AXIS PARTNER SOLUTION



Technology Integration Partner

BITSWARE

Scalable network audio management

with Bitsware

One platform. Smarter Communication. Powered by Axis.

On a large campus or an operational site, communication only works if it reaches the right place at the right time. Yet as buildings, users, and workflows multiply, traditional paging environments become harder to expand, schedule, troubleshoot, and audit. What began as a simple PA system turns into a patchwork of legacy equipment and manual workarounds — exactly when clear, immediate communication matters most.

Axis Communications, a global leader in network video, audio, and IoT solutions, and Bitsware, a Taiwan-based software and systems integration specialist, have partnered to answer this challenge. AudioCast HQ combines centralized on-premises software with Axis network audio to create a single, scalable, and traceable communication platform — one place to manage every zone, message, and schedule across a site.

A partnership-driven solution that delivers the right message to the right zone – live, scheduled, multilingual, and traceable – across every space you need to reach.



Navigating today's communication challenges

Facilities and operations leaders are asked to keep communication clear and immediate across ever-larger, more complex sites.

Common issues include:

- Paging systems that are hard to expand as buildings, zones, and users grow
- Manual scheduling and troubleshooting across a mix of legacy PA equipment
- Limited zone control — messages reaching the whole site when only one area needs them
- No clear record of who broadcast what, when, and to which zone
- Multilingual sites where a single-language announcement leaves people behind
- Temporary events and areas that existing fixed paging can't easily accommodate

Traditional paging leaves gaps — not because the speakers can't carry sound, but because nothing ties them into one manageable, traceable workflow.

Communication, made manageable: who is Bitsware?

Bitsware Ltd. is a Taiwan-based software and systems integration company focused on making complex site systems easier to operate and maintain. Its flagship platform, AudioCast HQ, turns a network audio estate into a single, browser-managed communication system — built for the realities of campuses, ports, and large operational sites.

As an Axis Technology Integration Partner, Bitsware combines AudioCast HQ with selected Axis network audio products to deliver scalable, on-premises communication workflows. Operating primarily in Taiwan with project-based support across Asia-Pacific, Bitsware designs for deployments that keep operational data and workflows local while scaling to the largest sites.

AudioCast HQ by Bitsware: your unified communication platform

AudioCast HQ transforms compatible Axis network audio endpoints into a unified, on-premises communication platform. From one browser-based interface, operators manage devices and zones, deliver live or prerecorded messages, automate schedules, and generate multilingual text-to-speech (TTS) for targeted areas. Role-based access, broadcast priorities, device status, and event history keep operations visible and controlled.

Designed for projects of up to 1,000 devices and 100 zones with appropriate server and network sizing, the solution supports scalable deployment across campuses, ports, transportation hubs, enterprise sites, and industrial facilities — while keeping operational data and workflows on the customer's own network.



Inside AudioCast HQ – key pillars of innovation

Axis network audio devices
Reliable paging consoles and speakers — horn, cabinet, projector, display, and strobe — assigned to zones by building, floor, terminal, outdoor area, or operational function.

