

Service Release Notes

WiNG 5.9.8.2-004R

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 **5.9.8.0-003R**. 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 5.9.8.0-003R.

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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.

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

Fixed Issues

Following customer issues are fixed.

ESR/SPR	Description
WING-42947	AP7532 v5.9.8 Radio 1 LED Pattern After Shut
WING-43124	Flooding of peer_id prints during running of service pktcap.
WING-42827	Wireshark shows malformed packet captured on radio
WING-42956	AP7632 causing Protection ripple
WING-42910	SSH Proxy support of WiNG devices to enable SSH and HTTPS connectivity from XIQ
WING-42846	AP7522 kernel panics during configuration. PC is at __bug+0x1c/0x28 LR is at __bug+0x18/0x28
WING-41986	AP7662 stuck in radar scan after DFS event
WING-42550	AP8432 low upload speed from MacBook
WING-42695	AP7632 panic Take care of the TARGET ASSERT first
WING-43211	CFGD crash on AP8163 running as Virtual Controller
WING-43232	AP8533 Smart-RF never picks channel 1 for any Aps
WING-43408	Some users have lost their "ROLE after roaming
WING-43278	AP7532s going offline after upgrade to 5.9.8.1

Platforms Support

Supported in this release,

AP8163, AP7502, AP7522, AP7532, AP7562, AP7602, AP7612, AP7622, AP7632, AP7662, 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.