

# Service Release Notes

## WiNG 5.9.4.3-002R

### IMPORTANT

Service releases are made available to fix specific customer reported issues in a timely manner. Service releases are not as extensively tested as main releases such as **5.9.4.0-020R**. The next maintenance or manufacturing release will incorporate all qualifying and preceding service releases.

This document is an addendum to the release notes for the main release 5.9.4.0-020R.

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### Features

#### SSH Proxy and Web Proxy for allowing configuration of WiNG devices from XIQ

This release introduces a mechanism to manage WiNG devices from XIQ. Any WiNG controller that is onboarded to XIQ supports this feature. Users can use SSH proxy option on XIQ to open SSH connection with WiNG controller for accessing CLI. Similarly, users can WEB proxy option on XIQ to launch the GUI of WiNG controller from XIQ. Users can use their existing credentials to access WiNG CLI or GUI. This feature is also supported on WiNG access points configured in Virtual Controller mode. by allowing access to WiNG CLI and WiNG WEB GUI by setting up a secure connection on demand using Reverse SSH tunnel between XIQ and WiNG Controllers.

**This feature extends the “WiNG-XIQ Secure Communication” feature released in WiNG-5.9.4.2. Any WiNG firmware version prior to WiNG-5.9.4.2 will continue to establish unsecure communication with XIQ and should be used only in non-production environments only.**

#### Commands

1. Configuring XIQ URL

WiNG uses existing NSight policy server command for XIQ communication. The same command can be set to XIQ URL va-gcp-wing.extremecloudiq.com.

```
vx9000-8D09E7(config)#nsight-policy CLIENT
vx9000-8D09E7(config-nsight-policy-CLIENT)#show context
nsight-policy CLIENT
server host 10.234.165.41 https
```

```
vx9000-8D09E7(config-nsight-policy-CLIENT)#no server host 10.234.165.41
vx9000-8D09E7(config-nsight-policy-CLIENT)#commit
vx9000-8D09E7(config-nsight-policy-CLIENT)#server host va-gcp-
wing.extremecloudiq.com https enforce-verification poll-work-queue
vx9000-8D09E7(config-nsight-policy-CLIENT)#commit write memory
vx9000-8D09E7(config-nsight-policy-CLIENT)#
```

## 2. Installing/updating XIQ CA certificate

This is a new command to install/update XIQ CA certificate on WiNG devices.

```
CORP-WING1# copy xiq-cachain from ?
URL Location of CA certificate
URLs: tftp://<hostname|IP>[:port]/path/file
      ftp://<user>:<passwd>@<hostname|IP>[:port]/path/file
      sftp://<user>:<passwd>@<hostname|IP>[:port]/path/file
      http://<hostname|IP>[:port]/path/file
      cf:/path/file
      usb<n>:/path/file
IPv6 URLs: tftp://<hostname|[IPv6]>[:port]/path/file
           ftp://<user>:<passwd>@<hostname|[IPv6]>[:port]/path/file
           sftp://<user>:<passwd>@<hostname|[IPv6]>[:port]/path/file
           http://<hostname|[IPv6]>[:port]/path/file
```

## 3. Enforcing security and encryption

The existing configuration command for specifying NSight Server (or XIQ) URL will have additional optional parameter **enforce-verification** in order to trigger certificate validation process.

- If parameter is not configured, then WiNG device shall try to establish connection with a NSight server using existing mechanism.
- If parameter is configured, then WiNG device shall try to establish connection with XIQ by validating XIQ certificate and username/password-based authentication.

```
vx9000-8D09E7#show run nsight-policy CLIENT
nsight-policy CLIENT
server host va-gcp-wing.extremecloudiq.com https enforce-verification
vx9000-8D09E7#
```

## 4. Configuring SSH proxy and WEB proxy features

The existing configuration command for specifying NSight Server (or XIQ) URL will have additional optional parameter **poll-work-queue** in order to allow manageability of WiNG devices from XIQ.

```
vx9000-8D09E7#show run nsight-policy CLIENT
nsight-policy CLIENT
server host va-gcp-wing.extremecloudiq.com https enforce-verification poll-work-
queue
vx9000-8D09E7#
```

Following command shows the status of SSH proxy connection with XIQ

```
#show cloud-remote-sessions
SSH session:
  Server: 35.245.93.182:20256
  Remote Listener Port: 20130
  ContextID: OHZiiPB0wB
  Expires In: 00 hr 04 min 55 sec
WEB session:
  Server: 35.245.93.182:20256
  Remote Listener Port: 20152
  ContextID: YBhQ0g3okp
  Expires In: 00 hr 04 min 56 sec
```

## Fixes

None

## Platforms Support

Supported in this release,

- WING-XIQ secure communications  
AP6522, AP6562, AP7502, AP7522, AP7532, AP7562, AP7602, AP7612, AP7622, AP7632, AP7662,  
AP8163, AP8432, AP8533, RFS4000, NX5500, NX7500, NX9500, NX9600, VX9000

## Notes

This WiNG release is compatible with XIQ release Q2R2 version 20.5.0.22 and above.