffic/Block- all-traffic-except-email |
| 2 | counter <restartCounter> | set traffic counter as either specific | Counter type, |

| SI No | Command Name | Description | Type and Description |
|-------|--|---|--|
| | | time or restart counter now | SpecificTime/RestartCounter |
| 3 | day_of_month <dayMonth> | set day of month | Calendar day of month (1..31) |
| 4 | increase_limit_by <incrLimitBy> | Set the value to increase limit of the traffic meter | Integer, Limit value |
| 5 | increase_limit_enable <incrLimitEnable> | Enable/Disable status of increase limit of the traffic meter option | Enable/disable limit option, Boolean choice (Y/N) |
| 6 | limit_type <trfLimitType> | Set traffic Limit Type | Traffic limit type, Nolimit/Downloadonly/BothDirections |
| 7 | monthly_limit <monthlyLimit> | Set the monthly limit value of the traffic meter | Integer, Monthly limit value |
| 8 | send_email_report <sendEmailReport> | Enable/Disable send email report | Enable/Disable send email report, Boolean Choice (Y/N) |
| 9 | send_email_alert <sendEmailAlert> | Enable/Disable send email alert | Enable/Disable send email alert, Boolean Choice (Y/N) |
| 10 | time_minute <timeMins> | set minutes for restart time | minute in the format MM(00-59) |
| 11 | time_hour <timeHrs> | set hours for restart time | HH(00-23) using 24 hour clock |
| 12 | cancel | Roll back traffic meter configuration changes. | |
| 13 | save | Save traffic meter configuration changes. | |
| 14 | exit | Save traffic meter configuration changes and exit current mode. | |

10.13 system users idle_timeout <timeout>

| SI No | Command Name | Description | Type and Description |
|-------|-------------------|---------------------------|---------------------------------------|
| 1 | timeout <timeout> | Change user login timeout | Integer Login timeout (in minutes) |

10.14 system users password <user>

| SI No | Command Name | Description | Type and Description |
|-------|---------------------------------|---------------|--------------------------------------|
| 1 | system users password <user> | User to edit. | String User to edit configuration |

Chapter 11. Configuration commands under branch DOT11

11.1 dot11 access point configure <ap_name>

| SI No | Command Name | Description | Type and Description |
|-------|------------------------|--|--|
| 1 | ap_name | Unique name of the access point | String, Access point name |
| 2 | acl_policy_status | Policy, Set the default ACL policy for AP. | policy Name of the policy. (Open/Allow/Deny) |
| 3 | enable_active_time | Indicates if the AP is enabled/disabled by a daily timer. | indicates if the AP is enabled/disabled by a daily timer. (Y/N) |
| 4 | max_associated_clients | Set maximum number of client that can associate with AP. | Maximum number of clients. |
| 5 | start_time hour | the hour of the day when the AP is activated (and available for use if enabled). | Hours 1 to 12 |
| 6 | start_time meridian | the meridian of the day when the AP is activated (and available for use if enabled). | Meridiem am/pm |
| 7 | start_time minute | the minute of the day when the AP is activated (and available for use if enabled). | Minute in the format MM (00-59) |
| 8 | stop_time hour | the hour of the day when the AP is deactivated. | Hours 1 to 12 |
| 9 | stop_time meridian | the meridian of the day when the AP is deactivated | Meridiem am/pm |
| 10 | stop_time minute | the minute of the day when the AP is deactivated | Minute in the format MM (00-59) |
| 11 | cancel | Roll back AP configuration changes | |
| 12 | exit | Save AP configuration changes and exit current mode. | |
| 13 | save | Save AP configuration changes | |

11.2 dot11 access point delete <ap_name>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|---------------------------------|------------------------------|
| 1 | ap_name | Unique name of the access point | String, Access point name |

11.3 dot11 access point disable <ap_name>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|---------------------------------|------------------------------|
| 1 | ap_name | Unique name of the access point | String, Access point name |

11.4 dot11 access point enable <ap_name>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|---------------------------------|------------------------------|
| 1 | ap_name | Unique name of the access point | String, Access point name |

11.5 dot11 access point mac add <ap_name> <mac_address>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|---------------------------------|---|
| 1 | ap_name | Unique name of the access point | String, Access point name |
| 2 | mac_address | MAC address to add to ACL | MAC address AA:BB:CC:DD:EE:FF where each part is in the range 00-FF |

11.6 dot11 access point mac delete <ap_name> <mac_address>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|---------------------------------|---|
| 1 | ap_name | Unique name of the access point | String, Access point name |
| 2 | mac_address | MAC address to delete to ACL | MAC address AA:BB:CC:DD:EE:FF where each part is in the range 00-FF |

