#### **EXTREME NETWORKS**

# Onboard Mgmt VLAN XIQ-SE workflow

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#### **Onboard Mgmt VLAN XIQ-SE workflow**

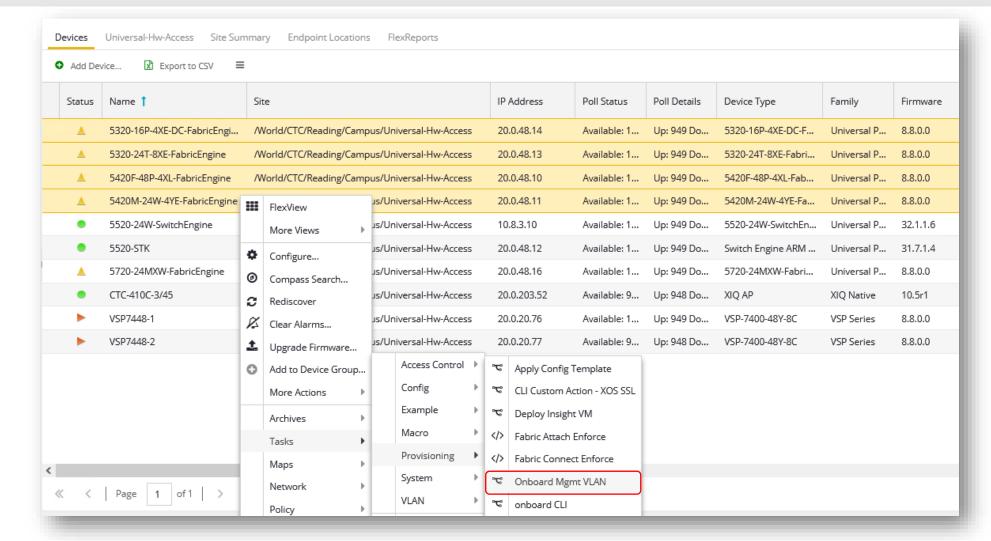


- Workflow to onboard a VOSS/Fabric Engine switch onto a dedicated switch mgmt VLAN/L2VSN
- Mgmt VLAN / I-SID and IP data extracted from CSV file previously placed on XIQ-SE
- Ability to change the switch sysname (SNMP and ISIS) at the same time
- Ability to set the auto-sense ISIS Hello authentication key during the IP mgmt change
- Ability to re-add the device into a different XIQ-SE site after the mgmt VLAN IP change
- Ability to launch a follow up workflow once this workflow has finished
- Requires minimum VOSS 8.5 (for mgmt convert support)

#### Workflow manual execution



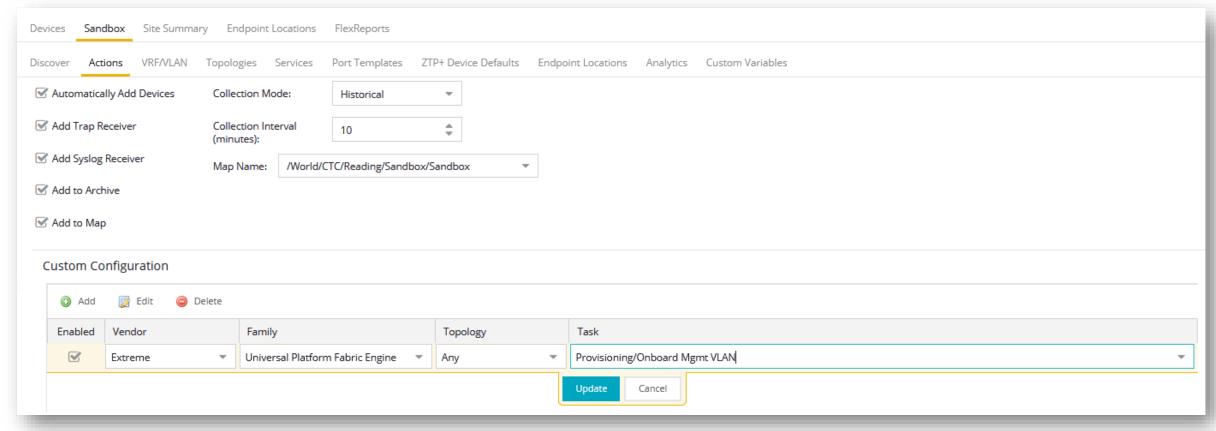
 Workflow can be manually run against 1 or many switches simultaneously



# Workflow automatic execution during onboarding



- Workflow can be automatically run after ZTP+ onboarding, under XIQ-SE Site Actions
- In this case script will always run against 1 switch only, the onboarding switch



