



## **SNMP Common OID Information**

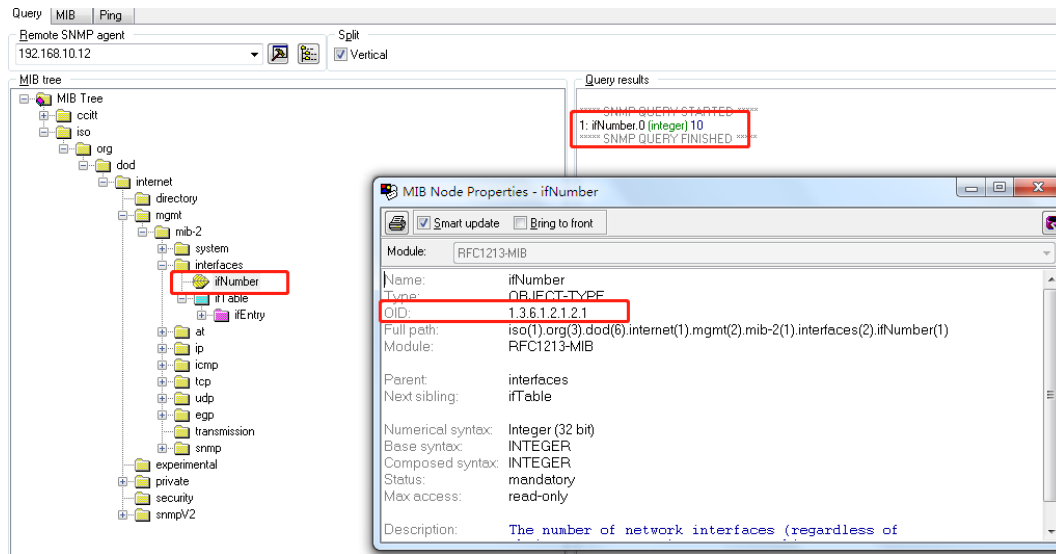
DN-651154 & DN-651155

DN-651156 & DN-651157

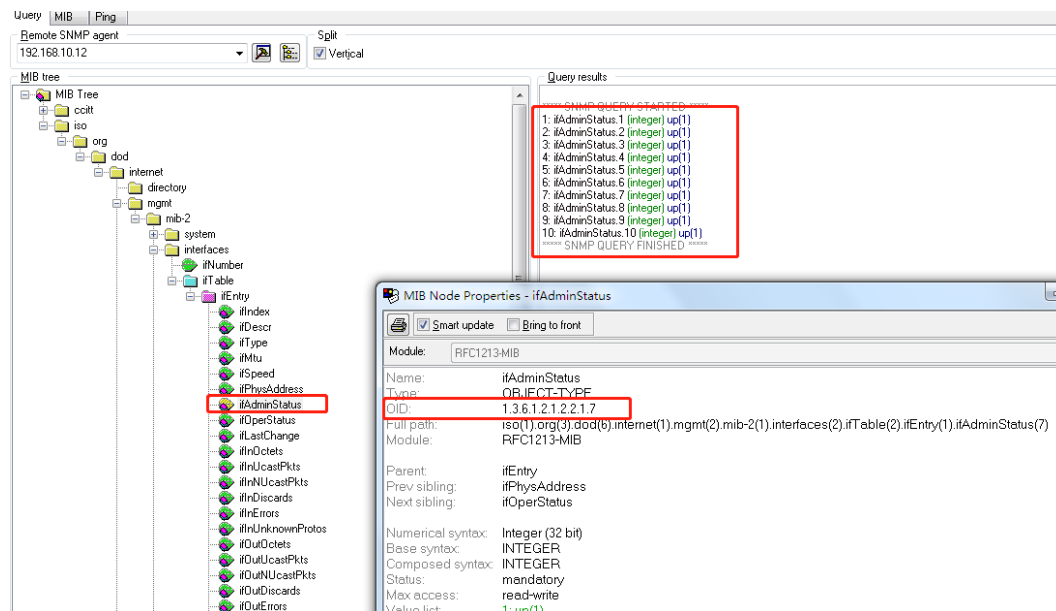
DN-651158 & DN-651159

DN-651160 & DN-651161

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



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



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 displays the following data:

```
***** SNMP QUERY STARTED *****
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)
***** SNMP QUERY FINISHED *****
```

The 'MIB Node Properties - ifOperStatus' window shows the following details:

- 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

A red box highlights the query results, and a red note states: "port 2 is connected to PC, other ports are unconnected".

