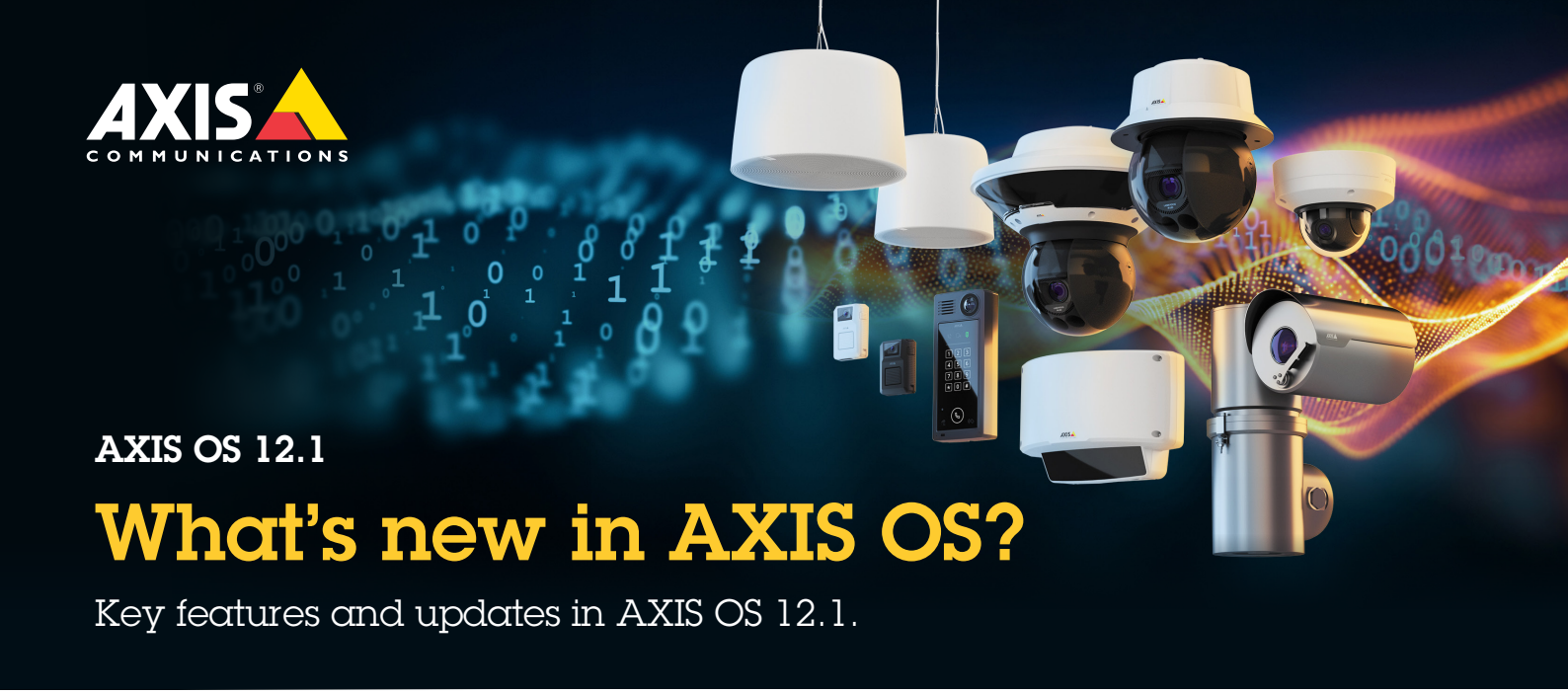

AXIS OS 12.1

What's new in AXIS OS?

Key features and updates in AXIS OS 12.1.

GENERAL

The list of Axis devices that can be updated to AXIS OS 12.1 active track release is available here.

