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

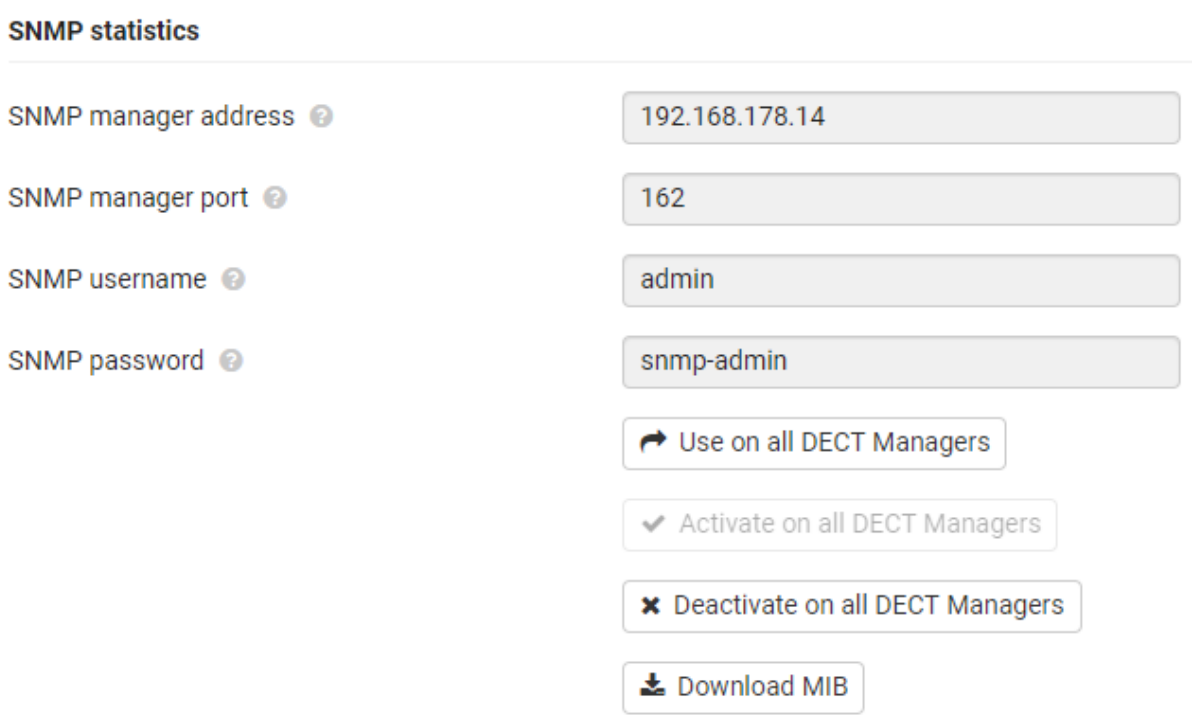
From software 2.36 SNMP is disabled when the SNMP manager address = 0.0.0.0

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.

