

# How To Customise Interface Speed, Collection, Thresholds and Events Using Node Configuration

NMIS will learn as much as it can about your network automatically and apply your collection policies to manage all the right things in a node, but sometimes, you want to override what it learns from the devices and tell it other things. This is done using NMIS Node Configuration or nodeconf for short. The intent of the nodeconf is that you do not need to modify the configuration of the actual device itself, you can change how NMIS is going to treat, handle this device by effectively modifying what data comes back from SNMP.

Nodeconf is a very handy capability for operations teams who might not have configuration access to the end node/device.

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## What Can I Change using Node Configuration

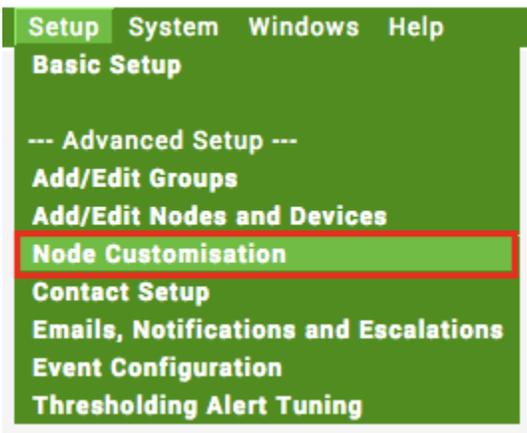
The Node Configuration is able to customise the following properties of a node.

- Override the SNMP sysContact field
- Override the SNMP sysLocation field
- Foreach interface you can configure/override
  - Interface Description (ifAlias)
  - Interface speed (ifSpeed) and NMIS support asymmetric interfaces like ADSL, so you can configure an **input speed** and **output speed**.
- Foreach interface you can enable or disable
  - Collection (collect SNMP data or not)
  - Events (send events or not)
  - Threshold (apply thresholding or not)

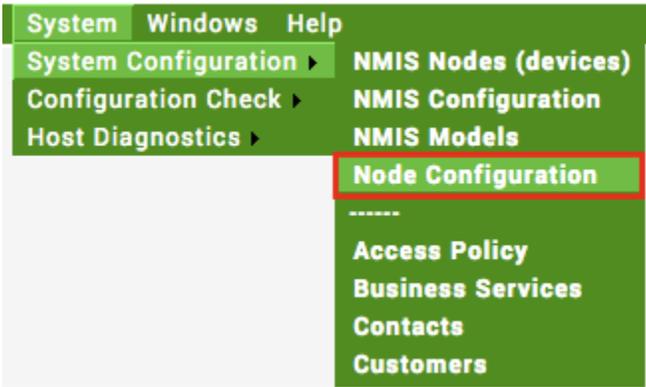
## Access Node Configuration

You can access node configuration a few ways.

If you are using NMIS 8.5.6G or greater including NMIS9 it will be in the Setup Menu as "Node Customisation".

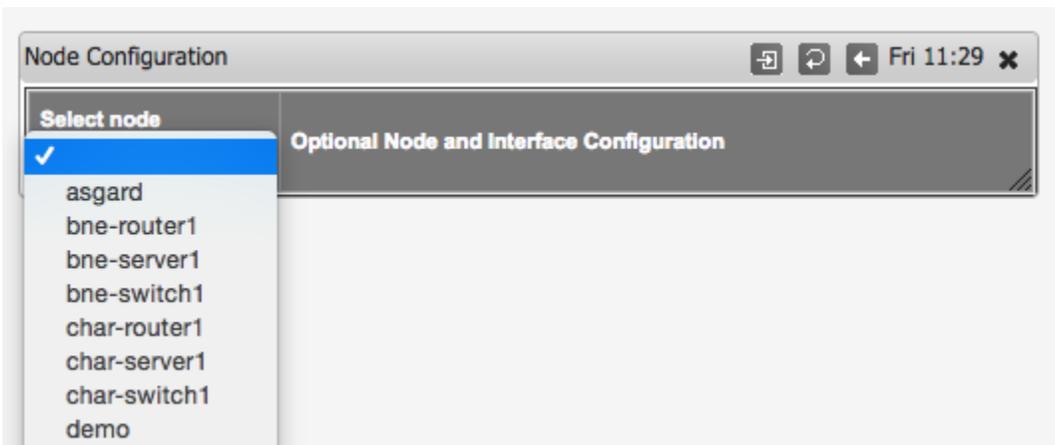


In earlier version of NMIS8 "System -> System Configuration" Menu as "Node Configuration".