11.7 dot11 profile configure <profile_name>

| SI No | Command Name | Description | Type and Description |
|-------|--|--|--|
| 1 | profile_name | Unique name of the profile | String, profile name |
| 2 | advanced 8021X_re_authentication_interval | Set advanced profile re authentication interval options. | 802.1X Re-authentication Interval (in seconds). [10] |
| 3 | advanced association_timeout | Set advanced profile association timeout options. | Association timeout (in seconds). [10] |
| 4 | advanced authentication_timeout | Set advanced profile authentication timeout options. | Authentication timeout (in seconds). [10] |
| 5 | advanced | Set advanced profile group key refresh | Group Key refresh interval (in |

| SI No | Command Name | Description | Type and Description |
|-------|-------------------------------------|---|--|
| | group_key_refresh_interval | interval options. | seconds). [10] |
| 6 | advanced pmksa_lifetime | Set advanced profile pmksa lifetime options. | PMKSA Lifetime (in seconds). [10] |
| 7 | broadcast_ssid | Enable or disable SSID broadcast. | Enable or disable. (Y/N) |
| 8 | default_cos | Set default Class Of Service | Default QoS. (Background/BestEffort/Video/Voice) |
| 9 | qos_enable | Enable or disable QoS | QoS enable or disable. (Y/N) |
| 10 | ssid | Set the 802.11 profile SSID. | Ssid name |
| 11 | wep authentication | Set WEP authentication type. | WEP authentication type. (Automatic/Open-System/Shared-Key) |
| 12 | wep encryption | Set WEP encryption type. | WEP encryption type. (64-bit-WEP/128-bit-WEP/152-bit-WEP) |
| 13 | wep key <index> <key> | Set WEP key. Not required if passphrase is set. | Index, Index at which key is installed. (1/2/3/4) key WEP Key. |
| 14 | wep passphrase <index> <passphrase> | Set WEP passphrase to generate WEP key from. | Index, Index at which key is installed. (1/2/3/4) passphrase to use to generate WEP Key. |
| 15 | wpa authentication | Set WPA authentication type. | WPA authentication type. (PSK/RADIUS/PSK+RADIUS) |
| 16 | wpa encryption | Set WPA encryption type. | WPA encryption type. (TKIP/CCMP/TKIP+CCMP) |
| 17 | wpa password | WPA Password. Needed only if authentication is PSK | String, WPA Password |
| 18 | exit | Save profile configuration changes and exit current mode. | |
| 19 | save | Save profile configuration changes | |

11.8 dot11 radio advanced configure <radio_num>

| SI No | Command Name | Description | Type and Description |
|-------|-------------------------------------|---|---|
| 1 | radio_num | Radio to configure | Unsigned integer, Radio number |
| 2 | beacon_interval <interval> | Set the time between beacon transmissions (in milliseconds). | Time between beacon transmissions (in milliseconds) |
| 3 | dtim_interval <interval> | Set the interval between delivery traffic indication message. | Delivery traffic indication message interval (in milliseconds). |
| 4 | fragmentation_threshold <threshold> | Set the maximum length of the frame. | Maximum length of the frame. |
| 5 | long_retry_limit <limit> | Set the retry limit for frame retransmission on transmission failure. | Frame re-transmission limit. |

| SI No | Command Name | Description | Type and Description |
|-------|------------------------------|---|---|
| 6 | preamble_mode <preamble> | Set the 802.11b preamble type to be prepended to every frame | 802.11b preamble type to be prepended to every frame (Long/Short) |
| 7 | rts_cts_protection <enabled> | Enable/disable RTS/CTS handshake before packet transmission. | Enable/Disable RTS/CTS handshake. (Y/N) |
| 8 | rts_threshold <threshold> | Set the Request to Send (RTS) threshold. | Request to Send (RTS) threshold. |
| 9 | short_retry_limit <limit> | Set the retry limit for frame retransmission on transmission failure. | Frame re-transmission limit. |
| 10 | cancel | Roll back radio configuration changes | |
| 11 | exit | Save radio configuration changes and exit current mode. | |
| 12 | save | Save radio configuration changes | |

