Extreme
Customer-Driven Networking

6480 Via Del Oro
San Jose, CA 95119
+1 888-257-3000

ExtremeGuest 5.9.3.0 Release Notes

October 25th, 2018

OVERVIEW

ExtremeGuest 5.9.3 is a minor release that continues to build on the innovative ExtremeGuest architecture. ExtremeGuest 5.9.3 introduces new and enhanced capabilities for managing guest access.

In addition, ExtremeGuest 5.9.3 release includes several critical customer fixes.

Please refer to the most current ExtremeGuest Datasheet of the product for key features and ordering codes.

PLATFORMS SUPPORTED AND SYSTEM REQUIREMENTS

ExtremeGuest release 5.9.3 is a VM firmware image for ExtremeGuest application.

Virtual Platform	Firmware Image
ExtremeGuest	ExtremeGuest-5.9.3.0-015R.img
	ExtremeGuest-INSTALL-5.9.3.0-015R.iso

Following are the system resource requirements for ExtremeGuest 5.9.3:

Capacity (Clients DB Entries)	vCPU	Memory (DDR3-L or DDR4)	Storage/Configuration	IOPS
10K	8 Core @ 2.5GHz	32GB	100GB RAID 1+0	1000 Sustained Writes
100K	16 Core @ 2.5GHz	64GB	250GB RAID 1+0	2000 Sustained Writes
250K	16 Core @ 2.5GHz	64GB	500GB RAID 1+0	2500 Sustained Writes
500K	24 Core @ 2.5GHz	128GB	500GB RAID 1+0	3000 Sustained Writes
1 Million	24 Core @ 2.5GHz	128GB	1TB RAID 1+0	4000 Sustained Writes
2 Million	24 Core @ 2.5GHz	128GB	1TB RAID 1+0	5000 Sustained Writes
5 Million	24 Core @ 2.5GHz	256GB	2TB RAID 1+0	6000 Sustained Writes
10 Million	32 Core @ 2.5GHz	512GB	4TB RAID 1+0	8000 Sustained Writes

NEW FEATURES IN EXTREMEGUEST

New Features in ExtremeGuest Release 5.9.3.0:

- Clickable KMS
  - Summary View clickable KMS icons allowing the administrator to drill into specific guest analysis data
- Loyalty Onboarding
  - Differentiated guest access experience for loyalty users
- Splash template Management
  - Improved distribution of Captive Portal Splash Template Pages to WiNG Controllers/APs.
  - Ability to verify the splash template status on APs/Controllers from ExtremeGuest.
  - Real time summary and detailed logs, history logs for splash template operations.
  - Ability to provide the centralized view of the splash template distribution status.
- Ability to search and sort on the entire dataset of end-points and users for the matching criteria
- Global search capability – site specific details and analytics can be looked up using global search.
- Onboarding Device count limit
  - Limits the number of devices each user can have on the network depending on the group they belong to.
- Providing Temporary Internet Access to receive OTP in absence of Cellular Data
- Configurable SMTP port for Email and SMS-Over-Email notification.
- Enhanced Captive-Portal Troubleshooting
- Fix of select customer reported bugs

EXTREMEGUEST UPGRADE

ExtremeGuest Release 5.9.3.0

1. Upgrading ExtremeGuest 5.9.2.x to ExtremeGuest 5.9.3

    a. Install ExtremeGuest-5.9.3.0-015R.img using the upgrade command. DO NOT reboot the devices.
    b. Follow (3.b) for the coordinated reboot of replica-set members.

