



## AlliedWare Plus Software Version 5.5.5-1.x

- AMF Plus Cloud
- SBx81CFC960
- SBx908 GEN2
- x950 Series
- x930 Series
- x550 Series
- x540L Series
- x530 Series
- x530L Series
- x330 Series
- x320 Series
- x250 Series
- x240 Series
- x230 Series
- x220 Series
- IE360 Series
- IE340 Series
- IE220 Series
- IE210L Series
- SE540L Series
- SE250 Series
- SE240 Series
- XS900MX Series
- GS980MX Series
- GS980EM Series
- GS980M Series
- GS970EMX Series
- GS970M Series
- 10GbE UTM Firewall app
- ARX200S Series
- AR4000S-Cloud
- AR4050S-5G
- AR4050S
- AR3050S
- AR1050V
- TQR Series

5.5.5-1.2, 5.5.5-1.3, 5.5.5-1.6

## Acknowledgments

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# What's New in Version 5.5.5-1.6

Product families supported by this version:

|                                |                            |
|--------------------------------|----------------------------|
| AMF Plus Cloud                 | SE540L Series <sup>1</sup> |
| SwitchBlade x8100: SBx81CFC960 | SE250 Series <sup>1</sup>  |
| SwitchBlade x908 Generation 2  | SE240 Series <sup>1</sup>  |
| x950 Series                    | XS900MX Series             |
| x930 Series                    | GS980MX Series             |
| x550 Series                    | GS980EM Series             |
| x540L Series                   | GS980M Series              |
| x530 Series                    | GS970EMX Series            |
| x530L Series                   | GS970M Series              |
| x330 Series                    | 10GbE UTM Firewall app     |
| x320 Series                    | ARX200S Series             |
| x250 Series                    | AR4000S-Cloud              |
| x240 Series                    | AR4050S                    |
| x230 Series                    | AR4050S-5G                 |
| x220 Series                    | AR3050S                    |
| IE360 Series                   | AR1050V                    |
| IE340 Series                   | TQ7403-R                   |
| IE220 Series                   | TQ6702 GEN2-R              |
| IE210L Series                  | TQ6702e GEN2-R             |

1. Not available in all regions

## Introduction

This release note describes the new features in AlliedWare Plus software version 5.5.5-1.6.

Software file details for this version are listed in [Table 1](#) on the next page. You can obtain the software files from the [Allied Telesis Support Portal](#). Log in using your assigned email address and password.

For instructions on how to upgrade to this version, see [“Installing this Software Version” on page 53](#).

For instructions on how to update the web-based GUI, see [“Accessing and Updating the Web-based GUI” on page 55](#). The GUI offers easy visual monitoring and configuration of your device.



**Caution:** Using a software version file for the wrong device may cause unpredictable results, including disruption to the network.

Information in this release note is subject to change without notice and does not represent a commitment on the part of Allied Telesis, Inc. While every effort has been made to ensure that the information contained within this document and the features and changes described are accurate, Allied Telesis, Inc. can not accept any type of liability for errors in, or omissions arising from, the use of this information.

The following table lists model names and software files for this version:

Table 1: Models and software file names

| Models   | Family      | Date    | Software File   |
|--|-------------|---------|---|
| AMF Plus Cloud   |             | 12/2025 | vaa-5.5.5-1.61.6.iso (VAA OS)<br>vaa-5.5.5-1.6.vhd and<br>upload_vhd.py (for AWS)<br>vaa_azure-5.5.5-1.6.vhd (for<br>Microsoft Azure) |
| SBx81CFC960  | SBx8100     | 12/2025 | SBx81CFC960-5.5.5-1.6.rel   |
| SBx908 GEN2  | SBx908 GEN2 | 12/2025 | SBx908NG-5.5.5-1.6.rel  |
| x950-28XSQ<br>x950-28XTQm<br>x950-52XSQ<br>x950-52XTQm   | x950        | 12/2025 | x950-5.5.5-1.6.rel  |
| x930-28GTX<br>x930-28GPX<br>x930-28GSTX<br>x930-52GTX<br>x930-52GPX  | x930        | 12/2025 | x930-5.5.5-1.6.rel  |
| x550-18SXQ<br>x550-18XTQ<br>x550-18XSPQm   | x550        | 12/2025 | x550-5.5.5-1.6.rel  |
| x540L-28XTm<br>x540L-28XS  | x540L       | 12/2025 | x540-5.5.5-1.6.rel  |
| x530-10GHXm<br>x530-18GHXm<br>x530-28GTXm<br>x530-28GPXm<br>x530-52GTXm<br>x530-52GPXm<br>x530DP-28GHXm<br>x530DP-52GHXm | x530        | 12/2025 | x530-5.5.5-1.6.rel  |
| x530L-10GHXm<br>x530L-18GHXm<br>x530L-28GTX<br>x530L-28GPX<br>x530L-52GTX<br>x530L-52GPX                                 | x530L       | 12/2025 | x530-5.5.5-1.6.rel  |
| x330-10GTX<br>x330-20GTX<br>x330-28GTX<br>x330-52GTX   | x330        | 12/2025 | x330-5.5.5-1.6.rel  |
| x320-10GH<br>x320-11GPT  | x320        | 12/2025 | x320-5.5.5-1.6.rel  |
| x250-18XS<br>x250-18XTm<br>x250-28XS<br>x250-28XTm   | x250        | 12/2025 | x250-5.5.5-1.6.rel  |

Table 1: Models and software file names

| Models   | Family         | Date    | Software File                |
|--|----------------|---------|------------------------------|
| x240-10GTXm<br>x240-10GHXm<br>x240-26GHXm  | x240           | 12/2025 | x240-5.5.5-1.6.rel           |
| x230-10GP<br>x230-10GT<br>x230-18GP<br>x230-18GT<br>x230-28GP<br>x230-28GT<br>x230L-17GT<br>x230L-26GT | x230 and x230L | 12/2025 | x230-5.5.5-1.6.rel           |
| x220-28GS<br>x220-52GT<br>x220-52GP  | x220           | 12/2025 | x220-5.5.5-1.6.rel           |
| IE360-12GTX<br>IE360-12GHX   | IE360          | 12/2025 | IE360-5.5.5-1.6.rel          |
| IE340-12GT<br>IE340-12GP<br>IE340-20GP<br>IE340L-18GP  | IE340          | 12/2025 | IE340-5.5.5-1.6.rel          |
| IE220-6GHX<br>IE220-10GHX  | IE220          | 12/2025 | IE220-5.5.5-1.6.rel          |
| IE210L-10GP<br>IE210L-18GP   | IE210L         | 12/2025 | IE210-5.5.5-1.6.rel          |
| SE540L-28XTm<br>SE540L-28XS  | SE540L         | 12/2025 | SE540-5.5.5-1.6.rel          |
| SE250-18XS<br>SE250-18XTm<br>SE250-28XS<br>SE250-28XTm   | SE250          | 12/2025 | SE250-5.5.5-1.6.rel          |
| SE240-10GTXm<br>SE240-10GHXm   | SE240          | 12/2025 | SE240-5.5.5-1.6.rel          |
| XS916MXT<br>XS916MXS   | XS900MX        | 12/2025 | XS900-5.5.5-1.6.rel          |
| GS980MX/10HSm<br>GS980MX/18HSm<br>GS980MX/28<br>GS980MX/28PSm<br>GS980MX/52<br>GS980MX/52PSm           | GS980MX        | 12/2025 | GS980MX-5.5.5-1.6.rel        |
| GS980EM/10H<br>GS980EM/11PT  | GS980EM        | 12/2025 | GS980EM-5.5.5-1.6.rel        |
| GS980M/52<br>GS980M/52PS   | GS980M         | 12/2025 | GS980M-5.5.5-1.6.rel         |
| GS970EMX/10<br>GS970EMX/20<br>GS970EMX/28  | GS970EMX       | 12/2025 | GS970EMX-5.5.5-1.6.rel       |
| GS970M/10PS<br>GS970M/10<br>GS970M/18PS<br>GS970M/18<br>GS970M/28PS<br>GS970M/28                       | GS970M         | 12/2025 | GS970-5.5.5-1.6.rel          |
| AR4000S-Cloud  |                | 12/2025 | AR-4000S-Cloud-5.5.5-1.6.iso |
| ARX200S-GTX  | ARX200S        | 12/2025 | ARX200S-5.5.5-1.6.rel        |

Table 1: Models and software file names

| Models                           | Family                  | Date    | Software File  |
|----------------------------------|-------------------------|---------|--|
| 10GbE UTM Firewall               |                         | 12/2025 | ATVSTAPL-1.10.1.iso and vfw-x86_64-5.5.5-1.6.app       |
| AR4050S<br>AR4050S-5G<br>AR3050S | AR-Series UTM firewalls | 12/2025 | AR4050S-5.5.5-1.6.rel<br>AR3050S-5.5.5-1.6.rel         |
| AR1050V                          | AR-Series VPN routers   | 12/2025 | AR1050V-5.5.5-1.6.rel                                  |
| TQ7403-R                         | Wireless AP Router      | 12/2025 | TQ7403R-5.5.5-1.6.rel                                  |
| TQ6702 GEN2-R<br>TQ6702e GEN2-R  | Wireless AP Router      | 12/2025 | TQ6702GEN2R-5.5.5-1.6.rel<br>TQ6702GEN2R-5.5.5-1.6.rel |



**Caution:** Software version 5.5.5-1.x requires a release license for the SBx908 GEN2 and SBx8100 switches. If you are using either of these switches, make sure that each switch has a 5.5.5 license certificate before you upgrade.

Once an SBx908 GEN2 or SBx8100 switch has a version 5.5.5 license installed, that license also covers all later 5.5.5 versions. Such switches will not need a new license before upgrading to later versions.

Contact your authorized Allied Telesis support center to obtain a license. For details, see:

- [“Licensing this Version on an SBx908 GEN2 Switch” on page 49.](#)
- [“Licensing this Version on an SBx8100 Series CFC960 Control Card” on page 51.](#)

## ISSU (In-Service Software Upgrade) on SBx8100 with CFC960

The 5.5.5-1.6 software version is ISSU compatible with previous software versions.

# Issues Resolved in Version 5.5.5-1.6

This AlliedWare Plus maintenance version includes the following resolved issues ordered by feature:

| CR       | Module             | Description   | GS970M/GS970EMX | XS900MX | GS980M | GS980MX | GS980EM | IE220 | IE210L | IE340VE340L | IE360 | SE540/SE540L | SE250 | SE240 | x220 | x230, x230L | x240 | x250 | x320 | x330 | x540L | x530, x530L | x550 | x930 | x950 | SBx8100 CFC960 | x908Gen2/Gen3 | AR1050V | AR3050S | AR4050S / AR4050S-5G | 10GbE UTM Firewall/AR4000S-Cloud | AMF Cloud | ARX200S | TQR Series |   |
|----------|--------------------|---|-----------------|---------|--------|---------|---------|-------|--------|-------------|-------|--------------|-------|-------|------|-------------|------|------|------|------|-------|-------------|------|------|------|----------------|---------------|---------|---------|----------------------|----------------------------------|-----------|---------|------------|---|
| CR-87743 | AMF, File Transfer | Previously, long running copy commands would fail if they exceeded the console timeout.<br><br>This has been resolved, the console will no longer timeout while a copy operation is in progress.<br><br>ISSU: Effective when CFCs upgraded. | Y               | Y       | Y      | Y       | Y       | Y     | Y      | Y           | Y     | Y            | Y     | Y     | Y    | Y           | Y    | Y    | Y    | Y    | Y     | Y           | Y    | Y    | Y    | Y              | Y             | Y       | Y       | Y                    | Y                                | Y         | Y       | Y          | Y |
| CR-87955 | API, RADIUS        | Previously, a memory leak could occur for RADIUS bulk APIs if any of the batch operations failed.<br><br>This issue has been resolved.<br><br>ISSU: Effective when CFCs upgraded.   | Y               | Y       | Y      | Y       | Y       | Y     | Y      | Y           | Y     | Y            | Y     | Y     | Y    | Y           | Y    | Y    | Y    | Y    | Y     | Y           | Y    | Y    | Y    | Y              | Y             | Y       | Y       | Y                    | Y                                | Y         | -       | Y          | Y |

| CR       | Module                   | Description   | GS970M/GS970EMX | XS900MX | GS980M | GS980MX | GS980EM | IE220 | IE210L | IE340/IE340L | IE360 | SE540/SE540L | SE250 | SE240 | x220 | x230, x230L | x240 | x250 | x320 | x330 | x540L | x530, x530L | x550 | x930 | x950 | SBx8100 CFC960 | x908Gen2/Gen3 | AR1050V | AR3050S | AR4050S / AR4050S-5G | 10GbE UTM Firewall/AR4000S-Cloud | AMF Cloud | ARX200S | TDR Series |   |
|----------|--------------------------|---|-----------------|---------|--------|---------|---------|-------|--------|--------------|-------|--------------|-------|-------|------|-------------|------|------|------|------|-------|-------------|------|------|------|----------------|---------------|---------|---------|----------------------|----------------------------------|-----------|---------|------------|---|
| CR-87676 | BGP                      | <p>Previously the BGP table version reported by <b>show ip bgp</b> would increment each time the BGP nexthop scanner ran (<b>show ip bgp scan</b>) which has a default timer of 60 seconds.</p> <p>This issue has been resolved - the BGP table version will now only increment when there has been a change to the routes in the local BGP RIB.</p> <p>Additionally, routes locally redistributed into BGP from other protocols or from connected or static routes, previously were not being included in the output of <b>show ip bgp</b>.</p> <p>This issue has also been resolved.</p> <p>ISSU: Effective when CFCs upgraded.</p> | -               | -       | -      | -       | -       | Y     | Y      | -            | Y     | -            | Y     | -     | -    | -           | -    | Y    | -    | Y    | Y     | Y           | Y    | Y    | Y    | Y              | Y             | -       | Y       | Y                    | -                                | -         | Y       | Y          |   |
| CR-88661 | CLI, Spanning Tree       | <p>Previously, when configuring multiple interfaces, the commands <b>spanning-tree restricted-tcn</b> and <b>spanning-tree restricted-role</b> were only applied to the first port in the interface range, and the subsequent ports were not configured.</p> <p>This issue has been resolved.</p>   | Y               | Y       | Y      | Y       | Y       | Y     | Y      | Y            | Y     | Y            | Y     | Y     | Y    | Y           | Y    | Y    | Y    | Y    | Y     | Y           | Y    | Y    | Y    | Y              | Y             | Y       | Y       | Y                    | Y                                | Y         | -       | Y          | Y |
| CR-88138 | Environmental Monitoring | <p>Previously, the command <b>show system environment</b> would output incorrect power status on TQ routers other than TQ6702GEN2R.</p> <p>This issue has been resolved.</p>  | -               | -       | -      | -       | -       | -     | -      | -            | -     | -            | -     | -     | -    | -           | -    | -    | -    | -    | -     | -           | -    | -    | -    | -              | -             | -       | -       | -                    | -                                | -         | -       | -          | Y |
| CR-88490 | HTTP service             | This version addresses the vulnerabilities associated with CVE-2025-62168   | -               | -       | -      | -       | -       | -     | -      | -            | -     | -            | -     | -     | -    | -           | -    | -    | -    | -    | -     | -           | -    | -    | -    | -              | -             | Y       | Y       | Y                    | -                                | -         | Y       | Y          |   |

