



Surveillance Technology Policy

San Francisco International Airport
Gunshot Detection Solution

The City and County of San Francisco values the privacy and protection of San Francisco residents' civil rights and civil liberties. As required by San Francisco Administrative Code, Section 19B, the Surveillance Technology Policy aims to ensure the responsible use of the Department's gunshot detection solution itself, as well as any associated data, and the protection of members of the public who visit the Airport and all those who work at the Airport.

PURPOSE AND SCOPE

The Surveillance Technology Policy ("Policy") defines the manner in which the gunshot detection solution will be used to support department operations.

This Policy applies to all department personnel that use, plan to use, or plan to secure the gunshot detection solution, including employees, contractors, and volunteers. Employees, consultants, volunteers, and vendors while working on behalf of the City with the Department are required to comply with this Policy.

POLICY STATEMENT

The Airport will limit its use of the gunshot detection solution (GSD) to the following authorized use cases and requirements listed in this Policy.

Authorized Use(s):

1. Detect the sound of gun shots, aggressive voices, glass breaking, and unusual disturbances (based upon decibel level) and use of device sensors to locate the origin of the sounds.
2. Provide the date and time stamp, the type of gun used or sound detected and the geographical location (i.e., which sensor detected the sound) to law enforcement or other authorized persons in connection with the investigation of an incident, or to members of the public when the information is subject to disclosure pursuant to a Public Records Act request.
3. Upon a GSD alarm, 9-1-1 Dispatch and the Security Operations Center (SOC) can immediately view CCTV feeds of the location identified in the alarm to provide Airport First Responders situational awareness (i.e., location) of an incident.

Prohibited use cases include any uses not stated in the Authorized Use Case section.

Processing of personal data revealing legally protected categories, including racial or ethnic origin, political opinions, religious or philosophical beliefs, trade union membership, gender, gender identity, disability status, or an individual person's sex life or sexual orientation, and the processing of genetic data and/or biometric data for the purpose of uniquely identifying an individual person shall be prohibited.

BUSINESS JUSTIFICATION

The gunshot detection solution supports the Airport’s Core Value of “Safety and Security is our first priority” and provides important operational value in the following ways:

The gunshot detection solution is an alert system designed to provide real-time notification and information regarding incidents that potentially threaten the public safety, such as an indoor active shooter incident, aggression, glass break or unusual disturbances. As a result, first responders arrive on scene faster, equipped with the vital information needed to contain threats and mitigate casualties. The gunshot detection solution provides immediate and accurate response for Airport Commission staff and law enforcement teams.

In support of Department operations, the gunshot detection solution promises to help with:

<input type="checkbox"/>	Education	
<input type="checkbox"/>	Community Development	
<input checked="" type="checkbox"/>	Health	Protect safety of staff, patrons, and facilities while promoting an open and welcoming environment.
<input type="checkbox"/>	Environment	
<input checked="" type="checkbox"/>	Criminal Justice	SFPD-AB can be quickly alerted and respond, when needed, to the sound of gunshots, aggressive voices, glass shattering, or other high decibel level sound disturbances such as blasts, with improved geographic precision. In conjunction with the video images from the Airport’s CCTV system, Law Enforcement can be provided situational awareness or information to assist in its investigation of an incident.
<input type="checkbox"/>	Jobs	
<input type="checkbox"/>	Housing	
<input checked="" type="checkbox"/>	Other	Improved protection of the public and city assets by leveraging remote condition assessment technology, which improves the overall situational awareness. The technology helps ensure the safety of the 49,000+ people who work at the Airport and the 58 million people who fly to and from SFO every year.

In addition, the following benefits are obtained:

Benefit	Description
Financial Savings	The gunshot detection solution (GSD), in conjunction with the Airport Security Camera Systems will run 24/7, thus decreasing or eliminating the

		need for additional building or SFPD-AB patrol officer supervision and saving on salary expense.
X	Time Savings	The gunshot detection solution's automated notification removes the human element of notification which allows first responders to arrive more promptly to the scene to de-escalate any potentially violent situations. Use of the solution provides instant alerts, so that real-time 24/7 CCTV feeds can be viewed, to provide pinpoint location accuracy, thus eliminating lengthy physical surveillance of Airport facilities.
X	Staff Safety	The gunshot detection solution will provide immediate information about the location of potential threats to staff safety. The gunshot detection solution will alert Law Enforcement to the location of the incident. This will prompt them to view the camera feeds for an immediate view as the event is occurring, to better prepare those responding to the incident.
X	Data Quality	The identification of ambient noise from GSD coupled with CCTV cameras use, provides Law Enforcement complete situational awareness.
X	Service Levels	The gunshot detection solution will enhance effectiveness of incident response by allowing First Responders to arrive more promptly to the scene, resulting in an improved level of service.

POLICY REQUIREMENTS

This Policy defines the responsible data management processes and legally enforceable safeguards required by the Department to ensure transparency, oversight, and accountability measures. Department use of surveillance technology and information collected, retained, processed or shared by surveillance technology must be consistent with this Policy; must comply with all City, State, and Federal laws and regulations; and must be consistent with all state and federal Constitutional guarantees.