With the above two methods you will then need to select the node from the drop down.

-Both methods also work in NMIS9



In NMIS for a while it is accessible while looking at the node.

Node	meatball	status	Interfaces	active Intf	ports	bgpPeer	fanStatus	tempStatus	events	outage	telnet	ping	trace	contact	location
<b>Node Details - meatball - Edit Node</b>															
<b>Node Configuration</b>															
Node Status	downed		KPI Scores												
IP Address	203.206.187.243		Reachability ▲ 10/10			Availability ▲ 7.78/10			Response ▲ 19.79/20			CPU ▲ 18.42/20			
Group	Branches		MEM ▲ 10/10			Interface ▲ 26.38/30									
Customer	Corporate		Key Performance Indicators												
Location	default		meatball - 2 days												
Business Service	Data Center														
Type	router		Reachability KPI Avg 10.00%    Availability KPI Avg 7.78% Response KPI Avg 19.78%    CPU KPI Avg 17.81% MEM KPI Avg 10.00%    SWAP KPI Avg 0.00% Interface KPI Avg 25.65%    Disk KPI Avg 0.00% Overall Health Avg 90.36%												
Model	CiscoRouter														
Uptime	84 days, 17:41:48														
Location	Brisbane														
Contact	default														

## Configuring a Node

You will be looking at a screen with many options and two main columns as below, you can start changing the setting you need to, in the example below, the settings for Contact, Location the Description and Input and Output speeds have been changed for eth0 (shown in red).

The principle here is that the Original value is what the value was before any changes by Node Configuration, and "Replaced by" are the settings you want NMIS to use now.

	Original value	Replaced by (active after update of node)
<b>Node</b>		
Contact	Root <root@localhost> (configure /etc/snmp/snmpd.conf)	Operations Team
SNMP Location	Unknown (edit /etc/snmp/snmpd.conf)	Data Center
Node Type	server	<from model>
<b>Interfaces</b>		
eth0		
Description		Main Ethernet
Display Name		
Speed In	1000000000	1000000000
Speed Out	1000000000	1000000000
Speed Limit	normal	<input checked="" type="radio"/> normal <input type="radio"/> strict <input type="radio"/> off
Collect	true	<input checked="" type="radio"/> unchanged <input type="radio"/> true <input type="radio"/> false
Events	true	<input checked="" type="radio"/> unchanged <input type="radio"/> true <input type="radio"/> false
Thresholds	true	<input checked="" type="radio"/> unchanged <input type="radio"/> true <input type="radio"/> false

I can change the Node Type by selecting the drop down and then option from the list. By default the Node Type is set by the Model, so this is part of the node discovery.

More details on Node Type customisation can be found here: [Opmantek System Configuration#ConfigurationAPI](#)

	Node Type
	server
<b>Interfaces</b>	
eth0	
Description	
Display Name	
Speed In	1000000000

Looking down the list of interfaces, I can see that the Loopback is not being collected, and I would like to see that, so I change the interface to Collect true.

lo	Description
Speed In	10000000
Speed Out	10000000
Collect	false

Then I can save all my changes by selecting "Store" and if I am ready for NMIS to start using those changes, I can select "Store and Update Node", then NMIS will put the changes into action.

Replaced by  
(active after update of node)

Store Store and Update Node

## Conclusion

NMIS has a highly scalable configuration and policy system to help you control how and what you manage from the network and servers, Node Configuration gives you the ability to override this and collect what you need to collect now.