EXTREME NETWORKS

Onboard XOS XIQ-SE workflow

Ludovico Stevens

Technical Marketing Engineering

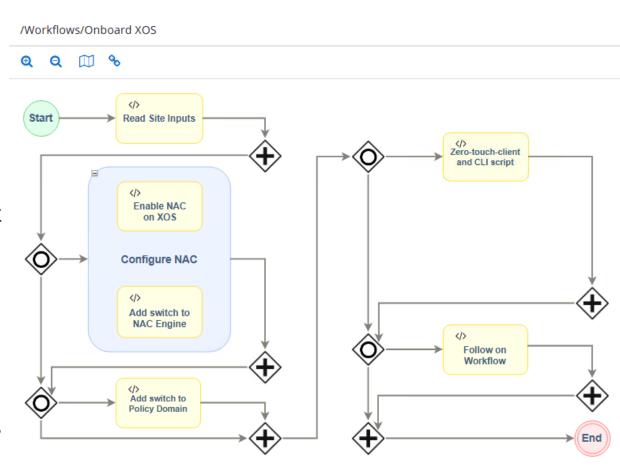
August 2025



Onboard XOS XIQ-SE workflow



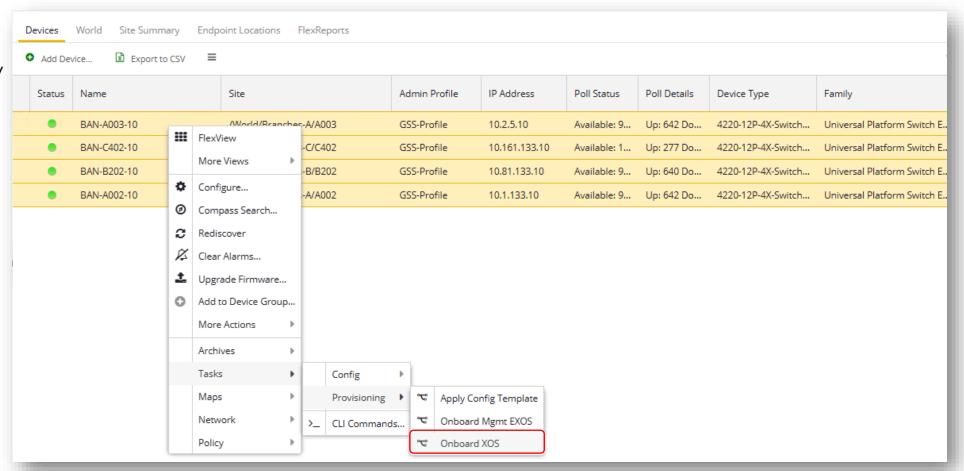
- This workflow can do any of the following
- Add switch to XIQ-SE Control + configure RADIUS on switch
- Add switch to Policy domain, including to VLAN Island topology
- Configure Fabric Attach and Zero-Touch-Client for WAPs
- Execute a custom CLI script with variables & logical operators
- Launch another workflow on completion
- All inputs can make use of site variables, csv variables, eval variables and emc_vars variables



