

show interfaces demux0 (Demux Interfaces)

Syntax	show interfaces demux0. <i>logical-interface-number</i> <brief detail extensive terse> <descriptions> <media> <snmp-index <i>snmp-index</i> > <statistics>
Release Information	Command introduced in JUNOS Release 9.0.
Description	(MX Series and M Series routers only) Display status information about the specified demux interface.
Options	none—Display standard information about the specified demux interface. brief detail extensive terse—(Optional) Display the specified level of output. descriptions—(Optional) Display interface description strings. media—(Optional) Display media-specific information about network interfaces. snmp-index <i>snmp-index</i> —(Optional) Display information for the specified SNMP index of the interface. statistics—(Optional) Display static interface statistics.
Required Privilege Level	view
List of Sample Output	show interfaces extensive (Demux) on page 6
Output Fields	Table 1 lists the output fields for the show interfaces (demux interfaces) command. Output fields are listed in the approximate order in which they appear.

Table 1: Demux show interfaces Output Fields

Field Name	Field Description	Level of Output
Physical Interface		
Physical interface	Name of the physical interface.	brief detail extensive none
Interface index	Index number of the physical interface, which reflects its initialization sequence.	brief detail extensive none
Enabled	State of the interface. Possible values are described in [Unresolved xref] .	brief detail extensive none
Physical link	Status of the physical link (Up or Down).	detail extensive none
Admin	Administrative state of the interface (Up or Down).	terse
Interface index	Index number of the physical interface, which reflects its initialization sequence.	detail extensive none

Table 1: Demux show interfaces Output Fields (continued)

Field Name	Field Description	Level of Output
Link	Status of the physical link (Up or Down).	terse
Proto	Protocol family configured on the interface.	terse
SNMP ifIndex	SNMP index number for the physical interface.	detail extensive none
Generation	Unique number for use by Juniper Networks technical support only.	detail extensive
Type	Type of interface. Software-Pseudo indicates a standard software interface with no associated hardware device.	brief detail extensive none
Link-level type	Encapsulation being used on the physical interface.	brief detail extensive
MTU	Maximum transmission unit size on the physical interface.	brief detail extensive
Clocking	Reference clock source: Internal (1) or External (2).	brief detail extensive
Speed	Speed at which the interface is running.	brief detail extensive
Device flags	Information about the physical device. Possible values are described in [Unresolved xref] .	brief detail extensive none
Interface flags	Information about the interface. Possible values are described in [Unresolved xref] .	brief detail extensive none
Link type	Data transmission type.	detail extensive none
Link flags	Information about the link. Possible values are described in [Unresolved xref] .	detail extensive none
Physical info	Information about the physical interface.	detail extensive
Hold-times	Current interface hold-time up and hold-time down, in milliseconds.	detail extensive
Current address	Configured MAC address.	detail extensive
Hardware address	Hardware MAC address.	detail extensive
Alternate link address	Backup address of the link.	detail extensive
Last flapped	Date, time, and how long ago the interface went from down to up. The format is Last flapped: year-month-day hour:minute:second:timezone (hour:minute:second ago) . For example, Last flapped: 2002-04-26 10:52:40 PDT (04:33:20 ago) .	detail extensive none
Statistics last cleared	Time when the statistics for the interface were last set to zero.	detail extensive

Table 1: Demux show interfaces Output Fields (continued)

