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.

SNMP statistics

SNMP manager address @

192.168.178.14

SNMP manager port @

162

SNMP username @

admin

SNMP password @

snmp-admin



Activate on all DECT Managers

X Deactivate on all DECT Managers

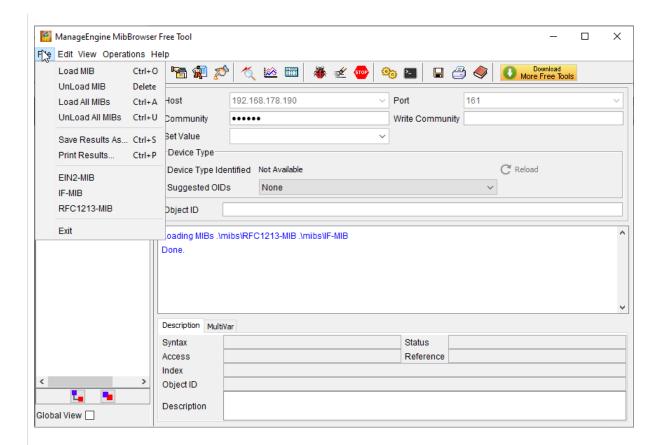
≛ Download MIB

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

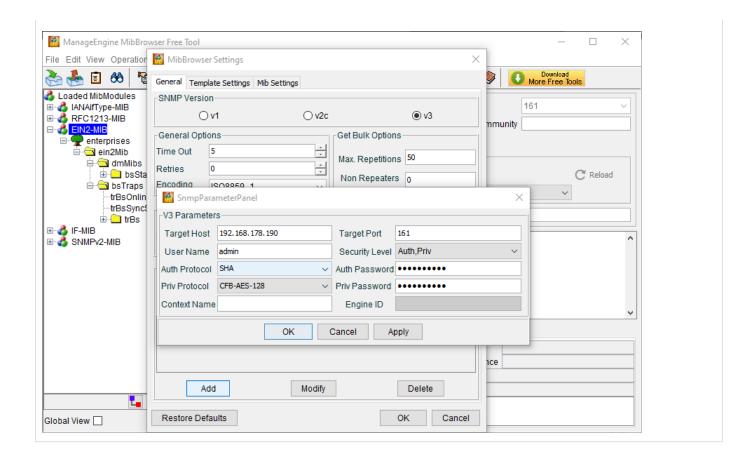
In the tool go to: File Load MIB

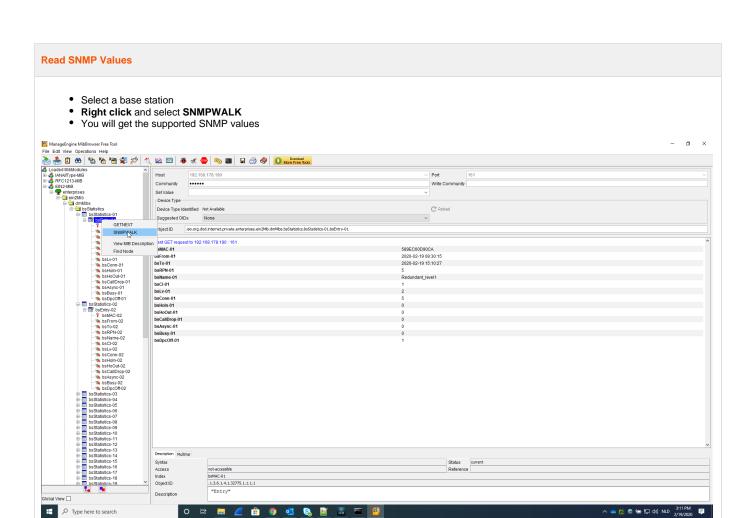


Enter login credentials.

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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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

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SNMP Traps

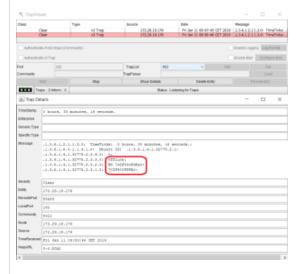
Supported traps:

- BS synchronization status trapBS 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:

