
WiFi Command Reference

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WLAN-GW Commands

```

config
  — subscriber-mgmt
    — wlan-gw
      — mgw-profile profile-name [create]
      — no mgw-profile profile-name
        — description description-string
        — no description
        — interface-type {gn|s2a|s2b}
        — no interface-type
        — ip-ttl hops
        — no ip-ttl
        — keep-alive [interval seconds] [retry-count value] [timeout retry-seconds]
        — no keep-alive
        — message-retransmit [timeout timeout] [retry-count value]
        — no message-retransmit
        — signalling-protocol protocol
        — no signalling-protocol
      — serving-network mcc mcc-value mnc mnc-value
      — no serving-network

configure
  — router

```

```

— wlan-gw
  — apn apn
  — no apn
  — mgw-map
    — address ip-prefix[/prefix-length] [mgw-profile profile-name]
    — no address ip-prefix[/prefix-length]

configure
— service
  — vprn
    — wlan-gw
      — apn apn
      — no apn
      — mgw-map
        — address ip-prefix[/prefix-length] [mgw-profile profile-name]
        — no address ip-prefix[/prefix-length]

```

RADIUS Server and Proxy Commands

```

configure
— aaa
  — acct-on-off-group group-name [create]
  — acct-on-off-group group-name
    — description description-string
    — no description
  — radius-server-policy policy-name [create]
  — no radius-server-policy policy-name
    — accept-script-policy policy-name
    — no accept-script-policy
    — acct-on-off monitor-group group-name
    — acct-on-off oper-state-change [group group-name]
    — no acct-on-off
    — acct-request-script-policy policy-name
    — no acct-request-script-policy
    — auth-request-script-policy policy-name
    — no auth-request-script-policy
  — [no] buffering
    — acct-interim min min-val max max-val lifetime lifetime
    — no acct-interim
    — acct-stop min min-val max max-val lifetime lifetime
    — no acct-stop
  — description description-string
  — no description
  — servers
    — access-algorithm {direct | round-robin | hash-based}
    — no access-algorithm
    — hold-down-time [sec seconds] [min minutes]
    — no hold-down-time
    — retry count
    — no retry
    — router router-instance
    — router service-name service-name
    — no router
    — server server-index name server-name
    — no server server-index

```

- **source-address** *ip-address*
- **no source-address**
- **timeout** [**sec** *seconds*] [**min** *minutes*]
- **no timeout**

configure

- router
 - **radius-server**
 - **server** *server-name* [**address** *ip-address*] [**secret** *key*] [**hash**|**hash2**] [**port** *port*] [**create**]
 - **no server** *server-name*
 - [**no**] **accept-coa**
 - **acct-port** *port*
 - [**no**] **acct-port**
 - **auth-port** *port*
 - [**no**] **auth-port**
 - **coa-script-policy** *script-policy-name*
 - **no coa-script-policy**
 - **description** *description-string*
 - **no description**
 - **pending-requests-limit** *limit*
 - **no pending-requests-limit**

configure

- router
 - **radius-proxy**
 - **server** *server-name* [**create**] [**purpose** {[**accounting** | **authentication** | **both**]}]
 - **no server** *server-name*
 - **cache**
 - **key** **packet-type** {**accept**|**request**} **attribute-type** *attribute-type* [**vendor** *vendor-id*]
 - **no key**
 - [**no**] **shutdown**
 - **timeout** [**hrs** *hours*] [**min** *minutes*] [**sec** *seconds*]
 - **no timeout**
 - **track-accounting** [**stop**] [**interim-update**] [**accounting-on**] [**accounting-off**]
 - **no track-accounting**
 - **default-accounting-server-policy** *policy-name*
 - **no default-accounting-server-policy**
 - **default-authentication-server-policy** *policy-name*
 - **no default-authentication-server-policy**
 - **description** *description-string*
 - **no description**
 - [**no**] **interface** *interface-name*
 - **load-balance-key** [**vendor** *vendor-id* [*vendor-id...*(upto 5 max)]] **attribute-type** *attribute-type* [*attribute-type...*(upto 5 max)]
 - **load-balance-key** **source-ip-udp**
 - **no load-balance-key**
 - **secret** *secret* [**hash**|**hash2**]

```

— no secret
— [no] send-accounting-response
— [no] shutdown

configure
— service
— vprn
— radius-proxy
— server server-name [address ip-address] [secret key] [hash|hash2]
[port port] [create]
— no server server-name
— [no] accept-coa
— acct-port port
— no acct-port
— auth-port port
— no auth-port
— cache
— key packet-type {accept|request} attribute-type
attribute-type [vendor vendor-id]
— no key
— [no] shutdown
— timeout [hrs hours] [min minutes] [sec seconds]
— no timeout
— track-accounting [stop] [interim-update] [account-
ing-on] [accounting-off]
— no track-accounting
— coa-script-policy script-policy-name
— no coa-script-policy
— default-accounting-server-policy policy-name
— no default-accounting-server-policy
— default-authentication-server-policy policy-name
— no default-authentication-server-policy
— description description-string
— no description
— [no] interface interface-name
— load-balance-key [vendor vendor-id [vendor-id...(upto 5
max)]] attribute-type attribute-type [attribute-type...(upto 5
max)]
— load-balance-key source-ip-udp
— no load-balance-key
— pending-requests-limit limit
— no pending-requests-limit
— secret secret [hash|hash2]
— no secret
— [no] send-accounting-response
— [no] shutdown
— username [1..32] [prefix-string prefix-string] [accounting-
server-policy policy-name] [suffix-string suffix-string]
— no username [1..32]