| CR       | Module               | Description   | GS970M/GS970EMX | XS900MX | GS980M | GS980MX | GS980EM | IE220 | IE210L | IE340/IE340L | IE360 | SE540/SE540L | SE250 | SE240 | x220 | x230, x230L | x240 | x250 | x320 | x330 | x540L | x530, x530L | x550 | x930 | x950 | SBx8100 CFC960 | x908Gen2/Gen3 | AR1050V | AR3050S | AR4050S / AR4050S-5G | 10GbE UTM Firewall/AR4000S-Cloud | AMF Cloud | ARX200S | TQR Series |   |   |
|----------|----------------------|---|-----------------|---------|--------|---------|---------|-------|--------|--------------|-------|--------------|-------|-------|------|-------------|------|------|------|------|-------|-------------|------|------|------|----------------|---------------|---------|---------|----------------------|----------------------------------|-----------|---------|------------|---|---|
| CR-87938 | IGMP                 | Previously, when an IGMP entry timed out and was deleted, the corresponding hardware entry could fail to be deleted.<br>This issue has been resolved.   | -               | -       | -      | -       | -       | -     | -      | -            | -     | -            | Y     | Y     | -    | -           | Y    | Y    | -    | -    | Y     | -           | -    | -    | -    | -              | -             | -       | -       | -                    | -                                | -         | -       | -          | - | - |
| CR-87370 | Logging              | Previously, when running NGFW UTM features occasionally the log message ""servicefc: Conntrack error: No buffer space available"" would be generated.<br>This issue has been resolved.  | -               | -       | -      | -       | -       | -     | -      | -            | -     | -            | -     | -     | -    | -           | -    | -    | -    | -    | -     | -           | -    | -    | -    | -              | -             | Y       | Y       | Y                    | -                                | -         | Y       | Y          |   |   |
| CR-87803 | Logging              | Previously, a change to the logging configuration which affected all logging destinations would result in the log configuration to be reloaded excessively.<br>This issue has been resolved.<br>ISSU: Effective when ISSU complete. | Y               | Y       | Y      | Y       | Y       | Y     | Y      | Y            | Y     | Y            | Y     | Y     | Y    | Y           | Y    | Y    | Y    | Y    | Y     | Y           | Y    | Y    | Y    | Y              | Y             | Y       | Y       | Y                    | Y                                | Y         | Y       | Y          | Y | Y |
| CR-87926 | Logging, VC-Stacking | Previously, when hotswapping a XEM3 on a SBx908 GEN3 tipc timeout logs could be generated.<br>This issue has been resolved.   | -               | -       | -      | -       | -       | -     | -      | -            | -     | -            | Y     | Y     | -    | -           | Y    | Y    | -    | -    | Y     | -           | -    | -    | -    | -              | -             | -       | -       | -                    | -                                | -         | -       | -          | - | - |
| CR-88286 | MAC Thrashing        | Previously, if a thrash detection timeout of "0" was configured the feature would incorrectly be disabled.<br>This issue has been resolved.   | Y               | Y       | -      | -       | -       | -     | Y      | Y            | Y     | -            | -     | -     | -    | Y           | -    | -    | -    | Y    | -     | Y           | Y    | Y    | Y    | Y              | Y             | -       | -       | -                    | -                                | -         | -       | -          | - | - |
| CR-88814 | MRP                  | Previously, when MRP was configured on a port, spanning-tree would be disabled. However, when MRP was removed from the port, spanning-tree was not being re-enabled.<br>This issue has been resolved.                               | -               | -       | -      | -       | -       | Y     | -      | Y            | Y     | -            | -     | -     | -    | -           | -    | -    | -    | -    | -     | -           | -    | Y    | Y    | -              | Y             | -       | -       | -                    | -                                | -         | -       | -          | - | - |

| CR       | Module                 | Description  | GS970M/GS970EMX | XS900MX | GS980M | GS980MX | GS980EM | IE220 | IE210L | IE340/IE340L | IE360 | SE540/SE540L | SE250 | SE240 | x220 | x230, x230L | x240 | x250 | x320 | x330 | x540L | x530, x530L | x550 | x930 | x950 | SBx8100 CFC960 | x908Gen2/Gen3 | AR1050V | AR3050S | AR4050S / AR4050S-5G | 10GbE UTM Firewall/AR4000S-Cloud | AMF Cloud | ARX200S | TQR Series |   |
|----------|------------------------|--|-----------------|---------|--------|---------|---------|-------|--------|--------------|-------|--------------|-------|-------|------|-------------|------|------|------|------|-------|-------------|------|------|------|----------------|---------------|---------|---------|----------------------|----------------------------------|-----------|---------|------------|---|
| CR-87940 | Multicast Forwarding   | Previously, If the arp-mac-disparity configuration was changed to a different mode (e.g. from unicast to multicast) following a VCStack failover, then ARP entries could fail to adopt the new mode and still be learnt using the previously configured mode.<br><br>This issue has been resolved. | -               | -       | -      | -       | -       | -     | -      | -            | -     | -            | -     | -     | -    | -           | -    | -    | -    | -    | -     | -           | -    | -    | Y    | -              | Y             | -       | -       | -                    | -                                | -         | -       | -          | - |
| CR-87627 | NAT                    | Previously, Masquerade or Port Forwarding rules that used dynamic entity configuration to acquire the source / destination address could fail to work correctly.<br><br>This issue has been resolved.  | -               | -       | -      | -       | -       | -     | -      | -            | -     | -            | -     | -     | -    | -           | -    | -    | -    | -    | -     | -           | -    | -    | -    | -              | -             | Y       | Y       | Y                    | -                                | -         | -       | Y          | Y |
| CR-87993 | OpenVPN                | Previously, when importing a certificate the local PKI trustpoint could not be established.<br><br>This issue has been resolved.<br><br>ISSU: Effective when CFCs upgraded.  | Y               | Y       | Y      | Y       | Y       | Y     | Y      | Y            | Y     | Y            | Y     | Y     | Y    | Y           | Y    | Y    | Y    | Y    | Y     | Y           | Y    | Y    | Y    | Y              | Y             | Y       | Y       | Y                    | Y                                | Y         | Y       | Y          | Y |
| CR-87695 | Pluggable Transceivers | Previously, SPTXc modules could sometimes fail to link up after boot up on affected platforms.<br><br>This issue has been resolved.<br><br>ISSU: Effective when ISSU complete.   | Y               | Y       | Y      | Y       | Y       | Y     | Y      | Y            | Y     | Y            | Y     | Y     | Y    | Y           | Y    | Y    | Y    | Y    | Y     | Y           | Y    | Y    | Y    | Y              | Y             | Y       | -       | -                    | -                                | -         | -       | -          | - |
| CR-87816 | Pluggable Transceivers | Previously, due to a driver update 1G fiber auto-negotiation could in some cases fail to start, resulting in the link partner failing to bring up the link.<br><br>This issue has been resolved.   | -               | -       | -      | -       | -       | -     | -      | -            | -     | Y            | Y     | Y     | -    | -           | Y    | Y    | -    | -    | Y     | -           | -    | -    | -    | -              | -             | -       | -       | -                    | -                                | -         | -       | -          | - |

| CR       | Module                 | Description   | GS970M/GS970EMX | XS900MX | GS980M | GS980MX | GS980EM | IE220 | IE210L | IE340/IE340L | IE360 | SE540/SE540L | SE250 | SE240 | x220 | x230, x230L | x240 | x250 | x320 | x330 | x540L | x530, x530L | x550 | x930 | x950 | SBx8100 CFC960 | x908Gen2/Gen3 | AR1050V | AR3050S | AR4050S / AR4050S-5G | 10GbE UTM Firewall/AR4000S-Cloud | AMF Cloud | ARX200S | TDR Series |   |   |
|----------|------------------------|---|-----------------|---------|--------|---------|---------|-------|--------|--------------|-------|--------------|-------|-------|------|-------------|------|------|------|------|-------|-------------|------|------|------|----------------|---------------|---------|---------|----------------------|----------------------------------|-----------|---------|------------|---|---|
| CR-87900 | Pluggable Transceivers | Previously, setting the speed of SPSX modules in SFP+ ports to 1000M could cause the link to go down.<br><br>This issue has been resolved.  | -               | -       | -      | -       | -       | -     | -      | -            | Y     | -            | -     | -     | -    | -           | -    | -    | -    | -    | -     | -           | -    | -    | -    | -              | -             | -       | -       | -                    | -                                | -         | -       | -          | - |   |
| CR-88297 | Pluggable Transceivers | Previously, the SP10TM and SP10TM/I would not link up at 2.5G and 5G on affected platforms.<br><br>This issue has been resolved.  | -               | -       | -      | -       | -       | -     | -      | -            | -     | -            | -     | -     | -    | -           | -    | -    | -    | -    | -     | -           | Y    | -    | Y    | -              | Y             | -       | -       | -                    | -                                | -         | -       | -          | - |   |
| CR-87689 | PoE                    | Previously some IEEE 802.3at (class 4) PDs could not be reliably powered by the x240-10GHXm, SE240-10GHXm, x240-18GHXm, SE240-18GHXm, x240-26GHXm and SE240-26GHXm.<br><br>This has been resolved by adding a new command <b>power-inline ieee-std</b> that allows the supported PoE IEEE standard to be changed per port.<br><br>Options are IEEE-802.3bt (default), IEEE 802.3at and Pre-Bt.<br><br>Configuring IEEE 802.3at a class 4 device often resolves the issue. | -               | -       | -      | -       | -       | Y     | -      | -            | Y     | -            | -     | -     | -    | -           | Y    | -    | -    | -    | -     | Y           | -    | -    | -    | -              | -             | -       | -       | -                    | -                                | -         | -       | -          | - |   |
| CR-88656 | Policy-based Routing   | Previously, when multiple class-maps were defined in a policy-map, and the action for one class-map was modified via the cli, in some circumstances the new action may not have been applied to matching traffic. This issue has been resolved.<br><br>ISSU: Effective when ISSU complete.  | -               | -       | Y      | Y       | Y       | -     | -      | -            | -     | Y            | Y     | Y     | Y    | -           | Y    | Y    | Y    | Y    | -     | -           | Y    | -    | -    | -              | Y             | -       | -       | -                    | -                                | -         | -       | -          | - | - |



| CR       | Module                             | Description  | GS970M/GS970EMX | XS900MX | GS980M | GS980MX | GS980EM | IE220 | IE210L | IE340/IE340L | IE360 | SE540/SE540L | SE250 | SE240 | x220 | x230, x230L | x240 | x250 | x320 | x330 | x540L | x530, x530L | x550 | x930 | x950 | SBx8100 CFC960 | x908Gen2/Gen3 | AR1050V | AR3050S | AR4050S / AR4050S-5G | 10GbE UTM Firewall/AR4000S-Cloud | AMF Cloud | ARX200S | TQR Series |   |   |   |
|----------|------------------------------------|--|-----------------|---------|--------|---------|---------|-------|--------|--------------|-------|--------------|-------|-------|------|-------------|------|------|------|------|-------|-------------|------|------|------|----------------|---------------|---------|---------|----------------------|----------------------------------|-----------|---------|------------|---|---|---|
| CR-88388 | SSH                                | Recent CVE modifications made to OpenSSH introduced an incompatibility with Crypto Secure-Mode.<br><br>This issue has been resolved.<br>ISSU: Effective when CFCs upgraded.  | Y               | Y       | Y      | Y       | Y       | Y     | Y      | Y            | Y     | Y            | Y     | Y     | Y    | Y           | Y    | Y    | Y    | Y    | Y     | Y           | Y    | Y    | Y    | Y              | Y             | Y       | Y       | Y                    | Y                                | Y         | Y       | Y          | Y | Y |   |
| CR-88717 | Storm Control                      | Previously, the <b>storm-control</b> command was not accepted for certain ports on SBx908 GEN3.<br><br>This issue is now resolved, and storm-control is able to be configured on all ports.  |                 |         |        |         |         |       |        |              |       |              |       |       |      |             |      |      |      |      |       |             |      |      |      |                |               |         |         |                      |                                  |           |         |            |   |   |   |
| CR-88237 | Triggers, Environmental Monitoring | Due to an internal change, environmental monitoring triggers that were created on earlier releases would fail to work after upgrading to 5.5.5-1.x.<br><br>This issue is now resolved, and additionally triggers validity is checked during bootup, and a log generated if the trigger is invalid. | -               | -       | -      | -       | -       | -     | -      | -            | Y     | -            | -     | -     | -    | -           | -    | -    | -    | -    | -     | -           | -    | -    | -    | -              | -             | -       | -       | -                    | -                                | -         | -       | -          | - | - | - |
| ER-7350  | USB Modem                          | <b>Enhancement</b><br><br>This enhancement adds support on the ARX200 for the NCXX UX302NC USB modem.  | -               | -       | -      | -       | -       | -     | -      | -            | -     | -            | -     | -     | -    | -           | -    | -    | -    | -    | -     | -           | -    | -    | -    | -              | -             | -       | -       | -                    | -                                | -         | -       | -          | - | Y | - |
| CR-87646 | VCStack                            | Previously, in rare cases during a failover on a VCStack, an unexpected reboot could occur.<br><br>This issue was more likely to occur on larger stacks with 1many members and XEM2s installed.<br><br>This issue has been resolved.   | -               | Y       | -      | -       | -       | -     | -      | -            | -     | -            | -     | -     | -    | -           | -    | -    | -    | -    | -     | -           | Y    | Y    | Y    | -              | Y             | -       | -       | -                    | -                                | -         | -       | -          | - | - | - |

| CR       | Module                        | Description  | GS970M/GS970EMX | XS900MX | GS980M | GS980MX | GS980EM | IE220 | IE210L | IE340/IE340L | IE360 | SE540/SE540L | SE250 | SE240 | x220 | x230, x230L | x240 | x250 | x320 | x330 | x540L | x530, x530L | x550 | x930 | x950 | SBx8100 CFC960 | x908Gen2/Gen3 | AR1050V | AR3050S | AR4050S / AR4050S-5G | 10GbE UTM Firewall/AR4000S-Cloud | AMF Cloud | ARX200S | TDR Series |   |   |
|----------|-------------------------------|--|-----------------|---------|--------|---------|---------|-------|--------|--------------|-------|--------------|-------|-------|------|-------------|------|------|------|------|-------|-------------|------|------|------|----------------|---------------|---------|---------|----------------------|----------------------------------|-----------|---------|------------|---|---|
| CR-88331 | VCStack                       | Previously, when a VCStack member was rebooted, an unexpected reboot could occur on the VCStack master.<br>This issue has been resolved.   | Y               | Y       | -      | -       | -       | -     | -      | -            | -     | -            | -     | -     | -    | -           | -    | -    | -    | Y    | -     | -           | Y    | Y    | Y    | -              | Y             | -       | -       | -                    | -                                | -         | -       | -          | - |   |
| CR-87459 | VCStacking, Multicast routing | Previously, following a VCStack master failover it was possible for multicast groups to stop being forwarded.<br>This issue has been resolved.<br>ISSU: Effective when CFCs upgraded | Y               | Y       | Y      | Y       | Y       | Y     | Y      | Y            | Y     | Y            | Y     | Y     | Y    | Y           | Y    | Y    | Y    | Y    | Y     | Y           | Y    | Y    | Y    | Y              | Y             | Y       | Y       | Y                    | Y                                | Y         | Y       | Y          | Y | Y |
| CR-88709 | WiFi                          | Previously, the calculated MAC address for wireless VAP interfaces would be invalid if the device MAC address contained leading zeros.<br>This issue has been resolved.              | -               | -       | -      | -       | -       | -     | -      | -            | -     | -            | -     | -     | -    | -           | -    | -    | -    | -    | -     | -           | -    | -    | -    | -              | -             | -       | -       | -                    | -                                | -         | -       | -          | - | Y |

# What's New in Version 5.5.5-1.3

Product families supported by this version:

|                                |                            |
|--------------------------------|----------------------------|
| AMF Plus Cloud                 | SE540L Series <sup>1</sup> |
| SwitchBlade x8100: SBx81CFC960 | SE250 Series <sup>1</sup>  |
| SwitchBlade x908 Generation 2  | SE240 Series <sup>1</sup>  |
| x950 Series                    | XS900MX Series             |
| x930 Series                    | GS980MX Series             |
| x550 Series                    | GS980EM Series             |
| x540L Series                   | GS980M Series              |
| x530 Series                    | GS970EMX Series            |
| x530L Series                   | GS970M Series              |
| x330 Series                    | 10GbE UTM Firewall app     |
| x320 Series                    | ARX200S Series             |
| x250 Series                    | AR4000S-Cloud              |
| x240 Series                    | AR4050S                    |
| x230 Series                    | AR4050S-5G                 |
| x220 Series                    | AR3050S                    |
| IE360 Series                   | AR1050V                    |
| IE340 Series                   | TQ7403-R                   |
| IE220 Series                   | TQ6702 GEN2-R              |
| IE210L Series                  | TQ6702e GEN2-R             |

1. Not available in all regions

## Introduction

This release note describes the new features in AlliedWare Plus software version 5.5.5-1.3.

Software file details for this version are listed in [Table 1](#) on the next page. You can obtain the software files from the [Allied Telesis Support Portal](#). Log in using your assigned email address and password.

For instructions on how to upgrade to this version, see ["Installing this Software Version" on page 53](#).

For instructions on how to update the web-based GUI, see ["Accessing and Updating the Web-based GUI" on page 55](#). The GUI offers easy visual monitoring and configuration of your device.



**Caution:** Using a software version file for the wrong device may cause unpredictable results, including disruption to the network.

Information in this release note is subject to change without notice and does not represent a commitment on the part of Allied Telesis, Inc. While every effort has been made to ensure that the information contained within this document and the features and changes described are accurate, Allied Telesis, Inc. can not accept any type of liability for errors in, or omissions arising from, the use of this information.

The following table lists model names and software files for this version:

Table 1: Models and software file names

| Models   | Family      | Date    | Software File  |
|--|-------------|---------|--|
| AMF Plus Cloud   |             | 10/2025 | vaa-5.5.5-1.3.iso (VAA OS)<br>vaa-5.5.5-1.3.vhd and<br>upload_vhd.py (for AWS)<br>vaa_azure-5.5.5-1.3.vhd (for<br>Microsoft Azure) |
| SBx81CFC960  | SBx8100     | 10/2025 | SBx81CFC960-5.5.5-1.3.rel  |
| SBx908 GEN2  | SBx908 GEN2 | 10/2025 | SBx908NG-5.5.5-1.3.rel   |
| x950-28XSQ<br>x950-28XTQm<br>x950-52XSQ<br>x950-52XTQm   | x950        | 10/2025 | x950-5.5.5-1.3.rel   |
| x930-28GTX<br>x930-28GPX<br>x930-28GSTX<br>x930-52GTX<br>x930-52GPX  | x930        | 10/2025 | x930-5.5.5-1.3.rel   |
| x550-18SXQ<br>x550-18XTQ<br>x550-18XSPQm   | x550        | 10/2025 | x550-5.5.5-1.3.rel   |
| x540L-28XTm<br>x540L-28XS  | x540L       | 10/2025 | x540-5.5.5-1.3.rel   |
| x530-10GHXm<br>x530-18GHXm<br>x530-28GTXm<br>x530-28GPXm<br>x530-52GTXm<br>x530-52GPXm<br>x530DP-28GHXm<br>x530DP-52GHXm | x530        | 10/2025 | x530-5.5.5-1.3.rel   |
| x530L-10GHXm<br>x530L-18GHXm<br>x530L-28GTX<br>x530L-28GPX<br>x530L-52GTX<br>x530L-52GPX                                 | x530L       | 10/2025 | x530-5.5.5-1.3.rel   |
| x330-10GTX<br>x330-20GTX<br>x330-28GTX<br>x330-52GTX   | x330        | 10/2025 | x330-5.5.5-1.3.rel   |
| x320-10GH<br>x320-11GPT  | x320        | 10/2025 | x320-5.5.5-1.3.rel   |
| x250-18XS<br>x250-18XTm<br>x250-28XS<br>x250-28XTm   | x250        | 10/2025 | x250-5.5.5-1.3.rel   |

Table 1: Models and software file names

| Models   | Family         | Date    | Software File                |
|--|----------------|---------|------------------------------|
| x240-10GTXm<br>x240-10GHXm<br>x240-26GHXm  | x240           | 10/2025 | x240-5.5.5-1.3.rel           |
| x230-10GP<br>x230-10GT<br>x230-18GP<br>x230-18GT<br>x230-28GP<br>x230-28GT<br>x230L-17GT<br>x230L-26GT | x230 and x230L | 10/2025 | x230-5.5.5-1.3.rel           |
| x220-28GS<br>x220-52GT<br>x220-52GP  | x220           | 10/2025 | x220-5.5.5-1.3.rel           |
| IE360-12GTX<br>IE360-12GHX   | IE360          | 10/2025 | IE360-5.5.5-1.3.rel          |
| IE340-12GT<br>IE340-12GP<br>IE340-20GP<br>IE340L-18GP  | IE340          | 10/2025 | IE340-5.5.5-1.3.rel          |
| IE220-6GHX<br>IE220-10GHX  | IE220          | 10/2025 | IE220-5.5.5-1.3.rel          |
| IE210L-10GP<br>IE210L-18GP   | IE210L         | 10/2025 | IE210-5.5.5-1.3.rel          |
| SE540L-28XTm<br>SE540L-28XS  | SE540L         | 10/2025 | SE540-5.5.5-1.3.rel          |
| SE250-18XS<br>SE250-18XTm<br>SE250-28XS<br>SE250-28XTm   | SE250          | 10/2025 | SE250-5.5.5-1.3.rel          |
| SE240-10GTXm<br>SE240-10GHXm   | SE240          | 10/2025 | SE240-5.5.5-1.3.rel          |
| XS916MXT<br>XS916MXS   | XS900MX        | 10/2025 | XS900-5.5.5-1.3.rel          |
| GS980MX/10HSm<br>GS980MX/18HSm<br>GS980MX/28<br>GS980MX/28PSm<br>GS980MX/52<br>GS980MX/52PSm           | GS980MX        | 10/2025 | GS980MX-5.5.5-1.3.rel        |
| GS980EM/10H<br>GS980EM/11PT  | GS980EM        | 10/2025 | GS980EM-5.5.5-1.3.rel        |
| GS980M/52<br>GS980M/52PS   | GS980M         | 10/2025 | GS980M-5.5.5-1.3.rel         |
| GS970EMX/10<br>GS970EMX/20<br>GS970EMX/28  | GS970EMX       | 10/2025 | GS970EMX-5.5.5-1.3.rel       |
| GS970M/10PS<br>GS970M/10<br>GS970M/18PS<br>GS970M/18<br>GS970M/28PS<br>GS970M/28                       | GS970M         | 10/2025 | GS970-5.5.5-1.3.rel          |
| AR4000S-Cloud  |                | 10/2025 | AR-4000S-Cloud-5.5.5-1.3.iso |
| ARX200S-GTX  | ARX200S        | 10/2025 | ARX200S-5.5.5-0.4.rel        |

Table 1: Models and software file names

| Models                           | Family                  | Date    | Software File  |
|----------------------------------|-------------------------|---------|--|
| 10GbE UTM Firewall               |                         | 10/2025 | ATVSTAPL-1.10.1.iso and vfw-x86_64-5.5.5-1.3.app       |
| AR4050S<br>AR4050S-5G<br>AR3050S | AR-Series UTM firewalls | 10/2025 | AR4050S-5.5.5-1.3.rel<br>AR3050S-5.5.5-1.3.rel         |
| AR1050V                          | AR-Series VPN routers   | 10/2025 | AR1050V-5.5.5-1.3.rel                                  |
| TQ7403-R                         | Wireless AP Router      | 10/2025 | TQ7403R-5.5.5-1.3.rel                                  |
| TQ6702 GEN2-R<br>TQ6702e GEN2-R  | Wireless AP Router      | 10/2025 | TQ6702GEN2R-5.5.5-1.3.rel<br>TQ6702GEN2R-5.5.5-1.3.rel |



**Caution:** Software version 5.5.5-1.x requires a release license for the SBx908 GEN2 and SBx8100 switches. If you are using either of these switches, make sure that each switch has a 5.5.5 license certificate before you upgrade.

Once an SBx908 GEN2 or SBx8100 switch has a version 5.5.5 license installed, that license also covers all later 5.5.5 versions. Such switches will not need a new license before upgrading to later versions.

Contact your authorized Allied Telesis support center to obtain a license. For details, see:

- [“Licensing this Version on an SBx908 GEN2 Switch” on page 49.](#)
- [“Licensing this Version on an SBx8100 Series CFC960 Control Card” on page 51.](#)

## ISSU (In-Service Software Upgrade) on SBx8100 with CFC960

The 5.5.5-1.3 software version is ISSU compatible with previous software versions.

# Issues Resolved in Version 5.5.5-1.3

This AlliedWare Plus maintenance version includes the following resolved issues ordered by feature:

| CR       | Module                | Description  | GS970M/GS970EMX | XS900MX | GS980M | GS980MX | GS980EM | IE220 | IE210L | IE340/IE340L | SE540/SE540L | SE250 | SE240 | x220 | x230, x230L | x240 | x250 | x320 | x330 | x540L | x530, x530L | x550 | x930 | x950 | SBx8100 CFC960 | x908Gen2 | AR1050V | AR3050S | AR4050S / AR4050S-5G | 10GbE UTM Firewall/AR4000S-Cloud | AMF Cloud | ARX200 | TQR Series |   |
|----------|-----------------------|--|-----------------|---------|--------|---------|---------|-------|--------|--------------|--------------|-------|-------|------|-------------|------|------|------|------|-------|-------------|------|------|------|----------------|----------|---------|---------|----------------------|----------------------------------|-----------|--------|------------|---|
| CR-87580 | AMF                   | Previously, a command line interface error could occur while resizing the terminal window.<br><br>This issue has been resolved.<br>ISSU: Effective when CFCs upgraded.   | Y               | Y       | Y      | Y       | Y       | Y     | Y      | Y            | Y            | Y     | Y     | Y    | Y           | Y    | Y    | Y    | Y    | Y     | Y           | Y    | Y    | Y    | Y              | Y        | Y       | Y       | Y                    | Y                                | Y         | Y      | Y          | Y |
| CR-87775 | API, Apteryx, NETCONF | Previously, in some instances API calls to certain nodes would fail if the full web API path to the node was requested due to the way the data for these nodes was provided.<br><br>This issue has been resolved.<br>ISSU: Effective when CFCs upgraded. | Y               | Y       | Y      | Y       | Y       | Y     | Y      | Y            | Y            | Y     | Y     | Y    | Y           | Y    | Y    | Y    | Y    | Y     | Y           | Y    | Y    | Y    | Y              | Y        | Y       | Y       | Y                    | Y                                | -         | -      | Y          | Y |
| CR-87135 | CLI, Link Aggregation | Previously, ports added to an aggregator did not appear in the output of the <b>show platform port</b> command.<br><br>This issue has been resolved.<br>ISSU: Effective when CFCs upgraded.  | Y               | Y       | Y      | Y       | Y       | Y     | Y      | Y            | Y            | Y     | Y     | Y    | Y           | Y    | Y    | Y    | Y    | Y     | Y           | Y    | Y    | Y    | Y              | Y        | Y       | Y       | Y                    | Y                                | -         | -      | Y          | Y |
| CR-87175 | CPU, Switchports      | Previously, connecting or disconnecting switchports could result in higher than expected CPU utilisation.<br><br>This issue has been resolved.<br>ISSU: Effective when CFCs upgraded.  | -               | -       | Y      | Y       | Y       | -     | -      | -            | Y            | Y     | Y     | Y    | -           | Y    | Y    | Y    | Y    | Y     | Y           | -    | -    | -    | -              | Y        | -       | -       | -                    | -                                | -         | -      | -          | - |

