

October 2019 A & E Conference Agenda

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Summary: The intent of this conference section is to provide A & E personnel with the insight for providing appropriate design, installation, and implementation of video management system components for public sector infrastructure clients – specifically in the public safety and law enforcement vertical markets.

All too often video management systems and components are designed and installed for public safety implementations without regard for public safety network security protocols, network isolation from government data networks, or appropriate use of video data for critical incident analysis and evidentiary preservation. Some overlooked system component considerations include:

- **Cameras:** In addition to correct use of fixed focus, digital 360, and pan-tilt-zoom cameras, design and implementation of such cameras need to primarily center around customer missions for using video data. A&E regularly focuses upon area monitoring, perimeter control, and access control as primary considerations for customer design when selecting cameras. Mission-driven customer design should consider camera types and critical placement, environmental supplements to enhance and assist video imagery, intruder/suspect identification, and appropriate use of video applications and analytics to fulfill the customer mission.
- **Network Video Recording:** Recording of video data requires fulfillment of the public safety customer mission as well. Many public safety customers lack appropriate information technology (IT) staff to plan and design a secure and robust video network recording system which accounts for security protocol compliance, alignment with bandwidth provisions, and utilization of managed switching systems. Thorough evaluation of the customer site is required to ensure the design of the system can be implemented within the client's provided infrastructure. Additionally, public safety demands extraordinary results from recorded video data and is subject to requests from multiple venues for the provision of such data.
- **Video Management Software Systems:** Proprietary software systems are purchased and later discarded as the public safety customer relies upon interoperability with multiple levels of government, diverse stakeholders, and increasing legal requests for stored video data. Open-source software systems provide the solution to such challenges and provide for reliability in critical incident management and investigative initiatives. A & E personnel need to conduct a full examination of the public safety client's "customers" and ensure an appropriate software system is in place to support cameras, video recording and switching appliances, as well as appropriate implementation and utilization of applications and analytic resources.
- **Wireless Networking:** The public safety customer isn't limited to physical facilities but are often challenged to provide services in areas not conducive to high-speed and high-bandwidth data connections. Remote monitoring and challenging topography are often overlooked in A & E support of public safety customers. Appropriate and affordable wireless systems are required to supplement to mission of public safety customers.

This presentation will seek to share experiences, provide insight and diversify how A & E views potential and current public safety clients. The depth of content is correlated with the time allotted for this presentation; however focus will be provided to the above-listed challenges.

The suggested course itinerary will provide emphasis on the following:

1. History of public safety and pursuits of technology.
2. Public safety information security protocols: Specifically – the FBI Criminal Justice Information System security protocol.
3. Public safety video management implementation:
 1. Public facility video management and unique challenges to diverse facilities
 2. Community infrastructure
 1. Traffic management (Evacuation and traffic control)
 2. Public infrastructure (Utilities, Parks, Public Transportation)
 3. Private/Public Partnerships (Business, Retail, HOA)
4. Preservation and recording of video evidence and continuity of government
5. Special public safety needs
6. Legal challenges to video management