11.9 dot11 radio configure <radio_num>

| SI No | Command Name | Description | Type and Description |
|-------|--------------------------------|--|--|
| 1 | radio_num | Radio to configure | Unsigned integer, Radio number |
| 2 | channel <channel> | Set the channel used by radio. | Unsigned integer, Channel number (or Auto to let system select). |
| 3 | channel_spacing <value> | Select either 20 MHz or 40 MHz channel bonding (spacing). | Select either 20 MHz or 40 MHz channel bonding (spacing) (20MHz/20-40MHz/40MHz) |
| 4 | country <country> | Set country. | country name (USA/INDIA/CANADA/HONG_KONG/CHINA/AUSTRALIA/SINGAPORE/THAILAND/BRUNEI_DARUSSALAM/INDONESIA/NEW_ZEALAND/PHILIPPINES/VIETNAM) |
| 5 | default_transmit_power <value> | Set default trans power for APs using this radio. | Transmitted power level (in %) (100%/75%/50%/25%/0%) |
| 6 | operating_frequency <value> | Select either 2.4GHz or 5GHz based on the radio's capabilities and your wireless network requirements. | Select either 2.4GHz or 5GHz based on the radio's capabilities and your wireless network requirements (2.4GHz/5GHz) |
| 7 | cancel | Roll back radio configuration changes | |
| 8 | exit | Save radio configuration changes and exit current mode. | |
| 9 | save | Save radio configuration changes | |

Chapter 12. Configuration commands under branch VPN

12.1 vpn ipsec policy connect <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|---|--|
| 1 | row_id | rowid of vpn policy to connect and establish an inactive SA (connection). | Unsigned integer, row_id of vpn policy |

12.2 vpn ipsec policy drop <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|---|--|
| 1 | row_id | rowid of vpn policy to disconnect and terminate an active SA (connection) | Unsigned integer, row_id of vpn policy |

12.3 vpn ipsec policy delete <name>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|------------------------|-------------------------|
| 1 | name | Unique ike policy name | String, Ike policy name |

12.4 vpn ipsec policy configure <name>

| SI No | Command Name | Description | Type and Description |
|-------|---------------------|--|--|
| 1 | name | Unique vpn policy name | String, vpn policy name |
| 2 | general_policy_type | For manual policy All settings (including the keys) for the VPN tunnel are manually input for each end point. No third-party server or organization is involved. for auto policy Some parameters for the VPN tunnel are generated automatically. This requires using the IKE (Internet Key Exchange) protocol to perform negotiations between the two VPN Endpoi | Vpn PolicyType(Manual Policy/ Auto Policy) |
| 3 | general_ike_version | Select the ike version | Vpn ikeversion(IKEV1 /IKEV2) |
| 4 | general_ipsec_mode | This can be either 'Tunnel' mode or 'Transport' modeTransmode is used when we want to secure communication only between two gateways | IPSecMode(Tunnel /Transport) |

| SI No | Command Name | Description | Type and Description |
|-------|------------------------------------|---|---|
| 5 | general_select_local_gateway | In the event two WAN ports are configured to connect to an ISP, select the gateway that will be used as the local endpoint for this IPsec tunnel. | Vpn Local gateway (DedicatedWAN/ConfiguredWAN) |
| 6 | general_remote_end_point_type | Select the type of identifier that you want to provide for the gateway at the remote endpoint: IP Address or FQDN (Fully Qualified Domain Name) | Remote end point type(Ipaddress/fqdn) |
| 7 | general_remote_end_point_ipaddress | IPAddress of the remote host | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255,remote end point |
| 8 | general_remote_end_point_fqdn | Full Qualified Domain Name of remote host | String,remote end point |
| 9 | general_enable_mode_config | Enables Mode Config feature. Mode Config is similar to DHCP and is used to assign IP addresses to remote VPN clients, like iPhone VPN Client. | ModeConfig Boolean choice (Y/N) |
| 10 | general_enable_netbios | enable/disable this to allow NetBIOS broadcasts to travel over the VPN tunnel. | netbiosenable Boolean choice (Y/N) |
| 11 | general_enable_rollover | Check this box to allow the VPN to rollover when WAN Mode is set to Auto Rollover on the WAN Mode page. | RollOver Boolean choice (Y/N) |
| 12 | general_protocol | Select protocol of the tunnel | Vpn Protocol (AH/ESP) |
| 13 | general_enable_dhcp | Check this box to allow VPN clients to connect to your router over IPsec and get an assigned IP using DHCP. | DHCP over ipsec Boolean (Y/N) |
| 14 | general_local_network_type | Select the IP addresses on the local side that will be part of the tunnel. This can be either a single IP address, several IP addresses in a range, an entire subnet, or any IP address that want to connect. | vpn network type (ANY/SINGLE/RANGE/SUBNET) |
| 15 | general_local_start_address | IP address from where the range needs to begin | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 16 | general_local_end_address | IP address where the range needs to end | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 17 | general_local_subnet_mask | Subnet mask of the subnet used | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 18 | general_remote_network_type | Select the IP addresses on the remote side that will be part of the tunnel. This can be either a single IP address, several IP addresses in a range, an | vpn network type (ANY/SINGLE/RANGE/SUBNET) |

