

EXTREME NETWORKS

Onboard Mgmt CLIP XIQ-SE workflow

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Onboard Mgmt CLIP XIQ-SE workflow



- Workflow to onboard a VOSS/Fabric Engine switch onto a dedicated switch mgmt CLIP
- Mgmt CLIP extracted from CSV file previously placed on XIQ-SE
- Ability to change the switch sysname (SNMP and ISIS) at the same time
- 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 8.2 (for segmented mgmt support)

Workflow manual execution



- Workflow can be manually run against 1 or many switches simultaneously

The screenshot shows the 'Uni-Hw-Campus-map' interface with a table of devices. A context menu is open over the table, showing various actions. The 'Onboard Mgmt CLIP' option is highlighted with a red box.

Status	Name ↑	Site	IP Address	Poll Status	Poll Details	Device Type	Family	Firmware
▲	5320-16P-4XE-DC-FabricEngine...	World/CTC/Reading/Campus/Universal-Hw-Access	20.0.48.14	Available: 1...	Up: 1212 D...	5320-16P-4XE-DC-F...	Universal P...	8.8.0.0
▲	5320-24T-8XE-FabricEngine	us/Universal-Hw-Access	20.0.48.13	Available: 1...	Up: 1213 D...	5320-24T-8XE-Fabri...	Universal P...	8.8.0.0
▲	5420F-48P-4XL-FabricEngine	us/Universal-Hw-Access	20.0.48.10	Available: 1...	Up: 1212 D...	5420F-48P-4XL-Fab...	Universal P...	8.8.0.0
▲	5420M-24W-4YE-FabricEngine	us/Universal-Hw-Access	20.0.48.11	Available: 1...	Up: 1212 D...	5420M-24W-4YE-Fa...	Universal P...	8.8.0.0
●	5520-24W-SwitchEngine	us/Universal-Hw-Access	10.8.3.10	Available: 1...	Up: 1212 D...	5520-24W-SwitchEn...	Universal P...	32.1.1.6
●	5520-STK	us/Universal-Hw-Access	20.0.48.12	Available: 1...	Up: 1213 D...	Switch Engine ARM ...	Universal P...	31.7.1.4
▲	5720-24MXW-FabricEngine	us/Universal-Hw-Access	20.0.48.16	Available: 1...	Up: 1213 D...	5720-24MXW-Fabri...	Universal P...	8.8.0.0
●	CTC-410C-3/45	us/Universal-Hw-Access	20.0.203.52	Available: 9...	Up: 1208 D...	XIQ AP	XIQ Native	10.5r1
▶	VSP7448-1	us/Universal-Hw-Access		Up: 1213 D...		VSP-7400-48Y-8C	VSP Series	8.8.0.0
▶	VSP7448-2	us/Universal-Hw-Access		Up: 1212 D...		VSP-7400-48Y-8C	VSP Series	8.8.0.0

Context Menu Options:

- FlexView
- More Views
- Configure...
- Compass Search...
- Rediscover
- Clear Alarms...
- Upgrade Firmware...
- Add to Device Group...
- More Actions
- Archives
- Tasks
- Maps
- Network
- Policy
- Access Control
- Config
- Example
- Macro
- Provisioning
- System
- VLAN
- Apply Config Template
- CLI Custom Action - XOS SSL
- Deploy Insight VM
- Fabric Attach Enforce
- Fabric Connect Enforce
- Move to CLIP Mgmt IP
- Onboard Mgmt CLIP
- Onboard Mgmt VLAN
- onboard CLI

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

The screenshot displays the 'Sandbox' configuration page in the XIQ-SE interface. The 'Actions' tab is selected, showing various workflow settings. Below the main configuration area, the 'Custom Configuration' section contains a table for defining tasks.

Configuration Settings:

- ☒ Automatically Add Devices: Collection Mode: Historical
- ☒ Add Trap Receiver: Collection Interval (minutes): 10
- ☒ Add Syslog Receiver: Map Name: /World/CTC/Reading/Sandbox/Sandbox
- ☒ Add to Archive
- ☒ Add to Map

Custom Configuration Table:

Enabled	Vendor	Family	Topology	Task
<input checked="" type="checkbox"/>	Extreme	Universal Platform Fabric Engine	Any	Provisioning/Onboard Mgmt CLIP

Buttons: Add, Edit, Delete, Update, Cancel

Onboard Mgmt CLIP 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>` in workflow inputs
- Site variables can still also be referenced but as `$(name)`

Column1	Column2	Column3	Column4
serial number	mgmt clip	sysname	site name
JA092041G-01023	20.0.209.54	5420-bld1	/World/building1
TB062139K-H0210	20.0.209.53	5320-bld1	/World/building1
TB022131K-H0059	20.0.209.52	5320-bld2	/World/building2
JA102040G-00003	20.0.209.55	5420-bld2	/World/building2

Workflow: /Workflows/Ludovico/Onboard Mgmt CLIP

Activities: Start → Move to CLIP mgmt IP → End

Details: Inputs

Manage Inputs...

Inputs below can be set either with absolute values or can be provided as `$(site-custom-variable)` if the workflow is to derive a site specific value for those inputs. The site of the onboarded VSP, and parent sites, will apply. Or alternatively as `$(derived-from-csv)` to derive a device specific value extracted from the supplied CSV file.

CSV data file:
/root/Ludo/mgmtdata.csv

Index into CSV file:
Serial Number

Mgmt CLIP and re-add Site Notes:
Provide new mgmt CLIP and associated VRF. The VRF is optional and can be omitted in which case GRT will apply. It is assumed that initially the switch will have a mgmt IP on the onboarding VLAN; this mgmt VLAN IP can be kept or deleted. A system name can be configured for both SNMP and ISIS at the same time, if provided. The Site to re-add is optional, if not provided the device will get re-added to the same Site.

Mgmt CLIP VRF:
GlobalRouter

Mgmt CLIP IP:
\$(mgmt clip)

Existing mgmt VLAN IP:
Delete

System Name to configure on device:
\$(sysname)

Site to re-add device using mgmt VLAN IP:

Follow on workflow notes:
If it is desired to launch another workflow after this one has completed, provide the workflow path/name like for example (without the quotes): "Provisioning/Onboard VSP"

Follow on workflow to execute:

Workflow execution



Dashboard Devices Discovered Firmware Archives Configuration Templates Reports **Onboard Mgmt CLIP (26863)**

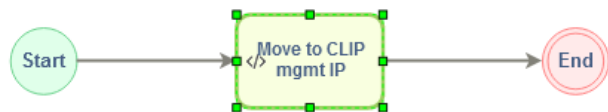
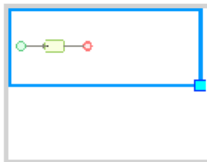
Summary

Status	Start Date/Time	Name	Version	Source	# Devices	Started By	End Date/Time	Message	Path
✓	9/8/2022 9:22:54 AM	Onboard Mgmt CLIP	5	Workflow Designer ...	1	Istevens	9/8/2022 9:23:11 AM	Re-added device using mgmt CLIP 20.0.66.6...	/Workflows/Ludovico/Onboard Mgmt CLIP

Graph View Table View



Stop Workflow Show Output Show Variables



Devices Grid

Show Output Show Variables

Status	Device IP	Output Path	Start Date/Time	End Date/Time	Message
SUCCESS	20.0.48.10		9/8/2022 9:22:...	9/8/2022 9:23:...	Re-added device using mgmt CLIP 20.0.66.66 to XIQ-SE Site '/World/CTC/Reading/Campus/Universal-Hw-Access'

The following configuration was successfully performed on switch:

```
-> config term
-> mgmt clip vrf GlobalRouter
->   ip address 20.0.66.66/32
->   enable
-> exit
-> config term
-> mgmt vlan
->   no ip address 20.0.48.10
-> exit
-> snmp-server name 5420-bld1
-> router isis
->   sys-name 5420-bld1
-> exit
-> end
-> save config
Deleted IP '20.0.48.10' from XIQ-SE's database
Deleted IP '20.0.48.10' in NAC Engine Group
Added new device IP '20.0.66.66' to XIQ-SE Site '/World/CTC/Reading/Campus/Universal-Hw-Access' with admin profile 'PoC Profile'
Exit code SUCCESS
```

Close

