



SNMP Common OID Information

DN-651154 & DN-651155

DN-651156 & DN-651157

DN-651158 & DN-651159

DN-651160 & DN-651161

Port number: ifNumber, Number of switch ports, OID:
1.3.6.1.2.1.2.1

The screenshot shows the MIB browser interface for a remote SNMP agent at 192.168.10.12. The MIB tree on the left highlights the `ifNumber` node under `interfaces`. The query results pane shows a single entry: `1: ifNumber.0 (integer) 10`. A red box highlights this entry. The `MIB Node Properties - ifNumber` dialog is open, showing the following details:

- Module: RFC1213-MIB
- Name: ifNumber
- Type: OBJECT-TYPE
- OID: 1.3.6.1.2.1.2.1
- Full path: iso(1) org(3) dod(6) internet(1) mgmt(2) mib-2(1) interfaces(2) ifNumber(1)
- Module: RFC1213-MIB
- Parent: interfaces
- Next sibling: ifTable
- Numerical syntax: Integer (32 bit)
- Base syntax: INTEGER
- Composed syntax: INTEGER
- Status: mandatory
- Max access: read-only
- Description: The number of network interfaces (regardless of

Port configuration status: ifAdminStatus, whether the port is
enabled or disabled, OID: 1.3.6.1.2.1.2.2.1.7

The screenshot shows the MIB browser interface for a remote SNMP agent at 192.168.10.12. The MIB tree on the left highlights the `ifAdminStatus` node under `ifEntry`. The query results pane shows ten entries: `1: ifAdminStatus.1 (integer) up(1)` through `10: ifAdminStatus.10 (integer) up(1)`. A red box highlights these entries. The `MIB Node Properties - ifAdminStatus` dialog is open, showing the following details:

- Module: RFC1213-MIB
- Name: ifAdminStatus
- Type: OBJECT-TYPE
- OID: 1.3.6.1.2.1.2.2.1.7
- Full path: iso(1) org(3) dod(6) internet(1) mgmt(2) mib-2(1) interfaces(2) ifTable(2) ifEntry(1) ifAdminStatus(7)
- Module: RFC1213-MIB
- Parent: ifEntry
- Prev sibling: ifPhysAddress
- Next sibling: ifOperStatus
- Numerical syntax: Integer (32 bit)
- Base syntax: INTEGER
- Composed syntax: INTEGER
- Status: mandatory
- Max access: read-write
- Value list: 1: up(1)

The operational status of the port: ifOperStatus, the port currently up or down, OID: 1.3.6.1.2.1.2.2.1.8

The screenshot shows the MIB tree on the left with 'ifOperStatus' highlighted. The 'Query results' window on the right displays a list of 10 entries for ifOperStatus, with a red box around the list. A red annotation next to it states: 'port 2 is connected to PC, other ports are unconnected'. Below the query results is the 'MIB Node Properties - ifOperStatus' window, which shows the OID '1.3.6.1.2.1.2.2.1.8' highlighted in red.

OID	Value
1: ifOperStatus.1	(integer) down(2)
2: ifOperStatus.2	(integer) up(1)
3: ifOperStatus.3	(integer) down(2)
4: ifOperStatus.4	(integer) down(2)
5: ifOperStatus.5	(integer) down(2)
6: ifOperStatus.6	(integer) down(2)
7: ifOperStatus.7	(integer) down(2)
8: ifOperStatus.8	(integer) down(2)
9: ifOperStatus.9	(integer) down(2)
10: ifOperStatus.10	(integer) down(2)

port 2 is connected to PC, other ports are unconnected

Module: RFC1213-MIB
Name: ifOperStatus
Type: OBJECT-TYPE
OID: 1.3.6.1.2.1.2.2.1.8
Full path: iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).interfaces(2).ifTable(2).ifEntry(1).ifOperStatus(8)
Module: RFC1213-MIB
Parent: ifEntry
Prev sibling: ifAdminStatus
Next sibling: ifLastChange

The number of bytes input by the interface: ifInOctets, OID: 1.3.6.1.2.1.2.2.1.10

The screenshot shows the MIB tree on the left with 'ifInOctets' highlighted. The 'Query results' window on the right displays a list of 10 entries for ifInOctets, with a red box around the list. Below the query results is the 'MIB Node Properties - ifInOctets' window, which shows the OID '1.3.6.1.2.1.2.2.1.10' highlighted in red.

