

AXIS OS release notes

AXIS OS release notes

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AXIS OS release notes

About

About

Welcome to the AXIS OS Release Notes, a repository for the release notes about new features, security and other improvements for different AXIS OS tracks. *AXIS OS* is the Linux-based operating system used in most of your Axis network devices. It's purpose-built to live up to the most important criteria(s) for network devices: high standards for cybersecurity, ease of integration, quality, and long-term value.

- Release notes for the archived *AXIS OS* releases are accessible in the *AXIS OS Release Notes Archive*.
- More information about the *AXIS OS* upgrade recommendations and upgrade strategy can be found in the *AXIS OS Lifecycle*.
- In the *AXIS OS Knowledge base* you will find more information about *AXIS OS* features and functionality.

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AXIS OS 12

AXIS OS 12

Go to *Products on active track - AXIS OS 12 on page 72* for a list of products on this track.

AXIS OS 12.2

Release date: 2025-01-07 - 2025-01-16



AXIS OS 12.2 release update



Axis Communica...
26 400 prenumeranter



Watch the release update *YouTube video* that summarises the highlights.

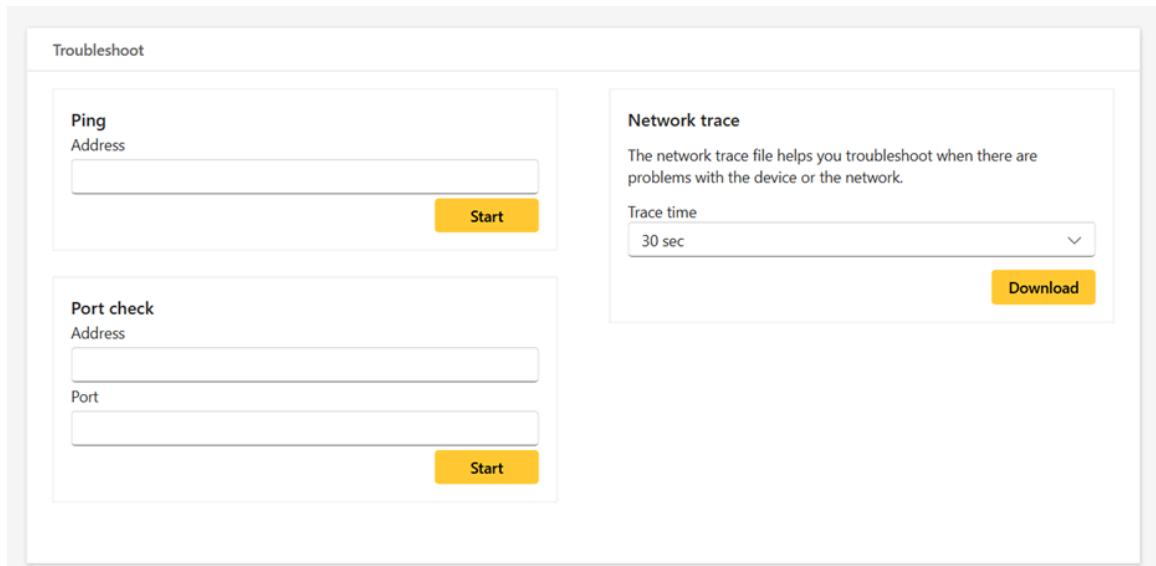
A concise 2-page flyer highlighting key features and updates, along with explanations of each feature's functionality and customer value, is available *here*.

Features for all products

- A new page for troubleshooting is added to the web interface. Network trace, ping and port check is possible.

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- Dynamic DNS updates added to network page in web interface.
- Added the option to use pixel counter on paused image.
- Added the ability to select the Axis logo to return the home page in the web interface.
- Added the possibility to choose a custom file name for send video clip in the action rules.
- Added the ability to select more audio encoding options in Audio > Stream in the web interface.
- Added a default rate limit for SSH connections of three new connection per second.
- Extended the Firewall API that was first added in AXIS OS 11.8 (February 2024). It is now possible to filter for MAC-addresses, IP- and port-range, limit the number of new connections and filter for both UDP and TCP traffic. The firewall configuration is also part of the server report. The web interface will be updated to support the functionality in one of the next coming AXIS OS releases.

Cybersecurity updates

- Addressed *CVE-2025-0359*, *CVE-2025-0360* and *CVE-2024-47259*. These CVE's will be externally disclosed on 4 March 2025, more detailed information will follow then. For more information, please visit the *Axis vulnerability management portal*.
- Updated glib, addressing *CVE-2024-52533*.
- Updated libexpat to version 2.6.4, addressing *CVE-2024-50602*.
- Updated wpa-suplicant to version 2.11 to increase overall cybersecurity level.
- Added support for using public key authentication with SSH users.

Analytics updates

- The metadata producer is moved to the analytics section, in the web interface.
- AXIS Object Analytics
Note that not all products support AXIS Object Analytics. For more information on compatible products and features, see *AXIS Object Analytics*.
 - Added new tailgating scenario.

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- Added Personal Protective Equipment (PPE) monitoring scenario as beta, for non explosion protected camera.
- Added a autopilot scenario for combined Q series camera.
- Removed beta tag for PPE scenario for explosion protected cameras.
- Solved translation error between traditional Chinese language and simple Chinese language.
- **AXIS License Plate Verifier**
Applies to: AXIS P1465-LE-3, AXIS P3265-LVE-3 and AXIS Q1800-LE-3
 - Added plate confidence to VAPIX events.
 - Updated the Genetec Integration with new data, vehicle direction, device location Latitude/Longitude, vehicle type and color, country and region.
 - Corrected an issue with Update status event images and storage.
 - Corrected an issue where Push Events were not received in TCP, in combination with proxy function.
 - Corrected an issue with Slovakian plates where a T would be read as an I.
 - Corrected an issue with country classification for Canadian number plates.
 - Corrected an issue with User Interface cached pages.
- **AXIS Image Health Analytics**
 - Improve detection.
 - Improve test alarm.

Product specific features

- Added the Best snapshot overlay and object attributes in the metadata visualization in the web interface.
Applies to: All product based on *AXIS ARTPEC-8 on page 70*, *AXIS ARTPEC-7 on page 70* and *Ambarella CV25 on page 71*
- Added a new MQTT API to send analytics data to enable integration with cloud services.
Applies to: All product based on *AXIS ARTPEC-8 on page 70*, *AXIS ARTPEC-7 on page 70* and *Ambarella CV25 on page 71*
- **AXIS Audio Manager Edge:** Improved the setup of Paging sources.
Added option to reset music volume to default value at midnight each night.
Applies to: AXIS C1110-E, AXIS C1111-E, AXIS C1210-E, AXIS C1211-E, AXIS C1510, AXIS C1511, AXIS C1610-VE, AXIS C8110 and AXIS C8210
- Update of terminology used when configuring actions on buttons in web interface.
Page contact --> One-way
Call contact --> Two-way
Announcement --> Play a file
Applies to: AXIS C6110
- Improved radar classification performance.
Applies to: AXIS D2110-VE
- **AXIS Sensor Metrics Dashboard:**
Applies to: AXIS F9111 and AXIS F9114/-B
 - Added a "Dashboard" tab where modbus data sources display live data
 - Added the ability to set "Sensor Type" and "Sensor Unit".
 - Added timestamp for when files are deleted, in "Datafiles" tab.
 - Combined forces of "pitch" and "tilt" used in accelerometer tilt event.

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- Value range for "tilt" changed to [-90, 90]
- Added Automatic volume control functionality making it possible to dynamically adjusting the volume based on the ambient noise level.
Applies to: AXIS I7010-VE and AXIS I7020
- AXIS Image Health Analytics is added as pre-installed application.
Applies to: AXIS M1135/-E Mk II, AXIS M1137/-E Mk II, AXIS M5074, AXIS M5075/-G , AXIS P1468-XLE, AXIS P5654-E Mk II, AXIS P5655-E, AXIS P5676-LE, AXIS Q1615/-LE Mk III, AXIS Q1798-LE, AXIS Q6074/-E, AXIS Q6075/-E/-S/-SE, AXIS Q6078-E, AXIS Q6135-LE, AXIS Q6225-LE, AXIS Q6315-LE, AXIS Q6318-LE, D201-S XPT Q6075 and ExCam XPT Q6075
- Added basic SNMP support in the web interface.
Applies to: AXIS S3008, AXIS S3008 MK II and AXIS S3016
- Added minimum and maximum speed in consolidated metadata to radar products.
Applies to: AXIS Q1656-DLE and AXIS Q1686-DLE
- Added new Traffic Assistant wizard to simplify the configuration of the radar for speed violation detection and wrong-way detection.
Added license plate recognition event as specified in Annex G3 of ONVIF Analytics Service Specification.
Applies to: AXIS Q1686-DLE

AXIS OS 12.2.63

Release date: 2025-02-05

Corrections

- Resolved an issue that caused failure of the ONVIF conformance test.
Applies to: AXIS D2210-VE, AXIS Q1800-LE and AXIS Q1800-LE-3

AXIS OS 12.2.62

Release date: 2025-01-29

Corrections

AXIS Object Analytics

Note that not all products support AXIS Object Analytics. For more information on compatible products and features, see *AXIS Object Analytics*.

- Improved algorithm for Occupancy in Area.

AXIS OS 12.2.61

Release date: 2025-01-22

Product specific features

- Hardware modifications have been made to proactively prepare for the new NDAA 23 regulations that will be required in 2028. You will find more information about NDAA Compliance on *axis.com*. In AXIS OS knowledge base, you will find more about the *hardware changes*. The hardware ID can be found in Plain config > Properties > System > Hardware ID.
 - Products with Hardware ID A20 only supports active track 12.2.61 and later, as well as upcoming LTS 2024 version and later.
Applies to: AXIS Q1806-LE
 - Products with Hardware ID A21 and A22 only supports active track 12.2.61 and later, as well as upcoming LTS 2024 version and later.
Applies to: AXIS P1387, AXIS P1387-B, AXIS P1387-BE, AXIS P1387-LE, AXIS P1388, AXIS P1388-B, AXIS P1388-BE and AXIS P1388-LE

Corrections

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- Corrected an issue that allowed the heater to start in low power mode after an upgrade.
Applies to: AXIS Q1805-LE, AXIS Q1806-LE, AXISQ1808-LE

AXIS OS 12.2.59

Release date: 2025-01-16

Corrections

- Corrected an issue where a name was misspelled in the event list.
Applies to: AXIS Q1686-DLE
- Resolved an issue that caused failure of the ONVIF conformance test.
Applies to: AXIS A8207-VE Mk II, AXIS I7010-VE, AXIS I7020, AXIS I8016-LVE and AXIS I8116-E

AXIS OS 12.2.52

Release date: 2025-01-07 - 2025-01-09

New products

- AXIS Q1728

Corrections

- Improved log messages for upload images to FTP.
- Improved password validation for network shares.
- Improved "Start Recording" functionality to prevent simultaneous continuous recording.
- Corrected an issue with high bitrate in ONVIF streams.
- Corrected a problem with gaps in the exported Matroska files when they were recorded at 50/60 FPS.
- Corrected an issue in the web interface, System > Time and Location > Device Location > Longitude, where the longitude accepted only 2 digits instead of 3 as it should.
- **AXIS Audio Manager Edge:**
Input gain will no longer be set to 30 dB when creating a new two-way paging recipient. Input gain will instead retain its current value.
Corrected an issue where certain music sources could be unintentionally muted during volume adjustment.
Applies to: AXIS C1110-E, AXIS C1111-E, AXIS C1210-E, AXIS C1211-E, AXIS C1510, AXIS C1511, AXIS C1610-VE, AXIS C8110 and AXIS C8210
- Corrected an issue when non-ASCII characters (e.g. ü or ö) are used in the radar map file name.
Applies to: AXIS D2110-VE, AXIS D2210-VE, AXIS Q1656-DLE and AXIS Q1686-DLE
- Corrected an issue where credentials was required for adding SIP proxy server even if it was not set up that way.
Applies to: AXIS I8116-E
- Corrected an issue with audio microphone pairing.
Applies to: AXIS P1385, AXIS P1385-B, AXIS P1387, AXIS P1387-B, AXIS P1388 and AXIS P1388-B
- Corrected an issue with increase/decrease rate when using Fahrenheit.
Applies to: AXIS Q1961-TE, AXIS Q1961-XTE, AXIS Q1971-E and AXIS Q2101-TE
- Improves contrast of small object in low dynamic scenes.
Applies to: AXIS Q1971-E and AXIS Q2101-TE
- Corrected an intermittent focus issue that sometimes caused blurry images when using wide-angle or partial zoom modes.
Applies to: AXIS Q6315-LE

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AXIS OS 12.1

Release date: 2024-11-13 - 2025-01-07

The image shows a YouTube video player interface. At the top left, there is a menu icon and the YouTube logo. The video thumbnail features a dark background with several Axis security cameras and a large yellow diagonal stripe. The text on the thumbnail reads "AXIS OS" in large white letters, followed by "Maximize your Axis product." Below the thumbnail, the video title is "Software release update AXIS OS 12.1 (November 2024)". The video is from the channel "Axis Communications" (26,200 subscribers) and is marked as "Premiererat". The video has 25 likes and options for sharing, downloading, and more actions.

Watch the release update *YouTube video* that summarises the highlights.

As a complement there is also a 2-page flyer, that contains the key features and updates of the specific release. For each feature and update, we clearly describe the function and the customer value. If you are curious about this, you find the very first flyer, covering AXIS OS 12.1, [here](#).

Features for all products

- Added a new recommended default authentication mode for the `root.Network.HTTP.AuthenticationPolicy` parameter which enables basic authentication for HTTPS connections to follow the IT-industry standard. Digest authentication is possible to enable for unencrypted HTTP connections. More information about this mode can be found in the *VAPIX Library*.
- Added the possibility to specify which video format should be used by default in the web client by setting the parameter `Plain config > Layout > Default video format`.
- Added support for multiple dynamic text overlay in ADA and actoin rules.
- Increased the possible maximum length of the MQTT overlay key.
- Added support for Extreme Networks' Fabric Attach™ through LLDP-TLV extension which is enabled by default to allow for simplified and automated device onboarding. For more information, please visit the *AXIS OS Knowledge base*.

Cybersecurity updates

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- Updated cURL to version 8.10.1 to increase overall cybersecurity level.
- Addressed *CVE-2024-8772* and *CVE-2024-8160*. These CVEs will be externally disclosed on 26 November 2024 as part of our ongoing commitment to cybersecurity. Detailed information will follow then. For more information, please visit the *Axis vulnerability management portal*.
- Added the possibility to set new global HTTP/HTTPS proxy settings in the web interface under System > Network.
- Restricted access to param.cgi so that only authorized administrators can configure privacy masks.

Breaking changes

- Removed the obsolete IPFilter param.cgi parameters as the new Firewall Service is replacing them appropriately. The removed parameters are *Network.Filter.Enabled*, *Network.Filter.Input.AcceptAddresses*, *Network.Filter.Input.Policy* and *Network.Filter.Log.Enabled*
- The WebService Discovery (WS-Discovery) protocol is disabled by default. It only applies for factory defaulted devices and is possible to enable through the VAPIX API: *WebService.DiscoveryMode.Discoverable*. MDNS is the preferred way of discovering Axis devices on networks.
- Removed the possibility to format SD cards to the vFAT file system. However, they can still be used as before.
Applies to: All products with SD card support.

Analytics updates

- **AXIS Object Analytics**
Note that not all products support AXIS Object Analytics. For more information on compatible products and features, visit the *AXIS Object Analytics*.
 - Updated scenario setup for products based on *Ambarella CV25 on page 71*.
 - Improved algorithm for multichannel products.
 - Improved detection algorithm. Note that not all products support AXIS Object Analytics.
- **AXIS License Plate Verifier**
Applies to: AXIS P1465-LE-3 and AXIS P3265-LVE-3
 - Improved on Australian libraries with extended plate formats to increase license plate reads for Custom/Personalized plates.
 - Improved on Mexican libraries with characters that are situated very close to the frame of the license plate.
 - Corrected a stability issue related to Australia and New Zealand region number plates.
 - Corrected an issue with max character filter.
 - Corrected an issue with Singapore region which was not listed in some camera models.
- **Early fire detection**
Applies to: AXIS Q1961-TE, AXIS Q1961-XTE, AXIS Q1971-E and AXIS Q2101-TE
 - Corrected an issue where the current preset was not always selected in the drop-down menu on the settings page.
 - General improvements.
- **AXIS Image Health Analytics** is added as pre-installed application.
Applies to: AXIS P1385/-B/-BE/-E, AXIS P1387/-B/-BE/-LE, AXIS P1388/-B/-BE/-LE and AXIS P3267-LVE Mic
- Added a rename event to improve post-processing tracking of objects that reappear in the scene.
Applies to: Products based on *AXIS ARTPEC-8 on page 70* and *Ambarella CV25 on page 71*.
Note that it is not applicable to AXIS M4317-PLR/-PLVE, AXIS M4318-PLR/-PLVE, AXIS M4327-P, AXIS M4328-P, AXIS XFQ1656, AXIS P1468-XLE and AXIS P3827-PVE

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Product specific features

- Hardware modifications have been made to proactively prepare for the new NDAA 23 regulations that will be required in 2028. You will find more information about NDAA Compliance on axis.com. In AXIS OS knowledge base, you will find more about the *hardware changes*. The hardware ID can be found in Plain config > Properties > System > Hardware ID.
 - Products with Hardware ID A08 only supports active track 12.1.60 and later, as well as LTS 2024 version 11.11.127 and later, and LTS 2022 version 10.12.270 and later.
Applies to: AXIS M3088-V
 - Products with Hardware ID A09 only supports active track 12.1.60 and later, as well as LTS 2024 version 11.11.128 and later.
Applies to: AXIS M3128-LVE
 - Products with Hardware ID A07 only supports active track 12.1.60 and later, as well as LTS 2024 version 11.11.127 and later.
Applies to: AXIS M4218-V and AXIS M4218-LV
 - Products with Hardware ID 9FC, 9FD and 9FE only supports active track 12.1.60 and later, as well as LTS 2024 version 11.11.124 and later.
Applies to: AXIS P1465-LE 9mm, AXIS P1465-LE 29mm and AXIS P1465-LE-3
 - Products with Hardware ID A14 and A15 only supports active track 12.1.60 and later, as well as upcoming version of LTS 2024 and later.
Applies to: AXIS P3738-PLV and AXIS P4708-PLVE
- AXIS Audio Manager Edge: Added the volumeControllers API endpoint that makes it possible to adjust different volumes within the system.
Applies to: AXIS C1110-E, AXIS C1111-E, AXIS C1210-E, AXIS C1211-E, AXIS C1510, AXIS C1511, AXIS C1610-VE, AXIS C8110 and AXIS C8210
- Added support for additional colors for the front LED. The new colors are *yellow, purple, turquoise* and *white*. Previously, it was possible to produce these colors by selecting multiple colors but this option is now removed and such profiles will be moved to the new colors on update.
Applies to: AXIS C1110-E, AXIS C1111-E, AXIS C1210-E, AXIS C1211-E, AXIS C1310-E Mk II, AXIS C1410 Mk II, AXIS C1510, AXIS C1511, AXIS XC1311,
- Added the possibility to disable/enable USB ports in the web-interface or via VAPIX API.
Applies to: AXIS D1110
- Updated the appearance of 1+3 video channel.
Applies to: AXIS F9114 Main Unit and AXIS F9114-B Main Unit
- Added support for sensor AXIS F2107-RE and AXIS F2137-RE.
Applies to: AXIS F9104-B Main Unit, AXIS F9111 Main Unit, AXIS F9114 Main Unit and AXIS F9114-B Main Unit
- Added support for including license plate crops in Base64 format within the VehicleInformation metadata event when using Axis License Plate Verifier. Improved the performance of License plate and speed association and removing the license plate capture from stationary vehicles.
Applies to: AXIS Q1686-DLE
- Improved the map calibration, with the possibility to edit the calibration, zoom rotate the map, move the radar and rotate the radar. For more information watch this [Youtube video](#).
Applies to: AXIS D2110-VE, AXIS D2210-VE, AXIS Q1656-DLE and AXIS Q1686-DLE
- Added the possibility to read the power consumption from the Power Meter function as an overlay.
Applies to: All products with Power Meter support
- AXIS PTZ Autotracking has been integrated into AXIS OS and is now located under the PTZ tab in the web interface.
Applies to: All product with PTZ Autotracking support..
- Improved setup time for SD cards by moving parts to the background.
Applies to: All products with SD card support.

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AXIS OS 12.1.72

Release date: 2025-01-07

Corrections

- Corrected an issue where the connection to Genetec server were lost, when T99 PT head was used.
Applies to: AXIS M7104, AXIS M7116, AXIS P1385/B/-BE/-E, AXIS P1387/-B/-BE/-LE, AXIS P1388/-B/-BE/-LE, AXIS P7304, AXIS P7316, AXIS Q1615 MK III, AXIS Q1615-LE Mk III, AXIS Q1656/-B/-BE/-BLE/-DLE/-LE, AXIS Q1715, AXIS Q2102-E and AXIS XEQ1656

AXIS OS 12.1.70

Release date: 2024-12-09

New products

- AXIS Q1800-LE
- AXIS Q1800-LE-3

Corrections

- Corrected an issue where the AXIS Audio Manager Pro ACAP application could not update audio configuration.
Applies to: AXIS C1110-E, AXIS C1111-E, AXIS C1210-E, AXIS C1211-E, AXIS C1310-E MK II, AXIS C1410 MK II, AXIS C1510, AXIS C1511, AXIS C1610-VE, AXIS C8110 and AXIS C8210
- Corrected an issue with dark image in low light.
Applies to: AXIS M3125-LVE, AXIS M3126-LVE, AXIS M3128-LVE, AXIS M4215-LV/-V and AXIS M4218-LV/-V

AXIS OS 12.1.66

Release date: 2024-11-25

Corrections

- Corrected an issue where changes in the audio output volume through the web interface were not applied correctly to the SIP calls and the recorded audio clips.
Applies to: AXIS M1075-L and AXIS Q9307-LV

AXIS OS 12.1.64

Release date: 2024-11-20

Corrections

- Corrected an issue where sending image and video through HTTP/HTTPS with digest authentication was not working correctly together with global proxy.
- Corrected problem where WebRTC streaming did not work in some situations.

AXIS OS 12.1.60

Release date: 2024-11-13

Corrections

- Removed templates in the Axevent API as they do not work after removing root privileges in AXIS OS 12.0.
- Corrected an issue where the browser selected Simplified Chinese automatically while it should have selected the Traditional Chinese.
- Corrected an issue where the image upload file naming was not correct.

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- Corrected an issue in application upgrade when using AXHttp.
- Corrected an issue with the description of the modifier in the text overlay.
- Corrected an issue with customhttpheader.cgi that could make the web interface inaccessible.
- Corrected an issue that could cause the device to stop responding if the video processing system was stopped unexpectedly.
Applies to: AXIS I7010-VE, AXIS I7020, AXIS I8116-E, AXIS M1055-L, AXIS M1075-L, AXIS M2035-LE, AXIS M2036-LE, AXIS M3085-V, AXIS M3086-V, AXIS M3088-V, AXIS M3125-LVE, AXIS M3126-LVE, AXIS M3128-LVE, AXIS M4215-LV/-V, AXIS M4216-LV/-V and AXIS M4218-LV/-V
- Corrected an issue where SIP calls using unicast was not working correctly.
Applies to: AXIS C8110
- Corrected an issue where the camera stopped streaming and the web interface became inaccessible.
Applies to: AXIS M3085-V, AXIS M3088-V, AXIS M4215-LV/-V and AXIS M4218-LV/-V
- Removed the support for altering white light states through the the ONVIF API.
Applies to: AXIS Q1656-DLE, AXIS Q8615-E,AXIS Q8752-E
- Corrected an issue where the incorrect MAC address was shown.
Applies to: AXIS Q1808-LE
- Corrected an intermittent focus issue that sometimes caused blurry images when using wide-angle or partial zoom modes.
Applies to: AXIS Q6315-LE and AXIS Q6318-LE
- Corrected an issue where the camera could move out of control if it received multiple rapid preset calls.
Applies to: AXIS Q8752-E
- Corrected an intermittent issue with low image quality and bitrate in RTSP-streams, when using Zipstream in combination with PTZ commands.
Applies to: All products based on *AXIS ARTPEC-7 on page 70* and *AXIS ARTPEC-8 on page 70* with PTZ support.
- Increased the minimum size of a viewarea to the same size as the smallest video streaming resolution when adding a new viewarea.
Applies to: All products based on *AXIS ARTPEC-8 on page 70* with viewarea support.

