The relative OID when use command “show packet ports” on DES-3028/52

Show in multicast packet

```
snmpwalk -c private -v 2c 10.90.90.90 1.3.6.1.2.1.31.1.1.1.2
```

Show in broadcast packet

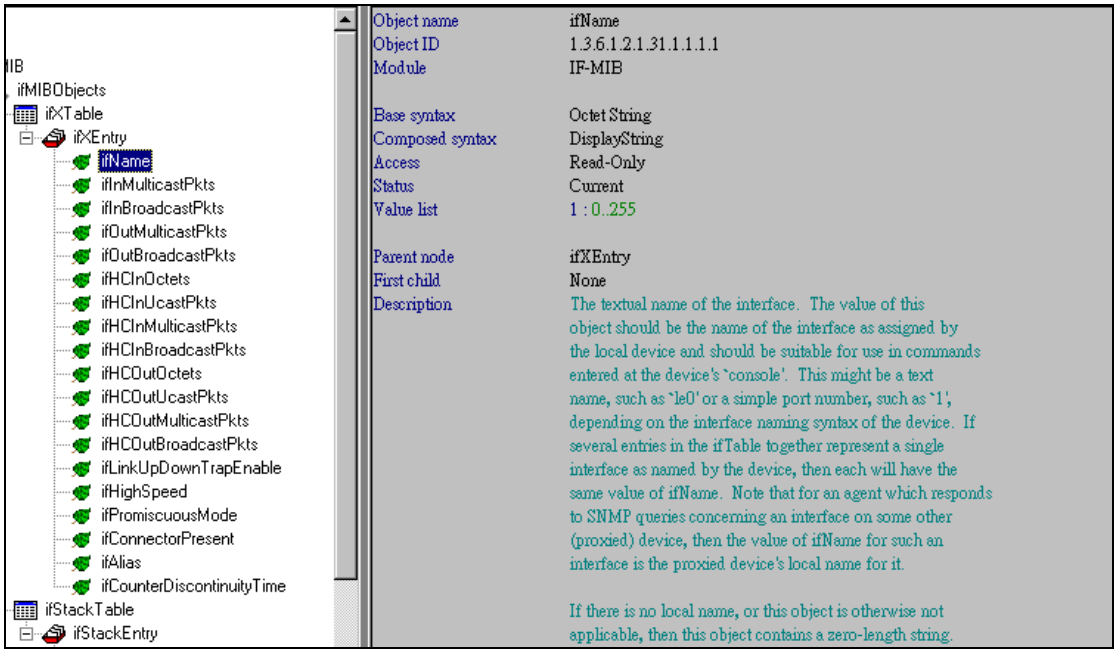
```
snmpwalk -c private -v 2c 10.90.90.90 1.3.6.1.2.1.31.1.1.1.3
```

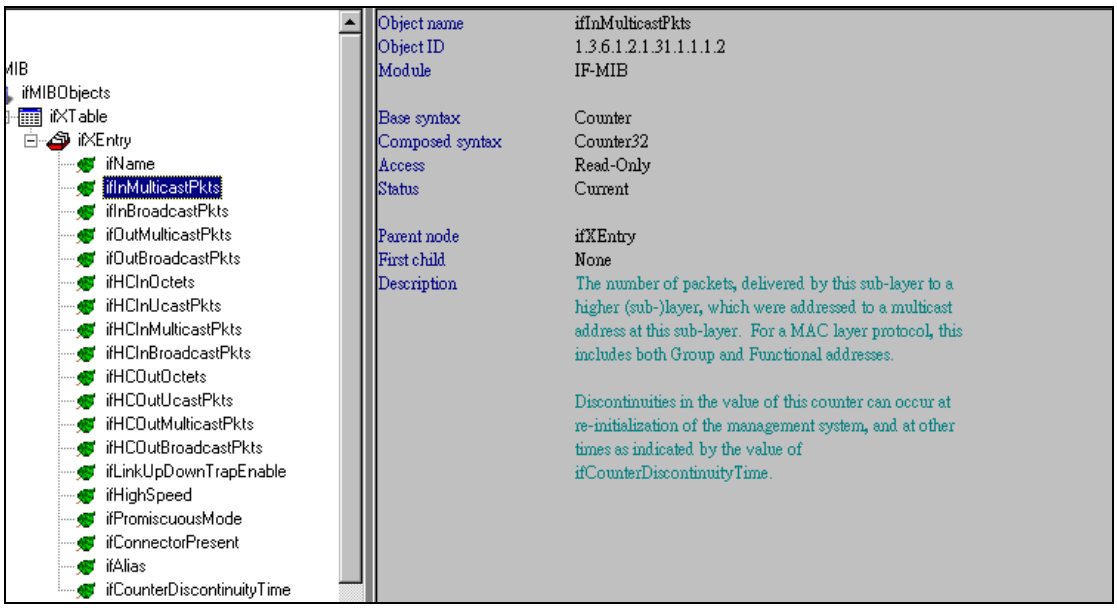
Show out multicast packet

```
snmpwalk -c private -v 2c 10.90.90.90 1.3.6.1.2.1.31.1.1.1.4
```

Show out broadcast packet

```
snmpwalk -c private -v 2c 10.90.90.90 1.3.6.1.2.1.31.1.1.1.5
```

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ifXTable
ifXEntry
ifName
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ifInBroadcastPkts
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ifOutBroadcastPkts
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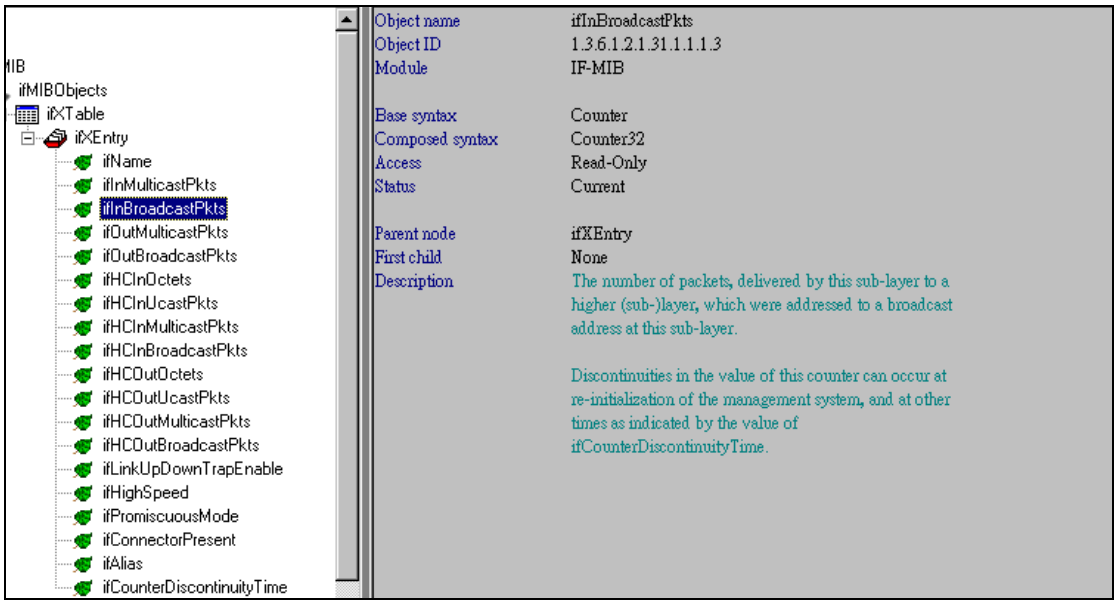
ifHCInUcastPkts
ifHCInMulticastPkts
ifHCInBroadcastPkts
ifHCOutOctets
ifHCOutUcastPkts
ifHCOutMulticastPkts
ifHCOutBroadcastPkts
ifLinkUpDownTrapEnable
ifHighSpeed
ifPromiscuousMode
ifConnectorPresent
ifAlias
ifCounterDiscontinuityTime
Object name ifInMulticastPkts
Object ID 1.3.6.1.2.1.31.1.1.1.2
Module IF-MIB
Base syntax Counter
Composed syntax Counter32
Access Read-Only
Status Current
Parent node ifXEntry
First child None
Description The number of packets, delivered by this sub-layer to a higher (sub-)layer, which were addressed to a multicast address at this sub-layer. For a MAC layer protocol, this includes both Group and Functional addresses.
Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of ifCounterDiscontinuityTime.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ifXEntry
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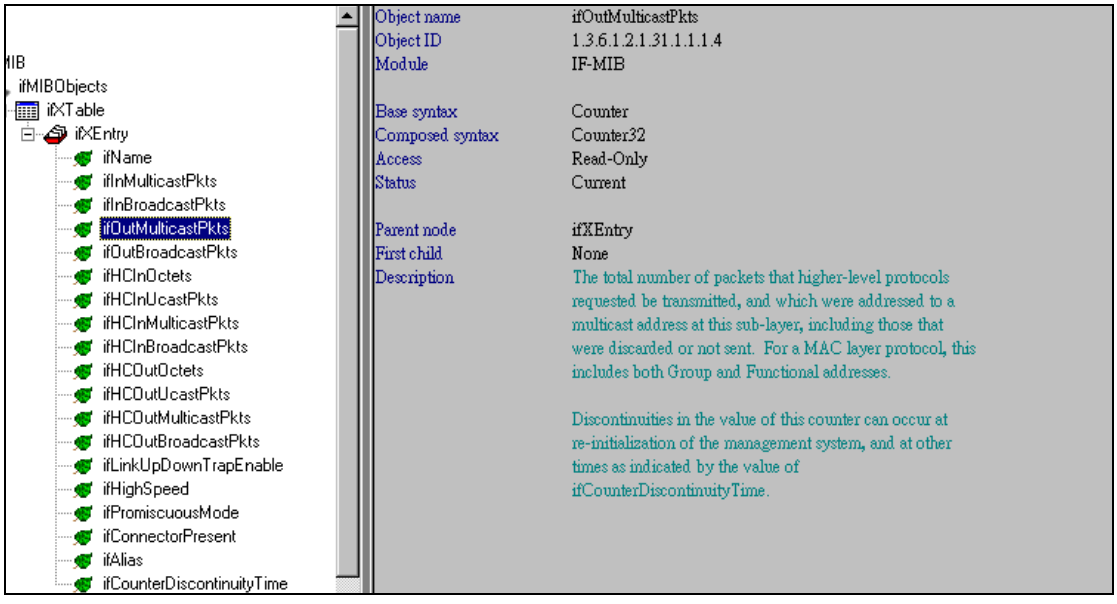
ifHCInBroadcastPkts
ifHCOutOctets
ifHCOutUcastPkts
ifHCOutMulticastPkts
ifHCOutBroadcastPkts
ifLinkUpDownTrapEnable
ifHighSpeed
ifPromiscuousMode
ifConnectorPresent
ifAlias
ifCounterDiscontinuityTime
Object name ifInBroadcastPkts
Object ID 1.3.6.1.2.1.31.1.1.1.3
Module IF-MIB
Base syntax Counter
Composed syntax Counter32
Access Read-Only
Status Current
Parent node ifXEntry
First child None
Description The number of packets, delivered by this sub-layer to a higher (sub-)layer, which were addressed to a broadcast address at this sub-layer.
Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of ifCounterDiscontinuityTime.


MIB
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ifXEntry
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ifInMulticastPkts
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ifOutMulticastPkts
ifOutBroadcastPkts
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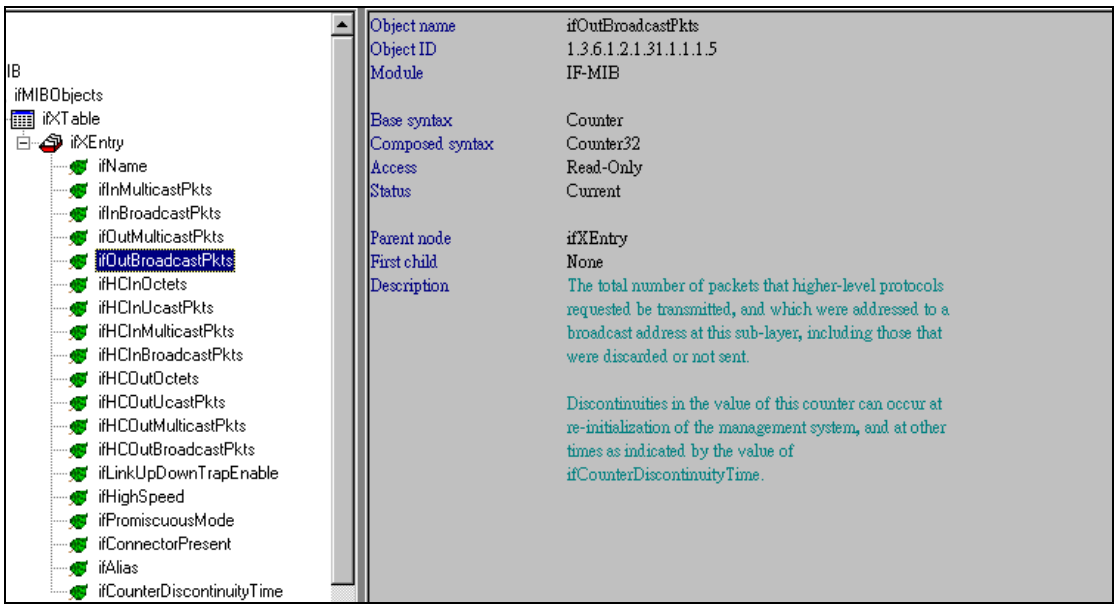
ifHCInBroadcastPkts
ifHCOutOctets
ifHCOutUcastPkts
ifHCOutMulticastPkts
ifHCOutBroadcastPkts
ifLinkUpDownTrapEnable
ifHighSpeed
ifPromiscuousMode
ifConnectorPresent
ifAlias
ifCounterDiscontinuityTime
Object name ifOutMulticastPkts
Object ID 1.3.6.1.2.1.31.1.1.1.4
Module IF-MIB
Base syntax Counter
Composed syntax Counter32
Access Read-Only
Status Current
Parent node ifXEntry
First child None
Description The total number of packets that higher-level protocols requested be transmitted, and which were addressed to a multicast address at this sub-layer, including those that were discarded or not sent. For a MAC layer protocol, this includes both Group and Functional addresses.
Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of ifCounterDiscontinuityTime.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ifName
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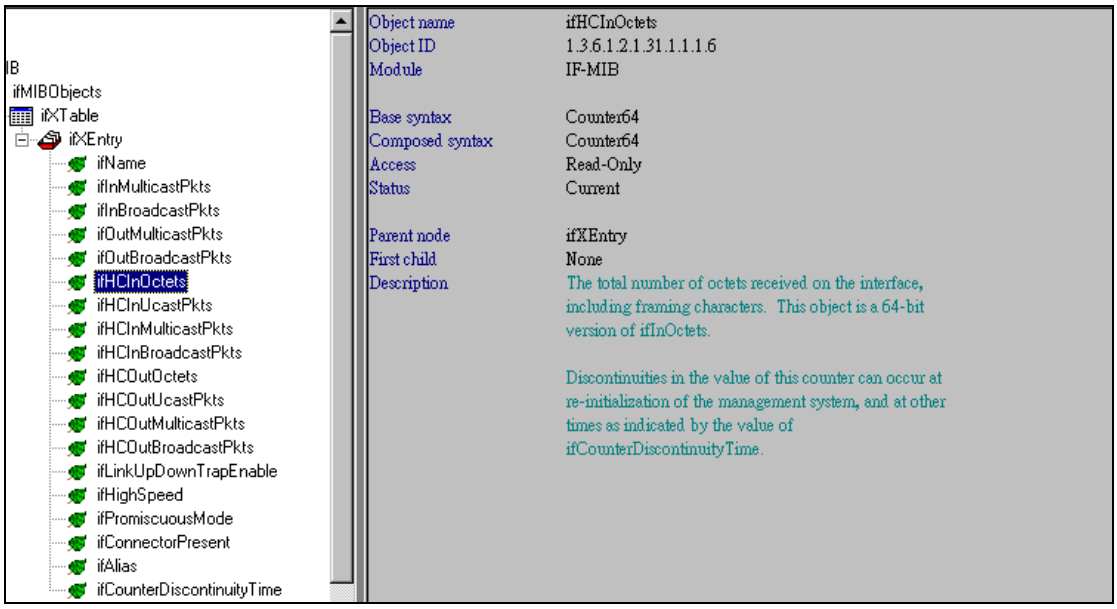
ifHCInBroadcastPkts
ifHCOutOctets
ifHCOutUcastPkts
ifHCOutMulticastPkts
ifHCOutBroadcastPkts
ifLinkUpDownTrapEnable
ifHighSpeed
ifPromiscuousMode
ifConnectorPresent
ifAlias
ifCounterDiscontinuityTime
Object name ifOutBroadcastPkts
Object ID 1.3.6.1.2.1.31.1.1.1.5
Module IF-MIB
Base syntax Counter
Composed syntax Counter32
Access Read-Only
Status Current
Parent node ifXEntry
First child None
Description The total number of packets that higher-level protocols requested be transmitted, and which were addressed to a broadcast address at this sub-layer, including those that were discarded or not sent.
Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of ifCounterDiscontinuityTime.