| SI No | Command Name | Description | Type and Description |
|-------|-------------------------------------|--|--|
| | | entire subnet, or any IP address that wants to connect. | |
| 19 | general_remote_start_address | IP address from where the range needs to begin | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 20 | general_remote_end_address | IP address where the range needs to end | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 21 | general_remote_subnet_mask | Subnet mask of the subnet used | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 22 | auto_phase1_exchange_mode | Main mode negotiates the tunnel with higher security, but is slower whereas Aggressive mode establishes a faster connection. | Exchange mode type, (Main/Aggressive) |
| 23 | auto_phase1_direction_type | The connection methods for this router can be one of the selected | Direction type, (Initiator/Responder/Both) |
| 24 | auto_phase1_enable_nat_traversal | Set NAT traversal to 'On' if you expect any Network Address Translation (NAT) to occur during IPsec communication. If not set this option to Off. | Nat Traversal Boolean Choice (Y/N) |
| 25 | auto_phase1_nat_keepalive_frequency | When NAT traversal is set to 'On', use this option to control the keep-alive-frequency value. Keep-alive packets are sent at the mentioned time interval and these are used to keep the NAT mappings alive on the NAT device. Setting this value to 0 disables this feature. | Unsigned integer |
| 26 | auto_phase1_local_identytype | The ISAKMP identifier for this router | The ISAKMP identifier for this router (IP/FQDN/User FQDN/DER ASN1 DN) (Local-Wan-IP/FQDN/User-FQDN/DER-ASN1-DN) |
| 27 | auto_phase1_local_identifier | The value of the respective option chosen in the Identifier Type | The value of the respective option chosen in the Identifier Type |
| 28 | auto_phase1_remote_identytype | The ISAKMP identifier for the remote device | The ISAKMP identifier for the remote device. (IP/FQDN/User FQDN/DER ASN1 DN) (Local-Wan-IP/FQDN/User-FQDN/DER-ASN1-DN) |
| 29 | auto_phase1_remote_identifier | The value of the respective option chosen in the Identifier Type | The value of the respective option chosen in the Identifier Type |
| 30 | auto_phase1_encryption_algorithm | The algorithm used to negotiate the SA. There are four algorithms supported by this router: DES, 3DES, AES-128, AES-192.AES-256/BLOWFISH/CAST128 | (None/DES/3DES/AES-128/AES-192/AES-256 /BLOWFISH/CAST128) |

| SI No | Command Name | Description | Type and Description |
|-------|--|--|--|
| 31 | auto_phase1_key_length | BLOWFISH and CAST128 are variable length algorithms, and so the key length field is required when using either of these encryption types. For BLOWFISH, the Key Length must be between 40 and 448 and it must be a multiple of 8. For CAST128, the Key Length must be between 40 and 128 and it must be a multiple of 8 | Unsigned integer |
| 32 | auto_phase1_auth_algorithm | Specify the authentication algorithm for the VPN header. There are many algorithms | Specify the authentication algorithm for the VPN header. Algorithms supported by this router: MD5/SHA-1/SHA2-256/SHA2-384/SHA2-512) |
| 33 | auto_phase1_auth_method | Select Pre-shared key for a simple password based key. Selecting RSA-Signature will disable the pre-shared key text box and uses the Active Self Certificate uploaded in the Certificates page. In that case, a certificate must be configured | Pre-shared key/RSA Signature (Pre-shared-Key/RSA-Signature) |
| 34 | auto_phase1_pre_shared_key | alpha-numeric key to be shared with IKE peer | String, alpha-numeric key to be shared with IKE peer |
| 35 | auto_phase1_dh_group | The Diffie-Hellman algorithm is used when exchanging keys. The DH Group sets the strength of the algorithm in bits. | (None/Group1/Group2/Group5/Group14/Group15/Group16/Group17/Group18) |
| 36 | auto_phase1_safetime | the interval after which the Security Association becomes invalid. | Unsigned integer, |
| 37 | auto_phase1_enable_dead_peer_detection | Dead Peer Detection is used to detect whether the Peer is alive or not. If peer is detected as Dead, it deletes the IPs | Boolean (Y/N) |
| 38 | auto_phase1_detection_period | Detection Period is the interval between consecutive DPD R-U-THERE messages. DPD R-U-THERE messages are sent only when | Unsigned integer, Detection period interval |
| 39 | auto_phase1_reconnect_failure_count | Maximum number of DPD failures allowed before tearing down the connection. | Unsigned integer, Dpd failure count |
| 40 | auto_phase1_extended_authentication | Rather than configuring a unique VPN policy for each user, you can enable the VPN gateway router to authenticate users from a stored list of user accounts or with an external authentication server such as a RADIUS server. When connecting many VPN clients to a VPN gateway router, XAUTH allows authentication of users with methods in addition to the | Extended Authentication (NONE/IPSec Host/Edge Device) |