#### Onboard Mgmt VLAN XIQ-SE workflow inputs

- A CSV file is uploaded to XIQ-SE beforehand
- CSV file has device data which can be device specific
- CSV data is looked up either by device initial (dhcp) IP or Serial Number or MAC Address
- CSV data can be referenced as \$<name> or \$(name) in workflow inputs
- Site variables can still also be referenced but as \${name}
- The CSV variable names are case sensitive

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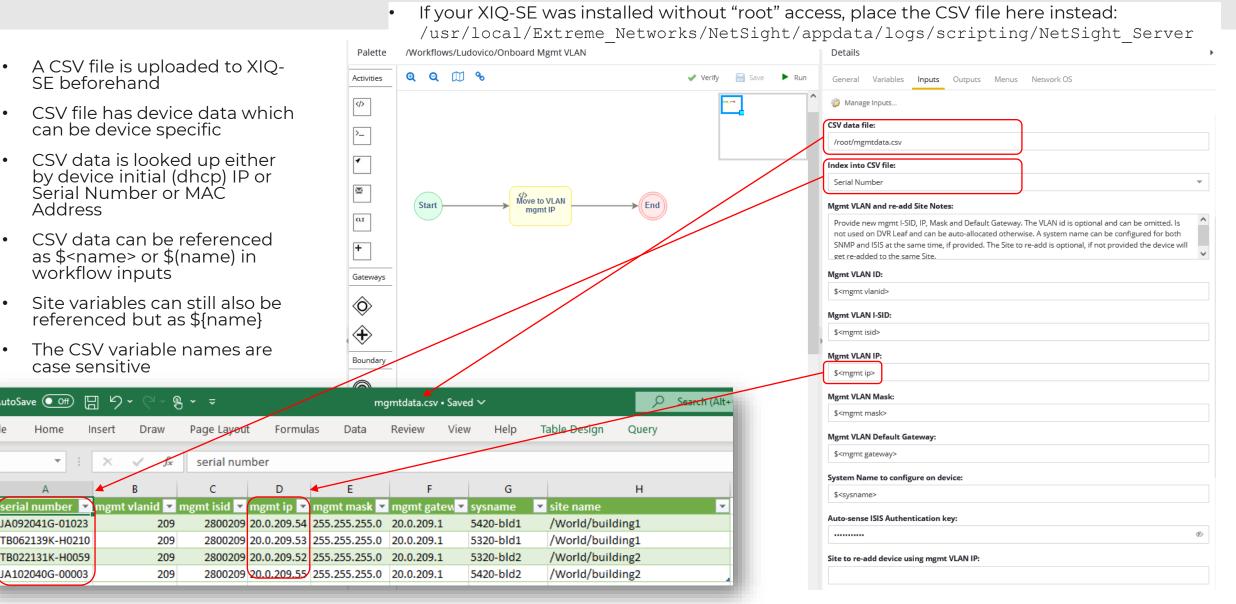
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TB062139K-H0210

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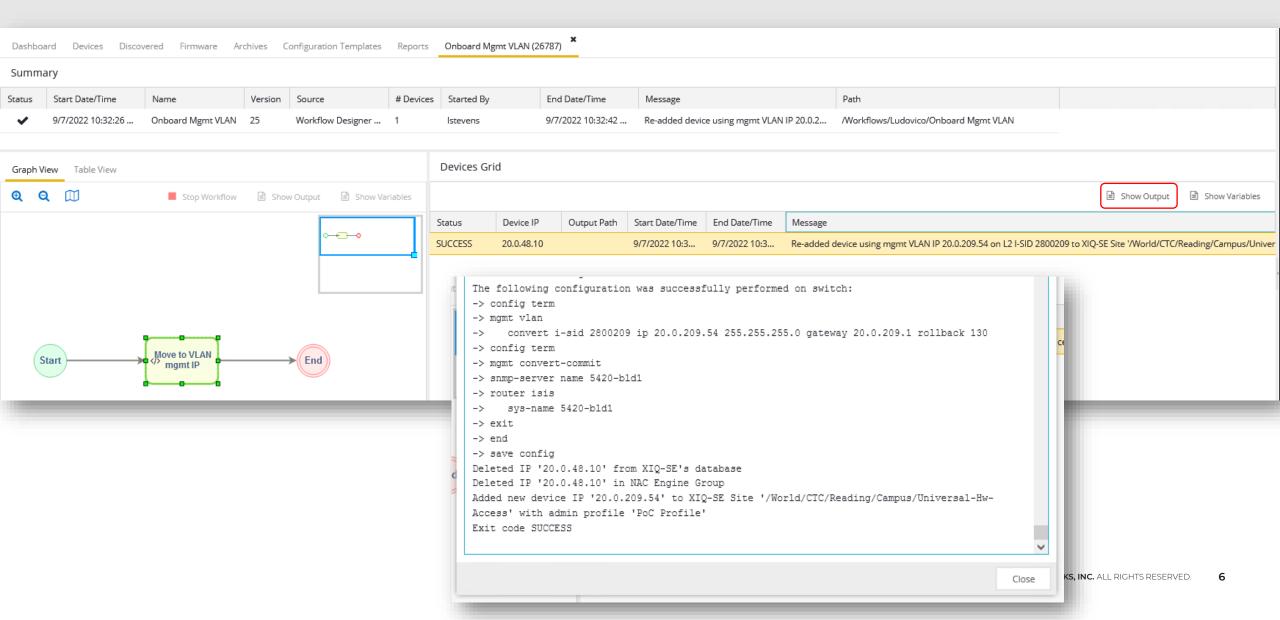
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Insert