| CR       | Module                                    | Description   | GS970M/GS970EMX | XS900MX | GS980M | GS980MX | GS980EM | IE220 | IE210L | IE340/IE340L | SE540/SE540L | SE250 | SE240 | x220 | x230, x230L | x240 | x250 | x320 | x330 | x540L | x530, x530L | x550 | x930 | x950 | SBx8100 CFC960 | x908Gen2 | AR1050V | AR3050S | AR4050S / AR4050S-5G | 10GbE UTM Firewall/AR4000S-Cloud | AMF Cloud | ARX200 | TQR Series |   |   |
|----------|---|---|-----------------|---------|--------|---------|---------|-------|--------|--------------|--------------|-------|-------|------|-------------|------|------|------|------|-------|-------------|------|------|------|----------------|----------|---------|---------|----------------------|----------------------------------|-----------|--------|------------|---|---|
| CR-87791 | Device GUI, Device Security, HTTP service | Previously, on TQ-R platforms, the HTTP server could disable indefinitely when the manager password was changed.<br><br>This has been corrected to re-enable after a few seconds.   | -               | -       | -      | -       | -       | -     | -      | -            | -            | -     | -     | -    | -           | -    | -    | -    | -    | -     | -           | -    | -    | -    | -              | -        | -       | -       | -                    | -                                | -         | -      | -          | - | Y |
| ER-7198  | DHCPv6, IPv6                              | Previously, when an interface running a DHCPv6 client in Prefix Delegation mode was shut down and brought back up, the client was incorrectly reinitialized in NDP mode.<br><br>This issue has now been resolved.<br>ISSU: Effective when CFCs upgraded.                                      | Y               | Y       | Y      | Y       | Y       | Y     | Y      | Y            | Y            | Y     | Y     | Y    | Y           | Y    | Y    | Y    | Y    | Y     | Y           | Y    | Y    | Y    | Y              | Y        | Y       | Y       | Y                    | Y                                | Y         | -      | -          | Y | Y |
| CR-86805 | IGMP, Tunnel                              | Previously, on devices configured with tunnels, IGMP could stop working on VLAN interfaces.<br><br>This issue has been resolved.  | -               | -       | -      | -       | -       | -     | -      | -            | -            | -     | -     | -    | -           | -    | -    | -    | -    | -     | -           | -    | -    | -    | -              | -        | -       | Y       | Y                    | Y                                | -         | -      | Y          | Y |   |
| CR-87592 | IPsec, ISAKMP                             | Previously, VPN connections from some Windows clients could fail to establish if the client sent a large number of root certificates, which exceeded the maximum packet size accepted by the router.<br><br>This issue has now been resolved, and the maximum packet size has been increased. | -               | -       | -      | -       | -       | -     | -      | -            | -            | -     | -     | -    | -           | -    | -    | -    | -    | -     | -           | -    | -    | -    | -              | -        | -       | Y       | Y                    | Y                                | Y         | -      | -          | Y | Y |
| CR-87254 | Pluggable Transceivers                    | Previously, the SP10TMI module could fail to link up on the x330 platform.<br><br>This issue has been resolved.   | Y               | -       | -      | -       | -       | -     | -      | -            | -            | -     | -     | -    | -           | -    | -    | -    | -    | Y     | -           | -    | -    | -    | -              | -        | -       | -       | -                    | -                                | -         | -      | -          | - | - |
| CR-87197 | PoE                                       | Previously, the HANP "last negotiated" timestamps were not being displayed for affected platforms.<br><br>This issue has been resolved.   | -               | -       | -      | -       | -       | -     | -      | Y            | Y            | Y     | -     | -    | -           | Y    | -    | -    | -    | -     | Y           | -    | -    | -    | -              | -        | -       | -       | -                    | -                                | -         | -      | -          | - | - |

| CR       | Module              | Description  | GS970M/GS970EMX | XS900MX | GS980M | GS980MX | GS980EM | IE220 | IE210L | IE340/IE340L | SE540/SE540L | SE250 | SE240 | x220 | x230, x230L | x240 | x250 | x320 | x330 | x540L | x530, x530L | x550 | x930 | x950 | SBx8100 CFC960 | x908Gen2 | AR1050V | AR3050S | AR4050S / AR4050S-5G | 10GbE UTM Firewall/AR4000S-Cloud | AMF Cloud | ARX200 | TQR Series |   |   |   |
|----------|---------------------|--|-----------------|---------|--------|---------|---------|-------|--------|--------------|--------------|-------|-------|------|-------------|------|------|------|------|-------|-------------|------|------|------|----------------|----------|---------|---------|----------------------|----------------------------------|-----------|--------|------------|---|---|---|
| CR-87679 | PoE                 | Previously, executing the <b>show platform power-inline</b> command on an x240-52GHXm or x250/x540L-28XHm would result in I/O errors recorded in the log.<br>This issue has been resolved.                       | -               | -       | -      | -       | -       | -     | -      | -            | Y            | Y     | Y     | -    | -           | Y    | Y    | -    | -    | Y     | -           | -    | -    | -    | -              | -        | -       | -       | -                    | -                                | -         | -      | -          | - | - |   |
| CR-86567 | Port Authentication | Previously, on affected stacked platforms with port authentication configured, it was possible for switch lockup to occur if many supplicants joined in a short period of time.<br>This issue has been resolved. | -               | -       | -      | -       | -       | -     | -      | -            | -            | -     | -     | -    | -           | -    | -    | -    | -    | -     | -           | Y    | Y    | Y    | -              | Y        | -       | -       | -                    | -                                | -         | -      | -          | - | - |   |
| CR-87577 | Port Authentication | Previously, the <b>auth supplicant-audit enable</b> command was missing from some IE platforms.<br>This issue has been resolved.   | -               | -       | -      | -       | Y       | Y     | Y      | -            | -            | -     | -     | -    | -           | -    | -    | -    | -    | -     | -           | -    | -    | -    | -              | -        | -       | -       | -                    | -                                | -         | -      | -          | - | - |   |
| CR-87620 | Port Configuration  | Previously, AT-SPSX could fail to link up on SFPP ports when configured for 1000MFull.<br>This issue has been resolved.  | Y               | -       | -      | -       | -       | -     | -      | -            | -            | -     | -     | -    | -           | -    | -    | -    | -    | Y     | -           | -    | -    | -    | -              | -        | -       | -       | -                    | -                                | -         | -      | -          | - | - | - |
| CR-87694 | Port Configuration  | Previously, after boot up, on rare occasions a port may have failed to link up on affected platforms.<br>This issue has been resolved.   | -               | -       | -      | -       | -       | -     | -      | -            | Y            | Y     | Y     | -    | -           | Y    | Y    | -    | -    | Y     | -           | -    | -    | -    | -              | -        | -       | -       | -                    | -                                | -         | -      | -          | - | - | - |
| ER-4913  | RADIUS              | With this software revision, login to console, Telnet, and SSH with user names including '@' characters (e.g. email address) are now supported.<br>ISSU: Effective when CFCs upgraded.                           | Y               | Y       | Y      | Y       | Y       | Y     | Y      | Y            | Y            | Y     | Y     | Y    | Y           | Y    | Y    | Y    | Y    | Y     | Y           | Y    | Y    | Y    | Y              | Y        | Y       | Y       | Y                    | Y                                | Y         | Y      | Y          | Y | Y | Y |

| CR       | Module          | Description  | GS970M/GS970EMX | XS900MX | GS980M | GS980MX | GS980EM | IE220 | IE210L | IE340/IE340L | SE540/SE540L | SE250 | SE240 | x220 | x230, x230L | x240 | x250 | x320 | x330 | x540L | x530, x530L | x550 | x930 | x950 | SBx8100 CFC960 | x908Gen2 | AR1050V | AR3050S | AR4050S / AR4050S-5G | 10GbE UTM Firewall/AR4000S-Cloud | AMF Cloud | ARX200 | TQR Series |   |   |
|----------|-----------------|--|-----------------|---------|--------|---------|---------|-------|--------|--------------|--------------|-------|-------|------|-------------|------|------|------|------|-------|-------------|------|------|------|----------------|----------|---------|---------|----------------------|----------------------------------|-----------|--------|------------|---|---|
| CR-87629 | SSH             | Previously, in extremely rare circumstances, it was possible for an unexpected reboot to occur when disconnecting via SSH, on a TQ6702 Gen2-R TQ Router.<br>This issue has been resolved.  | -               | -       | -      | -       | -       | -     | -      | -            | -            | -     | -     | -    | -           | -    | -    | -    | -    | -     | -           | -    | -    | -    | -              | -        | -       | -       | -                    | -                                | -         | -      | -          | - | Y |
| CR-86975 | Switching       | Previously, some platforms could send packets through copper ports with an inter-packet gap (IPG) smaller than 8 bytes, which could cause the receiving device to drop those packets.<br>This issue has been resolved.   | -               | -       | -      | -       | -       | -     | -      | -            | Y            | -     | -     | -    | -           | Y    | -    | -    | -    | -     | Y           | -    | -    | -    | -              | -        | -       | -       | -                    | -                                | -         | -      | -          | - | - |
| CR-87470 | Traffic Control | Previously, when a traffic-control rule was applied to an entity with a sub-interface, after a reboot the traffic-control rule would no longer be applied to the sub-interface.<br>This issue has been resolved.   | -               | -       | -      | -       | -       | -     | -      | -            | -            | -     | -     | -    | -           | -    | -    | -    | -    | -     | -           | -    | -    | -    | -              | -        | Y       | Y       | Y                    | -                                | -         | -      | Y          | Y |   |
| CR-87598 | VCStack         | Previously, under a specific rare condition where a stack member was repeatedly rebooting, it was possible for the VCStack master to undergo an unexpected reboot.<br>This issue has been resolved.  | -               | Y       | -      | -       | -       | -     | -      | -            | -            | -     | -     | -    | -           | -    | -    | -    | -    | -     | -           | Y    | Y    | Y    | -              | Y        | -       | -       | -                    | -                                | -         | -      | -          | - | - |
| CR-87770 | Wireless Radio  | Previously, when the same MAC filter list was applied to different networks/VAPs, it was duplicated in the wireless configuration for each network.<br>This may have resulted in fewer MAC filter entries being able to be applied to the device.<br>This issue has been resolved. | -               | -       | -      | -       | -       | -     | -      | -            | -            | -     | -     | -    | -           | -    | -    | -    | -    | -     | -           | -    | -    | -    | -              | -        | -       | -       | -                    | -                                | -         | -      | -          | - | Y |

# What's New in Version 5.5.5-1.2

Product families supported by this version:

|                                |                            |
|--------------------------------|----------------------------|
| AMF Plus Cloud                 | SE540L Series <sup>1</sup> |
| SwitchBlade x8100: SBx81CFC960 | SE250 Series <sup>1</sup>  |
| SwitchBlade x908 Generation 2  | SE240 Series <sup>1</sup>  |
| x950 Series                    | XS900MX Series             |
| x930 Series                    | GS980MX Series             |
| x550 Series                    | GS980EM Series             |
| x540L Series                   | GS980M Series              |
| x530 Series                    | GS970EMX Series            |
| x530L Series                   | GS970M Series              |
| x330 Series                    | 10GbE UTM Firewall app     |
| x320 Series                    | ARX200S Series             |
| x250 Series                    | AR4000S-Cloud              |
| x240 Series                    | AR4050S                    |
| x230 Series                    | AR4050S-5G                 |
| x220 Series                    | AR3050S                    |
| IE360 Series                   | AR1050V                    |
| IE340 Series                   | TQ7403-R                   |
| IE220 Series                   | TQ6702 GEN2-R              |
| IE210L Series                  |                            |

1. Not available in all regions

## Introduction

This release note describes the new features in AlliedWare Plus software version 5.5.5-1.2.

Software file details for this version are listed in [Table 1](#) on the next page. You can obtain the software files from the [Allied Telesis Support Portal](#). Log in using your assigned email address and password.

For instructions on how to upgrade to this version, see [“Installing this Software Version” on page 53](#).

For instructions on how to update the web-based GUI, see [“Accessing and Updating the Web-based GUI” on page 55](#). The GUI offers easy visual monitoring and configuration of your device.



**Caution:** Using a software version file for the wrong device may cause unpredictable results, including disruption to the network.

Information in this release note is subject to change without notice and does not represent a commitment on the part of Allied Telesis, Inc. While every effort has been made to ensure that the information contained within this document and the features and changes described are accurate, Allied Telesis, Inc. can not accept any type of liability for errors in, or omissions arising from, the use of this information.

The following table lists model names and software files for this version:

Table 1: Models and software file names

| Models   | Family      | Date    | Software File  |
|--|-------------|---------|--|
| AMF Plus Cloud   |             | 08/2025 | vaa-5.5.5-1.2.iso (VAA OS)<br>vaa-5.5.5-1.2.vhd and<br>upload_vhd.py (for AWS)<br>vaa_azure-5.5.5-1.2.vhd (for<br>Microsoft Azure) |
| SBx81CFC960  | SBx8100     | 08/2025 | SBx81CFC960-5.5.5-1.2.rel  |
| SBx908 GEN2  | SBx908 GEN2 | 08/2025 | SBx908NG-5.5.5-1.2.rel   |
| x950-28XSQ<br>x950-28XTQm<br>x950-52XSQ<br>x950-52XTQm   | x950        | 08/2025 | x950-5.5.5-1.2.rel   |
| x930-28GTX<br>x930-28GPX<br>x930-28GSTX<br>x930-52GTX<br>x930-52GPX  | x930        | 08/2025 | x930-5.5.5-1.2.rel   |
| x550-18SXQ<br>x550-18XTQ<br>x550-18XSPQm   | x550        | 08/2025 | x550-5.5.5-1.2.rel   |
| x540L-28XTm<br>x540L-28XS  | x540L       | 08/2025 | x540-5.5.5-1.2.rel   |
| x530-10GHXm<br>x530-18GHXm<br>x530-28GTXm<br>x530-28GPXm<br>x530-52GTXm<br>x530-52GPXm<br>x530DP-28GHXm<br>x530DP-52GHXm | x530        | 08/2025 | x530-5.5.5-1.2.rel   |
| x530L-10GHXm<br>x530L-18GHXm<br>x530L-28GTX<br>x530L-28GPX<br>x530L-52GTX<br>x530L-52GPX                                 | x530L       | 08/2025 | x530-5.5.5-1.2.rel   |
| x330-10GTX<br>x330-20GTX<br>x330-28GTX<br>x330-52GTX   | x330        | 08/2025 | x330-5.5.5-1.2.rel   |
| x320-10GH<br>x320-11GPT  | x320        | 08/2025 | x320-5.5.5-1.2.rel   |
| x250-18XS<br>x250-18XTm<br>x250-28XS<br>x250-28XTm   | x250        | 08/2025 | x250-5.5.5-1.2.rel   |

Table 1: Models and software file names (cont.)