| SI No | Command Name | Description | Type and Description |
|-------|---------------------------------|--|--|
| | | authentication method mentioned in the IKE SA parameters. | |
| 41 | auto_phase1_authentication_type | If userdata base is selected authentication done using local Database.If Radius option is selected authentication is done using external radius server | Authentication type (User DataBase / Radius-PAP / Radius-CHAP) |
| 42 | auto_phase1_xauth_password | The password can contain alphanumeric characters | String, The password can contain alphanumeric characters |
| 43 | auto_phase1_xauth_username | This is the unique identifier for the user, and can contain any alphanumeric characters | This is the unique identifier for the user, and can contain any alphanumeric characters. |
| 44 | manual_spi_in | Takes a hexadecimal value between 3 and 8 characters | spiin Unsigned integer |
| 45 | manual_spi_out | Takes a hexadecimal value between 3 and 8 characters | Spiout Unsigned integer |
| 46 | manual_encryption_algorithm | The algorithm used to encrypt the data | vpn encryption algorithm (None/DES/3DES/AES-128/AES-192/AES-256/AES-CCM/AES-GCM/TWOFISH(128/192/256)/BLOWFISH/CAST128) |
| 47 | manual_key_length | BLOWFISH and CAST128 are variable length algorithms, and so the key length field is required when using either of these encryption types. For BLOWFISH, the Key Length must be between 40 and 448 and it must be a multiple of 8. For CAST128, the Key Length must be between 40 and 128 and it must be a multiple of 8. | Unsigned integer |
| 48 | manual_encryption_key_in | Encryption key of the inbound policy. The length of the key depends on the algorithm chosen | String |
| 49 | manual_encryption_key_out | Encryption key of the outbound policy. The length of the key depends on the algorithm chosen. | String |
| 50 | manual_authentication_algorithm | Algorithm used to verify the integrity of the data. | vpn authentication algorithm (MD5/SHA-1/SHA2-256/SHA2-384/SHA2-512) |
| 51 | manual_authentication_key_in | This is the integrity key (for ESP with Integrity-mode) for the inbound policy and depends on the algorithm chosen | String |
| 52 | manual_authentication_key_out | This is the integrity key (for ESP with Integrity-mode) for the outbound policy and depends on the algorithm chosen | String |
| 53 | auto_phase2_sa_ | It is the interval after which the Security Association becomes invalid | salifetime Unsigned integer |

| SI No | Command Name | Description | Type and Description |
|-------|--------------------------------------|--|--|
| | lifetime | | |
| 54 | auto_phase2_encryption_algorithm | The algorithm used to encrypt the data | vpn encryption algorithm (None/DES/3DES/AES-128/AES-192/AES-256/AES-CCM/AES-GCM/TWOFISH(128/192/256)/BLOWFISH/CAST128) |
| 55 | auto_phase2_key_length | BLOWFISH and CAST128 are variable length algorithms, and so the key length field is required when using either of these encryption types. For BLOWFISH, the Key Length must be between 40 and 448 and it must be a multiple of 8. For CAST128, the Key Length must be between 40 and 128 and it must be a multiple of 8. | Unsigned integer |
| 56 | auto_phase2_authentication_algorithm | Algorithm used to verify the integrity of the data. | vpn authentication algorithm (MD5/SHA-1/SHA2-256/SHA2-384/SHA2-512) |
| 57 | auto_phase2_enable_pfskeygroup | Enable Perfect Forward Secrecy (PFS) to improve security. While slower, this protocol helps to prevent eavesdroppers by ensuring that a Diffie-Hellman exchange is performed for every phase-2 negotiation. | PFSKeyGroup enable Boolean (Y/N) |
| 58 | auto_phase2_dh_group | The Diffie-Hellman algorithm is used when exchanging keys. The DH Group sets the strength of the algorithm in bits. | vpn Diffie-Hellman (DH) Groups (None/Group1/Group2/Group5/Group14/Group15/Group16/Group17/Group18) |
| 59 | save | Save vpn policy configuration changes. | |
| 60 | cancel | Roll back vpn policy configuration changes. | |
| 61 | exit | Save vpn policy configuration changes and exit current mode. | |

12.5 vpn ipsec policy disable <name>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|-----------------------------------|-------------------------------|
| 1 | name | Name of vpn policy to be disabled | Unsigned integer, Policy name |

12.6 vpn ipsec policy enable <name>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|----------------------------------|-------------------------------|
| 1 | name | Name of vpn policy to be enabled | Unsigned integer, Policy name |