IB
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ifXEntry
ifName
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ifOutMulticastPkts
ifOutBroadcastPkts
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ifHCInUcastPkts
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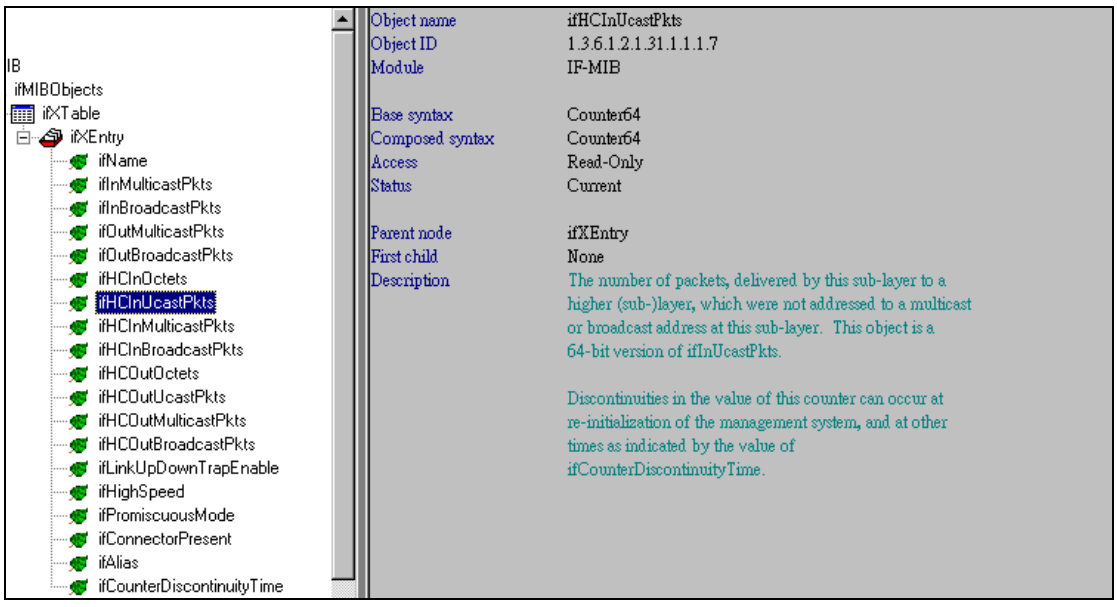
ifHCInBroadcastPkts
ifHCOutOctets
ifHCOutUcastPkts
ifHCOutMulticastPkts
ifHCOutBroadcastPkts
ifLinkUpDownTrapEnable
ifHighSpeed
ifPromiscuousMode
ifConnectorPresent
ifAlias
ifCounterDiscontinuityTime
Object name ifHCInOctets
Object ID 1.3.6.1.2.1.31.1.1.1.6
Module IF-MIB
Base syntax Counter64
Composed syntax Counter64
Access Read-Only
Status Current
Parent node ifXEntry
First child None
Description The total number of octets received on the interface, including framing characters. This object is a 64-bit version of ifInOctets.
Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of ifCounterDiscontinuityTime.


IB
ifMIBObjects
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ifXEntry
ifName
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ifOutMulticastPkts
ifOutBroadcastPkts
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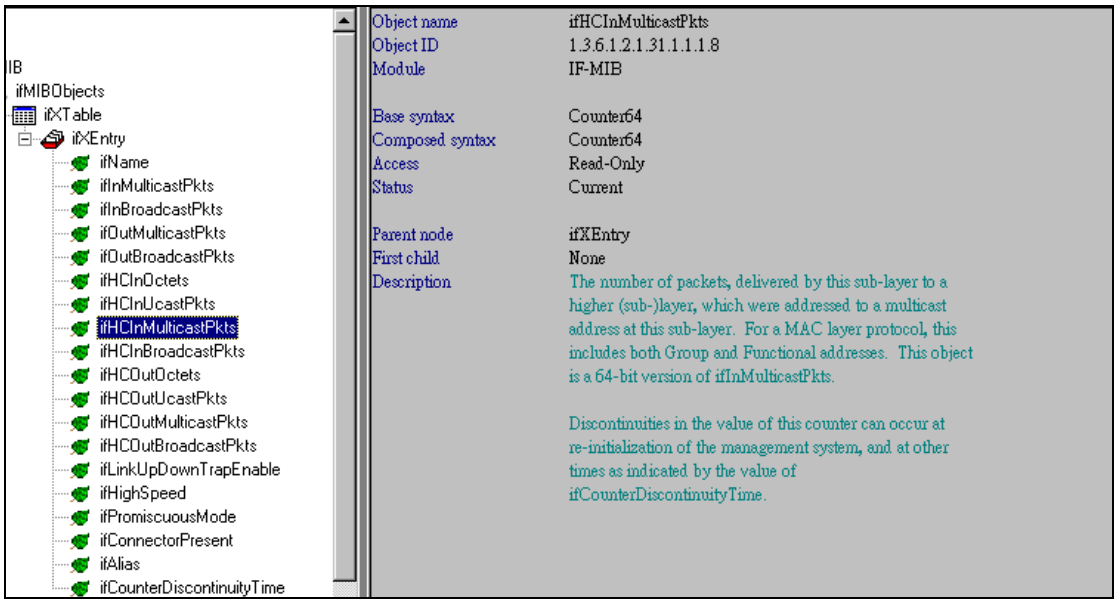
ifHCInUcastPkts
ifHCInMulticastPkts
ifHCInBroadcastPkts
ifHCOutOctets
ifHCOutUcastPkts
ifHCOutMulticastPkts
ifHCOutBroadcastPkts
ifLinkUpDownTrapEnable
ifHighSpeed
ifPromiscuousMode
ifConnectorPresent
ifAlias
ifCounterDiscontinuityTime
Object name ifHCInUcastPkts
Object ID 1.3.6.1.2.1.31.1.1.1.7
Module IF-MIB
Base syntax Counter64
Composed syntax Counter64
Access Read-Only
Status Current
Parent node ifXEntry
First child None
Description The number of packets, delivered by this sub-layer to a higher (sub-)layer, which were not addressed to a multicast or broadcast address at this sub-layer. This object is a 64-bit version of ifInUcastPkts.
Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of ifCounterDiscontinuityTime.


IB
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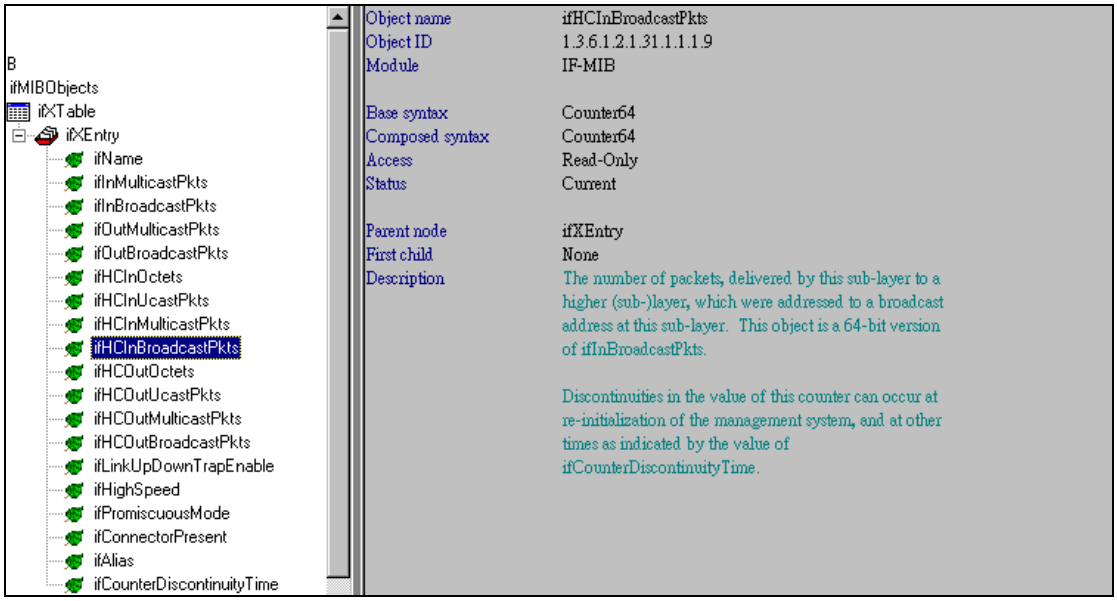
ifHCOutOctets
ifHCOutUcastPkts
ifHCOutMulticastPkts
ifHCOutBroadcastPkts
ifLinkUpDownTrapEnable
ifHighSpeed
ifPromiscuousMode
ifConnectorPresent
ifAlias
ifCounterDiscontinuityTime
Object name ifHCInMulticastPkts
Object ID 1.3.6.1.2.1.31.1.1.1.8
Module IF-MIB
Base syntax Counter64
Composed syntax Counter64
Access Read-Only
Status Current
Parent node ifXEntry
First child None
Description The number of packets, delivered by this sub-layer to a higher (sub-)layer, which were addressed to a multicast address at this sub-layer. For a MAC layer protocol, this includes both Group and Functional addresses. This object is a 64-bit version of ifInMulticastPkts.
Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of ifCounterDiscontinuityTime.


B
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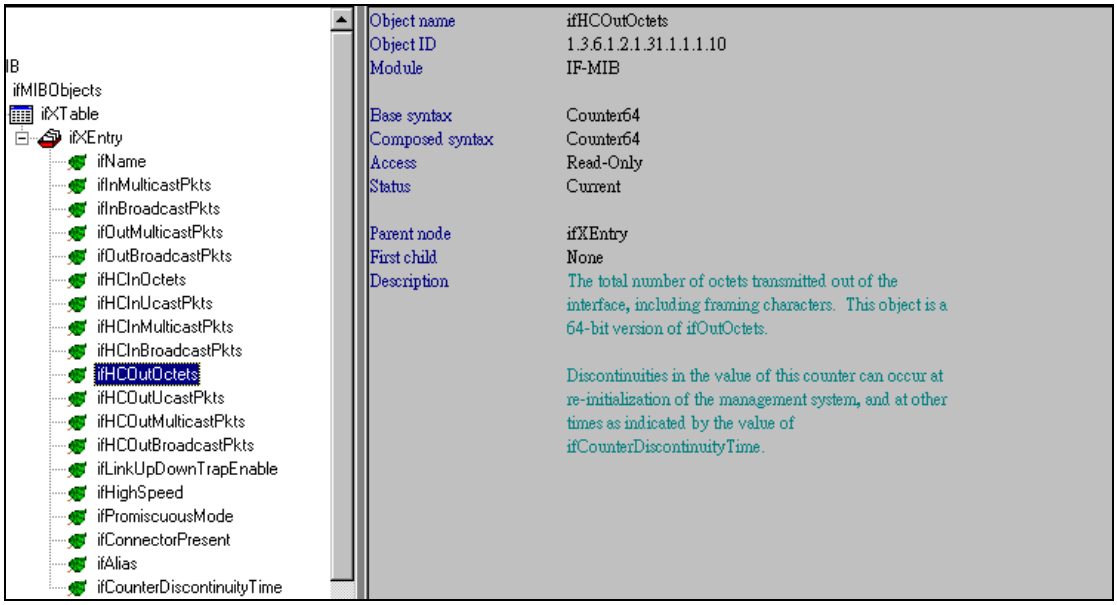
ifHCInBroadcastPkts
ifHCOutOctets
ifHCOutUcastPkts
ifHCOutMulticastPkts
ifHCOutBroadcastPkts
ifLinkUpDownTrapEnable
ifHighSpeed
ifPromiscuousMode
ifConnectorPresent
ifAlias
ifCounterDiscontinuityTime
Object name ifHCInBroadcastPkts
Object ID 1.3.6.1.2.1.31.1.1.1.9
Module IF-MIB
Base syntax Counter64
Composed syntax Counter64
Access Read-Only
Status Current
Parent node ifXEntry
First child None
Description The number of packets, delivered by this sub-layer to a higher (sub-)layer, which were addressed to a broadcast address at this sub-layer. This object is a 64-bit version of ifInBroadcastPkts.
Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of ifCounterDiscontinuityTime.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ifHCOutOctets
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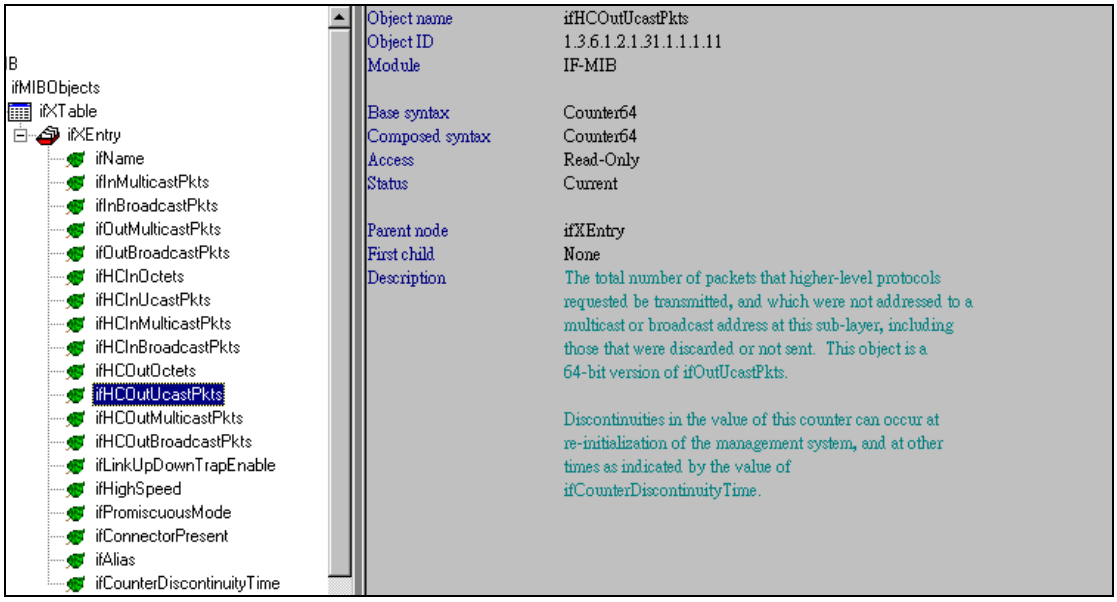
ifHCOutMulticastPkts
ifHCOutBroadcastPkts
ifLinkUpDownTrapEnable
ifHighSpeed
ifPromiscuousMode
ifConnectorPresent
ifAlias
ifCounterDiscontinuityTime
Object name ifHCOutOctets
Object ID 1.3.6.1.2.1.31.1.1.1.10
Module IF-MIB
Base syntax Counter64
Composed syntax Counter64
Access Read-Only
Status Current
Parent node ifXEntry
First child None
Description The total number of octets transmitted out of the interface, including framing characters. This object is a 64-bit version of ifOutOctets.
Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of ifCounterDiscontinuityTime.