Field Name	Field Description	Level of Output
Traffic statistics	<p>Number and rate of bytes and packets received and transmitted on the physical interface.</p> <ul style="list-style-type: none"> ■ Input bytes—Number of bytes received on the interface. ■ Output bytes—Number of bytes transmitted on the interface. ■ Input packets—Number of packets received on the interface. ■ Output packets—Number of packets transmitted on the interface. ■ IPv6 transit statistics—Number of IPv6 transit bytes and packets received and transmitted on the physical interface if IPv6 statistics tracking is enabled. <ul style="list-style-type: none"> ■ Input bytes—Number of bytes received on the interface ■ Output bytes—Number of bytes transmitted on the interface. ■ Input packets—Number of packets received on the interface. ■ Output packets—Number of packets transmitted on the interface. 	detail extensive
Input errors	<p>Input errors on the interface. The following paragraphs explain the counters whose meaning might not be obvious:</p> <ul style="list-style-type: none"> ■ Errors—Sum of the incoming frame aborts and FCS errors. ■ Drops—Number of packets dropped by the input queue of the I/O Manager ASIC. If the interface is saturated, this number increments once for every packet that is dropped by the ASIC's RED mechanism. ■ Framing errors—Number of packets received with an invalid frame checksum (FCS). ■ Runts—Number of frames received that are smaller than the runt threshold. ■ Giants—Number of frames received that are larger than the giant packet threshold. ■ Policed discards—Number of frames that the incoming packet match code discarded because they were not recognized or not of interest. Usually, this field reports protocols that the JUNOS Software does not handle. ■ Resource errors—Sum of transmit drops. 	extensive
Input Rate	Input rate in bits per second (bps) and packets per second (pps).	none
Output errors	<p>Output errors on the interface. The following paragraphs explain the counters whose meaning might not be obvious:</p> <ul style="list-style-type: none"> ■ Carrier transitions—Number of times the interface has gone from down to up. This number does not normally increment quickly, increasing only when the cable is unplugged, the far-end system is powered down and then up, or another problem occurs. If the number of carrier transitions increments quickly (perhaps once every 10 seconds), the cable, the far-end system, or the PIC or PIM is malfunctioning. ■ Errors—Sum of the outgoing frame aborts and FCS errors. ■ Drops—Number of packets dropped by the output queue of the I/O Manager ASIC. If the interface is saturated, this number increments once for every packet that is dropped by the ASIC's RED mechanism. ■ MTU errors—Number of packets whose size exceeded the MTU of the interface. ■ Resource errors—Sum of transmit drops. 	extensive

Table 1: Demux show interfaces Output Fields (continued)

Field Name	Field Description	Level of Output
Output Rate	Output rate in bps and pps.	none
Logical Interface		
Logical interface	Name of the logical interface.	brief detail extensive none
Index	Index number of the logical interface, which reflects its initialization sequence.	detail extensive none
SNMP ifIndex	SNMP interface index number for the logical interface.	detail extensive none
Generation	Unique number for use by Juniper Networks technical support only.	detail
Flags	Information about the logical interface. Possible values are described in [Unresolved xref] .	brief detail extensive none
Encapsulation	Encapsulation on the logical interface.	brief extensive none
Demux	Specific IP demultiplexing (demux) values: <ul style="list-style-type: none"> ■ Underlying interface—The underlying interface that the demux interface uses. ■ Index—Index number of the logical interface. ■ Family—Protocol family configured on the logical interface. ■ Source prefixes, total—Total number of source prefixes for the underlying interface. ■ Destination prefixes, total—Total number of destination prefixes for the underlying interface. ■ Prefix—inet family prefix. 	detail extensive none
<i>protocol-family</i>	Protocol family configured on the logical interface.	brief
Traffic statistics	Number and rate of bytes and packets received and transmitted on the specified interface set. <ul style="list-style-type: none"> ■ Input bytes, Output bytes—Number of bytes received and transmitted on the interface set. ■ Input packets, Output packets—Number of packets received and transmitted on the interface set. ■ IPv6 transit statistics—Number of IPv6 transit bytes and packets received and transmitted on the logical interface if IPv6 statistics tracking is enabled. <ul style="list-style-type: none"> ■ Input bytes—Number of bytes received on the interface. ■ Output bytes—Number of bytes transmitted on the interface. ■ Input packets—Number of packets received on the interface. ■ Output packets—Number of packets transmitted on the interface. 	detail extensive

Table 1: Demux show interfaces Output Fields (continued)