12.7 vpn ipsec dhcp configure

| SI No | Command Name | Description | Type and Description |
|-------|---------------|---------------------------------------|--|
| 1 | Start_address | The starting IP address of the range. | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 2 | End_address | The end IP address of the range. | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 3 | Subnet_mask | Subnet Mask for the mentioned range. | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |

12.8 vpn sslvpn client

| SI No | Command Name | Description | Type and Description |
|-------|---------------------|--|--|
| 1 | enable_fulltunnel | Yes for full tunnel, No for split tunnel | Boolean (Y/N) |
| 2 | dns_suffix | DNS Suffix | String |
| 3 | primary_dns | Primary DNS Server | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 4 | secondary_dns | Secondary DNS Server | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 5 | begin_clientaddress | Client address range begin | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 6 | end_clientaddress | Client address range end | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 7 | lcp_timeout | LCP Timeout | Unsigned integer |

12.9 vpn sslvpn policy add/edit

| SI No | Command Name | Description | Type and Description |
|-------|------------------------|-------------------|--|
| 1 | policy_type | Policy For | Global, group, user |
| 2 | policy_owner | Policy owner | Global if global policy, group name if group policy and user name if user policy |
| 3 | destination_objecttype | Apply Policy to | Network-Resource, IP-Address, IP-Network, All-Addresses |
| 4 | policy_name | Policy Name | String, Max 128 characters and no ' or empty space or " |
| 5 | policy_address | Policy IP Address | IP address AAA.BBB.CCC.DDD where each part is in the range 0- |

| SI No | Command Name | Description | Type and Description |
|-------|-------------------|------------------|---|
| | | | 255 |
| 6 | policy_masklength | Mask Length | number in range of 0 to 32 |
| 7 | start_port | Begin port | Port number |
| 8 | end_port | End port | Port number |
| 9 | service_type | Defined service | VIRTUAL-PASSAGE, VIRTUAL-TRANSPORT, all(all) |
| 10 | resource_name | Defined Resource | String, Max 128 characters and no ' or empty space or " |
| 11 | policy_permission | Permission | Permit, Deny |
| 12 | icmp_block | Block Icmp | Boolean (Y/N) |

12.10 vpn sslvpn policy delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|--------------------------------|------------------------------|
| 1 | row_id | Row id of policy to be deleted | Unsigned integer, Row number |

12.11 vpn sslvpn portal-layouts add/edit

| SI No | Command Name | Description | Type and Description |
|-------|--------------------------------|--------------------------------------|---|
| 1 | portal_name | Portal Layout Name | String, Max 128 characters and no ' or empty space or " |
| 2 | portal_title | Portal Site Title | String, Max 128 characters and no ' or empty space or " |
| 3 | banner_title | Banner Title | String, Max 128 characters and no ' or empty space or " |
| 4 | banner_message | Banner Message | String, no ' or empty space or " |
| 5 | display_banner | Display Banner Message on login page | Boolean (Y/N) |
| 6 | enable_httpmetatags | HTTP Meta tags for cache control | Boolean (Y/N) |
| 7 | enable_activexwebcache cleaner | ActiveX webcache cleaner | Boolean (Y/N) |
| 8 | enable_vpntunnel | VPN Tunnel Page | Boolean (Y/N) |
| 9 | enable_portforwarding | Port Forwarding | Boolean (Y/N) |

12.12 vpn sslvpn portal-layouts delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|---------------------------------------|------------------------------|
| 1 | row_id | Row id of portal layout to be deleted | Unsigned integer, Row number |

12.13 vpn sslvpn portforwarding appconfig add

| SI No | Command Name | Description | Type and Description |
|-------|--------------|-------------------------|--|
| 1 | serverip | Local Server IP Address | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 2 | port | TCP Port Number | Port Number |

12.14 vpn sslvpn portforwarding appconfig delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|--|------------------------------|
| 1 | row_id | Row id of application configuration rule to be deleted | Unsigned integer, Row number |

12.15 vpn sslvpn portforwarding hostconfig add

| SI No | Command Name | Description | Type and Description |
|-------|--------------|-----------------------------|--|
| 1 | serverip | Local Server IP Address | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 2 | domain_name | Fully Qualified Domain Name | String, Max 128 characters and no ' or empty space or " |

12.16 vpn sslvpn portforwarding hostconfig delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|---|------------------------------|
| 1 | row_id | Row id of host configuration rule to be deleted | Unsigned integer, Row number |

12.17 vpn sslvpn resource add

| SI No | Command Name | Description | Type and Description |
|-------|---------------|---------------|---|
| 1 | resource_name | Resource Name | String, Max 128 characters and no ' or empty space or " |
| 2 | service_type | Service | VIRTUAL-PASSAGE, VIRTUAL-TRANSPORT, all(all) |

