

PPP Command Reference

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PPPoE Policy Configuration Commands

```

config
— subscriber-mgmt
  — ppp-policy ppp-policy-name [create]
  — no ppp-policy ppp-policy-name
    — default-pap-password password [hash|hash2]
    — no default-pap-password
    — default-user-name ppp-username
    — no default-user-name
    — description description-string
    — no description
    — [no] disable-cookies
    — [no] force-ppp-mtu-gt-1492
    — [no] ipcp-subnet-negotiation
    — keepalive seconds [hold-up-multiplier multiplier]
    — no keepalive
    — [no] lcp-ignore-magic-numbers
    — max-sessions-per-mac sessions [allow-same-circuit-id-for-dhcp]
    — no max-sessions-per-mac
    — pado-ac-name name
    — no pado-ac-name
    — pado-delay deci-seconds
    — no pado-delay
    — ppp-authentication {pap | chap | pref-chap | pref-pap}
    — no ppp-authentication
    — ppp-chap-challenge-length min minimum-length max maximum-length
    — no ppp-chap-challenge-length
    — [no] ppp-initial-delay
    — 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
    — re-establish-session padr

```

Configuration Commands

- **no re-establish-session**
- **[no] reject-disabled-ncp**
- **[no] reply-on-padt**
- **session-timeout** *timeout*
- **no session-timeout**
- **unique-sid-per-sap** [**per-msap**]
- **no unique-sid-per-sap**

PPPoE Service Commands

```

config
  — service
    — ies service-id [customer customer-id] [vpn vpn-id] [create]
    — no ies service-id
      — [no] subscriber-interface ip-int-name
        — [no] group-interface ip-int-name
          — dhcp
            — client-applications {[dhcp] [ppp]}
            — no client-applications
            — description description-string
            — no description
            — lease-populate [nbt-of-entries]
            — no lease-populate
            — [no] option
            — [no] vendor-specific-option
              — [no] client-mac-address
              — [no] sap-id
              — [no] service-id
              — [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] option
            — [no] pppoe
              — description description-string
              — no description
              — dhcp-client
                — [no] ccag-use-origin-sap
                — include-option string text
                — no include-option
              — sap-session-limit sap-session-limit
              — no sap-session-limit
              — session-limit session-limit
              — no session-limit
              — [no] shutdown
config
  — service
    — vprn service-id [customer customer-id] [create]
    — no vprn service-id
      — subscriber-interface ip-int-name [fwd-service service-id fwd-subscriber-interface
ip-int-name] [create]
      — no subscriber-interface ip-int-name
        — [no] group-interface ip-int-name
          — 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**
 - **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

```

- **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

```

```

— 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

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]
```