Field Name	Field Description	Level of Output
Local statistics	Number of transit bytes and packets received and transmitted on the local interface. <ul style="list-style-type: none"> ■ Input bytes—Number of bytes received on the interface. ■ Output bytes—Number of bytes transmitted on the interface. ■ Input packets—Number of packets received on the interface. ■ Output packets—Number of packets transmitted on the interface. 	detail extensive
Transit statistics	Number and rate of bytes and packets transiting the switch. <ul style="list-style-type: none"> ■ Input bytes—Number of bytes received on the interface. ■ Output bytes—Number of bytes transmitted on the interface. ■ Input packets—Number of packets received on the interface. ■ Output packets—Number of packets transmitted on the interface. 	detail extensive
IPv6 Transit statistics	Number of IPv6 transit bytes and packets received and transmitted on the logical interface if IPv6 statistics tracking is enabled. <ul style="list-style-type: none"> ■ Input bytes—Number of bytes received on the interface. ■ Output bytes—Number of bytes transmitted on the interface. ■ Input packets—Number of packets received on the interface. ■ Output packets—Number of packets transmitted on the interface. 	detail extensive
Input packets	Number of packets received on the interface.	none
Output packets	Number of packets transmitted on the interface.	none
Protocol	Protocol family. Possible values are described in [Unresolved xref] .	detail extensive none
MTU	Maximum transmission unit size on the logical interface.	detail extensive none
Generation	Unique number for use by Juniper Networks technical support only.	detail extensive
Route table	Route table in which the logical interface address is located. For example, 0 refers to the routing table inet.0.	detail extensive
Flags	Information about protocol family flags. Possible values are described in [Unresolved xref] .	detail extensive none
Mac-Validate Failures	Number of MAC address validation failures for packets and bytes. This field is displayed when MAC address validation is enabled for the logical interface.	detail extensive none
Addresses, Flags	Information about the address flags. Possible values are described in [Unresolved xref] .	detail extensive none
Destination	IP address of the remote side of the connection.	detail extensive statistics none
Local	IP address of the logical interface.	detail extensive terse none
Remote	IP address of the remote interface.	terse

Table 1: Demux show interfaces Output Fields (continued)

Field Name	Field Description	Level of Output
Broadcast	Broadcast address of the logical interlace.	detail extensive none
Generation	Unique number for use by Juniper Networks technical support only.	detail extensive

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show interfaces      user@host> show interfaces demux0
extensive (Demux)  Physical interface: demux0, Enabled, Physical link is Up
                    Interface index: 128, SNMP ifIndex: 79, Generation: 129
                    Type: Software-Pseudo, Link-level type: Unspecified, MTU: 9192, Clocking: 1,
                    Speed: Unspecified
                    Device flags   : Present Running
                    Interface flags: Point-To-Point SNMP-Traps
                    Link type      : Full-Duplex
                    Link flags     : None
                    Physical info  : Unspecified
                    Hold-times     : Up 0 ms, Down 0 ms
                    Current address: Unspecified, Hardware address: Unspecified
                    Alternate link address: Unspecified
                    Last flapped   : Never
                    Statistics last cleared: Never
                    Traffic statistics:
                    Input bytes   :          0          0 bps
                    Output bytes  :          0          0 bps
                    Input packets :          0          0 pps
                    Output packets:          0          0 pps
                    IPv6 transit statistics:
                    Input bytes   :          0
                    Output bytes  :          0
                    Input packets :          0
                    Output packets:          0
                    Input errors:
                    Errors: 0, Drops: 0, Framing errors: 0, Runts: 0, Giants: 0,
                    Policed discards: 0, Resource errors: 0
                    Output errors:
                    Carrier transitions: 0, Errors: 0, Drops: 0, MTU errors: 0,
                    Resource errors: 0

                    Logical interface demux0.0 (Index 87) (SNMP ifIndex 84) (Generation 312)
                    Flags: SNMP-Traps 0x4000 Encapsulation: ENET2
                    Demux:
                    Underlying interface: ge-2/0/1.0 (Index 74)
                    Family Inet Source prefixes, total 1
                    Prefix: 1.1.1/24
                    Traffic statistics:
                    Input bytes   :          0
                    Output bytes  :        1554
                    Input packets :          0
                    Output packets:         37
                    IPv6 transit statistics:
                    Input bytes   :          0
                    Output bytes  :          0
                    Input packets :          0
                    Output packets:          0
                    Local statistics:
                    Input bytes   :          0

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Output bytes :          1554
Input  packets:          0
Output packets:         37
Transit statistics:
Input  bytes :          0          0 bps
Output bytes :          0          0 bps
Input  packets:         0          0 pps
Output packets:         0          0 pps
IPv6 transit statistics:
Input  bytes :          0
Output bytes :          0
Input  packets:         0
Output packets:         0
Protocol inet, MTU: 1500, Generation: 395, Route table: 0
Flags: Is-Primary, Mac-Validate-Strict
Mac-Validate Failures: Packets: 0, Bytes: 0
Addresses, Flags: Is-Preferred Is-Primary
Destination: 11.1.1/24, Local: 11.1.1.1, Broadcast: 11.1.1.255,
Generation: 434

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