12.18 vpn sslvpn resource delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|----------------------------------|---------------------------------|
| 1 | row_id | Row id of resource to be deleted | Unsigned integer, Row number |

12.19 vpn sslvpn resource configure add <resource_name>

| SI No | Command Name | Description | Type and Description |
|-------|----------------|-------------------|--|
| 1 | resource_name | Resource name | String, Max 128 characters and no ' or empty space or " |
| 2 | object_type | Object Type | IP-Address, IP-Network |
| 3 | object_address | Object Address | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 4 | mask_length | Mask Length | number in range of 0 to 32 |
| 5 | start_port | Begin port number | Port number |
| 6 | end_port | End port number | Port number |
| 7 | icmp_block | Block Icmp | Boolean (Y/N) |

12.20 vpn sslvpn resource configure delete <row_id> <resource_name>

| SI No | Command Name | Description | Type and Description |
|-------|---------------|---|---|
| 1 | row_id | Row id of resource object to be deleted | Unsigned integer, Row number |
| 2 | Resource_name | Resource name | String, Max 128 characters and no ' or empty space or " |

12.21 vpn sslvpn route add

| SI No | Command Name | Description | Type and Description |
|-------|---------------------|---------------------|--|
| 1 | destination_network | Destination Network | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 2 | subnet_mask | Subnet Mask | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |

12.22 vpn sslvpn route delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|-------------------------------|---------------------------------|
| 1 | row_id | Row id of route to be deleted | Unsigned integer, Row number |

12.23 vpn sslvpn users users add

| SI No | Command Name | Description | Type and Description |
|-------|------------------|----------------------------------|--|
| 1 | user_name | User Name | String of any character type with no spaces |
| 2 | first_name | First Name of the user | String of any character type with no spaces |
| 3 | last_name | Last Name of the user | String of any character type with no spaces |
| 4 | user_type | Type of the user | Type of the user SSL VPN User ,Administrator,Guest ,Xauth user ,L2TP User,PPTP User or Local User |
| 5 | group | Group to which the user belong | String of any character type with no spaces |
| 6 | password | Password for the user | String of any character type with no spaces |
| 7 | confirm_password | Password confirmation | String of any character type with no spaces |
| 8 | idle_timeout | Idle time out value for the user | Integer value range between 1 and 999 |

12.24 vpn sslvpn users users edit <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|------------------------|---|
| 1 | user_name | User Name | String of any character type with no spaces |
| 2 | first_name | First Name of the user | String of any character type with no spaces |
| 3 | last_name | Last Name of the user | String of any character type with no spaces |
| 4 | user_type | Type of the user | Type of the user SSL VPN User ,Administrator,Guest ,Xauth user ,L2TP |

| SI No | Command Name | Description | Type and Description |
|-------|------------------|----------------------------------|---|
| | | | User, PPTP User or Local User |
| 5 | group | Group to which the user belong | String of any character type with no spaces |
| 6 | password | Password for the user | String of any character type with no spaces |
| 7 | confirm_password | Password confirmation | String of any character type with no spaces |
| 8 | idle_timeout | Idle time out value for the user | Integer value range between 1 and 999 |

12.25 vpn sslvpn users users delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|------------------------------|------------------------------|
| 1 | row_id | Row id of user to be deleted | Unsigned integer, Row number |

12.26 vpn sslvpn users domains add

| SI No | Command Name | Description | Type and Description |
|-------|--------------------------|--------------------------------------|---|
| 1 | domain_name | Domain Name | String of any character type with no spaces |
| 2 | authentication_type | Authentication type for the domain | Local user database, Radius PAP, Radius Chap, Radius MSCHAP, Radius MSCHAPV2, NT Domain, Active Directory and LDAP |
| 3 | portal | Portal to which the domain belongs | String of any character type with no spaces |
| 4 | authentication_server1 | First Authentication server address | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 5 | g authentication_server2 | Second Authentication server address | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 6 | authentication_server3 | Third Authentication server address | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 7 | timeout | Timeout for the authentication | Positive Integer range |

| SI No | Command Name | Description | Type and Description |
|-------|--------------------------------|---|---|
| 8 | retries | Retries to the server | Positive Integer range |
| 9 | authentication_secret | Secret key to the authentication server | String of any character type with no spaces |
| 10 | authentication_secret2 | Secondary secret key to the authentication server | String of any character type with no spaces |
| 11 | workgroup | Workgroup | String of any character type with no spaces |
| 12 | Second_workgroup | Secondary work group | String of any character type with no spaces |
| 13 | ldap_base_dn | Ldap base domain name | String of any character type with no spaces |
| 14 | second_ldap_base_dn | Secondary Ldap base domain name | String of any character type with no spaces |
| 15 | active_directory_domain | Active directory domain | String of any character type with no spaces |
| 17 | second_active_directory_domain | Secondary Active directory domain | String of any character type with no spaces |

