MasterFormat 2016 Division 28

Video, Storage, & Networking

Offered By:

SIA
SECURITY INDUSTRY ASSOCIATION

Supported By:

PELCO
by Schneider Electric

Pivot 3

Agenda

- Certification Credits
- Background and Preliminary Comments
- MasterFormat 2016
  - Division 28 Video Surveillance
  - Division 28 Servers, Workstations, and Storage
  - Division 28 Network Communications Equipment
  - Complementary Areas
- Q & A
- Wrap Up

Certification Credits (1 hour)

- PSP
  - 02/01/04 – Applicable Codes, Standards, and Guidelines
- CPP
  - 02/06/01 – Key Concepts in the Preparation of Requests for Proposals and Bid Reviews/Evaluations
  - 05/02/04 – Bid Package Development and Evaluation Process
- Procedure for requesting certificate at end of today's webinar

Background

- June 2014 – SIA outreach to CSI
- Invitation to Participate (100+ responses)
- Technical Working Groups Established
- 3 iterations with CSI Checkpoints
- Circulation for comments
- 4/15/15 Submission to CSI
- 4/15 – 9/15 – CSI Evaluation and acceptance
- 3/31/16 – MasterFormat 2016 Issued

Realignment and Definition

MasterFormat 2014 Division 28 Main Categories

- 28 10 00 Electronic Access Control and Intrusion Detection
- 28 20 00 Electronic Surveillance
- 28 30 00 Electronic Detection and Alarm
- 28 40 00 Electronic Monitoring and Control

Realignment and Definition

MasterFormat 2016 Division 28 Main Categories

- 28 10 00 Access Control
- 28 20 00 Video Surveillance
- 28 30 00 Security Detection, Alarm, and Monitoring
- 28 40 00 Life Safety
- 28 50 00 Specialized Systems

28 05 00 Common Work Results

- 28 05 16 Servers, Workstations, and Storage …
- 28 05 31 Communications Equipment …

Rene Rieder Jr – Arup

28 20 00 Video Surveillance

- Prior name for section – “Electronic Surveillance”
  - Included video surveillance and Electronic Personal Protection systems
- Renamed section – “Video Surveillance”

28 20 00 Video Surveillance

- Prior Level 2 Title – "Video Surveillance Remote Devices and Sensors"
  - Broad, catch-all title
  - What should this include:
    - Cameras, housings, mounts, illuminators
    - ~~Motion detectors, radar~~
- Renamed to "28 21 00 – Surveillance Cameras"

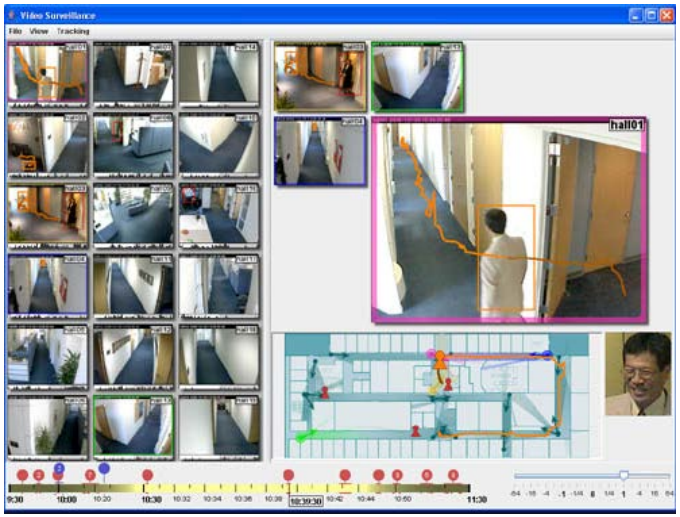
28 20 00 Video Surveillance

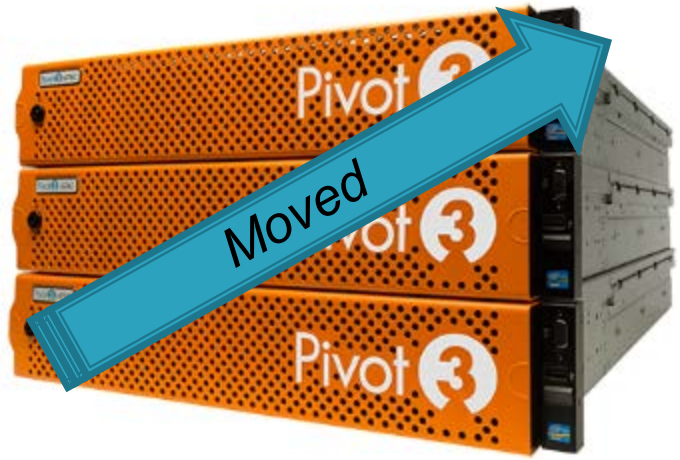
- **28 21 00 Surveillance Cameras**
  - 28 21 11 Analog Cameras
  - 28 21 13 IP Cameras
    - 28 21 13.11 Panoramic IP Cameras
  - 28 21 15 Specialty Cameras
  - 28 21 17 Camera Housings
  - 28 21 19 Camera Mounts
  - 28 21 21 Illuminators