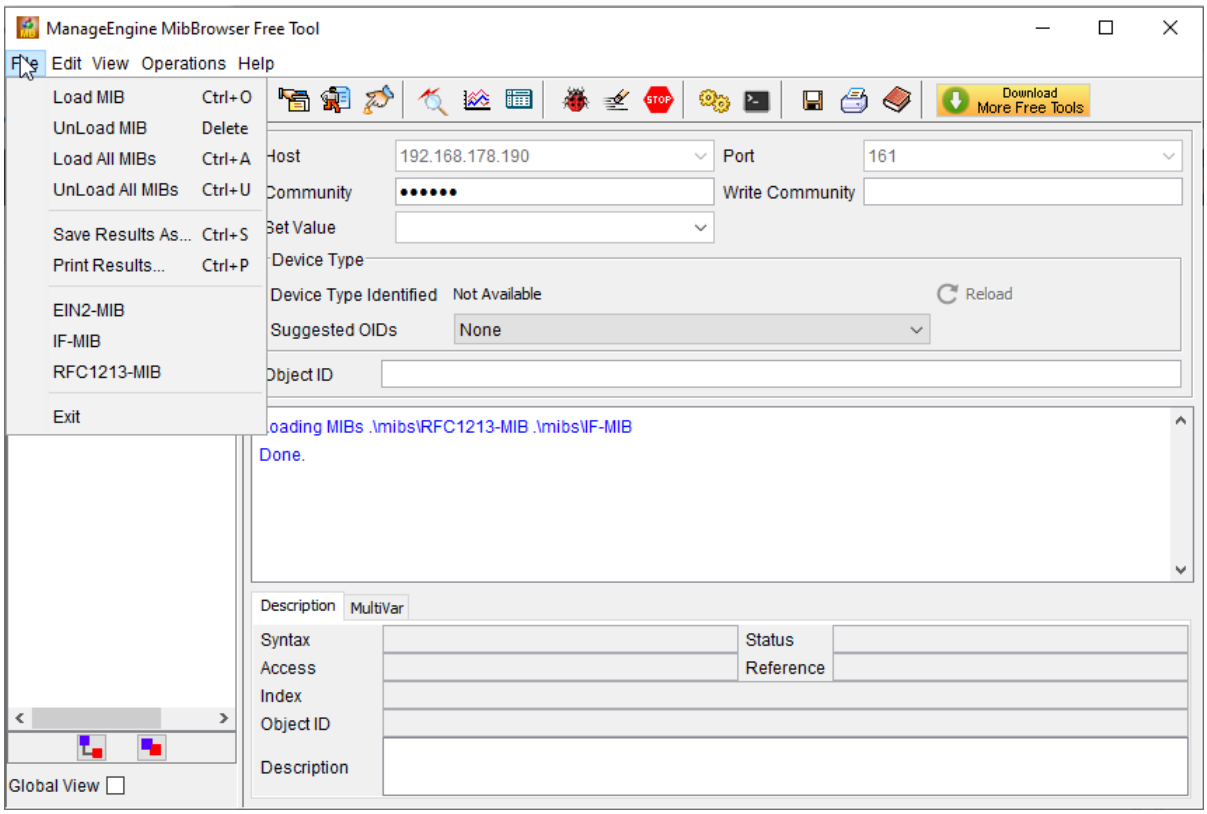


On this page you can also download the Nx70 MIB file that you can then upload on your SNMP server.