12.27 vpn sslvpn users domains edit <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|------------------------|--------------------------------------|--|
| 1 | domain_name | Domain Name | String of any character type with no spaces |
| 2 | authentication_type | Authentication type for the domain | Local user database, Radius PAP, Radius Chap, Radius MSCHAP, Radius MSCHAPV2, NT Domain, Active Directory and LDAP |
| 3 | portal | Portal to which the domain belongs | String of any character type with no spaces |
| 4 | authentication_server1 | First Authentication server address | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 5 | authentication_server2 | Second Authentication server address | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 6 | authentication_server3 | Third Authentication server address | IP address AAA.BBB.CCC.DDD where each part is in the range 0- |

| SI No | Command Name | Description | Type and Description |
|-------|--------------------------------|---|---|
| | rver3 | | 255 |
| 7 | timeout | Timeout for the authentication | Positive Integer range |
| 8 | retries | Retries to the server | Positive Integer range |
| 9 | authentication_secret | Secret key to the authentication server | String of any character type with no spaces |
| 10 | authentication_secret2 | Secondary secret key to the authentication server | String of any character type with no spaces |
| 11 | workgroup | Workgroup | String of any character type with no spaces |
| 12 | Second_workgroup | Secondary work group | String of any character type with no spaces |
| 13 | ldap_base_dn | Ldap base domain name | String of any character type with no spaces |
| 14 | second_ldap_base_dn | Secondary Ldap base domain name | String of any character type with no spaces |
| 15 | active_directory_domain | Active directory domain | String of any character type with no spaces |
| 17 | second_active_directory_domain | Secondary Active directory domain | String of any character type with no spaces |

12.28 vpn sslvpn users domains delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|--------------------------------|------------------------------|
| 1 | row_id | Row id of domain to be deleted | Unsigned integer, Row number |

12.29 vpn sslvpn users groups add

| SI No | Command Name | Description | Type and Description |
|-------|--------------|--------------|---|
| 1 | group_name | User Name | String of any character type with no spaces |
| 2 | domain_name | Domain name | String of any character type with no spaces |
| 3 | idle_timeout | Idle Timeout | Integer range 1..999 |

12.30 vpn sslvpn users groups edit <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|--------------|---|
| 1 | group_name | User Name | String of any character type with no spaces |
| 2 | domain_name | Domain name | String of any character type with no spaces |
| 3 | idle_timeout | Idle Timeout | Integer range 1..999 |

12.31 vpn sslvpn users groups delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|--------------------------------|------------------------------|
| 1 | row_id | Row id of groups to be deleted | Unsigned integer, Row number |

12.32 vpn sslvpn users users login_policies <user_row_id>

| SI No | Command Name | Description | Type and Description |
|-------|-------------------------------|----------------------------------|----------------------|
| 1 | disable_login | Deny the user to login | Boolean (Y/N) |
| 2 | deny_login_from_wan_interface | Deny the user from Wan interface | Boolean (Y/N) |

12.33 vpn sslvpn users users ip_policies configure <user_row_id>

| SI No | Command Name | Description | Type and Description |
|-------|------------------------------------|----------------------------|--|
| 1 | allow_login_from_defined_addresses | Allow login | Boolean (Y/N) |
| 2 | add_ip_address | Add Ip Address | Boolean (Y/N) |
| 3 | source_address_type | Source Address Type | Ip address or Ip network |
| 4 | source_address | Source ip address | IP address AAA.BBB.CCC.DDD where each part is in the range 0-255 |
| 5 | mask_length | Source network mask length | Integer range 1 to 32 |

12.34 vpn sslvpn users users ip_policies delete <row_id>

| SI No | Command Name | Description | Type and Description |
|-------|--------------|--------------------------------------|---------------------------------|
| 1 | row_id | Row id of policy table to be deleted | Unsigned integer, Row number |

12.35 vpn sslvpn users users browser_policies <user_row_id>

| SI No | Command Name | Description | Type and Description |
|-------|-----------------------------------|--|--|
| 1 | allow_login_from_defined_browsers | Allow the user to login from defined browser | Boolean (Y/N) |
| 2 | add defined browser | Add the defined browser | Boolean (Y/N) |
| 3 | client_browser | Select the browser | Internet explorer,Mozilla,Firefox,Netscape,opera |
| 4 | del_client_browser | Delete the browser | Boolean (Y/N) |