EXTREME NETWORKS

Onboard VSP XIQ-SE workflow

Ludovico Stevens

Technical Marketing Engineering

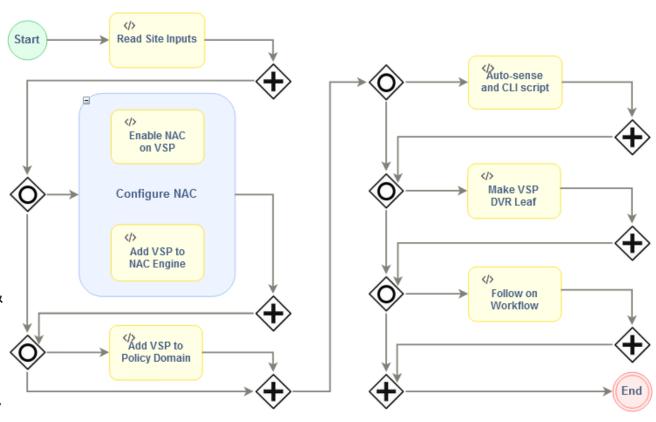
February 2025



Onboard VSP XIQ-SE workflow



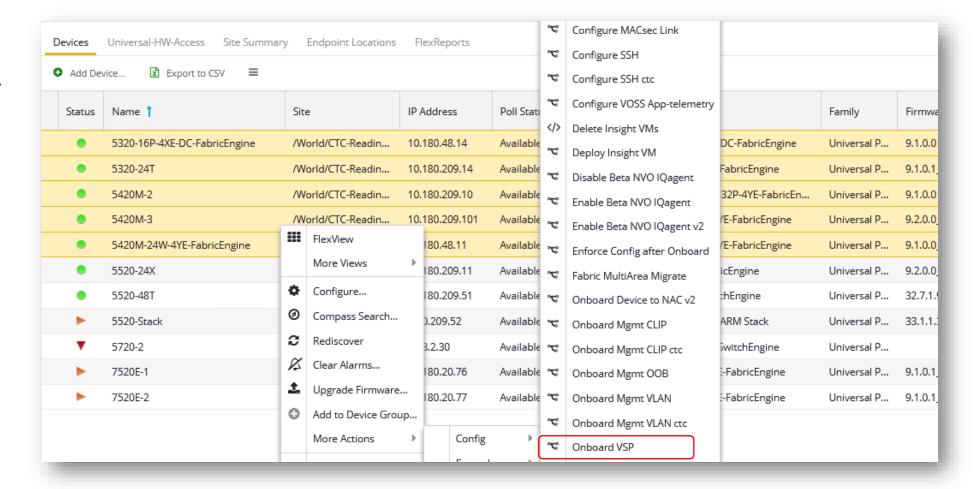
- This workflow can do any of the following
- Add switch to XIQ-SE Control + configure RADIUS on switch
- Add switch to Policy domain, including to VLAN Island topology
- Configure any of the global auto-sense parameters
- Convert the switch into a DVR-Leaf
- Execute a custom CLI script with variables & 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



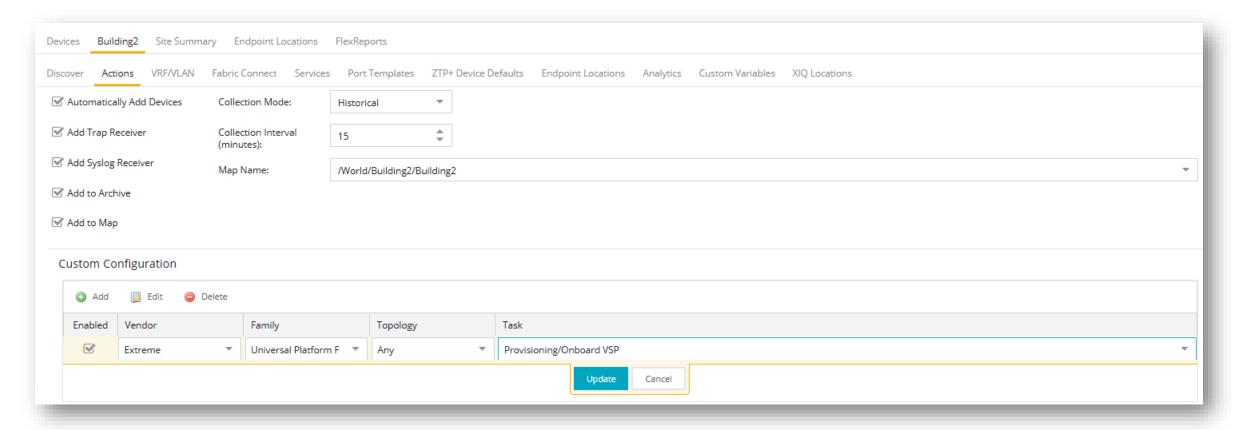
 Workflow can be manually run against 1 or many switches simultaneously



