show snmp rmon history

Syntax show snmp rmon history
<history-index>
<sample-index>

Release Information Command introduced in JUNOS Release 9.0 for EX-series switches.

Description Display the contents of the RMON history group.

Options none—Display all the entries in the RMON history group.

history-index—(Optional) Display the contents of the specified entry in the RMON history group.

sample-index—(Optional) Display the statistics collected for the specified sample within the specified entry in the RMON history group.

Required Privilege Level view

Related Topics
- clear snmp rmon history

List of Sample Output
show snmp rmon history 1 on page 2
show snmp rmon history 1 sample 15 on page 3

Output Fields Table 1 on page 1 lists the output fields for the show smp rmon history command. Output fields are listed in the approximate order in which they appear.

Table 1: show smp rmon history Output Fields

Field Name	Field Description
History Index	Identifies this RMON history entry within the RMON history group.
Owner	The entity that configured this entry. Range is 0 to 32 alphanumeric characters.
Status	The status of the RMON history entry.
Interface or Data Source	The ifndex object that identifies the interface that is being monitored.
Interval	The interval (in seconds) configured for this RMON history entry.
Buckets Requested	The requested number of buckets (intervals) configured for this RMON history entry.
Buckets Granted	The number of buckets granted for this RMON history entry.

Table 1: show smp rmon history Output Fields *(continued)*

Field Name	Field Description
Sample Index	The sample statistics taken at the specified interval. ■ Drop Events—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. ■ Octets—Total number of octets and packets. For Gigabit Ethernet IQ PICs, the received octets count varies by interface type. ■ Packets—Total number of packets. ■ Broadcast Packets—Number of broadcast packets. ■ Multicast Packets—Number of multicast packets. ■ CRC errors—Total number of packets received that had a length (excluding framing bits, but including FCS octets) of between 64 and 1518 octets, inclusive, and had either a bad FCS with an integral number of octets (FCS error) or a bad FCS with a nonintegral number of octets (alignment error). ■ Undersize Pkts—Number of packets received during this sampling interval that were less than 64 octets long (excluding framing bits but including FCS octets) and were otherwise well formed. ■ Oversize Pkts—Number of packets received during the sampling interval that were longer than 1518 octets (excluding framing bits, but including FCS octets) but were otherwise well formed. ■ Fragments—Total number of packets that were less than 64 octets in length (excluding framing bits, but including FCS octets), and had either an FCS error or an alignment error. Fragment frames normally increment because both runts (which are normal occurrences caused by collisions) and noise hits are counted. ■ Jabbers—Number of frames that were longer than 1518 octets (excluding framing bits, but including FCS octets), and had either an FCS error or an alignment error. This definition of jabber is different from the definition in IEEE-802.3 section 8.2.1.5 (10BASE5) and section 10.3.1.4 (10BASE2). These documents define jabber as the condition in which any packet exceeds 20 ms. The allowed range to detect jabber is from 20 ms to 150 ms. ■ Collisions—Number of Ethernet collisions. The Gigabit Ethernet PIC supports only full-duplex operation, so for Gigabit Ethernet PICs, this number should always remain 0. If it is nonzero, there is a software bug. ■ Utilization(%)—The best estimate of the mean physical layer network utilization on this interface during this sampling interval, in hundredths of a percent.

show snmp rmon history 1

```
user@host> show snmp rmon history 1
 History Index 1:
 Interface                              171
 Requested Buckets                      50
 Interval                               10

Sample Index 1: Interval Start: Tue Feb 12 04:12:32 2008
    Drop Events         0
    Octets            486
    Packets             2
    Broadcast Packet    0
    Multicast Packets   2
```

```
    CRC errors          0
    Undersize Pkts      0
    Oversize Pkts       0
    Fragments           0
    Jabbers             0
    Collisions          0
    Utilization(%)      0

Sample Index 2: Interval Start: Tue Feb 12 04:12:42 2008
    Drop Events         0
    Octets            486
    Packets             2
    Broadcast Packet    0
    Multicast Packets   2
    CRC errors          0
    Undersize Pkts      0
    Oversize Pkts       0
    Fragments           0
    Jabbers             0
    Collisions          0
    Utilization(%)      0

Sample Index 3: Interval Start: Tue Feb 12 04:12:52 2008
    Drop Events         0
    Octets            486
    Packets             2
    Broadcast Packet    0
    Multicast Packets   2
    CRC errors          0
    Undersize Pkts      0
    Oversize Pkts       0
    Fragments           0
    Jabbers             0
    Collisions          0
    Utilization(%)      0
```

show snmp rmon history 1 sample 15

```
user@host> show snmp rmon history 1 sample 15
 Index 1
Owner    = monitor
Status    = valid
Data Source  = ifIndex.17
Interval   = 1800
Buckets Requested = 50
Buckets Granted = 50


Sample Index 44: Interval Start: Thu Jan  1 00:08:35 1970
Drop Events   = 0
Octetes   = 0
Packets   = 0
Broadcast Pkts  = 0
Multicast Pkts  = 0
CRC Errors  = 0
Undersize Pkts  = 0
Oversize Pkts  = 0
Fragments  = 0
Jabbers   = 0
Collisions  = 0
Utilization (%)  = 0
```