B
ifMIBObjects
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ifXEntry
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ifOutBroadcastPkts
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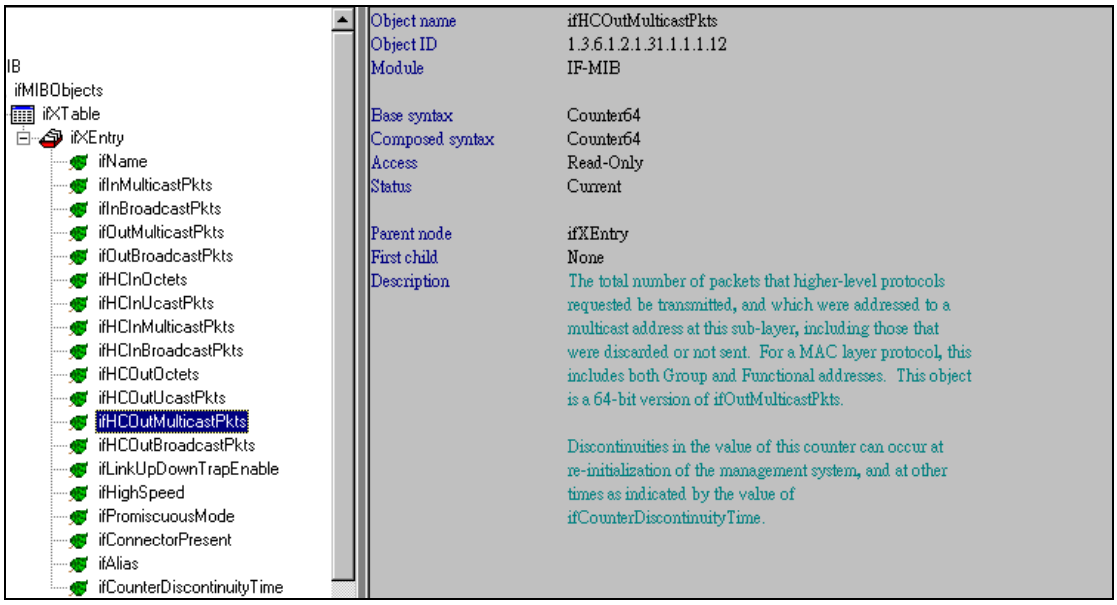
ifHCOutMulticastPkts
ifHCOutBroadcastPkts
ifLinkUpDownTrapEnable
ifHighSpeed
ifPromiscuousMode
ifConnectorPresent
ifAlias
ifCounterDiscontinuityTime
Object name ifHCOutUcastPkts
Object ID 1.3.6.1.2.1.31.1.1.1.11
Module IF-MIB
Base syntax Counter64
Composed syntax Counter64
Access Read-Only
Status Current
Parent node ifXEntry
First child None
Description The total number of packets that higher-level protocols requested be transmitted, and which were not addressed to a multicast or broadcast address at this sub-layer, including those that were discarded or not sent. This object is a 64-bit version of ifOutUcastPkts.
Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of ifCounterDiscontinuityTime.


IB
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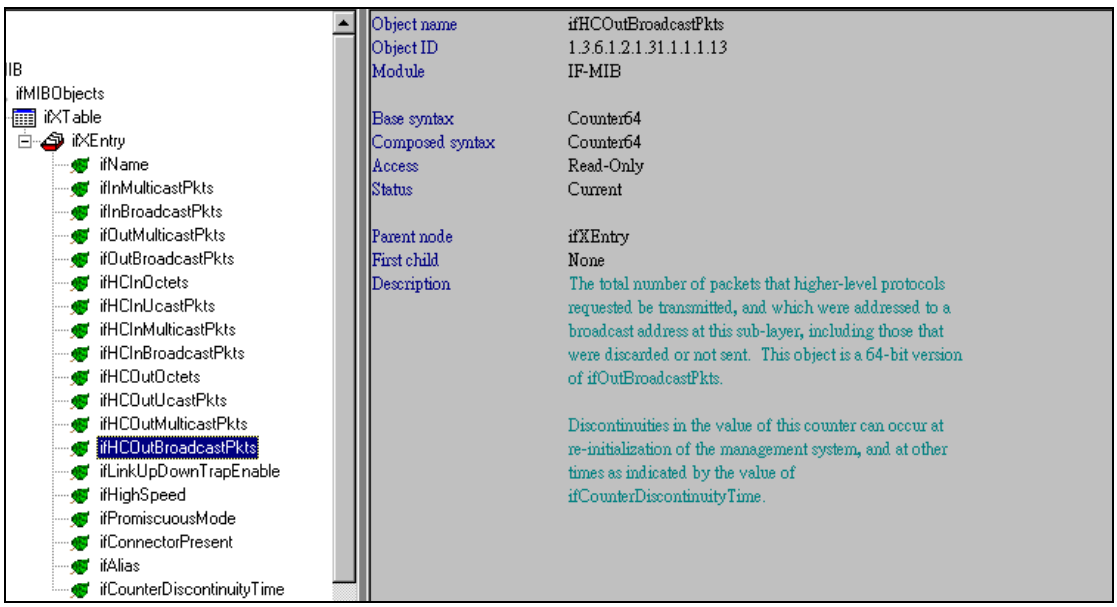
ifHCOutBroadcastPkts
ifLinkUpDownTrapEnable
ifHighSpeed
ifPromiscuousMode
ifConnectorPresent
ifAlias
ifCounterDiscontinuityTime
Object name ifHCOutMulticastPkts
Object ID 1.3.6.1.2.1.31.1.1.1.12
Module IF-MIB
Base syntax Counter64
Composed syntax Counter64
Access Read-Only
Status Current
Parent node ifXEntry
First child None
Description The total number of packets that higher-level protocols requested be transmitted, and which were addressed to a multicast address at this sub-layer, including those that were discarded or not sent. For a MAC layer protocol, this includes both Group and Functional addresses. This object is a 64-bit version of ifOutMulticastPkts.
Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of ifCounterDiscontinuityTime.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ifHCOutOctets
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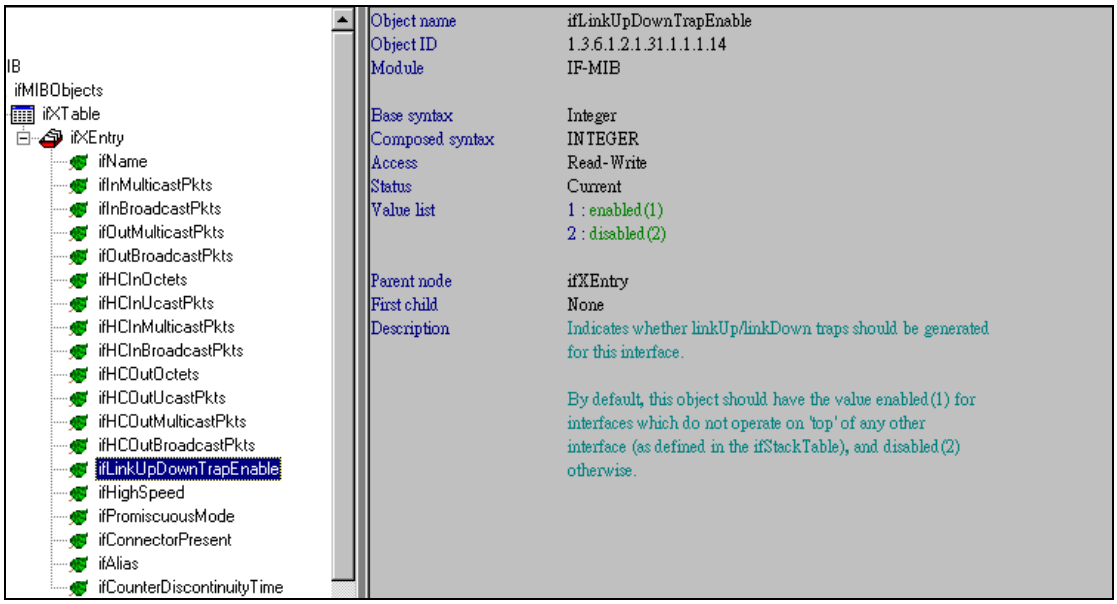
ifHCOutMulticastPkts
ifHCOutBroadcastPkts
ifLinkUpDownTrapEnable
ifHighSpeed
ifPromiscuousMode
ifConnectorPresent
ifAlias
ifCounterDiscontinuityTime
Object name ifHCOutBroadcastPkts
Object ID 1.3.6.1.2.1.31.1.1.1.13
Module IF-MIB
Base syntax Counter64
Composed syntax Counter64
Access Read-Only
Status Current
Parent node ifXEntry
First child None
Description The total number of packets that higher-level protocols requested be transmitted, and which were addressed to a broadcast address at this sub-layer, including those that were discarded or not sent. This object is a 64-bit version of ifOutBroadcastPkts.
Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of ifCounterDiscontinuityTime.


IB
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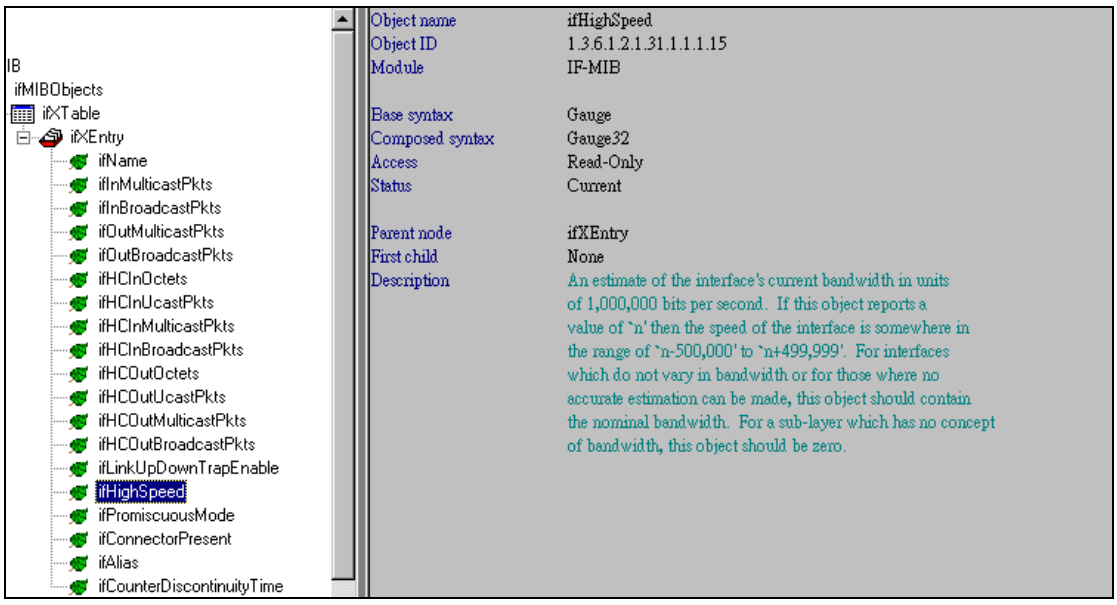
ifHCOutOctets
ifHCOutUcastPkts
ifHCOutMulticastPkts
ifHCOutBroadcastPkts
ifLinkUpDownTrapEnable
ifHighSpeed
ifPromiscuousMode
ifConnectorPresent
ifAlias
ifCounterDiscontinuityTime
Object name ifLinkUpDownTrapEnable
Object ID 1.3.6.1.2.1.31.1.1.1.14
Module IF-MIB
Base syntax Integer
Composed syntax INTEGER
Access Read-Write
Status Current
Value list 1 : enabled(1)
2 : disabled(2)
Parent node ifXEntry
First child None
Description Indicates whether linkUp/linkDown traps should be generated for this interface.
By default, this object should have the value enabled(1) for interfaces which do not operate on 'top' of any other interface (as defined in the ifStackTable), and disabled(2) otherwise.


IB
ifMIBObjects
ifXTable
ifXEntry
ifName
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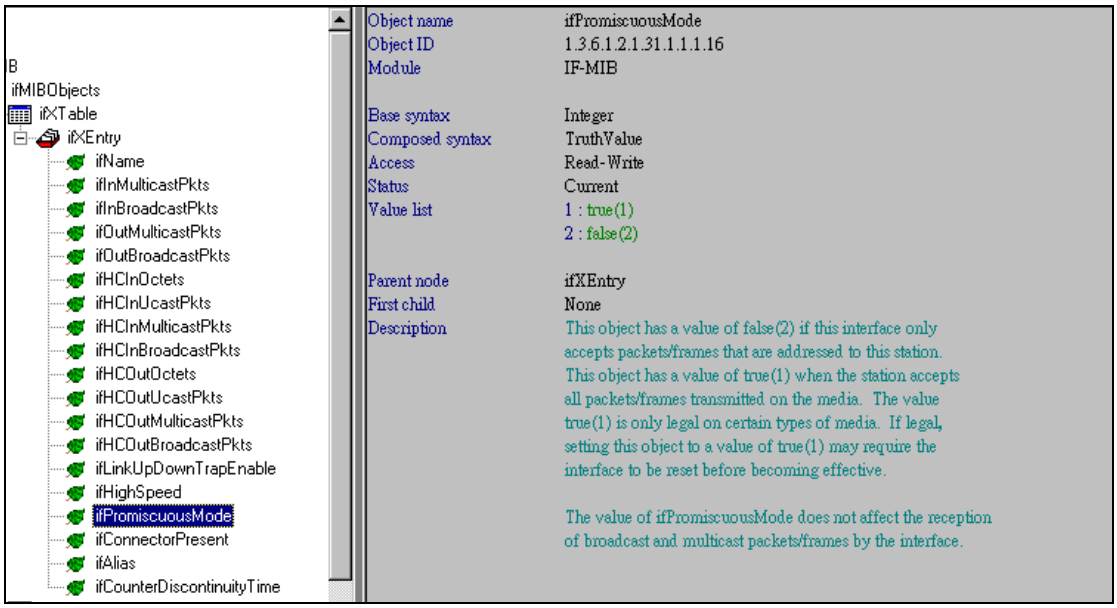
ifHCInBroadcastPkts
ifHCOutOctets
ifHCOutUcastPkts
ifHCOutMulticastPkts
ifHCOutBroadcastPkts
ifLinkUpDownTrapEnable
ifHighSpeed
ifPromiscuousMode
ifConnectorPresent
ifAlias
ifCounterDiscontinuityTime
Object name ifHighSpeed
Object ID 1.3.6.1.2.1.31.1.1.1.15
Module IF-MIB
Base syntax Gauge
Composed syntax Gauge32
Access Read-Only
Status Current
Parent node ifXEntry
First child None
Description An estimate of the interface's current bandwidth in units of 1,000,000 bits per second. If this object reports a value of `n' then the speed of the interface is somewhere in the range of `n-500,000' to `n+499,999'. For interfaces which do not vary in bandwidth or for those where no accurate estimation can be made, this object should contain the nominal bandwidth. For a sub-layer which has no concept of bandwidth, this object should be zero.


