# FAQ - SNMP explained

| Valid for: | N610 | N670 | N870 | N870E | Embedded Integrator | Virtual Integrator |
|---|---|---|---|---|---|---|

## Introduction

On this page we would like to provide more details about SNMP and how to use a freeware tool for testing.

1. Download and install the freeware tool: https://www.manageengine.com/products/mibbrowser-free-tool/
2. N670 with the IP address 192.168.178.190
3. PC has the IP address: 192.168.178.14

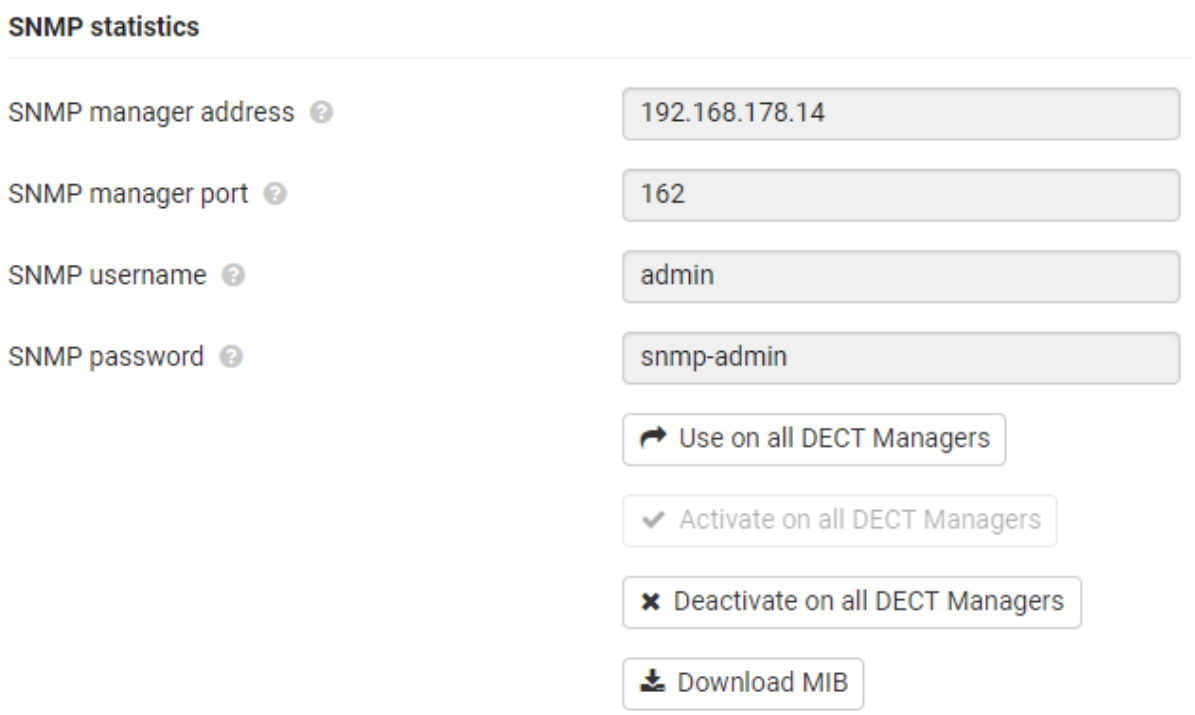
From software 2.36 SNMP is disabled when the SNMP manager address = 0.0.0.0

## Nx70 Settings

In the Nx70 web-interface go to: **SETTINGS - System - System log - SNMP statistics**

Enter the SNMP manager information, in this example my PC (192.168.178.14).

We used the default username and password.

