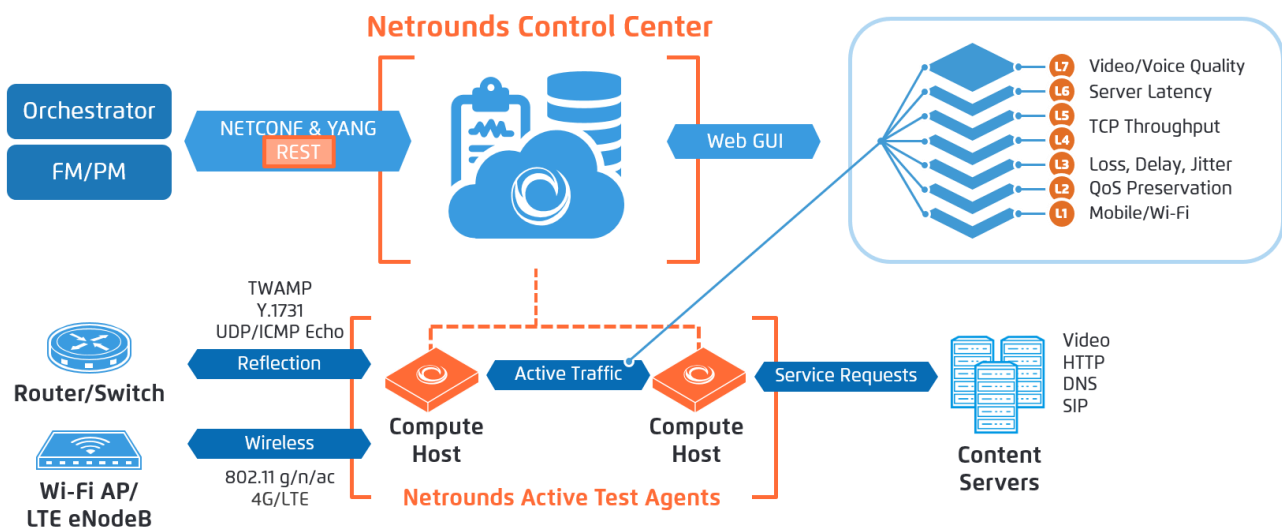


Netrounds REST API Orchestration

The Netrounds REST API is a RESTful API that enables easy and efficient orchestration of Netrounds activities. The API adheres to the OpenAPI specification (<https://swagger.io/specification>).

Function of REST API in Netrounds Solution

The Netrounds REST API provides an orchestrator, Performance Management/Fault Management system or work flow engine with an interface to Netrounds Control Center, as depicted in the Netrounds system overview diagram below:



Features Supported in REST API

In the following set of tables, all Netrounds features accessible through the REST API are listed. Full documentation is found in the document "REST API Orchestration Guide".

All URLs to which REST operations are applied begin with "https://{Netrounds Control Center IP address or hostname}/restol/accounts/{account name}/". This applies to all tables below.

Test Agents

Operation	URL Termination	Explanation
GET	test_agents/	Retrieve list of all Test Agents
POST		Create new Virtual Test Agent (vTA)
POST	test_agents/reboot/	Reboot all or selected Test Agents
POST	test_agents/update/	Trigger software update for all or selected Test Agents
GET	test_agents/{test_agent_id}/	Retrieve configuration of specified Test Agent
PUT		Modify entire configuration of specified Test Agent
PATCH		Modify subset of configuration of specified Test Agent
DELETE		Delete specified Test Agent

Test Agents (continued)

Operation	URL Termination	Explanation
PUT	test_agents/{test_agent_id}/wifiscan/{test_agent_interface_name}	Start Wi-Fi scan on named interface of specified Test Agent
GET		Get results from Wi-Fi scan on named interface of specified Test Agent
DELETE		Stop Wi-Fi scan on named interface of specified Test Agent