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 displays the following data:

```
***** SNMP QUERY STARTED *****
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
***** SNMP QUERY FINISHED *****
```

The 'MIB Node Properties - ifInOctets' window shows the following details:

- 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 the 'Remote SNMP agent' window for IP 192.168.10.12. The MIB tree on the left highlights the path: org > internet > directory > mgmt > mib-2 > system > interfaces > ifTable > ifEntry > ifOutOctets. The 'Query results' pane shows a list of 10 counters, with the second entry, 'ifOutOctets.2 (counter) 4165774', highlighted in red. A 'MIB Node Properties - ifOutOctets' dialog box is open, showing the following details:

- 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 the 'Remote SNMP agent' window for IP 192.168.10.12. The MIB tree on the left highlights the path: mib-2 > system > interfaces > ifTable > ifEntry > ifInErrors. The 'Query results' pane shows a list of 6 counters, with the second entry, 'ifInErrors.2 (counter) 0', highlighted in red. A 'MIB Node Properties - ifInErrors' dialog box is open, showing the following details:

- 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 with the MIB tree on the left and query results on the right. The MIB tree is expanded to show the hierarchy: mib-2 > interfaces > ifTable > ifEntry > ifOutErrors. The ifOutErrors node is highlighted with a red box. A dialog box titled "MIB Node Properties - ifOutErrors" is open, showing the following details:

- Module: RFC1213-MIB
- Name: ifOutErrors
- Type: OBJECT-TYPE
- OID: 1.3.6.1.2.1.2.2.1.20 (highlighted with a red box)
- Full path: iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).interfaces(2).ifTable(2).ifEntry(1).ifOutErrors(20)
- Module: RFC1213-MIB
- Parent: ifEntry

The query results pane shows the following output:

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

## System startup time: 1.3.6.1.2.1.1.3.0

The screenshot shows the MIB Browser interface with the MIB tree on the left and query results on the right. The MIB tree is expanded to show the hierarchy: mib-2 > system > sysUpTime. The sysUpTime node is highlighted with a red box. A dialog box titled "Prompt For OID - 192.168.10.1.sysUpTime.0" is open, showing the following details:

- Remote SNMP agent: 192.168.10.1
- OID: 1.3.6.1.2.1.1.3.0 (highlighted with a red box)
- Log only responses:
- Log response marker:
- Reuse result OID:
- Close after response is received:

The query results pane shows the following output:

```
***** SNMP QUERY STARTED *****
1: sysUpTime.0 (timeticks) 1 days 15h 46m 26s 369n (14318636)
***** SNMP QUERY FINISHED *****
```

## Port speed: ifSpeed, OID: 1.3.6.1.2.1.2.2.1.5.0

The screenshot shows the MG-SOFT MIB Browser Professional SNMPv3 Edition interface. The MIB tree on the left is expanded to the `ifSpeed` node under `interfaces`. A dialog box titled "Prompt for OID - 192.168.10.1:ifSpeed.0" is open, with the "Remote SNMP agent" set to "192.168.10.1" and the "OID" set to "1.3.6.1.2.1.2.2.1.5.0". The "Log only responses" checkbox is checked. The "Query results" pane at the bottom shows the following output:

```
----- 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 -----
```

## Port MAC address: ifPhysAddress, OID: 1.3.6.1.2.1.2.2.1.6.0

The screenshot shows the MG-SOFT MIB Browser Professional SNMPv3 Edition interface. The MIB tree on the left is expanded to the `ifPhysAddress` node under `interfaces`. A dialog box titled "Prompt for OID - 192.168.10.1:ifPhysAddress.0" is open, with the "Remote SNMP agent" set to "192.168.10.1" and the "OID" set to "1.3.6.1.2.1.2.2.1.6.0". The "Log only responses" checkbox is checked. The "Query results" pane at the bottom shows the following output:

```
----- 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 -----
```

## 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, also highlighted with a red box. 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 -----
```

The status bar at the bottom indicates 'Query agent 192.168.10.1 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, also highlighted with a red box. 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.3 (octet string) 90:78:9D:AC:68:D0 (90:78:9D:AC:68:D0 [hex])  
----- SNMP QUERY FINISHED -----
```

