
Triple Play DHCP Command Reference

Configuration Commands

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Router DHCP Commands

```

config
  — router
    — dhcp
    — dhcp6
      — local-dhcp-server server-name [create]
      — no local-dhcp-server server-name
        — description description-string
        — no description
        — failover
          — maximum-client-lead-time [hrs hours] [min minutes] [sec seconds]
          — no maximum-client-lead-time
          — partner-down-delay [hrs hours] [min minutes] [sec seconds]
          — no partner-down-delay
          — peer ip-address tag sync-tag-name
          — no peer ip-address
          — [no] shutdown
          — no startup-wait-time [min minutes] [sec seconds]
          — startup-wait-time [min minutes] [sec seconds]
        — [no] force-renews
        — [no] ignore-rapid-commit
        — [no] interface-id-mapping
        — lease-hold-time [days days] [hrs hours] [min minutes] [sec seconds]
        — no lease-hold-time
        — pool pool-name [create]
        — no pool pool-name
          — delegated-prefix-length [48..64]
          — description description-string
          — no description

```

- **max-lease-time** [*days days*] [*hrs hours*] [*min minutes*] [*sec seconds*]
- **no max-lease-time**
- **min-lease-time** [*days days*] [*hrs hours*] [*min minutes*] [*sec seconds*]
- **no min-lease-time**
- **minimum-free** *minimum-free* [*percent*] [*event-when-depleted*]
- **no minimum-free**
- **offer-time** [*min minutes*] [*sec seconds*]
- **no offer-time**
- **options**
 - **custom-option** *option-number* **address** [*ip-address...*(up to 4 max)]
 - **custom-option** *option-number* **hex** *hex-string*
 - **custom-option** *option-number* **string** *ascii-string*
 - **no custom-option** *option-number*
 - **dns-server** [*ip-address...*(up to 4 max)]
 - **domain-name** *domain-name*
 - **no domain-name**
 - **lease-rebind-time** [*days days*] [*hrs hours*] [*min minutes*] [*sec seconds*]
 - **no lease-rebind-time**
 - **lease-renew-time** [*days days*] [*hrs hours*] [*min minutes*] [*sec seconds*]
 - **no lease-renew-time**
 - **lease-time** [*days days*] [*hrs hours*] [*min minutes*] [*sec seconds*]
 - **no lease-time**
 - **netbios-name-server** **ip-address** [*ip-address...*(up to 4 max)]
 - **no netbios-name-server**
 - **netbios-node-type** *netbios-node-type*
 - **no netbios-node-type**
- **prefix** *ipv6-addr/prefix-len* [*failover {local | remote}*] [*pd*] [*wan-host*] [*create*]
- **no prefix** *ipv6-addr/prefix-len*
- **subnet** {*ip-address/mask*|*ip-address netmask*} [*create*]
- **no subnet** {*ip-address/mask*|*ip-address netmask*}
 - [*no*] **address-range** *start-ip-address end-ip-address*
 - [*no*] **drain**
 - [*no*] **exclude-addresses** *start-ip-address* [*end-ip-address*]
 - **maximum-declined** *maximum-declined*
 - **no maximum-declined**
 - **minimum-free** *minimum-free* [*percent*] [*event-when-depleted*]
 - **no minimum-free**
 - **options**
 - **custom-option** *option-number* **address** [*ip-address...*(upto 4 max)]
 - **custom-option** *option-number* **hex** *hex-string*
 - **custom-option** *option-number* **string** *ascii-string*
 - **no custom-option** *option-number*
 - **default-router** *ip-address* [*ip-address...*(up to 4 max)]
 - **no default-router**

- **subnet-mask** *ip-address*
- **no subnet-mask**
- **subnet-binding key** [**sys-id-svc-id** | **sys-id** | **string**] **unbind-delay** [**hrs** *hours*] [**min** *mins*] [**sec** *secs*]
- **no subnet-binding key**
- **use-gi-address** [**scope** *scope*]
- **no use-gi-address**
- **use-pool-from-client delimiter** *delimiter*
- **use-pool-from-client**
- **no use-pool-from-client**
- **use-link-address** [**scope** *scope*]
- **no use-link-address**
- **user-db** *local-user-db-name*
- **no user-db**
- **user-ident** *user-ident*
- **no user-ident**