TWAMP Reflectors

Operation	URL Termination	Explanation
GET	twamp_reflectors/	Retrieve list of all TWAMP reflectors
POST		Create new TWAMP reflector
GET	twamp_reflectors/{twamp_id}	Retrieve configuration of specified TWAMP reflector
PUT		Modify configuration of specified TWAMP reflector
DELETE		Delete specified TWAMP reflector

Y.1731 Maintenance End Points (MEPs), IPTV Channels, SIP Accounts

Operations are exactly analogous to those for TWAMP reflectors. URL terminations are as follows:

- y1731_meps, y1731_meps/{mep_id}
- iptv_channel, iptv_channel/{channel_id}
- sip_account, sip_account/{account_id}

Test Templates (created in Netrounds Control Center GUI)

Operation	URL Termination	Explanation
GET	test_templates/	Retrieve list of all test templates
GET	test_templates/{test_template_id}	Retrieve full definition of specified test template
GET	test_templates/export	Export test templates in JSON format
POST	test_templates/import	Import previously exported test templates

Tests

Operation	URL Termination	Explanation
POST	tests/	Create test based on test template, and run test
GET	tests/	Retrieve list of all tests created
GET	tests/{test_id}	Retrieve results for specified test (passed/failed; optionally also detailed [second-by-second] metrics)

Monitor Templates (created in Netrounds Control Center GUI)

Operation	URL Termination	Explanation
GET	monitor_templates/	Retrieve list of all monitor templates
GET	monitor_templates/{monitor_template_id}	Retrieve full definition of specified monitor template
GET	test_templates/export	Export test templates in JSON format
POST	test_templates/import	Import previously exported test templates

Monitors

Operation	URL Termination	Explanation
POST	monitors/	Create (and optionally start) monitor based on monitor template
PATCH/PUT	monitors/{monitor_id}	Start or stop specified monitor
GET	monitors/	Retrieve list of all defined monitors and data on SLA fulfillment during their execution
GET	monitors/{monitor_id}	Retrieve full definition of specified monitor, averaged result metrics, and data on SLA fulfillment; optionally also detailed result metrics with configurable temporal resolution (default: 10 s)

Alarm Templates

Operation	URL Termination	Explanation
POST	alarm_templates/	Create alarm template
PUT	alarm_templates/{templ_id}	Modify specified alarm template
GET	alarm_templates/	Retrieve list of all alarm templates
GET	alarm_templates/{templ_id}	Retrieve full definition of specified alarm template
DELETE	alarm_templates/{templ_id}	Delete specified alarm template

Alarms (created in the course of creating monitors)

Operation	URL Termination	Explanation
GET	alarms/	Retrieve list of all alarms
GET	alarms/{alarm_id}	Retrieve full definition of specified alarm
PUT	alarms/{alarm_id}	Suppress specified alarm so that it will never trigger
DELETE	alarms/{alarm_id}	Delete specified alarm

Alarm Email Lists

Operation	URL Termination	Explanation
POST	alarm_emails/	Create list of email addresses to which to send alarms
PUT	alarm_emails/{email_list_id}	Modify specified alarm email list
GET	alarm_emails/	Retrieve list of all alarm email lists
GET	alarm_emails/{email_list_id}	Retrieve full contents of specified alarm email list
DELETE	alarm_emails/{email_list_id}	Delete specified alarm email list

SNMP Managers

Operation	URL Termination	Explanation
POST	snmp_managers/	Create SNMP manager to which to send alarms as SNMP traps
PUT	snmp_managers/{mgr_id}	Modify specified SNMP manager
GET	snmp_managers/	Retrieve list of all SNMP managers
GET	snmp_managers/{mgr_id}	Retrieve full configuration of specified SNMP manager
DELETE	snmp_managers/{mgr_id}	Delete specified SNMP manager

Tags

Operation	URL Termination	Explanation
POST	tags/	Create tag
PUT	tags/assign	Assign tag to resource (monitor, monitor template, Test Agent, or TWAMP reflector)
GET	tags/{tag_id}	Update specified tag
GET	tags/unassign	Unassign tag from resource
DELETE	tags/{tag_id}	Delete specified tag