```

LUBD Matching for RADIUS Proxy Cache

```

config
— subscriber-mgmt

```

- **local-user-db** *local-user-db-name* [**create**]
- **no local-user-db** *local-user-db-name*
 - **dhcp**
 - **host**
 - **match-radius-proxy-cache**
 - **fail-action** {**continue** | **drop**}
 - **no fail-action**
 - **mac-format** *mac-format*
 - **no mac-format**
 - **match** {**circuit-id**|**mac**|**remote-id**}
 - **match option** [1..254]
 - **no match**
 - **server** [**service service-id**] **name** *server-name*
 - **no server**

Data Plane Related Commands

- ```
config
— isa
— wlan-gw-group wlan-gw-group-id [create]
— no wlan-gw-group wlan-gw-group-id
 — active-iom-limit number
 — no active-iom-limit
 — description description-string
 — no description
 — iom slot-number
 — no iom
 — nat
 — radius-accounting-policy nat-accounting-policy
 — no radius-accounting-policy
 — session-limits
 — reserved num-sessions
 — no reserved
 — watermarks high percentage low percentage
 — no watermarks
 — [no] description
```

## Port Policy Commands

- ```
config
— port-policy policy-name [create]
— no port-policy policy-name
  — description description-string
  — no description
  — egress-scheduler-policy port-sched-plcy
  — no egress-scheduler-policy
```

Soft-GRE Group Interface Commands

```

config
  — service
    — vprn
    — ies
  — subscriber-interface
    — group-interface ip-int-name [create]
    — group-interface ip-int-name [create] lns
    — group-interface ip-int-name [create] softgre
    — no group-interface ip-int-name
      — ip-mtu octets
      — no ip-mtu
      — soft-gre
        — soft-gre
          — egress
            — agg-rate-limit kilobits-per-second
            — no agg-rate-limit
            — hold-time infinite
            — hold-time [1..86400]
            — no hold-time
            — qos policy-id
            — no qos
            — scheduler-policy scheduler-policy-name
            — no scheduler-policy
            — [no] shape-multi-client-only
            — shaping {per-retailer|per-tunnel}
            — no shaping
          — gw-address ip-address
          — no gw-address
          — gw-ipv6-address ipv6-address
          — no gw-ipv6-address
          — mobility
            — hold-time time in s
            — no hold-time
            — trigger [data] [iapp]
            — no trigger
          — router router-instance
          — no router
          — [no] shutdown
          — tcp-mss-adjust segment-size
          — no tcp-mss-adjust
          — vlan-tag-ranges
            — default-retail-svc-id service-id
            — no default-retail-svc-id
            — vlan start [0..4095] end [0..4095] retail-svc-id
              service-id
            — no vlan start [0..4095] end [0..4095]
          — wlan-gw-group group-id
          — no wlan-gw-group
        — [no] shutdown

```

WIFI Aggregation and Offload – Migrant User Support Commands

```

configure
  — subscriber-mgmt
    — http-redirect-policy policy-name [create]
    — no http-redirect-policy policy-name
      — description description-string
      — no description
      — dst-port tcp-port
      — no dst-port
      — forward-entries
        — [no] dst-ip ip-address protocol ip-protocol dst-port port-number
      — portal-hold-time seconds
      — no portal-hold-time
      — url rdr-url-string
      — no url

configure
  — service
    — vpn service-id/ies service-id
      — subscriber-interface ip-int-name
        — group-interface ip-int-name
          — soft-gre
            — authentication
              — authentication-policy policy-name
              — no authentication-policy
              — hold-time [hrs hours] [min minutes] [sec seconds]
              — no hold-time
            — [no] data-triggered-ue-creation
            — dhcp
              — active-lease-time [hrs hours] [min minutes] [sec seconds]
              — no active-lease-time
              — initial-lease-time [hrs hours] [min minutes] [sec seconds]
              — no initial-lease-time
              — l2-aware-ip-address ip-address
              — no l2-aware-ip-address
              — primary-dns ip-address
              — no primary-dns
              — primary-nbns ip-address
              — no primary-nbns
              — secondary-dns ip-address
              — no secondary-dns
              — secondary-nbns ip-address
              — no secondary-nbns
              — [no] shutdown
            — egress
              — agg-rate-limit kilobits-per-second
              — no agg-rate-limit