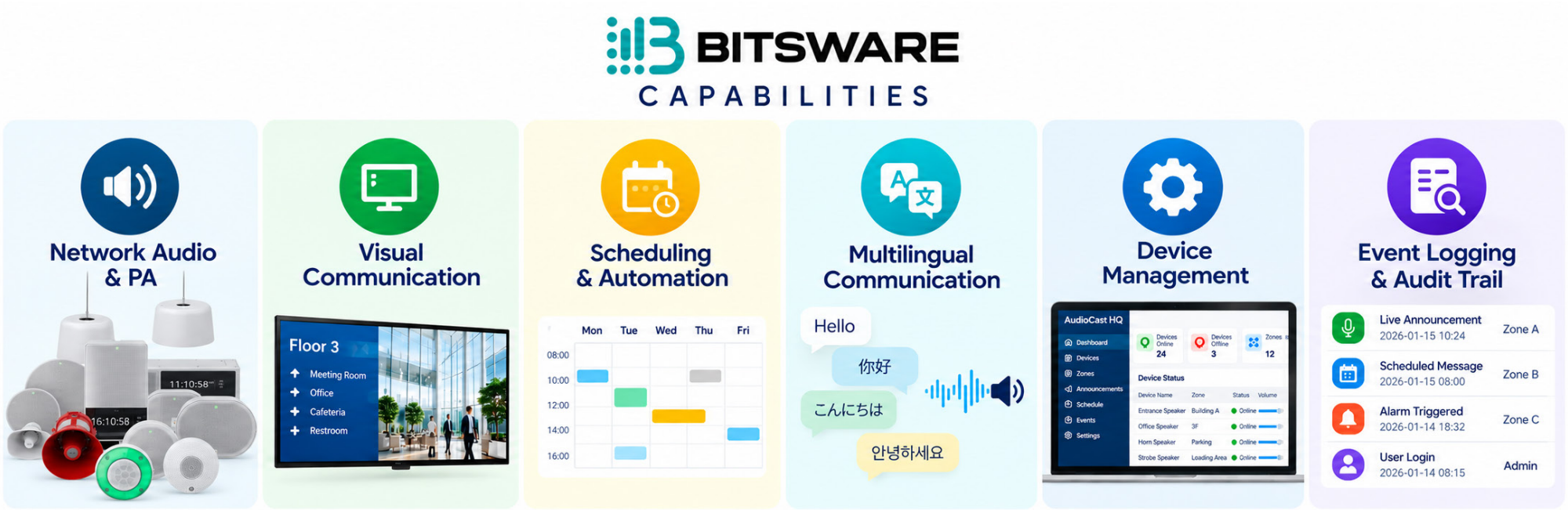
One control point
A single browser-based interface to manage every device, group, schedule, piece of content, and status across the whole site.

Live and scheduled broadcasting
Combine live paging, prerecorded audio, and recurring schedules so both routine and urgent messages reach their zone on time.

Multilingual TTS
Generate text-to-speech announcements in multiple languages for targeted zones, so no audience is left behind.

QR temporary broadcasting
Stand up broadcasting for temporary events and areas via QR access, without reconfiguring the fixed system.

Controlled and traceable operations
Role-based access, broadcast priorities, device status, and full event history for controlled, auditable day-to-day operation



Unlock the full potential of your Axis audio estate

Zone and device management

- Organize Axis paging consoles and speakers into zones and groups by building, floor, or function
- Manage every device, group, and piece of content from a single browser-based interface
- Monitor device status across the estate so issues surface before a broadcast fails
- Scale from a single building to projects of up to 1,000 devices and 100 zones

Live, scheduled and multilingual messaging

- Page live to any zone, or play prerecorded audio, from the browser
- Automate recurring announcements — bells, routine notices, shift changes — on a schedule
- Generate multilingual TTS announcements for targeted zones in the moment
- Stand up QR temporary broadcasting for events and areas outside the fixed setup