SNMP tool settings

Import MIB file

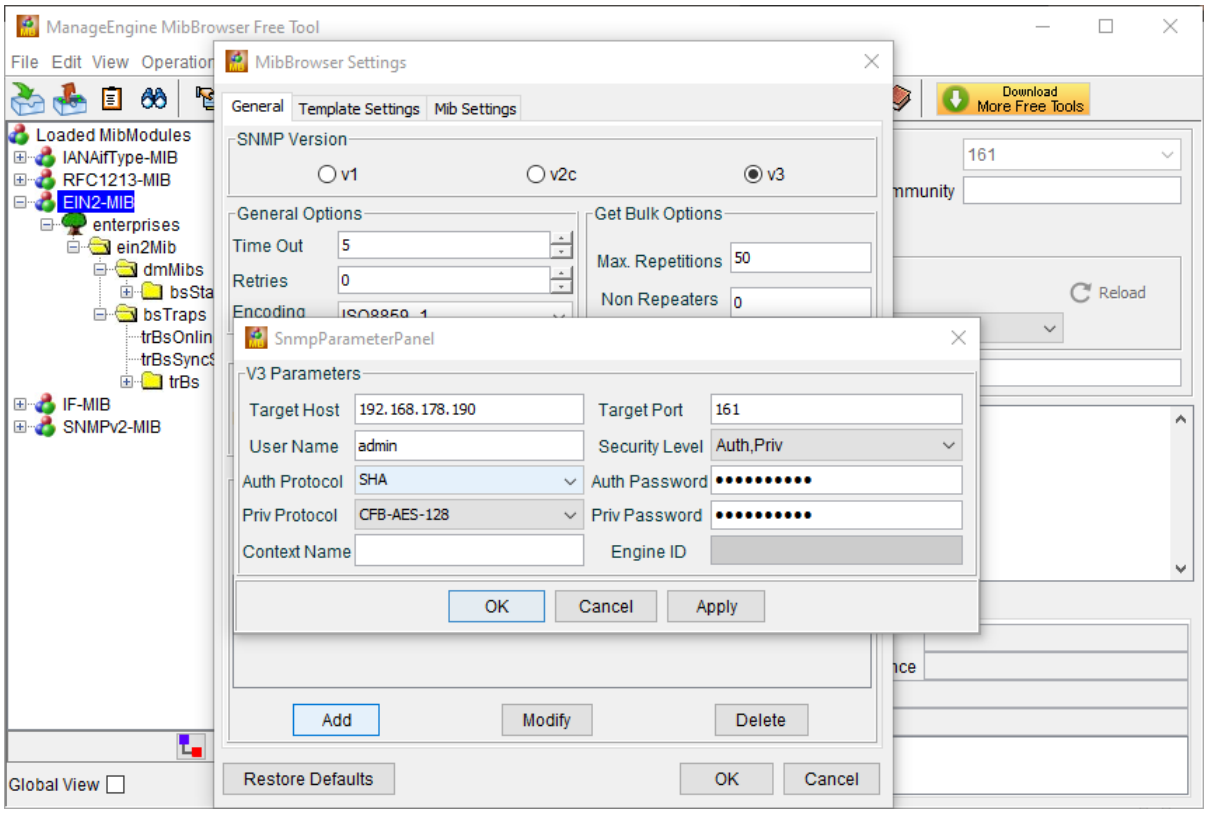
In the tool go to: File Load MIB



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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File Edit View Operation
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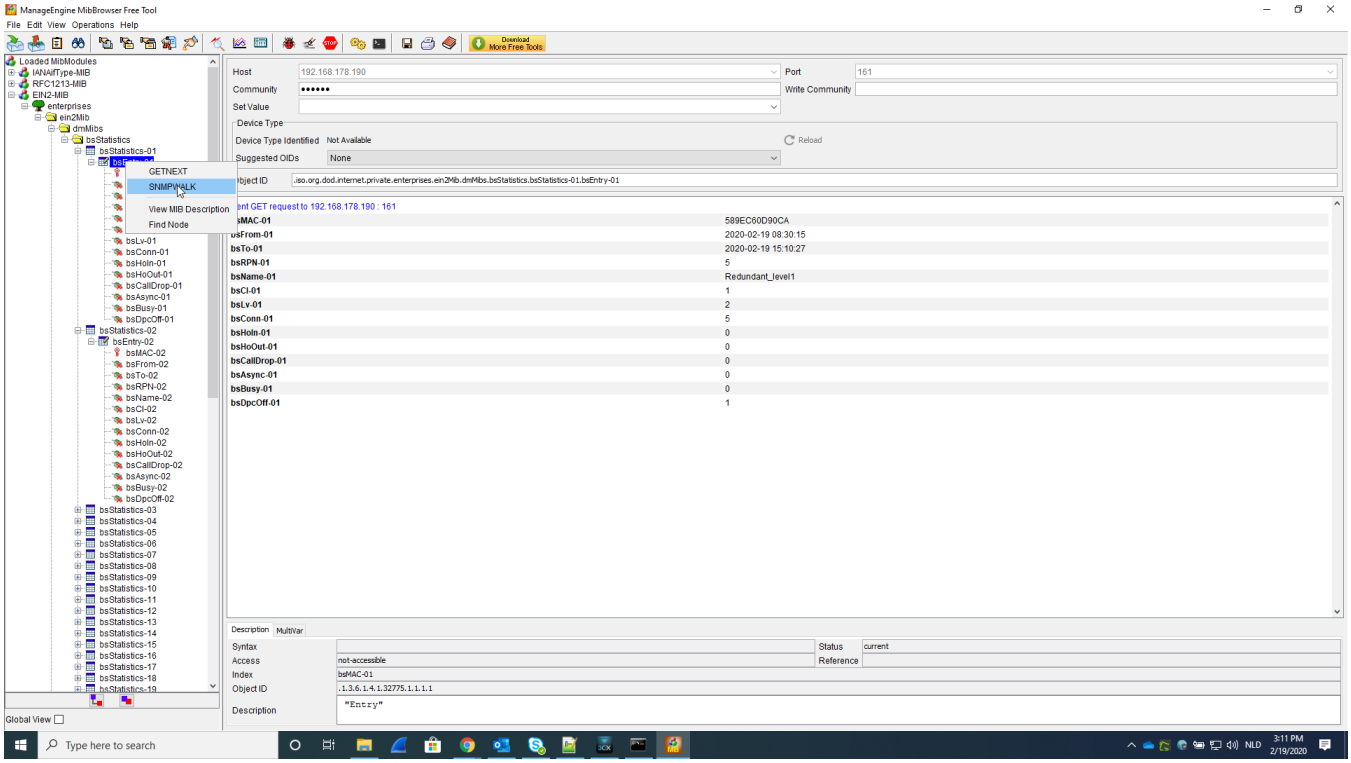
Loaded MibModules
IANAifType-MIB
RFC1213-MIB
EIN2-MIB
enterprises
ein2Mib
dmMibs
bsTraps
trBs
IF-MIB
SNMPv2-MIB
Global View
MibBrowser Settings
General
Template Settings
Mib Settings
SNMP Version
v1
v2c
v3
General Options
Time Out
5
Retries
0
Encoding
Get Bulk Options
Max. Repetitions
50
Non Repeaters
0
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
161
Reload