OID	Value
1: ifInOctets.1	(counter) 0
2: ifInOctets.2	(counter) 1934022
3: ifInOctets.3	(counter) 0
4: ifInOctets.4	(counter) 0
5: ifInOctets.5	(counter) 0
6: ifInOctets.6	(counter) 0
7: ifInOctets.7	(counter) 0
8: ifInOctets.8	(counter) 0
9: ifInOctets.9	(counter) 0
10: ifInOctets.10	(counter) 0

Module: RFC1213-MIB
Name: ifInOctets
Type: OBJECT-TYPE
OID: 1.3.6.1.2.1.2.2.1.10
Full path: iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).interfaces(2).ifTable(2).ifEntry(1).ifInOctets(10)
Module: RFC1213-MIB
Parent: ifEntry
Prev sibling: ifLastChange
Next sibling: ifInUcastPkts
Numerical syntax: Counter (32 bit)
Base syntax: Counter
Composed syntax: Counter

The number of bytes output by the interface: ifOutOctets, OID: 1.3.6.1.2.1.2.2.1.16

The screenshot shows a network management interface with a MIB tree on the left and query results on the right. The MIB tree is expanded to show the path: org > dod > internet > directory > mgmt > mib-2 > system > interfaces > ifTable > ifEntry > ifOutOctets. The ifOutOctets node is highlighted with a red box. The query results window shows a list of 10 ifOutOctets objects, with the second object (OID: 1.3.6.1.2.1.2.2.1.16) having a value of 4165774. A red box highlights the first two lines of the query results: "1: ifOutOctets.1 (counter) 0" and "2: ifOutOctets.2 (counter) 4165774".

Remote SNMP agent
192.168.10.12

MIB tree

Query results

```
***** SNMP QUERY STARTED *****
1: ifOutOctets.1 (counter) 0
2: ifOutOctets.2 (counter) 4165774
3: ifOutOctets.3 (counter) 0
4: ifOutOctets.4 (counter) 0
5: ifOutOctets.5 (counter) 0
6: ifOutOctets.6 (counter) 0
7: ifOutOctets.7 (counter) 0
8: ifOutOctets.8 (counter) 0
9: ifOutOctets.9 (counter) 0
10: ifOutOctets.10 (counter) 0
***** SNMP QUERY FINISHED *****
```

MIB Node Properties - ifOutOctets

Module: RFC1213-MIB

Name: ifOutOctets
Type: OBJECT-TYPE
OID: 1.3.6.1.2.1.2.2.1.16
Full path: iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).interfaces(2).ifTable(2).ifEntry(1).ifOutOctets(16)
Module: RFC1213-MIB

Parent: ifEntry
Prev sibling: ifInUnknownProtos
Next sibling: ifOutUcastPkts

Numerical syntax: Counter (32 bit)
Base syntax: Counter
Composed syntax: Counter

Receive error message: ifInErrors, OID: 1.3.6.1.2.1.2.2.1.14

The screenshot shows a network management interface with a MIB tree on the left and query results on the right. The MIB tree is expanded to show the path: mib-2 > system > interfaces > ifTable > ifEntry > ifInErrors. The ifInErrors node is highlighted with a red box. The query results window shows a list of 6 ifInErrors objects, all with a value of 0. A red box highlights the first two lines of the query results: "1: ifInErrors.1 (counter) 0" and "2: ifInErrors.2 (counter) 0".