AXIS OS 12.0

Release date: 2024-09-30 – 2024-10-21

NOTICE

- **AXIS Camera Station Pro:** For full support for cameras on AXIS OS 12, you must use AXIS Camera Station Pro 6.3 or later. Within short, a service release for AXIS Camera station 5.57 will be made available. Older versions of AXIS Camera Station 5 and Pro will not have full compliance with AXIS OS 12.
- **AXIS Perimeter Defender 3.6.0 required.** Versions 3.5.1 and earlier are not compatible with AXIS OS 12.0 or higher. Follow these *instructions* to perform the upgrade correctly.
- **AXIS License Plate Verifier 2.12.8 required.** Versions 2.8.4 or earlier are not compatible with AXIS 12 or higher. Follow these *instructions* to perform the upgrade correctly.
- **AXIS People Counter 5.0.5 required.** Versions 4.6.108 and earlier are not compatible with AXIS OS 12 or higher. Follow these *instructions* to perform the upgrade correctly.
- **AXIS Audio Manager Pro:** AXIS OS 12 requires AXIS Audio Manager Pro 4.6.2 or later. Before upgrading devices to AXIS OS 12 or later, make sure that AXIS Audio Manager Pro 4.6.2 or later is running.
- **AXIS Device Manager:** Before upgrading devices to AXIS OS 12 or later, make sure that the Trusted Platform Module (TPM) modules do not require additional upgrade via ACAP because it will affect the certificate operations. Read more in note #3 in *Cryptographic support* in the Knowledge base.

AXIS OS release notes

AXIS OS 12



AXIS OS 12.0 release update



Watch the release update *YouTube video* that summarises the highlights, or read through the full list of changes below.

Features for all products

- Implemented the IPv4 compliance i.e. AXIS OS devices no longer have default IP addresses. The Axis OS devices will use IP addresses either from a DHCP server or from a statically configured address. The devices will only revert to link-local addresses if an IP address conflict is detected or if a DHCP server is not available on the network. Go to the AXIS OS Knowledge base for more information on the *IPv4 address transition*.
- Added the Network.RTSPS.Ciphers VAPIX parameter to configure cryptographic ciphers for secure video streaming over SRTP/RTSPS.
- Changed the firewall default policy to "Allow" to prevent accidental lockouts when activating the firewall.
- Added the possibility to disable the anonymous access of Basic Device Info properties.
- Updated the default Content-Security-Policy (CSP) HTTP(S) header. Visit the AXIS OS Knowledge base for an overview of the *default header configuration*.
- Added support for selecting MQTT client status as a condition when creating event rules.
- Updated the look and feel of the web interface.

Cybersecurity updates

- Addressed *CVE-2024-7784*. For more information, please visit the *Axis vulnerability management portal*.

AXIS OS release notes

AXIS OS 12

Note that downgrading the product to an older AXIS OS version other than LTS 2024 version 11.11.109 or later as well as LTS 2020 version 10.12.225 or later, is not possible.

Applies to: Products based on *AXIS ARTPEC-8 on page 70*, *I.MX 6SX on page 71*, *I.MX 6ULL on page 72*, *I.MX 8M-NANO on page 72*, *I.MX 8M-Mini on page 72* and *I.MX 8QP/M on page 72*

- Addressed *CVE-2024-6509* and *CVE-2024-6979*. For more information, please visit the *Axis vulnerability management portal*.
- Removed the root-privileged access to Axis products and ACAP applications indefinitely without the possibility to enable it. This change applies to the factory default settings as well as when upgrading to AXIS OS 12 from any previous version of AXIS OS. This has been communicated since May 2023, read the *full guide* for more information.
- Updated Apache to version 2.4.62, addressing *CVE-2024-40725* and *CVE-2024-40898*.
- Updated cURL to version 8.9.1, addressing *CVE-2024-8096*.
- Updated OpenSSL to version 3.0.15, addressing *CVE-2024-6119* and *CVE-2024-5535*.
- Updated OpenSSH to version 9.8p1, addressing *CVE-2024-6387*.
- Preconfigured the Axis device ID P-256 ECC client certificate for IEEE 802.1X. Previously, it was the RSA-2048 version.
- Updated the supported TLS versions for the SMTP client so only TLS 1.2 or higher is supported.
- Improved default security by removing the blow weak ciphers for TLS connections: DHE-RSA-AES128-GCM-SHA256 and DHE-RSA-AES256-GCM-SHA384.

Breaking changes

- Disabled the UPnP discovery protocol. It only applies for factory defaulted devices. It is possible to enable through the VAPIX API: `Network.UPnP.Enabled`. MDNS is the preferred way of discovering Axis devices on networks.
- Disabled HTTP Port 80 redirects, if the device is configured to HTTPS-only, to increase the overall device security.
- Removed the "IP-Filtering"-service and replaced by host-based firewall service, available since AXIS OS 11.8.
- Removed support for TLS 1.0/1.1 HTTPS connections to increase overall security level.
- Removed support for OpenSSL 1.1.1 which is replaced by OpenSSL 3. Read more on the Open Source library support in *AXIS OS portal*.
- Removed support for SMB 1.0 and 2.0 to increase overall cybersecurity level.
- Changed the object type from Bicycle to Bike in ONVIF metadata stream.
- Removed "tt:ClassDescriptor/tt:ClassCandidate" from Analytics Scene description. ONVIF recommends using "tt:ClassDescriptor/tt:Type".
- Removed the old web interface, also called "*AXIS OS web version B*".
- Removed root-privileged access for ACAP applications. Please read the *full guide* for more information.
- Changed the behavior for ACAPs to abort post-installed script installation and return an error if it fails.
- Removed the libcapture library for ACAPs. Please use the Video capture API instead. For more information, visit the *ACAP SDK Documentation*.
- Removed the `vaconfig.cgi` VAPIX API since it is obsolete.
- Removed the `getBrand.cgi` VAPIX API. It is recommended to use the Basic Device Information VAPIX API instead, see more info in the *VAPIX Library*.
- Removed the `axis-release/releaseinfo.cgi` in VAPIX API. It is recommended to use the Basic Device Information VAPIX API instead, see more info in the *VAPIX Library*.

AXIS OS release notes

AXIS OS 12

- Removed the lightcontrol webservice API and replaced by lightcontrol JSON API. Please see the *VAPIX Library* for more information.
- Removed the legacy overlays. The ability to create overlays through parameter.cgi is removed. For more information go to *developer community*.
- Changed the VAPIX Rate Control API to make it simpler. This was communicated earlier in *developer community*.
- Removed the unused functionality or parameters in privacy_mask.cgi and param.cgi, while those utilized in the previous version have been preserved. The following is moved in privacy_mask.cgi: preview_on, preview_off, query list, query position, ptpolygon, imagerotation, imageresolution, zoomlowlimit. The following is removed in param.cgi: parameter Image.I[source].Overlay.MaskWindows.PtPolygon.
- Removed the basic analytics ACAP applications due to updates to the framework. Applies to Axis Basic Enter-Exit, Axis Basic Object Counter and Axis Basic Object Removed.
Applies to: AXIS Q6074/-E, AXIS Q6075/-S/-SE and ExCam XPT Q6075

Analytics updates

- AXIS Object Analytics
 - Added Class/reason to all alarm scenarios events.
 - Updated Line Crossing for alarms events.
 - Improved detection algorithm for Artpec 7 cameras.
 - Added Beta Tag to Occupancy in Area for DLPU Fisheye Cameras.
 - Crossline Counting added to DLPU Fisheye Camera.

Note that not all products support AXIS Object Analytics. Note that not all products support AXIS Object Analytics. For more information on compatible products and features, visit the *AXIS Object Analytics*.

- AXIS License Plate Verifier
 - Improved stability and memory optimization.
 - Improved on state recognition for USA number plates where stuck letters such as FT or LR could affect the state recognition of the plate.
 - Improved the libraries for Austrian number plates.
 - Added support for Singapore license plates.
 - Added support for the new license plate prefix region MUC for German license plates.
 - Corrected an issue with too many descriptor files open in buffered events.
 - Corrected an issue for Push Events, wrong value in the Lost event in Unicode filed (umlauts).
 - Corrected an issue when saving sensitivity setting value. - Corrected an issue when camera switches between day and night mode.
 - Corrected an issue when the default HTTP/HTTPS port is changed on the camera.
 - Corrected an issue with the Test button under Push Events, where test events were not received by AXIS Camera Station.
- AXIS Perimeter Defender
 - Version 3.6.0 or higher is required.
 - AXIS Perimeter Defender 3.5.1 and earlier versions are not compatible with AXIS OS 12.0 or higher.

AXIS OS release notes

AXIS OS 12

- How to upgrade: Before upgrading to AXIS OS 12.0 or higher, ensure that AXIS Perimeter Defender is upgraded to version 3.6.0 or higher.
- If you upgrade a camera running AXIS Perimeter Defender 3.5.1 or earlier to AXIS OS 12.0, the application will not be available. However, a simple rollback to the previous version of AXIS OS will restore the application without any loss of configuration.
- AXIS Image Health Analytics is added as pre-installed application.
Applies to: AXIS M3215-LVE, AXIS M3216-LVE, AXIS P1465-LE, AXIS P1465-LE-3, AXIS P1467-LE, AXIS P1468-LE, P3265-V/-LV/-LVE, AXIS P3267-LV/-LVE, AXIS P3268-LV/-LVE/-SLVE, AXIS Q1656/-B/-BE/-BLE/-DLE/-LE, AXIS Q1805-LE, AXIS Q1806-LE, AXIS Q1808-LE, AXIS Q3536-LVE, AXIS Q3538-LVE/-SLVE, AXIS Q3626-VE and AXIS Q3628-VE

Product specific features

- Hardware modifications have been made to proactively prepare for the new NDAA 23 regulations that will be required in 2028. You will find more information about NDAA Compliance on [axis.com](https://www.axis.com). In AXIS OS knowledge base, you will find more about the *hardware changes*. The hardware ID can be found in Plain config > Properties > System > Hardware ID.
 - Products with Hardware ID 9F9 and 9FA only supports active track 12.0.91 and later, as well as LTS 2024 11.11.124 and later.
Applies to: AXIS P1385, AXIS P1385-B, AXIS P1385-BE and AXIS P1385-E
 - Products with Hardware ID 9FB only supports active track 12.0.91 and later, as well as LTS 2024 11.11.124 and later.
Applies to: AXIS Q1805-LE
- AXIS Audio Manager Edge: Added the possibility to randomize a delay when the intervals of an event starts. Added the targets API endpoint that makes it possible to get online/offline status of devices.
Applies to: AXIS C1110-E, AXIS C1111-E, AXIS C1210-E, AXIS C1211-E, AXIS 1510, AXIS C1511, AXIS C1610-VE, AXIS C8110, AXIS C8210 and AXIS XC1311
- Changed the indicated LED from green to off during normal operation.
Applies to: AXIS C1110-E, AXIS C1111-E, AXIS C1210-E, AXIS C1211-E, AXIS C1310-E Mk II, AXIS C1410 Mk II, AXIS C1510, AXIS C1511, AXIS C1610-VE, AXIS C6110 and AXIS XC1311
- Added support for audio multicast controller to enable users to specify a set of multicast sources to listen to and to prioritize them.
Applies to: AXIS I7010-VE, AXIS I8016-LVE and AXIS I8116-E
- Improved analytics capabilities when wall mounted.
Applies to: AXIS M4317-PLR/-PLVE, AXIS M4318-PLR/-PLVE, AXIS M4327-P and AXIS M4328-P
- Added the event configuration pages in the web interface for more configuration options. A warning is shown when existing rules are changed.
Applies to: AXIS S3008, AXIS S3008 Mk II and AXIS S3016
- Increased support for up to 50 audio clips.
Applies to: AXIS V5925 and AXIS V5938
- Added wiper support to NTCIP and the possibility to enable clear-view on selected products with speed dry functionality.
Applies to: AXIS Q1656-BE/-BLE/-LE, AXIS Q6135-LE, AXIS Q6225-LE, AXIS Q6315-LE and AXIS Q8752-E
- Added the possibility to enable the disabled switchport.
Applies to: AXIS Q1805-LE, AXIS Q1806-LE, AXIS Q1808-LE and AXIS Q1809-LE

AXIS OS 12.0.98

Release date: 2024-10-21

Corrections

- Corrected an issue where SSH and network share users were removed after upgrade.
- Corrected an issue where live stream not working correctly when connected through RTSPS.

AXIS OS release notes

AXIS OS 12

Applies to: AXIS A8207-VE Mk II, AXIS I7010-VE, AXIS I8016-LVE and AXIS I8116-E

AXIS OS 12.0.96

Release date: 2024-10-10

Corrections

- Improved stability when set to wall mode.
Applies to: AXIS M4308-PLE

AXIS OS 12.0.92

Release date: 2024-10-07

Corrections

- Improved the number of false alarms for static scenes in Axis Object Analytics.
Applies to: AXIS F9104-B, AXIS F9111, AXIS F9114/-B, AXIS P5654-E, AXIS P5654-E Mk II, AXIS P5655-E, AXIS P5676-LE, AXIS Q6074/-E, AXIS Q6075/-E/-S/-SE, AXIS Q6078-E, AXIS Q6135-LE, AXIS Q6225-LE, AXIS Q6315-LE, AXIS Q6318-LE, AXIS Q8615-E, D201-S XPT Q6075 and ExCam XPT Q6075

AXIS OS 12.0.91

Release date: 2024-09-30

New products

- AXIS M3125-LVE
- AXIS M3126-LVE
- AXIS M3128-LVE
- AXIS Q1686-DLE

Corrections

- AXIS Audio Manager Edge: Corrected an issue where streaming from Royal Streaming was not working correctly.
- AXIS Audio Manager Pro: Limitation: To support AXIS OS 12 and higher, an upgrade to AXIS Audio Manager Pro version 4.6.1 or higher is required.
- Corrected an issue where scenario names were not the same between MQTT and AXIS Object Analytics.
- Corrected an issue with time and date format when testing to send email to recipient.
- Corrected an issue where it was not possible to enable DST using root.Time.DST.Enabled.
- Corrected an issue with malformed XML data in the metadata stream.
- Corrected an issue with virtual inputs.
Applies to: AXIS I8016-LVE
- Corrected an issue where not all special characters could be used when adding a new source.
Applies to: AXIS D1110
- Corrected an issue to be able to set the focus through VAPIX API.
Applies to: AXIS M5526-E
- Corrected an issue where it was not possible to upgrade from AXIS OS version 8.20 or older.
Applies to: AXIS A8207-VE Mk II, AXIS FA51, AXIS FA51-B, AXIS FA54, ExCam XF Q1785, XF40-Q1785 and XPQ1785
- Corrected an issue where AXIS TU8003 was not working correctly.

AXIS OS release notes

AXIS OS 12

Applies to: AXIS P3735-PLE, AXIS P3737-PLE and AXIS P3738-PLE

- Corrected an issue where the product could become unavailable over the network after a reboot or a firmware upgrade.
Applies to: AXIS S3016
- Corrected an issue with radar stream orientation when the camera video stream was rotated.
Limitation: The radar video stream will always match the camera rotation. If the camera stream is rotated, the radar live view will rotate as well.
Improved radar pairing function stability and introducing automatic reconnect if the connection between the radar and camera drops.
Applies to: AXIS D2210-VE and AXIS P1465-LE-3
- Improved radar crossline metadata event with additional parameters like the object ID, object class and speed.
Applies to: AXIS D2110-VE, AXIS D2210-VE and AXIS Q1656-DLE
- Corrected an issue which caused timestamps of analytics scene description frames to be out of sync with the video.
Improved radar speed measurement accuracy when road monitoring profile is used in installations where road signs can be the cause for reflections.
Applies to: AXIS Q1656-DLE
- Corrected an issue where audio was not being transmitted correctly over HDMI.
Applies to: AXIS Q1715

AXIS OS release notes

LTS 2024 - 11.11

LTS 2024 - 11.11

Support phase: 2024 – 2029-12-31

Go to *Products on LTS 2024 - 11.11 on page 73* for a list of products on this track.

Note

- When upgrading from LTS 2022 or LTS 2020, please review the breaking changes implemented in AXIS OS 11. These can be found in *Changes in AXIS OS 11* in the AXIS OS Portal .
- Release notes for previous versions of AXIS OS 11 are available *here*.

AXIS OS 11.11.136

Release date: 2025-02-10

Cybersecurity updates

- Addressed *CVE-2024-47261*. This CVE will be externally disclosed on 4 March 2025, more detailed information will follow then. For more information, please visit the *Axis vulnerability management portal*.

Product specific features

- Updated the End User License Agreement.
Applies to: AXIS A8207-VE/Mk II, AXIS I7010-VE, AXIS I7020, AXIS I8016-LVE and AXIS I8116-E

AXIS OS 11.11.135

Release date: 2025-02-10

Features for all products

- The beta tag is removed from the Certificate APIs in the Device Configuration API.

Cybersecurity updates

- Addressed *CVE-2025-0359*, *CVE-2025-0360* and *CVE-2024-47259*. These CVEs will be externally disclosed on 4 March 2025, more detailed information will follow then. For more information, please visit the *Axis vulnerability management portal*.
- Updated glib, addressing *CVE-2024-52533*.
- Updated cURL to version 8.11.1 to increase overall cybersecurity level.

Analytics updates

- AXIS License Plate Verifier
Applies to: AXIS P1445-LE-3, AXIS P1455-LVE-3, AXIS P1465-LE-3, AXIS P3245-LVE-3 and AXIS P3265-LVE-3
 - Added plate confidence to VAPIX events.
 - Updated the Genetec Integration with new data, vehicle direction, device location Latitude/Longitude, vehicle type and color, country and region.
 - Corrected an issue with Update status event images and storage.
 - Corrected an issue where Push Events were not received in TCP, in combination with proxy function.
 - Corrected an issue with Slovakian plates where a T would be read as an I.
 - Corrected an issue with country classification for Canadian number plates.

AXIS OS release notes

LTS 2024 - 11.11

- Corrected an issue with User Interface cached pages.

Product specific features

- Hardware modifications have been made to proactively prepare for the new NDAA 23 regulations that will be required in 2028. You will find more information about NDAA Compliance on axis.com. In AXIS OS knowledge base, you will find more about the *hardware changes*. The hardware ID can be found in Plain config > Properties > System > Hardware ID.
 - Products with Hardware ID A16, A17 and A18 only support upcoming active track 12.3 and later, as well as LTS 2024 version 11.11.135 and later, and upcoming LTS 2022 version and later.
Applies to: AXIS M5074, AXIS M5075 and M5075-G
 - Products with Hardware ID A14 and A15 only support active track AXIS OS 12.1 and later, as well as LTS 2024 version 11.11.135 and later.
Applies to: AXIS P3738-PLV and AXIS P4708-PLVE
- Added support for AXIS T61 Mk II Audio and I/O Interface module.
Applies to: AXIS P3245-LVE-3

Corrections

- Corrected an issue in the Auto Speaker Test when performing Re-calibration.
- Corrected problem where WebRTC streaming did not work in some situations.
- Improved time.cgi API to only display valid time zones, removing obsolete options.
- Corrected an issue causing high RAM usage of the metadata process, improving overall system performance.
- Corrected an issue where configuring both PTZ unit and Multidirectional camera to "HTTPS only" prevented manual PTZ positioning calibration.
- Corrected an issue when midspan is used, the device network interface doesn't go up again after MACsec is deactivated on the switch.
- Corrected an issue that occurred when importing ECC keys using Trusted Platform Module (TPM) for secure key storage.
Applies to: All products with SecureKeystore feature
- Corrected an issue with dark image in low light.
Applies to: AXIS M3125-LVE, AXIS M3126-LVE, AXIS M3128-LVE, AXIS M4215-LV/-V and AXIS M4218-LV/-V
- Updated support for AXIS T61 Mk II Audio and I/O Interface devices.
Applies to: AXIS P3265-LVE-3
- Corrected an issue that allowed the heater to start in low power mode after an upgrade.
Applies to: AXIS Q1805-LE, AXIS Q1806-LE and AXISQ1808-LE
- Corrected an intermittent focus issue that sometimes caused blurry images when using wide-angle or partial zoom modes.
Applies to: AXIS Q6315-LE and AXIS Q6318-LE
- Corrected an issue where the device would reboot unexpectedly when enabling IR (Infrared) and using optical zoom simultaneously.
Applies to: AXIS Q6315-LE
- Corrected an issue where the camera could move out of control if it received multiple rapid preset calls.
Applies to: AXIS Q8752-E

AXIS OS 11.11.131

Release date: 2024-12-27

Corrections

- Corrected an intermittent focus issue that sometimes caused blurry images when using wide-angle or partial zoom modes.

AXIS OS release notes

LTS 2024 - 11.11

Applies to: AXIS Q6315-LE

AXIS OS 11.11.128

Release date: 2024-12-18

Product specific features

- Hardware modifications have been made to proactively prepare for the new NDAA 23 regulations that will be required in 2028. You will find more information about NDAA Compliance on [axis.com](https://www.axis.com). In AXIS OS knowledge base, you will find more about the *hardware changes*. The hardware ID can be found in Plain config > Properties > System > Hardware ID.
 - Products with Hardware ID A09 only supports active track 12.1.60 and later, as well as LTS 2024 version 11.11.128 and later.
Applies to: AXIS M3128-LVE

Corrections

- Increased the default amount of audio clips from 10 to 20
Applies to: AXIS D3110.
- Corrected an occasional problem with Wide Dynamic Range (WDR) functionality.
Applies to: AXIS M3088-V, AXIS M3128-LVE and AXIS M4218-LV/-V
- Corrected an issue with dark image in low light.
Applies to: AXIS M3125-LVE, AXIS M3126-LVE, AXIS M3128-LVE, AXIS M4215-LV/-V and AXIS M4218-LV/-V

AXIS OS 11.11.127

Release date: 2025-12-06

Product specific features

Hardware modifications have been made to proactively prepare for the new NDAA 23 regulations that will be required in 2028. You will find more information about NDAA Compliance on [axis.com](https://www.axis.com). In AXIS OS knowledge base, you will find more about the *hardware changes*. The hardware ID can be found in Plain config > Properties > System > Hardware ID.

- Products with Hardware ID A08 only supports active track 12.1.60 and later, as well as LTS 2024 version 11.11.127 and later, and LTS 2022 version 10.12.270 and later.
Applies to: AXIS M3088-V
- Products with Hardware ID A07 only supports active track 12.1.60 and later, as well as LTS 2024 version 11.11.127 and later.
Applies to: AXIS M4218-V and AXIS M4218-LV

Corrections

- Corrected an occasional problem with Wide Dynamic Range (WDR) functionality.
Applies to: AXIS M3088-V , AXIS M3128-LVE and AXIS M4218-V/-LV

AXIS OS 11.11.126

Release date: 2024-12-02

Corrections

- Added support for AXIS T61 Mk II Audio and I/O Interface module.
Applies to: AXIS P3245-LVE-3
- AXIS Audio Manager Edge: Corrected an issue where certain music sources could be unintentionally muted during volume adjustment.