VPLS DHCP Commands

```

config
  — service
    — [no] vpls service-id [customer customer-id] [vpn vpn-id] [m-vpls]
      — sap sap-id [split-horizon-group group-name]
        — dhcp
          — description description-string
          — no description
          — lease-populate [nbr-of-entries]
          — no lease-populate
          — [no] option
            — action {dhcp-action}
            — no action
            — [no] circuit-id [ascii-tuple | vlan-ascii-tuple]
            — remote-id [mac | string string]
            — no remote-id
            — [no] vendor-specific-option
              — [no] client-mac-address
              — [no] sap-id
              — [no] service-id
              — string text
              — no string
              — [no] system-id
            — proxy-server
              — emulated-server
              — lease-time
              — [no] shutdown
            — [no] shutdown
            — [no] snoop
          — dhcp-user-db local-user-db-name
          — no dhcp-user-db
          — dhcp6
          — dhcp6-user-db local-user-db-name
          — no dhcp6-user-db
        — mesh-sdp sdp-id[:vc-id] [vc-type {ether | vlan}]
          — dhcp
            — description description-string
            — no description
            — [no] snoop
          — ppp-user-db local-user-db-name
          — no ppp-user-db
          — pppoe-user-db local-user-db-name
          — no pppoe-user-db
        — spoke-sdp sdp-id[:vc-id] [vc-type {ether | vlan}] [split-horizon-group group-
          name]
          — dhcp
            — description description-string
            — no description
            — [no] snoop

```

IES DHCP Commands

```

config
  — service
    — ies service-id [customer customer-id] [vpn vpn-id]
      — [no] interface ip-int-name
        — dhcp
          — description description-string
          — no description
          — gi-address ip-address [src-ip-addr]
          — no gi-address
          — lease-populate nbr-of-leases
          — no lease-populate
          — [no] option
            — action {replace | drop | keep}
            — no action
            — circuit-id [ascii-tuple | ifindex | sap-id | vlan-ascii-tuple]
            — no circuit-id
            — remote-id [mac | string string]
            — no remote-id
            — [no] vendor-specific-option
              — [no] client-mac-address
              — [no] pool-name
              — [no] sap-id
              — [no] service-id
              — string text
              — no string
              — [no] system-id
          — proxy-server
            — emulated-server ip-address
            — no emulated-server
            — lease-time [days days] [hrs hours] [min minutes] [sec seconds] [override]
            — no lease-time
            — [no] shutdown
          — [no] relay-plain-bootp
          — relay-unicast-msg [release-update-src-ip]
          — no relay-unicast-msg
          — server server1 [server2...(up to 8 max)]
          — no server
          — [no] shutdown
          — [no] trusted
        — [no] ipv6
          — address ipv6-address/prefix-length [eui-64]
          — no address ipv6-address/prefix-length
          — [no] dhcp6-relay
            — description description-string
            — no description
            — lease-populate [nbr-of-leases]
            — no lease-populate
            — [no] neighbor-resolution
            — [no] option
              — interface-id
              — interface-id ascii-tuple