Workflow manual execution



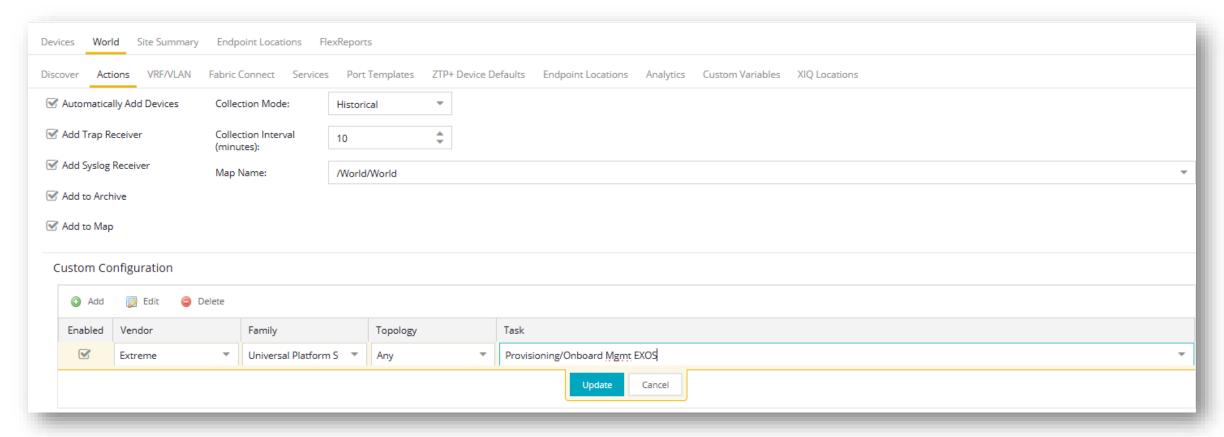
 Workflow can be manually run against 1 or many switches simultaneously



Workflow automatic execution during onboarding



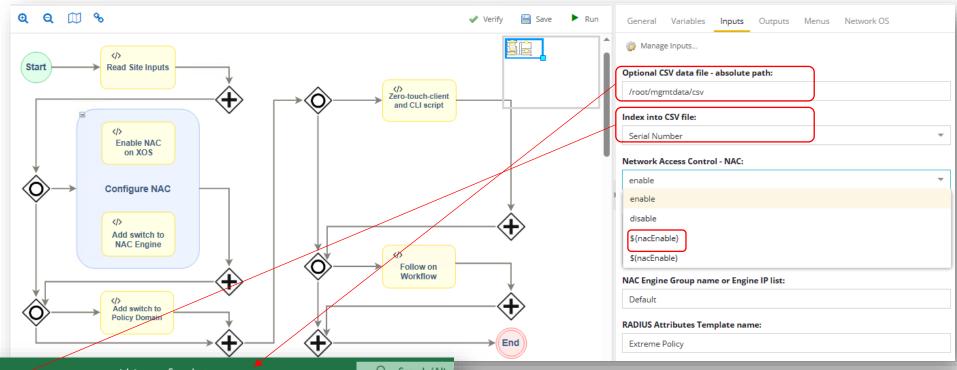
- Workflow can be automatically run after ZTP+ onboarding, under XIQ-SE Site Actions
- In this case script will always run against 1 switch only, the onboarding switch

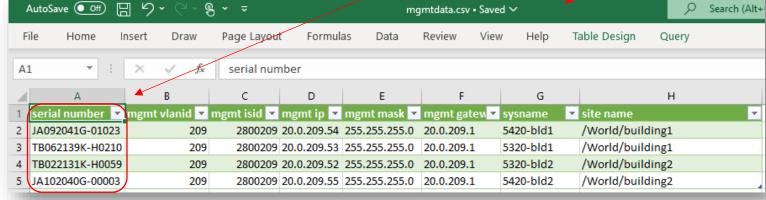


Onboard XOS XIQ-SE workflow inputs



- Optionally, 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





If your XIQ-SE was installed without "root"
access, place the CSV file here instead:
/usr/local/Extreme_Networks/NetSight/a
ppdata/logs/scripting/NetSight_Server

CSV data file input



Optional CSV data file - absolute path:

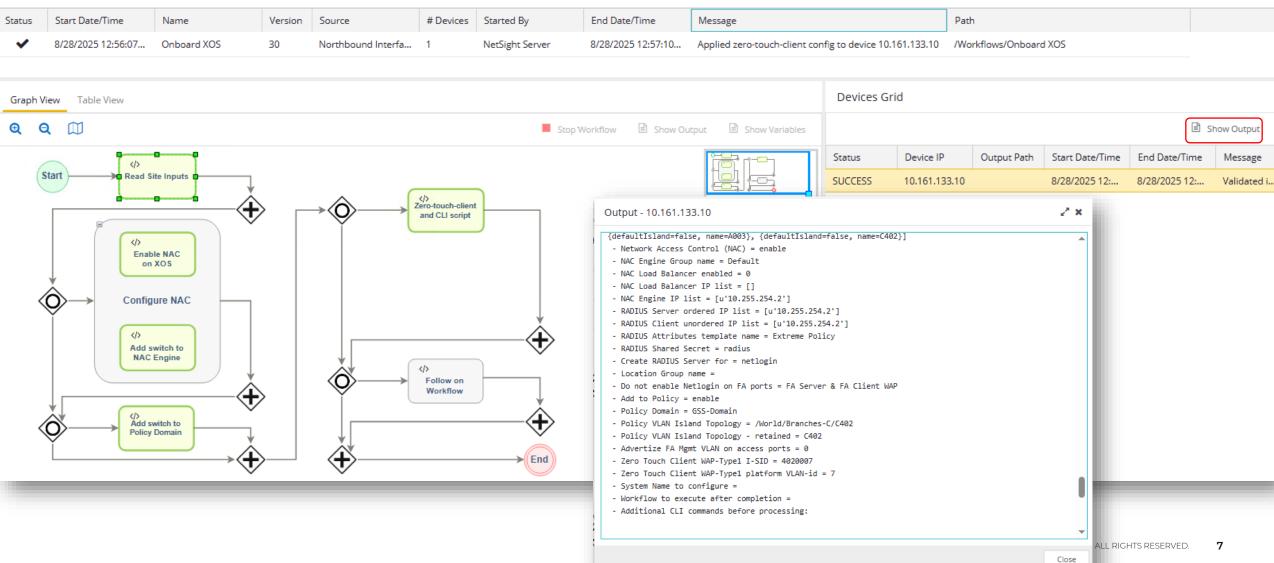
/root/mgmtdata.csv

- Available path variables: %rootDir%, %sitePath%, %siteName%
 - %rootDir% by default is /root/; can be changed via workflow variable const_ROOT_PATH_VAR
 - %sitePath% and %siteName% are set based on site path of device; e.g. if device is in "/World/CTC-Reading/VSP Sandbox" then %sitePath% = "World/CTC-Reading" and %siteName% = "VSP Sandbox"
- Can use these to have different CSV per site

Workflow execution







Additional CLI commands input / sample ->



#No need to start with enable, config term; commented lines are ignored #configure timezone name BST 1 autodst #configure snmp sysLocation \$<location> Additional CLI commands: #configure snmp sysContact "Master of Disaster!" #configure ssl certificate privkeylen 4096 country GB organization Extreme common-name EXOS #enable web https #No need to start with enable, config term; commented lines are ignored ##if ("5520-24" in \${deviceType} or "5420-24" in \${deviceType}) #clock time-zone US Eastern configure slpp guard ports 1-24 recovery-timeout none ##elseif("5520-48" in \${deviceType} or "5520-48" in \${deviceType}) #snmp-server location \$<location> configure slpp guard ports 1-48 recovery-timeout none ##end #snmp-server contact "Master of Disaster!"

- The additional CLI commands input can make use of the following variables:
 - Site variables **\${var}**: Useful to apply same values to all devices in same XIQ-SE Site. Or to apply same values to all devices in same sub-Sites
 - **Emc_vars** \${deviceIP}: Useful to feed some of these values into the same space as Site variables
 - CSV variables \$<var>: Useful to provide device specific values
 - Eval variables **\$[var]**: Useful to compute new values within the template file and be able to store and re-use these values via a variable
- The additional CLI commands input can make use of the following pragmas
 - #if/#elseif/#else/#end, #error fail|stop|continue, #eval / #eval <varname>=(), #sleep, #last
 - but not: #block start|execute
- Please refer to documentation of the Apply Config Template workflow here:
 - https://github.com/extremenetworks/ExtremeScripting/blob/master/XMC_XIQ-SE/oneview_workflows/xwf/Apply_Config_Template_Workflow.pdf



9