AXIS OS release notes

LTS 2024 - 11.11

Applies to: AXIS C1110-E, AXIS C1111-E, AXIS C1210-E, AXIS C1211-E, AXIS 1510, AXIS C1511, AXIS C1610-VE, AXIS C8110 and AXIS C8210

AXIS OS 11.11.124

Release date: 2024-11-25

Cybersecurity updates

- Addressed *CVE-2024-8772*. This CVE will be externally disclosed on 26 November 2024 as part of our ongoing commitment to cybersecurity. Detailed information will follow then. For more information, please visit the *Axis vulnerability management portal*.
- Updated wpa-supPLICANT to version 2.11 to increase overall cybersecurity level.
- Restricted access to param.cgi so that only authorized administrators can configure privacy masks.

Analytics updates

- **AXIS License Plate Verifier**
Applies to: AXIS P1445-LE-3, AXIS P1455-LE-3, AXIS P1465-LE-3, AXIS P3245-LVE-3 and AXIS P3265-LVE-3
 - Improved on Australian libraries with extended plate formats to increase license plate reads for Custom/Personalized plates.
 - Improved on Mexican libraries with characters that are situated very close to the frame of the license plate.
 - Corrected a stability issue related to Australia and New Zealand region number plates.
 - Corrected an issue with max character filter.
 - Corrected an issue with Singapore region which was not listed in some camera models.

Product specific features

Hardware modifications have been made to proactively prepare for the new NDAA 23 regulations that will be required in 2028. You will find more information about NDAA Compliance on *axis.com*. In AXIS OS knowledge base, you will find more about the *hardware changes*. The hardware ID can be found in Plain config > Properties > System > Hardware ID.

- Products with Hardware ID 9FA and 9F9 only supports LTS 2024 11.11.124 and later.
Applies to: AXIS P1385, AXIS P1385-B, AXIS P1385-BE and AXIS P1385-E
- Products with Hardware ID 9FC, 9FD and 9FE only supports active track 12.1.60 and later, as well as LTS 2024 version 11.11.124 and later.
Applies to: AXIS P1465-LE 9mm, AXIS P1465-LE 29mm and AXIS P1465-LE-3
- Products with Hardware ID 9FB only supports active track 12.0.91 and later, as well as LTS 2024 11.11.124 and later.
Applies to: AXIS Q1805-LE

Corrections

- Corrected an issue where SSH and network share users were removed after upgrade.
- Corrected an issue where the image upload file naming was not correct.
- Corrected a problem with gaps in the exported Matroska files when they were recorded at 50/60 FPS.
- Improved "Start Recording" functionality to prevent simultaneous continuous recording.
- Corrected an issue with virtual inputs.
Applies to: AXIS I8016-LVE

AXIS OS release notes

LTS 2024 - 11.11

- Corrected an issue with audio microphone pairing.
Applies to: AXIS P1385, AXIS P1387 and AXIS P1388
- Corrected an intermittent issue with low image quality and bitrate in RTSP-streams, when using Zipstream in combination with PTZ commands.
Applies to: All products based on *AXIS ARTPEC-7 on page 70* and *AXIS ARTPEC-8 on page 70* with PTZ support.
- Corrected an issue where the incorrect MAC address was shown.
Applies to: AXIS Q1808-LE

AXIS OS 11.11.120

Release date: 2024-10-28

Corrections

- Corrected an issue with playing profiles with durations, ensuring consistent behavior for light and sound effects.
Applies to: AXIS D4100-E
- Corrected an issue that caused devices to stop sending video to the VMS after a restart.
Corrected an issue that could cause the device to stop responding if the video processing system was stopped unexpectedly.
Applies to: AXIS M1075-L
- Corrected an issue where recording stopped after upgrade if global proxy was set on the recorder.
Corrected an issue where SSH and network share users were removed after an upgrade.
Applies to: AXIS S3008. AXIS S3008 MK II and AXIS S3016

AXIS OS 11.11.117

Release date: 2024-10-11

Corrections

- Corrected an issue with virtual inputs.
Applies to: AXIS A8207-VE, AXIS A8207-VE Mk II, AXIS I7010-VE, AXIS I8016-LVE and AXIS I8116-E

AXIS OS 11.11.116

Release date: 2024-10-11

Cybersecurity updates

- Updated cURL to version 8.10.1 to increase overall cybersecurity level.
- Updated OpenSSL to version 3.0.15, addressing *CVE-2024-6119* and *CVE-2024-5535*
- Updated OpenSSL to version 1.1.1za, addressing *CVE-2024-5535*.
- Addressed *CVE-2024-8160*. This CVE will be externally disclosed on 26 November 2024, as part of our ongoing commitment to cybersecurity. Detailed information will follow then. For more information, please visit the *Axis vulnerability management portal*.
- Updated expat (libexpat1) to version 2.6.2, addressing *CVE-2024-45490*, *CVE-2024-45491* and *CVE-2024-45492*.
- Updated h2 servers, addressing *RUSTSEC-2024-0332*.
- Updated libxml2 to version 2.12.8, addressing *CVE-2024-34459*.
- Updated ncurses (libtinfo5), addressing *CVE-2023-45918*.
- Updated ncurses (libncursesw5), addressing *CVE-2023-50495*.

AXIS OS release notes

LTS 2024 - 11.11

- Improved stability and reliability of the certificate management service.

Analytics updates

- AXIS Object Analytics
 - Improved the number of false alarms for static scenes in Axis Object Analytics.
Applies to: D201-S XPT Q6075, ExCam XPT Q6075, AXIS F9104-B Main Unit, AXIS F9111 Main Unit, AXIS F9114/-B Main unit, AXIS P3245-LV/-LVE, AXIS P5654-E/-E Mk II, AXIS P5655-E, AXIS P5676-LE, AXIS Q1951-E, AXIS Q1952-E, AXIS Q6074/-E, AXIS Q6075/-E/-S/-SE, AXIS Q6078-E, AXIS Q6135-LE, AXIS Q6225-LE, AXIS Q6315-LE, AXIS Q6318-LE and AXIS Q8615-E

Note that not all products support AXIS Object Analytics. Note that not all products support AXIS Object Analytics. For more information on compatible products and features, visit the *AXIS Object Analytics*.

Corrections

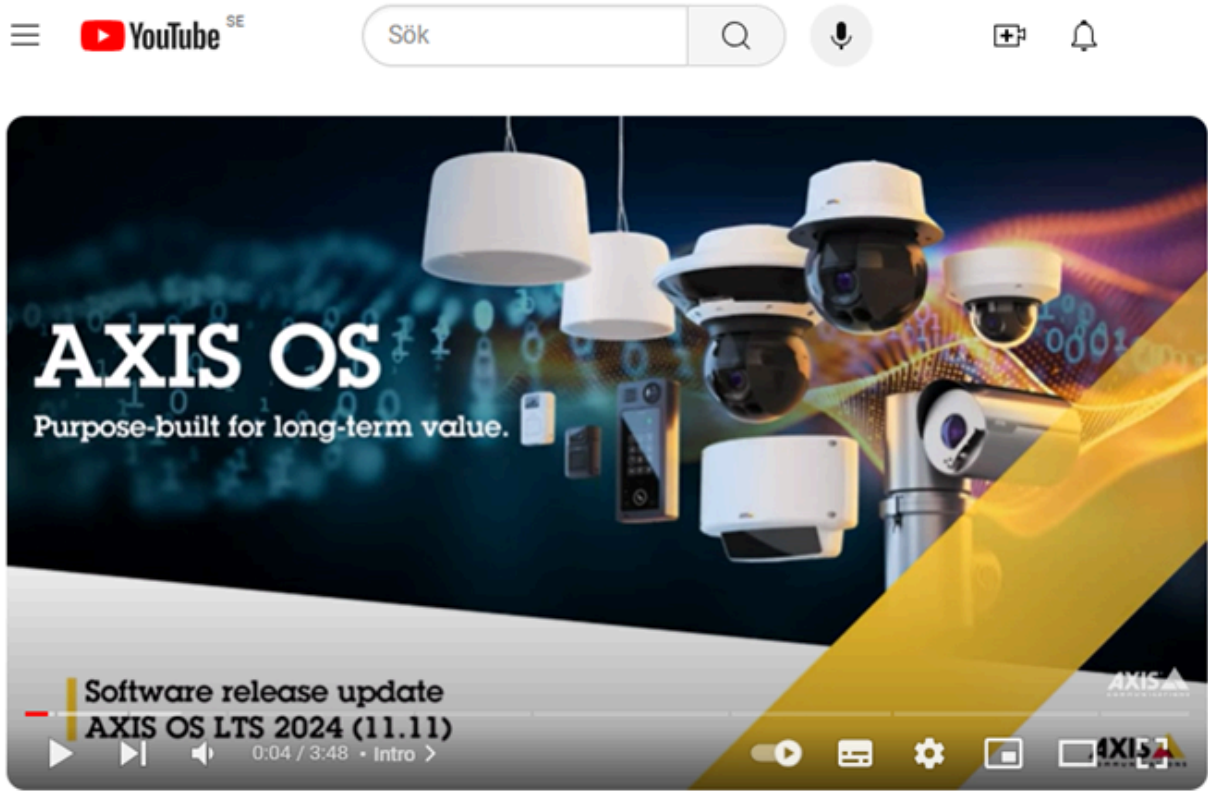
- Corrected an issue with malformed XML data in the metadata stream.
- Corrected an issue where it was not possible to enable DST using root.Time.DST.Enabled.
- Increased the possible maximum length of the MQTT overlay key.
- Changed the indicated LED from green to off during normal operation.
Applies to: AXIS C1110-E, AXIS C1111-E, AXIS C1210-E, AXIS C1211-E, AXIS C1310-E Mk II, AXIS C1410 Mk II, AXIS C1510, AXIS C1511, AXIS C1610-VE and AXIS XC1311
- Improved system stability by resolving memory leaks in audio service during RTSP connection openings and closures, reducing the risk of crashes.
Applies to: AXIS C1110-E, AXIS C1111-E, AXIS C1310-E, AXIS C1310-E Mk II, AXIS C1410, AXIS C1410 Mk II, AXIS C1610-VE, AXIS C8110, AXIS C8210 and AXIS XC1311
- Corrected an issue where the camera stopped streaming and the web interface became inaccessible.
Applies to: AXIS M3085-V, AXIS M3088-V, AXIS M4215-LV/-V and AXIS M4218-LV/-V
- Corrected an issue which caused timestamps of analytics scene description frames to be out of sync with the video.
Applies to: AXIS Q1656-DLE and AXIS Q1686-DLE
- Corrected an issue with the video not being updated using the new web interface.
Applies to: AXIS Q6215-LE
- Corrected an issue where the product could become unavailable over the network after a reboot or a firmware upgrade.
Applies to: AXIS S3016
- Corrected an issue where the camera could move out of control if it received multiple rapid preset calls.
Applies to: AXIS Q8752-E

AXIS OS 11.11.109

Release date: 2024-09-10 – 2024-09-18

AXIS OS release notes

LTS 2024 - 11.11



The image shows a YouTube video player interface. At the top, there is a search bar with the text 'Sök' and a magnifying glass icon. To the right of the search bar are icons for a microphone, a plus sign, and a bell. The video player itself features a dark background with several Axis security cameras of different models and colors (white, black, silver) arranged in a cluster. The text 'AXIS OS' is prominently displayed in large white letters, with the tagline 'Purpose-built for long-term value.' below it. At the bottom of the video player, there is a progress bar and control icons. Below the video player, the title 'AXIS OS LTS 2024 release update' is visible, along with the channel name 'Axis Communicat...' and '25 800 prenumeranter'. There are also icons for 'Prenumererar', '12' likes, 'Dela', and a menu icon.

The first release of AXIS OS LTS 2024 is out. Watch the *release update video* that summarizes the highlights, or read through the complete list of changes below.

Important

A critical issue has been identified when upgrading from latest AXIS OS LTS 2022 10.12.252 to any version other than LTS 2024 11.11.109, on certain Axis products.

This affects: AXIS D3110, AXIS W400, AXIS D4100-E, AXIS M3215-LVE, AXIS M3216-LVE, AXIS P1467-LE, AXIS P1468-LE, AXIS P3265-LV, AXIS P3265-LVE, AXIS P3265-V, AXIS P3267-LV, AXIS P3267-LVE, AXIS P3268-LV, AXIS P3268-LVE, AXIS P3268-SLVE, AXIS Q1656, AXIS Q1656-B, AXIS Q1656-BE, AXIS Q1656-BLE, AXIS Q1656-LE, AXIS Q3536-LVE, AXIS Q3538-LVE, AXIS Q3538-SLVE and AXIS S3008.

Example: If you upgrade from 10.12.252 to 11.11.73, the product will become unusable and completely inaccessible. To minimize the damages, we have unpublished AXIS OS 10.12.252 for the above products.

Upgrading from 10.12.252 to 11.11.109 directly works fine. We are working to solve this issue.

After upgrading to 11.11.109, do not perform a factory default and try to downgrade to another version. This will render your product unusable and inaccessible. A fix for this issue is planned for the upcoming 11.11 LTS release.

If you are experiencing this matter with your device please contact *Axis Technical Services* for help.

New products

- AXIS M3125-LVE
- AXIS M3126-LVE

AXIS OS release notes

LTS 2024 - 11.11

- AXIS M3128-LVE

Features for all products

- Changed the firewall default policy to "Allow" to prevent accidental lockouts when activating the firewall.
- Added support for selecting MQTT client status as a condition when creating event rules.

Cybersecurity updates

- Updated Apache to version 2.4.62, addressing [CVE-2024-40725](#) and [CVE-2024-40898](#).
- Updated libssh2 to version 1.11.0, addressing [CVE-2023-48795](#).
- Updated OpenSSH to version 9.8p1, addressing [CVE-2024-6387](#).
- Addressed [CVE-2024-6509](#) and [CVE-2024-6979](#). For more information, please visit the [Axis vulnerability management portal](#).
- Addressed [CVE-2024-7784](#). For more information, please visit the [Axis vulnerability management portal](#).
Note that downgrading the product to an older AXIS OS version is not possible.
Applies to: Products base on [AXIS ARTPEC-8 on page 70](#), [I.MX 6SX on page 71](#), [I.MX 6ULL on page 72](#), [I.MX 8M-Mini on page 72](#), [I.MX 8M-NANO on page 72](#) and [I.MX 8QP/M on page 72](#)

Analytics updates

- AXIS License Plate Verifier 2.12.8
 - Improved stability and memory optimization.
 - Improved on state recognition for USA number plates where stuck letters such as FT or LR could affect the state recognition of the plate.
 - Improved the libraries for Austrian number plates.
 - Added support for Singapore license plates.
 - Added support for the new license plate prefix region MUC for German license plates.
 - Corrected an issue with too many descriptor files open in buffered events.
 - Corrected an issue for Push Events, wrong value in the Lost event in Unicode filed (umlauts).
 - Corrected an issue when saving sensitivity setting value.
 - Corrected an issue when camera switches between day and night mode.
 - Corrected an issue when the default HTTP/HTTPS port is changed on the camera.

Product specific features

- AXIS Audio Manager Edge: Corrected an issue where streaming from Royal Streaming was not working correctly.
- Improved Radar pairing function stability and introducing automatic reconnect if the connection between the radar and camera drops.
Applies to: [AXIS D2210-VE](#), [AXIS P1465-LE-3](#), [AXIS P3265-LE-3](#) and [AXIS Q1700-LE](#)

Corrections

- Removed example private keys, previously intended for demonstration purposes only, to address security scanner findings.
- Corrected an issue where it was not possible to upgrade from AXIS OS version 8.20 or older.
Applies to: Products based on [AXIS ARTPEC-6 on page 71](#)
- Changed the indicated LED from green to off during normal operation.
Applies to: [AXIS C1110-E](#), [AXIS C1111-E](#), [AXIS C1210-E](#), [AXIS C1211-E](#), [AXIS C1310-E Mk II](#), [AXIS C1410 Mk II](#), [AXIS C1510](#), [AXIS C1511](#), [AXIS C1610-VE](#) and [AXIS XC1311](#)

AXIS OS release notes

LTS 2024 - 11.11

- Corrected an issue with radar stream orientation when the camera video stream was rotated.
Limitation: The radar video stream will always match the camera rotation. If the camera stream is rotated, the radar live view will rotate as well.
Applies to: AXIS D2210-VE, AXIS D2210-VE, AXIS P1465-LE-3, AXIS P3265-LE-3 and AXIS Q1700-LE
- Corrected an issue where AXIS TU8003 was not working correctly.
Applies to: AXIS P3737-PL, AXIS P3747-PLVE and AXIS P3748-PLVE
- Corrected an issue where a3dpc API did not work correctly from the DAX ACAP.
Applies to: AXIS P8815-2
- Corrected an issue where recordings stopped working when global proxy was set on the recorder.
Applies to: AXIS S3008, AXIS S3008 Mk II and AXIS S3016
- Corrected an issue where audio was not being transmitted correctly over HDMI.
Applies to: AXIS Q1715
- Corrected an issue where the focus calibration did not work correctly in the web interface.
Applies to: AXIS Q6010-E and AXIS Q6100-E

The following products will remain on LTS 2024, which means they will have this track as their final track and will not receive AXIS OS 12.

<ul style="list-style-type: none"> • AXIS A8207-VE • AXIS C1310-E • AXIS C1410 • AXIS M3057-PLVE Mk II • AXIS M3068-P • AXIS M3067-P • AXIS P1375/-E • AXIS P1377/-LE • AXIS P1378/-LE • AXIS P1445-LE/-LE-3 • AXIS P1447-LE • AXIS P1448-LE • AXIS P1455-LE/-LE-3 • AXIS P3227-LV/-LVE • AXIS P3228-LV/-LVE 	<ul style="list-style-type: none"> • AXIS P3245-LV/-LVE/-LVE-3 • AXIS P3245-V/-VE • AXIS P3247-LV/-LVE • AXIS P3248-LV/-LVE • AXIS P3255-LVE • AXIS P3715-PLVE • AXIS P3717-PL • AXIS P3719-PL • AXIS P3727-PL • AXIS P3807-PVE • AXIS P8815-2 • AXIS Q1645/-LE • AXIS Q1647/-LE • AXIS Q1659 • AXIS Q1700-LE 	<ul style="list-style-type: none"> • AXIS Q1785-LE • AXIS Q1786-LE • AXIS Q3515-LV/-LVE • AXIS Q3517-LV/-LVE/SLVE • AXIS Q3518-LVE • AXIS Q3527-LVE • AXIS Q6010-E • AXIS Q6100-E • AXIS Q6215 • D101-A XF P3807 • ExCam XF P1377 • ExCam XF Q1645 • ExCam XF P3807 • F101-A XF P1377 • F101-A XF Q1785 • XP40-Q1785
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The following products will remain on LTS 2024, meaning they will have this track as their final track and will not receive AXIS OS 12. However, they will continue to receive Product-specific support (PSS) after the end of LTS 2024 until 2031-12-31.

<ul style="list-style-type: none"> • AXIS D3110 • AXIS D4100 • AXIS M3077-PLVE 	<ul style="list-style-type: none"> • AXIS Q1951-E • AXIS Q1952-E • AXIS Q9216-SLV
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AXIS OS 11 Archived Release Notes

If you're looking for release notes from earlier versions of AXIS OS 11 active track, you can find them [here](#).

AXIS OS release notes

LTS 2022 - 10.12

LTS 2022 - 10.12

Support phase: 2022 – 2027-12-31

Go to *Products on LTS 2022 - 10.12 on page 74* for a list of products on this track.

Release notes for older versions of AXIS OS 10 can be found *here*.

AXIS OS 10.12.270

Release date: 2025-01-27

Product specific features

- Hardware modifications have been made to proactively prepare for the new NDAA 23 regulations that will be required in 2028. You will find more information about NDAA Compliance on *axis.com*. In AXIS OS knowledge base, you will find more about the *hardware changes*. The hardware ID can be found in Plain config > Properties > System > Hardware ID.
 - Products with Hardware ID A08 only supports active track 12.1.60 and later, as well as LTS 2024 version 11.11.127 and later, and LTS 2022 version 10.12.270 and later.
Applies to: AXIS M3088-V

Cybersecurity updates

- Updated cURL to version 8.11.1 to increase overall cybersecurity level.
- Updated glib, addressing *CVE-2024-52533*.
- Addressed *CVE-2024-47260* and *CVE-2024-47262*. These CVEs will be externally disclosed on 4 March 2025. More detailed information will follow then. For more information, please visit the *Axis vulnerability management portal*.

Corrections

- Improved "Start Recording" functionality to prevent simultaneous continuous recording.
- Corrected an issue that occurred when importing ECC keys using Trusted Platform Module (TPM) for secure key storage.
Applies to: All products with SecureKeystore feature
- Corrected a focus issue.
Applies to: AXIS P1377/-E
- Corrected an intermittent focus issue that sometimes caused blurry images when using wide-angle or partial zoom modes.
Applies to: AXIS Q6315-LE and AXIS Q6318-LE
- Corrected an issue where the device would reboot unexpectedly when enabling IR (Infrared) and using optical zoom simultaneously.
Applies to: AXIS Q6315-LE
- Corrected an issue with unexpected reboots when enabling IR and using optical zoom simultaneously.
Applies to: AXIS Q6315-LE
- Corrected an issue where the device would display a black screen when switching from wall to ceiling mounting mode.
Applies to: AXIS Q3819-PVE

AXIS OS 10.12.262

Release date: 2024-11-18

Cybersecurity updates

AXIS OS release notes

LTS 2022 - 10.12

- Addressed *CVE-2024-8772*. This CVE will be externally disclosed on 26 November 2024 as part of our ongoing commitment to cybersecurity. Detailed information will follow then. For more information, please visit the *Axis vulnerability management portal*.
- Addressed *CVE-2023-21418*. For more information, please visit the *Axis vulnerability management portal*.
- Updated libxml2, addressing *CVE-2023-45322* and *CVE-2024-25062*.
- Updated busybox, addressing *CVE-2022-48174*.
- Updated zlib (libz1), addressing *CVE-2023-45853*.
- Restricted access to param.cgi so that only authorized administrators can configure privacy masks.
- Updated wpa-supPLICANT to version 2.11 to increase overall cybersecurity level.
- Corrected an issue with certificates, where the certificate name was used as the identity.

Corrections

- Corrected an issue where Client Stream Data showed wrong FPS as viewer.
Limitation: FPS restriction is removed when adaptive stream is enabled for viewers.
- Corrected an issue where # in network sharing passwords was not supported.
- Corrected an issue where mounting network share with 'space' character in the name was not working correctly.
- Corrected an issue where network share recipient hostname with '-' character was not working correctly.
- Corrected an issue where it sometimes was not possible to change encryption password after reset and format of the edge storage.
- Corrected a focus setting issue that prevented users from accessing certain functionalities, such as open iris to set focus, autofocus, and resetting functions, when using a DC iris with the camera.
Applies to: AXIS P1375, AXIS P1377, AXIS P1378, AXIS Q1645, AXIS Q1645-LE, ExCam XF P1377, ExCam XF Q1645 and F101-A XF P1377
- Addressed unintended presence of Electronic Image Stabilization (EIS) settings in the web interface.
Applies to: AXIS Q1659

AXIS OS 10.12.257

Release date: 2024-10-11

Cybersecurity updates

- Updated cURL to version 8.10.1 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1za to increase overall cybersecurity level.
- Addressed *CVE-2024-8160*. This CVE will be externally disclosed on 26 November 2024, more detailed information will follow then. For more information, please visit the *Axis vulnerability management portal*.
- Updated expat (libexpat1) version 2.6.2, addressing *CVE-2024-45492*, *CVE-2024-45490* and *CVE-2024-45491*.
- Updated ncurses (libncursesw5), addressing *CVE-2023-50495* and *CVE-2023-29491*.
- Updated ncurses (libtinfo5), addressing *CVE-2023-45918*.
- Improved stability and reliability of the certificate management service.

Corrections

- Corrected an issue where the camera could move out of control if it received multiple rapid preset calls.