ExtremeGuest Release 5.9.2.0

1. Upgrade of integrated WiNG Captive Portal solution to ExtremeGuest solution is not supported.
2. Migrating a VX9000 to ExtremeGuest 5.9.2 as standalone VM:
    a. Install Migration patch 'UpgradeVX9000ToEGuest.patch' on all VX9000 based ExtremeGuest running pre- 5.9.2 firmware.
    b. Install ExtremeGuest-5.9.2.0-032R.img using the upgrade command. DO NOT reboot the devices.
    c. Follow (3.b) for the coordinated reboot of replica-set members.
3. Upgrading from WiNG 5.9.0 and upwards - ExtremeGuest
    a. Upgrade all ExtremeGuest devices to new firmware using the upgrade command. DO NOT reboot the devices.
    b. Reboot the Arbiter and wait for the device to come up and join the replica-set.
    c. Disable ExtremeGuest 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-29-35-AE-F6)#no eguest-server
    >
    > Primary (config-device-00-0C-29-35-AE-F6)#comm wr
    >
    > Primary (config-device-00-0C-29-35-AE-F6)#end
    >
    >
    > Secondary #self
    >
    > Enter configuration commands, one per line. End with CNTL/Z.
    >
    > Secondary (config-device-00-0C-29-35-AE-F7)#no eguest-server
    >
    > Secondary (config-device-00-0C-29-35-AE-F7)#comm wr
    >
    > Secondary (config-device-00-0C-29-35-AE-F7)#end

4. 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#sh database status
    >
    > --

```
MEMBER              STATE              ONLINE TIME
----------------------------------------------------------------------------------------
192.168.210.200*    PRIMARY            0 hours 2 min 17 sec
192.168.210.201     SECONDARY          15 hours 15 min 53 sec
192.168.210.203     ARBITER            15 hours 47 min 16 sec
----------------------------------------------------------------------------------------
```

[*] indicates this device.

5. Now 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 the above-mentioned command.

6. Now enable ExtremeGuest 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-29-35-AE-F6)#eguest-server

    Primary (config-device-00-0C-29-35-AE-F6)#comm wr

    Primary (config-device-00-0C-29-35-AE-F6)#end

    Secondary #self

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

    Secondary (config-device-00-0C-29-35-AE-F7)#eguest-server

    Secondary (config-device-00-0C-29-35-AE-F7)#comm wr

    Secondary (config-device-00-0C-29-35-AE-F7)#end

7. Make sure that the ExtremeGuest services are running on Primary and Secondary servers:

    ```
    Primary#sh eguest status
    Database server is local
    Database server is reachable
    ----------------------------------
    pid         process
    ----------------------------------
    1939        gmd
    1960        acct_server
    2073        acct_server
    2074        acct_server
    2079        acct_server
    ```

2084	acct_server
2136	acct_server-helper
2856	regserver
2879	guest_manager
2920	guest_manager
2921	guest_manager
2926	guest_manager
2931	guest_manager
3256	radiusd
31971	gmd

Primary#

IMPORTANT APPLICATION NOTES

Application Notes for ExtremeGuest Release 5.9.3

- ExtremeGuest 5.9.3.0 is considered as a maintenance release.
- Extreme Networks continues the development of ExtremeGuest as a standalone product separated from WiNG VX9K Controller
- WiNG infrastructure should be upgraded to at least 5.9.2 to work with ExtremeGuest 5.9.2 and above.
- Access to the demo mode of ExtremeGuest application – Click on the work 'ExtremeGuest' on the login page and type 'demo'.
- After upgrading to 5.9.3.0 user needs to manually configure SMTP port for security option 'none'.
- When using different AAA policies for Captive Portal and Wlan, AAA policy configured for captive-portal must contain the following configuration:

  authentication server 1 host <Authentication server>

  accounting server 1 host <ExtremeGuest>

- WiNG Infrastructure must be at WiNG 5.9.3.0 for the following:
  - Loyalty onboarding
  - Onboarding Device count limit
  - Temporary Internet Access to receive OTP
  - All Splash template distribution and management.

Application Notes for ExtremeGuest Release 5.9.2

- VX9000 based ExtremeGuest application is not supported as of WiNG 5.9.2.
- Use "UpgradeVX9000ToEGuest.patch" to migrate the VX9000 based ExtremeGuest application to ExtremeGuest 5.9.2 release.
- License Management for ExtremeGuest is only available at User Interface, CLI based license management is not supported.
- ExtremeGuest user interface is accessible through http(s)://hostname.domainname.com/
- Set WLAN registration type as "user" when setting up onboarding policy for the network to deliver One-Time-Passcode/Passcode on sponsor approval.