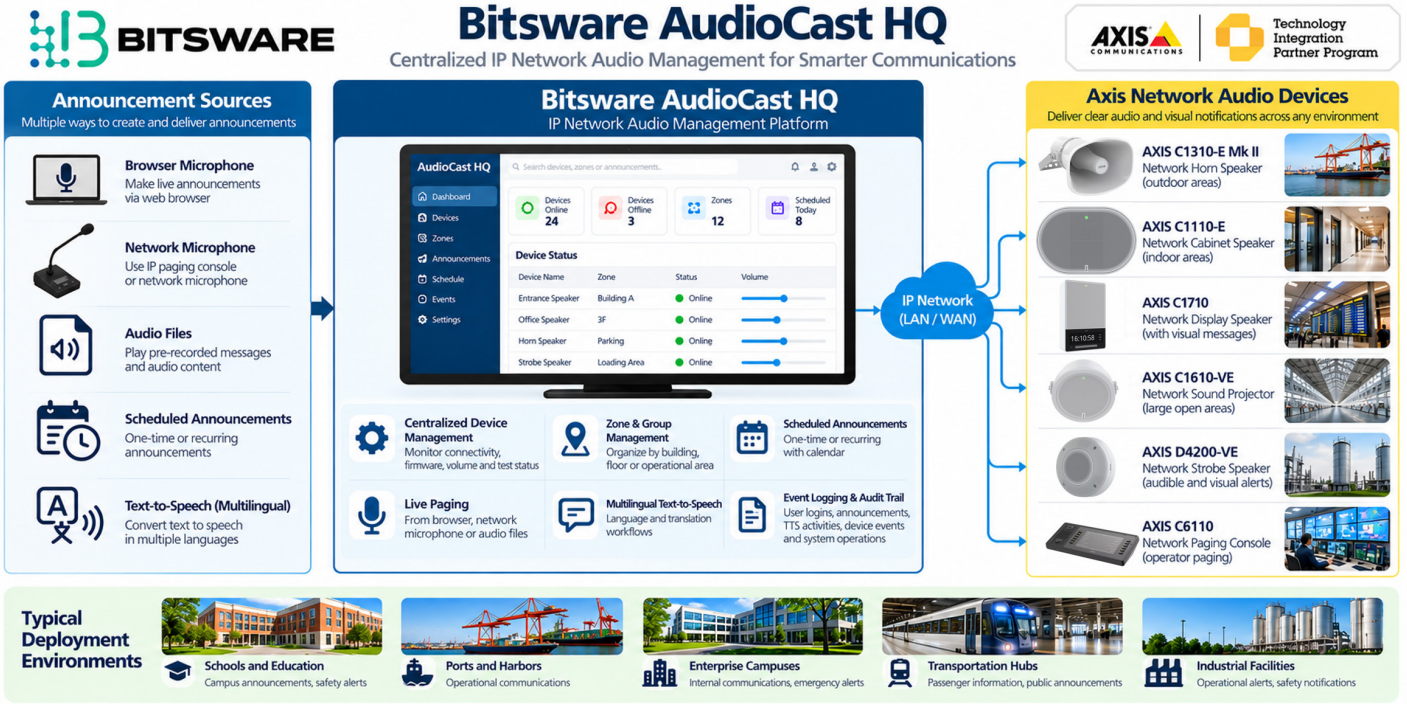
Control, priority and traceability

- Assign role-based access so the right people control the right zones.
- Set broadcast priorities so urgent messages override routine ones
- Review full event history — who broadcast what, when, and to which zone
- Keep operational data and workflows on the customer's own on-premises network

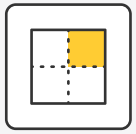
Broadcast actions

AudioCast HQ allows flexible configuration of how a message is delivered. Typical broadcast actions include:

1. Live paging to one zone, a group of zones, or the whole site
2. Playing prerecorded audio or a scheduled announcement to targeted zones
3. Generating a multilingual TTS message and broadcasting it in the moment
4. Logging every broadcast to event history for review and audit



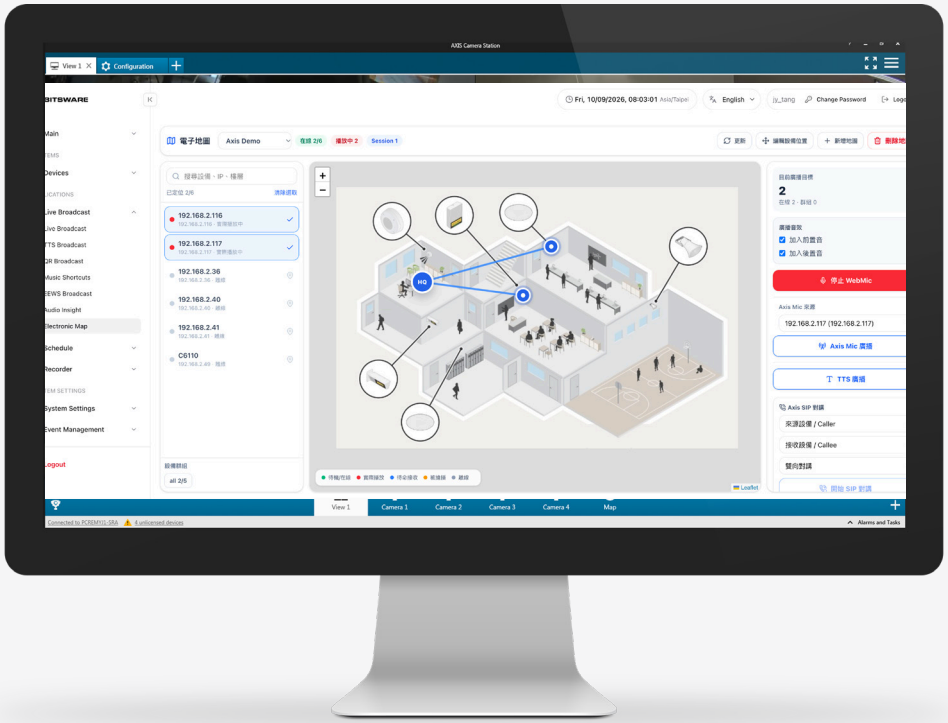
Your success, measured – benefits at a glance