B
ifMIBObjects
ifXTable
ifXEntry
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ifInMulticastPkts
ifInBroadcastPkts
ifOutMulticastPkts
ifOutBroadcastPkts
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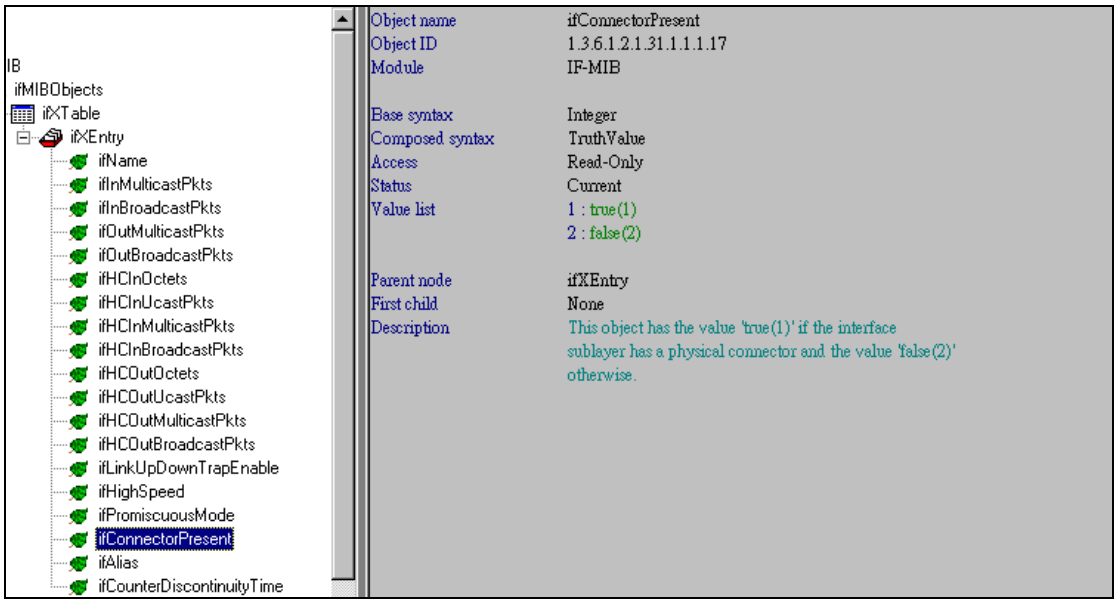
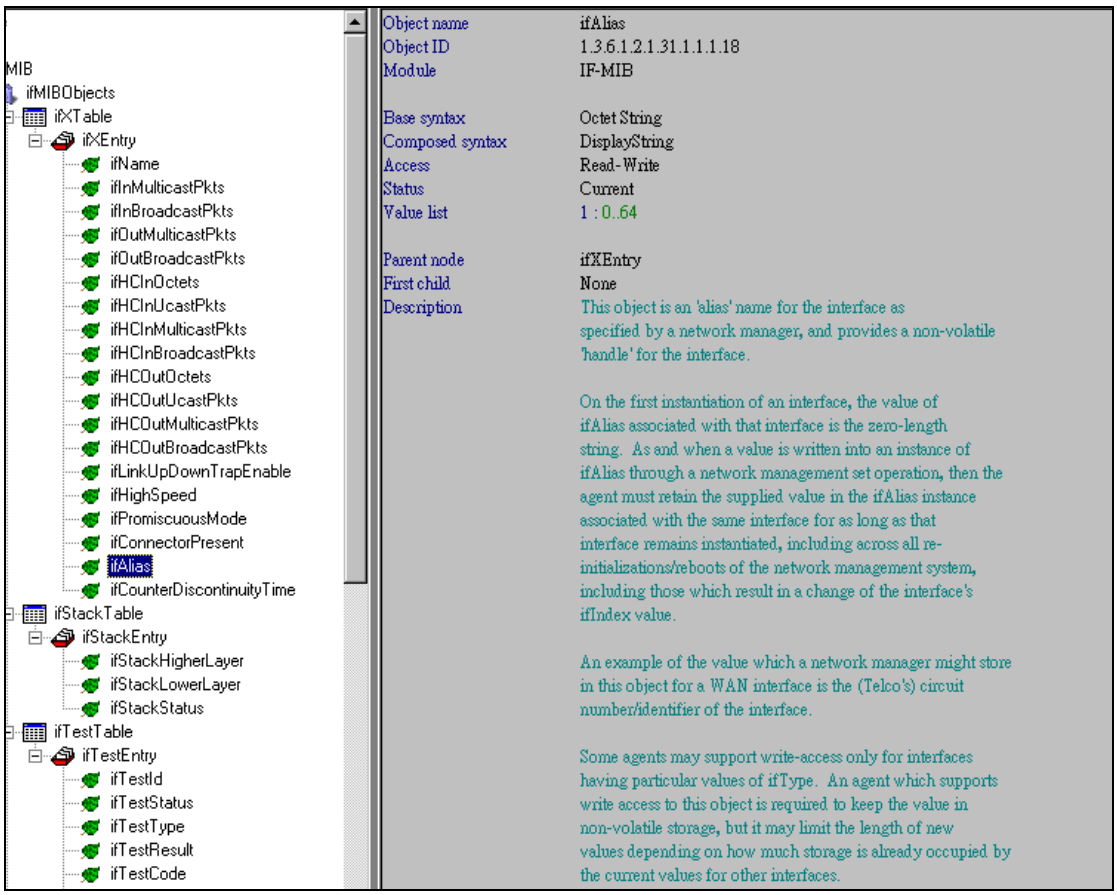
ifHCOutOctets
ifHCOutUcastPkts
ifHCOutMulticastPkts
ifHCOutBroadcastPkts
ifLinkUpDownTrapEnable
ifHighSpeed
ifPromiscuousMode
ifConnectorPresent
ifAlias
ifCounterDiscontinuityTime
Object name ifPromiscuousMode
Object ID 1.3.6.1.2.1.31.1.1.1.16
Module IF-MIB
Base syntax Integer
Composed syntax TruthValue
Access Read-Write
Status Current
Value list 1 : true(1)
2 : false(2)
Parent node ifXEntry
First child None
Description This object has a value of false(2) if this interface only accepts packets/frames that are addressed to this station. This object has a value of true(1) when the station accepts all packets/frames transmitted on the media. The value true(1) is only legal on certain types of media. If legal, setting this object to a value of true(1) may require the interface to be reset before becoming effective.
The value of ifPromiscuousMode does not affect the reception of broadcast and multicast packets/frames by the interface.


IB
ifMIBObjects
ifXTable
ifXEntry
ifName
ifInMulticastPkts
ifInBroadcastPkts
ifOutMulticastPkts
ifOutBroadcastPkts
ifHCInOctets
ifHCInUcastPkts
ifHCInMulticastPkts
ifHCInBroadcastPkts
ifHCOutOctets
ifHCOutUcastPkts
ifHCOutMulticastPkts
ifHCOutBroadcastPkts
ifLinkUpDownTrapEnable
ifHighSpeed
ifPromiscuousMode
ifConnectorPresent
ifAlias
ifCounterDiscontinuityTime
Object name ifConnectorPresent
Object ID 1.3.6.1.2.1.31.1.1.1.17
Module IF-MIB
Base syntax Integer
Composed syntax TruthValue
Access Read-Only
Status Current
Value list 1 : true(1)
2 : false(2)
Parent node ifXEntry
First child None
Description This object has the value 'true(1)' if the interface sublayer has a physical connector and the value 'false(2)' otherwise.


MIB
ifMIBObjects
ifXTable
ifXEntry
ifName
ifInMulticastPkts
ifInBroadcastPkts
ifOutMulticastPkts
ifOutBroadcastPkts
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ifHCInUcastPkts
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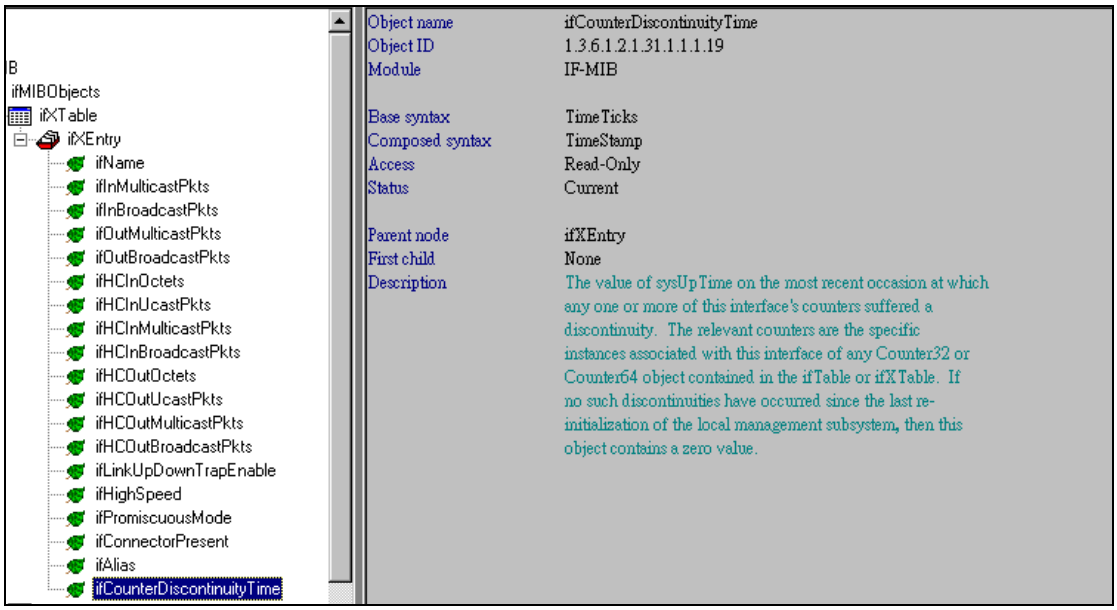
ifHCInBroadcastPkts
ifHCOutOctets
ifHCOutUcastPkts
ifHCOutMulticastPkts
ifHCOutBroadcastPkts
ifLinkUpDownTrapEnable
ifHighSpeed
ifPromiscuousMode
ifConnectorPresent
ifAlias
ifCounterDiscontinuityTime
ifStackTable
ifStackEntry
ifStackHigherLayer
ifStackLowerLayer
ifStackStatus
ifTestTable
ifTestEntry
ifTestId
ifTestStatus
ifTestType
ifTestResult
ifTestCode
Object name ifAlias
Object ID 1.3.6.1.2.1.31.1.1.1.18
Module IF-MIB
Base syntax Octet String
Composed syntax DisplayString
Access Read-Write
Status Current
Value list 1 : 0..64
Parent node ifXEntry
First child None
Description This object is an 'alias' name for the interface as specified by a network manager, and provides a non-volatile 'handle' for the interface.
On the first instantiation of an interface, the value of ifAlias associated with that interface is the zero-length string. As and when a value is written into an instance of ifAlias through a network management set operation, then the agent must retain the supplied value in the ifAlias instance associated with the same interface for as long as that interface remains instantiated, including across all re-initializations/reboots of the network management system, including those which result in a change of the interface's ifIndex value.
An example of the value which a network manager might store in this object for a WAN interface is the (Telco's) circuit number/identifier of the interface.
Some agents may support write-access only for interfaces having particular values of ifType. An agent which supports write access to this object is required to keep the value in non-volatile storage, but it may limit the length of new values depending on how much storage is already occupied by the current values for other interfaces.



How to view packet statistics with RMON on DES-3028/52 via Net-SNMP

To view packet statistics with RMON, user have to enable RMON first.

Enable RMON

DES-3028

#snmpset -c private -v 2c 10.90.90.90 1.3.6.1.4.1.171.11.63.6.2.1.2.16.0 i 3

DES-3028P

#snmpset -c private -v 2c 10.90.90.90 1.3.6.1.4.1.171.11.63.7.2.1.2.16.0 i 3

DES-3052

#snmpset -c private -v 2c 10.90.90.90 1.3.6.1.4.1.171.11.63.8.2.1.2.16.0 i 3

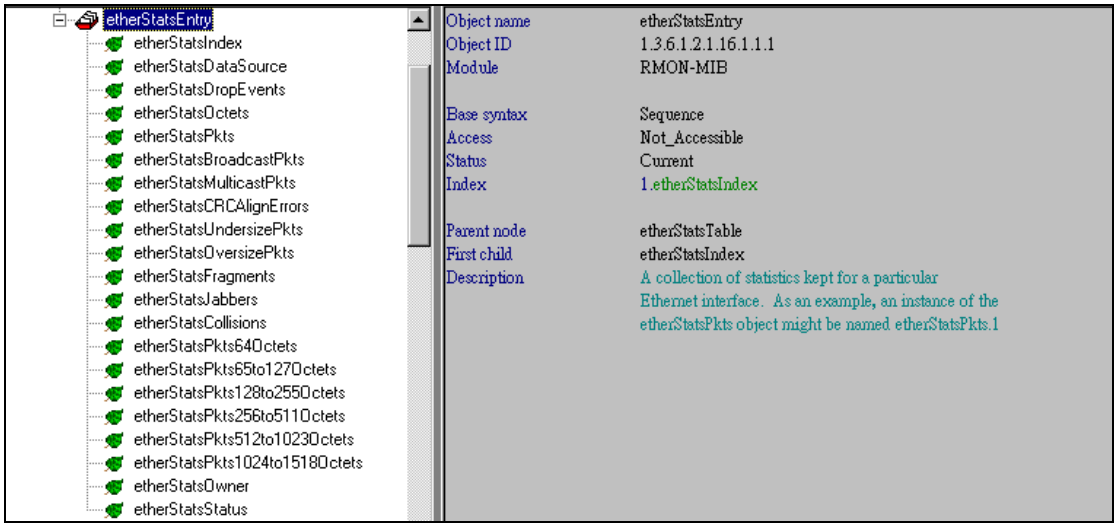
DES-3052P

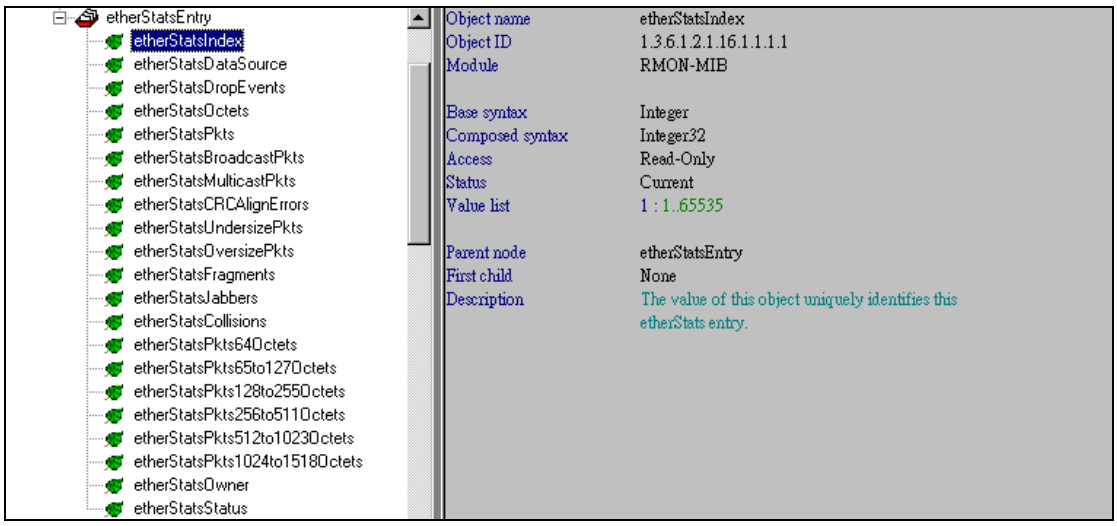
#snmpset -c private -v 2c 10.90.90.90 1.3.6.1.4.1.171.11.63.9.2.1.2.16.0 i 3

