

# PPP Command Reference

## Configuration Commands

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## PPPoE Policy Configuration Commands

```

config
— subscriber-mgmt
— ppp-policy ppp-policy-name [create]
— no ppp-policy ppp-policy-name
— description description-string
— no description
— [no] disable-cookies
— keepalive seconds [hold-up-multiplier multiplier]
— no keepalive
— max-sessions-per-mac sessions [allow-same-circuit-id-for-dhcp]
— no max-sessions-per-mac
— pado-delay deci-seconds
— no pado-delay
— ppp-authentication {pap | chap | pref-chap | pref-pap}
— no ppp-authentication
— ppp-mtu mtu-bytes
— no ppp-mtu
— ppp-options
— custom-option protocol option-number address ip-address
— custom-option protocol option-number hex hex-string
— custom-option protocol option-number string ascii-string
— no custom-option protocol option-number
— [no] reply-on-padt
— session-timeout timeout
— no session-timeout

```



- **dhcp**
  - **client-applications dhcp**
  - **client-applications pppoe**
  - **client-applications dhcp pppoe**
  - **no client-applications**
- **[no] pppoe**
  - **description** *description-string*
  - **no description**
  - **dhcp-client**
    - **[no] ccag-use-origin-sap**
  - **pap-chap-user-db** *local-user-db-name*
  - **no pap-chap-user-db**
  - **ppp-policy** *pppoe-policy-name*
  - **no ppp-policy**
  - **sap-session-limit** *sap-session-limit*
  - **no sap-session-limit**
  - **session-limit** *session-limit*
  - **no session-limit**
  - **[no] shutdown**

## PPPoE Local User Database Commands

- ```

config
  — subscriber-mgmt
    — local-user-db local-user-db-name [create]
    — no local-user-db local-user-db-name
    — 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
        — acct-policy acct-policy-name [duplicate acct-policy-name]
        — no acct-policy
        — address gi-address
        — address ip-address
        — address pool pool-name
        — no address
        — authentication-policy policy-name
        — no authentication-policy
        — host-identification
          — circuit-id string ascii-string
          — circuit-id hex hex-string
          — no circuit-id
          — 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
      — l2tp
        — group tunnel-group-name
        — no group
      — 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
  
```

## Triple Play Service Delivery Architecture

- **no custom-option** *option-number*
- **dns-server** [*ip-address...*(up to 4 max)]
- **no dns-server**
- **netbios-name-server** **ip-address** [*ip-address...*(up to 4 max)]
- **no netbios-name-server**
- **pado-delay** *deci-seconds*
- **no pado-delay**
- **password** {**ignore** | **chap** *string* | **pap** *string*}
- **no password**
- **retail-service-id** *service-id*
- **no retail-service-id**
- [**no**] **shutdown**
- **mask type** *pppoe-match-type* {[**prefix-string** *prefix-string* | **prefix-length** *prefix-length*] [**suffix-string** *suffix-string* | **suffix-length** *suffix-length*]}
- **no mask type** *pppoe-match-type*
- **match-list** *pppoe-match-type-1* [*pppoe-match-type-2...*(up to 3 max)]
- **no match-list**
- [**no**] **shutdown**

## MLPPP on LNS Commands

Refer to the OS Multi-Service Integrated Services Adapter Guide for MLPPP configuration and command information.

```

config
  — subscriber-mgmt
    — ppp-policy ppp-policy-name [create]
    — no ppp-policy ppp-policy-name
      — mlppp
        — [no] accept-mrru
        — [no] short-sequence-numbers
    — local-user-db local-user-db-name [create]
    — no local-user-db local-user-db-name
      — ppp
        — host host-name [create]
        — no host host-name
          — [no] access-loop
            — encap-offset [type encap-type]
            — no encap-offset
            — rate-down rate
            — no rate-down

config
  — router
    — l2tp
      — group tunnel-group-name [create]
      — no group tunnel-group-name
        — load-balance-method {session | tunnel}
        — no load-balance-method
      — mlppp
        — endpoint ip ip-address
        — endpoint mac ieee-address
        — endpoint system-ip
        — endpoint system-mac
        — no endpoint
        — [no] interleave
        — max-fragment-delay mili-seconds
        — no max-fragment-delay
        — max-link max-links
        — no max-link
        — reassemble-timeout {{100 | 1000} milliseconds}
        — no reassemble-timeout
      — tunnel tunnel-name [create]
      — no tunnel tunnel-name
        — load-balance-method {session | tunnel}
        — no load-balance-method
      — mlppp
        — admin-state {up | down}
        — no admin-state
        — endpoint ip ip-address
        — endpoint mac ieee-address
        — endpoint system-ip
        — endpoint system-mac
        — no endpoint

```

## Triple Play Service Delivery Architecture

```
config
  — service
    — vprn
      — l2tp
        — group
          — load-balance-method {session | tunnel}
          — no load-balance-method
          — mlppp
            — admin-state {up | down}
            — no admin-state
            — endpoint ip ip-address
            — endpoint mac ieee-address
            — endpoint system-ip
            — endpoint system-mac
            — no endpoint
            — interleave {always|never}
            — no interleave
            — max-fragment-delay mili-seconds
            — no max-fragment-delay
            — max-link max-links
            — no max-link
            — reassemble-timeout {{100 | 1000} milliseconds}
            — no reassemble-timeout
          — tunnel
            — load-balance-method {session | tunnel}
            — no load-balance-method
            — mlppp
              — admin-state {up | down}
              — no admin-state
              — endpoint ip ip-address
              — endpoint mac ieee-address
              — endpoint system-ip
              — endpoint system-mac
              — no endpoint
              — interleave {always|never}
              — no interleave
              — load-balance-method {session | tunnel}
              — no load-balance-method
              — max-fragment-delay mili-seconds
              — no max-fragment-delay
              — max-link max-links
              — no max-link
              — reassemble-timeout {{100 | 1000} milliseconds}
              — no reassemble-timeout
```

## Show Commands

- show
  - router
    - l2tp
      - **peer** *ip-address* [**udp-port** *port*]
      - **peer** *ip-address* statistics [**udp-port** *port*]
      - **peer** [**draining**] [**blacklisted**|**selectable**|**unreachable**]