Remote SNMP agent
192.168.10.12

MIB tree

Query results

```
***** SNMP QUERY STARTED *****
1: ifInErrors.1 (counter) 0
2: ifInErrors.2 (counter) 0
3: ifInErrors.3 (counter) 0
4: ifInErrors.4 (counter) 0
5: ifInErrors.5 (counter) 0
6: ifInErrors.6 (counter) 0
***** SNMP QUERY FINISHED *****
```

MIB Node Properties - ifInErrors

Module: RFC1213-MIB

Name: ifInErrors
Type: OBJECT-TYPE
OID: 1.3.6.1.2.1.2.2.1.14
Full path: iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).interfaces(2).ifTable(2).ifEntry(1).ifInErrors(14)
Module: RFC1213-MIB

Parent: ifEntry
Prev sibling: ifInDiscards
Next sibling: ifInUnknownProtos

Numerical syntax: Counter (32 bit)

Send error message: ifOutErrors, OID: 1.3.6.1.2.1.2.2.1.20

The screenshot shows the MIB Browser interface. On the left, the MIB tree is expanded to 'ifOutErrors', which is highlighted with a red box. On the right, the 'Query results' pane shows the output of an SNMP query for the ifOutErrors OID, listing six counters (1-6) all with a value of 0. A 'MIB Node Properties - ifOutErrors' dialog box is open, showing the OID '1.3.6.1.2.1.2.2.1.20' highlighted with a red box. The dialog also shows the full path: 'iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).interfaces(2).ifTable(2).ifEntry(1).ifOutErrors(20)'.

System startup time: 1.3.6.1.2.1.1.3.0

The screenshot shows the MIB Browser interface. On the left, the MIB tree is expanded to 'sysUpTime', which is highlighted with a red box. A dialog box titled 'Prompt For OID - 192.168.10.1.sysUpTime.0' is open, showing the OID '1.3.6.1.2.1.1.3.0' highlighted with a red box. The dialog also shows the full path: 'iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).system(1).sysUpTime(0)'. The 'Query results' pane shows the output of an SNMP query for the sysUpTime OID, listing the value '1 days 15h 46m 26s 369n (14318639)' highlighted with a red box.

Port speed: ifSpeed, OID: 1.3.6.1.2.1.2.2.1.5.0

MG-SOFT MIB Browser Professional SNMPv3 Edition

Query: MIB Ping
Remote SNMP agent: 192.168.10.1
SgR: Vertical

MIB tree

- system
 - sysDescr
 - sysObjectID
 - sysUpTime
 - sysContact
 - sysName
 - sysLocation
 - sysServices
 - sysDLSetChange
 - sysORTable
 - interfaces
 - Number
 - ifTable
 - ifEntry
 - ifIndex
 - ifDescr
 - ifType
 - ifSpeed**

Query results

```
----- SNMP QUERY STARTED -----  
1: ifSpeed.1 (page) 100000000  
2: ifSpeed.2 (page) 100000000  
3: ifSpeed.3 (page) 100000000  
4: ifSpeed.4 (page) 100000000  
5: ifSpeed.5 (page) 100000000  
6: ifSpeed.6 (page) 100000000  
----- SNMP QUERY FINISHED -----
```

Query agent 192.168.10.1 finished.

Port MAC address: ifPhysAddress, OID: 1.3.6.1.2.1.2.2.1.6.0

MG-SOFT MIB Browser Professional SNMPv3 Edition

Query: MIB Ping
Remote SNMP agent: 192.168.10.1
SgR: Vertical

MIB tree

- sysLocation
- sysServices
- sysDLSetChange
- sysORTable
- interfaces
 - Number
 - ifTable
 - ifEntry
 - ifIndex
 - ifDescr
 - ifType
 - ifMtu
 - ifPhysAddress**
 - ifOperStatus
 - ifLastChange
 - ifInOctets
 - ifHCastPkts

