

WiFi Command Reference

Configuration Commands

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WLAN-GW Commands

Note that the **wlan-gw** commands apply only to the 7750 SR platform.

```

config
  — subscriber-mgmt
    — wlan-gw
      — distributed-sub-mgt
        — dsm-ip-filter filter-name [create]
        — no dsm-ip-filter filter-name
          — description description-string
          — no description
          — default-action {drop|forward}
          — no default-action
          — entry entry-id [create]
          — no entry entry-id
            — action {drop|forward|none}
            — no action
            — description description-string
            — no description
            — match protocol {any|icmp|tcp|udp|gre}
            — no match
            — dst-port operator port-number
            — no dst-port
            — dst-ip ip-prefix/length
            — no dst-ip
        — dsm-policer policer-name [type policer-type] [create]
  
```

- **no dsm-policer**
 - **action** {*permit-deny*|*priority-mark*}
 - **no action**
 - **adaptation-rule** **pir** *adaptation-rule* [**cir** *adaptation-rule*]
 - **no adaptation-rule**
 - **cbs** *burst-size*
 - **no cbs**
 - **mbs** *burst-size*
 - **no mbs**
 - **rate** *rate* [**cir** *rate*]
 - **no rate**
- **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**
 - **report-wlan-location**
 - **no report-wlan-location**
 - **signalling-protocol** *protocol*
 - **no signalling-protocol**
- **serving-network** **mcc** *mcc-value* **mnc** *mnc-value*
- **no serving-network**
- **virtual-chassis-identifier** *dual-homing-key*
- **no virtual-chassis-identifier**

configure

- router
 - wlan-gw
 - **apn** *apn*
 - **no apn**
 - **distributed-sub-mgmt**
 - **ipv6-tcp-mss-adjust** *segment-size*
 - **no ipv6-tcp-mss-adjust**
 - **mgw-map**
 - **address** *ip-prefix*[/*prefix-length*] [**mgw-profile** *profile-name*]
 - **no address** *ip-prefix*[/*prefix-length*]
 - **mobility-triggered-acct**
 - **interim-update**
 - **no interim-update**

WLAN-GW Service Commands

```

configure
  — service
    — vprn service-id/ies service-id
      — wlan-gw
        — apn apn
        — no apn
        — distributed-sub-mgmt
          — ipv6-tcp-mss-adjust segment-size
          — no ipv6-tcp-mss-adjust
        — mgw-map
          — address ip-prefix[/prefix-length] [mgw-profile profile-name]
          — no address ip-prefix[/prefix-length]
        — mobility-triggered-acct
          — interim-update
          — no interim-update
      — subscriber-interface ip-int-name
        — group-interface ip-int-name [create]
        — group-interface ip-int-name [create] lns
        — group-interface ip-int-name [create] wlangw
        — no group-interface ip-int-name
          — ip-mtu octets
          — no ip-mtu
          — wlan-gw
            —
            — egress
              — [no] agg-rate-limit
                — [no] limit-unused-bandwidth
                — [no] queue-frame-based-accounting
                — rate kilobits-per-second
                — no rate
                — 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
            — l2-access-points
              — l2-ap sap-id [create]
              — no l2-ap sap-id
                — encap-type {default|null|dot1q|qinq}
                — no encap-type
                — epipe-sap-template name
                — no epipe-sap-template
                — [no] shutdown
            — l2-ap-encap-type {null|dot1q|qinq}

```

- **no l2-ap-encap-type**
- **mobility**
 - **arp-ap**
 - **no arp-ap**
 - **hold-time** *time in s*
 - **no hold-time**
 - **trigger** [*data*] [*iapp*]
 - **no trigger**
- [**no**] **multi-tunnel-type**
- [**no**] **oper-down-on-group-degrade**
- **router** *router-instance*
- **no router**
- [**no**] **shutdown**
- **tcp-mss-adjust** *segment-size*
- **no tcp-mss-adjust**
- **tunnel-encaps**
 - **learn-l2tp-cookie** {*if-match|never|always*}
 - [**cookie** *hex string*]
 - **no learn-l2tp-cookie**
- **vlan-tag-ranges**
 - **range start** [0..4096] **end** [0..4096]
 - **range default**
 - **no range start** [0..4096] **end** [0..4096]
 - **authenticate-on-dhcp**
 - **authentication**
 - **authentication-policy** *policy-name*
 - **no authentication-policy**
 - **hold-time** [**hrs** *hours*] [**min** *minutes*] [**sec** *seconds*]
 - [**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**
 - **dhcp6**
 - **active-preferred-lifetime** [**hrs** *hours*] [**min** *minutes*] [**sec** *seconds*]
 - **no active-preferred-lifetime**
 - **active-valid-lifetime** [**hrs** *hours*] [**min** *minutes*] [**sec** *seconds*]
 - **no active-valid-lifetime**

