Video Surveillance & Analytics

Video Surveillance Analytics – 16th June – 12:00 - 12:50
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Security Solutions Theatre
Open Application Development Platforms

> Intelligence at the edge

> Processing power analysis in a network camera or encoder

> Advancements in analytics and a reduction in bandwidth
  – Reduce cost and complexity
What is intelligence at the edge?
Network camera performance evolution

- **1996**: 0.1 MP at 1 fps
- **2000**: 0.4 MP at 30 fps
- **2004**: 2 MP at 30 fps
- **2008**: 5 MP at 60 fps
- **2012**: 10 MP at 120 fps
- **2014**: 30 MP at 120 fps
- **2018**: 300 MP at 120 fps

New functionality - ACAP
The ARTPEC chip (DSP)

- Image Quality processing
- Video Encoding

CPU

ACAP
Why is it better with video analytics at-the-edge?
Wide range of applications

Security applications
Use video data to improve surveillance system efficiency and facilitate investigation.

Business management applications
Use video data to improve business efficiency

Camera feature plug-ins
Add features beyond product core functionality
> Evolution of the Processor
- Single to dual core CPUs
- Increase in clock frequency (400MHz)
- Increase in Mem bandwidth 400 to 1300+ Mbps
- Encoding – MJPEG to H264/5

> Performance
- 8 times increase over 3 generations of processor
Processing video data within the camera and video encoder itself
Add-ons for security applications

Streaming event metadata and get only required video
Camera feature plug-ins

Add-on functionality to meet specific needs
Benefits using applications at the edge

> Large retail chain
  – Break-ins – night working staff
> Theft – Damage – Safety & Security

> Real Time Alerts
> Deterrence
> Forensic recording
> False alarms
> Cost Savings
> Increased perception of safety
What's available today

> ACAP support in more than 100 Axis video products

> Over 70 applications from Axis and Partners
Long-term roadmap for platform development

- Enable new type of applications
- Focus on ease of integration, deployment and distribution
- Supported by continuous development of more powerful hardware