Not included in 2014 MasterFormat

28 20 00 Video Surveillance

- **28 23 00 Video Management System**
  - 28 23 11 Video Management System Analytics
  - 28 23 13 Video Management System Interfaces

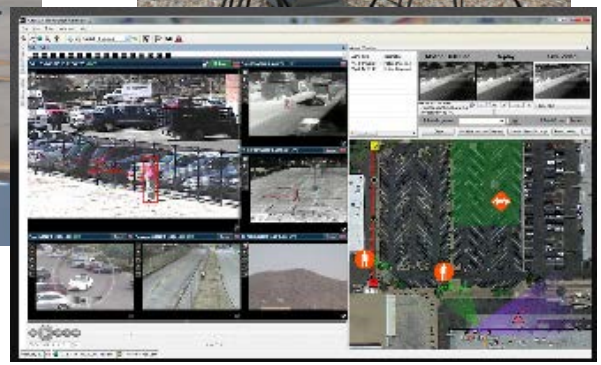




Servers/Recorders moved to Common Works

28 20 00 Video Surveillance

- 28 25 00 Video Surveillance Positioning Equipment
- 28 27 00 Video Surveillance Sensors



Video Surveillance Final Layout

- 28 20 00 **Video Surveillance**
  - 28 21 00 Surveillance Cameras
  - 28 23 00 Video Management System
  - 28 25 00 Video Surveillance Positioning Equipment
  - 28 27 00 Video Surveillance Sensors

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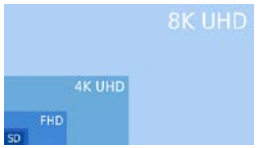
Brandon Reich-Pivot3