| Models   | Family         | Date    | Software File                |
|--|----------------|---------|------------------------------|
| x240-10GTXm<br>x240-10GHXm<br>x240-26GHXm  | x240           | 08/2025 | x240-5.5.5-1.2.rel           |
| x230-10GP<br>x230-10GT<br>x230-18GP<br>x230-18GT<br>x230-28GP<br>x230-28GT<br>x230L-17GT<br>x230L-26GT | x230 and x230L | 08/2025 | x230-5.5.5-1.2.rel           |
| x220-28GS<br>x220-52GT<br>x220-52GP  | x220           | 08/2025 | x220-5.5.5-1.2.rel           |
| IE360-12GTX<br>IE360-12GHX   | IE360          | 08/2025 | IE360-5.5.5-1.2.rel          |
| IE340-12GT<br>IE340-12GP<br>IE340-20GP<br>IE340L-18GP  | IE340          | 08/2025 | IE340-5.5.5-1.2.rel          |
| IE220-6GHX<br>IE220-10GHX  | IE220          | 08/2025 | IE220-5.5.5-1.2.rel          |
| IE210L-10GP<br>IE210L-18GP   | IE210L         | 08/2025 | IE210-5.5.5-1.2.rel          |
| SE540L-28XTm<br>SE540L-28XS  | SE540L         | 08/2025 | SE540-5.5.5-1.2.rel          |
| SE250-18XS<br>SE250-18XTm<br>SE250-28XS<br>SE250-28XTm   | SE250          | 08/2025 | SE250-5.5.5-1.2.rel          |
| SE240-10GTXm<br>SE240-10GHXm   | SE240          | 08/2025 | SE240-5.5.5-1.2.rel          |
| XS916MXT<br>XS916MXS   | XS900MX        | 08/2025 | XS900-5.5.5-1.2.rel          |
| GS980MX/10HSm<br>GS980MX/18HSm<br>GS980MX/28<br>GS980MX/28PSm<br>GS980MX/52<br>GS980MX/52PSm           | GS980MX        | 08/2025 | GS980MX-5.5.5-1.2.rel        |
| GS980EM/10H<br>GS980EM/11PT  | GS980EM        | 08/2025 | GS980EM-5.5.5-1.2.rel        |
| GS980M/52<br>GS980M/52PS   | GS980M         | 08/2025 | GS980M-5.5.5-1.2.rel         |
| GS970EMX/10<br>GS970EMX/20<br>GS970EMX/28  | GS970EMX       | 08/2025 | GS970EMX-5.5.5-1.2.rel       |
| GS970M/10PS<br>GS970M/10<br>GS970M/18PS<br>GS970M/18<br>GS970M/28PS<br>GS970M/28                       | GS970M         | 08/2025 | GS970-5.5.5-1.2.rel          |
| AR4000S-Cloud  |                | 08/2025 | AR-4000S-Cloud-5.5.5-1.2.iso |
| ARX200S-GT<br>ARX200S-GTX  | ARX200S        | 08/2025 | ARX200S-5.5.5-1.2.rel        |

Table 1: Models and software file names (cont.)

| Models                           | Family                  | Date    | Software File                                    |
|----------------------------------|-------------------------|---------|--|
| 10GbE UTM Firewall app           |                         | 08/2025 | ATVSTAPL-1.12.1.iso and vfw-x86_64-5.5.5-1.2.app |
| AR4050S<br>AR4050S-5G<br>AR3050S | AR-Series UTM firewalls | 08/2025 | AR4050S-5.5.5-1.2.rel<br>AR3050S-5.5.5-1.2.rel   |
| AR1050V                          | AR-Series VPN routers   | 08/2025 | AR1050V-5.5.5-1.2.rel                            |
| TQ7403-R                         | TQR Wireless AP Router  | 08/2025 | TQ7403R-5.5.5-1.2.rel                            |
| TQ6702 GEN2-R                    | TQR Wireless AP Router  | 08/2025 | TQ6702GEN2R-5.5.5-1.2.rel                        |



**Caution:** Software version 5.5.5-1.x requires a release license for the SBx908 GEN2 and SBx8100 switches. If you are using either of these switches, make sure that each switch has a 5.5.5 license certificate before you upgrade.

Once an SBx908 GEN2 or SBx8100 switch has a version 5.5.5 license installed, that license also covers all later 5.5.5 versions. Such switches will not need a new license before upgrading to later versions.

Contact your authorized Allied Telesis support center to obtain a license. For details, see:

- [“Licensing this Version on an SBx908 GEN2 Switch” on page 49](#) and
- [“Licensing this Version on an SBx8100 Series CFC960 Control Card” on page 51.](#)

## ISSU (In-Service Software Upgrade) on SBx8100 with CFC960

The 5.5.5-1.2 software version is **not** ISSU compatible with previous software versions.

## OpenSSH

As part of this software update, **OpenSSH** has been upgraded to **version 9.9p2**. This upgrade is supported starting from version 5.5.5-1.1.

## New Features and Enhancements

This section summarizes the new features and enhancements in 5.5.5-1.2:

To see how to find full documentation about all features on your product, see [“Obtaining User Documentation”](#) on page 47.

### AMF Plus host key change

*Applies to all AlliedWare Plus devices*

From version 5.5.5-1.2 onwards, the type of host keys used by AMF Plus have changed. You do not have to change your AMF Plus network because of this, but devices running releases **earlier than 5.4.5-0.1** are not fully compatible with devices running 5.5.5-1.2 onwards. See [“AMF Plus software version compatibility”](#) on page 45 for details.

### Using an ACL to deny or permit Directed Broadcasts

*Applies to all AlliedWare Plus devices that support ACLs*

From version 5.5.5-1.2 onwards, IP directed broadcasts can be restricted using an Access Control List (ACL).

Directed broadcasts can be useful (e.g., for Wake-on-LAN), but they can also be abused (e.g., for network attacks like smurf attacks). This means it's useful to limit which source IP addresses are allowed to send these broadcasts.

#### What is an IP Directed Broadcast?

An IP directed broadcast is a broadcast message that is sent to all devices in a specific subnet, but is sent from outside that subnet.

**How it works** A device outside the target subnet sends a packet to the subnet's broadcast address. Routers and devices outside the subnet treat this packet like a normal message and forward it as a unicast message.

When the packet reaches a device inside the target subnet (and that device has directed broadcast enabled), it changes the packet into a Layer 2 broadcast message. This means it sends the message to all devices in the subnet using a special MAC address: FF:FF:FF:FF:FF:FF.

#### Security Control with an ACL

You can use an ACL to decide which source IP addresses are allowed to send these broadcasts. If a packet comes from an IP that's not allowed, it gets blocked (dropped). If it's allowed, it gets forwarded. By default, if a packet doesn't match any rule in the ACL, it's blocked.

To use an ACL:

1. Create the desired named or numbered software ACL

For example, to permit only directed broadcasts from 10.1.1.1/32, you can use the commands:

```
awplus# configure terminal
awplus(config)# access-list standard Example-ACL
awplus(config-ip-std-acl)# permit 10.1.1.1/32
awplus(config-ip-std-acl)# exit
```

2. Apply the ACL to Directed Broadcasts on an interface (for example, VLAN2):

```
awplus(config)# interface vlan2
awplus(config-if)# ip directed-broadcast Example-ACL
```

## Static numbering for device Resource ID

*Applies to x530DP-28GHXm, x530DP-52GHXm, x930, x950, SBx908 GEN2 and SBx8100 Series*

From version 5.5.5-1.2 onwards, the Resource ID for each bay and board will persist through reboots. The Resource ID is a unique identifier assigned to resources within a device for easy reference. There are two classes of resources: 'bay' and 'board'. Bay resources are associated with sensors that monitor a device bay and provide events based on a GPIO input. Board resources consist of sensors that are attached to a specific board.

You can use the following command to view Resource IDs:

```
awplus# show system environment
```

Previously, Resource IDs were assigned sequentially as they were added. Fixed Resource IDs received the initial numbers (1-5 in the example below), while hot swappable boards were added based on detection order. If a board was swapped in later, it would get the last Resource ID and might receive a different ID upon reboot.

Now, the Resource ID of bays will be fixed to the board index that the bay belongs to, and boards will be fixed to the board index that the board belongs to, plus 100.

Table 2: Previous Resource IDs list (example for the x950-28XTQm):

|                |                             |
|----------------|-----------------------------|
| Resource ID: 1 | Name: PSU Bay A (AT-PWR600) |
| Resource ID: 2 | Name: PSU Bay B ( )         |
| Resource ID: 3 | Name: Fan Bay A (AT-FAN05)  |
| Resource ID: 4 | Name: Fan Bay B (AT-FAN05)  |
| Resource ID: 5 | Name: AT-x950-28XTQm        |
| Resource ID: 6 | Name: AT-PWR600             |
| Resource ID: 7 | Name: AT-FAN05              |
| Resource ID: 8 | Name: AT-FAN05              |
| Resource ID: 9 | Name: AT-XEM2-4QS Bay: 1    |

Table 3: After rebooting, the list could change to this:

```
Resource ID: 1 Name: PSU Bay A (AT-PWR600)
Resource ID: 2 Name: PSU Bay B ( )
Resource ID: 3 Name: Fan Bay A (AT-FAN05)
Resource ID: 4 Name: Fan Bay B (AT-FAN05)
Resource ID: 5 Name: AT-x950-28XTQm
Resource ID: 6 Name: AT-XEM2-4QS Bay: 1
Resource ID: 7 Name: AT-PWR600
Resource ID: 8 Name: AT-FAN05
Resource ID: 9 Name: AT-FAN05
```

Table 4: Now, the list will change to this - and not change after reboots:

```
Resource ID: 2 Name: PSU Bay A (AT-PWR600)
Resource ID: 3 Name: PSU Bay B ( )
Resource ID: 4 Name: Fan Bay A (AT-FAN05)
Resource ID: 5 Name: Fan Bay B (AT-FAN05)
Resource ID: 100 Name: AT-x950-28XTQm
Resource ID: 101 Name: AT-XEM2-4QS Bay: 1
Resource ID: 102 Name: AT-PWR600
Resource ID: 104 Name: AT-FAN05
Resource ID: 105 Name: AT-FAN05
```

The Resource ID can be observed in the output of the **show system environment** command.

## Increase in the number of AMF Plus and AWC nodes for x540L series switches

From version 5.5.5-1.2 onwards, x540L series switches support an increased number of AMF Plus and AWC nodes (APs). Now a total of 100 AMF Plus nodes and/or APs are supported. This total is flexible. For example, you can buy licenses for 20 AMF Plus nodes and 80 APs, or for 30 AMF Plus nodes and 70 APs, and so on.

## UDP transport for PTP on x530 and x530L series switches

From version 5.5.5-1.2 onwards, x530 and x530L Series switches support PTP (Precision Time Protocol) over UDP transport.

This feature is an extension to our existing PTP support. Previously, PTP operated only over Layer 2 (L2) transport. With this release, PTP packets can now also be transported using Layer 4 (UDP), supporting both unicast and multicast transmission.

### Configuration notes

PTP over UDP works for both IPv4 and IPv6 and the packets can be unicast or multicast.

To enable PTP over UDP with IPv4, use the following command:

```
ptp-clk transparent transport-type udp v4 delay-mechanism e2e  
step-type onestep
```

For IPv4, the following multicast addresses are supported:

- 224.0.1.129
- 224.0.1.130
- 224.0.1.131
- 224.0.1.132

To enable PTP over UDP with IPv6, use the following command:

```
ptp-clk transparent transport-type udp v6 delay-mechanism e2e  
step-type onestep
```

For IPv6, the following multicast address is supported:

- FF0x::181

## Benefits

PTP over UDP offers several key advantages over traditional Layer 2 (Ethernet-based) transport:

1. **Network Flexibility:** Enables time synchronization across routed Layer 3 networks, ideal for large or segmented environments.
2. **IPv4/IPv6 Compatibility:** Supports both protocols, ensuring adaptability and future readiness.
3. **Multicast and Unicast Options:** Offers flexible deployment models for both broad and targeted synchronization.
4. **Infrastructure Integration:** Easier to manage with existing network devices, firewalls, and QoS policies.
5. **Cloud and Virtualization Friendly:** Better suited for modern data centres and hybrid cloud environments.
6. **Standards-Based:** Compliant with [IEEE 1588-2008 \(PTPv2\)](#), ensuring broad interoperability.

For more information, see the [Precision Time Protocol \(PTP\) and Transparent Clock Feature Overview and Configuration Guide](#).

## PTP end-to-end transparent clock on x240, x250 and x540L series switches

From version 5.5.5-1.2 onwards, Transparent Clock support is now available on the x240, x250, and x540L platforms.

## What is PTP Transparent Clock?

The Precision Time Protocol (PTP), defined by the IEEE 1588-2008 standard (PTPv2), enables precise time synchronization across networked devices. A Transparent Clock improves timing accuracy by measuring and correcting for the time a PTP packet spends traversing a network switch. This ensures minimal jitter and drift in time-sensitive applications

Commands used with PTP Transparent Clock:

- clock-port
- ptp-clk
- ptp global
- show ptp data transparent
- show ptp port

For more information, see the [Precision Time Protocol \(PTP\) and Transparent Clock Feature Overview and Configuration Guide](#).

## Dynamic ACLs via port authentication on IE340 series switches

From version 5.5.5-1.2 onwards, dynamic ACLs (Access Control Lists) via Port Authentication are supported on the IE340 switch.

## What is Dynamic ACL via port authentication?

It's a way to control network access more precisely for devices (called supplicants) that connect to switch ports and get authenticated using methods like:

- 802.1X
- MAC-based Authentication
- Web-based Authentication

## Key concepts

Dynamic ACLs are rules that are:

- applied automatically to a switch port when a device is authenticated.
- defined on the RADIUS server (based on username or MAC address).
- removed when the device disconnects or becomes unauthenticated.

These ACLs can filter traffic based on:

- IPv4/IPv6 addressing, and protocols like ICMP, UDP, TCP, etc.

Dynamic ACLs can work alongside static ACLs, but once dynamic ACLs are active, you can't add new static ACLs to that port.

## A real-world example

Employee: Bob (HR Manager). Bob connects his laptop to an Ethernet port. He's authenticated via MAC-based authentication.

The RADIUS server sends an ACL to:

- allow access to HR systems.
- block access to development servers.

Bob gets the correct network access based on his role.

For more information on ACLs and port authentication, see the [AAA and Port Authentication Feature Overview and Configuration Guide](#).

## PIM-SSM support for AR and ARX Series

*Applies to AR4000S-Cloud, AR-Series, ARX200S Series devices*

From version 5.5.5-1.2 onwards, the AR4000S-Cloud, AR-Series, and ARX200S Series firewalls and routers support PIM-SSM. The following commands are supported:

```
ip pim ssm default
ipv6 pim ssm default
```

Note that SSM mapping cannot be used on these devices, which means that multicast hosts must use:

- IPv4 hosts: IGMPv3, not IGMPv1 or v2
- IPv6 hosts: MLDv2.

