

Extreme NSight 5.9.3.1-007R Service Release Notes

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***Please Note:** 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 5.9.3.0-007R). The next maintenance will incorporate all qualifying and preceding service releases. This document is an addendum to the release notes for the main release 5.9.3.0-007R*

1. OVERVIEW

Extreme NSight is a software application providing network visibility, service assurance and analytics capabilities for Extreme Wireless WiNG access points. Extreme NSight 5.9.3.1 is a service release which includes customer critical fixes and following enhancement:

New Rest API support – AP information/status:

A new API nsight-ui/api/v1/ap_info is added which can take either of the two input parameters: 'mac' or 'name', where 'mac' refers to any device/wlan/bluetooth mac address and 'name' refers to the hostname of any device. **Important: WiNG 5.9.7 release is required to support this functionality.**

For example:

'http://<nsight ip>/nsight-ui/api/v1/ap_info?name=ap8533-5C21F1'

'http://<nsight ip>/nsight-ui/api/v1/ap_info?mac=74-67-F7-5C-21-F1'

Output of this API will be in below format:

```
{
  "count": 1,
  "data": [
    {
      "ip4": "192.168.200.92",
      "ip6": [],
    }
  ]
}
```

```

"mac": "74-67-F7-5C-21-F1",
"mac_type": "device",
"name": "ap8533-5C21F1",
"radio": [
  {
    "mac": "74-67-F7-71-62-F0",
    "mode": "2.4 GHz",
    "status": "on",
    "type": "wireless"
  },
  {
    "mac": "74-67-F7-6D-4F-10",
    "mode": "5 GHz",
    "status": "on",
    "type": "wireless"
  },
  {
    "mac": "74-67-F7-71-73-60",
    "mode": "sensor",
    "status": "off",
    "type": "wireless"
  },
  {
    "mac": "74-67-F7-5C-21-F5",
    "mode": "bt-sensor",
    "status": "off",
    "type": "bluetooth"
  }
],
"rfd": "rfs",
"state": "online",
"type": "ap8533"
}
],
"success": true
}

```

2. PLATFORMS SUPPORTED

Extreme NSight release 5.9.3.1 is a VM based firmware image for Extreme NSight application.

Virtual Platform	Firmware Image
Extreme NSight	ExtremeNSight-5.9.3.1-007R.img ExtremeNSight-INSTALL-5.9.3.1-007R.iso UpgradeVX9000ToExtremeNSight.patch

The Supported Hypervisors for Extreme NSight installation are VMware ESXi 5.5 (and above) and Microsoft Hyper-V.

3. EXTREME NSIGHT MIGRATION, DATABASE BACKUP AND RESTORE

Please refer to the Extreme NSight 5.9.3 User Guide for more detailed information.

3.1 Converting WiNG VX9000 NSight server to Extreme NSight 5.9.3.x

Existing WiNG NSight deployments on VX9000 can be converted to Extreme NSight platform by following the below procedure.

Note:

- WiNG controller as an Arbiter is not recommended, use Extreme NSight VM as Arbiter to avoid database synchronization issues.
- The below procedure holds good for converting VX9000 based Standalone/3 Node Replica Set/Split-VX NSight Deployment.

1. Converting WiNG VX9000 NSight server to Extreme NSight 5.9.3:

- a. Install Migration patch 'UpgradeVX9000ToExtremeNSight.patch' on all VX9000 running WiNG 5.9.3 firmware.

```
VX9000 #upgrade UpgradeVX9000ToExtremeNSight.patch
```

```
VX9000 #show boot (To confirm patch is installed)
```

- b. Install ExtremeNSight-5.9.3.0-007R.img using the upgrade command.

Note: "DO NOT" reboot the devices.

```
VX9000 #upgrade <ftp/tftp path>ExtremeNSight-5.9.3.0-007R.img
```

- c. In Case of Standalone VX9000, Reboot using "VX9000 #reload" command.
d. In Case of 3 Node Replica Set or Split VX continue with the below steps.
e. Reboot the Arbiter and wait for the device to come up and join the replica-set.
f. Disable Extreme NSight server on both Primary and Secondary replica-set member:

```
Primary #self
```

```
Enter configuration commands, one per line. End with CNTL/Z.
```

```
Primary (config-device-00-0C-AA-BB-CC-DD)# no use nsight-policy
```

```
Primary (config-device-00-0C-AA-BB-CC-DD)#commit write mem
```

```
Primary (config-device-00-0C-AA-BB-CC-DD)#end
```

```
Secondary #self
```

```
Enter configuration commands, one per line. End with CNTL/Z.
```

```
Secondary (config-device-00-0C-BB-CC-DD-EE)# no use nsight-policy
```

```
Secondary (config-device-00-0C-BB-CC-DD-EE)# commit write mem
```

```
Secondary (config-device-00-0C-BB-CC-DD-EE)#end
```

2. Reboot the "Primary" replica-set member and wait for the device to come up and join the replica-set. Make sure that the replica-set is up. Use the below-mentioned command to verify:

```
Primary#show database status
```

```
-----  
MEMBER                STATE                ONLINE TIME  
-----  
10.10.10.1*          PRIMARY              0 hours 3 min 10 sec  
10.10.10.2            SECONDARY            12 hours 05 min 40 sec  
10.10.10.3            ARBITER              0 hours 15 min 11 sec  
-----
```

[*] indicates this device.

