City and County of San Francisco

Department of Police Accountability

Veritone Redact

June 11, 2021

Department Mission

The Department of Police Accountability (DPA) is committed to providing the City of San Francisco with independent and impartial law enforcement oversight through investigations, policy recommendations, and performance audits to ensure that the Department reflects the values and concerns of the community it serves.

Authorized Use Case

Redact confidential information from **SB1421 Public Records** media files prior to disclosure

Video Redaction Example

Marked for Redaction   Redacted

Marking Objects

Veritone Redact identifies objects such as face shapes and license plates—it does not recognize or track individual faces or vehicles

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Confidential Information Redaction Examples

1. **PROTECT PERSONALLY- IDENTIFIABLE INFORMATION (PII):** Birthdates, Social Security Numbers, Driver license numbers, Mobile phone numbers, Residential addresses

2. **CONCEAL IDENTITIES OF COMPLAINANTS AND WITNESSES:** Faces of witnesses and bystanders

3. **OTHER INFORMATION:** Information that would reveal the identity of a complainant, victim, or witness, such as a family photograph appearing inside a residence

Technology Description

Veritone Redact is a video redaction software tool that enables government agencies to efficiently redact sensitive information from audio, video, and image-based evidence.

Machine-learning algorithms expedite the redaction process by adding structure to unstructured (raw) audio and video-based data in the forms of time-correlated transcribed speech and automatically detected objects (heads, laptops, license plates/vehicle ends). The output of these algorithms is indexed so it can be quickly selected for redaction.

Alternatives to Technology

- Evidence.com (body-worn camera footage only)

- Adobe Premiere Pro (labor intensive/no transcript/no audit log)

- Apple Final Cut Pro (Mac computer/labor intensive/no transcript/no audit log

- Audacity (audio only)

- Professional Services Vendor Redaction (requires two vendors and will cost approximately $650 per hour of edited video)
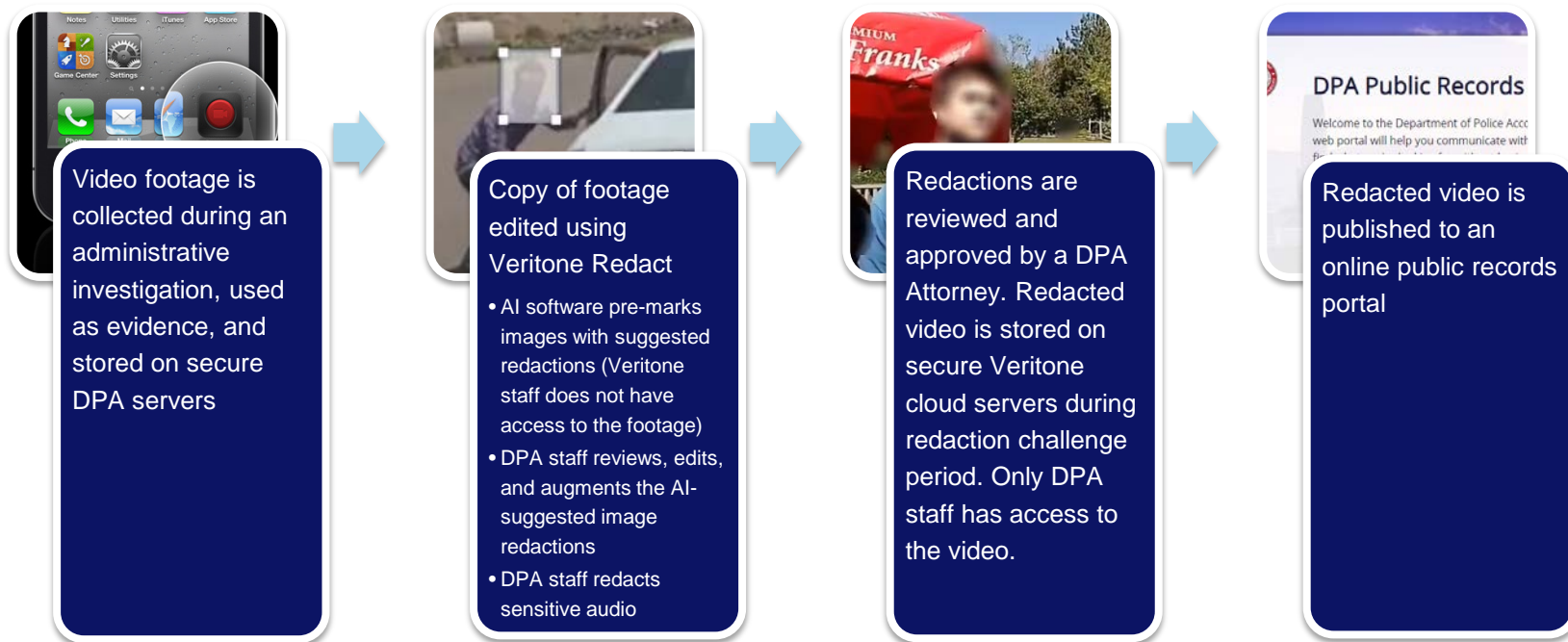
Process Map – Current State

There is *no current process* for redacting video because SB1421 created this *new obligation* in 2019.

