How to stay afloat on a sea of digital evidence
Today’s Speakers

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Agenda

• Current state of the industry: how digital initiatives are creating data silos and challenges for investigators

• Challenges of collecting, analyzing & sharing evidence

• Los Angeles Sheriff’s Department perspective/insights

• How to streamline the investigative process and close more cases faster
When we moved from paper to digital to get a better handle on our data, we were surprised to find that we ended up with even more information silos.

- Major Metro Law Enforcement Agency
Boston Marathon bombings: Police turn to 'crowdsourcing' to help solve crime

Sheriff's Department to test body-worn cameras

Surveillance Cameras Key to Solving Crimes in Boston, Elsewhere

Denver police increasingly rely on video surveillance to solve crime

San Diego County Sheriff's Department begins body-camera pilot program

Riverside County Sheriff Implements Body-Cam Policy

Survey: Almost All Police Departments Plan to Use Body Cameras

Sheriff's Office: San Francisco Jail Guards Will Wear Body Cameras
The Investigator

KEY Challenges

Collect

Analyze

Share

Explosion of data

Digital Content Sources

- Body Worn Cameras
- 911 and Radio Audio
- Public & Private CCTV Video
- Crime Scene Photos & Video
- In-Car Video
- Interview Recordings
- Citizen Photos & Video
- Mobile Forensic Extractions
- CAD & RMS
- Social Media
...and many more
• Serves Los Angeles County, CA -- an area totaling approximately 4,084 square miles with a population of almost 10 million people (2010 U.S. Census)

• Largest Sheriff's Department in the world, with approximately 18,000 employees

• Provides general law enforcement services to 40 contract cities, 90 unincorporated communities, 216 facilities, hospitals, and clinics located throughout the County, nine (9) community colleges, the Metropolitan Transit Authority and 47 Superior Courts
Investigative Trends

Workloads

Digital Content

Data Silos

Still using the same manual processes
Challenges of Collecting Evidence

Logging into different systems

time consuming & labor intensive
Canvasing crime scenes looking for CCTV
Lots of systems to learn & navigate
Difficult to see what’s missing?
In today’s Law Enforcement agencies detectives have to work through not only collecting multi-media digital evidence but also develop a system that allows you to analyze the evidence:

- review it
- understand it
- learn its relevance to the story
Challenges Analyzing Evidence
Challenges Sharing Evidence

Copy MORE CDs, DVDs

Physically transport evidence to the prosecutor’s office
Streamlining investigations to close more cases faster
Today’s Investigations Are More Complex

- WHO?
- WHERE?
- WHAT?
- WHY?
- WHEN?
Solving the Challenge of Data Collection
PUBLIC PORTAL

CITIZENS
Share photos, videos, tips

BUSINESSES
Register CCTV cameras
Crowdsourced Evidence Played a Key Role in Boston Marathon Investigation
A better way
A better way
Advantages

• Secure, CJIS-compliant – safeguards digital evidence
• SaaS solution – eliminates up-front hardware & resource costs of on-premise option
• Inherent scalability easily adjusts to changing investigative workloads and evidence storage requirements
Solving the Challenge of Data Analysis
How It’s Done Today

creating a stack of
DIGITAL CONTENT ON PHYSICAL MEDIA
Investigator Has Relevant Content

But how to put it into context?

OR FIND WHAT’S MISSING?
Using Content Analytics to Uncover New Insights
## Putting Evidence into Context: Timeline View

### Timeline View Details

**Date Range:** 17 August 2015 to 26 April 2016

### Video Categories
- CCTV

### Audio Categories
- 911/999

### Playlist:
- **Tuesday 26 April 2010**

#### 11:00 - 11:05
- 911_20120226 191800 1m55s
- OverheadCam_Redacted.avi

#### 11:05 - 11:10
- TILLCAM.MP4

### Video Thumbnails
- CCTV footage
- Audio file captures

### Timeline Controls
- Navigation tools for different time segments.
Putting Evidence into Context: Map View
Redaction

- Use technology to automate redaction process
- No need to send to another department or outsource
- Eliminates delays
Solving the Challenge of Data SHARING
Sharing Evidence is Highly Manual

Delivering a stack of DVD's to prosecutors and expecting them to make sense of it all.
Virtual Case Folders
How Investigative Technology Enables More Efficient, Effective Sharing of Evidence

• Virtual case folders make it easy to securely and electronically share evidence with prosecutors
• Permissions-based access to digital case folders
• Automatically track who accessed what & when to protect chain of custody
Delivering a Compelling Story

- Visualization tools: let evidence tell the story
- Easily understandable: prosecutors, juries visualize evidence in context
In Summary

• Current state of the industry: how digital policing initiatives are creating data silos and big data challenges
• Challenges of collecting, analyzing and sharing evidence
• Los Angeles Sheriff’s Department experience/insights
• How to streamline the investigative process and close more cases faster
Questions?
THANK YOU

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