#### Workflow execution

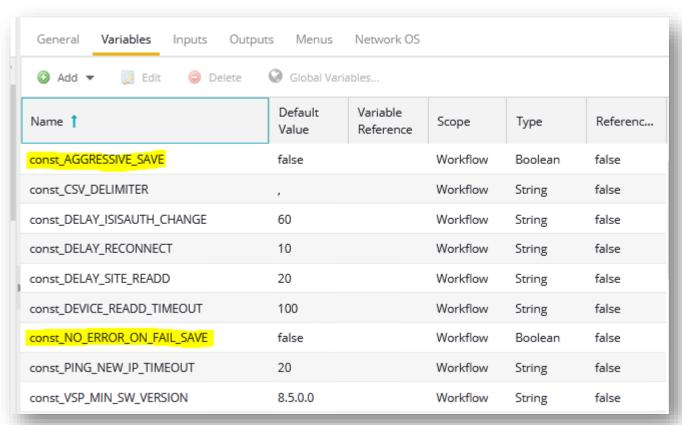




# Workflow tuning



- If the workflow is found to fail, because after all the changes it is unable to perform "save config" on the switch, this is because during onboarding XIQ-SE is also busy making changes and saving the config itself
  - On VOSS / Fabric Engine only 1 user at a time can perform "save config" or "show run"
- To avoid the workflow failures two variables can be set:
- const NO ERROR ON FAIL SAVE
  - If set, the workflow will still try and save the config at the end, but if unable to, the workflow will complete without any errors
- const\_AGGRESSIVE\_SAVE
  - If set, the workflow will try and save the config as before, 3 tries at 10sec intervals, but if these tries fail, all other CLI sessions will be kicked, and a final save is performed again, which will now succeed



# Workflow tuning 2



- If it is desired to allocate both mgmt VLAN IP and mgmt CLIP IP to devices onboarded into the same XIQ-SE site, both workflows "Onboard Mgmt VLAN" and "Onboard Mgmt CLIP" can be assigned to the same site for the same Fabric Engine/VOSS platforms.
- Then either configure each workflow to use a different CSV file, and ensure that a given switch is only found in one of the CSV files; and also set:
- const GRACEFUL EXIT IF NO SN
  - If set, the workflow will gracefully exit if the device lookup key was not found in the provided CSV file
- Or configure both workflows to use the same CSV file and ensure that in the CSV file a given switch is only allocated either a mgmt CLIP or a mgmt VLAN IP (not both); and also set:
- const\_GRACEFUL\_EXIT\_IF\_NO\_IP
  - If set, the workflow will gracefully exit if no Mgmt VLAN IP value was obtained from Site or CSV inputs

General <b>Variables</b> Inputs Outputs Menus Network OS					
Name †	Default Value	Variable Reference	Scope	Туре	Referenced
const_AGGRESSIVE_SAVE	false		Workflow	Boolean	false
const_CSV_DELIMITER	,		Workflow	String	false
const_DELAY_ISISAUTH_CHANGE	60		Workflow	String	false
const_DELAY_RECONNECT	10		Workflow	String	false
const_DELAY_SITE_READD	20		Workflow	String	false
const_DEVICE_READD_TIMEOUT	100		Workflow	String	false
const_GRACEFUL_EXIT_IF_NO_IP	false		Workflow	Boolean	false
const_GRACEFUL_EXIT_IF_NO_SN	false		Workflow	Boolean	false
const_NO_ERROR_ON_FAIL_SAVE	false		Workflow	Boolean	false
const_PING_NEW_IP_TIMEOUT	20		Workflow	String	false
const_VSP_MIN_SW_VERSION	8.5.0.0		Workflow	String	false



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