	Benefit	Impact
	Scale with confidence	Designed for projects of up to 1,000 devices and 100 zones with appropriate server and network sizing
	One control experience	Devices, zones, schedules, and content managed from a single interface — less complexity as sites grow
	Reach the right area faster	Live paging, prerecorded audio, schedules, and multilingual TTS from one operational workflow
	No audience left behind	Multilingual TTS delivers the same message clearly across language groups
	Controlled, traceable operations	Role-based access, priorities, and full event history keep every broadcast accountable
	Data stays on-premise	Operational data and workflows remain on the customer's own network

The engineering behind AudioCast HQ

How it works with Axis

AudioCast HQ runs on an on-premises server and connects to compatible Axis network audio products across the site LAN/VLAN. Axis paging consoles and speakers are assigned to zones and groups based on buildings, floors, terminals, outdoor areas, or operational functions. Authorized users access a web interface for live paging, scheduled audio, multilingual TTS, QR temporary broadcasting, and event review. The architecture can support multi-network and multicast designs when required. With appropriate server, network, and project sizing, the platform is designed for deployments up to 1,000 devices and 100 zones.



AudioCast HQ dashboard: one control point for currently-playing and upcoming broadcasts, recent activity, and live system status

Techhnical specification

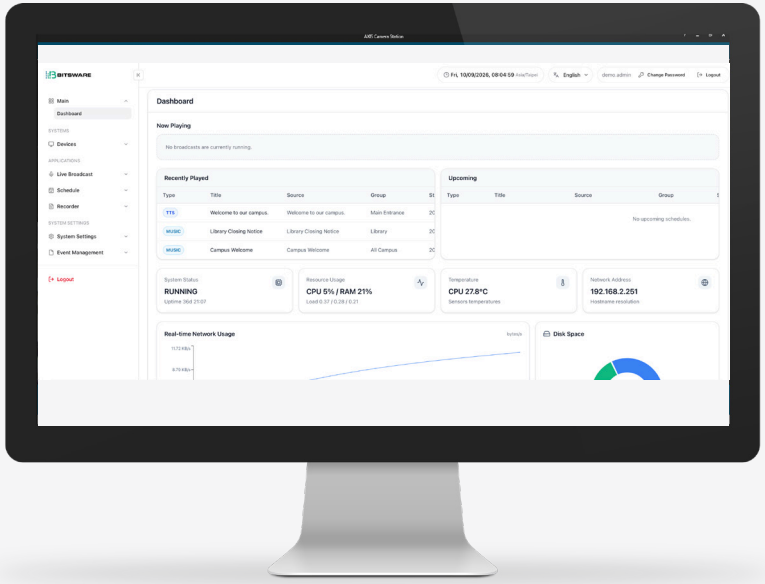
- **Axis devices supported**
  Compatible Axis network audio products — paging consoles and horn, cabinet, projector, display, and strobe speakers for indoor and outdoor coverage.
- **Deployment model**
  On-premises server connected to Axis network audio over the site LAN/VLAN; supports multi-network and multicast designs when required.
- **Scale**
  Designed for deployments of up to 1,000 devices and 100 zones with appropriate server and network sizing.
- **Interface**
  Browser-based web interface for live paging, scheduled audio, multilingual TTS, QR temporary broadcasting, and event review.
- **Content and schedulin**
  Live paging, prerecorded audio, recurring schedules, and multilingual text-to-speech.
- **Control and audit**
  Role-based access, broadcast priorities, device status monitoring, and full event history.
- **Data residency**
  Operational data and workflows kept local on the customer's on-premises network.



