

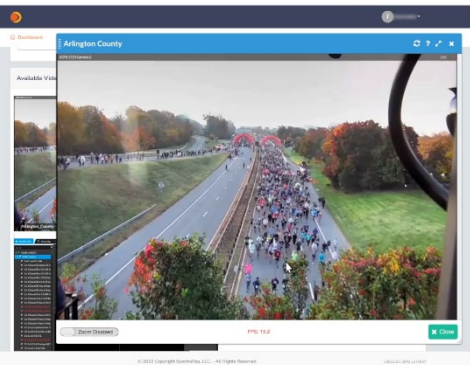


Improved Interagency Sharing of Emergency Communications with SpectraRep's ATSC 3.0 Solution - IncidentOne™ Datacast - for the Marine Corp Marathon 2022

CASE STUDY SUMMARY

Hosted annually in the Arlington, VA and the nation's capital, the **Marine Corps Marathon** brings together over 30,000 participants to support - and be supported by - the men and women of the United States Marine Corps. Covering over 26 miles and crossing state lines, the event requires significant planning and solutions to safeguard participants.

To advance interagency sharing of emergency communications during the Marathon, **SpectraRep's ATSC 3.0 solution, IncidentOne™ Datacast**, was deployed among eight local and federal public safety agencies, including the DC Department of Homeland Security & Emergency Management (DC HSEMA). All data was delivered securely over-the-air without the need for internet or wireless data transmission (LTE) services. SpectraRep's datacasting solution utilized NextGen TV digital broadcast spectrum from the WIAV tower in Northwest DC.



SOLUTION DESCRIPTION

SpectraRep's datacasting technology converts a portion of existing powerful TV broadcast signals (ATSC 1.0 and 3.0) into a one-way, one-to-many reliable, secure wireless network. **For the Marine Corp Marathon, SpectraRep utilized NextGen TV digital broadcast spectrum from their broadcast partner Sinclair/ONE Media to securely deliver emergency communications.**

The deployment builds on years of work with DHS and other public safety agencies to enhance public safety initiatives. SpectraRep also supported public safety during the July 4th celebration on the National Mall in 2022. SpectraRep is actively engaged with agencies around the country to deploy for other tactical and large-scale events.

OBJECTIVES

- Support secure interagency sharing of video, messages, and files during the event without connecting to agencies' secure networks.
- Validate datacasting as a communications tool to support PACE plan (Primary, Alternate, Contingency, Emergency) initiatives.

SOLUTIONS

- SpectraRep deployed ATSC 3 datacasting receivers (along with antennas) to multiple public safety agency facilities to provide access to datacasting messaging and video.
- Select agencies used an online dashboard to view multiple cameras from participating agencies.

OUTCOME

- Participating agencies (including DC-DHS) successfully shared and received encrypted streaming video, targeted alerts, files, and information delivered over the air in ATSC 3.
- Multiple agencies were alerted at one time to a runner missing from the designated course in real time, with description and other identifying information. Communication was shared without internet or LTE service.

Our work to advance public safety communications during the Marine Corps Marathon represents another key deployment of SpectraRep's datacasting solution in the Nation's Capital. We have a 20-year record as a public safety leader, offering ATSC 1.0 datacasting solutions. Now, we are extending our services and capabilities with ATSC 3.0 to deliver the best-in-class technologies to local and federal public safety agencies.

Mark O'Brien, President, SpectraRep



DATACASTING DEFINED

Datacasting is a mature communications technology that uses dedicated, licensed, digital television spectrum and capacity to securely deliver encrypted, and targeted digital video, files and messages simultaneously across a large geographic area.

Secure content can include live video streams (e.g., situational cameras, camera management system outputs, traffic, etc.), image files (e.g., photos, floorplans, maps, GIS overlays, etc.), documents, and alerts. Each asset can be securely targeted to individual receivers or groups of receivers. Targeting is managed by the owner of that content, so they can share without giving up control.



SpectraRep's datacasting technology has been used by public safety entities for over two decades and has recently been enhanced by offering NextGen TV / ATSC 3.0 transmission - improving reception, capacity, mobility, and performance.

Case Study | www.spectrarep.com

SPECTRAREP SOLUTIONS

SpectraRep's **IncidentOne™**

Datacast Solution uses television broadcast (ATSC 1.0 and 3.0) to allow emergency responders to send and receive video, files and alerts *quickly, safely, and securely*.

A content management dashboard is used to manage the encrypted content and control who can receive content. Recipients can securely use or share data with fellow public safety colleagues and even other agencies or responding units without the need for internet or other networks.

Built to support different operational scenarios, additional IncidentOne solutions are available to suit any need or budget:

- ✓ **IncidentOne Console** allows cell phones and tablet users to stream live video and audio from the field back to incident command and operations centers.
- ✓ **IncidentOne Viewer** allows incident command and operations centers to view video, send targeted streams to datacasting receivers, and generate alerts with attachments targeted to datacasting receivers using a simple web-based Dashboard.
- ✓ **IncidentOne Remote Video** allows authorized users to monitor a dynamic set of video/audio streams in an online web-based Dashboard, including content sourced by Mobile Video Publishers, drone/helicopter video feeds, camera management system outputs, and other sources.

SpectraRep is working with law enforcement, emergency managers, school systems and states around the country to implement powerful solutions for public safety.

Contact us to discuss the right service for your local emergency management and PACE requirements: info@spectrarep.com.