opReports Configuration

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The configuration options for opReports are stored in a *text* file /usr/local/omk/conf/opCommon.nmis.

Configuration items that are not application specific are detailed on the opCommon Configuration page.

Common Settings to Consider Adjusting

The items below are commonly changed by customers.

Section	Name	Original Value	Description
opreports	opreports_opcharts_password	nm1888	opreports needs a user with read only access
opreports	opreports_url_base	http://yourserver.yourdomain/	for creating links in emails, reports

Specific Configuration

The opReports section of opCommon.nmis is for opReports specific configuration items only.

Section	Name	Original Value		Possible Values	Description
opreports	opreports_application_heading	undef			
opreports	opreports_do_cache_known_reports	undef			
opreports	default_report_timezone	AEST			
opreports	opreports_embedded_graph_size	[600,150]			these are final sizes
opreports	opreports_embedded_graph_size_small	[300,75]			these are final sizes
opreports	opreports_embedded_nmis_graph_size	[452,113]			these are not final, dynamically adjusted based on graph content
opreports	opreports_embedded_nmis_graph_size_small	[300,50]			these are not final, dynamically adjusted based on graph content
opreports	opreports_url_base	http://yourserver.yourdomain/		<url>	
opreports	opreports_max_interface_util				
opreports	opreports_opcharts_url_base	http://127.0.0.1:8042		<url>	base of opCharts server, eg http://localhost:8042 (no slash at the end)
opreports	opreports_opcharts_user	nmis		<username>	user needs ro-access
opreports	opreports_opcharts_password	nm1888		<password>	
opreports	opreports_default_css	<omk_public>/omk/css/opReports_report.css		<relative url>	copied into the report output dir if not present; included in zip and emailed reports
opreports	opreports_default_js	<omk_public>/omk/js/opReports_report.js		<relative url>	copied into the report output dir if not present; included in zip and emailed reports
opreports	opreports_custom_files	undef			list of other files (e.g. logos) to copy/include with html reports e.g. ['/path/to/my/logo.png', '/some/other/file.jpg']
opreports	opreports_output_dirs	['<omk_reports>']		<relative filepaths>	authorized output directories for opreports on-demand reports are always saved in <omk_reports_ondemand>
opreports	opreports_availability_nodata_separate	false		true, false	availability report: treat 'no data' periods as separate from up/down, or include those in up?

opreports	opreports_availability_average_packetloss	false		true, false	availability report: 'opreports_availability_average_packetloss' defaults to false: false: "Percentage of readings with some amount of packet loss (Count readings with any packet loss / Number of readings)" true: "Average Packet Loss (Sum of packets lost / Number of readings)"
opreports	opreports_ms_availability_strict	false		true, false	monitored_services report: treat 'no data' periods as 'not down' unless 'opreports_ms_availability_strict' set 'true': defaults to false
opreports	default_report_keep_for	{ 'daily' => 40, 'weekly' => 48*7, 'monthly' => 24*31, 'yearly' => 5*365, 'on-demand' => 42 }			how many days scheduled reports are kept if the schedule doesn't specify a limit and also covers on-demand reports via the pseudo-frequency 'on-demand'
opreports	opreports_selftest_rules	{ 'last_scheduler' => 3*3600, 'min_diskfree' => 10, 'max_jobage' => 3*3600 }			

opreports	report_ups_configured_models	POWERALERT-APC' => {
		'exclude_nodegraphs_in_this_report_type' => 'health, upspwr,upsbattemp'
		},
		'POWERALERT-ups' => {
		'exclude_nodegraphs_in_this_report_type' => 'health, upspwr,upsbattemp'
		},
					configuration settings for UPS Configured Models Report:

opreports	report_wan_levels	1' => {
		"name"=>"Default",
		"description" => "The Default report contains a modest default level of details.",
		"extras" => "ResponseTime,InOutErrorDiscards, AvgMaxInOutBits",
		},
		'2' => {
		"name"=>"Full Detail",
		"description" => "The Full Detail report includes all known options.",
		"extras" => "ResponseTime,InOutErrorDiscards, AvgMaxInOutBits,ErrPct,ErrExc,DiscPct,DiscExc,Util95, UtilExc",
		}
					# known extras that can be specified:
					# ResponseTime: shows the response time
					# InOutErrorDiscards: includes interface discard and error stats
					# AvgMaxInOutBits: includes average and max of transfer rates
					# ErrPct: include maxima of in/out error percentages
					# ErrExc: include number of exceptions above wan_error_exception_threshold
					# DiscPct: include maxima of in/out discard percentages
					# DiscExc: include number of exceptions above wan_discards_exception_threshold
					# Util95: include 95th percentile of in/out utilisation
					# UtilExc: include number of exceptions above wan_util_exception_threshold

opreports	report_summary_levels	Low' => { "threshold" => -1, "description" => "Low Util (<= 45%)", "color" => "green" }, "Minor" => { "threshold" => 45, "description" => "Minor Util (<= 80%)", "color" => "yellow"}, "Major" => { "threshold" => 80, "description" => "Major Util (> 80%)", "color" => "red" },			for the link categorisation in the traffic summary report threshold is compared against utilisation (lowest cat with util > threshold is chosen)

opreports	report_jcos_levels	default' => {
		'util' => {
		'ok' => { description => "<70%", threshold => -1, color => "" },
		'yellow' => { description => ">70%", threshold => 70, color => "#ffff00" },
		'orange' => { description => ">80%", threshold => 80, color => "#ff8900" },
		'red' => { description => ">90%", threshold => 80, color => "#ff0000" },
		},
		'util95th' => {
		'ok' => { description => "<90%", threshold => -1, color => "" },
		'yellow' => { description => ">90%", threshold => 90, color => "#ffff00" },
		'orange' => { description => ">95%", threshold => 95, color => "#ff8900" },
		'red' => { description => "100%", threshold => 100, color => "#ff0000" },
		},
		'dropped' => {
		'ok' => { description => "0%", threshold => -1, color => "" },
		'yellow' => { description => "<5%", threshold => 0, color => "#ffff00" },
		'orange' => { description => ">5%", threshold => 5, color => "#ff8900" },
		'red' => { description => ">10%", threshold => 10, color => "#ff0000" },
		}
		},
					for colorisation of the juniper cos report

opreports	report_groupedavailability_levels	default' => { 'lowest' => { description => "<98%", threshold => -1, color => "#ff0000" }, 'low' => { description => "98 < 99%", threshold => 98, color => "#ff8900" }, 'high' => { description => "99 < 100%", threshold => 99, color => "#ffff00" }, 'good' => { description => "100%", threshold => 100, color => "" }, },			for categorisation and coloration of the grouped availability report
opreports	report_node_availability_colors	down' => '#d9534f', 'unreachable' => '#e6e619', 'up' => '#59cf59', 'partially_reachable' =>'#288a28'			for custom node availability colors.

report_snapshot_levels	binary	"Low" => { "color" => "green", "description" => "Low Util", "threshold" => -1 }, "High" => { "color" => "red", "description" => "High Util", "threshold" => 50 }			for colorisation in the traffic snapshot report threshold is compared against utilisation (lowest cat with util > threshold is chosen)
report_snapshot_levels	quarters	lowest' => { 'color' => "#93cc5e", "description" => "<10%", threshold => -1 }, 'quarter' => { 'color' => "#fffa48", "description" => "10-25%", threshold => 10 }, 'secondq' => { 'color' => "#ffbe3a", "description" => "25-50%", threshold => 25 }, 'upperhalf' => { 'color' => "#ff2121", "description" => ">50%", threshold => 50 },			for colorisation in the traffic snapshot report threshold is compared against utilisation (lowest cat with util > threshold is chosen)

report_snapshot_levels	fifths	"lowest" =>{
		"color" =>"#004d00",
		"description" =>"under 1%",
		"threshold" => -1,
		},
		"firstthird" => {
		"description" =>"1-30%",
		"color" =>"#008000",
		"threshold" => 1,
		},
		"secondthird" =>{
		"color" =>"#00ff00",
		"description" =>"30-60%",
		"threshold" =>30,
		},
		"prettyhigh" => {
		"threshold" =>60,
		"color" =>"#c6ff1a",
		"description" =>"60-80%",
		},
		"veryhigh" => {
		"color" =>"#ffa31a",
		"description" =>"above 80%",
		"threshold" =>80,
		},
					for colorisation in the traffic snapshot report threshold is compared against utilisation (lowest cat with util > threshold is chosen)