```

- **interface-id** *ifindex*
- **interface-id** *sap-id*
- **no interface-id**
- **[no] remote-id**
- **server** *ipv6z-address [ipv6z-address...(up to 8 max)]*
- **no server** *[ipv6z-address...(up to 8 max)]*
- **description** *description-string*
- **no description**
- **source-address** *ipv6-address*
- **no source-address**
- **[no] dhcp6-server**
 - **max-nbr-of-leases** *max-nbr-of-leases*
 - **no max-nbr-of-leases**
 - **[no] prefix-delegation**
 - **[no] prefix** *ipv6-address/prefix-length*
 - **duid** *duid [iaid iaaid]*
 - **no duid**
 - **preferred-lifetime** *seconds*
 - **preferred-lifetime infinite**
 - **no preferred-lifetime**
 - **valid-lifetime** *seconds*
 - **valid-lifetime infinite**
 - **no valid-lifetime**
 - **[no] shutdown**
- **icmp6**
 - **packet-too-big** *[number seconds]*
 - **no packet-too-big**
 - **param-problem** *[number seconds]*
 - **no param-problem**
 - **redirects** *[number seconds]*
 - **no redirects**
 - **time-exceeded** *[number seconds]*
 - **no time-exceeded**
 - **unreachables** *[number seconds]*
 - **no unreachables**
- **[no] local-proxy-nd**
- **neighbor** *ipv6-address mac-address*
- **no neighbor** *ipv6-address*
- **proxy-nd-policy** *policy-name [policy-name...(up to 5 max)]*
- **no proxy-nd-policy**
- **[no] subscriber-interface** *ip-int-name*
 - **dhcp**
 - **gi-address** *ip-address [src-ip-addr]*
 - **no gi-address**
 - **relay-unicast-msg** *[release-update-src-ip]*
 - **no relay-unicast-msg**
 - **[no] group-interface** *ip-int-name*
 - **dhcp**
 - **client-applications** *{{[dhcp] [pppoe]}*
 - **no client-applications**
 - **description** *description-string*
 - **no description**
 - **gi-address** *ip-address [src-ip-addr]*
 - **no gi-address**
 - **lease-populate** *[nbr-of-leases]*
 - **lease-populate** *[nbr-of-leases] I2-header [mac ieee-address]*

- **no lease-populate**
- [no] **match-circuit-id**
- [no] **option**
 - **action** {replace | drop | keep}
 - **no action**
 - **circuit-id** [ascii-tuple | ifindex | sap-id | vlan-ascii-tuple]
 - **no circuit-id**
 - **remote-id** [mac | string *string*]
 - **no remote-id**
 - [no] **vendor-specific-option**
 - [no] **client-mac-address**
 - [no] **pool-name**
 - [no] **sap-id**
 - [no] **service-id**
 - **string** *text*
 - **no string**
 - [no] **system-id**
- **relay-unicast-msg** [*release-update-src-ip*]
- **no relay-unicast-msg**
- **server** *server1* [*server2...*(up to 8 max)]
- **no server**
- [no] **shutdown**
- [no] **trusted**
- [no] **pppoe**
 - **anti-spoof** *pppoe-anti-spoofing-type*
 - **no anti-spoof**
 - **description** *description-string*
 - **no description**
 - **dhcp-client**
 - [no] **ccag-use-origin-sap**
 - **policy** *ppp-policy-name*
 - **no policy**
 - **sap-session-limit** *sap-session-limit*
 - **no sap-session-limit**
 - **session-limit** *session-limit*
 - **no session-limit**
 - [no] **shutdown**
 - **user-db** *local-user-db-name*
 - **no user-db**

VPRN DHCP Commands

```

config
  — service
    — vprn
      — [no] interface ip-int-name
        — dhcp
          — description description-string
          — no description
          — gi-address ip-address [src-ip-addr]
          — no gi-address
          — lease-populate [nbr-of-leases]
          — no lease-populate
          — [no] option
            — action {replace | drop | keep}
            — no action
            — circuit-id [ascii-tuple | ifindex | sap-id | vlan-ascii-tup]
            — no circuit-id
            — remote-id [mac | string string]
            — no remote-id
            — [no] vendor-specific-option
              — [no] client-mac-address
              — [no] pool-name
              — [no] sap-id
              — [no] service-id
              — string text
              — no string
              — [no] system-id
            — proxy-server
              — emulated-server ip-address
              — no emulated-server
              — lease-time [days days] [hrs hours] [min minutes] [sec seconds] [override]
              — no lease-time
              — [no] shutdown
          — [no] relay-plain-bootp
          — relay-unicast-msg [release-update-src-ip]
          — no relay-unicast-msg
          — server server1 [server2...(up to 8 max)]
          — no server
          — [no] shutdown
          — [no] trusted
          — [no] use-arp