- Enable Message Parts at Clickatell SMS integration when customized SMS text message exceeds 160 characters length.
- Device fingerprinting report may not provide accurate Device, Browser and OS types when using Frictionless Onboarding for a network.
- Following ExtremeGuest functionalities are not supported for Captive-Portal Gateway Deployment
    - Frictionless Onboarding
    - Loyalty Application detection
    - Disconnect from network
    - Welcome Back Message

Application Notes for ExtremeGuest Release 5.9.1

- Added "service show database collections statistics" – to show size of the collection, number of Database documents.
- Added "service eguest remove-data deleted-devices|offline-for" to delete the devices reported at ExtremeGuest that are offline/removed from the network.

Application Notes for ExtremeGuest Release 5.9.0

- ExtremeGuest Deployment– please refer to "ExtremeGuest Deployment guide" posted on Support site under product manuals.
- ExtremeGuest is supported on VX 9000 instance.
  Note: NX 9600 platform can be used as ExtremeGuest for demo only (non-production).
- Preloaded for 100 client devices/60days without licensing
- Recommended browser when using ExtremeGuest in v5.9.0 are:
    - Chrome – ver 56.0.2924.87 (64-bit) or later.
    - Firefox 53.0.3
- Refer to ExtremeGuest datasheet for the VX resource requirements to deploy ExtremeGuest solution at various scale.
- ExtremeGuest and NSight services are not supported on the same VX instance.
- Splash Template Management – Make sure to add the below command to controller's/VC's before attempting to push the advanced templates from ExtremeGuest to WiNG Controller/Virtual Controller.

  (config)#rf-domain

  (config-rf-domain-{ALL})#override-wlan <WLAN-NAME> template test

  *test – template name has no significance, just a dummy template name.

- When configuring a database-policy replica-set using FQDN, enable ip dns-server-forwarding on all ExtremeGuest devices participating in the replica set.
- Configure 'geo-coordinates <latitude> <longitude>' in RF domain context to specify site locations for ExtremeGuest Google map view
- Configure 'location' in RF domain context to specify Facebook site-id used during Facebook Check-in.
- When enabling wired captive-portal based registration with ExtremeGuest, create a dummy wlan '$location-vlan-VLAN-ID' on the wired device where captive portal is enforced.
  $location – value of rf-domain location string.

VULNERABILITY UPDATES

In case a patch has been applied to address vulnerability even though vulnerability was addressed – some security scans only check the version number of the component as opposed to testing the actual vulnerability – and therefore might still report issue being present.

ExtremeGuest 5.9.3.0

- CVE-2018-10940 Linux kernel before 4.16.6 allows local attackers to use a incorrect bounds check in the CDROM driver CDROM_MEDIA_CHANGED ioctl to read out kernel memory
- CVE-2018-0739: Constructed ASN.1 types with a recursive definition could result in a DoS attack.
- CVE-2018-1130 Linux kernel before version 4.16-rc7 is vulnerable to a null pointer dereference in dccp_write_xmit() function in net/dccp/output.c in that allows a local user to cause a denial of service

ISSUES FIXED

Following issues have been fixed in ExtremeGuest 5.9.3 release:

SPR/CR	Description
SPR-3531	Shared secret under AAA>NAS doesn't support more than 15 characters
SPR-3472	Clients allowed without completing social login
EGST-78	Replica-set: Authentication is failed when primary server is down.
SPR-3455	SMTP uses port 587 and not port 25 when security is set to none.
EGST-58	User moved from one RF Domain to another is not reported properly
EGST-15	Visitors and New Users Graph - Comparison needs to be only until current time, remove connecting line between current hourly data to X -axis
EGST-129	RADIUS Auth for Eguest Mgmt user is not working
EGST-58	Accounting history is lost for users moving from RF domain to another.
EGST-131	Return users are not re-directed to acknowledgement page despite successful authentication. When welcome page is hosted internally.

KNOWN ISSUES

Following issues are known issues in ExtremeGuest 5.9.3:

Key	Summary
SPR-3464	Dashboard Widgets displays no data after several hours
EGST-165	Splash template upload fails when name includes special characters
EGST-174	Shared secret under AAA>NAS more than 47 characters fails to save in database

EGST-105	Registration: Sometimes, online user count is incorrect
EGST-99	"override-wlan" is missing in the AP when Splash Template is pushed - but page push succeeds
EGST-93	Splash template mapping support to a location when the controller is not reachable

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.
6480 Via Del Oro
San Jose, CA 95119

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