Query results

```
----- SNMP QUERY STARTED -----  
1: ifPhysAddress.1 (octet string) AC:30:00:44:56:32:AC:30:00:44:56:32 (hex)  
2: ifPhysAddress.2 (octet string) AC:30:00:44:56:33:AC:30:00:44:56:33 (hex)  
3: ifPhysAddress.3 (octet string) AC:30:00:44:56:34:AC:30:00:44:56:34 (hex)  
4: ifPhysAddress.4 (octet string) AC:30:00:44:56:35:AC:30:00:44:56:35 (hex)  
5: ifPhysAddress.5 (octet string) AC:30:00:44:56:36:AC:30:00:44:56:36 (hex)  
6: ifPhysAddress.6 (octet string) AC:30:00:44:56:37:AC:30:00:44:56:37 (hex)  
----- SNMP QUERY FINISHED -----
```

Query agent 192.168.10.1 finished.

Port status: ifOperStatus, OID: 1.3.6.1.2.1.2.2.1.8.0

The screenshot shows the MG-SOFT MIB Browser Professional SNMPv3 Edition interface. The MIB tree on the left is expanded to the 'ifTable' node, where 'ifOperStatus' is highlighted with a red box. A dialog box titled 'Prompt for OID - 192.168.10.1:ifOperStatus.0' is open, showing the OID '1.3.6.1.2.1.2.2.1.8.0' entered in the 'OID' field. The 'Query results' pane at the bottom displays the following output:

```
----- SNMP QUERY STARTED -----  
1. ifOperStatus.1 (integer) up(1)  
2. ifOperStatus.2 (integer) down(2)  
3. ifOperStatus.3 (integer) down(2)  
4. ifOperStatus.4 (integer) down(2)  
5. ifOperStatus.5 (integer) down(2)  
6. ifOperStatus.6 (integer) down(2)  
----- SNMP QUERY FINISHED -----
```

ARP table: atPhysAddress, OID: 1.3.6.1.2.1.3.1.1.2.0

The screenshot shows the MG-SOFT MIB Browser Professional SNMPv3 Edition interface. The MIB tree on the left is expanded to the 'atTable' node, where 'atPhysAddress' is highlighted with a red box. A dialog box titled 'Prompt for OID - 192.168.10.1:atPhysAddress.0' is open, showing the OID '1.3.6.1.2.1.3.1.1.2.0' entered in the 'OID' field. The 'Query results' pane at the bottom displays the following output:

```
----- SNMP QUERY STARTED -----  
1. atPhysAddress.1 (octet string) 00:20:9E:F8:93:F5 (00:20:9E:F8:93:F5 [hex])  
2. atPhysAddress.2 (octet string) 90:78:9D:AC:68:D0 (90:78:9D:AC:68:D0 [hex])  
----- SNMP QUERY FINISHED -----
```

Basic System Information: sysDescr, OID: 1.3.6.1.2.1.1.1.0

MG-SOFT MIB Browser Professional SNMPv3 Edition

Query: MIB Ping
Remote SNMP agent: 192.168.10.1
SgR: Vertical

MIB tree

- Internet
 - directory
 - mgmt
 - mb-2
 - system
 - sysDescr
 - sysObjectID
 - sysUpTime
 - sysName
 - sysLocation
 - sysServices
 - sysURLLastChange
 - sysORTable

Prompt For OID - 192.168.10.1:sysDescr.0

Remote SNMP agent: 192.168.10.1

OID: 1.3.6.1.2.1.1.1.0

Log only responses
 Log response marker
 Reuse result OID
 Close after response is received

Close

Query results

Remote address: 192.168.10.1 port: 161 transport: IP/UDP
Local address: 192.168.117.225 port: 60051 transport: IP/UDP
Physical version: SNMPv2c
Operator: Get
Request binding:
1: sysDescr.0 [oid string]

Response binding:
1: sysDescr.0 [oid string] Linux Switch 3 18 24 #147 Fri Jan 14 11:12:34 CST 2022 mips [4C:68:6E:75:78:20:53:77:69:74:63:68:20:33:2E:31:38:2E:32:34:20:23:31:34:37:20:46:72:69:20:4A:61:6E:20:31:34:20:31:31:3A:31:32:3A:33:34:20:43:53:64:20:32:30:32:32:20:6D:69:70:73 (hex)]

Query agent 192.168.10.1 finished.