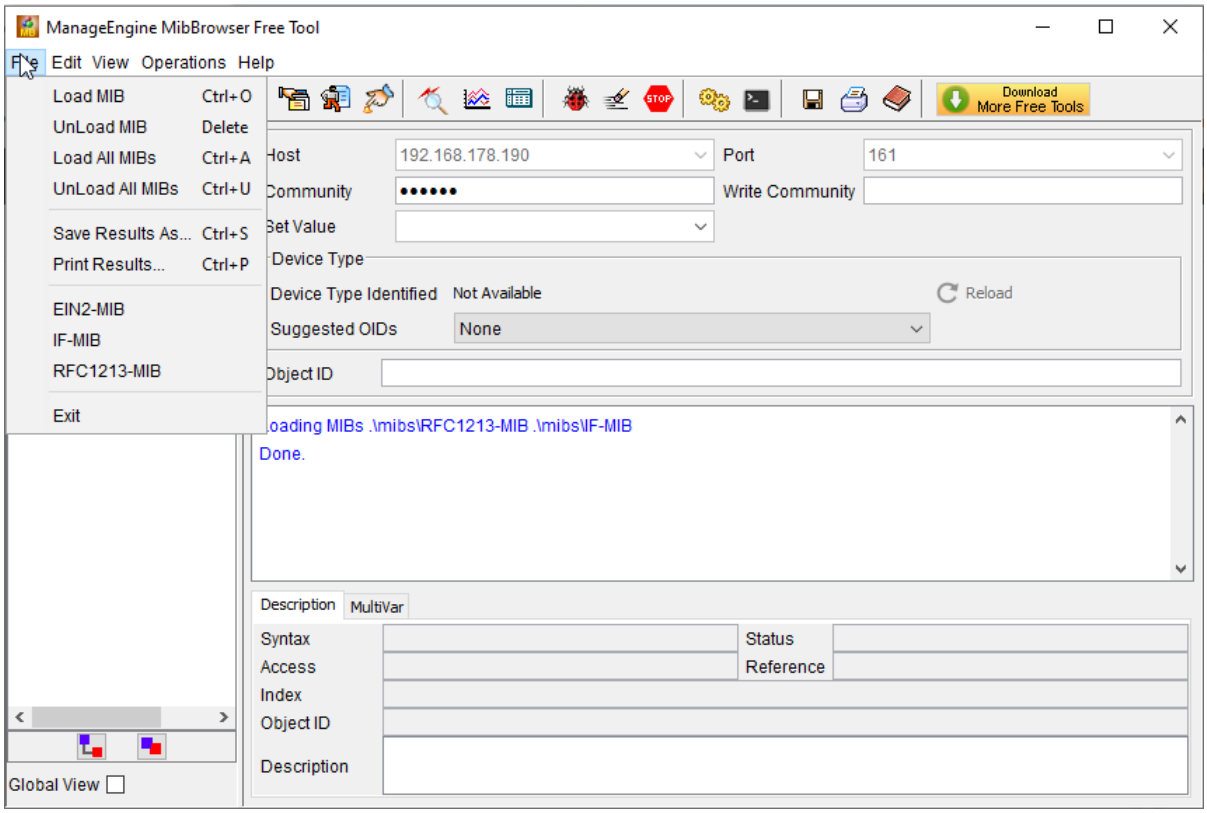



On this page you can also download the Nx70 MIB file that you can then upload on your SNMP server.