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

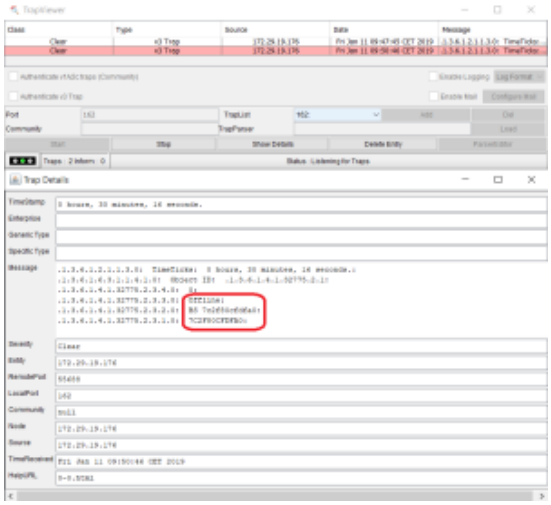
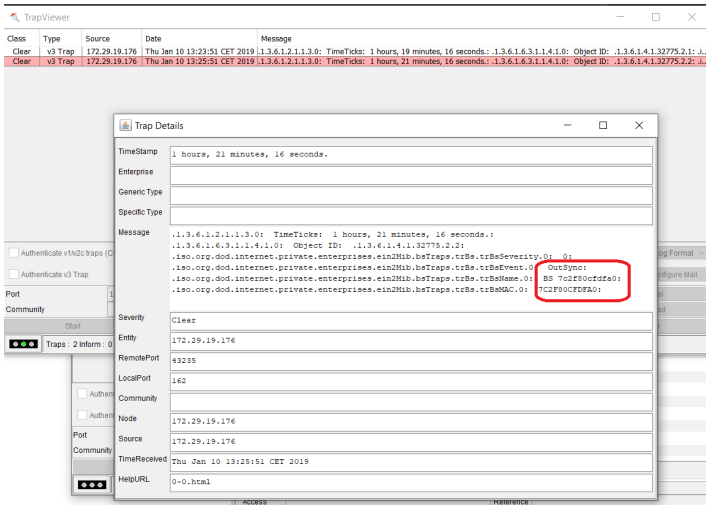
Supported traps:

- 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: