

Documentation

XIQ-SE Workflow “NAC ES name to switch port alias”

Assign NAC End System Name to the switch port. The data from the Control End System Table and the MAC address description from the End System Group Definition are used. If an end device IP address is available, a DNS reverse lookup is performed to determine the FQDN. If DNS cannot resolve the FQDN, the alias from the MAC address description is used. Finally, the port alias is developed which should normally be the FQDN hostname. Several hosts are supported on one port and used as a comma-separated alias. The length of the port alias is limited to 64 characters. If the intended alias is longer, it is shortened to 64.

Software & hardware used:

- XIQ-SE 25.02
- Control
- Fabric Engine

Once the workflow has been imported, it can be executed. A dialogue is presented to the user, which should be adjusted accordingly.

Run Workflow - NAC_ES_name_to_port_alias_special

Workflow Inputs

Timeout Properties

Timeout:

30 min(s)

Custom Inputs

Site Path:

/World

Days to review:

0

write Debug LOG:

false

Sanity check:

false

Next > Cancel

Site Path:

is a filter for limiting the quantity of switches to be used.

Days to review:

This is the number of days that the registrations are viewed in the End System table. Days looking back from midnight.

write Debug LOG:

This parameter is used for troubleshooting. If it is **true**, the file system of the XIQ-SE under **/dev/shm/** will be folder created, which use the Execution ID followed by the Workflow name. This directory contains a LOG file and corresponding JSON data for each activity.

Sanity check:

This is a test run where all functions are executed except for configuring the switch.

It is useful to run the workflow once a day via the schedule service. You can set this up by starting the workflow and entering the following in the second dialogue window.

Run Workflow - NAC_ES_name_to_port_alias_special

Schedule Task

Task Details

Task Name: NAC ES Name

Description:

Enabled: ☒

Recurrence Pattern

☐ Hourly ☒ Daily ☐ Weekly ☐ Monthly

At: 1:00 AM

Date/Time Range

Start:

End:

« Previous **Schedule Task** Save Task Cancel

If the setup was successful, you will find the following entry.

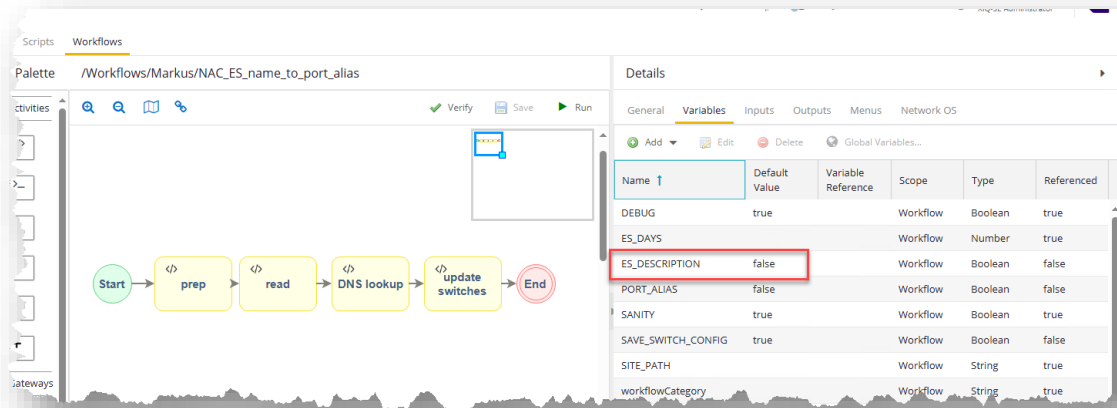
ExtremeCloud IQ Site Engine

Workflow Dashboard **Scheduled Tasks** Saved Tasks Scripts Workflows

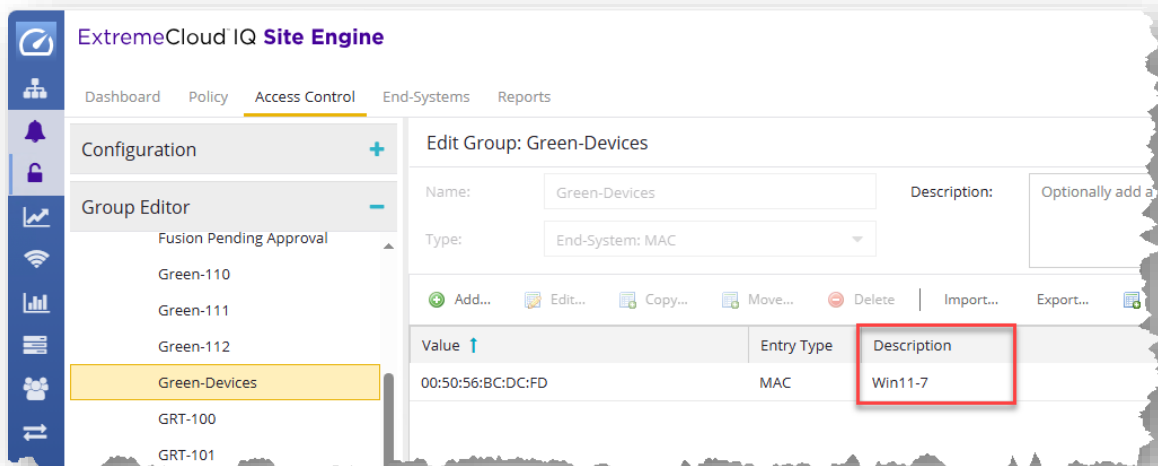
Add... Edit... Copy... Delete Run Refresh Disable SMTP...

Name	Scheduled	Information	Interval	Next Run ↑	Last Run	Status	Start Date/Time	End Date/Time
Scheduled Task - 11/15/202...		Scheduled Task - 11/15/202...	Daily		1/13/2025 11:00:00...	●		
NAC ES Name	✓	NAC ES Name - 0 Device:	Daily	1/17/2025 1:00:00 ...			1/16/2025 11:44:44...	

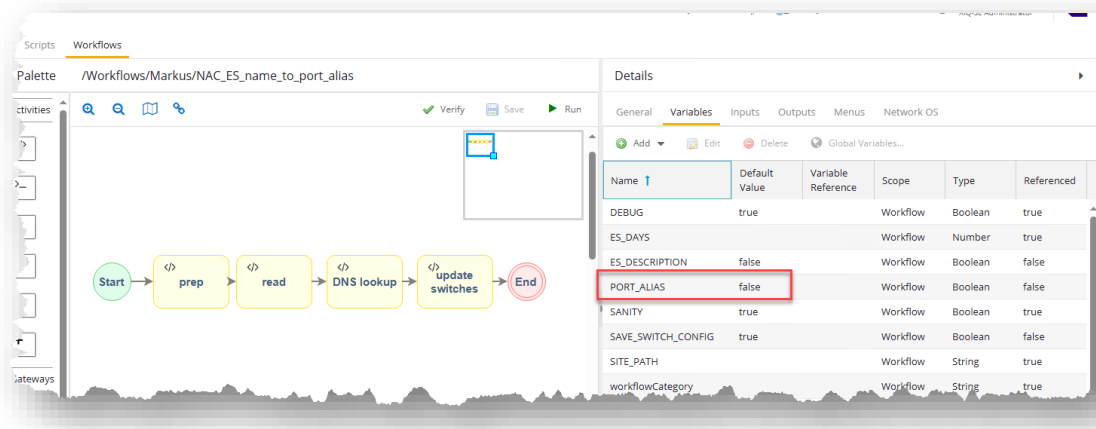
Optionally, it is possible to use the description of the MAC address as a fallback if the DNS FQDN is not given. To do this, the parameter **ES_DESCRIPTION** must be set to **true**.



If this is the case, the description is used as in the example below.



It is also possible to optionally set the port information before the host name. This can be useful for various monitoring software. If the parameter **PORT_ALIAS** is set to **true**, the feature is active.



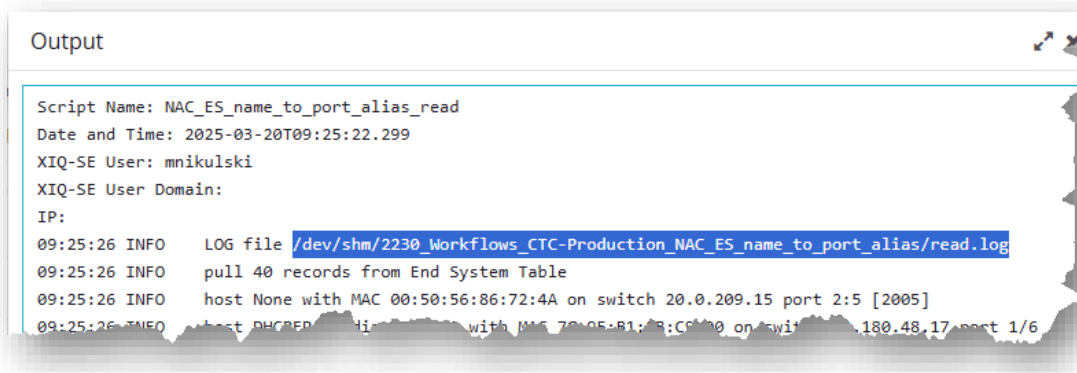
The screenshot shows a workflow editor with a sequence of steps: Start, prep, read, DNS lookup, update switches, and End. The 'Details' panel on the right displays a table of variables. The variable 'PORT_ALIAS' is highlighted in red, indicating it is the focus of the discussion.

Name	Default Value	Variable Reference	Scope	Type	Referenced
DEBUG	true		Workflow	Boolean	true
ES_DAYS			Workflow	Number	true
ES_DESCRIPTION	false		Workflow	Boolean	false
PORT_ALIAS	false		Workflow	Boolean	false
SANITY	true		Workflow	Boolean	true
SAVE_SWITCH_CONFIG	true		Workflow	Boolean	false
SITE_PATH			Workflow	String	true
workflowCategory			Workflow	String	true

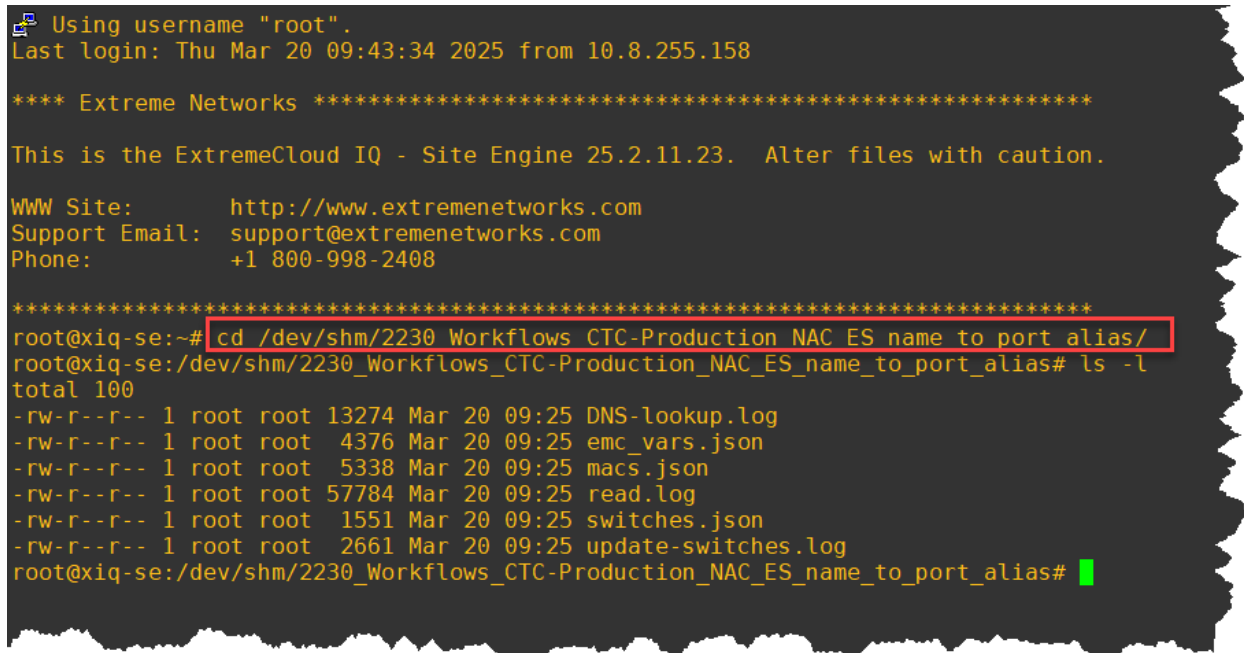
As an example **Win11-7** then the alias will be set to **1/6 Win11-7**.

Troubleshooting

Finally, before reporting an issue, please ensure that the workflow is configured for **DEBUG** mode. The data and debug LOG files can then be found on the XIQ-SE file system under **/dev/shm/<Execution-ID>_<Workflow-Name>/**. Note that only the last six execution debug logs will be held. The actual path can also be found in the each workflow activity log.



When SSH-ing XIQ-SE, the following log files should be present in the folder.



Please include all log files when reporting an issue.