The status bar at the bottom indicates 'Query agent 192.168.10.1 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

MIB tree: system (1.3.6.1.2.1.1.1.0)

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:

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:33:34:20:43:53:54:20:32:30:32:32:20:6D: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

MIB tree: sysName (1.3.6.1.2.1.1.5.0)

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:

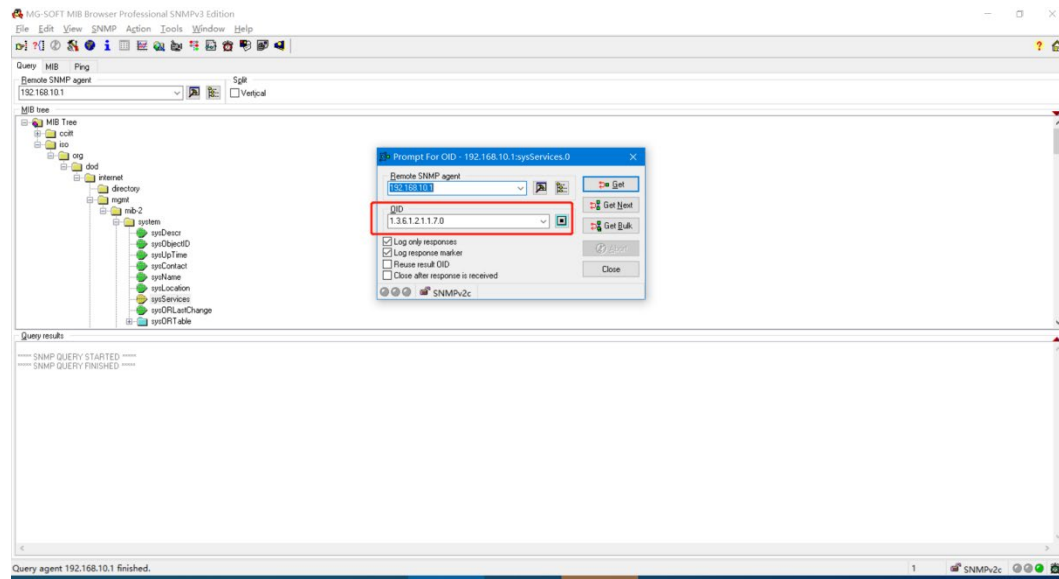
Query results:

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



## SNMP DDM OID

Module	OID (PEN default is 192)	Description	Note (R: read-only W: Writable)
DDM	.1.3.6.1.4.1.192.2.37.1.1.0	Enable switch	RW 1 is enable, 0 is disable
	.1.3.6.1.4.1.192.2.37.2.1.1.1~4	Supporting DDM optical port names (eg:X1~X4)	R
	.1.3.6.1.4.1.192.2.37.2.1.2.1~4	Tx power*100 (eg: -222 means -2.22dBm)	R
	.1.3.6.1.4.1.192.2.37.2.1.3.1~4	Rx power*100 (eg: -4000 means -40dBm)	R
	.1.3.6.1.4.1.192.2.37.2.1.4.1~4	Tx BIAS*1000 (eg:27428 means 27428mA)	R
	.1.3.6.1.4.1.192.2.37.2.1.5.1~4	Temperature (eg: 61 means 61°C)	R
	.1.3.6.1.4.1.192.2.37.2.1.6.1~4	Voltage*1000 (eg:3349 means 3.349V)	R

	.1.3.6.1.4.1.192.2.37.2.1.7.1~4	Tx power status 1: Alarm 0: Normal	<b>Reason for alarm:</b> overpower or under power, over temperature or under temperature, over voltage or under voltage.
	.1.3.6.1.4.1.192.2.37.2.1.8.1~4	Rx power status 1: Alarm 0: Normal	
	.1.3.6.1.4.1.192.2.37.2.1.9.1~4	Tx BIAS status 1: Alarm 0: Normal	
	.1.3.6.1.4.1.192.2.37.2.1.10.1~4	Temperature status 1: Alarm 0: Normal	
	.1.3.6.1.4.1.192.2.37.2.1.11.1~4	Voltage status 1: Alarm 0: Normal	

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](mailto:info@assmann.com)

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