```

- **hold-time** *infinite*
- **hold-time** [1..86400]
- **no hold-time**
- **qos** *policy-id*
- **no qos**
- **scheduler-policy** *scheduler-policy-name*
- **no scheduler-policy**
- **[no] shape-multi-client-only**
- **shaping** {*per-retailer*|*per-tunnel*}
- **no shaping**
- **gw-address** *ip-address*
- **no gw-address**
- **http-redirect-policy** *policy-name*
- **no http-redirect-policy**
- **mobility**
 - **hold-time** *time in s*
 - **no hold-time**
 - **trigger** [*data*] [*iapp*]
 - **no trigger**
- **nat-policy** *policy-name*
- **no nat-policy**
- **router** *router-instance*
- **no router**
- **[no] shutdown**
- **tcp-mss-adjust** *segment-size*
- **no tcp-mss-adjust**
- **track-mobility**
 - **mac-format** *mac-format*
 - **no mac-format**
 - **radius-proxy-cache** **router** *router-instance*
server server-name
 - **no radius-proxy-cache**
- **vlan-tag-ranges**
 - **default-retail-svc-id** *service-id*
 - **no default-retail-svc-id**
 - **[no] range** **start** [0..4095] **end** [0..4095]
 - **authentication**
 - **authentication-policy** *policy-name*
 - **no authentication-policy**
 - **hold-time** [*hrs hours*] [*min minutes*]
[*sec seconds*]
 - **no hold-time**
 - **[no] data-triggered-ue-creation**
 - **dhcp**
 - **active-lease-time** [*hrs hours*] [*min minutes*] [*sec seconds*]
 - **no active-lease-time**
 - **initial-lease-time** [*hrs hours*] [*min minutes*] [*sec seconds*]
 - **no initial-lease-time**
 - **l2-aware-ip-address** *ip-address*
 - **no l2-aware-ip-address**
 - **primary-dns** *ip-address*
 - **no primary-dns**
 - **primary-nbns** *ip-address*

- **no primary-nbns**
- **secondary-dns** *ip-address*
- **no secondary-dns**
- **secondary-nbns** *ip-address*
- **no secondary-nbns**
- **[no] shutdown**
- **http-redirect-policy** *policy-name*
- **no http-redirect-policy**
- **nat-policy** *policy-name*
- **no nat-policy**
- **retail-svc-id** *service-id*
- **[no] track-mobility**
- **mac-format** *mac-format*
- **no mac-format**
- **radius-proxy-cache** **router** *router-instance*
server *server-name*
- **no radius-proxy-cache**
- **wlan-gw-group** *group-id*
- **no wlan-gw-group**

Show Commands

show

— router

- **radius-proxy-server** *server-name*
- **radius-proxy-server** *server-name* **cache**
- **radius-proxy-server** *server-name* **cache hex-key** *hex-string*
- **radius-proxy-server** *server-name* **cache string-key** *string*
- **radius-proxy-server** *server-name* **cache summary**
- **radius-proxy-server** *server-name* **statistics**
- **radius-proxy-server**
- **soft-gre-tunnels** **local-ip** *ip-address* **remote-ip** *ip-address* **ue**
- **soft-gre-tunnels** [**local-ip** *ip-address*] [**remote-ip** *ip-address*][**isa-group** *wlan-gw-group-id*]
[**member** [1..255]] [**summary**] [**detail**]

show

— aaa

- **acct-on-off-group** *group-name*
- **radius-server-policy** *policy-name* [**acct-on-off**]
- **radius-server-policy** *policy-name* **associations**
- **radius-server-policy** *policy-name* **msg-buffer-stats**
- **radius-server-policy** *policy-name* **statistics**
- **radius-server-policy** [**acct-on-off**]

show

— isa

- **wlan-gw-group** *wlan-gw-group-id*
- **wlan-gw-group** *wlan-gw-group-id* **associations**
- **wlan-gw-group** *wlan-gw-group-id* **member** [1..255] [**statistics**]
- **wlan-gw-group**

show

— subscriber-mgmt

— wlan-gw

- **gtp-session** **imsi** *imsi* **apn** *apn-string*
- **gtp-session** [**mgw-address** *ip-address*] [**mgw-router** *router-instance*] [**remote-control-teid** *teid*] [**local-control-teid** *teid*] [**detail**]
- **gtp-session** **imsi** *imsi*
- **gtp-statistics**
- **mgw-profile** *profile-name*
- **mgw-profile** *profile-name* **associations**
- **mgw-profile**
- **ssid**
- **statistics**
- **ue** [**vlan** *qtag*] [**mpls-label** *label*] [**retail-svc-id** *service-id*] [**ssid** *service-set-id*]
[**previous-access-point** *ip-address*]
- **ue mac** *ieee-address*

Tools Commands

```

tools
  — perfrom
      — aaa
          — acct-on [radius-server-policy policy-name] [force]
          — acct-off acct-off [radius-server-policy policy-name] [force] [acct-terminate-cause
              number]
      — dump
          — aaa
              — radius-server-policy policy-name msg-buffer [session-id acct-session-id]
          — wlan-gw
              — ue

```

Clear Commands

```

clear
  — aaa
      — radius-server-policy policy-name msg-buffer [acct-session-id acct-session-id]
      — radius-server-policy policy-name statistics [msg-buffer-only]
      — radius-server-policy policy-name server server-index statistics

```

