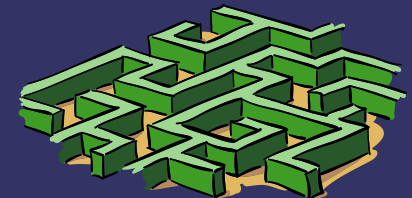


*Study Progress: 10/25/2018*  
*Body Worn Cameras and other Video Asset Storage*

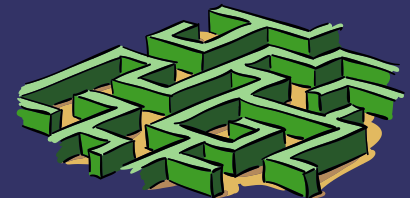


NC Criminal Justice Information Network



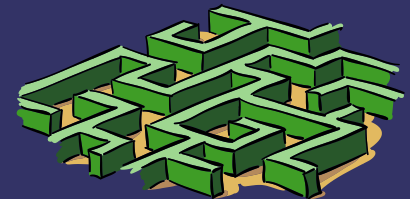
# ***Mission: Study Best Practices for Body Worn Cameras and Agency Video Storage and Sharing***

- 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



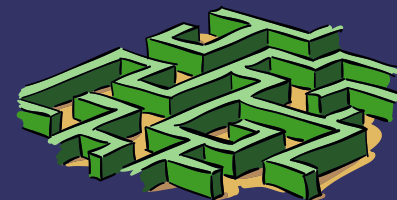
## *Study Activities*

- 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 roll-out 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

