

How to view packet statistics with RMON on DGS-3100 via

Net-SNMP

Example

Show packet status of all ports

```
#snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.2.1.16.1.1.1.5
```

Object name	etherStatsEntry
Object ID	1.3.6.1.2.1.16.1.1.1
Module	RMON-MIB
Base syntax	Sequence
Access	Not_Accessible
Status	Current
Index	1.etherStatsIndex
Parent node	etherStatsTable
First child	etherStatsIndex
Description	A collection of statistics kept for a particular Ethernet interface. As an example, an instance of the etherStatsPkts object might be named etherStatsPkts.1

Object name	etherStatsIndex
Object ID	1.3.6.1.2.1.16.1.1.1.1
Module	RMON-MIB
Base syntax	Integer
Composed syntax	Integer32
Access	Read-Only
Status	Current
Value list	1 : 1.65535
Parent node	etherStatsEntry
First child	None
Description	The value of this object uniquely identifies this etherStatsEntry.

<ul style="list-style-type: none"> etherStatsEntry <ul style="list-style-type: none"> etherStatsIndex etherStatsDataSource etherStatsDropEvents etherStatsOctets etherStatsPkts etherStatsBroadcastPkts etherStatsMulticastPkts etherStatsCRCAlignErrors etherStatsUndersizePkts etherStatsOversizePkts etherStatsFragments etherStatsJabbers etherStatsCollisions etherStatsPkts64Octets etherStatsPkts65to127Octets etherStatsPkts128to255Octets etherStatsPkts256to511Octets etherStatsPkts512to1023Octets etherStatsPkts1024to15180Octets etherStatsOwner etherStatsStatus history <ul style="list-style-type: none"> historyControlTable <ul style="list-style-type: none"> historyControlEntry <ul style="list-style-type: none"> historyControlIndex historyControlDataSource historyControlBucketsRequested historyControlBucketsGranted historyControlInterval historyControlOwner historyControlStatus etherHistoryTable <ul style="list-style-type: none"> etherHistoryEntry <ul style="list-style-type: none"> etherHistoryIndex 	<table border="0"> <tr><td>Object name</td><td>etherStatsDataSource</td></tr> <tr><td>Object ID</td><td>1.3.6.1.2.1.16.1.1.1.2</td></tr> <tr><td>Module</td><td>RMON-MIB</td></tr> <tr><td colspan="2"> </td></tr> <tr><td>Base syntax</td><td>Object Identifier</td></tr> <tr><td>Composed syntax</td><td>OBJECT IDENTIFIER</td></tr> <tr><td>Access</td><td>Read-Create</td></tr> <tr><td>Status</td><td>Current</td></tr> <tr><td colspan="2"> </td></tr> <tr><td>Parent node</td><td>etherStatsEntry</td></tr> <tr><td>First child</td><td>None</td></tr> <tr><td>Description</td><td>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).</td></tr> </table>	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).
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Object name	etherStatsOctets																										
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Module	RMON-MIB																										
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Object name	etherStatsPkts																				
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Object name	etherStatsBroadcastPkts																				
Object ID	1.3.6.1.2.1.16.1.1.1.6																				
Module	RMON-MIB																				
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Object name	etherStatsMulticastPkts																				
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First child	None																				
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<ul style="list-style-type: none"> etherStatsEntry etherStatsIndex etherStatsDataSource etherStatsDropEvents etherStatsOctets etherStatsPkts etherStatsBroadcastPkts etherStatsMulticastPkts etherStatsCRCAlignErrors etherStatsUndersizePkts etherStatsOversizePkts etherStatsFragments etherStatsJabbers etherStatsCollisions etherStatsPkts64to127Octets etherStatsPkts128to255Octets etherStatsPkts256to511Octets etherStatsPkts512to1023Octets etherStatsPkts1024to1518Octets etherStatsOwner etherStatsStatus 	<table border="0"> <tr><td>Object name</td><td>etherStatsFragments</td></tr> <tr><td>Object ID</td><td>1.3.6.1.2.1.16.1.1.1.11</td></tr> <tr><td>Module</td><td>RMON-MIB</td></tr> <tr><td>Base syntax</td><td>Counter</td></tr> <tr><td>Composed syntax</td><td>Counter32</td></tr> <tr><td>Access</td><td>Read-Only</td></tr> <tr><td>Status</td><td>Current</td></tr> <tr><td>Parent node</td><td>etherStatsEntry</td></tr> <tr><td>First child</td><td>None</td></tr> <tr><td>Description</td><td>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).</td></tr> <tr><td></td><td>Note that it is entirely normal for etherStatsFragments to increment. This is because it counts both runs (which are normal occurrences due to collisions) and noise hits.</td></tr> </table>	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 runs (which are normal occurrences due to collisions) and noise hits.