```


VPRN DHCP Subscriber Interface Commands

```

config
  — service
    — vprn
      — subscriber-interface ip-int-name [fwd-service service-id fwd-subscriber-interface
        ip-int-name] [create]
      — no subscriber-interface ip-int-name
        — dhcp
          — client-applications dhcp
          — client-applications pppoe
          — client-applications dhcp pppoe
          — no client-applications
          — description description-string
          — no description
          — gi-address ip-address [src-ip-addr]
          — no gi-address
          — lease-populate nbr-of-leases
          — no lease-populate
          — [no] option
            — [no] vendor-specific-option
              — [no] client-mac-address
              — [no] sap-id
              — [no] service-id
              — string text
              — no string
              — [no] system-id
            — proxy-server
              — emulated-server ip-address
              — no emulated-server
              — lease-time [days days] [hrs hours] [min minutes] [sec
                seconds] [override]
              — no lease-time
              — [no] shutdown
            — relay-unicast-msg [release-update-src-ip]
            — no relay-unicast-msg
            — server server1 [server2...(up to 8 max)]
            — no server
            — [no] shutdown
          — [no] group-interface ip-int-name
            — [no] arp-populate
            — arp-timeout seconds
            — no arp-timeout
            — authentication-policy name
            — no authentication-policy
            — description description-string
            — no description
            — dhcp
              — description description-string
              — no description
              — gi-address ip-address [src-ip-addr]
              — no gi-address
              — lease-populate [nbr-of-leases] l2-header [mac ieee-
                address]
              — no lease-populate

```

- [no] **match-circuit-id**
- [no] **option**
 - **action** {replace | drop | keep}
 - **no action**
 - **circuit-id** [ascii-tuple|ifindex|sap-id|vlan-ascii-tuple]
 - **no circuit-id**
 - **remote-id** [mac | string *string*]
 - **no remote-id**
 - [no] **vendor-specific-option**
 - [no] **client-mac-address**
 - [no] **sap-id**
 - [no] **service-id**
 - **string** *text*
 - **no string**
 - [no] **system-id**
- **proxy-server**
 - **emulated-server** *ip-address*
 - **no emulated-server**
 - **lease-time** [days *days*] [hrs *hours*] [min *minutes*] [sec *seconds*] [override]
 - **no lease-time**
 - [no] **shutdown**
- **relay-unicast-msg** [*release-update-src-ip*]
- **no relay-unicast-msg**
- **server** *server1* [*server2...*(up to 8 max)]
- **no server**
- [no] **shutdown**
- [no] **trusted**

Local User Database Commands

```

config
  — subscriber-mgmt
    — local-user-db local-user-db-name [create]
    — no local-user-db local-user-db-name
      — description description-string
      — no description
    — dhcp
      — mask {[prefix-string prefix-string | prefix-length prefix-length] [suffix-
string suffix-string | suffix-length suffix-length]}
      — no mask
      — host host-name [create]
      — no host host-name
        — address gi-address [scope scope]
        — address ip-address
        — address pool pool-name [secondary-pool sec-pool-name]
[delimiter delimiter]
        — address use-pool-from-client [delimiter delimiter]
        — no address
        — no auth-domain-name
        — auth-policy policy-name
        — no auth-policy
        — auth-domain-name domain-name
      — host-identification
        — circuit-id string ascii-string
        — circuit-id hex hex-string
        — no circuit-id
        — encap-tag-range start-tag start-tag end-tag end-tag
        — no encap-tag-range
        — mac ieee-address
        — no mac
        — option60 hex-string
        — no option60
        — remote-id remote-id
        — no remote-id
        — sap-id sap-id
        — no sap-id
        — service-id service-id
        — no service-id
        — string string
        — no string
        — system-id system-id
        — no system-id
      — identification-strings option-number [create]
      — no identification-strings
        — ancp-string ancp-string
        — no ancp-string
        — app-profile-string app-profile-string
        — no app-profile-string
        — inter-dest-id intermediate-destination-id
        — no inter-dest-id
        — sla-profile-string sla-profile-string
        — no sla-profile-string
        — sub-profile-string sub-profile-string

