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Relation test

The relation test tool enables you to execute the queries made in the [Relations](#) form for any node, so you are able to review the resulting data.

First page

This tool uses two pages, the first to select the nodes (devices) to test the relation(s) with, the second to find and select the relation and evaluate the results for the context (the node).

Devices can be selected by several means. Adding a Node-group will expand the 'Selected devices' box with the nodes matching the group criteria and the permissions the user has for the client-type of each node (minimally 'engineer'). Selecting more Node-groups (by double-clicking or hitting >>) will further expand the 'Selected devices' box.

Show Relation data

Devices list

Enter (wildcard) nodenames, sites or clients (from yce and cmdb).
Items should be separated (comma, whitespace, semicolon, newline).

Add list

Group tag: Vendor

Refresh

Node groups

Alcatel_OmniSwitch
Alcatel_TiMOS
Arista_EOS
Aruba_MC
Aruba_MM
Avaya_ERS
Avaya_VSP
Checkpoint_Mgmt
Ciena_CI6
Ciena_CI8
Cisco_ACI
Cisco_IOS
Cisco_Nexus

Selected Devices (49)

a-ce01
a-ce02
automation
b-ce01
b-ce02
brd_rtr1
campus001-dist-b01
campus001-dist-b02
campus001-dist-b03
campus001-dist-b04
campus01-b01-access01
campus01-b01-access02
campus01-b02-access01

Next

Alternatively devices can be added by typing a list of Node names, ClientCodes or SiteCode in the 'Devices list' box and clicking the 'Add list' button. Each entry will be sequentially be attempted to expand into one or more device names. What is more, these list items support the wildcards * and ? to quickly find ranges of devices.



Selected Devices can be found in the YCE database or in the CMDB database. Where both exist, the YCE database takes precedence as its context is much more extensive. Its origin will be displayed in the column 'Source' of the second page.

Multiple nodes can be selected in the 'Selected devices' box and removed from the list by clicking the << button.

Second page

The second screen is displayed after clicking **Next**

This page has three sections. At the top is a list of all selected devices grouped per Client and Site along with the location address. For each node the nodename, its State, Vendor-type, Model and its Source are given. The Model will only be available once NetYCE executed a job on the device to retrieve its device model.

Show Relation data

Select device for relation context

Client / Site - Address	State / Vendor / Model	Source
CMDB / CMDB		
<input type="radio"/> qdvpicasw03	active / Cisco_XE	cmdb
<input type="radio"/> r4	active / Cisco_XE	cmdb
<input type="radio"/> router3	active / Cisco_XR	cmdb
<input type="radio"/> sandbox-iosxe-latest-1	active / Cisco_XE / CSR1000V (VXE)	cmdb
ServerCompany / LAB		
[LAB]		
<input checked="" type="radio"/> ls1-lab	planned / Cisco_Nexus	yce
<input type="radio"/> ls2-lab	planned / Cisco_Nexus	yce
<input type="radio"/> ss1-lab	planned / Cisco_Nexus	yce

Find:

substring

Filter

Relations:

Port_map

View context

One of the nodes can be selected to become the 'current context', that is, the collection of database information related to the selected node, the values used for retrieving the relation data.

Next the section for selecting the relation to test is shown. As Relations are global (no client-type restrictions apply), a filter can be used to reduce the number of offered relations. Select the one to test which query is then retrieved and can be edited.

Note: edited relations are *not* saved. Relations must be changed using the Relations form.

Find:

substring

Filter

Relations:

Vrf_port_net

View context

Context Query:

```
SELECT IF (Slot_id = 'sys' or Slot_id = '',
concat(Port_type, Port_id),
concat(Port_type, Slot_id, '/', Port_id)
) AS Ifname,
Port_map.*, Ip_subnet.*, Node_vrf.*
FROM YCE.Node_vrf
INNER JOIN Port_map ON Node_vrf.Hostname = Port_map.Hostname
INNER JOIN Ip_map ON Port_map.Interface_id = Ip_map.Interface_id
INNER JOIN Ip_subnet ON (Ip_map.Subnet_id = Ip_subnet.Subnet_id AND Ip_subnet.Vrf_id =
Node_vrf.Vrf_id)
WHERE Node_vrf.Hostname = '<hostname>'
AND Node_vrf.Vrf_id = '<vrf_id>'
```

vrf_id

<vrf_id> override value

Evaluate

Context hostname: ls1-lab

Warning:
Parameter not resolved: vrf_id

Context data:
Records: 0

In the example above, the Relation uses a variable in its query that cannot be substituted directly from the nodes context and therefore prevents the query to retrieve data. The orange “Warning” informs that the Parameter <vlan> could not be resolved.

When examining the relation query, the parameters present in the query were included in the form to allow the user to provide an overriding value. The example also shows the <client_Type> parameter, but it could be substituted or would also have issued a warning.

So, after entering a sensible value for <vlan> the query can be executed again by clicking the Evaluate button and the resulting records (if any) will be displayed.

vrf_id

10055

Evaluate

Context hostname: ls1-lab

Context data:
Records: 1

Ifname	Interface_id	Hostname	Slot_id	Sys_slot	Port_id	Port_class	Port_name	Chan_id	Port_type	Port_speed	Port_mode	Port_shut	Pr
Ethernet1/3	715061	ls1-lab	1		3	Eth	Eth01/03		Ethernet	Auto	Auto	N	

Most Relations will execute properly without providing additional values as their scope used the node's context. But especially for relations used in vlan- or interface-templates, providing a manual value for vlan id or port name is essential.

Not all parameters used in the relation query are available for an overriding value: Hostname, ClientCode and SiteCode are suppressed as they are already manually selected in the device list.

YCE vs CMDB nodes

Although the Relation test tool can operate on both YCE and CMDB nodes, it should be understood that the information and therefore the context of a CMDB node is very limited. A CMDB node has only a limited set of attributes and only links to YCE objects like Domain, Region, Client and Site. It currently lacks interfaces, services and subnets required to create complex relations.

As a result, CMDB nodes will likely require its own set of Relations, tuned to the available context.

From:
<https://wiki.netyce.com/> - **Technical documentation**

Permanent link:
https://wiki.netyce.com/doku.php/menu:build:relations:relation_test

Last update: **2022/04/29 11:32**