AXIS OS release notes

LTS 2022 - 10.12

Applies to: AXIS Q8752-E

AXIS OS 10.12.252

Release date: 2024-09-02

Cybersecurity updates

- Updated Apache to version 2.4.62 to increase overall cybersecurity level.
- Updated cURL to version 8.9.0 to increase overall cybersecurity level.
- Updated libssh2 to version 1.11.0 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1y to increase overall cybersecurity level.
- Updated OpenSSH to version 9.8p1 to increase overall cybersecurity level.
- Addressed a vulnerability allowing DHCPv6 lease injection through unvalidated input parameters.
- Removed example private keys, previously intended for demonstration purposes only, to address security scanner findings.
- Addressed CVE-2023-52160 in wpa-suplicant to increase overall cybersecurity level.
- Addressed CVE-2024-0067, CVE-2024-6173, CVE-2024-6509. For more information, please visit the [Axis vulnerability management portal](#).
- Addressed CVE-2024-7784. Please note that downgrading the product to an older AXIS OS version is not possible. For more information, please visit the [Axis vulnerability management portal](#).
Applies to: All products base on *AXIS ARTPEC-8* on page 70, *I.MX 6SX* on page 71, *I.MX GULL* on page 72, *I.MX 8M-Mini* on page 72, *I.MX 8M-NANO* on page 72 and *I.MX 8QP/M* on page 72

Corrections

- Corrected an issue causing stream crashes via CGI input with invalid float values.
Applies to: AXIS Q3515-LV/-LVE, AXIS Q3517-LV/-LVE/-SLVE and AXIS Q3527-LVE
- Corrected an issue that was preventing images from being successfully sent via SFTP.
Applies to: AXIS Q6075-E and AXIS Q6135-LE
- Corrected an issue in the Event system where a faulty event topic filter could cause log messages to flood as well as prevent RTSP metadata streams from opening correctly.
- Corrected an issue with malformed XML data in the metadata stream.

AXIS OS 10.12.240

Release date: 2024-06-17

Cybersecurity updates

- Updated Apache to version 2.4.59 to increase overall cybersecurity level.

Corrections

- Corrected an issue where SSH users who used ssh-copy-id to install their SSH key as authorized on the device would unintentionally still have SSH access after a factory default with keeping IP settings.
- Corrected memory problems for products utilizing AXIS O3C Dispatcher service.
- Corrected an issue where invalid data could crash the Remote Syslog cgi.

AXIS OS release notes

LTS 2022 - 10.12

AXIS OS 10.12.236

Release date: 2024-05-27

Cybersecurity updates

- Addressed CVE-2024-0066. For more information, please visit the *Axis vulnerability management portal*.
- Updated *cURL* to version 8.7.1 to increase overall cybersecurity level.

Corrections

- Corrected an issue where mounting network share with 'space' character in the name was not working correctly.
- The parameter RemoteService.ProxyPassword that controls the proxy password has been masked and made unreadable for security reasons.
- Improved stability of the WSDD (Web Services Dynamic Discovery) by addressing potential unexpected crashes.
- Added DNS cache for O3C client to reduce the DNS lookup.
- Corrected an issue causing gradual increase in Snapshot CGI response time.
- Corrected an issue where # in network sharing passwords was not supported.
- Addressed unintended presence of Electronic Image Stabilization (EIS) settings in the web interface.
Applies to: AXIS Q1659
- Corrected an issue where IR light setting was not preserved after camera upgrades.
Applies to: AXIS M3057-PLVE, AXIS M3058-PLVE, AXIS P1445-LE, AXIS P1445-LE-3, AXIS P1447-LE, AXIS P1448-LE, AXIS P3227-LV, AXIS P3227-LVE, AXIS P3228-LV, AXIS P3228-LVE, AXIS P3245-LV, AXIS P3245-LVE, AXIS P3717-PL, AXIS P3719-PL, AXIS Q1700-LE, AXIS Q1785-LE, AXIS Q1786-LE, AXIS Q3515-LV, AXIS Q3515-LVE, AXIS Q3517-LV, AXIS Q3517-LVE, AXIS Q3517-SLVE, AXIS Q3518-LVE, AXIS Q3527-LVE, and AXIS Q6215-LE

AXIS OS 10.12.228

Release date: 2024-03-12

Cybersecurity updates

- Addressed CVE-2024-0055. For more information, please visit the *Axis vulnerability management portal*.
- Updated OpenSSL to version 1.1.1x to increase overall cybersecurity level.
- Updated *cURL* to version 8.6.0 to increase overall cybersecurity level.

Corrections

- Updated mDNS Responder Daemon (mDNSResponder) to version 2200.60.25.0.4, enhancing overall system stability.
- Updated time zone database version to 2024a.
- Corrected an issue where the camera did not return to the start position after being physically forced to pan.
- Extended the number of preset positions for the built-in Pelco driver from 32 to 100. Additionally, introduced a new config option in plain configuration (UserAdv parameter).

AXIS OS 10.12.221

Release date: 2024-01-29

Cybersecurity updates

AXIS OS release notes

LTS 2022 - 10.12

- Addressed CVE-2023-5800. For more information, please visit the *Axis vulnerability management portal*.
- Updated *cURL* to version 8.5.0 to increase overall cybersecurity level.
- Updated *Apache* to version 2.4.58 to increase the overall cybersecurity level.

Corrections

- Corrected an issue where it was not possible to add license if the ACAP uses semantic versioning.
- Corrected an issue causing slight waves/vibrations in the image.
Applies to: AXIS Q6225-LE
- Addressed various stability issues in the SIP daemon.
Applies to: AXIS A8207-VE, AXIS A8207-VE Mk II and AXIS I8016-LVE

AXIS OS 10.12.213

Release date: 2023-11-09

Cybersecurity updates

- Addressed CVE-2023-21418. For more information, please visit the *Axis vulnerability management portal*.
- Addressed CVE-2023-4911. For more information, please visit the *Axis vulnerability management portal*.
- Addressed CVE-2023-5553. Note that downgrading the product to an older LTS 2022 version is not possible. For more information, please visit the *Axis vulnerability management portal*.
Applies to: All products based on *AXIS ARTPEC-8* on page 70.
- Updated *cURL* to version 8.4.0 to increase overall cybersecurity level.

Corrections

- Corrected an issue preventing I/O notifications to be received from AXIS Companion mobile app.
- Corrected a Pan Tilt Zoom issue using Coaxitron driver.
Applies to: AXIS P7304 and AXIS P7316

AXIS OS 10.12.208

Release date: 2023-10-11

Cybersecurity updates

- Updated *cURL* to version 8.3.0 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1w to increase the overall cybersecurity level.
- Addressed CVE-2023-21414. Note that downgrading the product to an older LTS 2022 version is not possible except for Q3527-LVE that has support for 9.80 LTS. For more information, please visit the *Axis vulnerability management portal*.
Applies to: AXIS A8207-VE Mk II, AXIS Q3527-LVE and all products based on *AXIS ARTPEC-8* on page 70
- Addressed CVE-2023-21415. For more information, please visit the *Axis vulnerability management portal*.
- Addressed CVE-2023-21417. For more information, please visit the *Axis vulnerability management portal*.

Corrections

- Corrected an issue where the Web interface was unintentionally modifying the timezone upon loading, even if the device had been previously configured outside of the Web interface.

AXIS OS release notes

LTS 2022 - 10.12

- Corrected an issue where focus and zoom option was not available in the web interface.
Applies to: AXIS P3245-LV/-LVE
- Radar track IDs now persist across reboots, preventing collisions with previous boots. Increased the maximum track ID limit significantly to prevent track ID repetition from prolonged radar detector usage.
Applies to: AXIS D2050-VE
- Corrected an issue that caused slow-motion pattern playback when starting two light profiles simultaneously.
Applies to: AXIS D4100-E

AXIS OS 10.12.199

Release date: 2023-08-21

Features

- Added support for AXIS T6101/T6112 Mk II with the same audio and I/O functionality as when combined with AXIS T6101/T6112.
Applies to: AXIS M3115-LVE, AXIS M3116-LVE, AXIS M3064-V, AXIS M3065-V, AXIS M3066-V and AXIS M3075-V

Cybersecurity updates

- Updated *cURL* to version 8.2.0 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1v to increase the overall cybersecurity level.

Corrections

- Corrected CVE-2023-21413. For more information, please visit the *Axis vulnerability management portal*.
- Added the possibility to Netd Service to preserve the static resolver configuration even after a soft restore, safeguarding static DNS/Search domain settings.
- Updated the mDNS Responder Daemon (mDNSResponder) to version 1790.80.10 to improve system stability.
- Corrected an issue with incorrect trigger of I/O ports, that occurs at upgrade if an AXIS T6101 or AXIS T6112 is connected to the device.
Applies to: All products with support for *AXIS T6101 and AXIS T6112*
- Corrected microphone power type when the product is used in combination with AXIS T6101 audio module.
Applies to: AXIS P3255-LVE
- Improved stability by addressing a potential memory leak in the remote camera control service.
Applies to: AXIS P3818-PVE, AXIS Q3819-PVE, AXIS Q6010-E and AXIS Q6100-E
- Corrected an issue where manual focus was not working correctly via ONVIF command, if using third-party driver.
Applies to: AXIS Q1656 and AXIS Q1656-B
- Corrected an issue with Orientation Aid ACAP to be able to move the compass bar correctly via ONVIF commands.
Applies to: AXIS Q6135-LE and AXIS Q6315-LE
- Corrected an issue where wiper was not possible to run through ONVIF command.
Applies to: AXIS Q8752-E

AXIS OS 10.12.197

Release date: 2023-08-04

Corrections

AXIS OS release notes

LTS 2022 - 10.12

- Corrected an issue that could bring the camera in an out of focus state. To activate the correction on affected units, an additional restart is required after the upgrade.
Applies to: AXIS Q3536-LVE and AXIS Q3538-LVE

AXIS OS 10.12.193

Release date: 2023-07-20

Features

- Improved SNMP Monitoring by adding support for the ipAddressTable OID.
- Updated AXIS License Plate Verifier to version 2.8.4.
Applies to: AXIS P3245-LVE-3, AXIS P1455-LE-3 and AXIS P1445-LE-3
 - Corrected CVE-2023-21407, CVE-2023-21408, CVE-2023-21409, CVE-2023-21410, CVE-2023-21411, CVE-2023-21412. For more information, please visit the *Axis vulnerability management portal*.
 - Added extra polygons to the Area of Interest for a more flexible coverage of the area.
 - Added the possibility for 2N integration to select the type of event by direction, any, in or out which it can be send to 2N IP device.
 - Added the possibility to set image parameters according to the manual for none AXIS License Plate Verifier kit cameras.
 - Added the possibility to send two images with Push Event, one image will be the license plate crop and the other image will be the same frame as used to be saved with the event under **Settings > Image > Save Full Frame**.
 - Added a new VAPIX event ALPV.Update. This event will be triggered together with metadata for every updated event.

Corrections

- Corrected the focal length limits when using a CS-mount lens with DC-iris.
Applies to: AXIS Q1647, AXIS Q1647-LE, AXIS Q1645, AXIS Q1645-LE and ExCam XF Q1645

AXIS OS 10.12.182

Release date: 2023-06-19

Features

- Added support for more than 7 identical streams. The maximum identical streams is equal to the MaxViewers parameter value.
- Enhanced SNMP Monitoring: We resolved a missing TCP sub-tree OID issue in NET-SNMP by adding support for the SNMP TCP MIB object .1.3.6.1.2.1.6. This improvement ensures a smooth and uninterrupted SNMP monitoring experience.
- Improved UPnP compliance by updating the SSDP (Simple Service Discovery Protocol) SERVER header in the standard "OS/version UPnP/1.0 product/version" format and USN (Unique Service Name) field with a UUID in the standard format. This enhances consistency and compatibility.
- Added proxy configuration support to the Owner Authentication Key (OAK) cgi using group root.RemoteService, simplifying setup on networks requiring proxy servers for Internet access and improving the authentication process.
- Updated time zone database version to 2023c.
- Added support for Network speaker pairing (Edge-to-edge technology), enabling synchronization of audio playback.
Applies to: AXIS Q6225-LE

Cybersecurity updates

AXIS OS release notes

LTS 2022 - 10.12

- Updated *Apache* to version 2.4.57 to increase the overall cybersecurity level.
- Updated *cURL* to version 8.1.0 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1u to increase the overall cybersecurity level.

Corrections

- Corrected an issue with OAK (owner authentication key). It now only produces warnings in the log instead of errors if the device is not able to connect to the internet.
- Corrected an issue where sequence ID modifiers #s and #S were not displaying the expected values.
- Improved performance for video streams when using same configurations.
- Corrected an issue in VDO Api, related to orientation when rotation has been changed.
- Corrected an issue where ONVIF recordings resumed after factory default.
- Updated libupnp to version 1.14.16, fixing a memory leak and improving overall stability.
- Corrected a memory leak in the video service, resulting in improved stability for streaming videos.
- Improved the syslog system stability by fixing a memory leak.
- Corrected an issue where artifacts could appear in the image when WDR is enabled and panning and tilting between different lighting conditions.
Applies to: AXIS Q6315-LE
- Improved system reliability. To ensure uninterrupted streaming, we have optimized the response time of requests and increased the MCU's IWDG timeout to prevent restarts caused by unreliable communication.
Applies to: AXIS M3205-LVE and AXIS M3206-LVE
- Corrected a focus setting issue that prevented users from accessing certain functionalities, such as open iris to set focus, autofocus, and resetting functions, when using a DC iris with the camera.
Applies to: AXIS P1375, AXIS P1377, AXIS P1378, AXIS Q1645, AXIS Q1645-LE, ExCam XF P1377, ExCam XF Q1645 and F101-A XF P1377
- Corrected CVE-2023-21405. For more information, please visit the [Axis vulnerability management portal](#).
Applies to: AXIS A8207-VE and AXIS A8207-VE Mk II
- Corrected an auto focus issue causing inaccurate coordinates on set focus window.
Applies to: AXIS M5074, AXIS M5075/-G, AXIS P3245-LV/-LVE/-V/-VE, AXIS P3245-LVE-3, AXIS P3247-LV/-LVE, AXIS P3248-LV/-LVE, AXIS P3255-LVE, AXIS P5654-E, AXIS P5655-E, AXIS Q1700-LE, AXIS Q1715, AXIS Q1785/-LE, AXIS Q1786-LE, AXIS Q1798-LE, AXIS Q3515-LV/-LVE, AXIS Q3517-LV/-LVE/-SLVE, AXIS Q3518-LVE, AXIS Q3527-LVE, AXIS Q6135-LE, AXIS Q8752-E, ExCam XF Q1785, F101-A XF Q1785, XF40-Q1785 and XP40-Q1785

AXIS OS 10.12.166

Release date: 2023-04-17

Features

- Updated *cURL* to version 8.0.1 to increase overall cybersecurity level.
- Updated *Apache* to version 2.4.56 to increase the overall cybersecurity level.
- Improved the manager client certificates and added support for installing multiple trust certificates and requesting/installing a second client certificate.
- Products with Hardware ID 971 only supports active track 11.4.52 and later, as well as LTS 2022 version 10.12.166 and later. The hardware ID can be found in **Plain config > Properties > System > Hardware ID**.
Applies to: AXIS M5075-G

AXIS OS release notes

LTS 2022 - 10.12

- Added detailed health information from SD cards to the server report, including power cycle statistics and flash wear rates. This improvement allows for a better monitoring of the system's health that can prevent downtime or data loss.

Corrections

- Corrected an issue in mDNS discovery that caused the reported port to be incorrect due to the network byte order not being properly handled. The correct port is now being printed.
- Improved network interface handling to prevent memory leaks and crashes by automatically restarting the web service discovery client daemon (wsdd) when network changes occur, ensuring uninterrupted service.
- Added fallback mode for network hardware that is limited to 10BASE-T and 100BASE-TX transmission.
Applies to: All *AXIS ARTPEC-7 on page 70* products
- Corrected low-light image quality issues.
Applies to: AXIS Q1700-LE, AXIS Q1785-LE, AXIS Q1786-LE, ExCam XF Q1785, F101-A XF Q1785, XF40-Q1785 and XP40-Q1785
- Corrected a focus setting issue that prevented users from accessing certain functionalities, such as open iris to set focus, autofocus, and resetting functions, when using a DC iris with the camera.
Applies to: AXIS P1375, AXIS P1377, AXIS P1378, AXIS Q1645, AXIS Q1645-LE, ExCam XF P1377, ExCam XF Q1645 and F101-A XF P1377
- Corrected an issue where live view via HDMI could be accessed without setting a password. To enhance security, it is now mandatory to set up a password before being able to access live feed on a TV or monitor via HDMI.
Applies to: AXIS V5925

AXIS OS 10.12.153

Release date: 2023-02-20

Features

- Updated *Apache* to version 2.4.55 to increase the overall cybersecurity level.
- Updated *OpenSSL* to version 1.1.1t to increase overall cybersecurity level.
- Updated *cURL* to version 7.87.0 to increase overall cybersecurity level.
- The Security level for 'AutoRepair', 'FileSystem' and 'RequiredFileSystem' parameters has been lowered.

Corrections

- Disabled secure redirects from other network hosts `net.ipv4.conf.all.secure_redirects` & `net.ipv4.conf.default.secure_redirects` to increase overall minimum cybersecurity level.
- Corrected an issue where audio was not working correctly in the Companion and AXIS Camera Station iOS apps. Correction was also needed in the iOS apps, therefore requires iOS Companion version 7.11.14 or later, and iOS AXIS Camera Station 4.6.12 or later.
Applies to: All products with audio out.
- Corrected an issue where it was not possible to install an application using `manifest.json` if an older application using `package.conf` was already installed.
- Corrected an issue affecting some O3C clients, that caused internal authentication requests to fail after a few days of uptime.
- Corrected an issue where it was not possible to save images using compression set to 10 or below to a network share when SMB 3.1.1 was used.
- Updated time zone database version to 2022g.
- Improved stability of syslog system by addressing a potential memory leak.

AXIS OS release notes

LTS 2022 - 10.12

- Improved system stability during roll-back.
- Improved stability of the multicast DNS (mDNS) services.
- Corrected ONVIF reply for MaximumRetentionTime
- Corrected an issue with simultaneous PTZ Onvif requests.
Applies to: All products with PTZ support.
- Corrected an issue where the IR led was turned off during the download of the server report.
Applies to: AXIS Q6135-LE
- Corrected an IR-LED issue causing temperatures and image degradation in high ambient temperatures above 35°C, when IR light is activated at full power.
Applies to: AXIS Q6318-LE
- Improved QuickZoom functionality to switch only during longer continuous zoom movements, ensuring smoother zoom experience with the mouse scroll wheel.
Applies to: AXIS Q6135-LE and AXIS Q6318-LE
- Corrected an issue with focus being lost over time.
Applies to: AXIS M3215-LVE, AXIS M3216-LVE, AXIS P1467-LE, AXIS P1468-LE, AXIS P3265-V/-LV/-LVE, AXIS P3267-LV/-LVE, AXIS P3268-LV/-LVE, AXIS P4705-PLVE, AXIS P4707-PLVE, AXIS Q1656/-B/-BE/-BLE/-LE, AXIS Q3536-LVE and AXIS Q3538-LVE
- Corrected an issue that caused pre-defined controls buttons to appear in the wrong place on the onscreen control panel.
Applies to: All products with onscreen control support.
- Corrected an issue where autofocus needed to be re-applied when the ambient temperature changed.
Applies to: AXIS P3265-V/-LV/-LVE, AXIS P3267-LV/-LVE, AXIS P3268-LV/-LVE, AXIS Q3536-LVE and AXIS Q3538-LVE

AXIS OS 10.12.145

Release date: 2023-02-02

- Improved day/night switching stability. After upgrade a power off/on of the camera is required.
Applies to: AXIS M3205-LVE and AXIS M3206-LVE

AXIS OS 10.12.135

Release date: 2022-12-08

Features

- Products with Hardware 9A0.1, 9A0.2 and 9A0.3 only supports LTS 2022 version 10.12.135 and later. Products with hardware ID 796, 7C3.1 and 7C3.2 support all AXIS OS versions. The hardware ID can be found in **Plain config > Properties > System > Hardware ID**.
Applies to: AXIS P1375-E, AXIS P1377-LE and AXIS P1378-LE

AXIS OS 10.12.130

Release date: 2022-12-05

Features

- Updated cURL to version 7.86.0 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1s to increase the overall cybersecurity level.

Corrections

AXIS OS release notes

LTS 2022 - 10.12

- Corrected an issue where the metadata producer was disabled after upgrade when upgrading from AXIS OS 10.6 or 10.7 to 10.12.
- Corrected an issue that caused the wrong file size to be reported for recordings larger than 50MB when using FTP.
- Corrected an issue where ACAP application parameters were reset after AXIS OS upgrade.
- Corrected an issue to make it possible to create certificates with Common Name up to 64 characters.
- The vdo_stream_get_info capture API now returns the resulting channel.
- Corrected an issue with video streaming when using dynamic fps in Zipstream.
Applies to: AXIS M3064-V, AXIS M3065-V, AXIS M3066-V, AXIS M3075-V, AXIS M3205-LV, AXIS M3206-LVE and AXIS Q9216-SLV
- Corrected an issue with broken image that could happen after start up.
Applies to: AXIS M2035-LE and AXIS M2036-LE
- Corrected an issue where the Iris value was not shown when using Auto Iris.
Applies to: AXIS V5925
- Corrected an issue which could cause audio clips not to play to completion.
Applies to: AXIS Q6215-LE
- Corrected an issue that caused privacy masks to shift when using pan and tilt.
Applies to: AXIS P1375
- Corrected an issue with loss of focus in wide infinity, that could occur after upgrading from 10.9.
Applies to: AXIS P1448-LE
- Corrected an issue where the camera was not getting enough power when using certain POE switches.
Applies to: AXIS Q6075 and ExCam XPT Q6075

AXIS OS 10.12.122

Release date: 2022-11-03

Corrections

- Corrected an issue where upgrade from 10.9.4 to 10.12 was not possible.
Applies to: AXIS P3265-LVE 22mm, AXIS 3267-LV/-LVE and AXIS P3268-LV/-LVE.

AXIS OS 10.12.114

Release date: 2022-10-06

Features

- Updated cURL to version 7.85.0 to increase overall cybersecurity level.
- Added support for RFC8200 IPv6.

Corrections

- Corrected an issue to make it possible to create certificates with Common Name up to 64 characters.
- Corrected an issue that caused no video stream after upgrading from 9.80 LTS.
Applies to: AXIS Q3527-LVE
- Improved the IR cut filter switching.
Applies to: All products with IR cut filter.

AXIS OS release notes

LTS 2022 - 10.12

- Corrected an issue where image processing could fail to work properly after 248 days of uptime.
Applies to: AXIS Q1645/-LE and ExCam XF Q1645
- Corrected an issue where the new web interface was not showing streaming settings.
Applies to: AXIS M2035-LE, AXIS M2036-LE, AXIS M3057-PLVE, AXIS M3058-PLVE, AXIS M3064-V, AXIS M3065-V, AXIS M3066-V, AXIS M3067-P, AXIS M3068-P, M3075-V, AXIS M3085-V, AXIS M3086-V, AXIS M3115-LVE, AXIS M3116-LVE, AXIS M3205-LVE, AXIS M3206-LVE, AXIS M4216-V/-LV, AXIS P3719-PLV

Limitations

- When upgrading AXIS OS from versions below 10.10.69 and metadata producers are used, the metadata producers must be enabled manually via **System > Analytics metadata**.

AXIS OS 10.12.104

Release date: 2022-09-13

Features

- Updated cURL to version 7.84.0 to increase overall cybersecurity level.
- Added setting in Action rules for how many times an audio clip should be repeated when played.
- Products with hardware ID 998 only support active track 10.12.104 and later, as well as LTS 9.80.3.14 and later. Products with hardware ID 7CA support all AXIS OS versions.
The hardware ID can be found in **Plain config > Properties > System > HardwareID**.
Applies to: AXIS P3925-R
- Products with hardware ID 999 only support active track 10.12.104 and later, as well as LTS 9.80.3.14 and later. Products with hardware ID 7CC support all AXIS OS versions.
The hardware ID can be found in **Plain config > Properties > System > HardwareID**.
Applies to: AXIS P3925-LRE
- Products with hardware ID 99A.1 and 99A.2 only support active track 10.12.104 and later, as well as LTS 9.80.3.14 and later. Products with hardware ID 91A only support active track 10.10.69 and later, as well as LTS 2020 version 9.80.3.8. Products with hardware ID 7CC support all AXIS OS versions.
The hardware ID can be found in **Plain config > Properties > System > HardwareID**.
Applies to: AXIS P3935-LR
- Added the possibility to detect tailgating, if more than one person passes under a counter during a predefined time interval.
Applies to: AXIS P8815-2.

