

Customer Release Notes

Ethernet Routing Switch 3600 Series

Software Release 6.5.2

October 2021

INTRODUCTION:

This document provides specific information for version 6.5.2 of agent software for the Ethernet Routing Switch 3600 (All models).

The purpose of this version is to address customer and internally found software issues.

Extreme Networks recommends that you thoroughly review this document prior to installing or upgrading this product.

For the latest firmware versions, visit the download site at:
www.extremenetworks.com/support/

IMPORTANT NOTES BEFORE UPGRADING TO THIS RELEASE

None.

PLATFORMS SUPPORTED

Ethernet Routing Switch 3600 (All models)

NOTES FOR UPGRADE

Please see “Configuring Systems on Ethernet Routing Switch 3600 Series”, NN47213–506 available at https://documentation.extremenetworks.com/ERS_Series/ERS3600

FILE NAMES FOR THIS RELEASE

File Name	Module or File Type	File Size (bytes)
3600_6100_diags.bin	Diagnostic software	7,096,948
ers3600_652009s.img	SSH runtime image	16,453,764
ers3600v630_HELP_EDM.zip	EDM Help file zip	1,678,595
Ethernet_Routing_Switch_36xx_MIBs_6.5.2.zip	MIB definition files	1,677,099

VERSION OF PREVIOUS RELEASE

Software Version 6.5.1

COMPATIBILITY

This software release is managed with Enterprise Device Manager (EDM) which is integrated into the agent software.

CHANGES IN THIS RELEASE

New Features in This Release**RFC 5997 RADIUS Status-Server reachability method**

- Prior to this release, ERS RADIUS reachability methods are either periodic pings or dummy access requests
- This release introduced support for a dedicated RADIUS request, Status-Server, with code 12 and a Message-Authenticator field, which is defined in RFC 5997
- The Server checks the message authenticator hash and if correct, replies with Access-Accept and possibly extra information about the server

CLI commands

New CLI option was added for existing command:

```
ERS(config)#radius reachability mode use-status-server
```

```
ERS(config)#radius reachability mode ?
use-icmp Enable RADIUS server reachability using ICMP
use-radius Enable RADIUS server reachability using RADIUS requests
use-status-server Enable RADIUS server reachability using RADIUS
Status-Server requests
```

- The existing logic for RADIUS reachability (retries, timeout etc) is kept, only the packets/transaction are different
- "show radius-server" will print the current timers until next check and reachability status:

```
ERS(config)#show radius-server
RADIUS Global Server
-----
Primary Host : 10.3.38.43
Secondary Host : 0.0.0.0
Port : 1812
Time-out : 10
Key : *****
Radius Accounting : Disabled
Radius Accounting Port : 1813
Radius Retry Limit : 3
Current Status : Reachable via Primary
Time Until Next Check : 50
```

```
(config)#show radius reachability
*****
Command Execution Time: 1970-01-01 00:51:23 GMT+00:00
*****
RADIUS reachability: USE STATUS-SERVER
RADIUS reachability timeout: 10
RADIUS reachability retry: 3
RADIUS reachability bad timer: 60
RADIUS reachability good timer: 180
```

Note: When Status-Server is enabled and downgrading from 6.5.2 to a 6.5.0 or 6.5.1 release, after downgrade the "show radius reachability" will show Radius reachability as "Unknown" and Radius will not work until one of the available options is set.

New Features in This Release**Management session IP TCP Keepalive**

This mechanism checks the connected TCP sockets (Telnet/SSH sessions) and determine whether the connection is still up and running or if it has broken. TCP keepalive probes (sent every second) provide a method to detect unresponsive peers and remove dead sockets. By default, the feature is Disabled.

TCP Keepalive parameters, like "interval" and "retries" are configurable via CLI and their role is to determine when the invalid TCP connection is closed. The connection is considered not valid after "retries" probes were sent, at "interval" seconds between them and there is no answer from the other peer.

Note: Configuring the IP TCP Keepalive feature does not apply to SSH/TELNET sessions that are already open. This also applies to changing the values of the "interval" and "retries" parameters.

CLI commands:

#ip tcp-keepalive {enable|interval|retries}

```
ERS(config)#ip tcp-keepalive ?
enable Enable tcp keepalive
interval TCP keepalive interval timer in seconds.
retries TCP keepalive retries number.
```

```
ERS(config)#ip tcp-keepalive enable
```

```
ERS(config)#ip tcp-keepalive retries ?
<1-50> Number of unack probes.
ERS(config)#ip tcp-keepalive retries 10
```

```
ERS(config)#ip tcp-keepalive interval ?
<1-600> Seconds
ERS(config)#ip tcp-keepalive interval 8
```

#show ip tcp-keepalive

```
ERS(config)#show ip tcp-keepalive
*****
Command Execution Time: 1970-01-01 04:23:19 GMT+00:00
*****
IP TCP Keepalive parameters
-----
Enable: Yes
Interval timer: 8 sec
Retries number: 10
```

Old Features Removed From This Release

None.

Problems Resolved in This Release

ID	Description
ERS3600-911	SNMP view config intermittently lost and after reboot comes back to config
ERS3600-932	The device must return the NAS-port-Id in 1/<PORT> format in Access-Request Packet

KNOWN LIMITATIONS:

None.

DOCUMENTATION CORRECTIONS

None.

For other known issues, please refer to the product release notes and technical documentation available from the Extreme Networks support web site at: www.extremenetworks.com/support/

TROUBLESHOOTING

As good practices of help for troubleshooting various issues, Extreme Networks recommends:

- configuring the device to use the Simple Network Time Protocol to synchronize the device clock;
- setting a remote logging server to capture all level logs, including informational ones. (#logging remote level informational).
- enabling timestamps on all `show` commands using the `cli timestamp enable` command

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.

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