For more information, see the [PIM-SM Feature Overview and Configuration Guide](#).

## Fixed secondary IP address on DHCP-configured eth interfaces

*Applies to AR4050S, AR3050S, AR1050V, AR4000S-Cloud, 10GbE UTM Firewall app, ARX200S Series and TQR Series*

From version 5.5.5-1.2 onwards, you can configure a secondary IP address on eth interfaces that use DHCP to obtain their IP addresses.

For more information, see the [Dynamic Host Configuration Protocol Feature Overview and Configuration Guide](#).

## Manage up to 50 APs using Vista Manager mini on the ARX200S-GTX

From version 5.5.5-1.2 onwards, Vista Manager mini supports the management of up to 50 APs on the ARX200S-GTX firewall. 20 APs can be managed for free, and up to an additional 30 APs with a feature license (up to the 50 AP maximum); see the [datasheet](#) for license details.

For more information, see the [AWC with Vista Manager mini User Guide](#).

## Increase in supported operating temperature range for the ARX200S-GTX

From version 5.5.5-1.2 onwards, the supported operating temperature range is 0-60 degrees Celsius. Previously the maximum supported operating temperature was 50 degrees Celsius. This change does not require any user configuration.

## Automatic notification of new maintenance releases for wireless devices

*Applies to AR4050S-5G, TQ6702 GEN2-R and TQ7403-R devices*

From version 5.5.5-1.2 onwards, the AlliedWare Plus Update Manager will periodically check for newer maintenance firmware release files and new GUI files. If a newer file is available you will see a notification via an alert log message which will appear on the CLI. The GUI will also display a banner message.

Note that the firmware file notification is only for maintenance firmware releases, not minor or major releases. For example, if your device is running 5.5.5-1.2, you will be notified when 5.5.5-1.2 becomes available, but not when 5.5.5-2.1 does.

You must download the file and install it. You can download it using the commands:

```
awplus# update awplus_maint_rel now
awplus# update webgui now
```

When the device downloads a new firmware file, it saves it to the root flash directory. You can then set this as the current boot image. For step-by-step instructions, see ["Installing this Software Version" on page 53](#).

When the device downloads a new GUI file, it saves the file and then restarts the HTTP server with the new version.

You can disable either or both of the notifications by using the commands:

```
awplus# configure terminal
awplus(config)# firmware-update notify-interval never
```

```
awplus(config)# gui notify-interval never
```

For more information about the update manager, see the [Update Manager Feature Overview and Configuration Guide](#).

## MAC filtering per VAP support for TQR Series

From version 5.5.5-1.2 onwards, MAC Filtering has been enhanced to allow configuration per Virtual Access Point (VAP) on TQR series wireless AP routers.

Previously, MAC Filtering was limited to a single list per AP profile. With this update, administrators can assign individual MAC filter lists to specific networks, which correspond to specific VAPs. This enables more precise control over device access across multiple SSIDs.

### Key enhancements

- **Per-VAP MAC Filtering:** Apply MAC filter lists at the network level, allowing unique rules per VAP.
- **Flexible List Management:** Define up to 48 MAC filter lists, each with a unique ID, optional description, and a set of MAC addresses.
- **Permit/Deny Rules:** Each list can permit or deny access. If applied at the AP profile level, its rule overrides the list-level setting.
- **Extended CLI Support:** The CLI now supports MAC Filtering configuration at both the AP profile and network levels.

This feature is especially useful in environments with multiple SSIDs, where different access policies are needed for different user groups or device types—such as separating guest and corporate traffic.

**Note:** When both AP profile and VAP-level filters are configured, the AP profile setting takes precedence and overrides the VAP-level setting.

### New commands

There are two new commands available:

**rule {permit|deny}** This command sets whether the selected MAC filter list permits or denies access. For example, to set the rule to 'permit' for mac-filter 1:

```
awplus# configure terminal
awplus(config)# wireless
awplus(config-wireless)# mac-filter 1
awplus(config-wireless-mac-flt)# rule permit
```

### wireless-mac-filter-id

This command enables MAC filtering on a specific VAP. You can specify either:

- A **MAC filter list ID**, or
- The key word **profile**, which tells the VAP to use the MAC filter configured in the AP profile.

For example, to apply the global MAC filter (configured in the AP profile) to VAPs using network 100, use the following commands:

```
awplus# configure terminal
awplus(config)# wireless
awplus(config-wireless)# network 100
awplus(config-wireless-network)# wireless-mac-filter-id
profile
```

## Updated command

### show wireless wireless-mac-filter

This command now lets you choose to display a MAC filter ID or range of IDs:

```
awplus# show wireless wireless-mac-filter [<macfilter-id>|all]
[brief]
```

```
...
WIRELESS MAC FILTER ID 100:
  Description ..... Floor 1
  Rule ..... deny
  Entries ..... 3
  Entries ..... 2
    MAC address      Description
    -----
    1234.5678.abcd PC lab 1
    0987.6543.abcd guest
    abcd.9876.5432

WIRELESS MAC FILTER ID 200:
  Description .....
  Entries ..... 0
```

## RADIUS over TLS support for TQR Series

From version 5.5.5-1.2 onwards, RADIUS over TLS is supported on TQR Series wireless AP routers. RadSec is an extension to the RADIUS authentication protocol that uses Transport Layer Security (TLS) as the transport protocol. It provides improved security over the standard RADIUS protocol.

For more information, see the [RADIUS Feature Overview and Configuration Guide](#).

## FindMe support for TQR Series

From AlliedWare Plus version 5.5.5-1.2 onwards, the **FindMe** feature is supported on the TQR Series.

## Find a device using the CLI

Use this command to physically locate a specific device from a group of similar devices. Activating the command causes a selected number of port LEDs to alternately flash green then amber (if that device has amber LEDs) at a rate of 1 Hz:

```
findme [interface <port-list>] [timeout <duration>]
```

Use the **no** variant of this command to deactivate the FindMe feature prior to the timeout expiring.

**Examples** To activate the FindMe feature for the default duration (60 seconds) on all ports, use the following command:

```
awplus# findme
```

To activate the Find Me feature for 120 seconds on all ports, use the following command:

```
awplus# findme timeout 120
```

## Clean up unused wireless settings when pulling them from the AWC plugin

*Applies to TQR Series*

Previously, when configurations were managed via the AWC plugin, the wireless TQR device could detect a mismatch in the configuration hash and create a new instance using an available ID. Frequent changes made through the plugin could result in large configuration files, which could trigger a "Failed to start Wireless Firmware Loader" error during reboot. This error could cause the TQR device to enter a reboot loop.

From version 5.5.5-1.2 onwards, you can avoid this issue by using the new **clean-up** parameter when fetching the current running wireless configuration from the AWC plugin:

```
awplus# wireless ap-configuration pull ap local clean-up
```

This new optional parameter removes any unused wireless configurations in the following areas: Network, Security, RADIUS Server Group, and wireless MAC Filters.

# Important Considerations Before Upgrading

Please read this section carefully before upgrading.

This section describes changes that may affect your device or network behavior if you upgrade:

- [Limits to upgrade compatibility on SwitchBlade x908 GEN2, x950 and x930 Series switches](#)
- [Changes that may affect device or network configuration](#)

It also describes the new version's compatibility with previous versions for:

- [Software release licensing](#)
- [Upgrading a VCStack with rolling reboot](#)
- [Forming or extending a VCStack with auto-synchronization](#)
- [AMF Plus software version compatibility](#)
- [Upgrading all devices in an AMF Plus network](#)

Please check previous release notes for other important considerations. For example, if you are upgrading from a 5.5.4-2.x version, please check the 5.5.5-0.x release note as well. Release notes are available from our website, including:

- [5.5.5-x.x release notes](#)
- [5.5.4-x.x release notes](#)
- [5.5.3-x.x release notes](#)
- [5.5.2-x.x release notes](#)
- [5.5.1-x.x release notes](#)
- [5.5.0-x.x release notes](#)
- [5.4.9-x.x release notes](#)
- [5.4.8-x.x release notes](#)
- [5.4.7-x.x release notes](#)
- [5.4.6-x.x release notes](#)

## Limits to upgrade compatibility on SwitchBlade x908 GEN2, x950 and x930 Series switches

These switches can only be upgraded to the most recent firmware versions from specified older firmware versions. If you attempt to upgrade from other older firmware versions, the firmware becomes corrupt and the switch will not boot up.

**The solution** Before upgrading to the latest firmware version, upgrade to one of the specified older versions. See [“Details for SBx908 GEN2 and x950 Series” on page 41](#) and [“Details for x930 Series” on page 42](#) for details.

### Affected Products

The following models could be affected:

| x930 Series running any bootloader version | x950 Series running bootloader versions older than 6.2.24 | SBx908 GEN2 running bootloader versions older than 6.2.24 |
|--|---|---|
| x930-28GTX                                 | x950-28XSQ  | SBx908 GEN2   |
| x930-28GPX                                 | x950-28XTQm   |   |
| x930-52GTX                                 |   |   |
| x930-52GPX                                 |   |   |
| x930-28GSTX                                |   |   |

For SBx908 GEN2 and x950 Series, the restriction only applies to switches running bootloader versions older than 6.2.24.

## Recovering from upgrading from an incompatible version

If you try to upgrade from an incompatible firmware version, the switch will not finish booting up. If this happens, you can recover by using the bootloader menu to boot with a compatible version from an alternative source, such as a USB stick. See the [Bootloader and Startup Feature Overview and Configuration Guide](#) for details.

### Details for SBx908 GEN2 and x950 Series

For these switches, switches where the bootloader is older than 6.2.24 are affected. If your bootloader is older than 6.2.24, you **cannot** upgrade to the most recent firmware version directly from:

- 5.4.9-1.x
- 5.4.9-0.x
- any version before 5.4.8-2.12.

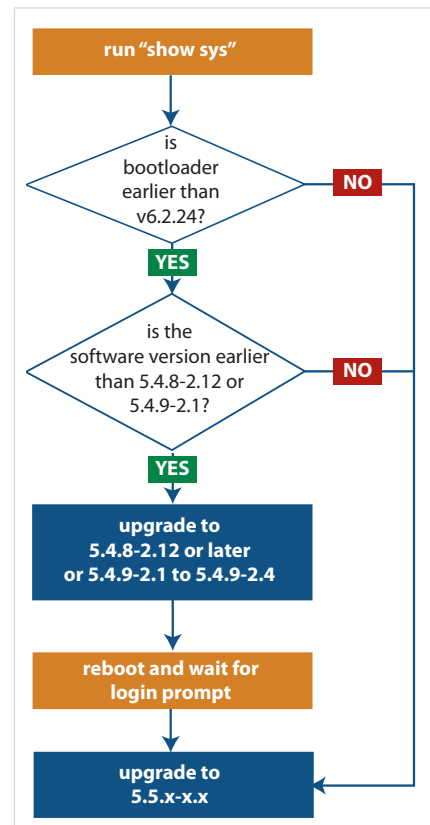
Instead, before upgrading from one of those versions to the current version, make sure your switch is running one of these specified versions:

- 5.4.8-2.12 or a later 5.4.8-2.x version
- 5.4.9-2.1 to 5.4.9-2.4.

If it is not, upgrade to one of these versions before upgrading to the most recent firmware version.

To see your bootloader and current software version, check the "Bootloader version" and "Software version" fields in the command:

```
awplus# show system
```



## Details for x930 Series

For these switches, **versions 5.5.1-2.1 and later** are affected, on switches with all bootloaders. You **cannot** upgrade to most recent firmware version directly from:

- 5.5.1-1.3 or earlier
- 5.5.1-0.x
- 5.5.0-2.11 or earlier
- 5.5.0-1.x
- 5.5.0-0.x
- any version before 5.4.9-2.7.

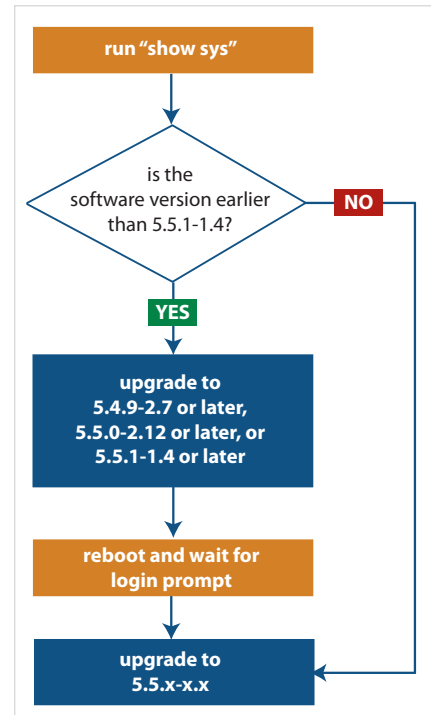
Instead, before upgrading from one of those versions to most recent firmware version, make sure your switch is running one of these specified versions:

- 5.4.9-2.7 or a later 5.4.9-2.x version
- 5.5.0-2.12 or a later 5.5.0-2.x version
- 5.5.1-1.4 or a later 5.5.1-1.x version.

If it is not, upgrade to one of these versions before upgrading to most recent firmware version.

To see your current firmware version, check the “Software version” field in the command:

```
awplus# show system
```



## Changes that may affect device or network configuration

The **license update online** command is no longer available for downloading licenses due to changes in Allied Telesis’ license management portal. This change is applicable to all firmware versions, not just the latest.

| Summary   | Affected devices  | Detail   |
|---|---|--|
| <b>license update online</b> command no longer available. | All AlliedWare Plus devices with subscription licenses across all firmware versions, including previous versions. | Since January 2025, the <b>license update online</b> command is no longer available for downloading licenses. To obtain licenses, please contact your authorized Allied Telesis support center. After obtaining the license, use the <b>license update file</b> command to install it. |
| x240 bootup time increased                                | x240 series   | From 5.5.5-1.2 onwards, the time taken for x240 series switches to boot has increased, to allow for boot-up of stacked switches. On standalone units, you can reduce bootup time by entering <b>no stack 1 enable</b> .  |

## Software release licensing

*Applies to SBx908 GEN2 and SBx8100 Series switches*

Please ensure you have a 5.5.5 license on your switch if you are upgrading to 5.5.5-x.x on your SBx908 GEN2 or SBx8100 switch. To obtain a license, contact your authorized Allied Telesis support center. You will need to provide the MAC addresses of the switches you want to license. For details, see:

- [“Licensing this Version on an SBx908 GEN2 Switch” on page 49](#) and
- [“Licensing this Version on an SBx8100 Series CFC960 Control Card” on page 51.](#)

## Upgrading a VCStack with rolling reboot

*Applies to all stackable AlliedWare Plus switches, except SBx8100*

This version supports VCStack “rolling reboot” upgrades. With the **reboot rolling** command, you can reduce downtime when upgrading a VCStack.