Data Explosion

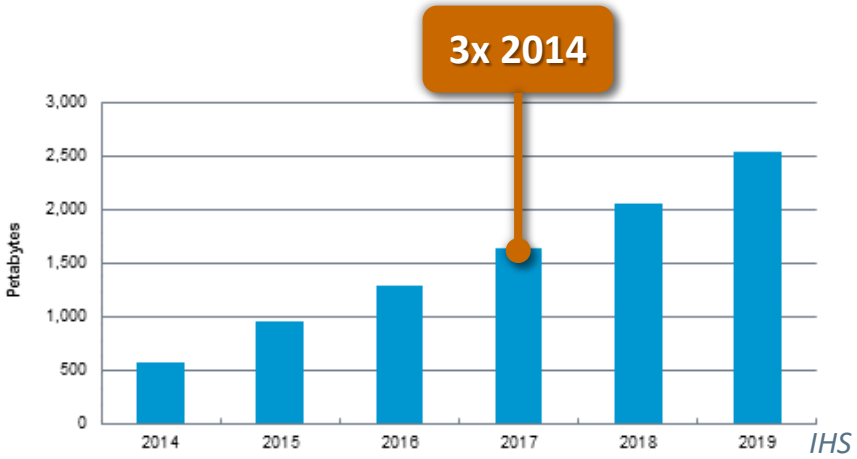
Higher Resolution



New Use Cases

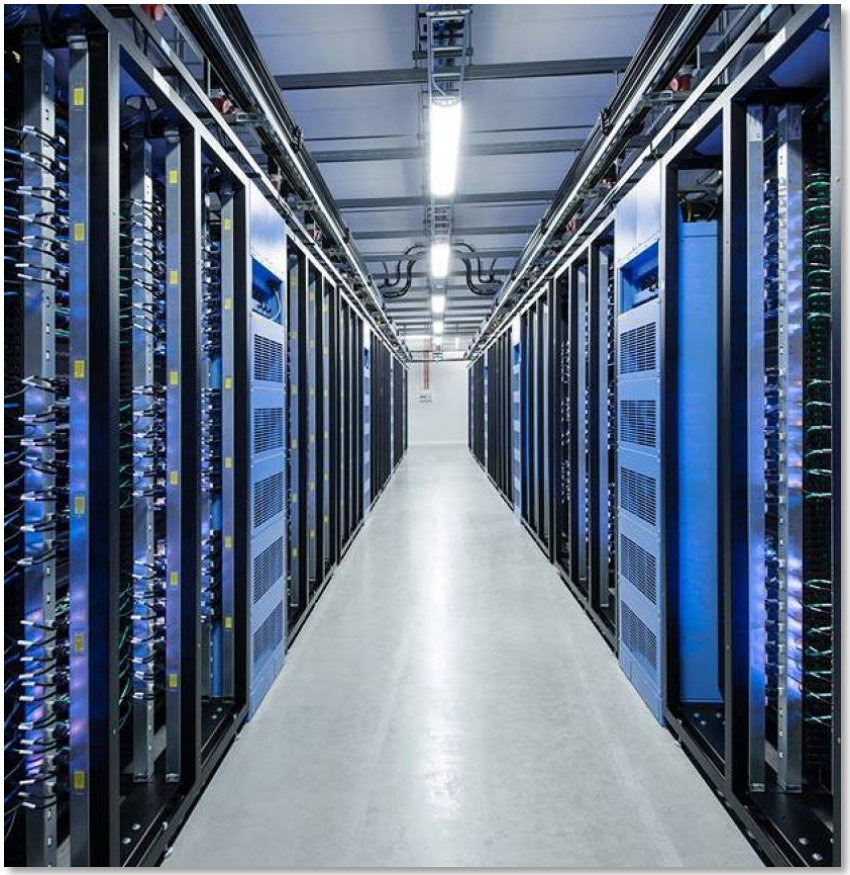
Retention

Prices



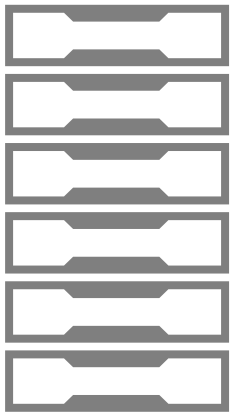
50% of the data produced by the Internet of Things in 2020 will come from Video Surveillance

Paradigm Shift



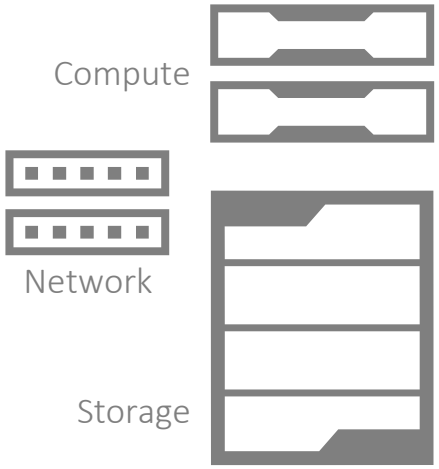
Infrastructure Progression

1990's
Direct Attached Storage



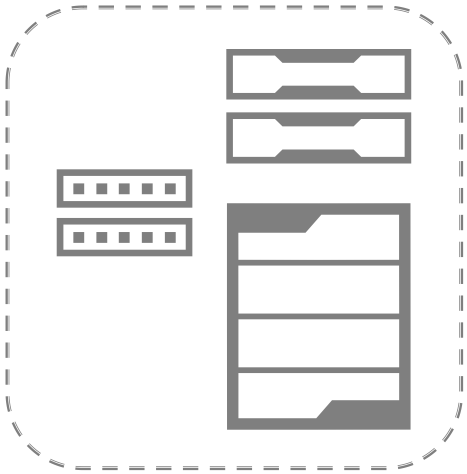
Local Storage and Compute
Individual Servers
Fixed Capacity
Basic Fault Tolerance

2000's
Shared Storage (SAN/NAS)



Shared Storage
Virtualized Servers
Lower Costs
High Availability

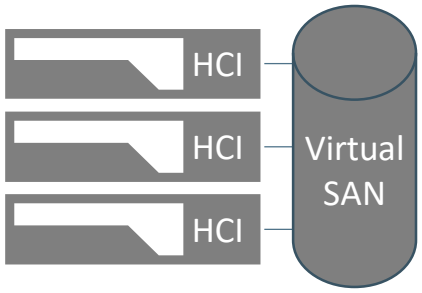
2010's
Converged Infrastructure



Engineered Interoperability
Pre-tested and Configured
Bundled Pricing
Simplified Management