3. Reboot the “Secondary” replica-set member and wait for the device to come up and join the replica-set. Make sure that the replica-set is up using “show database status “ command.
4. Enable Extreme NSight Server on primary and then on secondary replica-set member:

Primary #self

Enter configuration commands, one per line. End with CNTL/Z.

```
Primary (config-device-00-0C-AA-BB-CC-DD)# use nsight-policy <name>
```

```
Primary (config-device-00-0C-AA-BB-CC-DD)#commit write mem
```

```
Primary (config-device-00-0C-AA-BB-CC-DD)#end
```

Secondary #self

Enter configuration commands, one per line. End with CNTL/Z.

```
Secondary (config-device-00-0C-BB-CC-DD-EE)# use nsight-policy <name>
```

```
Secondary (config-device-00-0C-BB-CC-DD-EE)#commit write mem
```

```
Secondary (config-device-00-0C-BB-CC-DD-EE)#end
```

5. Confirm NSIGHT License, Network IP address are configured correctly on Extreme NSight.
6. Make sure that the Extreme NSight services are running on Primary and Secondary servers:
 - a. To check NSight process is running fine, check for “is running”

```
ExtremeNSight# show nsight status
```

```
Nsight is enabled
```

```
Nsight report and aggregation daemon is running
```

```
Nsight alarm daemon is running
```

```
Nsight server daemon is running
```

```
Database server is local
```

```
Database server is reachable
```

- b. To check mongod process is running fine use “service show process”

```
ExtremeNSight# service show process | grep mongo
```

```
1351 S 8375584 1 3.1 25.4 mongod
```

- c. To check “nsight_server”, “nsightd” process are running fine

Use “service show process” to confirm. Below are some key processes listed for reference (Note: The actual number of threads will vary):

```
ExtremeNSight# service show process | grep nsight
```

```
2195 S 83244 2072 0.0 0.2 nsight_server-g
```

```
2216 S 78648 2072 0.0 0.2 nsight_server-w
```

```
2221 S 78472 2072 0.0 0.2 nsight_server-n
```

```
2201 S 64996 2072 0.0 0.1 nsight_server-s
```

```
2072 S 53620 2064 0.0 0.1 nsight_server
```

```
2022 S 20564 2006 0.0 0.0 nsightd
```

```
2080 S 20348 2022 0.0 0.0 nsightd-aggr-ap
```

```
2083 S 19704 2022 0.0 0.0 nsightd-aggr-mu
```

```
2121 S 18864 2022 0.0 0.0 nsightd-aggr-tc
```

```
2116 S 18192 2022 0.0 0.0 nsightd-aggr-dn
```

```
2124 S 17788 2022 0.0 0.0 nsightd-aggr-dh
```

```
2127 S 17556 2022 0.0 0.0 nsightd-alive-d
```

```
2110 S 17532 2022 0.0 0.0 nsightd-aggr-av
```

```
2125 S 17464 2022 0.0 0.0 nsightd-col-exp
```

```
2128 S 17448 2022 0.0 0.0 nsightd-kms
```

3.2 Downgrade Extreme NSight to WiNG VX9000:

Extreme NSight **Does Not** support downgrade to WiNG Release once WiNG VX9000 has been converted to Extreme NSight.

3.3 Export Database from NX9500/NX9600/VX9000 to new Extreme NSight 5.9.3.0

Existing WiNG NSight deployments on NX9500/NX9600/VX9000 can be migrated to Extreme NSight platform by following the below procedure.

1. Export NSight Database from the current NX9500/NX9600/VX9000 on WiNG 5.9.2 and above to an external FTP/TFTP server.
 - a. Import database using restore command

```
NX9600# database-backup database nsight <ftp/tftp path>nsightdb.tar.gz
```
 - b. Use “show database backup-status” to check status.
2. Create Extreme NSight 5.9.3 VM following your hypervisors instructions for installing Virtual Machine using “ExtremeNSight-INSTALL-5.9.3.0-007R.iso” image.
3. Import the NSight Database previously exported on to the newly created Extreme NSight 5.9.3 VM.
 - a. Confirm database policy is configured using “show database status”.
 - b. Confirm that NSight policy is “NOT” configured using “show nsight status”.
 - c. Import database using restore command.

```
ExtremeNSight# database-restore database nsight <ftp/tftp path>nsightdb.tar.gz
```
 - d. Use “show database restore-status” and “show database status” to check status.

