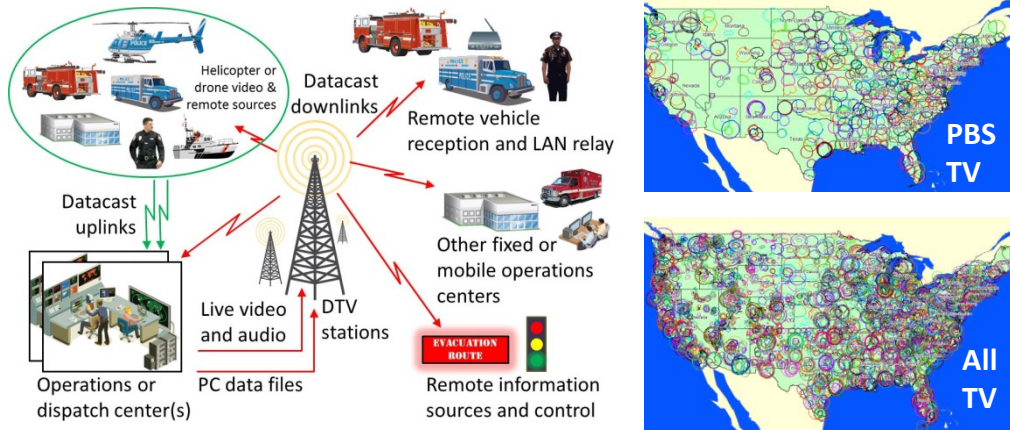


Digital Television (DTV) for secure public safety broadband communications



Digital Television (DTV) 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 or other operations center. Content requests, material pushed for datacast, and content acknowledgement can be integrated and provided on an uplink to the datacast source point(s), if two-way communications is needed. Leveraging existing broadcast infrastructure allows quick deployments on licensed spectrum that cannot be compromised by the general public like cellular. Datacasting uses television transmitters to deliver computer data, including stream 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 Project 25 voice and/or data systems.

Key Features

- Secure
- Reliable
- Resilient
- Inexpensive
- Already built out
- Efficient delivery of video, audio and large data files to multiple endpoints

- Leverages existing broadcast television transmission infrastructure
 - Datacast unaffected by cellular or land mobile radio (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, WGBH Boston deployment in 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 base don the Common Alerting Protocol (CAP)

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For more information

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