Corrections

- Improved system stability.
- Corrected an issue that prevented the use of audio clips in action rules.
Applies to: AXIS A8207-VE and AXIS A8207-VE Mk II
- Improved IR LED dimming algorithm.
Applies to: AXIS Q3536-LVE and AXIS Q3538-LVE
- Corrected an issue to make WDR enabled as default.
Applies to: AXIS M1135/-E Mk II and AXIS M1137/-E Mk II
- Corrected an issue where focus is lost over time.
Applies to: AXIS P3727-PLV
- Corrected an issue in swaying object filters that made video stream flicker and metadata stream fail. Corrected an issue where ignore swaying objects was disabled after restart.
Improved tracking at large angles.
Improved general radar performance and stability.
Applies to: AXIS D2110-VE

AXIS OS release notes

LTS 2022 - 10.12

AXIS OS 10 Archived Release Notes

If you're looking for release notes from earlier versions of AXIS OS 10 active track, you can find them *here*.

AXIS OS release notes

LTS 2020 - 9.80

LTS 2020 - 9.80

Support phase: 2020 – 2025-12-31

Go to *Products on LTS 2020 - 9.80 on page 75* for a list of products on this track.

AXIS OS 9.80.85

Release date: 2024-11-19

Cybersecurity updates

- Addressed *CVE-2024-8772*. This CVE will be externally disclosed on 26 November 2024 as part of our ongoing commitment to cybersecurity. Detailed information will follow then. For more information, please visit the *Axis vulnerability management portal*.
- Updated *ncurses* (*libncursesw5* and *libtinfo5*), addressing *CVE-2023-50495*, *CVE-2023-45918* and *CVE-2023-29491*.
- Updated *expat* (*libexpat1*) version 2.6.2, addressing *CVE-2024-45492*, *CVE-2024-45490* and *CVE-2024-45491*.
- Updated *libxml2*, addressing *CVE-2023-45322* and *CVE-2024-25062*.
- Updated *busybox*, addressing *CVE-2022-48174*.
- Updated *zlib* (*libz1*), addressing *CVE-2023-45853*.
- Updated *util-linux*, addressing *CVE-2024-28085*.
- Updated *syslog-ng*, addressing *CVE-2022-38725*.
- Updated *DBus* to version 1.12.28, addressing *CVE-2023-34969*.
- Updated *cURL* to version 8.10.1 to increase overall cybersecurity level.
- Updated *OpenSSL* to version 1.1.1za to increase overall cybersecurity level.
- Updated *wpa-supPLICANT* to version 2.11 to increase overall cybersecurity level.
- Improved stability and reliability of the certificate management service.

Corrections

- Corrected an issue with Malformed XML data in the metadata stream.
- Corrected an issue limiting audio sampling rate selection to 8kHz in ONVIF media profile, now supporting rates of 8/16/32/44.1/48 kHz.
Applies to: AXIS P1364/-E

AXIS OS 9.80.78

Release date: 2024-08-26

Cybersecurity updates

- Updated *Apache* to version 2.4.62 to increase overall cybersecurity level.
- Updated *cURL* to version 8.9.0 to increase overall cybersecurity level.
- Updated *OpenSSL* to version 1.1.1y to increase overall cybersecurity level.
- Updated *OpenSSH* to version 9.8p1 to increase overall cybersecurity level.

AXIS OS release notes

LTS 2020 - 9.80

- Updated libssh2 to version 1.11.0 to increase overall cybersecurity level.
- Addressed CVE-2023-52160 in wpa-suplicant to increase overall cybersecurity level.
- Addressed CVE-2024-0067, CVE-2024-6173, CVE-2024-6509. For more information, please visit the [Axis vulnerability management portal](#).

Corrections

- Added DNS cache for O3C client to reduce the DNS lookup.
- Corrected an issue causing stream crashes via CGI input with invalid float values.
Applies to: AXIS Q3515-LV/-LVE, AXIS Q3517-LV/-LVE/-SLVE and AXIS Q3527-LVE

AXIS OS 9.80.72

Release date: 2024-06-17

Corrections

- Corrected an issue where SSH users who used ssh-copy-id to install their SSH key as authorized on the device would unintentionally still have SSH access after a factory default with keeping IP settings.
- Corrected memory problems for products utilizing AXIS O3C Dispatcher service.

AXIS OS 9.80.69

Release date: 2024-05-28

Cybersecurity updates

- Addressed CVE-2024-0066. For more information, please visit the [Axis vulnerability management portal](#).
- The parameter RemoteService.ProxyPassword that controls the proxy password has been masked and made unreadable for security reasons.

AXIS OS 9.80.66

Release date: 2024-05-06

Cybersecurity updates

- Addressed CVE-2024-0054. For more information, please visit the [Axis vulnerability management portal](#).
- Updated OpenSSH to version 9.6p1 to increase overall cybersecurity level.
- Updated *cURL* to version 8.7.1 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1x to increase overall cybersecurity level.
- Removed legacy overlay image CGIs i.e. create_overlay, overlay_set, overlay_del, overlay_image_formats, overlay_list.

Corrections

- Updated time zone database version to 2024a.

AXIS OS 9.80.55

Release date: 2024-02-05

Cybersecurity updates

AXIS OS release notes

LTS 2020 - 9.80

- Updated *cURL* to version 8.5.0 to increase overall cybersecurity level.
- Updated *Apache* to version 2.4.58 to increase the overall cybersecurity level.
- Addressed CVE-2023-5800. For more information, please visit the *Axis vulnerability management portal*.

AXIS OS 9.80.49

Release date: 2023-11-01

Cybersecurity updates

- Updated *cURL* to version 8.4.0 to increase overall cybersecurity level.

Corrections

- Corrected CVE-2023-21417 and CVE-2023-21418.
For more information, please visit the *Axis vulnerability management portal*.
- Corrected critical Kernel crashes for improved system stability.
Applies to: AXIS M2026-LE Mk II, AXIS M3015, AXIS M3016, AXIS M3106-L/-LVE Mk II, AXIS Q6125-LE and ExCam XF M3016

AXIS OS 9.80.47

Release date: 2023-10-13

Cybersecurity updates

- Updated *cURL* to version 8.3.0 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1w to increase the overall cybersecurity level.

Corrections

- Corrected CVE-2023-21415. For more information, please visit the *Axis vulnerability management portal*.
- Improved stability of the WSDD (Web Services Dynamic Discovery) by addressing a potential memory leak and crashes associated with network interface rebinding on network changes.

AXIS OS 9.80.42

Release date: 2023-08-22

Cybersecurity updates

- Updated *cURL* to version 8.2.0 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1v to increase the overall cybersecurity level.

Corrections

- Added proxy configuration support to the Owner Authentication Key (OAK) cgi using group root.RemoteService, simplifying setup on networks requiring proxy servers for Internet access and improving the authentication process.
- Added the possibility to Netd Service to preserve the static resolver configuration even after a soft restore, safeguarding static DNS/Search domain settings.
- Improved stability of UPnP (Universal Plug and Play) service.
- Updated the mDNS Responder Daemon (mDNSResponder) to version 1790.80.10 to improve system stability.

AXIS OS release notes

LTS 2020 - 9.80

- Improved stability of the syslog system by addressing a potential memory leak.

AXIS OS 9.80.34

Release date: 2023-06-26

Features

- Improved UPnP compliance by updating the SSDP (Simple Service Discovery Protocol) SERVER header in the standard "OS/version UPnP/1.0 product/version" format and USN (Unique Service Name) field with a UUID in the standard format. This enhances consistency and compatibility.
- Updated time zone database version to 2023c.

Cybersecurity updates

- Updated *Apache* to version 2.4.57 to increase the overall cybersecurity level.
- Updated *cURL* to version 8.1.0 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1u to increase the overall cybersecurity level.
- Updated libupnp to version 1.14.16, solving a memory leak and improving overall stability.

Corrections

- Corrected an issue with OAK (owner authentication key). It now only produces warnings in the log instead of errors if the device is not able to connect to the internet.
- Improved the handling of SD card timeouts, ensuring that processes no longer hang for prolonged periods when a faulty SD card is detected.
Applies to: All products with SD card support

AXIS OS 9.80.28

Release date: 2023-04-24

Features

- Updated *Apache* to version 2.4.56 to increase the overall cybersecurity level.
- Updated *cURL* to version 8.0.1 to increase overall cybersecurity level.
- Improved the manager client certificates and added support for installing multiple trust certificates and requesting/installing a second client certificate.
- Products with Hardware 9A0.1, 9A0.2 and 9A0.3 only support active track version 11.2.53 and later, LTS 2022 version 10.12.135 and later, as well as LTS 2020 version 9.80.28 and later.
Products with hardware ID 796, 7C3.1 and 7C3.2 support all AXIS OS versions.
The hardware ID can be found in **Plain config > Properties > System > Hardware ID**.
For more information, read the related *FAQ*.
Applies to: AXIS P1375-E, AXIS P1377-LE and AXIS P1378-LE

Corrections

- Added detailed health information from SD cards to the server report, including power cycle statistics and flash wear rates. This improvement allows for a better monitoring of the system's health that can prevent downtime or data loss.
- Corrected low-light image quality issues.
Applies to: AXIS Q1700-LE, AXIS Q1785-LE, AXIS Q1786-LE, ExCam XF Q1785, F101-A XF Q1785, XF40-Q1785 and XP40-Q1785

AXIS OS release notes

LTS 2020 - 9.80

- Added fallback mode for network hardware that is limited to 10BASE-T and 100BASE-TX transmission.
Applies to: All *AXIS ARTPEC-7 on page 70* products
- Corrected an issue where the "Turn on/off camera heater" option was appearing in the on-screen control dropdown, even though the product does not have a heater.
Applies to: AXIS P1375-E, AXIS P1377-LE and AXIS P1378-LE

AXIS OS 9.80.22

Release date: 2023-03-07

Features

- Updated *Apache to version 2.4.55* to increase the overall cybersecurity level.
- Updated *cURL to version 7.88.1* to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1t to increase overall cybersecurity level.
- Updated time zone database version to 2022g.
- Receiving ICMP secure redirects from other network hosts are now disabled to increase overall minimum cyber security level.

Corrections

- Corrected an issue affecting some O3C clients, that caused internal authentication requests to fail after a few days of uptime.
- Improved stability of syslog system by addressing a potential memory leak.
- Improved stability of the PTZ VAPIX parser.
Applies to: AXIS M3115-LVE and AXIS M3116-LVE
- Corrected an issue that caused privacy masks to remain the same size during zooming after a restart. The privacy masks will now adjust their size in relation to the rest of the image during zooming, which is the expected behavior.
Applies to: AXIS Q1700-LE
- Corrected an issue with simultaneous PTZ ONVIF requests.
Applies to: AXIS P5654-E, AXIS P5655-E, AXIS Q1700-LE, AXIS Q1785-LE, AXIS Q1786-LE, AXIS Q6010-E, AXIS Q6074/-E, AXIS Q6075/-E/-S, AXIS Q6125-LE, AXIS Q6215-LE, AXIS Q8641-E, AXIS Q8642-E, D201-S XPT Q6075, ExCam XF Q1785, ExCam XPT Q6075, F101-A XF Q1785, XF40-Q1785 and XP40-Q1785

AXIS OS 9.80.12

Release date: 2022-12-15

Corrections

General improvements.

AXIS OS 9.80.10

Release date: 2022-11-29

Features

- New versioning on AXIS OS LTS 2020. For more information, see *AXIS OS versioning*.
- Updated cURL to version 7.86.0 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1s to increase the overall cybersecurity level.

AXIS OS release notes

LTS 2020 - 9.80

- Updated time zone database version to 2022d. This version has some common time zones, such as Europe/Amsterdam, Europe/Copenhagen, Europe/Oslo, Europe/Stockholm, and more, removed from the recommended list of time zones.
- Products with Hardware ID 9A1 only supports LTS 2020 version 9.80.10 and later.
Products with hardware ID 756 supports all AXIS OS versions.
The hardware ID can be found in **Plain config > Properties > System > Hardware ID**.
Applies to: AXIS Q6215-LE
- Products with hardware ID 97A.1 and 97A.2 only support AXIS OS 10.12.73 and later, as well as LTS 2020 version 9.80.10 and later.
Products with hardware ID 7CF.1 and 7CF.2 support all AXIS OS versions.
The hardware ID can be found in **Plain config > Properties > System > HardwareID**.
Applies to: AXIS Q6010-E

Corrections

- Corrected an issue that caused a wrong file size to be reported for recordings larger than 50MB when using FTP.
- Corrected an issue that prevented the possibility to change manual IR Illumination angle from the web interface.
Applies to: AXIS Q1785-LE, AXIS Q1786-LE and AXIS Q1798-LE
- Corrected an issue that on rare occasions caused the image to show horizontal lines or an over-saturated image.
Applies to: AXIS M3064-V, AXIS M3065-V, AXIS M3066-V, AXIS M3075-V, AXIS M3205-LVE, AXIS M3206-LVE and AXIS Q9216-SLV

AXIS OS 9.80.3.14

Release date: 2022-09-12

Features

- Updated cURL to version 7.84.0 to increase overall cybersecurity level.
- Products with hardware ID 998 only support active track 10.12.104 and later, as well as LTS 9.80.3.14 and later.
Products with hardware ID 7CA support all AXIS OS versions.
The hardware ID can be found in **Plain config > Properties > System > HardwareID**.
Applies to: AXIS P3925-R
- Products with hardware ID 999 only support active track 10.12.104 and later, as well as LTS 9.80.3.14 and later.
Products with hardware ID 7CC support all AXIS OS versions.
The hardware ID can be found in **Plain config > Properties > System > HardwareID**.
Applies to: AXIS P3925-LRE
- Products with hardware ID 99A.1 and 99A.2 only support active track 10.12.104 and later, as well as LTS 9.80.3.14 and later.
Products with hardware ID 91A only support active track 10.10.69 and later, as well as LTS 2020 version 9.80.3.8.
Products with hardware ID 7CC support all AXIS OS versions.
The hardware ID can be found in **Plain config > Properties > System > HardwareID**.
Applies to: AXIS P3935-LR

Corrections

- Corrected an issue that caused audio via external VMS to stop working.
- Improved focus behavior after an upgrade.
When upgrade is finished, perform also calibration **System > Maintenance > Optics > Calibrate** and autofocus **Image > Autofocus**.
Applies to: AXIS P3245-LV/-LVE, AXIS P3247-LV/-LVE and AXIS P3248-LV/-LVE.

AXIS OS 9.80.3.13

Release date: 2022-07-22

AXIS OS release notes

LTS 2020 - 9.80

Features

- Updated Apache web server to version 2.4.54 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1q to increase overall cybersecurity level.
- Updated cURL to version 7.83.1 to increase overall cybersecurity level.
- Products with hardware ID 991 and 992 only support active track 10.11.87 and later, as well as LTS track 9.80.3.13 and later.
Products with hardware ID 7BD and 7C0 support all AXIS OS versions.
The hardware ID can be found in **Plain config > Properties > System > HardwareID**.
Applies to: AXIS M3067-P and AXIS M3068-P
- Products with hardware ID 993.1, 993.2, 994.1 and 994.2 only support active track 10.11.89 and later, as well as LTS track 9.80.3.13 and later.
Products with hardware ID 985.1, 985.2, 986.1 and 986.2 only support active track 10.11.85 and later, as well as LTS track 9.80.3.13 and later.
Products with hardware ID 956.1, 956.2, 956.3 and 956.4 only support active track 10.8.3 and later, as well as LTS track 9.80.3.9 and later.
Products with hardware ID 91E.1, 91E.2, 91F.1 and 91F.2 only support active track 10.4.0 and later, as well as LTS track 9.80.3.1 and later.
Products with hardware ID 7BE.1, 7BE.2, 7BF.1 and 7BF.2 support all AXIS OS versions.
The hardware ID can be found in **Plain config > Properties > System > HardwareID**.
Applies to: AXIS P3247-LV/-LVE and AXIS P3248-LV/-LVE
- Products with hardware ID 990 only support active track 10.12.65 and later, as well as LTS track 9.80.3.13 and later.
Products with hardware ID 7AF support all AXIS OS versions.
The hardware ID can be found in **Plain config > Properties > System > HardwareID**.
Applies to: AXIS Q1798-LE
- Products with hardware ID 981 and 982 only support active track version 10.11.85 and later, as well as LTS track 9.80.3.13 and later.
Products with hardware ID 7BB and 7BC support all AXIS OS versions.
The hardware ID can be found in **Plain config > Properties > System > HardwareID**.
Applies to: AXIS M3115-LVE and AXIS M3116-LVE
- Products with hardware ID 98E.1, 98E.2, 98E.3, 98D.1, 98D.2 and 98D.3 only support active track 10.12.65 and later, as well as LTS track 9.80.3.13 and later.
Products with hardware ID 795, 796, 7C2.1, 7C2.2, 7C3.1 and 7C3.2 support all AXIS OS versions.
The hardware ID can be found in **Plain config > Properties > System > HardwareID**.
For more information, read the related [FAQ](#).
Applies to: AXIS P1375/-E, AXIS P1377/-LE, AXIS P1378/-LE, F101-A XF P1377 and ExCam XF P1377
- Products with hardware ID 983.1 and 983.2 only support AXIS OS 10.11.85 and later, as well as LTS track 9.80.3.13 and later.
Products with hardware ID 90F.1 and 90F.2 support AXIS OS versions from 10.3.01 and LTS versions from 9.80.3.1.
Products with hardware ID 79E.1 and 79E.2 support all AXIS OS versions.
The hardware ID can be found in **Plain config > Properties > System > HardwareID**.
Applies to: AXIS P3245-V/-VE
- Products with hardware ID 984.1 and 984.2 only support active track 10.11.85 and later, as well as LTS track 9.80.3.13 and later.
Products with hardware ID 910.1 and 910.2 only support active track 10.3.0.1 and later, as well as LTS track 9.80.3.1 and later.
Products with hardware ID 79F.1, 79F.2, 79F.3 and 79F.4 support all AXIS OS versions.
The hardware ID can be found in **Plain config > Properties > System > HardwareID**.
Applies to: AXIS P3245-LV/-LVE
- Products with hardware ID 987.1, 987.2, 988.1, 988.2, 989.1, 989.2, 98A.1, 98A.2, 98B.1 and 98B.2 only support active track 10.11.87 and later, as well as LTS track 9.80.3.13 and later.
Products with hardware ID 917.1, 917.2, 918.1, 918.2, 914.1, 914.2, 915.1, 915.2, 916.1 and 916.2 support AXIS OS version 10.6.5 and later, and as well as LTS track 9.80.3.4 and later.
Products with hardware ID 7D9.1, 7D9.2, 7DA.1, 7DA.2, 7B0, 7B1, 7FA.1 and 7FA.2 support all AXIS OS versions.

AXIS OS release notes

LTS 2020 - 9.80

The hardware ID can be found in **Plain config > Properties > System > HardwareID**.
Applies to: AXIS Q6074/-E, AXIS Q6075/-E, D201-S XPT Q6075 and ExCam XPT Q6075

Corrections

- ONVIF recordings are now continued automatically after disruptions.

AXIS OS 9.80.3.12

Release date: 2022-06-09

Features and corrections

- Updated OpenSSL to version 1.1.1o to increase the overall cybersecurity level.
- General improvements to the LTS 2020 platform.
- Corrected an issue that would cause the AXIS OS upgrade to fail on rare occasions.
- Corrected *CVE-2018-25032*.

AXIS OS 9.80.3.11

Release date: 2022-05-09 (to be rolled out within 3 weeks of release date)

Features

- Updated OpenSSL to version 1.1.1n to increase overall minimum cybersecurity level.
- Updated Apache to version 2.4.53 to increase overall cybersecurity level.
- Updated wpa-suplicant to version 2.10 to increase overall cybersecurity level.

Corrections

- General improvements to the LTS 2020 platform.
- Receiving ICMP redirects from other network hosts is now disabled to increase overall minimum cybersecurity level.
- Updated the certificate management API's to handle camera models that do not support Real-Time Streaming Protocol over SSL (RTSPS).
- Corrected *CVE-2021-29462*.
- Corrected *CVE-2021-33910*.
- Improved memory management in the network services daemon.
- On some units focus might drift over time. Lens control has been improved to reduce this type of issues. Calibrate and autofocus the camera after upgrade.
Applies to: AXIS P3245-V/-VE/-LV/-LVE

AXIS OS 9.80.3.10

Release date: 2022-03-16

Features

- Updated OpenSSL to version 1.1.1m to increase overall cybersecurity level.
- Updated Apache to version 2.4.52 to increase overall cybersecurity level.

AXIS OS release notes

LTS 2020 - 9.80

Corrections

- Improved HDMI video output.
Applies to: AXIS M3065-V, AXIS M3066-V and AXIS M3075-V
- Corrected an issue that caused the send images event to stop uploading towards an FTP server when the filename included a space (" ").
- Corrected *CVE-2020-13848*.
- Corrected an issue that prevented the Axis device to stream a 3rd unique video stream in rare conditions.
Applies to: AXIS Q6125-LE
- Improved handling of empty recordings.
- Support for a new audio codec - ADAU1361 - has been added.
Applies to: AXIS P3935-LR
- Corrected an issue that caused the IR-cut filter to get stuck halfway.
Applies to: AXIS P3925-R/-LRE and AXIS P3935-LR

AXIS OS 9.80.3.9

Release date: 2022-02-01

Only for AXIS P3245-LV/-LVE, AXIS P3247-LV/-LVE and AXIS P3248-LV/-LVE.

Features

- Updated Apache to version 2.4.52 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1m to increase the overall cybersecurity level.
- Products with hardware ID 956.x only support 10.8.3 and later, as well as 9.80.3.9 on LTS 2020. Products with hardware ID 91E.x and 91F.x support 10.4.0 and later, as well as LTS 2020 9.80.3.1 and later. Products with hardware ID 7BE.x and 7BF.x support all AXIS OS versions. The hardware ID can be found in **Plain config > Properties > System > HardwareID**.

Corrections

- Corrected an issue that caused the send images event to stop uploading towards an FTP server when the filename included a space (" ").
- Corrected *CVE-2020-13848*.