report_wan_distributions	Default WAN Distribution Levels Descending	"group4" =>{
		"description" => "<=30%",
		"min" => 0,
		"max" => 30,
		},
		"group3" => {
		"description" => ">30% <=70%",
		"min" => 30,
		"max" => 70,
		},
		"group2" =>{
		"description" => ">70% <=90%",
		"min" => 70,
		"max" => 90,
		},
		"group1" => {
		"description" => ">90%",
		"min" => 90,
		"max" => 1000000,
		},			

report_wan_distributions	Default WAN Distribution Levels Ascending	"group1" =>{
		"description" => "<=30%",
		"min" => 0,
		"max" => 30,
		},
		"group2" => {
		"description" => ">30% <=70%",
		"min" => 30,
		"max" => 70,
		},
		"group3" =>{
		"description" => ">70% <=90%",
		"min" => 70,
		"max" => 90,
		},
		"group4" => {
		"description" => ">90%",
		"min" => 90,
		"max" => 1000000,
		},
					groupings for wan utilization distribution reports:
					groups will be displayed sorted on groupname ascending.
					max max set to an unusually high 1000000% as a catchall since values > 100% can be expected.
					the 'first' of the 2 options presented here 'Default WAN Distribution Levels Descending' is the default option.
					for on-demand scheduling GUI the 'last' of the 2 options presented here 'Default WAN Distribution Levels Ascending' is set as default in GUI

opreport_rules	condition_low_wanutil	false		true, false	false: define acceptable utilisation as anything below wantil_high. true: acceptable utilisation is between wanutil_ok and wanutil_high
opreport_rules	cpu_veryhigh	30		<integer>	
opreport_rules	cpu_high	20		<integer>	
opreport_rules	cpu_moderate	12		<integer>	
opreport_rules	cpu_exception_threshold	20		<integer>	
opreport_rules	mem_free_verylow	10		<integer>	

opreport_rules	mem_free_low	25		<integer>	
opreport_rules	iomem_free_verylow	10		<integer>	
opreport_rules	iomem_free_low	25		<integer>	
opreport_rules	swap_veryhigh	50		<integer>	
opreport_rules	swap_high	20		<integer>	
opreport_rules	swap_moderate	10		<integer>	
opreport_rules	reachability_verylow	99.9		<decimal>	
opreport_rules	reachability_low	99.999		<decimal>	
opreport_rules	availability_verylow	80		<integer>	
opreport_rules	availability_low	95		<integer>	
opreport_rules	qos_highutil	75		<integer>	
opreport_rules	qos_lowutil	1		<integer>	
opreport_rules	qos_droppkt	1		<integer>	
opreport_rules	uptime_shortest_days	7		<integer>	
opreport_rules	uptime_longest_days	365		<integer>	
opreport_rules	response_exception_threshold	10		<integer>	
opreport_rules	wan_nettypes	wan		<regex>	should be a regular expression: nodes with nonmatching network types are ignored
opreport_rules	wan_availability_low	99.9		<decimal>	
opreport_rules	wan_availability_verylow	95		<integer>	
opreport_rules	wanutil_veryhigh	80		<integer>	
opreport_rules	wanutil_high	65		<integer>	
opreport_rules	wanutil_ok	20		<integer>	
opreport_rules	wanutil_low	10		<integer>	
opreport_rules	wanutil_max_ok	80		<integer>	
opreport_rules	wanutil_max_low	80		<integer>	
opreport_rules	wanutil_exception_threshold	60		<integer>	
opreport_rules	wan_error_exception_threshold	1		<integer>	
opreport_rules	wan_discards_exception_threshold	1		<integer>	
opreport_rules	wan_errors_high	1		<integer>	
opreport_rules	wan_discards_high	1		<integer>	