Specifications: The software and/or firmware used to operate the gunshot detection solution surveillance technology must be kept up-to-date and maintained.

Data Collection: Department shall only collect data required to execute the authorized use cases. All data collected by the surveillance technology, including PII, shall be classified according to the City's [Data Classification Standard](#).

The surveillance technology collects some or all of the following data types:

<i>Data Type(s)</i>	<i>Format(s)</i>	<i>Classification</i>
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Alarm		
<ul style="list-style-type: none"> • Date • Time • Geolocation • Noise level 	MP4 or other format	Level 2
Geolocation data		
TXT, CSV, DOCX		Level 2
Data Class: Level 2 = Internal Use	Description: Data intended for release on a need-to-know basis. Data regulated by privacy laws or regulations or restricted by a regulatory agency or contract, grant, or other agreement terms and conditions.	Potential Adverse Impact: Low

Notification: The notice requirements in Administrative Code Section 19.5 do not apply to the Airport. However, the Airport will publish a public notice on its external website at www.flysfo.com regarding the use of this surveillance technology.

The Department’s public notice will include the following items:

- X Information on the surveillance technology
- X Description of the authorized use
- Type of data collected
- Will persons be individually identified
- Data retention
- X Department identification
- X Contact information

Access: Prior to accessing or using data, authorized individuals (who must have a current Airport ID Badge) receive training in system access and operation, and instruction regarding authorized and prohibited uses. Details on department staff and specific access are available in Appendix A.

Data Security: Department shall secure PII against unauthorized or unlawful processing or disclosure; unwarranted access, manipulation or misuse; and accidental loss, destruction, or damage. Surveillance technology data collected and retained by the Department shall be protected by the safeguards appropriate for its classification level(s) as defined by the National Institute of Standards and Technology (NIST) security framework 800-53, or equivalent requirements from other major cybersecurity framework selected by the department. Departments shall, at minimum, apply the following safeguards to protect surveillance technology information from unauthorized access and control, including misuse:

- Encryption: Data retained by the Department will be encrypted. Raw data may be retained by the Department only for the authorized use case of sharing with law enforcement or the public.
- Storage: Any use of a third-party service provider must meet City's cyber security requirements.
- Audits: A data access log will be maintained by the Department for all Security Camera data that is shared with a third party. This log will include, but is not limited to, the following: date/time data was originally obtained/collected, department requesting data, date/time of access of raw data, outcome of data processing, as well as, the date processed data was delivered to users.

Data Sharing:

The Department will endeavor to ensure that other City agencies or departments that may receive data collected by their own Security Camera Systems will act in conformity with this Surveillance Technology Policy.

Department shall ensure proper administrative, technical, and physical safeguards are in place before sharing data with other CCSF departments, outside government entities, and third-party providers or vendors.

Before sharing data with any recipients, the Department will use the following procedure to ensure doing so is consistent with the policy:

X Confirm the purpose of the data sharing aligns with the department's mission.

X Consider alternative methods other than sharing data that can accomplish the same purpose.

X Ensure all PII is removed in accordance with the department's data policies.

X Review of all existing safeguards to ensure shared data does not increase the risk of potential civil rights and liberties impacts on members of the public.

X Evaluation of what data can be permissibly shared with members of the public should a request be made in accordance with the San Francisco's Sunshine Ordinance, the California Public Records Act, and the various federal, state and local laws protecting privacy.

X Ensure data will be shared in a cost-efficient manner and exported in a clean, machine-readable format.

Department will comply with the California Public Records Act, the San Francisco Sunshine Ordinance, the requirements of the federal and State Constitutions, and the federal, state, and local laws protecting an individual's right to privacy.

The Department may share data from the Gunshot Detection System with the following entities:

A. *Internal Data Sharing:*

In the event of an incident, data from the Gunshot Detection System and views from the Airport's CCTV may be shared by alternative methods to the following agencies:

- Within the Department on a need-to-know basis
- SFPD
- SF City Attorney

Data sharing occurs at the following frequency:

- As needed.

B. External Data Sharing:

The department shares the above referenced data with recipients external to the City and County of San Francisco:

- Other law enforcement agencies:
 - San Mateo County District Attorney
 - San Mateo County Sheriff's Office
 - DHS/TSA
 - FBI
 - other local, state and federal law enforcement agencies if required by law
 - Member(s) of the public, if required under the California Public Records Act or the Sunshine Ordinance.

Data sharing occurs at the following frequency:

- As needed.

Data Retention: Department may store and retain raw PII data only as long as necessary to accomplish a lawful and authorized purpose. Department data retention standards should align with how the department manages its records and should be consistent with any relevant Federal Emergency Management Agency (FEMA) or California Office of Emergency Services (Cal OES) sections.

The Department's data retention period and justification are as follows:

- Security Camera data will be stored for a minimum of one (1) year per State law to be available to authorized staff for operational necessity and ready reference, subject to technical limitations.

