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Customer Release Notes

Ethernet Routing Switch 4900 and 5900 Series

Software Release 7.9.1

December 2021

INTRODUCTION:

This document provides specific information for version 7.9.1 of agent software for the Ethernet Routing Switch 4900 and 5900 Series (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

If diagnostic upgrade is needed, extract the diagnostic image `radiag_xxxx.bin` file from the `Diag_xxxx.zip` archive.

PLATFORMS SUPPORTED

Ethernet Routing Switch 4900 and 5900 Series (All models)

NOTES FOR UPGRADE

Please see "Release Notes for Ethernet Routing Switch 4900 and 5900 Series, Release 7.9", available at https://www.extremenetworks.com/documentation for details on how to upgrade your Switch.

FILE NAMES FOR THIS RELEASE

Ethernet Routing Switch 4900 Series

File Name	Module or File Type	File Size (bytes)
4900_791027s.img	Secure runtime image	20549956
Diag_7504.zip	Diagnostic software	7470411
Ethernet_Routing_Switch_4900_MIBs_7.9.0.zip	MIB Definition File archive	1737318
ers5000v780_HELP_EDM.zip	EDM Help file zip	2090545
5900_poe_v15011.bin	POE firmware	40960

Ethernet Routing Switch 5900 Series

File Name	Module or File Type	File Size (bytes)
5900_791027s.img	Secure runtime image	21169252
Diag_7504.zip	Diagnostic software	7470411
Ethernet_Routing_Switch_5900_MIBs_7.9.0.zip	MIB Definition File archive	1905924
ers5000v780_HELP_EDM.zip	EDM Help file zip	2090545
5900_poe_v15011.bin	POE firmware	40960

VERSION OF PREVIOUS RELEASE

Software Version 7.9.0

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

Extreme Dynamic MHSA Radius attribute

Similarly to how current FA Zero Touch dynamically enables EAP (MHSA) when an FA element is detected, starting with this release, the switch also process the Extreme dynamic MHSA attribute (Code 250, Vendor ID 1916).

Works for both EAP and Non-EAP clients and for non-Extreme non-FA Access Points. It needs a Radius authentication to happen first, so EAP (and Radius Non-EAP if applicable) must be enabled globally and per port.

MHSA will be enabled globally (in a static way, saved in NVRAM), while at port level, MHSA and MHSA-No-Limit are enabled dynamically. This is consistent with FA ZT. If any of these are already enabled, we only enable the missing ones. Dynamic settings are lost at reboot (hard or soft).

The feature is disabled when the MAC left the port. This can happen more frequently for NEAP clients, which are sensitive to aging. Check the logs and show commands to see if enabled or not:
- "*show eapol multihost interface <X>*" should show that MHSA and MHSA-No-Limit are enabled
- "*EAP: Authentication mode changed to MHSA No-Limit, port 1/13, MAC 00:00:00:00:00:01*"
- When it is automatically removed:
  "*EAP: Authentication mode reverted from MHSA No-Limit, port 1/13, MAC 00:00:00:00:00:01*"

Limitations:
- FA ZT and this should not be used together. If both happen to be possible, the first one to meet its conditions will kick in.
- The attribute is not processed for re-authentication or CoA. To set or unset it, the client must be fully disconnected first.
- Only one client on the port can request this. We do not recommend setting the attribute to clients that aren't meant to be the Radius one for MHSA.
- If the client is rejected by other applications (e.g., FA interactions) and enters the Held state, Dynamic MHSA will still be applied until de-authentication
- If other clients are present on the port, they will be deleted when Dynamic MHSA is enabled

Old Features Removed from This Release

None.

Problems Resolved in This Release

ERS495900-5948	In an SPBM environment, MAC addresses not getting learned on EAP ports after many port flaps
ERS495900-5951	Switch not learning ISIS routes after reboot
ERS495900-5984	Mixture of L2 and L3 DHCP features on the same stack does not work
ERS495900-5996	TLSv1.1 is detected when TLSv1.2 is set on DUT
ERS495900-6003	After reboot IPSC needs to be bounced for the switch to route.
ERS495900-6005	SNMP view config intermittently lost and after reboot comes back to config
ERS495900-6007	MAC addresses not getting learned on some ports
ERS495900-6008	The device must return the NAS-port-Id in 1/<PORT> format in Access-Request Packet

Problems Resolved in This Release	
ERS495900-6017	In a non-SPBM environment, MAC addresses not getting learned on EAP ports after many port flaps
ERS495900-6031	EDM - Trying to edit single port throws error: TypeError: TimeStr is null. Please check the connectivity with the device and try again later.

KNOWN LIMITATIONS:

ERS495900-6021	Multicast streams with TTL=1 not forwarded over L2VSN

For other previously 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

DOCUMENTATION CORRECTIONS

None.

TROUBLESHOOTING

As good practices of help for troubleshooting various issues, we recommend:

- 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).

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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