- **initial-preferred-lifetime** [**hrs hours**] [**min minutes**] [**sec seconds**]
- **no initial-preferred-lifetime**
- **initial-valid-lifetime** [**hrs hours**] [**min minutes**] [**sec seconds**]
- **no initial-valid-lifetime**
- [**no**] **shutdown**
- **distributed-sub-mgmt**
 - **accounting-policy** *policy-name*
 - **no accounting-policy**
 - **accounting-update-interval**
 - **accounting-update-interval** [5..259200]
 - **no accounting-update-interval**
 - **def-app-profile**
 - **def-app-profile** *profile-name*
 - **no def-app-profile**
 - **dsm-ip-filter**
 - **dsm-ip-filter** *dsm-ip-filter-name*
 - **no dsm-ip-filter**
 - **egress-policer**
 - **egress-policer** [256 chars max]
 - **no egress-policer**
 - **ingress-policer**
 - **ingress-policer** *policer-name*
 - **no ingress-policer**
 - **one-time-redirect**
 - **one-time-redirect** **url** *rdr-url-string*
 - **port** *port-num*
 - **no one-time-redirect**
 - [**no**] **shutdown**
- **idle-timeout** **action** *idle-timeout-action*
- **no idle-timeout**
- **http-redirect-policy** *policy-name*
- **no http-redirect-policy**
- **l2-service** *service-id*
- **no l2-service**
 - **description** *description-string*
 - **no description**
 - [**no**] **shutdown**
- **nat-policy** *policy-name*
- **no nat-policy**
- **retail-svc-id** *service-id*
- [**no**] **router-advertisements**
 - [**no**] **current-hop-limit** *limit*
- [**no**] **track-mobility**
- **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**
- **pool-manager**

- **dhcpv6-client**
 - **ia-na**
 - **link-addr** *ipv6-address*
 - **no link-addr**
 - **pool-name** *name*
 - **no pool-name**
 - **[no] shutdown**
 - **lease-query** [**max-retry** *Max nbr of retries*]
 - **no lease-query**
 - **server** *ipv6-address* [*ipv6-address...(upto 8 max)*]
 - **no server** [*ipv6-address* [*ipv6-address...(upto 8 max)*]]
 - **slaac**
 - **link-addr** *ipv6-address*
 - **no link-addr**
 - **pool-name** *name*
 - **no pool-name**
 - **[no] shutdown**
 - **source-ip** *ipv6-address*
 - **no source-ip**
 - **watermarks** **high** *high-percentage* **low** *low-percentage*
 - **no watermarks**
 - **wlan-gw-group** *nat-group-id*
 - **no wlan-gw-group**
 - **redundancy**
 - **export** *ip-prefix/length*
 - **no export**
 - **monitor** *ip-prefix/length*
 - **no monitor**
 - **[no] shutdown**
- configure**
 - **service**
 - **vpls** *service-id*
 - **wlan-gw**
 - **description** *description-string*
 - **no description**
 - **sap-template** *sap template*
 - **no sap-template**
 - **[no] shutdown**

RADIUS Server and Proxy Commands

```

configure
  — aaa
    — acct-on-off-group group-name [create]
    — no 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
      — ipv6-source-address ipv6-address
      — no ipv6-source-address
      — 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]}] [wlan-gw-
 group group-id]
 — 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 [start] [stop] [interim-update] [accounting-
 on] [accounting-off]
 — no track-accounting
 — track-authentication [accept]
 — no track-authentication
 — track-delete-hold-time seconds
 — no track-delete-hold-time
 — 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)]] attri-
 bute-type attribute-type [attribute-type...(upto 5 max)]
 — load-balance-key source-ip-udp
 — no load-balance-key
 — python-policy name
 — no python-policy
 — secret secret [hash|hash2]
 — no secret
 — [no] send-accounting-response
 — [no] shutdown

```

- ```

configure
  — service
    — vprn
      — radius-proxy

```


- **server** *server-name* [**create**] [**purpose** {[**accounting** | **authentication**]}] [**wlan-gw-group** *group-id*]
- **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**] [**accounting-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]