If data is associated with an incident, it may be kept for longer than the standard retention period.

- Justification: Per the Airport's Record Retention and Data Destruction Policy (ED 18-05) and the statutes referenced within, which are in

compliance with State law, requiring security camera footage be retained for one year. This retention period conforms with the available server system storage space and allows for ample time for security staff to review footage related to security incidents and/or external requests for records.

Data may be stored in the following location:

Local storage (e.g., local server, storage area network (SAN), network-attached storage (NAS), backup tapes, etc.)

Department of Technology Data Center

Software as a Service Product

Cloud Storage Provider

Data Disposal: Upon completion of the data retention period, Department shall dispose of data in the following manner:

- Automatic overwrite of all existing files when standard data retention period ends. This may take the form of a delete/reformat, wipe, overwrite of existing data, or degaussing.

Training: To reduce the possibility that surveillance technology or its associated data will be misused or used contrary to its authorized use, all individuals requiring access must receive training on data security policies and procedures.

- Annual cybersecurity training (COIT Policy Link)

COMPLIANCE

Department shall oversee and enforce employee compliance with this Policy in accordance with the Memoranda of Understanding of the labor organization representing employee.

If the Department is alleged to have violated the Ordinance under San Francisco Administrative Code Chapter 19B, and the Department determines a violation has occurred, it shall post a notice on the Department's website that generally describes any corrective measure taken to address such allegation.

Department is subject to enforcement procedures, as outlined in San Francisco Administrative Code Section 19B.8.

DEFINITIONS

Personally Identifiable Information:	Information that can be used to distinguish or trace an individual's identity, either alone or when combined with other personal or identifying information that is linked or linkable to a specific individual.
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AUTHORIZATION

Section 19B.4 of the City's Administrative Code states, "It is the policy of the Board of Supervisors that it will approve a Surveillance Technology Policy ordinance only if it determines that the benefits the Surveillance Technology ordinance authorizes outweigh its costs, that the Surveillance Technology Policy ordinance will safeguard civil liberties and civil rights, and that the uses and deployments of the Surveillance Technology under the ordinance will not be based upon discriminatory or viewpoint-based factors or have a disparate impact on any community or Protected Class."

Appendix A: Department Specific Responses

1. A description of the product, including vendor and general location of technology.

The AmberBox gunshot detection solution is a detection and response system designed to protect lives in an indoor active shooter, aggressive behavior, glass break and unusual disturbance incidents (based upon artificial intelligence employing machine learned decibel level). Specifically, the GDS listens for the ambient (normal) noise within the Airport buildings (i.e., terminals, Commission office buildings) and sets a baseline decibel level for the buildings to eliminate false alarms by only detecting and notifying when the baseline decibel level is exceeded and detected by multiple device sensors.

By automating the notification process, First Responders arrive on scene faster, equipped with the vital information needed to contain threats and mitigate casualties. The AmberBox gunshot detection solution provides immediate and accurate response for internal and law enforcement teams.

The AmberBox gunshot detection solution offers an advanced sensing system, ensuring maximum protection from threats. Shots are detected through percussion and infrared sensors, that analyze the binodal signature of a gunshot. Combined with AmberBox's gunshot detection solution's algorithm, false alarm sources are virtually eradicated. All analysis is conducted at the sensor (detector), with no real-time audio transmitted or recorded, ensuring privacy.

The Proof of Concept, Phase I, will require the deployment of 25 sensors in the Consolidated Airport Campus Building 674. The sensors will be connected to the Aruba Wi-Fi system on the 1st floor (lobby area), as well as, throughout the 4th floor. In Phase II, the sensors will be deployed both pre- and post-security throughout the terminals, as well as the Airport buildings throughout the campus.

The Airport uses Verint Video Management Software (VMS), and primarily, Pelco Analog/Digital Pan-Tilt-Zoom (PTZ) and fixed cameras. The cameras are installed in public areas of the Airport.

The Verint system is a closed system, running on a security local area network that is not exposed to the Internet.

2. The specific categories and titles of individuals who are authorized by the Department to access or use the collected information:

- *9202 911 Dispatcher*
- *9203 911 Dispatch Supervisor*
- *9212 Security Operations Center (SOC) Analyst*

- 9213 Airfield Safety Officer
- 9220 SOC Supervisor
- 9221 Airport Operations Supervisor

3. What procedures will be put in place by which members of the public can register complaints or concerns, or submit questions about the deployment or use of a specific Surveillance Technology, and how the Department will ensure each question and complaint is responded to in a timely manner.

Public questions and complaints can be submitted via the:

- Airport Guest Services (Contact SFO)
- Airport public email, phone, or website (Contact SFO), or
- Airport Commission meetings (How to Address the Commission)

4. Specific details on where data will be stored (local, DT, SaaS, Cloud Storage) including name of vendor and retention period.

CCTV data is in a local server for 45 days; then video files are transferred to Amazon Web Services (AWS) for minimum one year. Files are deleted after 320 days based on the lifecycle policy in AWS.

5. Is a subpoena required before sharing with law enforcement?

- No