Deploying AudioCast HQ is streamlined, with a phased approach tailored to each site:

- **Assessment and planning**
  A site-specific review of buildings, zones, coverage needs, and user roles, with Axis network audio products selected to suit indoor and outdoor areas.
- **Installation and integration**
  The AudioCast HQ server is installed on-premises and connected to Axis network audio across the site LAN/VLAN; devices are assigned to zones and groups.
- **Configuration and testing**
  Schedules, TTS, priorities, and role-based access are configured, then tested across zones to validate coverage and workflow.
- **Training and support**
  Operators are trained on the browser-based interface and day-to-day workflows, with event history supporting ongoing review and audit.

The solution scales from a single building to multi-site operations, and keeps operational data on-premise for sites with local data requirements.





Real-world impact – where AudioCast HQ delivers

Schools and education campuses: campus network audio

Challenge

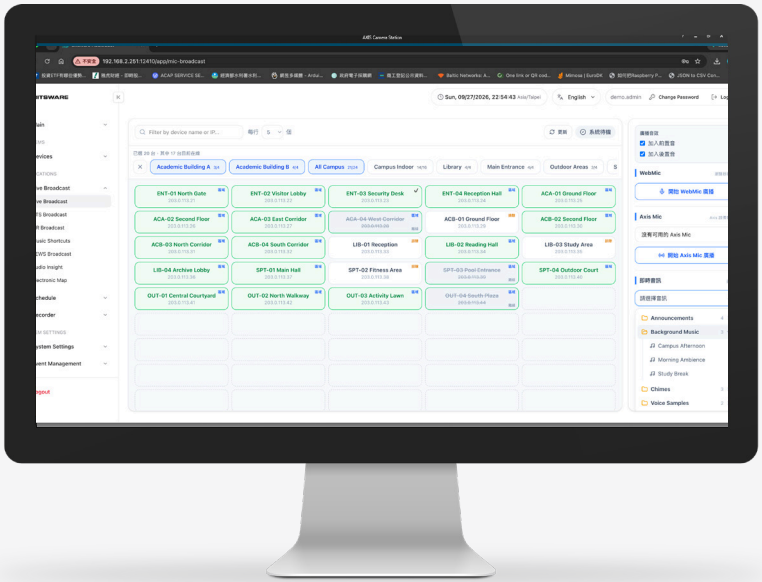
Schools often operate a mix of legacy PA equipment, changing schedules, multiple buildings, and different user roles. As the site evolves, expansion, troubleshooting, and consistent zone control become increasingly difficult..

Solution

AudioCast HQ brings zones, recurring schedules, multilingual TTS, live paging, and event history into one browser-based workflow. Representative school deployments manage about 50–150 devices and 10–30 groups across classrooms, corridors, playgrounds, and whole-campus announcements, with Axis network audio products selected to suit indoor and outdoor coverage.

Functionalities used

Zones and groups, schedule automation, live paging, multilingual TTS, device status and event history.



AudioCast HQ electronic campus map: Axis audio devices placed by zone across buildings and outdoor areas, selectable for targeted broadcasting.



Ports and harbors: multi-zone broadcasting

Challenge

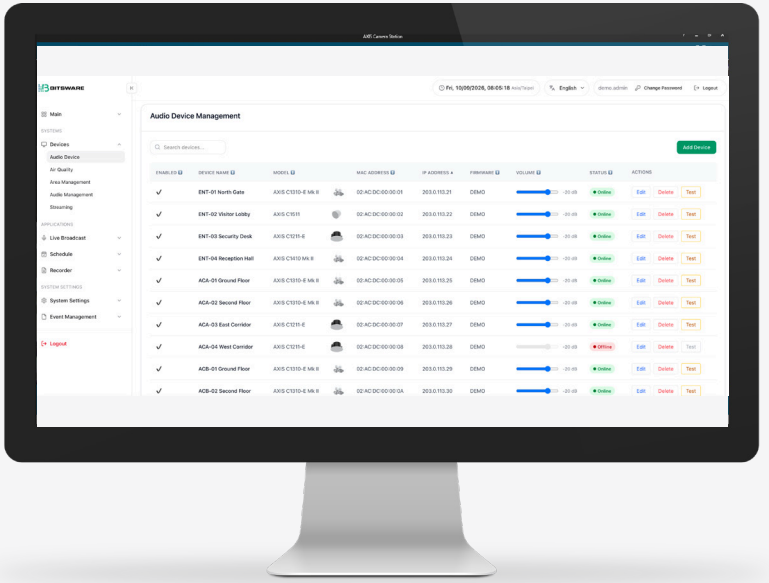
Ports and harbors need clear communication across terminals, docks, and outdoor areas while supporting multiple departments, changing zones, and temporary operations.