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).																						
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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).																						
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<ul style="list-style-type: none"> etherStatsEntry <ul style="list-style-type: none"> etherStatsIndex etherStatsDataSource etherStatsDropEvents etherStatsOctets etherStatsPkts etherStatsBroadcastPkts etherStatsMulticastPkts etherStatsCRCAlignErrors etherStatsUndersizePkts etherStatsOversizePkts etherStatsFragments etherStatsJabbers etherStatsCollisions etherStatsPkts64Octets etherStatsPkts65to127Octets etherStatsPkts128to255Octets etherStatsPkts256to511Octets etherStatsPkts512to1023Octets etherStatsPkts1024to1518Octets etherStatsOwner etherStatsStatus history <ul style="list-style-type: none"> historyControlTable <ul style="list-style-type: none"> historyControlEntry <ul style="list-style-type: none"> historyControlIndex historyControlDataSource historyControlBucketsRequested historyControlBucketsGranted historyControlInterval historyControlOwner historyControlStatus etherHistoryTable <ul style="list-style-type: none"> etherHistoryEntry <ul style="list-style-type: none"> etherHistoryIndex etherHistorySampleIndex etherHistoryIntervalStart etherHistoryDropEvents etherHistoryOctets etherHistoryPkts 	<table border="0"> <tr><td>Object name</td><td>etherStatsCollisions</td></tr> <tr><td>Object ID</td><td>1.3.6.1.2.1.16.1.1.1.13</td></tr> <tr><td>Module</td><td>RMON-MIB</td></tr> <tr><td>Base syntax</td><td>Counter</td></tr> <tr><td>Composed syntax</td><td>Counter32</td></tr> <tr><td>Access</td><td>Read-Only</td></tr> <tr><td>Status</td><td>Current</td></tr> <tr><td>Parent node</td><td>etherStatsEntry</td></tr> <tr><td>First child</td><td>None</td></tr> <tr><td>Description</td><td>The best estimate of the total number of collisions on this Ethernet segment.</td></tr> <tr><td></td><td> </td></tr> <tr><td></td><td>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.</td></tr> <tr><td></td><td> </td></tr> <tr><td></td><td>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.</td></tr> <tr><td></td><td> </td></tr> <tr><td></td><td>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.</td></tr> </table>	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.
Object name	etherStatsCollisions																																
Object ID	1.3.6.1.2.1.16.1.1.1.13																																
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<ul style="list-style-type: none"> etherStatsEntry <ul style="list-style-type: none"> etherStatsIndex etherStatsDataSource etherStatsDropEvents etherStatsOctets etherStatsPkts etherStatsBroadcastPkts etherStatsMulticastPkts etherStatsCRCAlignErrors etherStatsUndersizePkts etherStatsOversizePkts etherStatsFragments etherStatsJabbers etherStatsCollisions etherStatsPkts64Octets etherStatsPkts65to127Octets etherStatsPkts128to255Octets etherStatsPkts256to511Octets etherStatsPkts512to1023Octets etherStatsPkts1024to1518Octets etherStatsOwner etherStatsStatus 	<table border="0"> <tr><td>Object name</td><td>etherStatsPkts64Octets</td></tr> <tr><td>Object ID</td><td>1.3.6.1.2.1.16.1.1.1.14</td></tr> <tr><td>Module</td><td>RMON-MIB</td></tr> <tr><td>Base syntax</td><td>Counter</td></tr> <tr><td>Composed syntax</td><td>Counter32</td></tr> <tr><td>Access</td><td>Read-Only</td></tr> <tr><td>Status</td><td>Current</td></tr> <tr><td>Parent node</td><td>etherStatsEntry</td></tr> <tr><td>First child</td><td>None</td></tr> <tr><td>Description</td><td>The total number of packets (including bad packets) received that were 64 octets in length (excluding framing bits but including FCS octets).</td></tr> </table>	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).
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).																				

<ul style="list-style-type: none"> 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).

<ul style="list-style-type: none"> 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).

<ul style="list-style-type: none"> 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).

<ul style="list-style-type: none"> 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).

<ul style="list-style-type: none"> 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).

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