Workflow automatic execution during onboarding

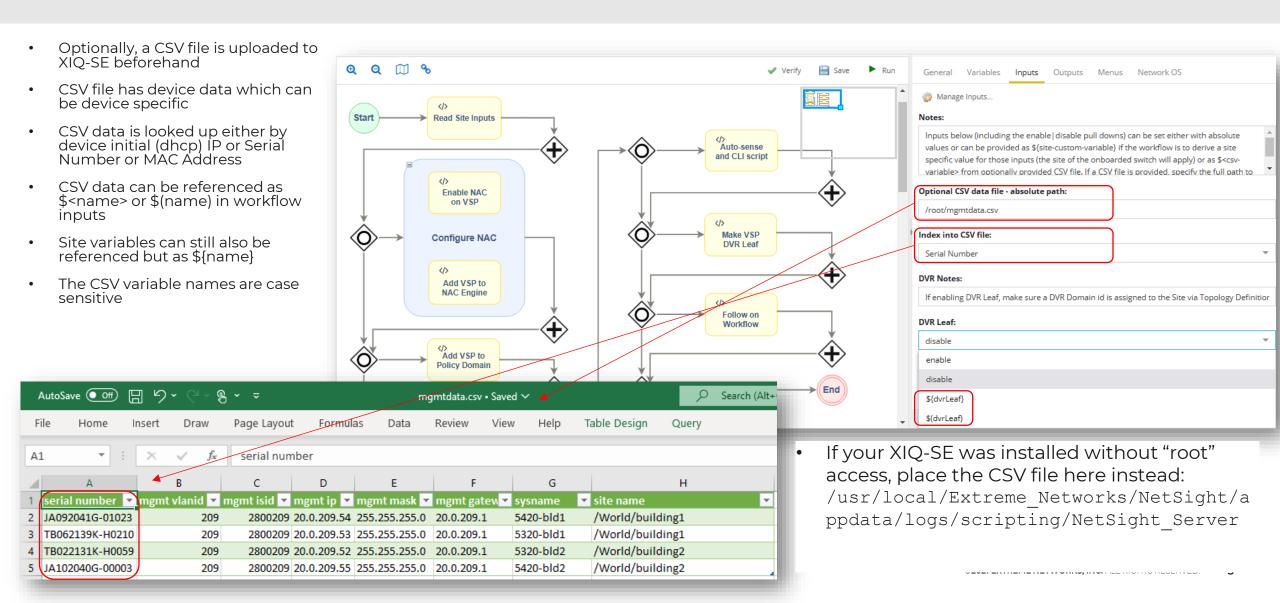


- Workflow can be automatically run after ZTP+ onboarding, under XIQ-SE Site Actions
- In this case script will always run against 1 switch only, the onboarding switch



Onboard VSP XIQ-SE workflow inputs





CSV data file input



Optional CSV data file - absolute path:

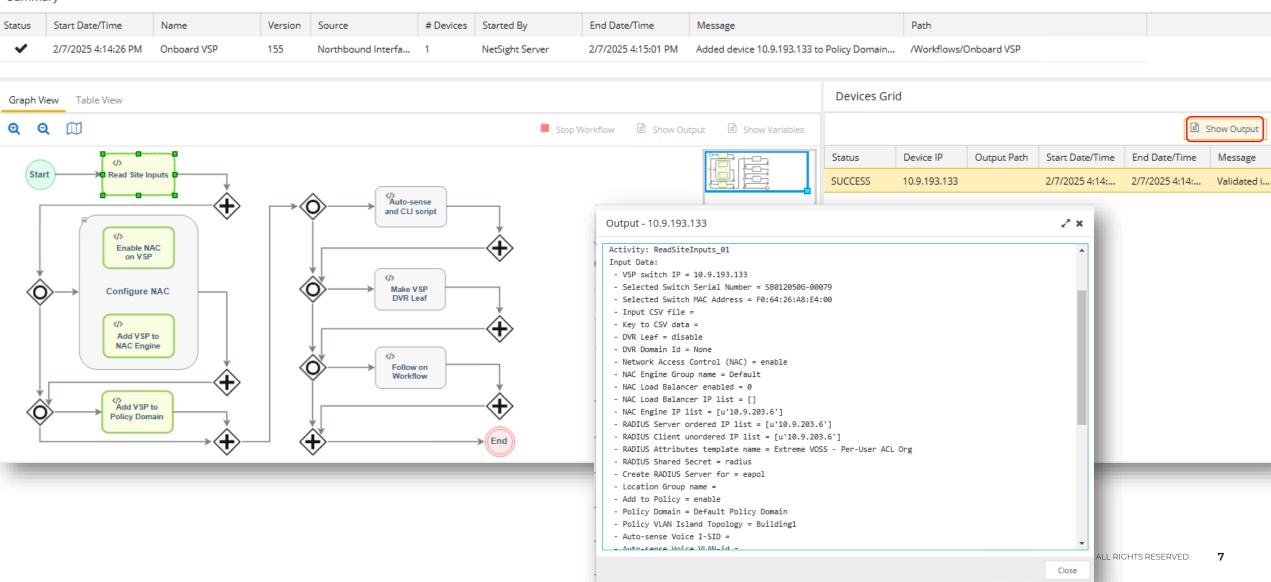
/root/mgmtdata.csv

- 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 →

Additional CLI commands:

#No need to start with enable, config term; commented lines are ignored #clock time-zone US Eastern
#snmp-server location \$<location>
#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

```
#No need to start with enable, config term; commented lines are ignored
clock time-zone US Eastern
snmp-server location $<location>
snmp-server contact "Master of Disaster!"
no snmp-server community-by-index first
no snmp-server community-by-index second
router isis; spbm 1 multicast enable; exit
auto-sense eapol voice lldp-auth
ip dhcp-snooping enable
web-server password ro user // password // password
web-server password rwa admin // password // password
      ("5520-24" in ${deviceType} or "5420-24" in ${deviceType})
               interface gigabitEthernet 1/1-1/24
                  no snmp trap link-status
                  slpp-quard enable timeout 0
                  spanning-tree bpduguard enable timeout 0
                  eapol re-authentication enable re-authentication-period 36000
#elseif("5520-48" in ${deviceType} or "5420-48" in ${deviceType})
               interface gigabitEthernet 1/1-1/48
                  no snmp trap link-status
                  slpp-guard enable timeout 0
                  spanning-tree bpduguard enable timeout 0
                  eapol re-authentication enable re-authentication-period 36000
               exit
```



9