### **For SBx908 GEN2, x950 and x550 Series switches**

You can use rolling reboot to upgrade to this version from:

- All versions from 5.5.0-x.x onwards

On these switches, you **cannot** use rolling reboot to upgrade to this version from any version earlier than 5.5.0-0.x.

### **For x530 Series switches using DAC to stack**

If you are using DACs (Direct Attach Cables) to connect stack members, you can use rolling reboot to upgrade to this version from:

- All versions from 5.5.0-x.x onwards
- 5.4.9-0.x (but not 5.4.9-1.x or 5.4.9-2.x)
- 5.4.8-2.x

### **For other switches and for x530 switches using SFP+ to stack**

Otherwise, you can use rolling reboot to upgrade to this version from:

- All versions from 5.4.5-x.x onwards
- 5.4.4-1.x

### **To use rolling reboot**

First enter the **boot system** command, which will install the new release file on all stack members. Then enter the **reboot rolling** command.

## Forming or extending a VCStack with auto-synchronization

*Applies to all stackable AlliedWare Plus switches*

If you create a VCStack from switches that are running different software versions, auto-synchronization ensures that all members will run the same software version when they boot up.

If auto-synchronization is not supported between the software versions on the devices in your stack, you need to make sure all devices are running the same version before you connect the stack together.

### **For SBx908 GEN2, x950 and x550 Series switches**

Auto-synchronization is supported between this version and:

- All versions from 5.5.0-x.x onwards

On these switches, auto-synchronization is not supported between this version and any version earlier than 5.5.0-0.x.

### **For CFC960 cards in an SBx8100 system**

If you want to combine CFC960 v2 and earlier CFC960 cards in a chassis or stack, make sure that the earlier cards are running 5.5.0-x.x or later before you combine them. This applies whether you:

- add a CFC960 v2 card to a chassis or stack that contains earlier CFC960 cards, or
- add an earlier CFC960 card to a chassis or stack that contains CFC960 v2 cards.

Auto-synchronization will not update the software on the earlier CFC960 cards.

Note that this situation only applies if your chassis or stack includes CFC960 v2 cards that are labeled "SBx81CFC960 v2" on the front panel of the card. All cards that are labeled "SBx81CFC960" are referred to as earlier cards, even if their documentation refers to them as version 2.

If you do combine cards that are running incompatible software, then remove the CFC960 v2 card or cards, update the software on the other cards, and re-install the CFC960 v2 cards.

### **For x530 Series switches using DAC to stack**

If you are using DACs (Direct Attach Cables) to connect stack members, auto-synchronization is supported between this version and:

- All versions from 5.5.0-x.x onwards
- 5.4.9-0.x (but not 5.4.9-1.x or 5.4.9-2.x)
- 5.4.8-2.x

### **For other switches and for x530 switches using SFP+ to stack**

Otherwise, auto-synchronization is supported between this version and:

- All versions from 5.4.7-x.x onwards
- 5.4.6-2.x
- 5.4.6-1.2 and all later 5.4.6-1.x versions.

It is not supported between this version and 5.4.6-1.1 or **any** earlier releases.

## AMF Plus software version compatibility

*Applies to all AlliedWare Plus devices*

We strongly recommend that all nodes in an AMF Plus network run the same software version. However, if this is not possible, then nodes running this version are fully compatible with nodes running 5.4.5-0.1 onwards.

From version 5.5.5-1.2 onwards, the type of host keys used by AMF Plus have changed. You do not have to change your AMF Plus network because of this, but devices running releases **earlier than 5.4.5-0.1** will no longer be able to:

- Use the command **atmf remote-login <node>** to connect to a device running the new software
- Use a number of commands in a single-node working set to a device running the new software. A single-node working set is created using the command **atmf working-set <node>**. The affected commands are:
  - « atmf recover
  - « atmf cleanup
  - « banner login
  - « boot system
  - « boot config
  - « copy
  - « delete
  - « edit
  - « erase factory-default
  - « issu boot
  - « mail
  - « move
  - « mtrace
  - « ping
  - « remote-login (VCS)
  - « terminal monitor
  - « test cable-diagnostics tdr interface
  - « traceroute

## Upgrading all devices in an AMF Plus network

*Applies to all AlliedWare Plus devices*

**This version supports upgrades across AMF Plus networks.** There are two methods for upgrading firmware on an AMF Plus network:

- Reboot-rolling, which upgrades and reboots each node in turn
- Distribute firmware, which upgrades each node, but does not reboot them. This lets you reboot the nodes at a minimally-disruptive time.

You can use either reboot-rolling or distribute firmware to upgrade to this software version, from 5.4.3-2.6 and later.

However, if you use reboot-rolling or distribute firmware to upgrade an AMF Plus network, and any of the devices are running 5.4.7-1.1 or later, then you must initiate the upgrade from a device that is running 5.4.7-1.1 or later. Otherwise, the devices running 5.4.7-1.1 or later will not be upgraded.

If you are using rolling-reboot, we recommend limiting it to working-sets of 42 nodes or fewer.

In summary, the process for upgrading firmware on an AMF Plus network is:

1. Copy the release .rel files for each product family to the media location you intend to upgrade from (Flash memory, SD card, USB stick etc).
2. Decide which AMF Plus upgrade method is most suitable.
3. Initiate the AMF Plus network upgrade using the selected method. To do this:
  - a. create a working-set of the nodes you want to upgrade
  - b. enter the command **atmf reboot-rolling <location>** or **atmf distribute-firmware <location>** where **<location>** is the location of the .rel files.
  - c. Check the console messages to make sure that all nodes are "release ready". If they are, follow the prompts to perform the upgrade.

## Obtaining User Documentation

For full AlliedWare Plus documentation, [click here to visit our online Resource Library](#). For AlliedWare Plus products, the Library includes the following documents:

- **Feature Overview and Configuration Guides** - find these by searching for the feature name and then selecting Configuration Guides in the left-hand menu.
- **Datasheets** - find these by searching for the product series and then selecting Datasheets in the lefthand menu.
- **Installation Guides** - find these by searching for the product series and then selecting Installation Guides in the lefthand menu.
- **Command References** - find these by searching for the product series and then selecting Reference Guides in the lefthand menu.

## Verifying the Release File

To ensure that the release file has not been corrupted or interfered with during download, you can verify the release file. To do this, enter Global Configuration mode and use the command:

```
awplus(config)# crypto verify <filename> <hash-value>
```

where *<hash-value>* is the known correct hash of the file.

This command compares the SHA256 hash of the release file with the correct hash for the file. The correct hash is listed in the table [Hash values for 5.5.5-1.6](#) below or in the release file's sha256sum file, which is available from the [Allied Telesis Support Portal](#).

### Caution



If the verification fails, the following error message will be generated:

**"% Verification Failed"**

**In the case of verification failure, please delete the release file and contact Allied Telesis support.**

All switch models of a particular series run the same release file and therefore have the same hash. For example, all x930 Series switches have the same hash.

If you want the switch to re-verify the file when it boots up, add the **crypto verify** command to the boot configuration file. For more information, see [Getting Started with the AlliedWare Plus Command Line Interface](#).

Table: Hash values for 5.5.5-1.6

| Product family | Software File             | Hash  |
|----------------|---------------------------|---|
| AMF Plus Cloud | vaa-5.5.5-1.6.rel         | 38931435aa2af28af3958bbd6abf61817040a1f3a88d2c5861309fb092bdd545  |
| SBx8100        | SBx81CFC960-5.5.5-1.6.rel | 3f51f5967d9cffad2bd225830e5b5a2942396536a3cc53d01c8f8cf438280c38  |
| SBx908 GEN2    | SBx908NG-5.5.5-1.6.rel    | 6ebd0c6ff0d03b66c1e82774076897daea3de4a7cca0df16dfa8dac2f90c2f8f  |
| x950           | x950-5.5.5-1.6.rel        | 6ebd0c6ff0d03b66c1e82774076897daea3de4a7cca0df16dfa8dac2f90c2f8f  |
| x930           | x930-5.5.5-1.6.rel        | 8dcd4efb8941bb39e277643a23d8d115e35ab184d1ea54946533dd600fc647a6  |
| x550           | x550-5.5.5-1.6.rel        | ae56122a8d8eeb7e2a3e851e03c68dab7ef3103768599693e83ef37c048722fd  |
| x540L          | x540-5.5.5-1.6.rel        | 30c8090be348e3f0f783baf58f55fd77786ad8ecf3d39a85bd92fbd6a61ae378c |
| x530 & x530L   | x530-5.5.5-1.6.rel        | bb9caf47084aa8512f2677f6c543e261a2fcf7ab6c44580959aeb4c7e00e66e9  |

Table: Hash values for 5.5.5-1.6

| Product family | Software File              | Hash   |
|----------------|----------------------------|--|
| x330           | x330-5.5.5-1.6.rel         | a267677e0c6a07c433644602aa88d43ac4e6516b8314b4bede4104714d1e72b2 |
| x320           | x320-5.5.5-1.6.rel         | bb9caf47084aa8512f2677f6c543e261a2fcf7ab6c44580959aeb4c7e00e66e9 |
| x250           | x250-5.5.5-1.6.rel         | 8f4594d72b53523fef9b69a16020cb7e73514bfbf5b302e9ba91a0ba7fce6cf7 |
| x240           | x240-5.5.5-1.6.rel         | d98660ccb36caf7159a6259e8790b3f14d7343e063a116dc4366bb45bb107e6c |
| x230 & x230L   | x230-5.5.5-1.6.rel         | f3d91eacd59e83bff5d73f0b364bccea9afc1fb9f3dc91bef7c368419857f795 |
| x220           | x220-5.5.5-1.6.rel         | f5c5ed64d58ea2ea6585a318a10616c1489e67dbeddac896e0875a39042a1684 |
| IE360          | IE360-5.5.5-1.6.rel        | 6dbf43bad761c5381c861e2d0eba45b4b2db248e73e5dd608fce90c73541e14b |
| IE340 & IE340L | IE340-5.5.5-1.6.rel        | 07f165f14915ed25e351275f38b93b3564e8e3d227fb351ee10ccdb0a92d5adb |
| IE220          | IE220-5.5.5-1.6.rel        | 370f2c53faa1ea651ddaf3e939ec2bf241f70f9663da7f93543bd922b3870d44 |
| IE210L         | IE210-5.5.5-1.6.rel        | f3d91eacd59e83bff5d73f0b364bccea9afc1fb9f3dc91bef7c368419857f795 |
| SE540L         | SE540-5.5.5-1.6.rel        | 30c8090be348e3f0f783baf58f55fd77786ad8ecf3d39a85bd92fdba61ae378c |
| SE250          | SE250-5.5.5-1.6.rel        | 8f4594d72b53523fef9b69a16020cb7e73514bfbf5b302e9ba91a0ba7fce6cf7 |
| SE240          | SE240-5.5.5-1.6.rel        | d98660ccb36caf7159a6259e8790b3f14d7343e063a116dc4366bb45bb107e6c |
| XS900MX        | XS900-5.5.5-1.6.rel        | 6cb03cf60ef067c7925338fd7cadca2b0e936a26b1fe6a169b0c710f18e4d399 |
| GS980MX        | GS980MX-5.5.5-1.6.rel      | bb9caf47084aa8512f2677f6c543e261a2fcf7ab6c44580959aeb4c7e00e66e9 |
| GS980EM        | GS980EM-5.5.5-1.6.rel      | bb9caf47084aa8512f2677f6c543e261a2fcf7ab6c44580959aeb4c7e00e66e9 |
| GS980M         | GS980M-5.5.5-1.6.rel       | f5c5ed64d58ea2ea6585a318a10616c1489e67dbeddac896e0875a39042a1684 |
| GS970EMX       | GS970EMX-5.5.5-1.6.rel     | 7942bea8b453c9d6f993d5400491194fd609aa2ad84aea74121c64a00        |
| GS970M         | GS970-5.5.5-1.6.rel        | 235a1549fef5c774afd2c2aa8d4df78c575ed8674d5c5d01743c85a01172c428 |
| ARX200S        | ARX200S-5.5.5-1.6.rel      | b83ba99eaa40d446a9bfb46fffae3961fe42578750f217f32ef310475303bbe9 |
| AR4050S-5G     | AR4050S-5.5.5-1.6.rel      | 44ee84ca975483c8ebf0d88c36fc85ee21a4e066b46b11117c2f65bb40bcbe29 |
| AR4050S        | AR4050S-5.5.5-1.6.rel      | 44ee84ca975483c8ebf0d88c36fc85ee21a4e066b46b11117c2f65bb40bcbe29 |
| AR3050S        | AR3050S-5.5.5-1.6.rel      | 44ee84ca975483c8ebf0d88c36fc85ee21a4e066b46b11117c2f65bb40bcbe29 |
| AR1050V        | AR1050V-5.5.5-1.6.rel      | d5d36fd3e7d89e172415fac304fc4452e99a505cfd659a557ecaac17c3aa05e6 |
| TQ6702 GEN2-R  | TQ6702GEN2R-5.5.5-1.6.rel  | 54bcc9d14a9cd5298c989eac2093ed4b17259c82fa697e96968de9a78adcd587 |
| TQ6702e GEN2-R | TQ6702eGEN2R-5.5.5-1.6.rel | b354893fda0c9cb7b073077045f74cbcd9e9f7484ac6fd97530990a60c49d243 |
| TQ7403-R       | TQ7403R-5.5.5-1.6.rel      | 90fb9f659f70a199ec248e1be98f8caa814016c3aa0ebf69f7c2bd20fd249dcb |

# Licensing this Version on an SBx908 GEN2 Switch

Release licenses are applied with the **license certificate** command, then validated with the **show license** or **show license brief** commands. Follow these steps:

- Obtain the MAC address for a switch
- Obtain a release license for a switch
- Apply a release license on a switch
- Confirm release license application

## 1. Obtain the MAC address for a switch

A release license is tied to the MAC address of the switch.

Switches may have several MAC addresses. Use the **show system mac license** command to show the switch MAC address for release licensing:

```
awplus#show system mac license
MAC address for licensing:
eccd.6d9d.4eed
```

## 2. Obtain a release license for a switch

Contact your authorized Allied Telesis support center to obtain a release license.