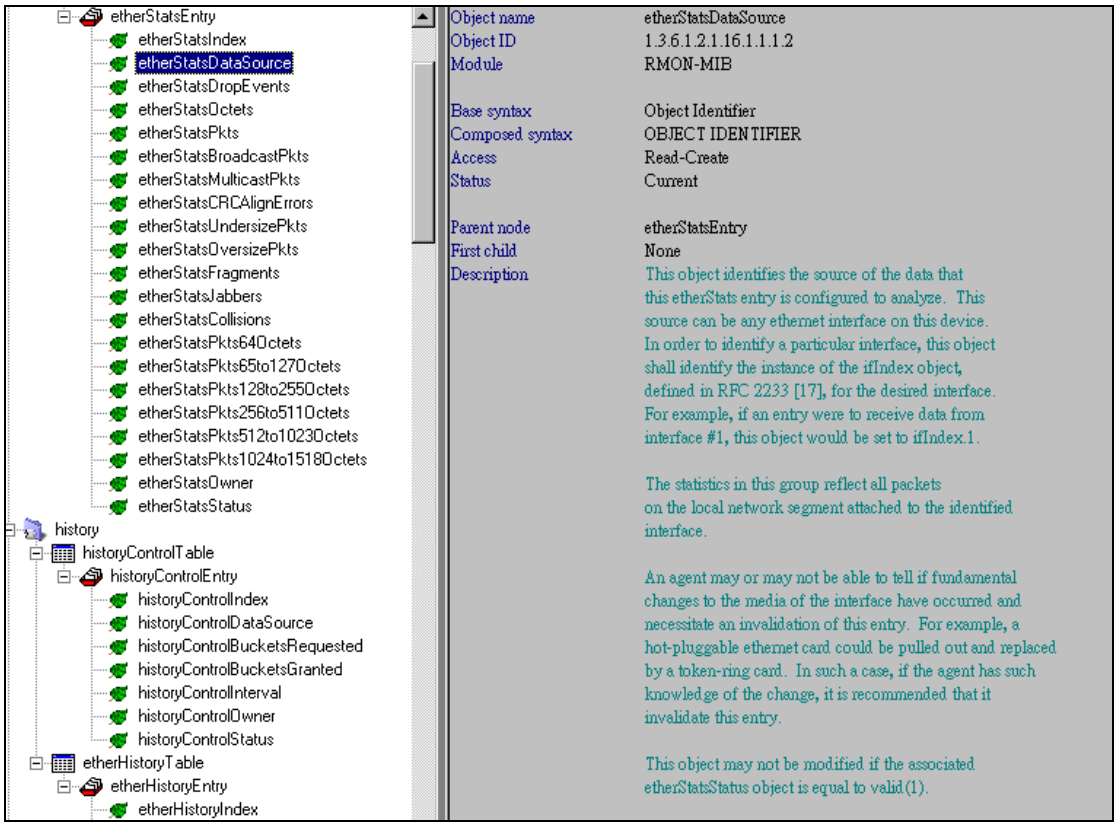
DES-3028G

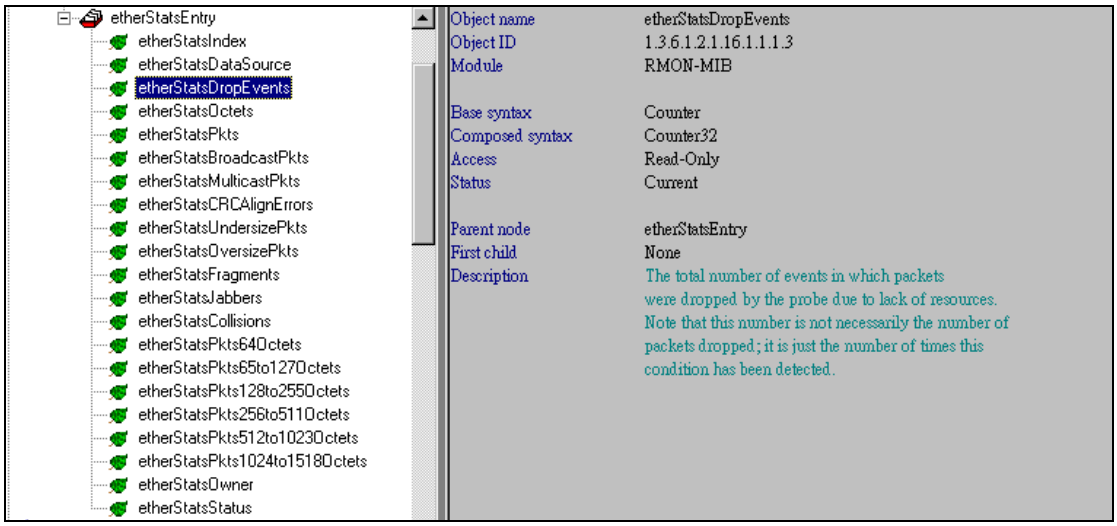
#snmpset -c private -v 2c 10.90.90.90 1.3.6.1.4.1.171.11.63.11.2.1.2.16.0 i 3

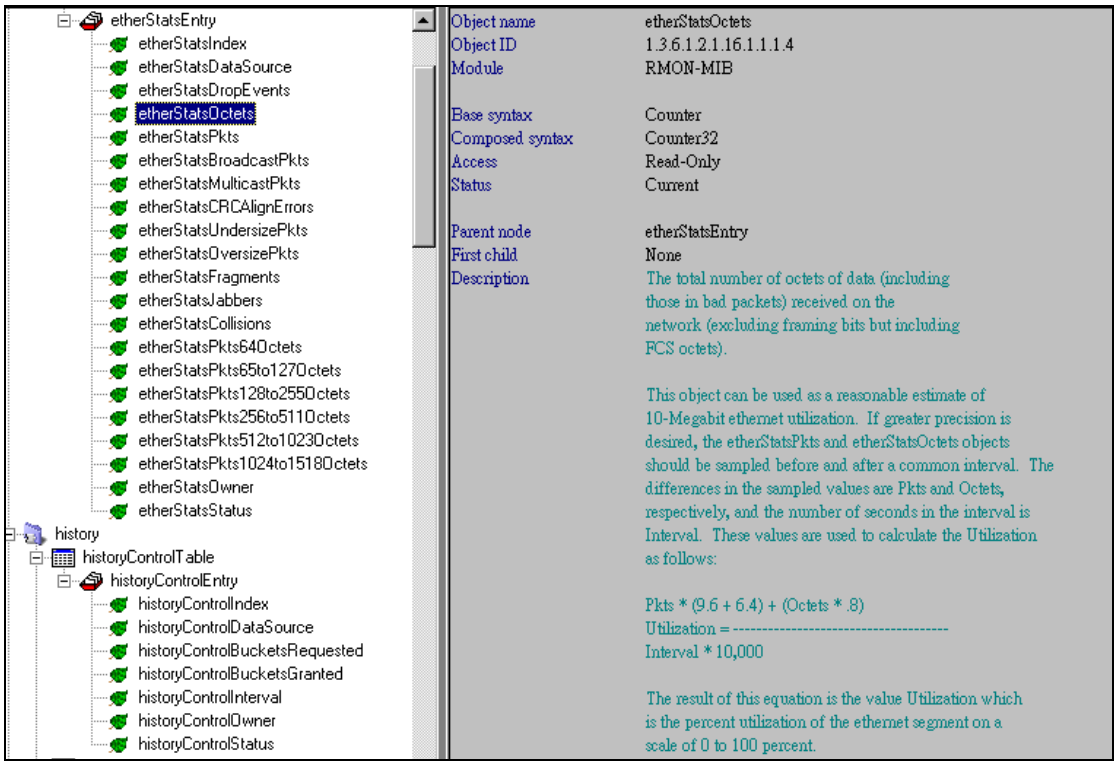
Following OID use to check statistic in RMON

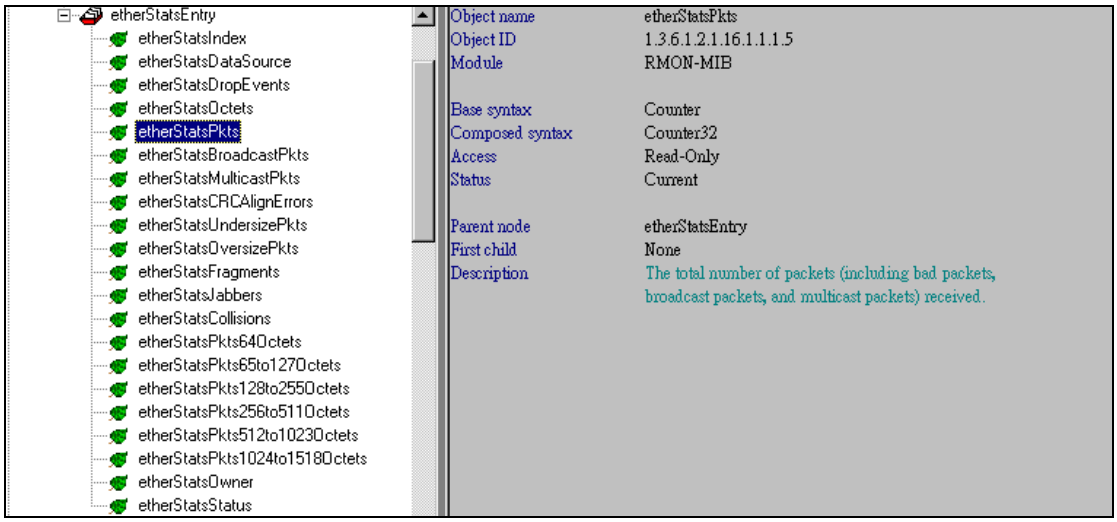


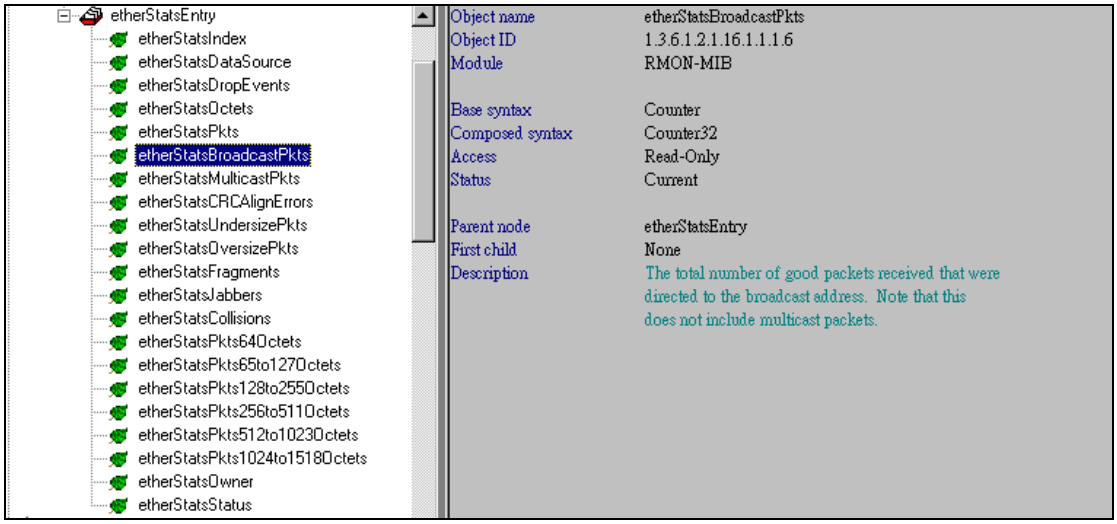


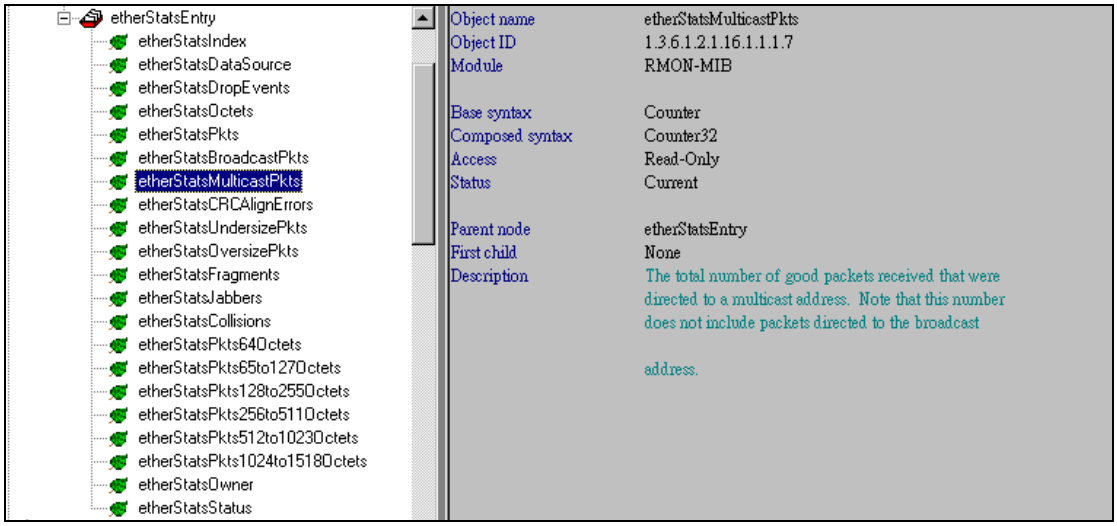

etherStatsEntry
etherStatsIndex
etherStatsDataSource
etherStatsDropEvents
etherStatsOctets
etherStatsPkts
etherStatsBroadcastPkts
etherStatsMulticastPkts
etherStatsCRCAlignErrors
etherStatsUndersizePkts
etherStatsOversizePkts
etherStatsFragments
etherStatsJabbers
etherStatsCollisions
etherStatsPkts64Octets
etherStatsPkts65to127Octets
etherStatsPkts128to255Octets
etherStatsPkts256to511Octets
etherStatsPkts512to1023Octets
etherStatsPkts1024to1518Octets
etherStatsOwner
etherStatsStatus
history
historyControlTable
historyControlEntry
historyControlIndex
historyControlDataSource
historyControlBucketsRequested
historyControlBucketsGranted
historyControlInterval
historyControlOwner
historyControlStatus
etherHistoryTable
etherHistoryEntry
etherHistoryIndex
Object name etherStatsDataSource
Object ID 1.3.6.1.2.1.16.1.1.1.2
Module RMON-MIB
Base syntax Object Identifier
Composed syntax OBJECT IDENTIFIER
Access Read-Create
Status Current
Parent node etherStatsEntry
First child None
Description This object identifies the source of the data that this etherStats entry is configured to analyze. This source can be any ethernet interface on this device. In order to identify a particular interface, this object shall identify the instance of the ifIndex object, defined in RFC 2233 [17], for the desired interface. For example, if an entry were to receive data from interface #1, this object would be set to ifIndex.1.
The statistics in this group reflect all packets on the local network segment attached to the identified interface.
An agent may or may not be able to tell if fundamental changes to the media of the interface have occurred and necessitate an invalidation of this entry. For example, a hot-pluggable ethernet card could be pulled out and replaced by a token-ring card. In such a case, if the agent has such knowledge of the change, it is recommended that it invalidate this entry.
This object may not be modified if the associated etherStatsStatus object is equal to valid(1).