AXIS OS 9.80.3.8

Release date: 2021-12-20

Features

- Updated Apache to version 2.4.51 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1l to increase overall cybersecurity level.
- Updated cURL to version 7.79.1 to increase overall cybersecurity level.
- Support for a new audio codec - ADAU1361 - has been added. Products with hardware ID 91A will now support the new codec. The hardware ID can be found via **Plain config > Properties > System > HardwareID**
Applies to: AXIS P3935-LR

Corrections

AXIS OS release notes

LTS 2020 - 9.80

- General improvements to the LTS 2020 platform.
- Corrected an issue that caused active recordings to be restarted when adding a new recording rule.
- Improved system stability of the Network Services.
- The remote syslog configuration is now preserved during a AXIS OS update within the same track.
- Corrected an issue that caused overlay text flickers when used in conjunction with an event triggered by the recording ongoing condition.
- Adjusted the default tilt to range between 0 to -180 degrees.
Applies to: AXIS Q6074-E
- Improved response time of the I/O port monitoring cgi `/axis-cgi/io/input.cgi?monitor=1`.
Applies to: AXIS D2050-VE, AXIS FA54, AXIS P1364/-E, AXIS P1365/-E Mk II, AXIS P1367/-E, AXIS P1368-E, AXIS P5655-E, AXIS Q1615/-LE Mk II, AXIS Q1645/-LE, AXIS Q1647/-LE, AXIS Q1659, AXIS Q1700-LE, AXIS Q1785-LE, AXIS Q1786-LE, AXIS Q1798-LE, AXIS Q1941-E, AXIS Q1942-E, AXIS Q3515-LV/-LVE, AXIS Q3517-LV/-LVE/-SLVE, AXIS Q3518-LVE, AXIS Q3527-LVE, AXIS Q6074, AXIS Q6075, AXIS Q6075-S/-SE, AXIS Q8641-E, AXIS Q8642-E, ExCam XF Q1645, ExCam XF Q1785, F101-A XF Q1785, XP40-Q1785 and XP40-Q1942
- Corrected CVE-2021-3658.
Applies to: AXIS Companion Cube LW, AXIS Companion Dome WV, AXIS M1045-LW, AXIS M1065-LW, AXIS M3044-WV and AXIS M3045-WV
- Improved stability of the imaging processing to prevent crashes during darkness.
Applies to: AXIS Companion Dome V
- Corrected an issue that could cause 'transmit.cgi' to close the connection prematurely when transmitting audio to the camera.
Applies to: AXIS Companion Bullet LE, AXIS Companion Cube L/-LW, AXIS Companion Dome V/-WV, AXIS Companion Eye L, AXIS Companion Bullet mini LE, AXIS Companion Dome mini LE, AXIS Companion Eye mini L, AXIS Companion Recorder, AXIS D2050-VE, AXIS FA54, AXIS M1045-LW, AXIS M1065-L/-LW, AXIS M1124/-E, AXIS M1125/-E, AXIS M1134, AXIS M1135/-E, AXIS M1137/-E, AXIS M2025-LE, AXIS M2026-LE, AXIS M2026-LE Mk II, AXIS M3015, AXIS M3016, AXIS M3044-V/-WV, AXIS M3045-V/-WV, AXIS M3046-V, AXIS P9106-V, AXIS M3057-PLVE, AXIS M3058-PLVE, AXIS M3064-V, AXIS M3065-V, AXIS M3066-V, AXIS M3075-V, AXIS M3067-P, AXIS M3068-P, AXIS M3104-L/-LVE, AXIS M3105-L/-LVE, AXIS M3106-L/-LVE, AXIS M3106-L/-LVE Mk II, AXIS M3115-LVE, AXIS M3116-LVE, AXIS M3205-LVE, AXIS M3206-LVE, AXIS P1244, AXIS P1245, AXIS P1254, AXIS P1264, AXIS P1265, AXIS P1275, AXIS P1280-E, AXIS P1290-E, AXIS P1364/-E, AXIS P1365/-E Mk II, AXIS P1367/-E, AXIS P1368-E, AXIS P1375/-E, AXIS P1377/-LE, AXIS P1378/-LE, AXIS P1435-E, AXIS P1435-LE, AXIS P1445-LE, AXIS P1445-LE-3, AXIS P1447-LE, AXIS P1448-LE, AXIS P3224-V/-VE/-LV/-LVE Mk II, P3225-V/-VE/-LV/-LVE Mk II, AXIS P3227-LV/-LVE, AXIS P3228-LV/-LE, AXIS P3235-LV/-LVE, AXIS P3245-V/-VE/-LV/-LVE, AXIS P3247-LV/-LVE, AXIS P3248-LV/-LVE, AXIS P3374-V/-LV, AXIS P3375-V/-VE/-LV/-LVE, AXIS P3717-PLV, AXIS P3807-PVE, AXIS P3925-R/-LRE, AXIS P3935-LR, AXIS P5654-E, AXIS P5655-E, AXIS Q1615/-LE Mk II, AXIS Q1645/-LE, AXIS Q1647/-LE, AXIS Q1659, AXIS Q1700-LE, AXIS Q1785-LE, AXIS Q1786-LE, AXIS Q1798-LE, AXIS Q1941-E, AXIS Q1941-E PT Mount, AXIS Q1942-E, AXIS Q1942-E PT Mount, AXIS Q3515-LV/-LVE, AXIS Q3517-LV/-LVE/-SLVE, AXIS Q3518-LVE, AXIS Q3527-LVE, AXIS Q3615-VE, AXIS Q3617-VE, AXIS Q6010-E, AXIS Q6074/-E, AXIS Q6075/-E/-S/-SE, AXIS Q6125-LE, AXIS Q6215-LE, AXIS Q8641-E, AXIS Q8642-E, AXIS Q9216-SLV, ExCam XF Q1645, ExCam XF Q1785, F101-A XF Q1785, XP40-Q1785 and XP40-Q1942
- Corrected an issue in the temperature controller that caused warnings in the logs after a factory reset.
Applies to: AXIS P3245-V/-VE
- Updated the header for H.265 streams to not include delay information to avoid that some video clients may mistake it for B-frames.
Applies to: AXIS M1134, AXIS M1135/-E, AXIS M1137/-E, AXIS M3067-P, AXIS M3068-P, AXIS M3115-LVE, AXIS M3116-LVE, AXIS P1375/-E, AXIS P1377/-LE, AXIS P1378/-LE, AXIS P3245-V/-VE/-LV/-LVE, AXIS P3247-LV/-LVE, AXIS P3247-LVE/-LVE, AXIS P3925-R/-LRE, AXIS P3935-LR, AXIS P5654-E, AXIS P5655-E, AXIS Q1798-LE, AXIS Q6074/-E and AXIS Q6075/-E/-S/-SE
- Corrected an issue where the camera sometimes did not recover from night mode. Please power off/on the camera after upgrade for this correction to take effect.
Applies to: AXIS M3205-LVE and AXIS M3206-LVE

AXIS OS release notes

LTS 2020 - 9.80

AXIS OS 9.80.3.5

Release date: 2021-09-07 (to be rolled out within three weeks of release date)

Features

- Updated Apache to version 2.4.48 to increase overall cybersecurity level.
- Updated cURL to version 7.78.0 to increase overall cybersecurity level.

Corrections

- The porttest-cgi is not used and is now removed from the platform.
- Corrected an issue that could cause an RTSP stream to stop after 60+ seconds if streamed to an openRTSP client.
- Corrected an issue that interrupted the NTP-time-sync between the Axis device and NTP-server when the NTP-server was unstable and suffered fluctuating time-changes.
- Made sure audio and video frames are grouped correctly in exportrecording.cgi.
- Corrected the following CVEs:
 - *CVE-2021-31988*
 - *CVE-2021-31987*
 - *CVE-2021-31986*
 - *CVE-2021-27219*
 - *CVE-2021-27218*
 - *CVE-2020-26558*
- Corrected an issue that prevented the mute signal to be properly transmitted to the audio controller.
Applies to: AXIS Companion Cube L/-LW and AXIS M1065-L/-LW

AXIS OS 9.80.3.4

Release date: 2021-06-29

Only for AXIS Q6074/-E, AXIS Q6075/-E, D201-S XPT Q6075 and ExCam XPT Q6075.

Features and corrections

- General improvements to the LTS 2020 platform.
- Products with hardware ID 918, 917, 916, 915 and 914 only support 10.6.5 and later, or 9.80.3.4 and later on LTS 2020. Products with hardware ID 7D9, 7DA, 7B0, 7B1 and 7FA support all AXIS OS versions. The hardware ID can be found in **Plain config > Properties > System > HardwareID**.

AXIS OS 9.80.3.3

Release date: 2021-06-28 (to be rolled out within three weeks of release date)

Features

- Updated OpenSSH to version 8.6p1 to increase the overall minimum cyber security level.
- Added support for dynamic power allocation via Link Layer Discovery Protocol (LLDP) in addition to PoE-class based power allocation. This allows the switch to allocate less power to the camera and potentially a greater number of PoE devices can be connected to the switch. LLDP can be enabled in **Settings > System > PlainConfig > Network > LLDP POE > LLDP**

AXIS OS release notes

LTS 2020 - 9.80

Send Max PoE.

Applies to: AXIS M3115-LVE and AXIS M3116-LVE

Corrections

- Corrected an issue that did not account for MTU packet fragmentation for IEEE 802.1x authentication. Previously the Axis device was not able to authenticate properly against an 802.1x network when the MTU was configured to 1410 or lower.
- Corrected an issue that prevented the device to stream in always-multicast mode after the video stream processing was restarted.
- Extended the 802.1x EAP-Identity field character limit from 32 to 128 characters.
- Increased the number of characters allowed in the name of an Action Event Condition, from 80 to 512.
- Corrected an issue that caused already established secure connections such as HTTPS or One-Click Cloud Connections to be interrupted.
Applies to: AXIS Q6074/-E and AXIS Q6075/-E/-S
- Corrected an issue that caused distorted images in cropped corridor mode.
Applies to: AXIS D2050-VE, AXIS FA54, AXIS M3057-PLVE, AXIS M3058, AXIS P1367/-E, AXIS P1368-E, AXIS P1445-LE, AXIS P1445-LE-3, AXIS P1447-LE, AXIS P1448-LE, AXIS P3227-LV/-LVE, AXIS P3228-LV/-LVE, AXIS P3717-PL, AXIS P3807-PVE, AXIS Q1645/-LE, AXIS Q1647/-LE, AXIS Q1659, AXIS Q1700-LE, AXIS Q1785-LE, AXIS Q1786-LE, AXIS Q3515-LV/-LVE, AXIS Q3517-LV/-LVE/-SLVE, AXIS Q3518-LVE, AXIS Q3527-LVE, AXIS Q6215-LE, ExCam XF Q1785, F101-A Q1785 and XP40-Q1785

AXIS OS release notes

PSS 8.40

PSS 8.40

Go to *Products on PSS 8.40 on page 75* for a list of products on this track.

AXIS OS 8.40.68

Release date: 2025-01-17

Cybersecurity updates

- Addressed *CVE-2024-47262*. These CVEs will be externally disclosed on 4 March 2025. More detailed information will follow then. For more information, please visit the *Axis vulnerability management portal*.
- Updated OpenSSL to version 1.1.1za to increase overall cybersecurity level.
- Updated cURL to version 8.11.1 to increase overall cybersecurity level.
- Updated wpa-suplicant to version 2.11 to increase overall cybersecurity level.

Corrections

- Improved "Start Recording" functionality to prevent simultaneous continuous recording.
- Improved stability and reliability of the certificate management service.

AXIS OS 8.40.59

Release date: 2024-09-10

Cybersecurity updates

- Updated Apache to version 2.4.62 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1y to increase overall cybersecurity level.
- Updated OpenSSH to version 9.8p1 to increase overall cybersecurity level.
- Updated cURL to version 8.9.0 to increase overall cybersecurity level.
- Updated libssh2 to version 1.11.0 to increase overall cybersecurity level.
- Updated Nettle cryptographic library to version 3.6 to increase overall cybersecurity level.
- Addressed vulnerability allowing unauthorized command execution via *param.cgi*.
- Addressed a vulnerability allowing DHCPv6 lease injection through unvalidated input parameters.
- Addressed vulnerabilities in GnuTLS: *CVE-2024-28834* and *CVE-2024-28835*.
- Addressed *CVE-2023-52160* in wpa-suplicant to increase overall cybersecurity level.
- Addressed *CVE-2024-0067*, *CVE-2024-6173*, *CVE-2024-6509*. For more information, please visit the *Axis vulnerability management portal*.

Corrections

- Resolved an issue where SSH users could retain access after a factory default with kept IP settings.
- Corrected a stream crash caused by invalid float values in CGI input.
- Implemented DNS cache for O3C client to reduce DNS lookups.

AXIS OS release notes

PSS 8.40

AXIS OS 8.40.48

Release date: 2024-05-29

Cybersecurity updates

- Addressed CVE-2024-0066. For more information, please visit the *Axis vulnerability management portal*.
- The parameter RemoteService.ProxyPassword that controls the proxy password has been masked and made unreadable for security reasons.

AXIS OS 8.40.43

Release date: 2024-03-04

Cybersecurity updates

- Addressed CVE-2024-0054. For more information, please visit the *Axis vulnerability management portal*.
- Addressed CVE-2023-5800. For more information, please visit the *Axis vulnerability management portal*.
- Updated OpenSSL to version 1.1.1x to increase overall cybersecurity level.
- Updated OpenSSH to version 9.6p1 to increase overall cybersecurity level.
- Updated Apache to version 2.4.58 to increase overall cybersecurity level.

Important

This is the last release on the **AXIS OS LTS 2018** track.

- The following products will not receive any further releases as their hardware warranty and software support period has expired:

AXIS P1405-LE Mk II, AXIS P1425-LE Mk II, AXIS P5514/-E, AXIS P5515/-E, AXIS Q1775/-E, AXIS Q3505-V/-VE/-SVE Mk II, AXIS Q3504-V/-VE, AXIS Q6052/-E, AXIS Q6054/-E and AXIS Q6054/-E Mk II

- The following products will continue to receive releases until their hardware warranty and software support period expires:

AXIS Companion 360, AXIS M3047-P, AXIS M3048-P, AXIS M5525-E, AXIS P3915-R Mk II, AXIS P5624-E Mk II, AXIS P5635-E Mk II, AXIS Q6054/-E Mk III, AXIS Q6055/-C/-E/-S, AXIS Q6124-E, AXIS Q6154-E, AXIS Q6155-E, AXIS Q8685-E/-LE, D201-S XPT Q6055 and ExCam XPT Q6055

All other products have the later LTS tracks. See the *Products on PSS 8.40 on page 75* for a complete list of products and their support status.

AXIS OS 8.40.37

Release date: 2023-11-01

Cybersecurity updates

- Updated *cURL* to version 8.4.0 to increase overall cybersecurity level.

Corrections

- Corrected CVE-2023-21418. For more information, please visit the *Axis vulnerability management portal*.

AXIS OS 8.40.35

Release date: 2023-10-09

AXIS OS release notes

PSS 8.40

Cybersecurity updates

- Updated *cURL* to version 8.3.0 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1w to increase the overall cybersecurity level.

Corrections

- Corrected CVE-2023-21415. For more information, please visit the *Axis vulnerability management portal*.

AXIS OS 8.40.31

Release date: 2023-09-05

Cybersecurity updates

- Updated *cURL* to version 8.2.0 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1v to increase the overall cybersecurity level.

Corrections

- Netd Service preserves the static resolver configuration even after a soft restore, safeguarding static DNS/Search domain settings.

AXIS OS 8.40.26

Release date: 2023-06-26

Features

- Improved UPnP compliance by updating the SSDP (Simple Service Discovery Protocol) SERVER header in the standard "OS/version UPnP/1.0 product/version" format and USN (Unique Service Name) field with a UUID in the standard format. This enhances consistency and compatibility.

Cybersecurity updates

- Updated *Apache* to version 2.4.57 to increase the overall cybersecurity level.
- Updated *cURL* to version 8.1.0 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1u to increase the overall cybersecurity level.
- Updated *libupnp* to version 1.14.16, solving a memory leak and improving overall stability.

Corrections

- Corrected an issue with OAK (owner authentication key). It now only produces warnings in the log instead of errors if the device is not able to connect to the internet.

AXIS OS 8.40.19

Release date: 2023-04-26

Features

- Updated *Apache* to version 2.4.56 to increase the overall cybersecurity level.
- Updated *cURL* to version 8.0.1 to increase overall cybersecurity level.
- Improved the manager client certificates and added support for installing multiple trust certificates and requesting/installing a second client certificate.

AXIS OS release notes

PSS 8.40

AXIS OS 8.40.15

Release date: 2023-03-13

Features

- Updated *Apache* to version 2.4.55 to increase the overall cybersecurity level.
- Updated *cURL* to version 7.88.1 to increase overall cybersecurity level.
- Updated *OpenSSL* to version 1.1.1t to increase overall cybersecurity level.
- Receiving ICMP secure redirects from other network hosts are now disabled to increase overall minimum cyber security level.

Corrections

- Corrected an issue affecting some O3C clients, that caused internal authentication requests to fail after a few days of uptime.
- Improved stability of syslog system by addressing a potential memory leak.
- Corrected an issue with the audio transmit function where the response to `/axis-cgi/audio/transmit.cgi` is returning a '400 Bad Request' error.
Applies to: All products with audio support
- Corrected an issue with simultaneous PTZ ONVIF requests.
Applies to: AXIS P5514-E, AXIS P5515, AXIS M5525-E, AXIS P5624-E Mk II, AXIS P5635-E Mk II, AXIS Q1785-LE, AXIS Q1786-LE, AXIS Q6052/-E, AXIS Q6054/-E, AXIS Q6054/-E Mk II, AXIS Q6054/-E Mk III, AXIS Q6055/-E/-C/-S, AXIS Q6124-E, AXIS Q6125-LE, AXIS Q8641-E, AXIS Q8642-E, D201-S XPT Q6055 and ExCam XPT Q6055

AXIS OS 8.40.8

Release date: 2022-12-12

Features

- New versioning on AXIS OS LTS 2018. For more information, see *AXIS OS versioning*.
- Updated *OpenSSL* to version 1.1.1s to increase the overall cybersecurity level.
- Updated *cURL* to version 7.86.0 to increase overall cybersecurity level.

Corrections

- Corrected an issue that caused a wrong file size to be reported for recordings larger than 50MB when using FTP.
- Corrected an issue that prevented streaming in always-multicast mode when the device was started without network connection.
- Corrected an issue in the bootloader that prevented upgrade to AXIS OS LTS 2020 - 9.80.
Applies to: AXIS P1435-E/-LE, AXIS P3904-R Mk II and AXIS P3905-R Mk II
- Increase the number of audio files for pre-configured sounds from 10 to 50.
Applies to: AXIS M5525-E

AXIS OS 8.40.4.7

Release date: 2022-10-18

Features and corrections

- Updated *cURL* to version 7.85.0 to increase overall cybersecurity level.

AXIS OS release notes

PSS 8.40

- Updated OpenSSL to version 1.1.1q to increase the overall cybersecurity.

Corrections

- General improvements to the LTS-2018 platform.
- Corrected an issue that caused audio via external VMS to stop working.
- Improved wide zoom (optical zoom 1x) Autofocus quality during night time conditions.
Applies to: AXIS Q6155-E and AXIS Q6154-E

AXIS OS 8.40.4.6

Release date: 2022-07-21

Features

- Updated Apache web server to version 2.4.54 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1p to increase overall cybersecurity level.
- Updated cURL to version 7.83.1 to increase overall cybersecurity level.

Corrections

- Corrected an issue where the time tooltip was not displaying the correct date after passing midnight. Also, the date in the recordings list and the export was sometimes 1 day off.
- Corrected an issue where 802.1X would not trust the intermediate certificate authority (CA).
- Corrected an issue that caused time-out while reading boot block parameters.

AXIS OS 8.40.4.5

Release date: 2022-05-18 (to be rolled out within 3 weeks of release date)

Features

- Updated Apache to version 2.4.53 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1o to increase the overall cybersecurity level.
- Updated wpa-suplicant to version 2.10 to increase overall cybersecurity level.

Corrections

- General improvements to the LTS 2018 platform.
- Receiving ICMP redirects from other network hosts is now disabled to increase overall minimum cybersecurity level.
- Improved memory management in the network services daemon.
- Corrected an issue that caused the send images event to stop uploading towards a FTP server when the filename included a space (" ").
- Corrected *CVE-2018-25032*.

AXIS OS 8.40.4.4

Release date: 2022-01-24 (to be rolled out within 3 weeks of release date)

Features

AXIS OS release notes

PSS 8.40

- Updated Apache to version 2.4.52 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1m to increase overall cybersecurity level.
- Updated cURL to version 7.79.1 to increase overall cybersecurity level.

Corrections

- The remote syslog configuration is now preserved during a AXIS OS update within the same track.
- Improved handling of empty recordings.
- Corrected an issue that prevented AXIS OS upgrade from LTS 2016 (6.50).
- Corrected CVE-2021-3658.
Applies to: AXIS Companion Cube LW, AXIS M1045-LW, AXIS M1065-LW, AXIS M3044-WV and AXIS M3045-W
- Improved stability of the imaging processing to prevent crashes in some darkness conditions.
Applies to: AXIS Companion Dome V
- Corrected an issue that could cause 'transmit.cgi' to close connection prematurely when transmitting audio to the camera.
Applies to: AXIS Companion Cube L/-LW, AXIS FA54, AXIS M1065-L/-LW, AXIS P1364/-E, AXIS P1365/-E Mk II, AXIS P1367/-E, AXIS P1368-E, AXIS P1445-LE, AXIS P1445-LE-3, AXIS P1447-LE, AXIS P1448-LE, AXIS P3235-LV/-LVE, AXIS P3374-V/-LV, AXIS P3375-V/-VE/-LV/-LVE, AXIS Q1615/-E Mk II, AXIS Q1645/-LE, AXIS Q1647/-LE, AXIS Q1659, AXIS Q1785-LE, AXIS Q1786-LE, AXIS Q1941-E, AXIS Q1942-E, AXIS Q3515-LV/-LVE, AXIS Q3517-LV/-LVE/-SLVE, AXIS Q3518-LVE, ExCam XF Q1645 and XP40-Q1942

AXIS OS 8.40.4.3

Release date: 2021-10-04 (to be rolled out within 3 weeks of release date)

Features

- Updated Apache to version 2.4.48 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1l to increase overall cyber security level.
- Updated cURL to version 7.78.0 to increase overall cybersecurity level.
- Updated OpenSSH to version 8.6p1 to increase the overall minimum cybersecurity level.

Corrections

- Corrected an issue that in combination with some VMSes and low resolution could cause brief disconnections in the video stream.
- Improved memory management in the network services daemon.
- Improved memory management in the DHCP lease update daemon.
- Corrected an issue that prevented the Axis device to respond with "HTTP 403 Forbidden" when the source-ip address was blocked when using PreventDOSAttack in **Plain Config > System**. Previously "HTTP 401 Unauthorized" was returned.
- Corrected nice names for the PreventDoSAttack parameters in **Settings > System > Plain Config > System > PreventDoSAttack**.
- Corrected an issue that did not account for MTU packet fragmentation for IEEE 802.1x authentication. Previously the Axis device was not able to authenticate properly against an 802.1x network when the MTU was configured to 1410 or lower.
- Corrected an issue that prevented streaming in always-multicast mode on rare occasions.
- Extended the 802.1x EAP-Identity field character limit from 32 to 128 characters.

AXIS OS release notes

PSS 8.40

- Corrected an issue that interrupted the NTP-time-sync between the Axis device and NTP-server when the NTP-server was unstable and suffered fluctuating time-changes.
- Corrected an issue that could cause an RTSP stream to stop after 60+ seconds if streamed to an openRTSP client.
- Corrected the following CVE:s
 - *CVE-2021-31988*
 - *CVE-2021-31987*
 - *CVE-2021-31986*
 - *CVE-2021-27219*
 - *CVE-2021-27218*
 - *CVE-2020-26558*
Affected products: AXIS M1045-LW, AXIS M1065-LW, AXIS M3045-WV, AXIS M3044-WV, AXIS Companion Cube LW and AXIS Companion Dome WV
 - *CVE-2019-12450*
- Corrected an issue that caused images to be unusually dark when using WDR mode.
Applies to: AXIS Companion Bullet LE, AXIS Companion Eye L/-LVE, AXIS M1124/-E, AXIS M1125/-E, AXIS M2025-LE, AXIS M3104-L/-LVE, AXIS M3105-L/-LVE, AXIS P1244, AXIS P1245, AXIS P1254, AXIS P1264, AXIS P1265, AXIS P1275, AXIS P1280-E, AXIS P1290-E, AXIS P1364/-E, AXIS P1365/-E Mk II, AXIS P1435-E/-LE, AXIS P3224-V/-VE/-LV/-LVE Mk II, AXIS P3225-V/-VE/-LV/-LVE Mk II, AXIS P3235-LV/-LVE, AXIS P3374-V/-LV, AXIS P3375-V/-VE/-LV/-LVE, AXIS Q1615/-E Mk II, AXIS Q1941-E, AXIS Q1941-E PT Mount, AXIS Q1942-E, AXIS Q1942-E PT Mount, AXIS Q3615-VE, AXIS Q3617-VE, AXIS Q6154-E, AXIS Q8641-E, AXIS Q8642-E and XP40-Q1942
- Corrected an issue that caused installation of ACAP using packagemanager.cgi to fail.
Applies to: AXIS M3045-V
- Improved system stability when streaming multiple video streams at the same time.
Applies to: AXIS FA54
- Improved stability in recording management.
Applies to: AXIS Companion Cube L/-LW, AXIS Companion Dome V/-WV, AXIS M1045-LW, AXIS M1065-L/-LW, AXIS M2026-LE, AXIS M3044-V/-WV, AXIS M3045-V/-WV, AXIS M3046-V, AXIS P9106-V, AXIS M3106-L/-LVE

AXIS OS 8.40.4.2

Release date: 2021-04-19 (to be rolled out within 3 weeks of release date)

Features

- Updated OpenSSL to version 1.1.1k to fix *CVE-2021-3449* and *CVE-2021-3450*.
- Updated cURL to version 7.73.0 to increase overall cybersecurity level.