## SNMP tool settings

**Import MIB file**

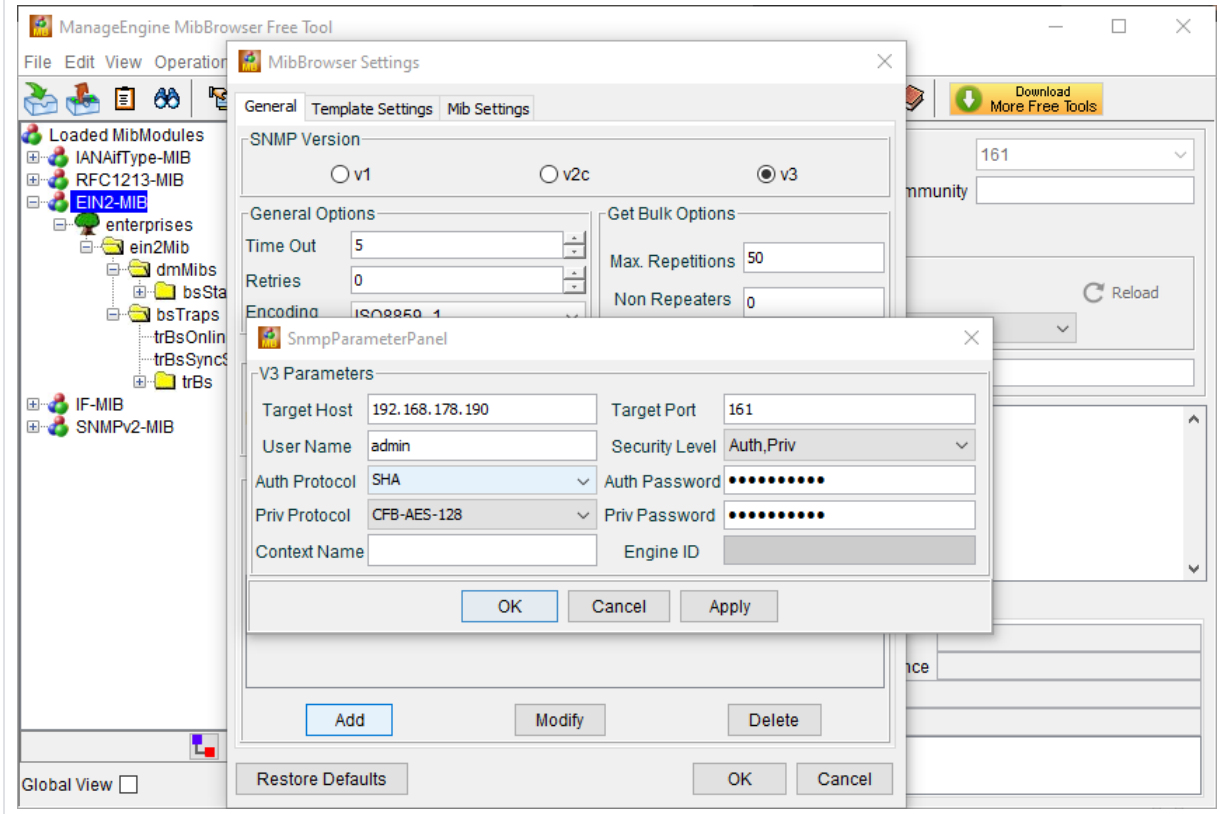
In the tool go to: File Load MIB




**Enter login credentials.**

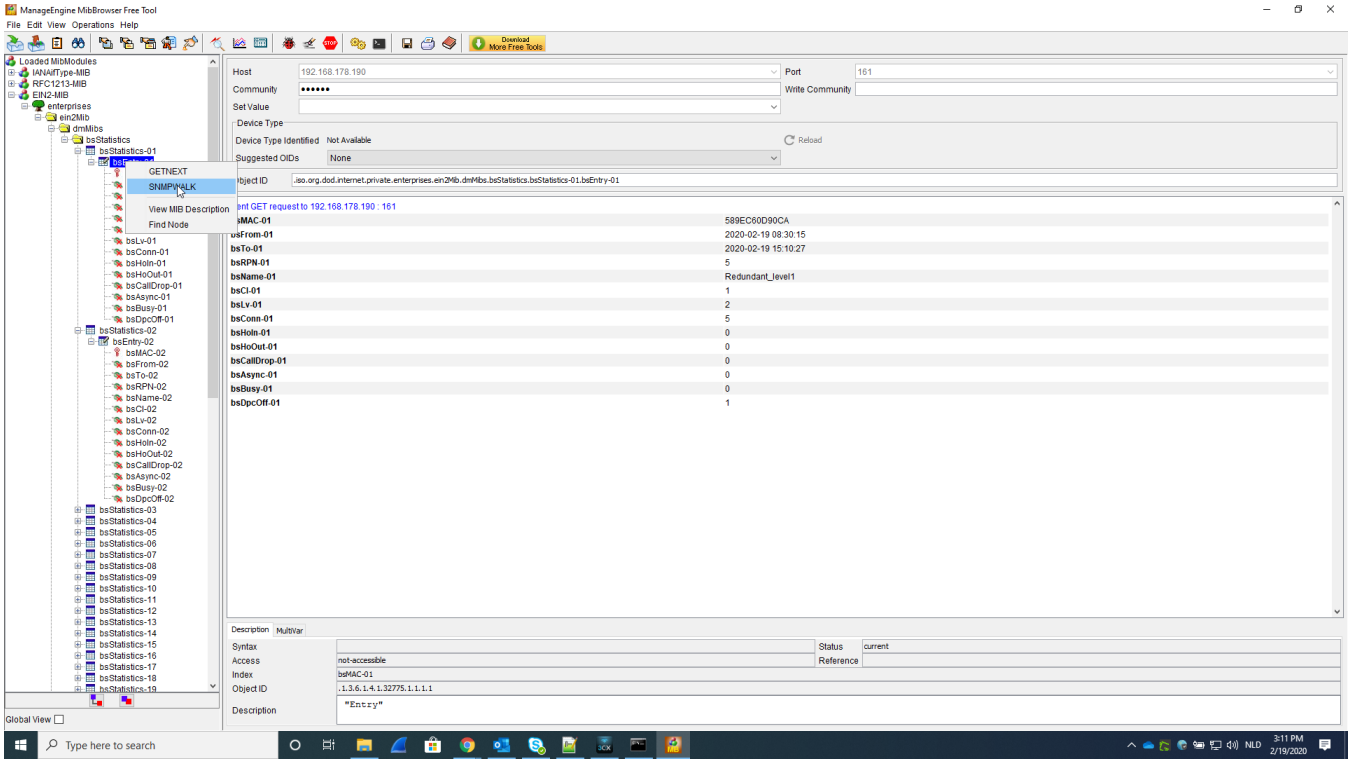
In the tool go to:

- **Edit - Settings**
- Select SNMP **v3**
- Click on **Add**
- **Target Host:** The IP address of the Nx70
- **Target port:** The port number (161)
- **Username:** The username configured in the Nx70 (admin)
- **Auth Password:** The password configured in the Nx70 (snmpadmin)
- **Priv Password:** The password configured in the Nx70 (snmpadmin)
- **Auth Protocol:** SHA
- **Priv Protocol:** CFB-AES-128


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Loaded MibModules
IANAifType-MIB
RFC1213-MIB
EIN2-MIB
enterprises
ein2Mib
dmMibs
bsSta
bsTraps
trBsOnlin
trBsSyncS
trBs
IF-MIB
SNMPv2-MIB
Global View
MibBrowser Settings
General
Template Settings
Mib Settings
SNMP Version
v1
v2c
v3
General Options
Time Out
5
Retries
0
Encoding
Get Bulk Options
Max. Repetitions
50
Non Repeaters
0
Reload
161
mmunity
SnmpParameterPanel
V3 Parameters
Target Host
192.168.178.190
Target Port
161
User Name
admin
Security Level
Auth,Priv
Auth Protocol
SHA
Auth Password
Priv Protocol
CFB-AES-128
Priv Password
Context Name
Engine ID
OK
Cancel
Apply
Add
Modify
Delete
Restore Defaults
OK
Cancel

## Read SNMP Values

- Select a base station
- **Right click** and select **SNMPWALK**
- You will get the supported SNMP values




| Supported SNMP values | Description |
|---|---|
| bsMAC-xx | MAC address of Base station |
| bsFrom-.. | BS start time when connection to DM |
| bsTo-.. | actual time of BS connection to DM |
| bsRPN-.. | RPN number |
| bsName-.. | name of BS |
| bsCl-.. | cluster level |
| bsLv-.. | sync level |
| bsConn-.. | DECT MAC layer connection setup |
| bsHoIn-.. | Handover setup in |
| bsHoOut-.. | Handover setup out |
| bsCallDrop-.. | Call Drop |
| bsAsync-.. | BS lost DECT synchronisation |
| bsBusy-.. | Single module enter in busy state |
| bsDpcOff-.. | TCP/IP connection toward base station was lost |

## SNMP Traps

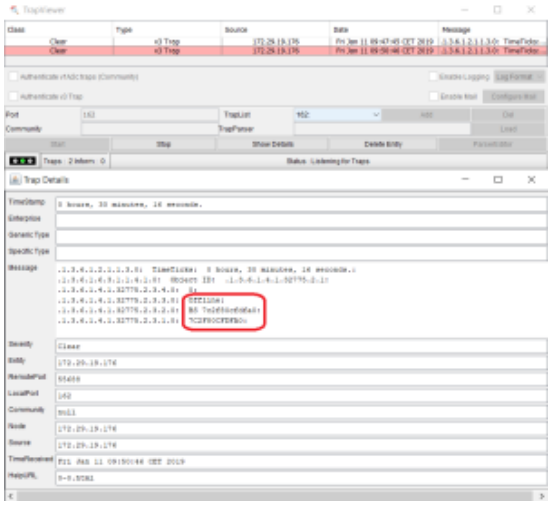
Supported traps:

- BS synchronization status trap
- BS online/offline status trap

In the tool enabled the Trap viewer (ALT + P)

As mention above, Nx70 supports two Traps:

**trBsOnlineState** (OID: .1.3.6.1.4.1.32775.2.1) triggered when BS goes offline:



**trBsSyncState** (OID: .1.3.6.1.4.1.32775.2.2) triggered when BS lost synchronization:

