Digital Television (DTV) for secure public safety broadband communications

Digital Television datacasting uses normal broadcast television signals to downlink secure public safety video, voice, and data-file content to first and supplementary responders in the DTV coverage area from sources such as dispatch centers or other operations centers.

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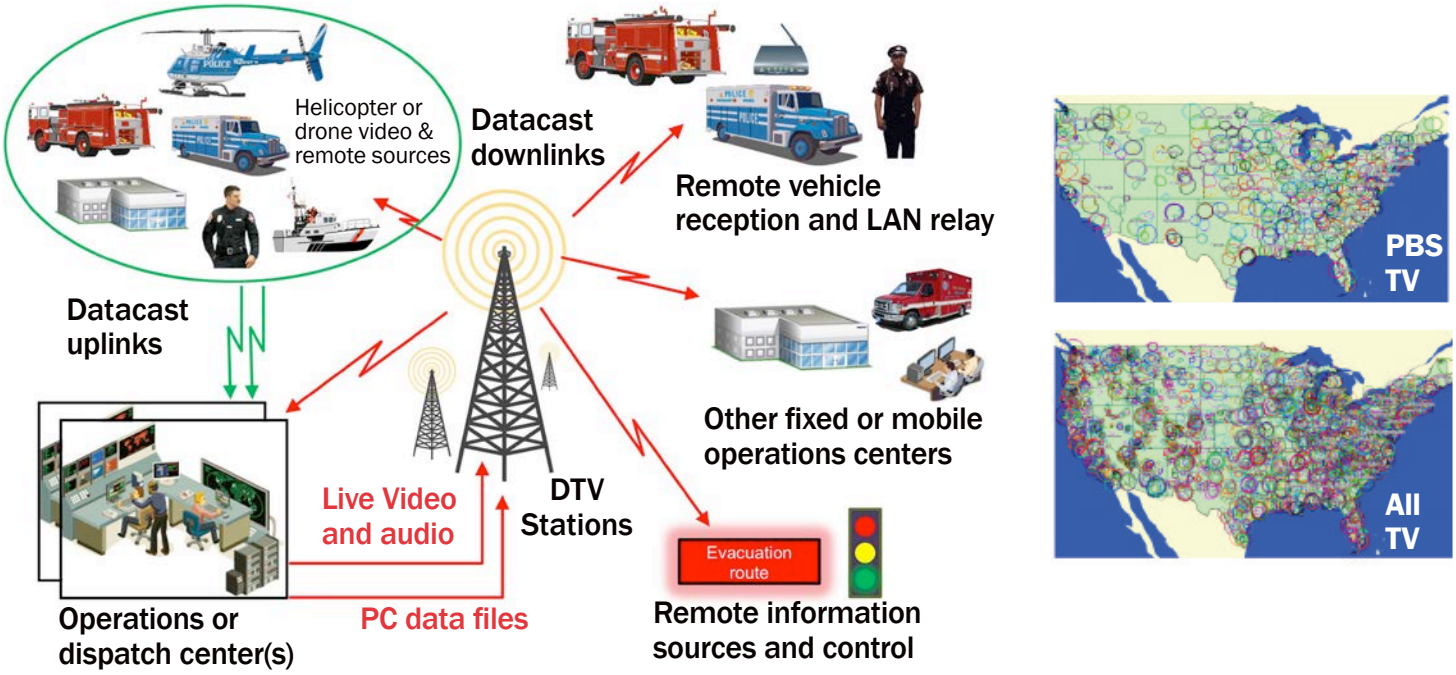

CAPABILITIES

- **Secure**
- **Reliable**
- **Resilient**
- **Inexpensive**
- **Already built out**
- **Efficient delivery of video to multiple endpoints**

Content requests, material pushed for datacast, and content acknowledgement provided integrated on the uplink to the datacast source point(s). Leveraging existing broadcast infrastructure allows quick deployments on licensed spectrums that cannot be compromised by the general public, such as cellular. Datacasting uses television transmitters to deliver computer data, including streamed video, audio, and all Windows-accessible data files. DTV transmitters provide the network; service is provided from computer to computer(s). Broadcasters can allocate capacity for private use and are willing to do so. Television has been delivering video to multiple users for 80 years. It can now be used to deliver secure encrypted targetable information and be integrated with Long-Term Evolution (LTE) and land mobile radio (LMR), such as Project 25 voice and/or data systems.

- **Leverages existing broadcast television transmission infrastructure**
  - Datacast unaffected by cellular or LMR outage
  - Resilient infrastructure (physical and power) operating nationwide
  - Licensed wireless spectrum, not “white space”
  - Highly resilient compared to cellular, PBS satellite backhaul backup
  - Metropolitan, rural, and overwater wide-area coverage today
  - One-to-many broadcast, true multicast downlink
  - Rapidly deployable, installation at WGBH Boston within 2.5 hours
- **All content AES 256 encrypted, can use any encryption desired**
- **Targetable to individual receivers or groups of receivers on the fly**
- **Text messages based on the Common Alerting Protocol (CAP)**

FOR MORE INFORMATION

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