System name: sysName, OID: 1.3.6.1.2.1.1.5.0

MG-SOFT MIB Browser Professional SNMPv3 Edition

Query: MIB Ping
Remote SNMP agent: 192.168.10.1
SgR: Vertical

MIB tree

- Internet
 - directory
 - mgmt
 - mb-2
 - system
 - sysDescr
 - sysObjectID
 - sysUpTime
 - sysName
 - sysLocation
 - sysServices
 - sysURLLastChange
 - sysORTable

Prompt For OID - 192.168.10.1:sysName.0

Remote SNMP agent: 192.168.10.1

OID: 1.3.6.1.2.1.1.5.0

Log only responses
 Log response marker
 Reuse result OID
 Close after response is received

Close

Query results

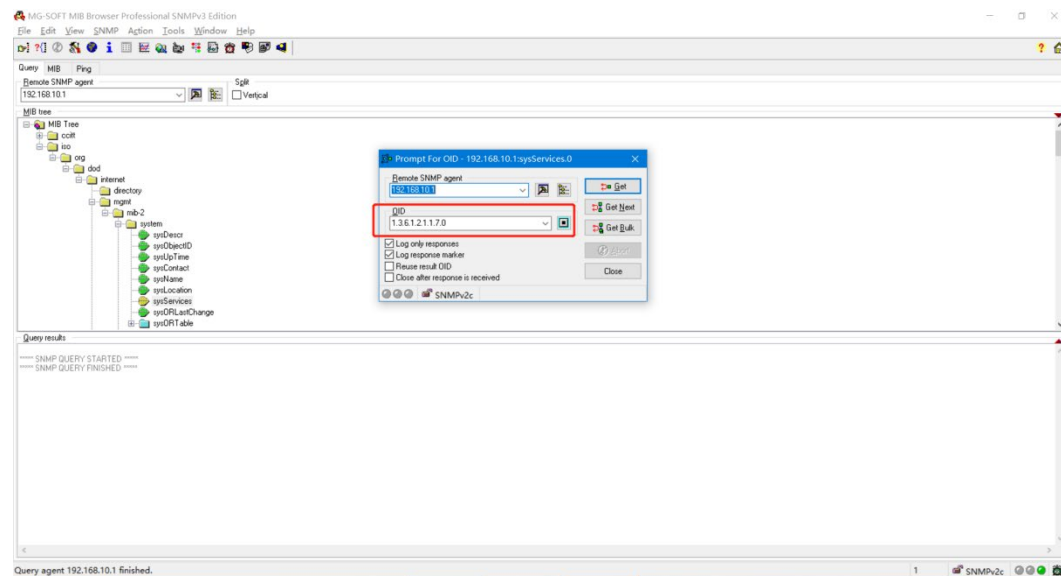
SNMP QUERY STARTED

1: sysName.0 [oid string] System Name [53:78:73:74:65:6D:20:4E:61:6D:65 (hex)]

SNMP QUERY FINISHED

Query agent 192.168.10.1 finished.

System services: sysServices, OID: 1.3.6.1.2.1.1.70



If you have further MIB (Management Information Base) file request, which is not available in current list.

Please send your request to ASSMANN by e-mail info@assmann.com

Hereby Assmann Electronic GmbH declares that the Declaration of Conformity is part of the shipping content. If the Declaration of Conformity is missing, you can request it by post under the below mentioned manufacturer address

info@assmann.com

ASSMANN Electronic GmbH
Auf dem Schüffel 3
58513 Lüdenscheid
Germany



