Node Report

Requirements

> ⊘ Exercise caution while editing **/path/to/omk/conf/opCommon.json, /path/to/omk/conf/opCommon.nmis** or **/path/to/nmis/conf/Config.nmis**; if a syntax error is induced all OMK applications will cease to function
>
> Check out How to make configuration changes to opCommon.nmis and other files for some more details on best practices for modifying the configuration file.

opReports 4 requires that configuration item **nmis nmis_host_base** in**/path/to/omk/conf/opCommon.json** be set to the IP address or FQDN of the server,
and be prepended by the HyperText Transfer Protocol (http:// or https://),
for the Node Report to function correctly.

opReports 3 requires that configuration item **nmis nmis_host_base** in**/path/to/omk/conf/opCommon.nmis** be set to the IP address or FQDN of the server,
and be prepended by the HyperText Transfer Protocol (http:// or https://),
for the Node Report to function correctly.

opReports 3 and 4 require that configuration item **files rrddraw** in**/path/to/nmis/conf/Config.nmis** be set. The default setting is **'rrddraw' => '<cgi_url_base>/rrddraw.pl',**

- opReports 3 and 4 require one to login to NMIS to view the graphs in the Node Report.

Introduction

The Node Report provides a detailed summary of *one* node. Node details such as status, sysName, IP address, type, model, uptime, interfaces, location, contact, description, last update, vendor, object name, group role and net and the interface table are presented. This report is useful in particular for incident and problem management reporting.

Interfaces and storage items are details if present.

Graphs are provided which details the following: reachability, availability and health, response time, CPU utilisation, number of routes, IP utilisation, IP fragmentation/reassembly (as a % of packets received), buffer utilisation.

Items of note:

- This report cannot be created for more than one node. If your node selection contains more than one node, then the report is created for the first node in your list.
- This report relies directly on NMIS for inline graphs, and therefore won't work unless the configuration item `nmis_host_base` is correctly set (i.e. has the public web address of your NMIS server).
- Business Hours reporting is not supported for this report.
- This report cannot be generated in formats other than HTML.
- While it can be saved it is *not self-contained* (the NMIS graphs are live and created on viewing!), therefore it's primarily of use as an on-demand report for immediate consumption.

The screen shot below shows the Create On-Demand Report menu. From this menu you can create any of the reports that opReports has to offer.

Create On-Demand Report

1 **Report Description**	(optional) Description of the report	
2 **Report Type**	Node Report	▾
3 **Node Selection**	All Active Nodes	▾
4 **Start Date/Time**	now - 7 days	?	**End Date/Time** now	?
5 **From Hours**	?	0 ▾	**To Hours** ? 24 ▾	**Days** ? Mon-Sun ▾
Formats	☑ HTML ☑ CSV ☑ XLSX	
Report Name	(Optional) Report Name	?
Node Name Display	Plain Node Name ▾	?
Interface Display	Interface Description ▾	?
Include Embedded Graphs	☑	
Custom Report Title	(Optional) Custom Report Title	?
Exceptions Report	☐ Exceptions Only (Health Report)	
6 **WAN Report Level**	Default ▾	
Show Util Thresholds	☑ **Show only Util** ☐	
7 **Utilisation Threshold**	80 % **Min Over-Threshold Count** 1	
Show 95th Percentile	Combined In and Out Utilisation ▾	?
8 **Authorised Viewers**	▾	?

Generate | Cancel | Advanced Options

Number	Configuration Option	Description
1	Report Description	Description of the report.
2	Report Type	The type of report to run.
3	Node Selection	This selects the node that the report will be ran on.
4	Start Date/Time	The time and date the report starts and how long it runs for.
5	From Hours	The preferred hours the report gathers data.
6	WAN Report Level	Default or Full Detail. Controls the amount of detail given by the report.
7	Utilisation Threshold	The desired interface utilisation threshold value (in percent), default: 80 (percent).
8	Authorized Viewers	What groups are allowed to view the report.

The screen shots below show examples of some of the details of a default Node report on a device.
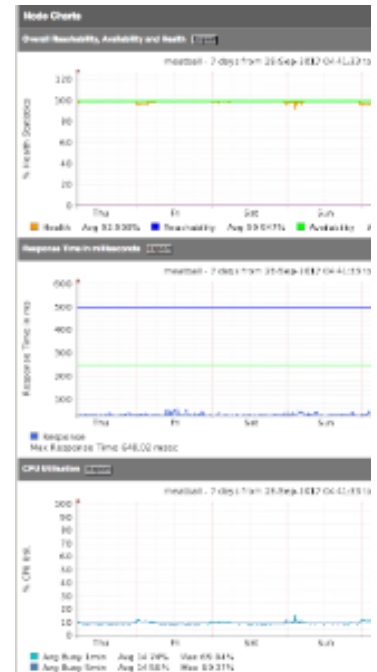
opReports 3.0.14   Views ▾

Modules ▾   Help ▾   User: nmis ▾

Node Report for meatball

Info | HTML | ZIP | Email | Delete

Easily export and view
reports in different formats.

Coverage: 7 day(s), from 2017-09-28T04:52:35 to 2017-10-05T04:52:35 AEST
Generated: 2017-10-05T04:52:35 AEST

Node Details for meatball

name	meatball
Node Status	reachable
System Name	meatball.opmantek.com
IP Address	203.205.187.243
Type	router
Model	CiscoRouter
Uptime	186 days, 3:38:56
Interfaces	24
Location	Brisbane
Contact	default
Description	Cisco IOS Software C880 Software (C880DATA-UNIVERSALK9-M) Version 15.1(1)T1 RELEASE SOFTWARE (fc2) Technical Support: http://www.cisco.com/techsupport Copyright (c) 1986-2010 by Cisco Systems Inc. Compiled Mon 19-Jul-10 07:17 by prod_rel_team
Last Update	05-Oct-2017 04:50:11
Vendor	Cisco Systems
Object Name	cisco887G
Group	Branches
Role	core
Net	wan

Interface Table

IfDescr	Description	IfIndex	IfSpeed	IfType	IfAdminStatus	IfOperStatus	collect
ATM0	mac-address 78a0.5112.8d78	1	1023 Kbps	other	up	up	false
FastEthernet0		2	100 Mbps	ethernetCsmacd	up	up	true
FastEthernet1		3	100 Mbps	ethernetCsmacd	up	down	false
FastEthernet2		4	100 Mbps	ethernetCsmacd	up	down	false
FastEthernet3		5	100 Mbps	ethernetCsmacd	up	up	true
Null0		6	10 Gbps	other	up	up	false
ATM0-adsl		7	1023 Kbps	adsl	up	up	false
ATM0-atm layer		8	1 Gbps	atm	up	up	false
ATM0.0-atm subif	mac-address 78a0.5112.8d78	9	1023 Kbps	atmSubinterface	up	up	false
ATM0-aal5 layer		10	1 Gbps	aal5	up	up	false

There are many more charts that are not displayed in these screen shots. To view a full example of everything this report generates download our ZIP file Here