Study Progress: 10/25/2018

Body Worn Cameras and other Video Asset Storage

NC Criminal Justice Information Network
Mission: Study Best Practices for Body Worn Cameras and Agency Video Storage and Sharing

- Study, propose and provide guidance for Police Agency storage, organization, retrieval and management of Video Media Assets
  - Understand current Agency contracts, obligations, issues and costs
  - Identify better lower cost alternatives
  - Improve access and organization media assets
  - Improve security and audit access
  - Uniformly comply with CJIS Security Requirements
  - Understand agency unique requirements
  - Eliminate insecure physical media like DVD-R
- Identify uniform, more secure and cost effective solutions
**Current Activities**

- Study Current Agency Deployment of BWC systems
  - Business models and costs
  - Storage capacity and access requirements
  - Proprietary characteristics of the systems
  - Standardized Questionnaire

- Visiting range of agencies:
  - Range of agency sizes: medium to large
  - Planning installation
  - New installation
  - Installation at end of life
  - Experiencing vendor consolidation

- Initial agency visits completed:
  - Cary PD 8/10/2018
  - Raleigh PD 8/10/2018
  - Wake County Sheriff 8/17/2018
  - Durham PD 9/7/2018
  - Orange County Sheriff 10/5/2018
  - Guilford County Sheriff 10/19/2018
  - Greensboro PD 10/19/2018
Study Activities

➲ Study Available Vendor Cloud Video Storage Solutions

- Video file storage, access and management
  - Vendor provided
  - Agency / Government unit provided – roll your own facilities
  - Networking impact

➲ Identify open and generic solutions already used by Law Enforcement Agencies

- These vary widely with every agency working independently
  - Proprietary
  - Proprietary client export
  - Open Media Export

➲ Range of pricing models

- Per officer month / metered utilization / cost plus / outright purchase / high capital acquisition cost / high ongoing cost

➲ Determine and Estimate Alternative Costs

- Proprietary cloud costs range from over $1.13 per gigabyte per month to $.50
- Vendors respond to alternatives with discounting and bundling
Study Activities

- Identify Impact on Existing Information Assets
  - New larger storage infrastructures required
  - New connectivity assets required
  - What's a smaller agency going to do?
  - Study efficient geographic distribution of data
    - Disaster recovery and protection must embrace state-wide storm emergencies
  - Consider interfaces and extensions to current BWC systems
    - Vendor acquisition and churn of products is now happening
    - City and County governments sometimes provide networking infrastructure
    - Vendor wireless (Cellular / FirstNet?) can accommodate many requirements at a cost
    - Home WiFi and WiFi at agency facilities can reduce expenses
Study Activities

➲ Some unexpected lessons learned

- One camera worn configuration has emerged as preferred
  - Center chest mounted camera / alternatively on shoulder
  - Molle style straps with integrated clothing sewn mounts
  - Cloth clamp mount being investigated in one agency
  - Magnetic mounts work, but cameras are prone to being detached during altercations
  - Some that grapple with officers start by trying to knock away cameras

- Integration with vehicular systems is desirable
  - Activation with lights/sirens
  - Connectivity integration through a single Cellular account
  - Recording consolidation with vehicle mounted system

- Integration with other video systems may be desirable
  - Interview recordings
  - Vehicle cameras forward / interior / rear
  - Fixed cameras in facilities
Study Activities

➲ Some unexpected lessons learned
  ● While political pressure motivated early adoption of body worn cameras
    ● Many officers prefer later access to the facts documented on recordings
  ● 30 Second Pre-Recording features literally can expose officers
    ● Concern that these pre-recorded segments of files cannot be redacted
    ● Example: An incident occurs after just leaving a restroom
    ● Manual process to deactivate cameras may leave them off
  ● Officers within agencies are often assigned BWC rollout projects without formal IT deployment background
    ● These remarkable teams get the job done pragmatically
    ● Long term planning and deployment issues are not addressed
    ● Long term costs and resource shortages are affecting agencies