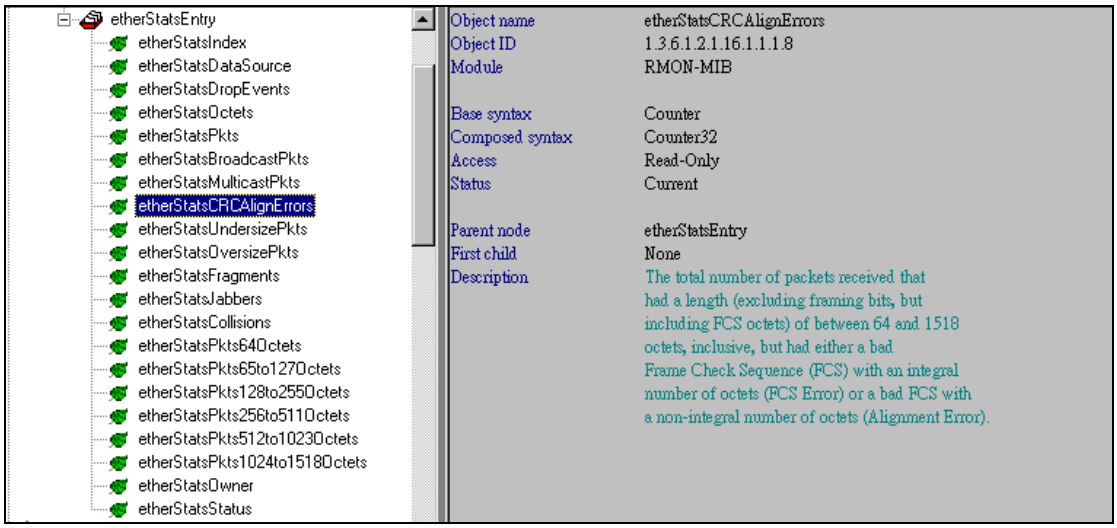

etherStatsEntry
etherStatsIndex
etherStatsDataSource
etherStatsDropEvents
etherStatsOctets
etherStatsPkts
etherStatsBroadcastPkts
etherStatsMulticastPkts
etherStatsCRCAlignErrors
etherStatsUndersizePkts
etherStatsOversizePkts
etherStatsFragments
etherStatsJabbers
etherStatsCollisions
etherStatsPkts64Octets
etherStatsPkts65to127Octets
etherStatsPkts128to255Octets
etherStatsPkts256to511Octets
etherStatsPkts512to1023Octets
etherStatsPkts1024to1518Octets
etherStatsOwner
etherStatsStatus
Object name etherStatsDropEvents
Object ID 1.3.6.1.2.1.16.1.1.1.3
Module RMON-MIB
Base syntax Counter
Composed syntax Counter32
Access Read-Only
Status Current
Parent node etherStatsEntry
First child None
Description The total number of events in which packets were dropped by the probe due to lack of resources. Note that this number is not necessarily the number of packets dropped; it is just the number of times this condition has been detected.

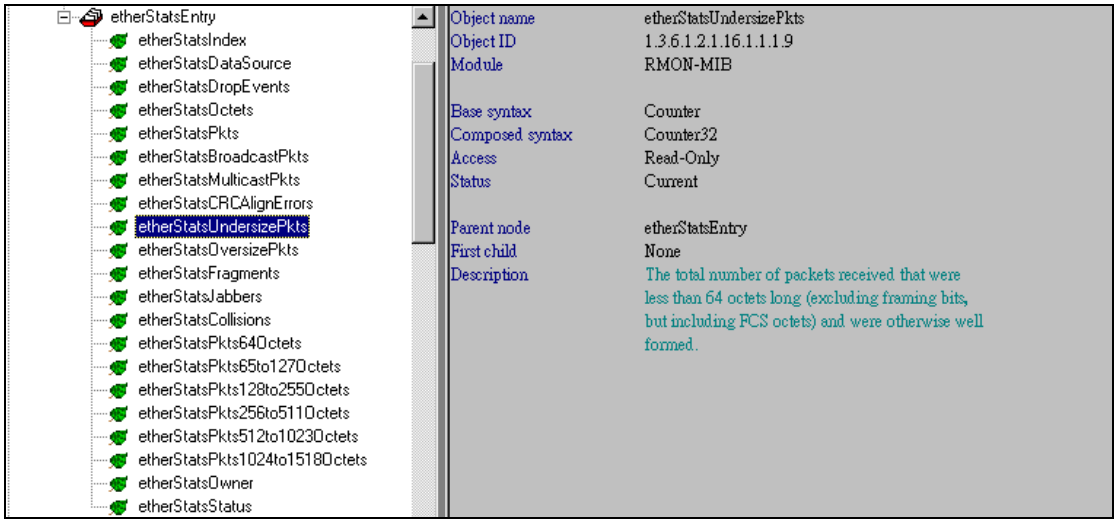

etherStatsEntry
etherStatsIndex
etherStatsDataSource
etherStatsDropEvents
etherStatsOctets
etherStatsPkts
etherStatsBroadcastPkts
etherStatsMulticastPkts
etherStatsCRCAlignErrors
etherStatsUndersizePkts
etherStatsOversizePkts
etherStatsFragments
etherStatsJabbers
etherStatsCollisions
etherStatsPkts64Octets
etherStatsPkts65to127Octets
etherStatsPkts128to255Octets
etherStatsPkts256to511Octets
etherStatsPkts512to1023Octets
etherStatsPkts1024to1518Octets
etherStatsOwner
etherStatsStatus
history
historyControlTable
historyControlEntry
historyControlIndex
historyControlDataSource
historyControlBucketsRequested
historyControlBucketsGranted
historyControlInterval
historyControlOwner
historyControlStatus
Object name etherStatsOctets
Object ID 1.3.6.1.2.1.16.1.1.1.4
Module RMON-MIB
Base syntax Counter
Composed syntax Counter32
Access Read-Only
Status Current
Parent node etherStatsEntry
First child None
Description The total number of octets of data (including those in bad packets) received on the network (excluding framing bits but including FCS octets).
This object can be used as a reasonable estimate of 10-Megabit ethernet utilization. If greater precision is desired, the etherStatsPkts and etherStatsOctets objects should be sampled before and after a common interval. The differences in the sampled values are Pkts and Octets, respectively, and the number of seconds in the interval is Interval. These values are used to calculate the Utilization as follows:
Pkts * (9.6 + 6.4) + (Octets * .8)
Utilization = ----------
Interval * 10,000
The result of this equation is the value Utilization which is the percent utilization of the ethernet segment on a scale of 0 to 100 percent.

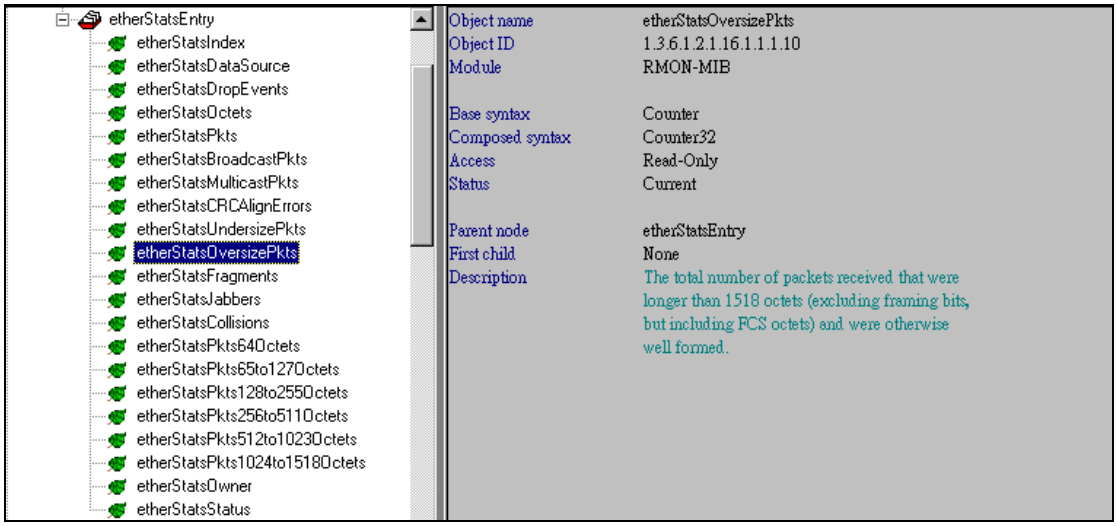

etherStatsEntry
etherStatsIndex
etherStatsDataSource
etherStatsDropEvents
etherStatsOctets
etherStatsPkts
etherStatsBroadcastPkts
etherStatsMulticastPkts
etherStatsCRCAlignErrors
etherStatsUndersizePkts
etherStatsOversizePkts
etherStatsFragments
etherStatsJabbers
etherStatsCollisions
etherStatsPkts64Octets
etherStatsPkts65to127Octets
etherStatsPkts128to255Octets
etherStatsPkts256to511Octets
etherStatsPkts512to1023Octets
etherStatsPkts1024to1518Octets
etherStatsOwner
etherStatsStatus
Object name etherStatsPkts
Object ID 1.3.6.1.2.1.16.1.1.1.5
Module RMON-MIB
Base syntax Counter
Composed syntax Counter32
Access Read-Only
Status Current
Parent node etherStatsEntry
First child None
Description The total number of packets (including bad packets, broadcast packets, and multicast packets) received.

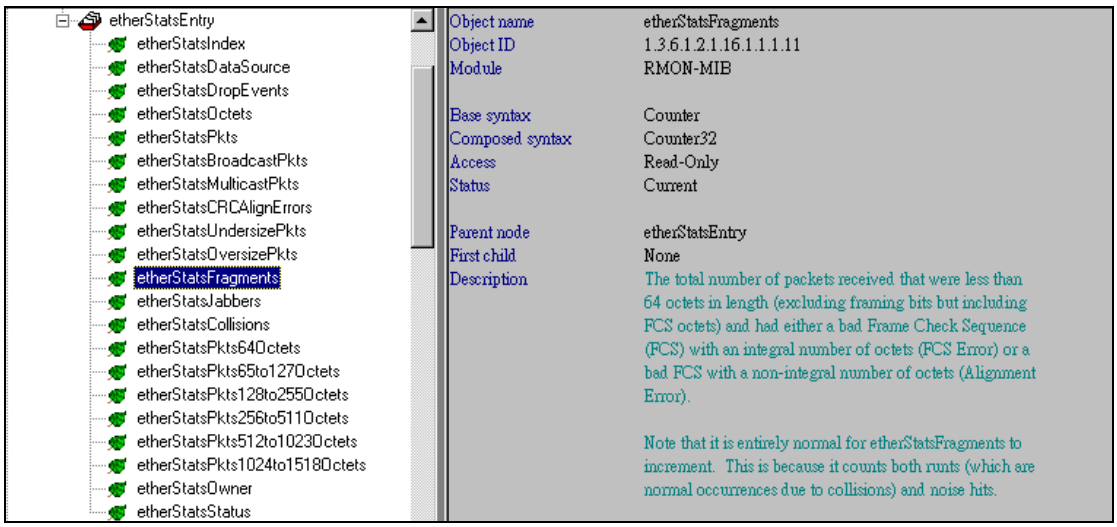

etherStatsEntry
etherStatsIndex
etherStatsDataSource
etherStatsDropEvents
etherStatsOctets
etherStatsPkts
etherStatsBroadcastPkts
etherStatsMulticastPkts
etherStatsCRCAlignErrors
etherStatsUndersizePkts
etherStatsOversizePkts
etherStatsFragments
etherStatsJabbers
etherStatsCollisions
etherStatsPkts64Octets
etherStatsPkts65to127Octets
etherStatsPkts128to255Octets
etherStatsPkts256to511Octets
etherStatsPkts512to1023Octets
etherStatsPkts1024to1518Octets
etherStatsOwner
etherStatsStatus
Object name etherStatsBroadcastPkts
Object ID 1.3.6.1.2.1.16.1.1.1.6
Module RMON-MIB
Base syntax Counter
Composed syntax Counter32
Access Read-Only
Status Current
Parent node etherStatsEntry
First child None
Description The total number of good packets received that were directed to the broadcast address. Note that this does not include multicast packets.

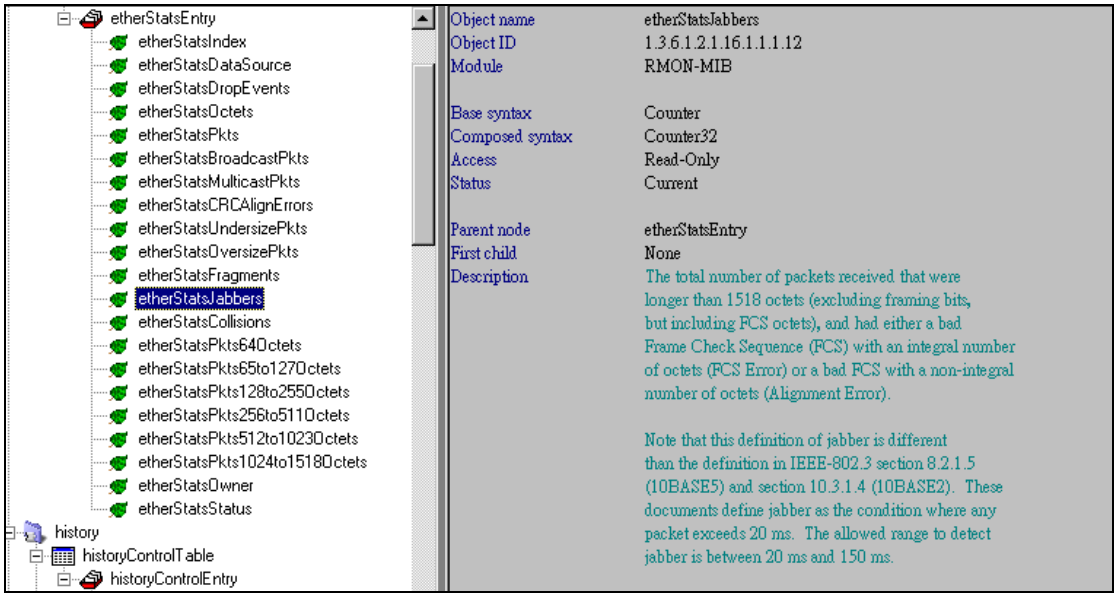

etherStatsEntry
etherStatsIndex
etherStatsDataSource
etherStatsDropEvents
etherStatsOctets
etherStatsPkts
etherStatsBroadcastPkts
etherStatsMulticastPkts
etherStatsCRCAlignErrors
etherStatsUndersizePkts
etherStatsOversizePkts
etherStatsFragments
etherStatsJabbers
etherStatsCollisions
etherStatsPkts64Octets
etherStatsPkts65to127Octets
etherStatsPkts128to255Octets
etherStatsPkts256to511Octets
etherStatsPkts512to1023Octets
etherStatsPkts1024to1518Octets
etherStatsOwner
etherStatsStatus
Object name etherStatsMulticastPkts
Object ID 1.3.6.1.2.1.16.1.1.1.7
Module RMON-MIB
Base syntax Counter
Composed syntax Counter32
Access Read-Only
Status Current
Parent node etherStatsEntry
First child None
Description The total number of good packets received that were directed to a multicast address. Note that this number does not include packets directed to the broadcast address.


etherStatsEntry
etherStatsIndex
etherStatsDataSource
etherStatsDropEvents
etherStatsOctets
etherStatsPkts
etherStatsBroadcastPkts
etherStatsMulticastPkts
etherStatsCRCAlignErrors
etherStatsUndersizePkts
etherStatsOversizePkts
etherStatsFragments
etherStatsJabbers
etherStatsCollisions
etherStatsPkts64Octets
etherStatsPkts65to127Octets
etherStatsPkts128to255Octets
etherStatsPkts256to511Octets
etherStatsPkts512to1023Octets
etherStatsPkts1024to1518Octets
etherStatsOwner
etherStatsStatus
Object name etherStatsCRCAlignErrors
Object ID 1.3.6.1.2.1.16.1.1.1.8
Module RMON-MIB
Base syntax Counter
Composed syntax Counter32
Access Read-Only
Status Current
Parent node etherStatsEntry
First child None
Description The total number of packets received that had a length (excluding framing bits, but including FCS octets) of between 64 and 1518 octets, inclusive, but had either a bad Frame Check Sequence (FCS) with an integral number of octets (FCS Error) or a bad FCS with a non-integral number of octets (Alignment Error).