Feature / update	Function	Value
Default video format configuration	In Plain Config, it's now possible to specify the default preference video format (H264 or MJPEG) in the web interface. E.g. MJPEG might be a better option in unstable networks as it doesn't rely on Iframes.	Saves time and increases simplicity.
Extended Dynamic text overlay modifiers	Dynamic text overlay modifiers display data in the live image and recording. Up to 16 text strings are possible to use simultaneously. This has been supported with the API but now it's also supported in the web interface and can be used with action rules.	Increases accessibility and ease of use.
Extreme Networks Fabric Attach™	Extreme Networks Fabric Attach™ is a technology for network automation such as device onboarding. Through the LLDP protocol, the Axis device can now communicate with Extreme Networks infrastructure. This means automated device onboarding, that is, the device is automatically moved and assigned into pre-configured network segments.	Reduces time and cost and simplifies configuration efforts for IT-teams when onboarding Axis devices onto networks.
AXIS Image Health Analytics *	Already released AI-based application for detection and notification of image quality issues such as tampering or image degradation.	Improved system efficiency and camera performance.

* 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 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, P1385/-E and P3267-LVE-MIC

CYBERSECURITY

Feature / update	Function	Value
OpenSSL support	OpenSSL is a software library for applications that provide secure communications over computer networks. The Open SSL support is now updated to latest version.	Increased cybersecurity
cURL	cURL is used to transfer data to and from a server. The cURL is now updated to latest version.	Increased cybersecurity
Patched vulnerabilities	Two vulnerabilities discovered through AXIS OS Bug Bounty program have been addressed and patched. CVE-2024-8160 and CVE-2024-8772.	Increased cybersecurity

BREAKING CHANGES

Feature / update	Function	Value
Basic authentication Digest authentication	Basic authentication is now pre-configured as preferred authentication method in HTTPS while Digest authentication will be used for HTTP. Previously it was Digest for both.	With this change, Axis devices will behave and align like most other IT-standardized solutions like websites and browsers.
Removal of IP-Filtering	The legacy IP-filtering functionality has been replaced with a more feature-rich Firewall service.	Increased cybersecurity. Allows IT-teams to fine-granular configure access to Axis devices according to IT-standards.
Disabled WebService Discovery (WS-Discovery) protocol	The WS- Discovery protocol is used to detect devices on the network and most commonly used together with ONVIF interfaces.	Increased cybersecurity. Reduces the network footprint of the device and shortens the hardening configuration for IT-teams and system integrators.
Replaced vFAT with Ext4 formatting for SD cards	vFAT is an old and obsolete feature. Ext4 is more widely used and uses better formatting technology.	Eliminates the risk of misconfiguration and confusion regarding the SD card format.

TERMS

AXIS OS long-term support (LTS) track
The focus of the AXIS OS long-term support (LTS) track is to keep the products well integrated with third-party equipment or software and still get necessary bug fixes and cybersecurity updates. An LTS track has a fixed feature set, and a new track is issued every two years and maintained for five years. No new products or features are added to the LTS track.

AXIS OS active track
The AXIS OS active track is the most updated and feature-progressive track of AXIS OS and is suitable for customers who want access to the newest features and improvements. New products are launched on this track which means the most immediate access to any new features and updates.

AXIS OS product-specific support (PSS) track
The AXIS OS product-specific support (PSS) track is a rare track for when a product requires support after an LTS track expires. The products on this track continue to receive necessary bug fixes and cybersecurity updates. Each product sits on its own track and the track is not connected to other product tracks. Non-AXIS OS products have similar support tracks.

Breaking change
A change in functionality that can break or disrupt the previously known and intended behavior. Typically implemented to improve usability and increase security.

Software Bill Of Material (SBOM)
An inventory list of all the components that make up a software resource.

Common Vulnerabilities and Exposures (CVE)
A public database that identifies and catalogs known cybersecurity vulnerabilities. All entries are scored using the Common Vulnerability Scoring System (CVSS) to evaluate the threat level.

Bug bounty program
Axis run bug bounty programs together with Bugcrowd which is a crowdsourced setup that encourages independent security researchers to discover and report vulnerabilities in Axis products. The bug bounty programs reinforce Axis efforts to proactively identify, patch, and disclose vulnerabilities. All vulnerabilities found via the bug bounty program receive CVE IDs and are thus publicly shared.

ONVIF
ONVIF is an open industry forum that provides and promotes standardized interfaces for effective interoperability of IP-based physical security products.

LINKS

RELEASE NOTES | VIDEOS | WEBPAGE

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