Advantages of using network video to improve safety and security onboard

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Why onboard video surveillance?

- > Increased pressure to provide a safe and secure transportation environment
- > Need to reduce costs for vandalism
- > To meet fraudulent insurance claims
- > Valid proof for incidents onboard
- > Analytics to optimize resources usage





Onboard surveillance challenges – analog CCTV

- > Image quality
 - Stored images have low resolution
 - Unclear images of moving objects and persons
 - Identification challenges
- > Installation costs
 - Several and dedicated cables to each camera
 - Limited flexibility and scalability
- > Complex handling of stored video
 - Sharing
 - Viewing
 - Searching
 - Analysis





Image quality benefits – Network cameras

Higher resolution

- > Clear images with a high level of detail
- > Provides answers to "Who?" and "What?"

Progressive scan technology

- > Scans the whole image at the same time
- > Ensures sharp images of moving objects

High quality of stored images

- > High resolution
- > Higher capture rates
- > Maintained quality over time





Other advantages of network video

- > PoE Power over Ethernet
- > Flexible recording software and hardware
- > Integration benefits
- > Wireless communication
- > Scalability
- > Installation and maintenance
- > Intelligent Video





Axis digital camera offer

AXIS 209 fixed dome network cameras

- > Especially developed for trains and buses
- > Up to megapixel resolution
- > Vandal-resistant
- > Vibration, moisture and dust resistant
 - EN50155
 - IP66
- > Discreet & small





Installation benefits – Axis network cameras

Less cables and less work

- > Only one cable
- > Power & video

Scalable, flexible & future-proof

- > Cost-efficient upgrades
- > Based on open standards





Video handling benefits – Axis network cameras

- > Networked system, just like a computer network
 - Centralized management
- > Live viewing possibilities
- > Automatic storage
- > Easy sharing
- > Quick and simple search
 - Via computer instead of tapes
 - Time or event





Additional benefits – built in intelligence

- > Tampering alarm
 - Automatic alert when
 - Covered
 - Redirected
 - Spray-painted
 - Ensures continuous operation
 - Saves valuable time
- > Passenger counting





Several large-scale installations in place

Buses

SL (Sweden) – More than 10000 cameras in 2500 buses in Stockholm with 4-5 cameras and a mobile NVR in each

Rail

- > Moscow metro (Russia) 2 lines of 12 so far, 3000 cameras and video servers
- > SBB (Switzerland) 5000 cameras in commuter trains in Zürich
- > NSB (Norway) 3200 cameras on intercity trains in Oslo
- > Sydney's new Waratah train suburban fleet -7,000 network cameras





Network video in transportation





Summary – what's in it for you?

- > High image quality
 - Reduce vandalism
 - Increase perceived security by passengers and staff
- > Cost-efficient installation
- > Simplified image handling
 - Increased resource utilization







Thank you!

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