Data Lifecycle Steps
- Video footage collected and used as evidence during administrative police misconduct investigation
- Footage stored on secure server
  - Security features: Department of Technology virtualized server management and data protection under SF Cloud. FireEye (HX) protection, Tanium endpoint management, and Splunk alerts.
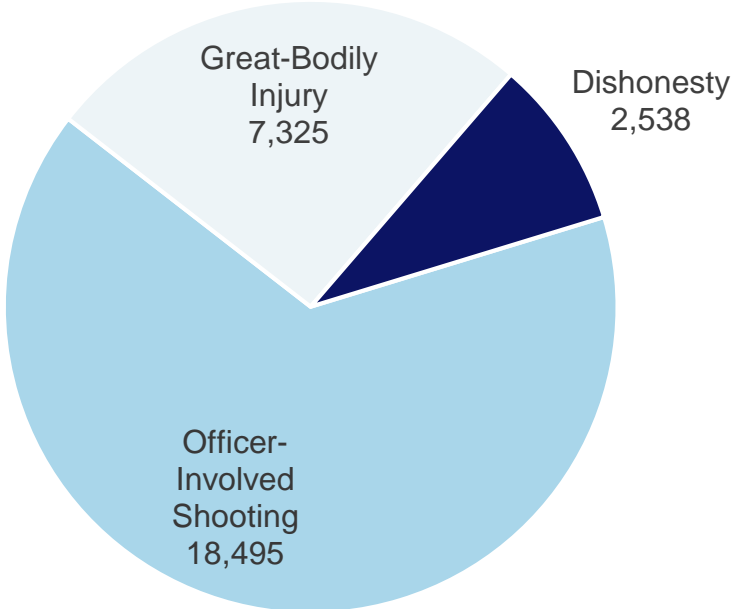- Footage remains in storage

Process Map – Future State

Video footage is collected during an administrative investigation, used as evidence, and stored on secure DPA servers

Copy of footage edited using Veritone Redact

- AI software pre-marks images with suggested redactions (Veritone staff does not have access to the footage)
- DPA staff reviews, edits, and augments the AI-suggested image redactions
- DPA staff redacts sensitive audio

Redactions are reviewed and approved by a DPA Attorney. Redacted video is stored on secure Veritone cloud servers during redaction challenge period. Only DPA staff has access to the video.

Redacted video is published to an online public records portal

SB1421 Records Released

https://sfdpa.nextrequest.com/

Pages by Category

Great-Bodily Injury
7,325

Dishonesty
2,538

Officer-Involved Shooting
18,495

Estimated Project Scope for Media Files

- Archived Cases

  - 3,200 hours of video

  - 6,200 hours of audio

- Ongoing Cases

  - 345 hours of video

  - 135 hours of audio

Retention Schedule

- DPA is currently using SFPD's retention schedule and working to create its own

- Video marked for redaction will be stored for three years following publication to allow time for the public to challenge specific redactions

About Veritone

Veritone (NASDAQ: VERI) is a leading provider of artificial intelligence (AI) technology and solutions. The Company's proprietary operating system, aiWARE powers a diverse set of AI applications and intelligent process automation solutions that are transforming both commercial and government organizations. aiWARE orchestrates an expanding ecosystem of machine learning models to transform audio, video, and other data sources into actionable intelligence. The Company's AI developer tools enable its customers and partners to easily develop and deploy custom applications that leverage the power of AI to dramatically improve operational efficiency and unlock untapped opportunities. Veritone is headquartered in Denver, Colorado, and has offices in Costa Mesa, London and San Diego. To learn more, visit Veritone.com.