```

- **no sub-profile-string**
- **subscriber-id** *sub-ident-string*
- **no subscriber-id**
- **ipv6-address** *ipv6-address*
- **no ipv6-address**
- **ipv6-delegated-prefix** *ipv6-prefix/prefix-length*
- **no ipv6-delegated-prefix**
- **ipv6-delegated-prefix-pool** *pool-name*
- **no ipv6-delegated-prefix-pool**
- **ipv6-delegated-prefix-length** *bits*
- **no ipv6-delegated-prefix-length**
- **ipv6-slaac-prefix** *ipv6-prefix/prefix-length*
- **no ipv6-slaac-prefix**
- **ipv6-prefix** *ipv6-prefix/prefix-length*
- **no ipv6-prefix**
- **ipv6-wan-address-pool** *pool-name*
- **no ipv6-wan-address-pool**
- **msap-defaults**
 - **group-interface** *ip-int-name* [**prefix** {*port-id*}]
 - **group-interface** *ip-int-name* [**suffix** {*port-id*}]
 - **no group-interface**
 - **policy** *msap-policy-name*
 - **no policy**
 - **service** *service-id*
 - **no service**
- **[no] retail-service** *service-id*
- **options**
 - **custom-option** *option-number* **address** [*ip-address...*(up to 4 max)]
 - **custom-option** *option-number* **hex** *hex-string*
 - **custom-option** *option-number* **string** *ascii-string*
 - **no custom-option** *option-number*
 - **dns-server** *ipv6-address* [*ipv6-address...*(upto 4 max)]
 - **no dns-server**
 - **domain-name** *domain-name*
 - **no domain-name**
 - **lease-rebind-time** [**days** *days*] [**hrs** *hours*] [**min** *minutes*] [**sec** *seconds*]
 - **no lease-rebind-time**
 - **lease-renew-time** [**days** *days*] [**hrs** *hours*] [**min** *minutes*] [**sec** *seconds*]
 - **no lease-renew-time**
 - **lease-time** [**days** *days*] [**hrs** *hours*] [**min** *minutes*] [**sec** *seconds*]
 - **no lease-time**
 - **netbios-name-server** **ip-address** [*ip-address...*(up to 4 max)]
 - **no netbios-name-server**
 - **netbios-node-type** *netbios-node-type*
 - **no netbios-node-type**
 - **subnet-mask** *ip-address*
 - **no subnet-mask**
- **options6**
 - **dns-server** *ipv6-address* [*ipv6-address...*(upto 4 max)]
 - **no dns-server**

- **server** *ip-address*
- **no server**
- **[no] shutdown**
- **mask** *dhcp-match-type* {[**prefix-string** *prefix-string* | **prefix-length** *prefix-length*] [**suffix-string** *suffix-string* | **suffix-length** *suffix-length*]}
- **no mask** *type dhcp-match-type*
- **match-list** *dhcp-match-type-1* [*dhcp-match-type-2...*(up to 4 max)]
- **no match-list**
- **PPP**
 - **mask** {[**prefix-string** *prefix-string* | **prefix-length** *prefix-length*] [**suffix-string** *suffix-string* | **suffix-length** *suffix-length*]}
 - **no mask**
 - **host** *host-name* [**create**]
 - **no host** *host-name*
 - **[no] access-loop-encapsulation**
 - **encap-offset** [**type** *type*]
 - **no encap-offset**
 - **rate-down** *rate*
 - **no rate-down**
 - **access-loop-information**
 - **circuit-id** *sap-id*
 - **circuit-id** *ASCII string*
 - **no circuit-id**
 - **remote-id** *mac*
 - **remote-id** *ASCII string*
 - **no remote-id**
 - **acct-policy** *acct-policy-name* [**duplicate** *acct-policy-name*]
 - **no acct-policy**
 - **address** *gi-address* [**scope** *scope*]
 - **address** *ip-address*
 - **address** *pool pool-name* [**secondary-pool** *sec-pool-name*] [**delimiter** *delimiter*]
 - **address** *use-pool-from-client* [**delimiter** *delimiter*]
 - **no address**
 - **auth-policy** *policy-name*
 - **no auth-policy**
 - **host-identification**
 - **circuit-id** **string** *ascii-string*
 - **circuit-id** **hex** *hex-string*
 - **no circuit-id**
 - **encap-tag-range** **start-tag** *start-tag* **end-tag** *end-tag*
 - **no encap-tag-range**
 - **mac** *ieee-address*
 - **no mac**
 - **remote-id** *remote-id*
 - **no remote-id**
 - **service-name** *service-name*
 - **no service-name**
 - **username** *user-name* [**no-domain**]
 - **username** *user-name* **domain-only**
 - **no username**
 - **identification-strings** *option-number* [**create**]
 - **no identification-strings**
 - **ancp-string** *ancp-string*
 - **no ancp-string**