3.4 Migrating WiNG + NSight Server VX9000 to a new WiNG controller

In case where WiNG and NSight Server are running on the same VX9000 and customer wants to migrate WiNG adoption to a new WiNG controller and use the existing VX9000 as Extreme NSight.

1. Host a new VX9000-02 (5.9.3.0-018R) and install WiNG Adoption licenses.
2. Migrate configurations from VX9000-01 to VX9000-02, Updating IP address needs to be taken into consideration.
3. For ExtremeNsight server - nsight-policy should be configured with "nsight-server standalone", so that https post updates (insert-rfd, location tree, ping) are not sent to NSight server (self).
4. Configure auto-provisioning policy on VX9000-01 with redirect elements for adopting devices. Enable “evaluate-always”.
5. Start deleting adopted device context from VX9000-01 WiNG controller.
6. Let the adopting devices migrate/adopt to the new WiNG controller VX9000-02.
7. Make sure that the devices get the new controller IP.
8. Confirm that all AP’s have migrated and adopted to the new WiNG controller.
9. Follow the steps mentioned in “Converting WiNG VX9000 NSight server to Extreme NSight 5.9.3.0”

- a. Upgrade VX9000-01 with migration script:
"UpgradeVX9000ToExtremeNSight.patch".
- b. Upgrade VX9000-01 with Extreme NSight 5.9.3 image.

4. ISSUES FIXED

Following issues have been fixed in Extreme NSight 5.9.3.1 release:

SPR/CR	Description
SPR-3565	AP MAP ICON missing color to differentiate AP from floor MAP blank space
SPR-3569	GUI accessible on ports 9998, 9999 and 10000
SPR-3572	Month reports are always generated for 30 days
SPR-3611	Radio Health Summary report does not show Power changes and Channel changes
SPR-3614	Dashboard description name not persistent
SPR-3617	Monitor page displays incorrect worst AP's by Channel Utilization graph
SPR-3620	Allowed locations does not restrict global search for AP, Sites and Clients
SPR-3651	When NSIGHT Primary Controller falls over, Secondary report no Licenses available
SPR-3689	Controller not termination NSight session for any troubleshooting tool
NSIG-47	Map View page refreshes every 60 seconds
NSIG-90	While selecting a scope for a report dropdown window closes for each selection
NSIG-96	Unable to see delete button on generated reports page
NSIG-100	Multiple select buttons for generated reports of AP test and ASA
NSIG-103	Split-VX Wireless debug logs throws error during websocket handshake.Unexpected response code 400
NSIG-116	Overwriting in "Connected To" field in Radio Channel Utilization Information object type
NSIG-143	Unable to save the changes in Custom Dashboard
NSIG-144	AP Hostname Truncated differently in the report depending on the length of the hostname

5. KNOWN ISSUES

Following issues are known issues in Extreme NSight 5.9.3.0/5.9.3.1:

Key	Summary
SPR-3516	APs not showing on the NSight Map if user tried to place AP on NSight server before setting the floor name on Controller

Key	Summary
NSIG-2	NSight AVC : App group trend displays incorrect count at system level
NSIG-9	AVC, widgets dont show data, timeouts seen, get_application_details_per_bucket():mu_wireless_error: MongoError: connection 19 to localhost:27017 timed out
NSIG-16	NSight - Dashboard - Themes and Widgets Not Visible during startup when mongoDB is not fully loaded
NSIG-67	NSight: Mongo Authentication fails with special character "&" Ampersand in username/password
NSIG-88	NSight: The PCI Reports for 1 days take more than 12 hours to generate with the Scale Replica setup (25K Aps and 250K Clients)
NSIG-89	NSight Scale 3node Replica: Client Widgets at System Level fails to get data intermittently
NSIG-91	NSight: Not able to pull in the theme for dashboard widgets using Firefox
NSIG-93	NSight Report: Scrollbar is needed in object filters when selecting the option system
NSIG-95	NSight: On the Scale Replica setup, on a monitor page If a select a week window, the query is timing out after 2 mins
NSIG-98	NSight Report: Multiple recipient addresses cannot be added for Emailing Reports

6. GLOBAL SUPPORT:

By Phone: +1 800-998-2408 (toll-free in U.S. and Canada)

For the toll-free support number in your country:

www.extremenetworks.com/support/

By Email: support@extremenetworks.com

By Web: www.extremenetworks.com/support/

By Mail: Extreme Networks, Inc.

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For information regarding the latest software available, recent release note revisions, or if you require additional assistance, please visit the Extreme Networks Support website.

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