

## Increase Public Safety with Gunshot Location and Video Surveillance

Today, crime, especially violent crime and gunfire in our cities, is a significant challenge to citizens, law enforcement officers, fire, ambulance and other first-responding personnel. In fact, gunfire is the leading cause of crime-related deaths in the nation:

- Nearly 81 people per day die as a result of a gunshot in the U.S. – that’s an average of 1 every 18 minutes <sup>1</sup>
- An average of one police officer dies from a gunshot wound every 10 days <sup>2</sup>



### Leverage Your Network to Gain the Benefits of Gunfire Detection, Location, and Video Surveillance

Efficient communications supported by interoperable technologies are vital to the situational awareness, scalability, and effectiveness of gunfire incident response. With the right technologies in place, you can extend the reach of law enforcement to gunfire incidents while increasing your efficiency and effectiveness in protecting the public.

For example, most emergency operation centers rely on personnel to monitor information such as video surveillance feeds and sensor data. When the operators identify anomalies and suspicious activity, they notify key command personnel. Using the operator’s verbal description of the event, the decision maker can assess the situation and dispatch the necessary resources. However, it is often the case that the percentage of operators to cameras is very small, typically less than 5%, which means that actionable incident information does not reach dispatch personnel in a timely manner, if at all.

But what if no human intervention was required? What if the system was automated so that the sound of gunshots picked up by sensors could alert key personnel in a timely manner and slew cameras to capture the events on video feeds? In an instant, the appropriate personnel could be dispatched by receipt of a call for service on a multiplicity of communication devices.

Plus, with a common infrastructure, the interoperability challenges between multiple devices can be eliminated—allowing everyone to communicate and collaborate in real-time during an event. This intelligent, converged network can also serve as a platform to develop many other capabilities, services, and applications that address priority concerns such as disaster recovery and continuity of operations.

### Protect Citizens and First Responders with Gunshot Location and Video Surveillance, based on Cisco’s Open Platform for Safety and Security

Cisco’s Gunshot Location and Surveillance Wireless Network solution helps improve public safety by providing automated, near real-time alerts that give law enforcement agencies accurate and reliable detection of actual gunfire incidents. As a result, this solution:

- Enables faster responses to aid injured victims, protect witnesses, and capture suspects
- Provides video surveillance, enabling cameras to focus on the incident scenes and triggering recording
- Improves situational awareness so law enforcement can respond with more appropriate force, resulting in improved officer and citizen safety
- Increases apprehensions and arrests
- Reduces violent crime—Cisco’s application partner, ShotSpotter, has customer reports of reductions up to 35%
- Reduces errant and celebratory gunfire—ShotSpotter customers report up to 80% reductions
- Captures more forensic evidence, because responders are directed to a specific location
- Increases seizure of illegal weapons
- Stores court-admissible forensic evidence, invaluable for investigations and prosecutions
- Searchable incident data help drive targeted enforcement

This solution is based on the Cisco® Open Platform for Safety and Security, which proactively protects first responders, public safety personnel, citizens, and assets through a scalable, tested network design. Using this architecture, Cisco partners build solutions on a proven Intelligent Information Network platform to foster collaboration and the convergence of voice, video, data and physical security.

Cisco partners are all recognized industry leaders, and offer integrated and scalable security solutions. ShotSpotter, Inc., the world-leading provider of network-aware gunshot and location systems, is one such partner. ShotSpotter’s gunshot detection and location system delivers the features, functionality, and services and support that improve the ability of law enforcement agencies to monitor, address, and suppress violent crime. Whenever and wherever frequent gunfire occurs, violent crime and general lawlessness also occur. With a ShotSpotter GLS, your agency will know when gunfire occurs, where it occurs, will receive video data that provides for greater situational awareness, and that information is securely recorded into a database to support follow-up police actions, investigations, and targeted enforcement through crime analysis.

<sup>1</sup> Center for Disease Control and Prevention, 2004.

<sup>2</sup> Alan Jay Fox (Northeastern University) and Marianne Zawitz, Homicide Trends in the United States, Bureau of Justice Statistics, Department of Justice.

## Ensures the Security and Chain of Custody of Public Safety Data

To effectively anticipate, collaborate, and react, public safety personnel need to:

- Trust the accuracy and integrity of the data they are reviewing and know it has not been tampered with
- Be confident that critical information is going to be available whether they are in the office, in the field, or at home
- Maintain data confidentiality

Cisco's pervasive security approach protects information at all levels and proactively defends the network from internal and external threats that may compromise the data your employees rely on most.

### Why Cisco?

- Cisco is the global leader in providing the intelligent, secure, resilient network infrastructure with mobility that is the platform for the Cisco Gunshot Location and Video Surveillance Wireless Network.
- Cisco is the global leader in Unified Communications, which is core to the solution and uses the network as the platform.
- Cisco is introducing emerging technologies in the safety and security market (video and LMR interoperability) that easily integrate with Cisco's network architecture as plug-in services.
- Cisco partners and collaborates with other safety and security technology providers to meet your requirements for a converged network solution.

## Expand Your Public Safety Capabilities

In addition to supporting Gunshot Location and Surveillance, the Cisco Open Platform for Safety and Security incorporates a variety of Cisco technologies to expand your capabilities:

### • Physical security

- Gunshot detection and location
- Video surveillance
- Situational awareness
- Facilities and critical infrastructure protection
- Intrusion detection

### • Unified Communications

- Collaboration
- Command and control
- Crisis communication
- Collaborative workspace

### • IP Interoperability and Collaboration System (IPICS) land mobile radio [LMR] integration

- Automated decision support
- Radio and public switched telephone network (PSTN) interoperability
- First responder emergency notification

### • Digital media services

- Media distribution
- Converged infrastructure

Cisco also works with several industry solution developers to facilitate and provide in COPSS:

- Sensor integration and management
- Video analytics
- Decision support
- Enterprise mass notification
- Unified multi-device alert management
- IP-based desktop alerting
- Response tracking and reporting
- Geographic information system (GIS) framework for common operating picture
- Crisis management
- Physical access control
- Facilities and critical infrastructure protection



### Learn More

For additional information about the solution that helps you leverage your network to gain the benefits of gunfire detection, location, and video surveillance, please contact your Cisco representative or visit:

[www.cisco.com/go/government](http://www.cisco.com/go/government)