- **app-profile-string** *app-profile-string*
- **no app-profile-string**
- **inter-dest-id** *intermediate-destination-id*
- **no inter-dest-id**
- **sla-profile-string** *sla-profile-string*
- **no sla-profile-string**
- **sub-profile-string** *sub-profile-string*
- **no sub-profile-string**
- **subscriber-id** *sub-ident-string*
- **no subscriber-id**
- **ipv6-address** *ipv6-address*
- **no ipv6-address**
- **ipv6-delegated-prefix-pool** *pool-name*
- **no ipv6-delegated-prefix-pool**
- **ipv6-delegated-prefix-length** *bits*
- **no ipv6-delegated-prefix-length**
- **ipv6-prefix** *ipv6-prefix/prefix-length*
- **no ipv6-prefix**
- **ipv6-wan-address-pool** *pool-name*
- **no ipv6-wan-address-pool**
- **l2tp**
 - **group** *tunnel-group-name* [**service-id** *service-id*]
 - **no group**
- **msap-defaults**
 - **group-interface** *ip-int-name* [**prefix** {*port-id*}]
 - **group-interface** *ip-int-name* [**suffix** {*port-id*}]
 - **no group-interface**
 - **policy** *msap-policy-name*
 - **no policy**
 - **service** *service-id*
 - **no service**
- **options**
 - **custom-option** *option-number* **address** [*ip-address...*(up to 4 max)]
 - **custom-option** *option-number* **hex** *hex-string*
 - **custom-option** *option-number* **string** *ascii-string*
 - **no custom-option** *option-number*
 - **dns-server** **address** [*ip-address...*(upto 4 max)]
 - **no dns-server**
 - **netbios-name-server** **ip-address** [*ip-address...*(up to 4 max)]
 - **no netbios-name-server**
- **options6**
 - **dns-server** *ipv6-address* [*ipv6-address...*(upto 4 max)]
 - **no dns-server**
- **pado-delay** *deci-seconds*
- **no pado-delay**
- **password** {**ignore** | **chap** *string* | **pap** *string*} [**hash**{**hash2**}
- **no password**
- [**no**] **shutdown**
- **match-list** *ppp-match-type-1* [*ppp-match-type-2...*(up to 3 max)]
- **no match-list**
- [**no**] **shutdown**

Show Commands

```

show
  — router
    — dhcp
      — lease-state [sap sap-id]
      — servers
      — statistics [interface ip-int-name | ip-address]
      — summary
      — local-dhcp-server server-name
        — associations
        — declined-addresses ip-address[/mask] [detail]
        — declined-addresses pool pool-name
        — free-addresses ip-address[/mask]
        — free-addresses summary [subnet ip-address[/mask]]
        — free-addresses pool pool-name
        — leases ip-address[/mask] address-from-user-db [detail]
        — leases ip-address[/mask] dhcp-host dhcp-host-name [detail]
        — leases ip-address[/mask] ppp-host ppp-host-name [detail]
        — leases ip-address[/mask] [detail]
        — pool-ext-stats [pool-name]
        — server-stats
        — subnet-ext-stats ip-address[/mask]
        — subnet-ext-stats pool pool-name
        — subnet-stats ip-address[/mask]
        — subnet-stats pool pool-name
        — summary
      — servers
    — router
      — dhcp6
        — local-dhcp-server server-name
          — associations
          — interface-id-mapping
          — leases [ipv6-address/prefix-length] [type] [state] [detail]
          — pool-ext-stats [pool-name]
          — prefix-ext-stats ipv6-address/prefix-length
          — prefix-ext-stats pool pool-name
          — server-stats
          — summary
        — statistics
        — summary

show
  — service
    — id service-id
      — dhcp
        — lease-state [wholesaler service-id] [sap sap-id | sdp sdp-id:vc-id | interface interface-name | ip-address ip-address[/mask] | chaddr ieee-address | mac ieee-address | {[port port-id] [no-inter-dest-id | inter-dest-id inter-dest-id]}] [detail]
        — statistics [sap sap-id] | [sdp [sdp-id[:vc-id]] | interface ip-int-name]]
        — summary

show
  — service
    — id service-id