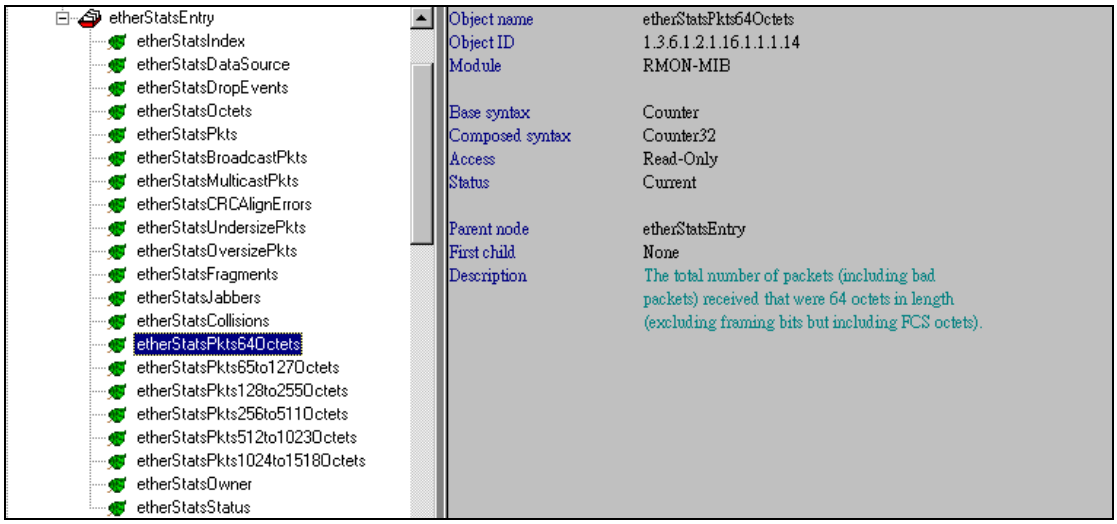

etherStatsEntry
etherStatsIndex
etherStatsDataSource
etherStatsDropEvents
etherStatsOctets
etherStatsPkts
etherStatsBroadcastPkts
etherStatsMulticastPkts
etherStatsCRCAlignErrors
etherStatsUndersizePkts
etherStatsOversizePkts
etherStatsFragments
etherStatsJabbers
etherStatsCollisions
etherStatsPkts64Octets
etherStatsPkts65to127Octets
etherStatsPkts128to255Octets
etherStatsPkts256to511Octets
etherStatsPkts512to1023Octets
etherStatsPkts1024to1518Octets
etherStatsOwner
etherStatsStatus
Object name etherStatsUndersizePkts
Object ID 1.3.6.1.2.1.16.1.1.1.9
Module RMON-MIB
Base syntax Counter
Composed syntax Counter32
Access Read-Only
Status Current
Parent node etherStatsEntry
First child None
Description The total number of packets received that were less than 64 octets long (excluding framing bits, but including FCS octets) and were otherwise well formed.

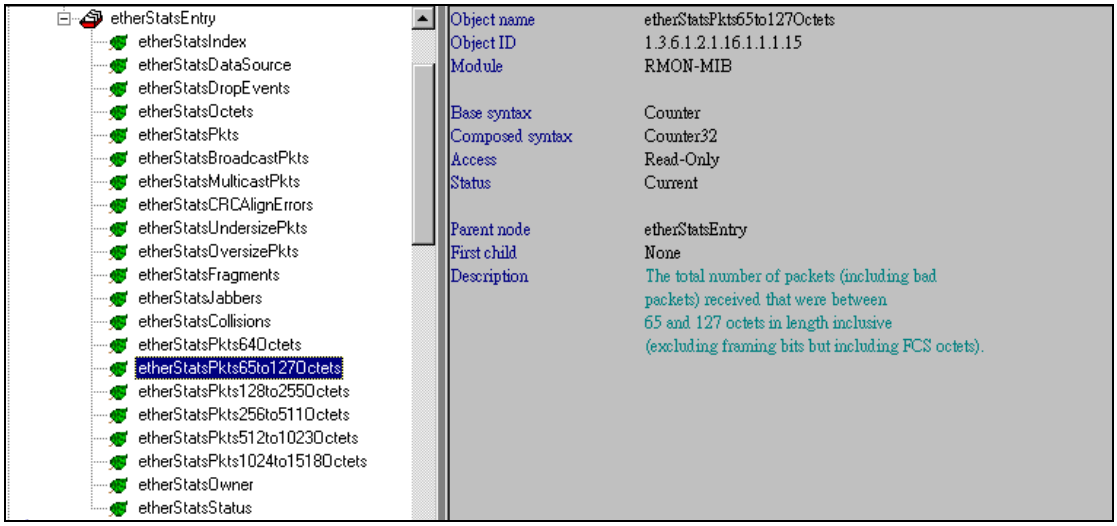

etherStatsEntry
etherStatsIndex
etherStatsDataSource
etherStatsDropEvents
etherStatsOctets
etherStatsPkts
etherStatsBroadcastPkts
etherStatsMulticastPkts
etherStatsCRCAlignErrors
etherStatsUndersizePkts
etherStatsOversizePkts
etherStatsFragments
etherStatsJabbers
etherStatsCollisions
etherStatsPkts64Octets
etherStatsPkts65to127Octets
etherStatsPkts128to255Octets
etherStatsPkts256to511Octets
etherStatsPkts512to1023Octets
etherStatsPkts1024to1518Octets
etherStatsOwner
etherStatsStatus
Object name etherStatsOversizePkts
Object ID 1.3.6.1.2.1.16.1.1.1.10
Module RMON-MIB
Base syntax Counter
Composed syntax Counter32
Access Read-Only
Status Current
Parent node etherStatsEntry
First child None
Description The total number of packets received that were longer than 1518 octets (excluding framing bits, but including FCS octets) and were otherwise well formed.

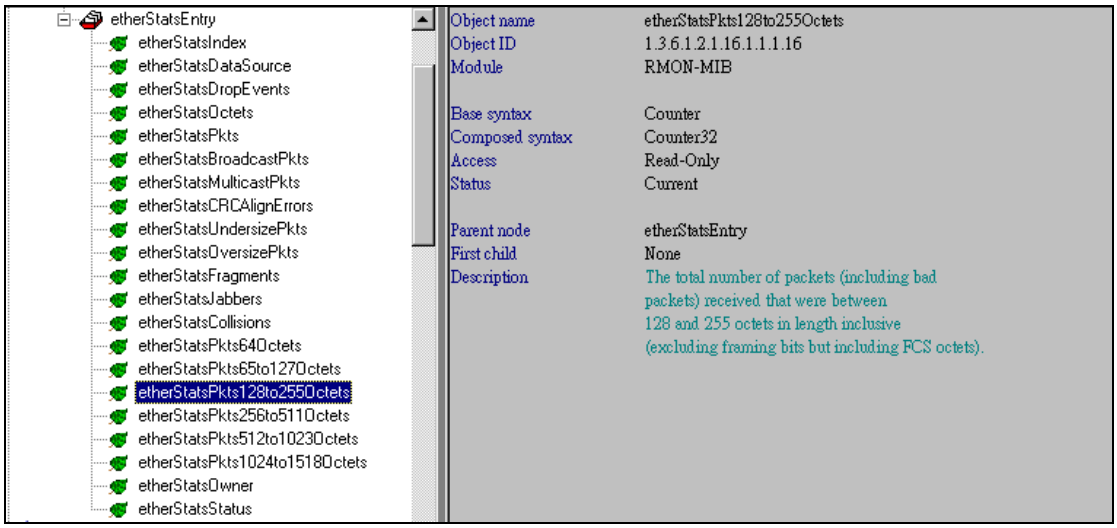

etherStatsEntry
etherStatsIndex
etherStatsDataSource
etherStatsDropEvents
etherStatsOctets
etherStatsPkts
etherStatsBroadcastPkts
etherStatsMulticastPkts
etherStatsCRCAlignErrors
etherStatsUndersizePkts
etherStatsOversizePkts
etherStatsFragments
etherStatsJabbers
etherStatsCollisions
etherStatsPkts64Octets
etherStatsPkts65to127Octets
etherStatsPkts128to255Octets
etherStatsPkts256to511Octets
etherStatsPkts512to1023Octets
etherStatsPkts1024to1518Octets
etherStatsOwner
etherStatsStatus
Object name etherStatsFragments
Object ID 1.3.6.1.2.1.16.1.1.1.11
Module RMON-MIB
Base syntax Counter
Composed syntax Counter32
Access Read-Only
Status Current
Parent node etherStatsEntry
First child None
Description The total number of packets received that were less than 64 octets in length (excluding framing bits but including FCS octets) and had either a bad Frame Check Sequence (FCS) with an integral number of octets (FCS Error) or a bad FCS with a non-integral number of octets (Alignment Error).
Note that it is entirely normal for etherStatsFragments to increment. This is because it counts both runts (which are normal occurrences due to collisions) and noise hits.

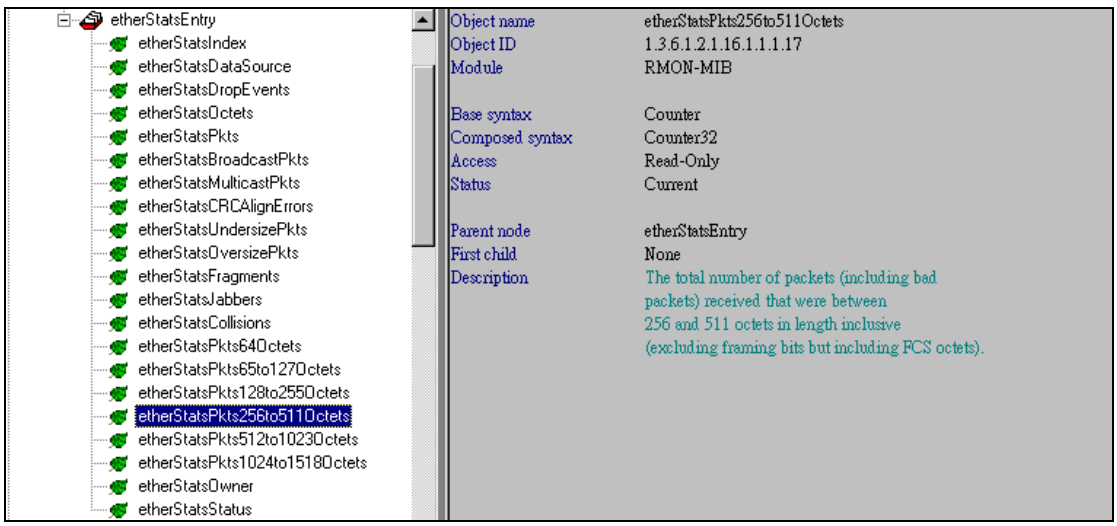

etherStatsEntry
etherStatsIndex
etherStatsDataSource
etherStatsDropEvents
etherStatsOctets
etherStatsPkts
etherStatsBroadcastPkts
etherStatsMulticastPkts
etherStatsCRCAlignErrors
etherStatsUndersizePkts
etherStatsOversizePkts
etherStatsFragments
etherStatsJabbers
etherStatsCollisions
etherStatsPkts64Octets
etherStatsPkts65to127Octets
etherStatsPkts128to255Octets
etherStatsPkts256to511Octets
etherStatsPkts512to1023Octets
etherStatsPkts1024to1518Octets
etherStatsOwner
etherStatsStatus
history
historyControlTable
historyControlEntry
Object name etherStatsJabbers
Object ID 1.3.6.1.2.1.16.1.1.1.12
Module RMON-MIB
Base syntax Counter
Composed syntax Counter32
Access Read-Only
Status Current
Parent node etherStatsEntry
First child None
Description The total number of packets received that were longer than 1518 octets (excluding framing bits, but including FCS octets), and had either a bad Frame Check Sequence (FCS) with an integral number of octets (FCS Error) or a bad FCS with a non-integral number of octets (Alignment Error).
Note that this definition of jabber is different than 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 where any packet exceeds 20 ms. The allowed range to detect jabber is between 20 ms and 150 ms.

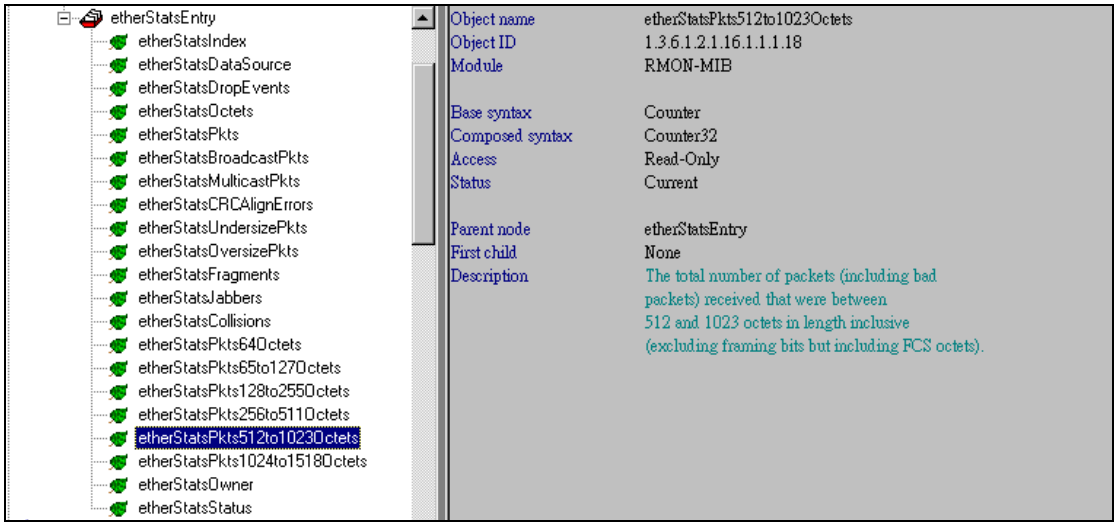

etherStatsEntry
etherStatsIndex
etherStatsDataSource
etherStatsDropEvents
etherStatsOctets
etherStatsPkts
etherStatsBroadcastPkts
etherStatsMulticastPkts
etherStatsCRCAlignErrors
etherStatsUndersizePkts
etherStatsOversizePkts
etherStatsFragments
etherStatsJabbers
etherStatsCollisions
etherStatsPkts64Octets
etherStatsPkts65to127Octets
etherStatsPkts128to255Octets
etherStatsPkts256to511Octets
etherStatsPkts512to1023Octets
etherStatsPkts1024to1518Octets
etherStatsOwner
etherStatsStatus
history
historyControlTable
historyControlEntry
historyControlIndex
historyControlDataSource
historyControlBucketsRequested
historyControlBucketsGranted
historyControlInterval
historyControlOwner
historyControlStatus
etherHistoryTable
etherHistoryEntry
etherHistoryIndex
etherHistorySampleIndex
etherHistoryIntervalStart
etherHistoryDropEvents
etherHistoryOctets
etherHistoryPkts
Object name etherStatsCollisions
Object ID 1.3.6.1.2.1.16.1.1.1.13
Module RMON-MIB
Base syntax Counter
Composed syntax Counter32
Access Read-Only
Status Current
Parent node etherStatsEntry
First child None
Description The best estimate of the total number of collisions on this Ethernet segment.
The value returned will depend on the location of the RMON probe. Section 8.2.1.3 (10BASE-5) and section 10.3.1.3 (10BASE-2) of IEEE standard 802.3 states that a station must detect a collision, in the receive mode, if three or more stations are transmitting simultaneously. A repeater port must detect a collision when two or more
stations are transmitting simultaneously. Thus a probe placed on a repeater port could record more collisions than a probe connected to a station on the same segment would.
Probe location plays a much smaller role when considering 10BASE-T. 14.2.1.4 (10BASE-T) of IEEE standard 802.3 defines a collision as the simultaneous presence of signals on the DO and RD circuits (transmitting and receiving at the same time). A 10BASE-T station can only detect collisions when it is transmitting. Thus probes placed on a station and a repeater, should report the same number of collisions.
Note also that an RMON probe inside a repeater should ideally report collisions between the repeater and one or more other hosts (transmit collisions as defined by IEEE 802.3k) plus receiver collisions observed on any coax segments to which the repeater is connected.