## 3. Apply a release license on a switch

Use the **license certificate** command to apply a release license to your switch.

Note the license certificate file can be stored on internal flash memory, or an external SD card, or on a server accessible by the TFTP, SCP or HTTP protocols.

Entering a valid release license changes the console message displayed about licensing:

```
11:04:56 awplus IMI[1696]: SFL: The current software is not licensed.
awplus#license certificate demo1.csv
A restart of affected modules may be required.
Would you like to continue? (y/n): y
11:58:14 awplus IMI[1696]: SFL: The current software is licensed. Exiting
unlicensed mode.

Stack member 1 installed 1 license

1 license installed.
```

## 4. Confirm release license application

On a stand-alone switch, use the commands **show license** or **show license brief** to confirm release license application.

On a stacked switch, use the command **show license member** or **show license brief member** to confirm release license application.

The **show license** command displays the base feature license and any other feature and release licenses installed on AlliedWare Plus switches. The following example shows output on an SBx908 GEN2 switch:

```
awplus#show license

Board region: Global

Index          : 1
License name   : Base License
Customer name  : Base License
Type of license : Full
License issue date : 20-Mar-2024
Features included : AMF-APP-PROXY, AMF-GUEST, AMF-Starter, BGP-64,
                  EPSR-MASTER, IPv6Basic, L3-FORWARDING,
                  L3-MC-ROUTE, LAG-FULL, MLDSnoop, OSPF-64,
                  RADIUS-100, RIP, VCStack, VRRP

Index          : 2
License name   : 5.5.5
Customer name  : ABC Consulting
Quantity of licenses : 1
Type of license : Full
License issue date : 05-May-2025
License expiry date : N/A
Release       : 5.5.5
```

# Licensing this Version on an SBx8100 Series CFC960 Control Card

Release licenses are applied with the **license certificate** command, then validated with the **show license** or **show license brief** commands. Follow these steps:

- Obtain the MAC address for a control card
- Obtain a release license for a control card
- Apply a release license on a control card
- Confirm release license application

If your CFC960 control card is in a stacked chassis, you do not need to perform these steps on each chassis in the stack, only on the stack master.

If your license certificate contains release licenses for each control card present in a stacked chassis, entering the **license certificate** command on the stack master will automatically apply the release licenses to all the control cards within the stack.

## 1. Obtain the MAC address for a control card

A release license is tied to the control card MAC address in a chassis.

Chassis may have several MAC addresses. Use the **show system mac license** command to show the control card MAC address for release licensing. Note the MAC addresses for each control card in the chassis. The chassis MAC address is not used for release licensing. Use the card MAC address for release licensing.

```
awplus#show system mac license
MAC address for licensing:

Card                MAC Address
-----
1.5                 eccd.6d9e.3312
1.6                 eccd.6db3.58e7

Chassis MAC Address eccd.6d7b.3bc2
```

## 2. Obtain a release license for a control card

Contact your authorized Allied Telesis support center to obtain a release license.

## 3. Apply a release license on a control card

Use the **license certificate** command to apply a release license to each control card installed in your chassis or stack.

Note the license certificate file can be stored on internal flash memory, a USB drive, or on a server accessible by the TFTP, SCP or HTTP protocols.

Entering a valid release license changes the console message displayed about licensing:

```
11:04:56 awplus IMI[1696]: SFL: The current software is not licensed.
awplus#license certificate demo1.csv
A restart of affected modules may be required.
Would you like to continue? (y/n): y
11:58:14 awplus IMI[1696]: SFL: The current software is licensed. Exiting
unlicensed mode.

Stack member 1 installed 1 license

1 license installed.
```

#### 4. Confirm release license application

On a stand-alone chassis, use the commands **show license** or **show license brief** to confirm release license application.

On a stacked chassis, use the command **show license member** or **show license brief member** to confirm release license application.

The **show license** command displays the base feature license and any other feature and release licenses installed on AlliedWare Plus chassis:

```
awplus#show license
OEM Territory : ATI USA
Software Licenses
-----
Index                : 1
License name         : Base License
Customer name        : ABC Consulting
Quantity of licenses : 1
Type of license      : Full
License issue date   : 20-Mar-2024
License expiry date  : N/A
Features included    : IPv6Basic, LAG-FULL, MLDSnoop, RADIUS-100
                    : Virtual-MAC, VRRP

Index                : 2
License name         : 5.5.5
Customer name        : ABC Consulting
Quantity of licenses : -
Type of license      : Full
License issue date   : 05-May-2025
License expiry date  : N/A
Release              : 5.5.5
```

# Installing this Software Version



**Caution:** This software version requires a release license for the SBx908 GEN2 and SBx8100 switches. Contact your authorized Allied Telesis support center to obtain a license. For details, see:

- [“Licensing this Version on an SBx908 GEN2 Switch” on page 49](#) and
- [“Licensing this Version on an SBx8100 Series CFC960 Control Card” on page 51.](#)

To update the firmware:

1. Copy the software version file (.rel) onto your TFTP server or your USB drive.
2. If necessary, delete or move files to create space in Flash memory for the new file. To see the memory usage, use the command:

```
awplus# show file systems
```

To list files, use the command:

```
awplus# dir
```

To delete files, use the command:

```
awplus# del <filename>
```

You cannot delete the current boot file.

3. Copy the new release from your TFTP server or your USB drive onto the device. To copy the release file from a TFTP server to flash memory, enter Privileged Exec mode and enter the command:

```
awplus# copy tftp flash
```

To copy the release file from a USB device, when your current directory is the top-level flash directory, enter the command:

```
awplus# copy usb:<source-filename> flash
```

On SBx8100 Series switches, you only need to copy the new release to the Active SBx81CFC960 Control Fabric Card (CFC). If your SBx8100 system has a standby CFC installed, the new release file, the configuration file, and all licenses are automatically synchronized from the Active CFC.

4. Move from Privileged Exec mode to Global Configuration mode, using:

```
awplus# configure terminal
```

Then set the switch to reboot with the new software version:

| Product             | Command   |
|---------------------|---|
| SBx8100 with CFC960 | <code>awplus (config)# boot system SBx8100-5.5.5-1.6.rel</code> |
| SBx908 GEN2         | <code>awplus (config)# boot system ARX200S-5.5.5-1.6.rel</code> |
| x950 series         | <code>awplus (config)# boot system x950-5.5.5-1.6.rel</code>    |
| x930 series         | <code>awplus (config)# boot system x930-5.5.5-1.6.rel</code>    |
| x550 series         | <code>awplus (config)# boot system x550-5.5.5-1.6.rel</code>    |
| x540L series        | <code>awplus (config)# boot system x540-5.5.5-1.6.rel</code>    |
| x530 series         | <code>awplus (config)# boot system x530-5.5.5-1.6.rel</code>    |

| Product         | Command  |
|-----------------|--|
| x330 series     | <code>awplus (config)# boot system x330-5.5.5-1.6.rel</code>         |
| x320 series     | <code>awplus (config)# boot system x320-5.5.5-1.6.rel</code>         |
| x250 series     | <code>awplus (config)# boot system x250-5.5.5-1.6.rel</code>         |
| x240 series     | <code>awplus (config)# boot system x240-5.5.5-1.6.rel</code>         |
| x230 series     | <code>awplus (config)# boot system x230-5.5.5-1.6.rel</code>         |
| x220 series     | <code>awplus (config)# boot system x220-5.5.5-1.6.rel</code>         |
| IE360 series    | <code>awplus (config)# boot system IE360-5.5.5-1.6.rel</code>        |
| IE340 series    | <code>awplus (config)# boot system IE340-5.5.5-1.6.rel</code>        |
| IE220 series    | <code>awplus (config)# boot system IE220-5.5.5-1.6.rel</code>        |
| IE210L series   | <code>awplus (config)# boot system IE210-5.5.5-1.6.rel</code>        |
| SE540L series   | <code>awplus (config)# boot system SE540-5.5.5-1.6.rel</code>        |
| SE250 series    | <code>awplus (config)# boot system SE250-5.5.5-1.6.rel</code>        |
| SE240 series    | <code>awplus (config)# boot system SE240-5.5.5-1.6.rel</code>        |
| XS900MX series  | <code>awplus (config)# boot system XS900-5.5.5-1.6.rel</code>        |
| GS980M series   | <code>awplus (config)# boot system GS980M-5.5.5-1.6.rel</code>       |
| GS980EM series  | <code>awplus (config)# boot system GS980EM-5.5.5-1.6.rel</code>      |
| GS980MX series  | <code>awplus (config)# boot system GS980MX-5.5.5-1.6.rel</code>      |
| GS970EMX series | <code>awplus (config)# boot system GS970EMX-5.5.5-1.6.rel</code>     |
| GS970M series   | <code>awplus (config)# boot system GS970-5.5.5-1.6.rel</code>        |
| AR4050S-5G      | <code>awplus (config)# boot system AR4050S-5.5.5-1.6.rel</code>      |
| AR4050S         | <code>awplus (config)# boot system AR4050S-5.5.5-1.6.rel</code>      |
| AR3050S         | <code>awplus (config)# boot system AR3050S-5.5.5-1.6.rel</code>      |
| AR1050V         | <code>awplus (config)# boot system AR1050V-5.5.5-1.6.rel</code>      |
| ARX200S series  | <code>awplus (config)# boot system ARX200S-5.5.5-1.6.rel</code>      |
| TQ6702 GEN2-R   | <code>awplus (config)# boot system TQ6702GEN2R-5.5.5-1.6.rel</code>  |
| TQ6702e GEN2-R  | <code>awplus (config)# boot system TQ6702eGEN2R-5.5.5-1.6.rel</code> |
| TQ7403-R        | <code>awplus (config)# boot system TQ7403R-5.5.5-1.6.rel</code>      |

Return to Privileged Exec mode and check the boot settings, using:

```
awplus (config)# exit
awplus# show boot
```

5. Reboot using the new software version.

```
awplus# reload
```

# Accessing and Updating the Web-based GUI

This section describes how to access the GUI to manage and monitor your AlliedWare Plus switch.

The GUI is a convenient tool for monitoring your device's status and performing basic management tasks. Its dashboard provides at-a-glance monitoring of traffic and other key metrics.

On AR4050S and AR3050S firewalls, you can use the GUI to create an advanced application-aware firewall with features such as Application control and Web control. Alternatively, you can configure real-time threat protection with URL filtering, Intrusion Prevention and Malware protection.

On select AlliedWare Plus devices, you can also optimize the performance of your Allied Telesis APs through Vista Manager mini.

## Browse to the GUI

**Note:** In version 5.5.2-2.1, AlliedWare Plus was enhanced so that only strong cipher suites can be used for accessing the Device GUI. This may prevent some very old browsers from accessing the GUI.

Perform the following steps to browse to the GUI.

1. If you haven't already, add an IP address to an interface. For example:

```
awplus> enable
awplus# configure terminal
awplus(config)# interface vlan1
awplus(config-if)# ip address 192.168.1.1/24
```

Alternatively, on unconfigured devices you can use the default address, which is:

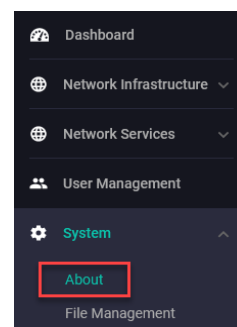
- « on switches: 169.254.42.42
- « on AR-Series: 192.168.1.1

2. Open a web browser and browse to the IP address from step 1.
3. The GUI starts up and displays a login screen. Log in with your username and password. The default username is *manager* and the default password is *friend*.

## Check the GUI version

To see which version you have, open the **System > About** page in the GUI and check the field called **GUI version**. The version to use with 5.5.5-1.x is **2.21.0**.

If you have an earlier version, update it as described in "Update the GUI on switches" on page 56 or "Update the GUI on AR-Series devices" on page 57.



## Update the GUI on switches

Perform the following steps through the Device GUI and command-line interface if you have been running an earlier version of the GUI and need to update it.

1. Obtain the GUI file from the [Allied Telesis Support Portal](#). The GUI filename to use with AlliedWare Plus v5.5.5-1.x is awplus-gui\_555\_39.gui.

The file is not device-specific; the same file works on all devices. Make sure that the version string in the filename (e.g. 555) matches the version of AlliedWare Plus running on the switch.

2. Log into the GUI:

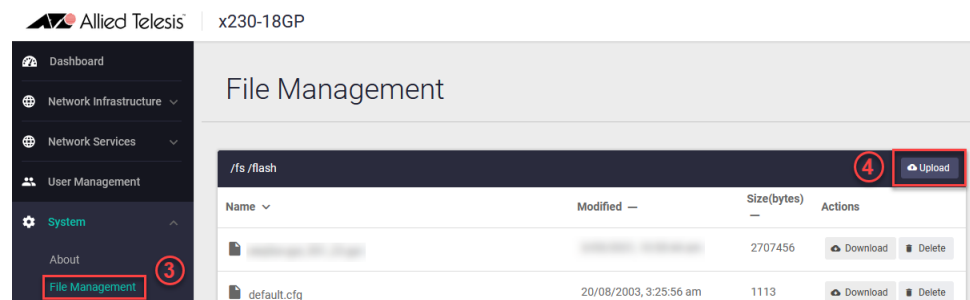
Start a browser and browse to the device's IP address, using HTTPS. You can access the GUI via any reachable IP address on any interface.

The GUI starts up and displays a login screen. Log in with your username and password.

The default username is *manager* and the default password is *friend*.

3. Go to **System > File Management**

4. Click **Upload**.



5. Locate and select the GUI file you downloaded from our Support center. The new GUI file is added to the **File Management** window.

You can delete older GUI files, but you do not have to.

6. Reboot the switch. Or alternatively, use **System > CLI** to access the command line interface, then use the following commands to stop and restart the HTTP service:

```
awplus> enable
awplus# configure terminal
awplus(config)# no service http
awplus(config)# service http
```

To confirm that the correct file is now in use, then use the commands:

```
awplus(config)# exit
awplus# show http
```

## Update the GUI on AR-Series devices

**Prerequisite:** On AR-Series devices, if the firewall is enabled, you need to create a firewall rule to permit traffic generated by the device that is destined for external services. See the “Configuring a Firewall Rule for Required External Services” section in the [Firewall and Network Address Translation \(NAT\) Feature Overview and Configuration Guide](#).

Perform the following steps if you have been running an earlier version of the GUI and need to update it.

1. Log into the GUI and use **System > CLI** to access the command line interface.
2. Use the following commands to download the new GUI:

```
awplus> enable  
awplus# update webgui now
```
3. Browse to the GUI and check that you have the latest version now, on the **System > About** page. You should have v2.21.0 or later.