```

- **dhcp6**
 - **lease-state** [detail]
 - **lease-state** [detail] interface *interface-name*
 - **lease-state** [detail] **ipv6-address** *ipv6-prefix*[/*prefix-length*]
 - **lease-state** [detail] **mac** *ieee-address*
 - **statistics** [interface *ip-int-name*]
 - **summary**

Tools Commands

- tools**
- **subscriber-mgmt**
 - **remap-lease-state** **old-mac** *ieee-address* **mac** *ieee-address*
 - **remap-lease-state** **sap** *sap-id* [*mac ieee-address*]

Clear Commands

- clear**
- **router**
 - **dhcp**
 - **lease-state** [**interface** *ip-int-name* | *ip-addr* | **ip-address** *ip-address* | **mac** *ieee-address*]
 - **local-dhcp-server** *server-name*
 - **declined-addresses** *ip-address[/mask]*
 - **declined-addresses** **pool** *pool-name*
 - **leases** *ip-address[/mask]* [**offered**]
 - **pool-ext-stats** [*pool-name*]
 - **server-stats**
 - **subnet-ext-stats** *ip-address[/mask]*
 - **subnet-ext-stats** **pool** *pool-name*
 - **statistics** [*ip-int-name* | *ip-address*]
 - **dhcp6**
 - **local-dhcp-server** *server-name*
 - **leases** [*ipv6-address/prefix-length*] [*type*] [*state*]
 - **leases** **all** [*type*] [*state*]
 - **pool-ext-stats** [*pool-name*]
 - **prefix-ext-stats** *ipv6-address/prefix-length*
 - **prefix-ext-stats** **pool** *pool-name*
 - **server-stats**
 - **statistics**
- **service**
 - **id** *service-id*
 - **dhcp**
 - **lease-state** [**no-dhcp-release**]
 - **lease-state** [**port** *port-id*] [**inter-dest-id** *intermediate-destination-id*] [**no-dhcp-release**]
 - **lease-state** [**port** *port-id*] **no-inter-dest-id** [**no-dhcp-release**]
 - **lease-state** **ip-address** *ip-address* [**no-dhcp-release**]
 - **lease-state** **mac** *ieee-address* **no-dhcp-release**
 - **lease-state** **sap** *sap-id* [**no-dhcp-release**]
 - **lease-state** **sdp** *sdp-id:vc-id* [**no-dhcp-release**]
 - **statistics** [**sap** *sap-id* | **sdp** [*sdp-id[:vc-id]*] | **interface** *ip-int-name* | *ip-address*]
 - **dhcp6**
 - **lease-state** [**ip-address** *ipv6-address/prefix-length*] [**mac** *ieee-address*]

DHCP Debug Commands

```

debug
  — router
    — ip
      — [no] dhcp [ip-int-name]
          — detail-level {low | medium | high}
          — no detail-level
          — mode {dropped-only | ingr-and-dropped | egr-ingr-and-dropped}
          — no mode
      — dhcp6 [ip-int-name]
      — no dhcp6
      — [no] local-dhcp-server server-name [lease-address ip-address]
          — detail-level {low | medium | high}
          — no detail-level
          — mode {dropped-only | ingr-and-dropped | egr-ingr-and-dropped}
          — no mode
  
```

Tools Commands

```

tools
  — perform
    — subscriber-mgmt
      — edit-ppp-session sap sap-id ip ip-address [subscriber sub-ident-string] [sub-profile-string sub-profile-string] [sla-profile-string sla-profile-string] [inter-dest-id intermediate-destination-id] [ancp-string ancp-string] [app-profile-string app-profile-string] [user-name user-name]
      — eval-lease-state [svc-id service-id] [sap sap-id] [subscriber sub-ident-string] [ip ip-address]
      — local-user-db local-user-db-name
          — ppp
              — authentication pppoe-user-name [password password]
              — host-lookup [mac ieee-address] [remote-id remote-id] [user-name user-name] [circuit-id circuit-id | circuit-id-hex circuit-id-hex]
          — dhcp
              — host-lookup [mac ieee-address] [remote-id remote-id] [sap-id sap-id] [service-id service-id] [string vso-string] [system-id system-id] [option60 hex-string] [circuit-id circuit-id | circuit-id-hex circuit-id-hex]
  
```