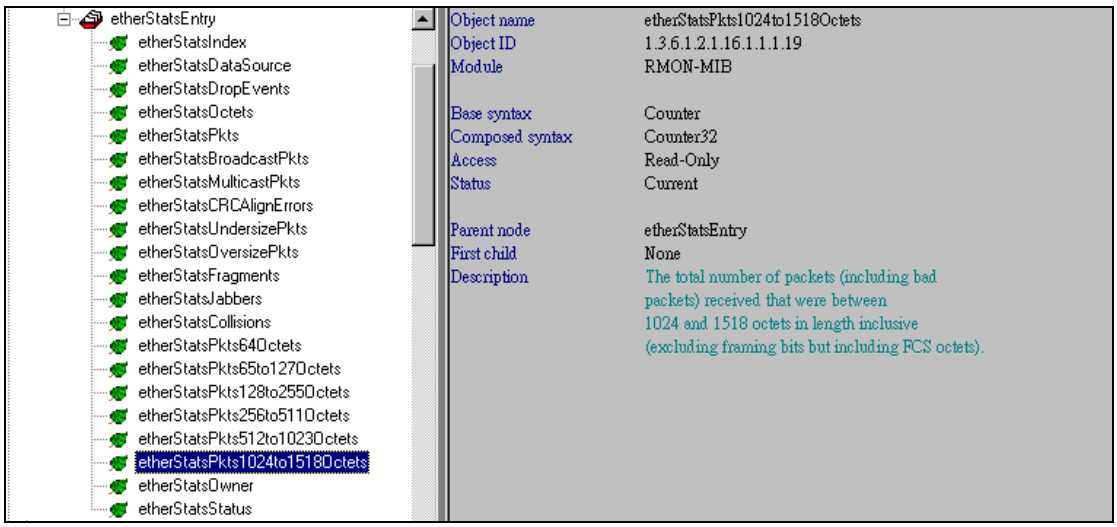

etherStatsEntry
etherStatsIndex
etherStatsDataSource
etherStatsDropEvents
etherStatsOctets
etherStatsPkts
etherStatsBroadcastPkts
etherStatsMulticastPkts
etherStatsCRCAlignErrors
etherStatsUndersizePkts
etherStatsOversizePkts
etherStatsFragments
etherStatsJabbers
etherStatsCollisions
etherStatsPkts64Octets
etherStatsPkts65to127Octets
etherStatsPkts128to255Octets
etherStatsPkts256to511Octets
etherStatsPkts512to1023Octets
etherStatsPkts1024to1518Octets
etherStatsOwner
etherStatsStatus
Object name etherStatsPkts64Octets
Object ID 1.3.6.1.2.1.16.1.1.1.14
Module RMON-MIB
Base syntax Counter
Composed syntax Counter32
Access Read-Only
Status Current
Parent node etherStatsEntry
First child None
Description The total number of packets (including bad packets) received that were 64 octets in length (excluding framing bits but including FCS octets).

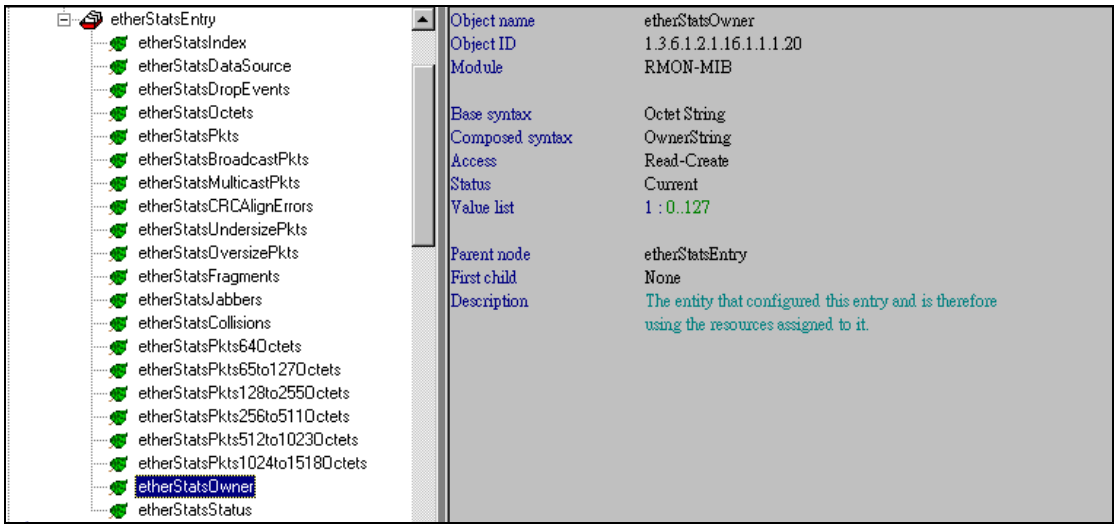

etherStatsEntry
etherStatsIndex
etherStatsDataSource
etherStatsDropEvents
etherStatsOctets
etherStatsPkts
etherStatsBroadcastPkts
etherStatsMulticastPkts
etherStatsCRCAlignErrors
etherStatsUndersizePkts
etherStatsOversizePkts
etherStatsFragments
etherStatsJabbers
etherStatsCollisions
etherStatsPkts64Octets
etherStatsPkts65to127Octets
etherStatsPkts128to255Octets
etherStatsPkts256to511Octets
etherStatsPkts512to1023Octets
etherStatsPkts1024to1518Octets
etherStatsOwner
etherStatsStatus
Object name etherStatsPkts65to127Octets
Object ID 1.3.6.1.2.1.16.1.1.1.15
Module RMON-MIB
Base syntax Counter
Composed syntax Counter32
Access Read-Only
Status Current
Parent node etherStatsEntry
First child None
Description The total number of packets (including bad packets) received that were between 65 and 127 octets in length inclusive (excluding framing bits but including FCS octets).

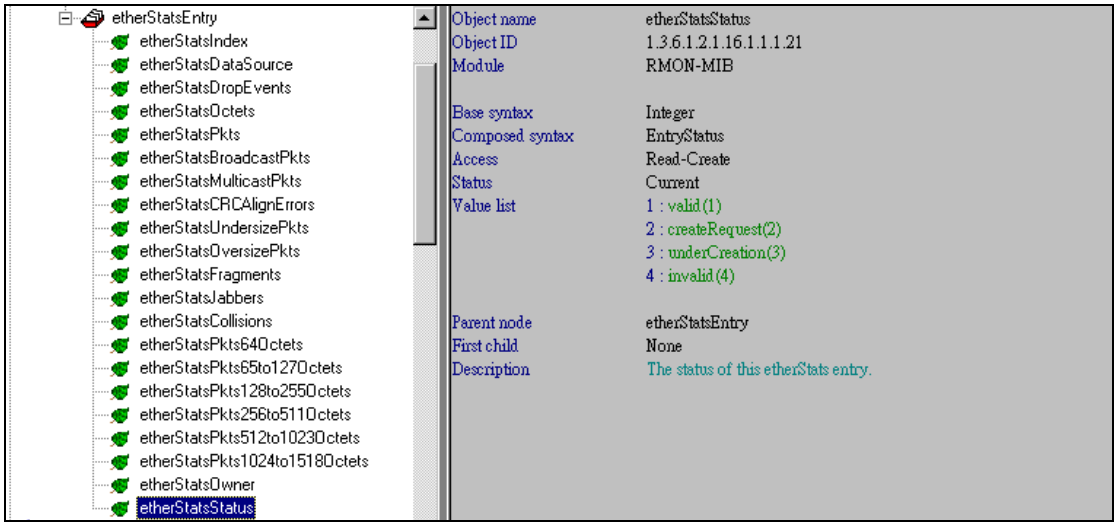

etherStatsEntry
etherStatsIndex
etherStatsDataSource
etherStatsDropEvents
etherStatsOctets
etherStatsPkts
etherStatsBroadcastPkts
etherStatsMulticastPkts
etherStatsCRCAlignErrors
etherStatsUndersizePkts
etherStatsOversizePkts
etherStatsFragments
etherStatsJabbers
etherStatsCollisions
etherStatsPkts64Octets
etherStatsPkts65to127Octets
etherStatsPkts128to255Octets
etherStatsPkts256to511Octets
etherStatsPkts512to1023Octets
etherStatsPkts1024to1518Octets
etherStatsOwner
etherStatsStatus
Object name etherStatsPkts128to255Octets
Object ID 1.3.6.1.2.1.16.1.1.1.16
Module RMON-MIB
Base syntax Counter
Composed syntax Counter32
Access Read-Only
Status Current
Parent node etherStatsEntry
First child None
Description The total number of packets (including bad packets) received that were between 128 and 255 octets in length inclusive (excluding framing bits but including FCS octets).


etherStatsEntry
etherStatsIndex
etherStatsDataSource
etherStatsDropEvents
etherStatsOctets
etherStatsPkts
etherStatsBroadcastPkts
etherStatsMulticastPkts
etherStatsCRCAlignErrors
etherStatsUndersizePkts
etherStatsOversizePkts
etherStatsFragments
etherStatsJabbers
etherStatsCollisions
etherStatsPkts64Octets
etherStatsPkts65to127Octets
etherStatsPkts128to255Octets
etherStatsPkts256to511Octets
etherStatsPkts512to1023Octets
etherStatsPkts1024to1518Octets
etherStatsOwner
etherStatsStatus
Object name etherStatsPkts256to511Octets
Object ID 1.3.6.1.2.1.16.1.1.1.17
Module RMON-MIB
Base syntax Counter
Composed syntax Counter32
Access Read-Only
Status Current
Parent node etherStatsEntry
First child None
Description The total number of packets (including bad packets) received that were between 256 and 511 octets in length inclusive (excluding framing bits but including FCS octets).


etherStatsEntry
etherStatsIndex
etherStatsDataSource
etherStatsDropEvents
etherStatsOctets
etherStatsPkts
etherStatsBroadcastPkts
etherStatsMulticastPkts
etherStatsCRCAlignErrors
etherStatsUndersizePkts
etherStatsOversizePkts
etherStatsFragments
etherStatsJabbers
etherStatsCollisions
etherStatsPkts64Octets
etherStatsPkts65to127Octets
etherStatsPkts128to255Octets
etherStatsPkts256to511Octets
etherStatsPkts512to1023Octets
etherStatsPkts1024to1518Octets
etherStatsOwner
etherStatsStatus
Object name etherStatsPkts512to1023Octets
Object ID 1.3.6.1.2.1.16.1.1.1.18
Module RMON-MIB
Base syntax Counter
Composed syntax Counter32
Access Read-Only
Status Current
Parent node etherStatsEntry
First child None
Description The total number of packets (including bad packets) received that were between 512 and 1023 octets in length inclusive (excluding framing bits but including FCS octets).


etherStatsEntry
etherStatsIndex
etherStatsDataSource
etherStatsDropEvents
etherStatsOctets
etherStatsPkts
etherStatsBroadcastPkts
etherStatsMulticastPkts
etherStatsCRCAlignErrors
etherStatsUndersizePkts
etherStatsOversizePkts
etherStatsFragments
etherStatsJabbers
etherStatsCollisions
etherStatsPkts64Octets
etherStatsPkts65to127Octets
etherStatsPkts128to255Octets
etherStatsPkts256to511Octets
etherStatsPkts512to1023Octets
etherStatsPkts1024to1518Octets
etherStatsOwner
etherStatsStatus
Object name etherStatsPkts1024to1518Octets
Object ID 1.3.6.1.2.1.16.1.1.1.19
Module RMON-MIB
Base syntax Counter
Composed syntax Counter32
Access Read-Only
Status Current
Parent node etherStatsEntry
First child None
Description The total number of packets (including bad packets) received that were between 1024 and 1518 octets in length inclusive (excluding framing bits but including FCS octets).


etherStatsEntry
etherStatsIndex
etherStatsDataSource
etherStatsDropEvents
etherStatsOctets
etherStatsPkts
etherStatsBroadcastPkts
etherStatsMulticastPkts
etherStatsCRCAlignErrors
etherStatsUndersizePkts
etherStatsOversizePkts
etherStatsFragments
etherStatsJabbers
etherStatsCollisions
etherStatsPkts64Octets
etherStatsPkts65to127Octets
etherStatsPkts128to255Octets
etherStatsPkts256to511Octets
etherStatsPkts512to1023Octets
etherStatsPkts1024to1518Octets
etherStatsOwner
etherStatsStatus
Object name etherStatsOwner
Object ID 1.3.6.1.2.1.16.1.1.1.20
Module RMON-MIB
Base syntax Octet String
Composed syntax OwnerString
Access Read-Create
Status Current
Value list 1 : 0..127
Parent node etherStatsEntry
First child None
Description The entity that configured this entry and is therefore using the resources assigned to it.


etherStatsEntry
etherStatsIndex
etherStatsDataSource
etherStatsDropEvents
etherStatsOctets
etherStatsPkts
etherStatsBroadcastPkts
etherStatsMulticastPkts
etherStatsCRCAlignErrors
etherStatsUndersizePkts
etherStatsOversizePkts
etherStatsFragments
etherStatsJabbers
etherStatsCollisions
etherStatsPkts64Octets
etherStatsPkts65to127Octets
etherStatsPkts128to255Octets
etherStatsPkts256to511Octets
etherStatsPkts512to1023Octets
etherStatsPkts1024to1518Octets
etherStatsOwner
etherStatsStatus
Object name etherStatsStatus
Object ID 1.3.6.1.2.1.16.1.1.1.21
Module RMON-MIB
Base syntax Integer
Composed syntax EntryStatus
Access Read-Create
Status Current
Value list 1 : valid(1)
2 : createRequest(2)
3 : underCreation(3)
4 : invalid(4)
Parent node etherStatsEntry
First child None
Description The status of this etherStats entry.