Corrections

- Improved Link Layer Discovery Protocol (LLDP) system stability.
- Corrected an issue that caused IEEE 802.1x network authentication to fail sometimes after unexpected reboots.
- Corrected an issue in oak.cgi that could cause invalid requests.
- Corrected an issue that caused the value of Quality of Service (QoS) to not be respected in always multicast mode.
- Corrected an issue that caused PKCS#12-formatted certificate uploads to fail when certain special characters were used as a password.

AXIS OS release notes

PSS 8.40

- Corrected an issue that caused video clients to not display a low-FPS video stream due to missing base FPS info in VUI timing info.
Applies to: AXIS FA54, AXIS M3057-PLVE, AXIS M3058-PLVE, AXIS P1367/-E, AXIS P1368-E, AXIS P1445-LE, AXIS P1445-LE-3, AXIS P1447-LE, AXIS P1448-LE, AXIS P3227-LV/-LVE, AXIS P3228-LV/-LVE, AXIS Q1645/-LE, AXIS Q1647/-LE, AXIS Q1659, AXIS Q1785-LE, AXIS Q1786-LE, AXIS Q3515-LV/-LVE, AXIS Q3517-LV/-LVE/-SLVE and AXIS Q3518-LVE
- Corrected an issue that could cause live image to blink in dark conditions on rare occasions.
Applies to: AXIS FA54, AXIS M3057-PLVE, AXIS M3058-PLVE, AXIS P1367/-E, AXIS P1368-E, AXIS P1445-LE, AXIS P1445-LE-3, AXIS P1447-LE, AXIS P1448-LE, AXIS P3227-LV/-LVE, AXIS P3228-LV/-LVE, AXIS Q1645/-LE, AXIS Q1647/-LE, AXIS Q1659, AXIS Q1785-LE, AXIS Q1786-LE, AXIS Q3515-LV/-LVE, AXIS Q3517-LV/-LVE/-SLVE and AXIS Q3518-LVE
- Corrected an issue with pause-frame handling that could cause network disconnections if pause-frames were enabled and used in the network.
Applies to: AXIS FA54, AXIS M3057-PLVE, AXIS M3058-PLVE, AXIS P1367/-E, AXIS P1368-E, AXIS P1445-LE, AXIS P1445-LE-3, AXIS P1447-LE, AXIS P1448-LE, AXIS P3227-LV/-LVE, AXIS P3228-LV/-LVE, AXIS Q1645/-LE, AXIS Q1647/-LE, AXIS Q1659, AXIS Q1785-LE, AXIS Q1786-LE, AXIS Q3515-LV/-LVE, AXIS Q3517-LV/-LVE/-SLVE and AXIS Q3518-LVE
- Corrected an issue that prevented the device to utilize the available network bandwidth in high-latency networks such as 4G cellular network.
Applies to: AXIS FA54, AXIS M3057-PLVE, AXIS M3058-PLVE, AXIS P1367/-E, AXIS P1368-E, AXIS P1445-LE, AXIS P1445-LE-3, AXIS P1447-LE, AXIS P1448-LE, AXIS P3227-LV/-LVE, AXIS P3228-LV/-LVE, AXIS Q1645/-LE, AXIS Q1647/-LE, AXIS Q1659, AXIS Q1785-LE, AXIS Q1786-LE, AXIS Q3515-LV/-LVE, AXIS Q3517-LV/-LVE/-SLVE and AXIS Q3518-LVE

AXIS OS 8.40.4.1

Release date: 2020-11-16 (to be rolled out within 3 weeks of release date)

Features

- Updated Apache to version 2.4.46 to increase overall cybersecurity level.
- Added support for HTTP Strict Transport Security (HSTS) when using HTTPS.
- Reduced time to build-up an RTSP video stream by 30% and more.

Corrections

- Corrected an issue that caused an error message to pop up when pressing the test button of an event using HTTP recipients.
- Corrected an issue that caused distorted H.265 streams on rare occasions.
Applies to: AXIS M2026-LE Mk II, AXIS M3015, AXIS M3016, and AXIS M3106-L/-LVE Mk II
- Corrected an issue that could cause image to shake when Electronic Image Stabilization (EIS) was activated during high zoom (x32) operations.
Applies to: AXIS Q1785-LE and AXIS Q1786-LE

AXIS OS release notes

PSS 6.50

PSS 6.50

Go to *Products on PSS 6.50 on page 76* for a list of products that will continue to receive updates. The list will be modified over time as the expiry date of the products varies, and it is only valid for the latest release. Although supported products are planned to receive updates twice a year, they will receive security patches whenever it is deemed necessary.

AXIS OS 6.50.5.19

Release date: 2024-11-13

Cybersecurity updates

- Updated cURL to version 8.10.1 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1za, addressing *CVE-2024-5535*.
- Updated OpenSSH to version 9.8p1, addressing *CVE-2024-6387*.
- Updated Apache to version 2.4.62, addressing *CVE-2024-40725* and *CVE-2024-40898*.
- Updated libssh2 to version 1.11.0, addressing *CVE-2023-48795*.
- Addressed *CVE-2023-52160* in wpa-suplicant to increase overall cybersecurity level.
- Addressed *CVE-2024-47257*. This CVE will be externally disclosed on 26 November 2024 as part of our ongoing commitment to cybersecurity. Detailed information will follow then. For more information, please visit the *Axis vulnerability management portal*.
- Improved certificate management service stability and reliability.

Corrections

- Corrected issue with SSH user access after factory default with kept IP settings.
- Added DNS cache for O3C client to reduce DNS lookup times.

AXIS OS 6.50.5.18

Release date: 2024-05-28

Cybersecurity updates

- Addressed *CVE-2024-0066*. For more information, please visit the *Axis vulnerability management portal*.
- Updated cURL to version 8.7.1 to increase overall cybersecurity level.
- Updated OpenSSH to version 9.6p1 to increase overall cybersecurity level.

AXIS OS 6.50.5.17

Release date: 2024-03-19

Cybersecurity updates

- Updated cURL to version 8.6.0 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1x to increase overall cybersecurity level.

AXIS OS release notes

PSS 6.50

AXIS OS 6.50.5.16

Release date: 2024-01-29

Cybersecurity updates

- Updated Apache to version 2.4.58 to increase the overall cybersecurity level.

Corrections

- Netd Service now preserves the static resolver configuration even after a soft reset, protecting static DNS/Search domain settings.

AXIS OS 6.50.5.15

Release date: 2023-11-08

Cybersecurity updates

- Updated *cURL* to version 8.4.0 to increase overall cybersecurity level.
- Addressed CVE-2023-21418. For more information, please visit the *Axis vulnerability management portal*.

AXIS OS 6.50.5.14

Release date: 2023-10-19

Cybersecurity updates

- Updated *cURL* to version 8.3.0 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1w to increase the overall cybersecurity level.

Corrections

- Corrected CVE-2023-21415. For more information, please visit the *Axis vulnerability management portal*.

AXIS OS 6.50.5.13

Release date: 2023-08-28

Cybersecurity updates

- Updated *cURL* to version 8.2.0 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1v to increase the overall cybersecurity level.

Corrections

- Resolved an issue where the respawn daemon incorrectly managed restarts for ACAP services, notably in situations with multiple acaps running simultaneously.

AXIS OS 6.50.5.12

Release date: 2023-08-02

Features

- General improvements to the platform.

Cybersecurity updates

AXIS OS release notes

PSS 6.50

- Added proxy configuration support to the Owner Authentication Key (OAK) cgi using group root.RemoteService, simplifying setup on networks requiring proxy servers for Internet access and improving the authentication process.
- Updated *Apache* to version 2.4.57 to increase the overall cybersecurity level.
- Updated OpenSSL to version 1.1.1u to increase the overall cybersecurity level.

AXIS OS 6.50.5.11

Release date: 2023-05-29

Features

- Updated *Apache* to version 2.4.56 to increase the overall cybersecurity level.
- Updated *cURL* to version 8.0.1 to increase overall cybersecurity level.
- Added support for a second client certificate.

AXIS OS 6.50.5.10

Release date: 2023-04-04

Features

- Updated *Apache* to version 2.4.55 to increase the overall cybersecurity level.
- Updated OpenSSL to version 1.1.1t to increase overall cybersecurity level.
- Updated *cURL* to version 7.88.1 to increase overall cybersecurity level.

Corrections

- Corrected an issue affecting some O3C clients, that caused internal authentication requests to fail after a few days of uptime.

AXIS OS 6.50.5.8

Release date: 2023-02-09

Corrections

- Disabled secure redirects from other network hosts `net.ipv4.conf.all.secure_redirects` & `net.ipv4.conf.default.secure_redirects`, to increase overall minimum cybersecurity level.
- Corrected a restart issue caused by tilting the PTZ camera to 90 degrees. The issue was introduced in version 6.50.5.5 and 6.50.5.6.
Applies to: AXIS Q6128-E
- Corrected an issue with the audio transmit function where the response to `/axis-cgi/audio/transmit.cgi` is returning a '400 Bad Request' error.
Applies to: All products with audio support

AXIS OS release notes

PSS 6.50

Important

This is the last release on the **AXIS OS LTS 2016** track.

The following product will continue to receive releases until the hardware warranty and software maintenance period has expired:

AXIS F34, AXIS F41, AXIS F44 Dual audio input, AXIS M1145/-L, AXIS M3026-VE, AXIS M3027-PVE, AXIS M7011, AXIS P1427-E/-LE, AXIS P3353, AXIS P3354, AXIS P3363-V/-VE, AXIS P3364-V/-VE/-LV/-LVE, AXIS P3365-V/-VE, AXIS P3367-V/-VE, AXIS P3384-V/-VE, AXIS P3707-PE, AXIS P3904-R, AXIS P3905-R/-RE, AXIS P3915-R, AXIS P5414-E, AXIS P5415-E, AXIS P7224, AXIS P8535, AXIS P8804, AXIS P8804-2, AXIS Q1615/-E, AXIS Q1635/-E, AXIS Q1765-LE PT Mount, AXIS Q1765-LE, AXIS Q2901-E PT Mount, AXIS Q2901-E, AXIS Q6000-E/ MK II, AXIS Q6114-E, AXIS Q6115-E, AXIS Q6128-E, AXIS Q7411, AXIS Q7436, AXIS Q8414-LV, AXIS Q8665-E/-LE, XF40-Q1765, XF40-Q2901, XF60-Q1765, XF60-Q2901 and XP40-Q1765

The following products have later LTS tracks. Please upgrade to the latest version to increase cybersecurity:

AXIS M1124/-E, AXIS M1125/-E, AXIS P1364/-E, AXIS P1365/-E Mk II, AXIS P1435-E/-LE, AXIS P3904-R Mk II, AXIS P3905-R Mk II, AXIS P3915-R Mk II, AXIS P5514/-E, AXIS P5515/-E, AXIS P5624-E Mk II, AXIS P5635-E Mk II, AXIS Q1775/-E, AXIS Q6052/-E, AXIS Q6054/-E, AXIS Q6055/-E, AXIS Q6155-E, D201-S XPT Q6055 and ExCam XPT Q6055

The following products will not receive any more releases since the hardware warranty and software maintenance period has expired:

AXIS F44 Main unit, AXIS M3006-V, AXIS M3007-P/-PV, AXIS P1354/-E, AXIS P1353/-E, AXIS P1357/-E, AXIS P1365/-E, AXIS P1405-E/-LE, AXIS P1425-E/-LE, AXIS P3214-V/-VE, AXIS P3215-V/-VE, AXIS P3224-LV/-LVE, AXIS P3225-LV/-LVE, AXIS P5624-E, AXIS P5635-E, AXIS Q1604/-E, AXIS Q1614/-E, AXIS Q1931-E, AXIS Q1931-E PT Mount, AXIS Q1932-E, AXIS Q1932-E PT Mount, AXIS Q3505-V/-VE, AXIS Q6042/-E/-C/-S, AXIS Q6044/-E/-C/-S, AXIS Q6045/-E/-C/-S Mk II, AXIS Q8631-E and AXIS Q8632-E

AXIS OS 6.50.5.7

Release date: 2022-12-19

Features and corrections

- Updated Apache to version 2.4.54 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1s to increase the overall cybersecurity level.
- Updated cURL to version 7.86.0 to increase overall cybersecurity level.
- Corrected an issue that caused audio via external VMS to stop working.
- Corrected an issue that caused the wrong file size to be reported for recordings larger than 50MB when using FTP.
- Corrected an issue where 802.1X would not trust the intermediate certificate authority (CA).

AXIS OS 6.50.5.6

Release date: 2022-05-11 (to be rolled out within three weeks of release date)

Features

- Updated OpenSSL to version 1.1.1o to increase overall cybersecurity level.
- Updated Apache to version 2.4.53 to increase overall cybersecurity level.
- Updated cURL to version 7.79.1 to increase overall cybersecurity level.
- Updated wpa-suplicant to version 2.10 to increase overall cybersecurity level.

Corrections

- General improvements to the LTS 2016 platform.

AXIS OS release notes

PSS 6.50

- Receiving ICMP redirects from other network hosts is now disabled to increase overall minimum cybersecurity level.
- Improved handling of empty recordings.
- Corrected an issue with uploading RSA certificate with PKCS#8 formatted private keys.
- Corrected an issue that caused the send images event to stop uploading towards an FTP server when the filename included a space (" ").
- Corrected an issue with file permission when using disk encryption
- Corrected an issue that caused ONVIF AbsoluteMove commands to return a 500 Internal Server Error.
- Corrected *CVE-2021-29462*.
- Corrected *CVE-2020-13848*.
- Corrected *CVE-2019-15916*.

AXIS OS 6.50.5.5

Release date: 2021-10-25 (to be rolled out within three weeks of release date)

Features

- Updated Apache to version 2.4.48 to increase overall cybersecurity level.
- Updated OpenSSH to version 8.6p1 to increase the overall minimum cybersecurity level.
- Updated cURL to version 7.78.0 to increase overall cybersecurity level.
- Updated OpenSSL to version 1.1.1l to increase overall minimum cybersecurity level.

Corrections

- Corrected the following CVEs:
 - *CVE-2021-31988*
 - *CVE-2021-31987*
 - *CVE-2021-31986*
 - *CVE-2021-27219*
 - *CVE-2021-27218*
 - *CVE-2019-12450*
- Corrected an issue that caused video clients such as VLC to not display a low-FPS video stream due to missing base FPS info in VUI timing info.

AXIS OS 6.50.5.4

Release date: 2021-05-17 (to be rolled out within three weeks of release date)

Features

- Updated OpenSSL to version 1.1.1k to fix *CVE-2021-3449* and *CVE-2021-3450*.

Corrections

- Corrected an issue that caused the value of Quality of Service (QoS) to not be respected in always multicast mode.

AXIS OS release notes

PSS 6.50

AXIS OS 6.50.5.3

Release date: 2020-11-09 (to be rolled out within three weeks of release date)

Features

- Updated Apache to version 2.4.46 to increase overall cyber security level.

Corrections

- Corrected an issue that caused a test button in the web interface to not work when mounting network-attached storage (NAS) configured with SMB v3.
- Added a sensitivity parameter for tampering detection in PlainConfig that can now be adjusted by the user.
Applies to: AXIS P1244, AXIS P1245, AXIS P1254, AXIS P1264, AXIS P1265, AXIS P1275, AXIS P1364/-E, AXIS P1365/-E Mk II and AXIS P1435-E/-LE
- Corrected an issue that caused a failure to send images with action rules to email recipients.
Applies to: AXIS P1244, AXIS P1245, AXIS P1254, AXIS P1264, AXIS P1265, AXIS P1275, AXIS P1364/-E, AXIS P1365/-E Mk II and AXIS P1435-E/-LE

AXIS OS release notes

Product groups

Product groups

System-on-chip (SoC)

Features or corrections are sometimes applied to a group of products based on the system-on-chip (SoC). These groups are listed below and are sometimes referenced in the release notes.

For more information, visit [System-on-chip](#).

AXIS ARTPEC-9

- | |
|--|
| <ul style="list-style-type: none">• AXIS Q1728 |
|--|

AXIS ARTPEC-8

<ul style="list-style-type: none">• AXIS D2210-VE• AXIS M3215• AXIS M3216• AXIS M4317-PLVE• AXIS M4318-PLVE• AXIS M4327-P• AXIS M4328-P• AXIS M5526-E• AXIS P1385/-B/-BE/-E• AXIS P1387/-B/-BE/-LE• AXIS P1388/-B-BE/-LE• AXIS P1465-LE• AXIS P1465-LE-3• AXIS P1467-LE• AXIS P1468-LE• AXIS P1468-XLE	<ul style="list-style-type: none">• AXIS P3265-V/-LV/-LVE• AXIS P3265-LVE-3• AXIS P3267-LV/-LVE/-LVE Mic• AXIS P3268-LV/-LVE/-SLVE• AXIS P3735-PL• AXIS P3737-PL• AXIS P3738-PL• AXIS P3827-PVE• AXIS P4705-PLVE• AXIS P4707-PLVE• AXIS P4708-PLVE• AXIS P9117-PV• AXIS Q1656/-B/-BE/-BLE/-DLE/-LE• AXIS Q1686-DLE	<ul style="list-style-type: none">• AXIS Q1800-LE• AXIS Q1800-LE-3• AXIS Q1805-LE• AXIS Q1806-LE• AXIS Q1808-LE• AXIS Q1809-LE• AXIS Q1961-TE/-XTE• AXIS Q1971-E• AXIS Q2101-TE• AXIS Q3536-LVE• AXIS Q3538-LVE• AXIS Q3626-VE• AXIS Q3628-VE• AXIS Q9307-LV• AXIS XEQ1656
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AXIS ARTPEC-7

<ul style="list-style-type: none">• AXIS D2110-VE• AXIS F9104-B Main Unit• AXIS F9111 Main Unit• AXIS F9114 Main Unit• AXIS F9114-B Main Unit• AXIS I8016-LVE• AXIS M1134• AXIS M1135/-E• AXIS M1137/-E• AXIS M3057-PLVE Mk II• AXIS M3067-P• AXIS M3068-P• AXIS M3077-PLVE• AXIS M3115-LVE• AXIS M3116-LVE• AXIS M4308-PL• AXIS M5000/-G• AXIS M5074• AXIS M5075/-G• AXIS M7104	<ul style="list-style-type: none">• AXIS P1375/-E• AXIS P1377/-LE• AXIS P1378/-LE• AXIS P1455-LE• AXIS P1455-LE-3• AXIS P3245-V/-VE/-LV/-LVE• AXIS P3245-LVE-3• AXIS P3247-LV/-LVE• AXIS P3248-LV/-LVE• AXIS P3255-LVE• AXIS P3727-PL• AXIS P3818-PVE• AXIS P3925-R/-LRE• AXIS P3935-LR• AXIS P5654-E• AXIS P5654-E Mk II• AXIS P5655-E• AXIS P5676-LE• AXIS P7304• AXIS P7316	<ul style="list-style-type: none">• AXIS Q1615-/LE Mk III• AXIS Q1715• AXIS Q1798-LE• AXIS Q1951-E• AXIS Q1952-E• AXIS Q3819-PVE• AXIS Q6074/-E• AXIS Q6075/-E/-S/-SE• AXIS Q6078-E• AXIS Q6135-LE• AXIS Q6225-LE• AXIS Q6315-LE• AXIS Q6318-LE• AXIS Q8615-E• AXIS Q8752-E• AXIS V5925• AXIS V5938• D201-S XPT Q6075• ExCam XPT Q6075• ExCam XF P1377• F101-AXF P1377
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AXIS OS release notes

Product groups

AXIS ARTPEC-6

<ul style="list-style-type: none">• AXIS A8207-VE• AXIS A8207-VE Mk II• AXIS D2050-VE• AXIS FA54• AXIS M3057-PLVE• AXIS M3058-PLVE• AXIS P1367/-E• AXIS P1368-E• AXIS P1445-LE• AXIS P1445-LE-3• AXIS P1447-LE• AXIS P1448-LE	<ul style="list-style-type: none">• AXIS P3227-LV/-LVE• AXIS P3228-LV/-LVE• AXIS P3715-PLVE• AXIS P3717-PLE• AXIS P3807-PVE• AXIS P8815-2• AXIS Q1645/-LE• AXIS Q1647/-LE• AXIS Q1659• AXIS Q1700-LE• AXIS Q1785-LE• AXIS Q1786-LE	<ul style="list-style-type: none">• AXIS Q3515-LV/-LVE• AXIS Q3517-LV/-LVE/-SLVE• AXIS Q3518-LVE• AXIS Q3527-LVE• AXIS Q6215-LE• AXIS XPQ1785• D101-A XF P3807• ExCam XF P1367• ExCam XF Q1645• ExCam XF Q1785• F101-A XF P1367• F101-A XF Q1785• XP40-Q1785
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Ambarella CV25

<ul style="list-style-type: none">• AXIS I8116-E• AXIS I7010-VE• AXIS M1055-L• AXIS M1075-L• AXIS M2035-LE• AXIS M2036-LE	<ul style="list-style-type: none">• AXIS M3085-V• AXIS M3086-V/-V Mic• AXIS M3088-V• AXIS M3125-LVE• AXIS M3126-LVE• AXIS M3128-LVE	<ul style="list-style-type: none">• AXIS M4215-LV/-V• AXIS M4218-LV/-V• AXIS M4216-LV/-V• AXIS P1245 Mk II• AXIS P1265 Mk II• AXIS P1275 Mk II
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Ambarella S5

<ul style="list-style-type: none">• AXIS P3719-PLE• AXIS Q6010-E• AXIS Q6100-E
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Ambarella S5L

<ul style="list-style-type: none">• AXIS M3064-V• AXIS M3065-V• AXIS M3066-V• AXIS M3075-V	<ul style="list-style-type: none">• AXIS M3205-LVE• AXIS M3206-LVE• AXIS Q9216-SLV
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Ambarella S6L

<ul style="list-style-type: none">• AXIS M3905-R• AXIS P3905-R Mk III
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I.MX 6SX

<ul style="list-style-type: none">• AXIS A1210/-B• AXIS A1601• AXIS A1610/-B• AXIS C1210-E• AXIS C1211-E	<ul style="list-style-type: none">• AXIS C1510• AXIS C1511• AXIS C1610-VE• AXIS C8110• AXIS C8210
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AXIS OS release notes

Product groups

I.MX 6ULL

- AXIS C1310-E
- AXIS C1410
- AXIS D3110
- AXIS D4100-E

I.MX 8M-NANO

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| <ul style="list-style-type: none">• AXIS C1110-E• AXIS C1111-E | <ul style="list-style-type: none">• AXIS C1310-E Mk II• AXIS C1410 Mk II• AXIS XC1311 |
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I.MX 8M-Mini

- AXIS C6110

I.MX 8QP/M

- AXIS D1110
- AXIS S3008
- AXIS S3008 Mk II
- AXIS S3016

Products per track

The product groups below are based on the active track and the available LTS tracks.

Products on active track – AXIS OS 12

Note

The product list is subject to change, new products will be added over time.