Solution

AudioCast HQ coordinates multi-zone live paging, multilingual TTS, QR temporary broadcasting, priorities, and multi-user access with compatible Axis network audio endpoints. A representative harbor deployment uses 30+ audio devices across 10+ zones with separate indoor and outdoor coverage — with Axis horn, projector, cabinet, display, or strobe speakers selected to each location and notification need.

Functionalities used

Multi-zone live paging, multilingual TTS, QR temporary broadcasting, role-based access and priorities, device status and event history.



AudioCast HQ multilingual TTS and multi-zone broadcasting: compose a message, choose languages, and target specific zones or the whole site.

Enterprise, transport and industrial sites: scalable site-wide communication

Challenge
Enterprise campuses, transportation hubs, and industrial facilities must coordinate routine and urgent messaging across large, mixed indoor and outdoor environments without a tangle of separate systems. .

Solution
AudioCast HQ unifies the Axis network audio estate under one browser-based workflow — live and scheduled messaging, multilingual TTS, priorities, and traceable event history — scaling to up to 1,000 devices and 100 zones while keeping operations local and auditable.

Functionalities used
zone and device management, live and scheduled broadcasting, multilingual TTS, role-based access and priorities, event history.

With AudioCast HQ, network audio becomes a managed communication platform — helping teams reach the right zone faster, operate with confidence, and account for every broadcast.



Why choose Axis and Bitsware AudioCast HQ?

Trusted expertise
Axis's reliable, open network audio portfolio combined with Bitsware's proven AudioCast HQ communication platform.

One control experience
Devices, zones, schedules, and content managed from a single interface — reducing operational complexity as sites grow.

Flexible and scalable
From a single building to projects of up to 1,000 devices and 100 zones, matched to indoor, outdoor, and audio-visual notification needs.

Controlled and traceable
Role-based access, priority handling, and full event history keep every broadcast accountable.

On-premise by design
Operational data and workflows stay on the customer's own network.

For more detailed information or to explore how our solution can be tailored to your specific needs, visit the Bitsware product overview or review the case studies.



The power of network audio

- Clear, consistent sound across every zone
- Remote, browser-based management
- Easy, future-proof integration
- Scalability and flexibility
- Cost-effectiveness
- Distributed intelligence
- Proven technology

About Axis Communications

Axis enables a smarter and safer world by improving security, safety, operational efficiency, and business intelligence. As a network technology company and industry leader, Axis offers video surveillance, access control, intercoms, and audio solutions. These are enhanced by intelligent analytics applications and supported by high-quality training.

Axis has around 5,000 dedicated employees in over 50 countries and collaborates with technology and system integration partners worldwide to deliver customer solutions. Axis was founded in 1984, and the headquarters are in Lund, Sweden.

About Bitsware

Bitsware Ltd. (力元軟體有限公司) is a Taiwan-based software and systems integration company focused on making complex site systems easier to operate and maintain. Its AudioCast HQ platform brings Axis network audio into one on-premises control system for live paging, scheduled announcements, multilingual TTS, and zone-based communication across campuses, ports, transportation hubs, enterprise sites, and industrial facilities. Operating primarily in Taiwan with project-based support for Asia-Pacific deployments, Bitsware is an Axis Technology Integration Partner. Learn more at www.bitsware.com.tw.

This solution note is for informational purposes only and the information contained herein is subject to change without notice. Device and zone capacities, audio coverage, and scheduling behaviour depend on factors such as server and network sizing, site layout, speaker selection, and configuration. Stated capacities of up to 1,000 devices and 100 zones, and the representative school and harbor deployment figures, are design targets and examples, not guarantees for every environment. AudioCast HQ should be deployed in accordance with applicable regulations and used in conjunction with appropriate operational procedures. Bitsware and Axis Communications disclaim any liability for errors or omissions.

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