Questions
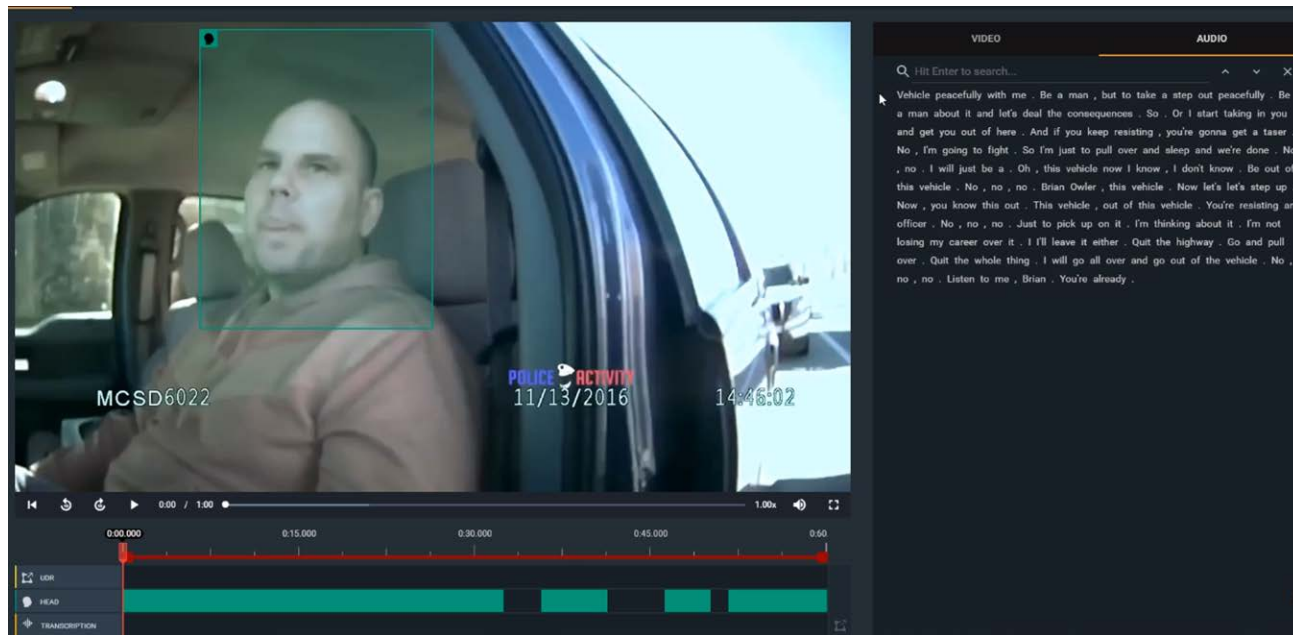
Object Tracking

Moving objects and reflections
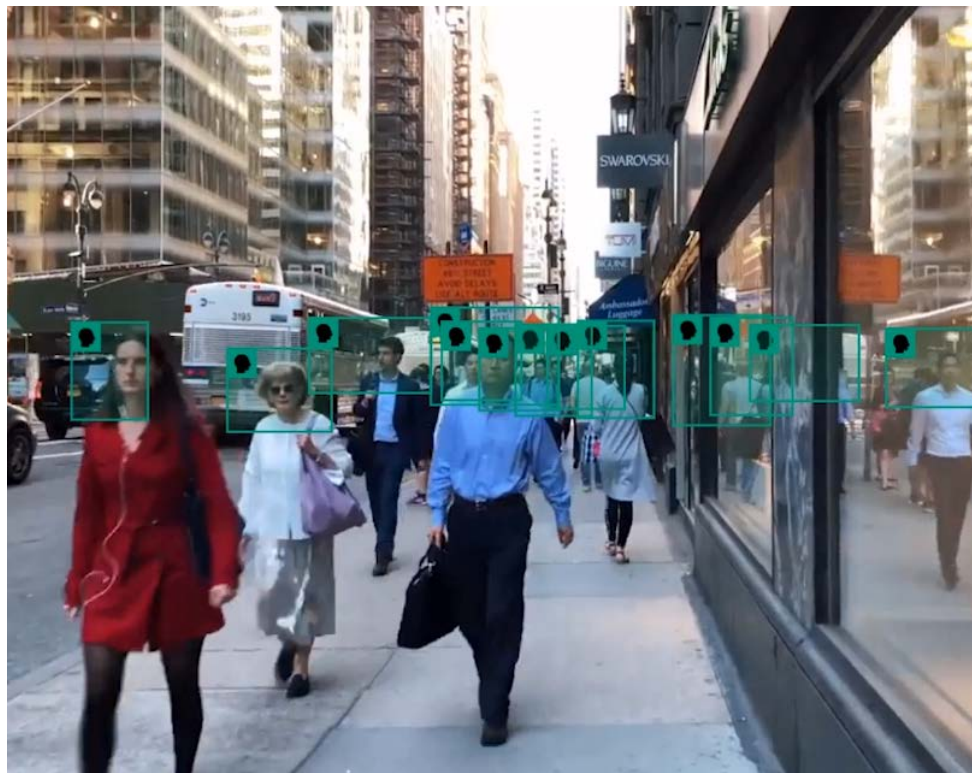
Transcripts and Audit Logs