<ul style="list-style-type: none">• AXIS A1210/-B• AXIS A1601• AXIS A1610/-B• AXIS A8207-VE Mk II• AXIS C1110-E• AXIS C1111-E• AXIS C1210-E• AXIS C1211-E• AXIS C1310-E Mk II• AXIS C1410 Mk II• AXIS C1510• AXIS C1511• AXIS C1610-VE• AXIS C6110• AXIS C8110• AXIS C8210• AXIS D1110• AXIS D2110-VE• AXIS D2210-VE• AXIS FA51/-B• AXIS FA54• AXIS F9104-B Main Unit• AXIS F9111 Main Unit• AXIS F9114 Main Unit	<ul style="list-style-type: none">• AXIS M4216-LV/-V• AXIS M4218-LV/-V• AXIS M4308-PL• AXIS M4317-PLVE• AXIS M4318-PLVE• AXIS M4327-P• AXIS M4328-P• AXIS M5000/-G• AXIS M5074• AXIS M5075/-G• AXIS M5526-E• AXIS M7104• AXIS M7116• AXIS P1245 Mk II• AXIS P1265 Mk II• AXIS P1275 Mk II• AXIS P1385/-B/-BE/-E• AXIS P1387/-B/-BE/-LE• AXIS P1388/-B/-BE/-LE• AXIS P1465-LE• AXIS P1465-LE-3• AXIS P1467-LE• AXIS P1468-LE• AXIS P1468-XLE	<ul style="list-style-type: none">• AXIS P7304• AXIS P7316• AXIS P9117-PV• AXIS Q1615/-LE Mk III• AXIS Q1656/-B/-BE/-BLE/-DLE/-LE• AXIS Q1686-DLE• AXIS Q1715• AXIS Q1728• AXIS Q1798-LE• AXIS Q1800-LE• AXIS Q1800-LE-3• AXIS Q1805-LE• AXIS Q1806-LE• AXIS Q1808-LE• AXIS Q1809-LE• AXIS Q1961-TE/-XTE• AXIS Q1971-E• AXIS Q2101-TE• AXIS Q3536-LVE• AXIS Q3538-LVE/-SLVE• AXIS Q3626-VE• AXIS Q3628-VE• AXIS Q3819-PVE
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AXIS OS release notes

Product groups

<ul style="list-style-type: none">• AXIS F9114-B Main Unit• AXIS I8016-LVE• AXIS I8116-E• AXIS I7010-VE• AXIS M1055-L• AXIS M1075-L• AXIS M1135/-E Mk II• AXIS M1137/-E Mk II• AXIS M2035-LE• AXIS M2036-LE• AXIS M3057-PLR Mk II• AXIS M3085-V• AXIS M3086-V/-V Mic• AXIS M3088-V• AXIS M3125-LVE• AXIS M3126-LVE• AXIS M3128-LVE• AXIS M3215-LVE• AXIS M3216-LVE• AXIS M3905-R• AXIS M4215-LV/-V	<ul style="list-style-type: none">• AXIS M3215• AXIS M3216• AXIS P3265-V/-LV/-LVE• AXIS P3265-LVE-3• AXIS P3267-LV/-LVE/-LVE Mic• AXIS P3268-LV/-LVE/-SLVE• AXIS P3735-PL• AXIS P3737-PL• AXIS P3738-PL• AXIS P3818-PVE• AXIS P3827-PVE• AXIS P3905-R Mk III• AXIS P3925-R/-LRE• AXIS P3935-LR• AXIS P4705-PLVE• AXIS P4707-PLVE• AXIS P4708-PLVE• AXIS P5654-E• AXIS P5654-E MK II• AXIS P5655-E• AXIS P5676-LE	<ul style="list-style-type: none">• AXIS Q6074/-E• AXIS Q6075/-E/-S/-SE• AXIS Q6078-E• AXIS Q6135-LE• AXIS Q6225-LE• AXIS Q6315-LE• AXIS Q6318-LE• AXIS Q8615-E• AXIS Q8752-E• AXIS Q9307-LV• AXIS S3008• AXIS S3008 Mk II• AXIS S3016• AXIS V5925• AXIS V5938• AXIS XC1311• AXIS XPQ1785• AXIS XFQ1656• D201-S XPT Q6075• ExCam XF Q1785• ExCam XPT Q6075• XF40-Q1785
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Products on LTS 2024 - 11.11

<ul style="list-style-type: none">• AXIS A8207-VE• AXIS A8207-VE Mk II• AXIS C1110-E• AXIS C1111-E• AXIS C1210-E• AXIS C1211-E• AXIS C1310-E• AXIS C1310-E Mk II• AXIS C1410• AXIS C1410 Mk II• AXIS C1510• AXIS C1511• AXIS C1610-VE• AXIS C8110• AXIS C8210• AXIS D1110• AXIS D2110-VE• AXIS D2210-VE• AXIS D3110• AXIS D4100-E• AXIS FA51/-B• AXIS FA54• AXIS F9104-B Main Unit• AXIS F9111 Main Unit• AXIS F9114 Main Unit• AXIS F9114-B Main Unit• AXIS I8016-LVE• AXIS I8116-E• AXIS I7010-VE• AXIS M1055-L• AXIS M1075-L• AXIS M1135/-E Mk II• AXIS M1137/-E Mk II• AXIS M2035-LE• AXIS M2036-LE• AXIS M3057-PLVE Mk II	<ul style="list-style-type: none">• AXIS M5526-E• AXIS M7104• AXIS M7116• AXIS P1245 Mk II• AXIS P1265 Mk II• AXIS P1275 Mk II• AXIS P1375-E• AXIS P1377-LE• AXIS P1378-LE• AXIS P1385/-B/-BE/-E• AXIS P1387/-B/-BE/-LE• AXIS P1388/-B/-BE/-LE• AXIS P1445-LE• AXIS P1445-LE-3• AXIS P1447-LE• AXIS P1448-LE• AXIS P1455-LE• AXIS P1455-LE-3• AXIS P1465-LE• AXIS P1465-LE-3• AXIS P1467-LE• AXIS P1468-LE• AXIS P1468-XLE• AXIS M3215• AXIS M3216• AXIS P3227-LV/-LVE• AXIS P3228-LV/-LVE• AXIS P3245-V/-VE/-LV/-LVE• AXIS P3245-LVE-3• AXIS P3247-LV/-LVE• AXIS P3248-LV/-LVE• AXIS P3255-LVE• AXIS P3265-V/-LV/-LVE• AXIS P3265-LVE-3• AXIS P3267-LV/-LVE/-LVE Mic	<ul style="list-style-type: none">• AXIS Q1615• AXIS Q1615-LE Mk III• AXIS Q1645/-LE• AXIS Q1647/-LE• AXIS Q1656/-B/-BE/-BLE/-DLE/-LE• AXIS Q1659• AXIS Q1700-LE• AXIS Q1715• AXIS Q1785-LE• AXIS Q1786-LE• AXIS Q1798-LE• AXIS Q1805-LE• AXIS Q1806-LE• AXIS Q1808-LE• AXIS Q1809-LE• AXIS Q1951-E• AXIS Q1952-E• AXIS Q1961-TE/-XTE• AXIS Q2101-TE• AXIS Q3515-LV/-LVE• AXIS Q3517-LV/-LVE/-SLVE• AXIS Q3518-LVE• AXIS Q3527-LVE• AXIS Q3536-LVE• AXIS Q3538-LVE/-SLVE• AXIS Q3626-VE• AXIS Q3628-VE• AXIS Q3819-PVE• AXIS Q6010-E• AXIS Q6074/-E• AXIS Q6075/-E/-S/-SE• AXIS Q6078-E• AXIS Q6100-E• AXIS Q6135-LE• AXIS Q6215-LE
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AXIS OS release notes

Product groups

<ul style="list-style-type: none"> • AXIS M3057-PLR Mk II • AXIS M3067-P • AXIS M3068-P • AXIS M3077-PLVE • AXIS M3085-V • AXIS M3086-V/-V Mic • AXIS M3088-V • AXIS M3125-LVE • AXIS M3126-LVE • AXIS M3128-LVE • AXIS M3215-LVE • AXIS M3216-LVE • AXIS M3905-R • AXIS M4215-LV/-V • AXIS M4216-LV/-V • AXIS M4218-LV/-V • AXIS M4308-PLV • AXIS M4317-PLR/-PLVE • AXIS M4318-PLR/-PLVE • AXIS M4327-P • AXIS M4328-P • AXIS M5000/-G • AXIS M5074 • AXIS M5075/-G 	<ul style="list-style-type: none"> • AXIS P3268-LV/-LVE/-SLVE • AXIS P3715-PLVE • AXIS P3717-PLV • AXIS P3719-PLV • AXIS P3727-PLV • AXIS P3735-PLV • AXIS P3737-PLV • AXIS P3738-PLV • AXIS P3807-PVE • AXIS P3818-PVE • AXIS P3827-PVE • AXIS P3905-R Mk III • AXIS P3925-R/-LRE • AXIS P3935-LR • AXIS P4705-PLVE • AXIS P4707-PLVE • AXIS P4708-PLVE • AXIS P5654-E • AXIS P5654-E MK II • AXIS P5655-E • AXIS P5676-LE • AXIS P7304 • AXIS P7316 • AXIS P8815-2 • AXIS P9117-PV 	<ul style="list-style-type: none"> • AXIS Q6225-LE • AXIS Q6315-LE • AXIS Q6318-LE • AXIS Q8615-E • AXIS Q8752-E • AXIS Q9216-SLV • AXIS Q9307-LV • AXIS S3008 • AXIS S3008 Mk II • AXIS S3016 • AXIS V5925 • AXIS V5938 • AXIS XC1311 • AXIS XPQ1785 • AXIS XFQ1656 • D101-A XF P3807 • D201-S XPT Q6075 • ExCam XF P1377 • ExCam XF Q1645 • ExCam XF Q1785 • ExCam XPT Q6075 • F101-A XF P1377 • F101-A XF Q1785 • XF40-Q1785 • XP40-Q1785
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Products on LTS 2022 - 10.12

<ul style="list-style-type: none"> • AXIS A8207-VE • AXIS A8207-VE Mk II • AXIS D2050-VE • AXIS D2110-VE • AXIS D3110 • AXIS D4100-E • AXIS FA51/-B • AXIS FA54 • AXIS F9104-B Main Unit • AXIS F9111 Main Unit • AXIS F9114 Main Unit • AXIS F9114-B Main Unit • AXIS I8016-LVE • AXIS M1134 • AXIS M1135/-E • AXIS M1135/-E Mk II • AXIS M1137/-E • AXIS M1137/-E Mk II • AXIS M2035-LE • AXIS M2036-LE • AXIS M3057-PLVE • AXIS M3057-PLVE Mk II • AXIS M3058-PLVE • AXIS M3064-V • AXIS M3065-V • AXIS M3066-V • AXIS M3067-P • AXIS M3068-P • AXIS M3075-V • AXIS M3077-PLVE • AXIS M3085-V • AXIS M3086-V • AXIS M3088-V 	<ul style="list-style-type: none"> • AXIS M5074 • AXIS M5075/-G • AXIS M7104 • AXIS M7116 • AXIS P1367/-E • AXIS P1368-E • AXIS P1375/-E • AXIS P1377/-LE • AXIS P1378/-LE • AXIS P1445-LE • AXIS P1445-LE-3 • AXIS P1447-LE • AXIS P1448-LE • AXIS P1455-LE • AXIS P1455-LE-3 • AXIS P1467-LE • AXIS P1468-LE • AXIS P3227-LV/-LVE • AXIS P3228-LV/-LVE • AXIS P3245-V/-VE/-LV/-LVE • AXIS P3245-LVE-3 • AXIS P3247-LV/-LVE • AXIS P3248-LV/-LVE • AXIS P3255-LVE • AXIS P3265-V/-LV/-LVE • AXIS P3267-LV/-LVE • AXIS P3268-LV/-LVE • AXIS P3715-PLVE • AXIS P3717-PLV • AXIS P3719-PLV • AXIS P3727-PLV • AXIS P3807-PVE • AXIS P3818-PVE 	<ul style="list-style-type: none"> • AXIS Q1656/-LE/-B/-BE/-BLE • AXIS Q1659 • AXIS Q1700-LE • AXIS Q1715 • AXIS Q1785-LE • AXIS Q1786-LE • AXIS Q1798-LE • AXIS Q1951-E • AXIS Q1952-E • AXIS Q3515-LV/-LVE • AXIS Q3517-LV/-LVE/-SLVE • AXIS Q3518-LVE • AXIS Q3527-LVE • AXIS Q3536-LVE • AXIS Q3538-LVE • AXIS Q3819-PVE • AXIS Q6010-E • AXIS Q6074/-E • AXIS Q6075/-E/-S/-SE • AXIS Q6078-E • AXIS Q6100-E • AXIS Q6135-LE • AXIS Q6215-LE • AXIS Q6225-LE • AXIS Q6315-LE • AXIS Q6318-LE • AXIS Q8752-E • AXIS Q9216-SLV • AXIS S3008 • AXIS V5925 • AXIS V5938 • D101-A XF P3807 • D201-S XPT Q6075
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AXIS OS release notes

Product groups

<ul style="list-style-type: none"> • AXIS M3115-LVE • AXIS M3116-LVE • AXIS M3205-LVE • AXIS M3206-LVE • AXIS M3215-LVE • AXIS M3216-LVE • AXIS M4216-LV • AXIS M4216-V • AXIS M4308-PL • AXIS M5000/-G 	<ul style="list-style-type: none"> • AXIS P3925-R/-LRE • AXIS P3935-LR • AXIS P5654-E • AXIS P5655-E • AXIS P7304 • AXIS P7316 • AXIS P8815-2 • AXIS Q1615/-LE Mk III • AXIS Q1645/-LE • AXIS Q1647/-LE 	<ul style="list-style-type: none"> • ExCam XF P1367 • ExCam XF P1377 • ExCam XF Q1645 • ExCam XF Q1785 • ExCam XPT Q6075 • F101-A XF P1367 • F101-A XF P1377 • F101-A XF Q1785 • XF40-Q1785 • XP40-Q1785
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Products on LTS 2020 – 9.80

<ul style="list-style-type: none"> • AXIS Companion Bullet LE • AXIS Companion Bullet mini LE • AXIS Companion Cube L/-LW • AXIS Companion Dome mini LE • AXIS Companion Dome V/-WV • AXIS Companion Eye L/-LVE • AXIS Companion Eye mini L • AXIS Companion Recorder • AXIS D2050-VE • AXIS FA54 • AXIS M1045-LW • AXIS M1065-L/-LW • AXIS M1124/-E • AXIS M1125/-E • AXIS M1134 • AXIS M1135/-E • AXIS M1137/-E • AXIS M2025-LE • AXIS M2026-LE • AXIS M2026-LE Mk II • AXIS M3015 • AXIS M3016 • AXIS M3044-V/-WV • AXIS M3045-V/-WV • AXIS M3046-V • AXIS M3057-PLVE • AXIS M3058-PLVE • AXIS M3064-V • AXIS M3065-V • AXIS M3066-V • AXIS M3067-P • AXIS M3068-P • AXIS M3075-V • AXIS M3104-L/-LVE • AXIS M3105-L/-LVE • AXIS M3106-L/-LVE • AXIS M3106-L/-LVE Mk II • AXIS M3115-LVE 	<ul style="list-style-type: none"> • AXIS M3116-LVE • AXIS M3205-LVE • AXIS M3206-LVE • AXIS M4206-V/-LV • AXIS P1244 • AXIS P1245 • AXIS P1254 • AXIS P1264 • AXIS P1265 • AXIS P1275 • AXIS P1280-E • AXIS P1290-E • AXIS P1364/-E • AXIS P1365/-E Mk II • AXIS P1367/-E • AXIS P1368-E • AXIS P1375/-E • AXIS P1377/-LE • AXIS P1378/-LE • AXIS P1435-E/-LE • AXIS P1445-LE • AXIS P1445-LE-3 • AXIS P1447-LE • AXIS P1448-LE • AXIS P3224-V/-VE/-LV/-LVE Mk II • AXIS P3225-V/-VE/-LV/-LVE Mk II • AXIS P3227-LV/-LVE • AXIS P3228-LV/-LVE • AXIS P3235-LV/-LVE • AXIS P3245-V/-VE/-LV/-LVE • AXIS P3247-LV/-LVE • AXIS P3248-LV/-LVE • AXIS P3374-V/-LV • AXIS P3375-V/-VE/-LV/-LVE • AXIS P3717-PL • AXIS P3719-PL • AXIS P3807-PVE • AXIS P3925-R/-LRE 	<ul style="list-style-type: none"> • AXIS P3935-LR • AXIS P5655-E • AXIS P9106-V • AXIS Q1615/-E Mk II • AXIS Q1645/-LE • AXIS Q1647/-LE • AXIS Q1659 • AXIS Q1700-LE • AXIS Q1785-LE • AXIS Q1786-LE • AXIS Q1798-LE • AXIS Q1941-E • AXIS Q1941-E PT Mount • AXIS Q1942-E • AXIS Q1942-E PT Mount • AXIS Q3515-LV/-LVE • AXIS Q3517-LV/-LVE/-SLVE • AXIS Q3518-LVE • AXIS Q3527-LVE • AXIS Q3615-VE • AXIS Q3617-VE • AXIS Q6010-E • AXIS Q6074/-E • AXIS Q6075/-E/-S • AXIS Q6125-LE • AXIS Q6215-LE • AXIS Q8641-E • AXIS Q8642-E • AXIS Q9216-SLV • D101 XF P3807 • ExCam XF P1367 • ExCam XF Q1645 • ExCam XF Q1785 • F101 XF Q1785 • F101-A XF P1367 • XF40-Q1785 • XP40-Q1785 • XP40-Q1942
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Products on PSS 8.40

From March 2024, the following products will not receive any more releases since the hardware warranty and software maintenance period have expired.

AXIS OS release notes

Product groups

<ul style="list-style-type: none"> • AXIS P1405-LE Mk II • AXIS P1425-LE Mk II • AXIS P5514/-E • AXIS P5515/-E 	<ul style="list-style-type: none"> • AXIS Q1775/-E • AXIS Q3505-V/-VE/-SVE Mk II • AXIS Q3504-V/-VE
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The following products will continue to receive releases until the hardware warranty and software maintenance period expire.

<ul style="list-style-type: none"> • AXIS Companion 360 • AXIS M3047-P • AXIS M3048-P • AXIS M5525-E • AXIS P3915-R Mk II 	<ul style="list-style-type: none"> • AXIS P5624-E Mk II • AXIS P5635-E Mk II • AXIS Q6054/-E Mk III • AXIS Q6055/-C/-E/-S • AXIS Q6124-E 	<ul style="list-style-type: none"> • AXIS Q6154-E • AXIS Q6155-E • AXIS Q8685-E/-LE • D201-S XPT Q6055 • ExCam XPT Q6055
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The following products will have the later LTS tracks. Please upgrade to the latest version to increase the cybersecurity.

<ul style="list-style-type: none"> • AXIS Companion Bullet LE • AXIS Companion Cube L/-LW • AXIS Companion Dome V/-WV • AXIS Companion Eye L/-LVE • AXIS FA54 • AXIS M1045-LW • AXIS M1065-L/-LW • AXIS M1124/-E • AXIS M1125/-E • AXIS M2025-LE • AXIS M2026-LE • AXIS M2026-LE Mk II • AXIS M3015 • AXIS M3016 • AXIS M3044-V/-WV • AXIS M3045-V/-WV • AXIS M3046-V • AXIS M3057-PLVE • AXIS M3058-PLVE • AXIS M3104-L/-LVE • AXIS M3105-L/-LVE • AXIS M3106-L/-LVE • AXIS M3106-L/-LVE Mk II • AXIS P1244 	<ul style="list-style-type: none"> • AXIS P1245 • AXIS P1254 • AXIS P1264 • AXIS P1265 • AXIS P1275 • AXIS P1280-E • AXIS P1290-E • AXIS P1364/-E • AXIS P1365/-E Mk II • AXIS P1367/-E • AXIS P1368-E • AXIS P1435-E/-LE • AXIS P1445-LE • AXIS P1445-LE-3 • AXIS P1447-LE • AXIS P1448-LE • AXIS P3224-V/-VE/-LV/-LVE Mk II • AXIS P3225-V/-VE/-LV/-LVE Mk II • AXIS P3227-LV/-LVE • AXIS P3228-LV/-LVE • AXIS P3235-LV/-LVE • AXIS P3374-V/-LV • AXIS P3375-V/-VE/-LV/-LVE • AXIS P3904-R Mk II 	<ul style="list-style-type: none"> • AXIS P3905-R Mk II • AXIS P9106-V • AXIS Q1615/-E Mk II • AXIS Q1645/-LE • AXIS Q1647/-LE • AXIS Q1659 • AXIS Q1785-LE • AXIS Q1786-LE • AXIS Q1941-E • AXIS Q1941-E PT Mount • AXIS Q1942-E • AXIS Q1942-E PT Mount • AXIS Q3515-LV/-LVE • AXIS Q3517-LV/-LVE/-SLVE • AXIS Q3518-LVE • AXIS Q3615-VE • AXIS Q3617-VE • AXIS Q6125-LE • AXIS Q8641-E • AXIS Q8642-E • ExCam XF P1367 • ExCam XF Q1645 • F101-A XF P1367
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Products on PSS 6.50

The following products will not receive any more releases since the hardware warranty and software maintenance period have expired.

<ul style="list-style-type: none"> • AXIS F44 Main unit • AXIS M3006-V • AXIS M3007-P/-PV • AXIS P1353/-E • AXIS P1354/-E • AXIS P1357/-E • AXIS P1365/-E • AXIS P1405-E/-LE • AXIS P1425-E/-LE • AXIS P1427-E/-LE • AXIS P1428-E • AXIS M3027-PVE • AXIS P3214-V/-VE 	<ul style="list-style-type: none"> • AXIS P3354 • AXIS P3363-V/-VE • AXIS P3364-V/-VE/-LV/-LVE • AXIS P3365-V/-VE • AXIS P3384-V/-VE • AXIS P3707-PE • AXIS P3915-R • AXIS P3904-R • AXIS P3905-R/-RE • AXIS P5624-E • AXIS P5635-E • AXIS P8535 • AXIS P8804 	<ul style="list-style-type: none"> • AXIS Q1615/-E • AXIS Q1635/-E • AXIS Q1765-LE • AXIS Q1765-LE PT Mount • AXIS Q1931-E • AXIS Q1931-E PT Mount • AXIS Q1932-E • AXIS Q1932-E PT Mount • AXIS Q3505-V/-VE • AXIS Q6114-E • AXIS Q6115-E • AXIS Q6042/-E/-C/-S • AXIS Q6044/-E/-C/-S
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AXIS OS release notes

Product groups

<ul style="list-style-type: none">• AXIS P3215-V/-VE• AXIS P3224-LV/-LVE• AXIS P3225-LV/-LVE• AXIS P3353	<ul style="list-style-type: none">• AXIS P8804-2• AXIS Q1604/-E• AXIS Q1614/-E	<ul style="list-style-type: none">• AXIS Q6045/-E/-C/-S Mk II• AXIS Q8631-E• AXIS Q8632-E• AXIS Q8665-E/-LE
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The following product will continue to receive releases until the hardware warranty and software maintenance period expire.

<ul style="list-style-type: none">• AXIS F34• AXIS F41• AXIS F44 Dual Audio Input• AXIS M1145/-L• AXIS M3026-VE• AXIS M7011• AXIS P3367-V/-VE	<ul style="list-style-type: none">• AXIS P5414-E• AXIS P5415-E• AXIS Q2901-E• AXIS Q2901-E PT Mount• AXIS Q6000-E• AXIS Q6000-E Mk II• AXIS Q6128-E	<ul style="list-style-type: none">• AXIS Q7411• AXIS Q7436• AXIS Q8414-LVS• XF40-Q1765• XF40-Q2901• XF60-Q1765• XF60-Q2901• XP40-Q1765
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