

## show ppp interface

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**Syntax** show ppp interface [ *interfaceType* *interfaceSpecifier* ]  
[ full | { *dataRestriction* } \* [ *protocolRestriction* ] \* ] [ state *stateRestriction* ]  
[ delta ] [ *filter* ]

For multilinked PPP interfaces, the following options are additionally available:

show ppp interface mlppp [ *interfaceSpecifier* ] members [ *filter* ]

show ppp interface mlppp links [ *filter* ]

**Release Information** Command introduced before JUNOS Release 7.1.0.  
**eap** keyword added in JUNOS Release 7.3.0.

**Description** Displays information about the PPP interface type that you specify.

- Options**
- *interfaceType*—Interface type; see Interface Types and Specifiers
  - *interfaceSpecifier*—Particular interface; format varies according to interface type; see Interface Types and Specifiers
  - full—Displays configuration, status, and statistics information for the interface, including information specific to LCP, IPCP, OSINLCP, MPLSCP, PAP, and CHAP; equivalent to specifying **config status statistics**
  - *dataRestriction*—One or more of the following keywords; you can repeat a keyword without effect
    - config—Displays information about the PPP interface configuration
    - status—Displays information about the PPP interface operational status
    - statistics—Displays information about the PPP interface statistics
  - \*—Indicates that one or more parameters can be repeated multiple times in a list in the command line
  - *protocolRestriction*—One or more of the following keywords
    - eap—Displays EAP-specific information
    - lcp—Displays LCP-specific information
    - ip—Displays IPCP-specific information
    - ipv6—Displays IPv6CP-specific information
    - osi—Displays OSINLCP-specific information
    - mpls—Displays MPLSCP-specific information
    - pap—Displays PAP-specific information
    - chap—Displays CHAP-specific information

- *stateRestriction*—Information is displayed only for interfaces in one of the following specified states:
  - open—Interface is administratively enabled, meaning that the **no ppp shutdown** command is operational
  - closed—Interface is administratively disabled, meaning that the **ppp shutdown** command is operational
  - up—Interface on which the LCP has been negotiated
  - down—Interface on which the LCP has not been negotiated, the negotiations have failed, or the connection has been ended
  - lower-layer-down—Interface that is not up and is waiting for the lower layer to come up to initiate negotiations for LCP
  - not-present—Interface that is not present because the hardware is not available. When the interface is in this state, no detailed information is available.
  - passive—Interface with the operational status passive
  - tunneled—Tunneled PPP interfaces
  - no-ip—Interface on which IPCP is not configured
  - ip-open—Interface on which IPCP is administratively enabled, meaning that the **no ppp shutdown ip** command is operational
  - ip-closed—Interface on which IPCP is administratively disabled, meaning that the **ppp shutdown ip** command is operational
  - ip-up—Interface on which the IPCP has been negotiated
  - ip-down—Interface on which the IPCP has not been negotiated, the negotiations failed, or the connection has been ended
  - no-ipv6—Interface on which IPv6CP is not configured
  - ipv6-open—Interface on which IPv6CP is administratively enabled, meaning that the **no ppp shutdown ipv6** command is operational
  - ipv6-closed—Interface on which IPv6CP is administratively disabled, meaning that the **ppp shutdown ipv6** command is operational
  - ipv6-up—Interface on which the IPv6CP has been negotiated
  - ipv6-down—Interface on which the IPv6CP has not been negotiated, the negotiations failed, or the connection has been ended
  - no-osi—Interface on which OSINLCP is not configured
  - osi-open—Interface on which OSINLCP is administratively enabled, meaning that the **no ppp shutdown osi** command is operational
  - osi-closed—Interface on which OSINLCP is administratively disabled, meaning that the **ppp shutdown osi** command is operational

- `osi-up`—Interface on which the OSINLCP has been negotiated
- `osi-down`—Interface on which the OSINLCP has not been negotiated, the negotiations failed, or the connection has been ended
- `no-mpls`—Interface on which MPLSCP is not configured
- `mpls-open`—Interface on which MPLSCP is administratively enabled, meaning that the **`no ppp shutdown mpls`** command is operational
- `mpls-closed`—Interface on which MPLSCP is administratively disabled, meaning that the **`ppp shutdown mpls`** command is operational
- `mpls-up`—Interface on which the MPLSCP has been negotiated
- `mpls-down`—Interface on which the MPLSCP has not been negotiated, the negotiations failed, or the connection has been ended
- `delta`—Displays baselined statistics
- `filter`—See Filtering show Commands
- `members`—Lists all MLPPP member links, or only those for a specified MLPPP bundle
- `links`—Lists all MLPPP encapsulated links, regardless of whether the links are members of an MLPPP bundle

**Mode** Privileged Exec, User Exec

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