LUDB 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
      — [no] distributed-sub-mgmt
        — isa-aa-group aa-group-id
        — no isa-aa-group
      — 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**

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
        — dst-ip ip-address protocol ip-protocol dst-port port-number
        — dst-ip ip-address protocol ip-protocol dst-port port-number prefix-
          length prefix-length
        — 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
```

Distributed Subscriber Management Commands

```

config
  — router
    — subscriber-management
      — wlan-gw
        — dsm-ip-filter name [create]
        — no dsm-ip-filter name
          — default-action {drop|forward}
          — no default-action
          — description description-string
          — no description
          — entry entry-id [create]
          — no entry entry-id
            — action {drop|forward|none}
            — no action
            — description description-string
            — no description
            — match protocol {any|icmp|tcp|udp|gre}
            — no match
              — dst-ip ip-prefix/length
              — no dst-ip
              — dst-port operator port-number
              — no dst-port
        — ipv6
          — default-action {drop|forward}
          — no default-action
          — entry entry-id [create]
          — no entry entry-id
            — action {drop|forward|none}
            — no action
            — description description-string
            — no description
            — match protocol {any|icmp|tcp|udp|gre}
            — no match
              — dst-ip ipv6-address/prefix-length
              — no dst-ip
              — dst-port operator port-number
              — no dst-port
        — dsm-policer policer-name [type policer-type] [create]
        — no dsm-policer policer-name
          — action {permit-deny|priority-mark}
          — no action
          — adaptation-rule pir adaptation-rule [cir {adaptation-rule}]
          — no adaptation-rule
          — cbs burst-size
          — no cbs
          — description description-string
          — no description
          — mbs burst-size
          — no mbs
          — rate rate [cir rate]
          — no rate

```

Configuration Commands

```
config
  — service
    — vprn service-id/ies service-id
      — subscriber-interface
        — group-interface ip-int-name [create]
        — group-interface ip-int-name [create] lns
        — group-interface ip-int-name [create] wlangw
        — no group-interface ip-int-name
          — wlan-gw
            — vlan-tag-ranges
              — range start [0..4096] end [0..4096]
              — range default
              — no range start [0..4096] end [0..4096]
                — distributed-sub-mgmt
                  — accounting-policy policy-name
                  — no accounting-policy
                  — accounting-update-interval
                  — accounting-update-interval
                    [5..259200]
                  — no accounting-update-interval
                  — def-app-profile
                  — def-app-profile profile-name
                  — no def-app-profile
                  — dsm-ip-filter
                  — dsm-ip-filter dsm-ip-filter-name
                  — no dsm-ip-filter
                  — egress-policer
                  — egress-policer [256 chars max]
                  — no egress-policer
                  — ingress-policer
                  — ingress-policer policer-name
                  — no ingress-policer
                  — one-time-redirect
                  — one-time-redirect url rdr-url-string
                  — port port-num
                  — no one-time-redirect
                  — [no] shutdown
```

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**
- **wlan-gw**
 - **isa-subnets** [**detail**]
 - **isa-subnets** [**detail**] **interface** *interface-name*
 - **isa-subnets** **prefix** *ipv6-address/prefix-length*
 - **mgw-address-cache** [**arec**] [**snaptr**] [**srv**]
 - **mgw-address-cache** **apn** *apn-domain-string*
 - **mgw-map**
 - **mobile-gateway** [**mgw-profile** *profile-name*] [**local-address** *ip-address*] [**control protocol**] [**interface-type** *interface-type*]
 - **mobile-gateway** **remote-address** *ip-address* [**udp-port** *port*]
 - **mobile-gateway** **remote-address** *ip-address* [**udp-port** *port*] **statistics**
 - **soft-gre-tunnel-qos** [**detail**]
 - **soft-gre-tunnel-qos** **remote-ip** *ip-address* [**local-ip** *ip-address*] [**detail**]
 - **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**]
 - **soft-gre-tunnels** **local-ip** *ip-address* **remote-ip** *ip-address* **ue**
 - **tunnels** [**local-ip** *ip-address*] [**remote-ip** *ip-address*] [**isa-group** *wlan-gw-group-id*] [**member** [1..255]] [**summary**] [**detail**]
 - **tunnels** **local-ip** *ip-address* **remote-ip** *ip-address* **ue**

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

```

```

clear
  — router
      — wlan-gw
          — isa-subnets all
          — isa-subnets interface intfip-int-name
          — isa-subnets prefix ipv6-address/prefix-length

```