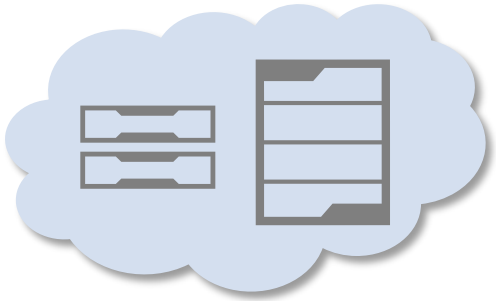
Emerging Infrastructure Options

Software-Defined Infrastructure



Virtual SAN + Virtual Server
Commodity Hardware
Simplified Management
Modular Scalability

Cloud



Hosted Compute and/or Storage
Consumption-Based Pricing
Dynamic Scalability

Mobility and Workstation Virtualization

Remote SOC
Situational Awareness
Virtual Desktop Infrastructure
Public-Private Partnerships

Ray Coulombe – SecuritySpecifiers

28 05 31 Communications Equipment …

- 28 05 33 Safety and Security Network Communications Equipment
- 28 05 35 Security Data Communications Wireless Transmission Equipment

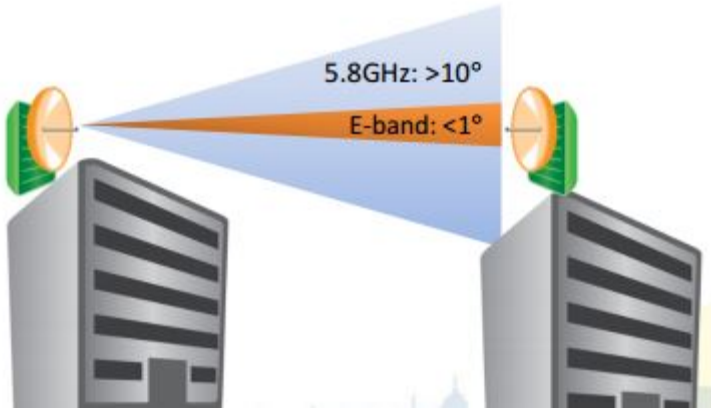
… for Electronic Safety and Security

Network Equipment

- 28 05 33 Safety and Security Network Communications Equipment
  - 28 05 33.11 [Security Data Communications] Firewalls
  - 28 05 33.13 [ ] Routers
  - 28 05 33.13 [ ] Power-Over-Ethernet Switches
  - 28 05 33.15 [ ] Non-Power-Over-Ethernet Switches
  - 28 05 33.13 [ ] Media Converters

Wireless

- 28 05 35 Security Data Communications Wireless Transmission Equipment
  - 28 05 35.11 Microwave Transmission Equipment
- 28 05 37 Security Voice Communications Distributed Antenna System
  - 28 05 37.11 Bi-Directional Amplifiers
  - 28 05 37.13 Repeaters
  - 28 05 37.15 Remote Repeaters



Wireless

- 28 05 39 Antennas
  - 28 05 39.11 Donor Antennas
  - 28 05 39.13 Multi-Band Antennas
  - 28 05 39.15 Band Specific Antenna
  - 28 05 39.17 Radiating Coaxial Cab
  - 28 05 39.19 Other Antennas

Wireless

- 28 05 41 Signal Controllers
  - 28 05 41.11 Splitters
  - 28 05 41.13 Directional Couplers
- 28 05 43 Security Voice Communications Private Mobile Radio System
  - 28 05 43.11 Base Station
  - 28 05 43.13 Handheld Radio

Cyber

- 28 05 11 Cyber Security Requirements for Electronic Safety and Security

Cabling

- **27 15 00 Communications Horizontal Cabling**
  - 27 15 01 Communications Horizontal Cabling Applications
    - 27 15 01.11 [Conductors and Cables] for Electronic Safety and Security
    - 27 15 01.13 Video Surveillance Communications [ ]
    - 27 15 01.15 Access Control Communications [ ]
    - 27 15 01.16 Voice Communications Horizontal Cabling
    - 27 15 01.17 Intrusion Detection Communications [ ]
    - 27 15 01.19 Fire Alarm Communications [ ]

Wrap Up

- Available on SecuritySpecifiers.com:
  - Webinar Recording (also on SecurityIndustry.org)
- Next Webinar – Friday Oct. 14 @ 11 AM EDT
  - Intrusion, Monitoring, Information Management +
- MasterFormat 2018 Update
  - Indicate interest
  - Send comments, recommendations
  - Email ray@SecuritySpecifiers.com

PSP/CPP Credits

- Use question box to send:
  - Name
  - Company
  - Email
  - Indicate PSP or CPP

  Or

- Email ray@SecuritySpecifiers.com