MUTUALINK: CAPABILITY DESCRIPTION

Mutualink is developing technologies that allow DHS stakeholders to easily share voice, video and data for cross-agency multimedia collaboration to quickly resolve emergency incidents. This project developed an innovative in-building sensor network based on use of Internet of Public Safety Things (IoPSTTM) wired and wireless sensors. Sensors provide video, audio and environmental data that is used to automatically trigger business-rules-based multimedia collaboration and situational awareness for Public Safety Agencies. More than a dozen state-of-the-art IoPST prototypes were constructed and deployed at the SCITI Labs Developmental Test and Evaluation Event, held at Texas A&M TEEX, and at least two end-customer-driven commercialization deployment opportunities have resulted.

DHS stakeholders are a large user of Mutualink systems to assist in addressing gaps in the following areas:

- Deployment for Mutualink/IGS core services within DHS Components
- Provide immediate and complete continuity among these Department Agencies
- Provides immediate and complete continuity between IGS and IRAPP to state and local authorities
- Provides interoperability enhancements to FirstNet beyond what was statutorily and contractually scoped. Creating a more collaborative capability supporting the Within, Among to State and Local authorities.

MISSION-RELATED USE CASES

Mutualink is developing technologies that allow DHS stakeholders to easily share voice, video and data for cross-agency multimedia collaboration to quickly resolve emergency incidents. Public safety agencies and critical infrastructure organizations use Mutualink’s products and network to achieve secure LMR-to-LMR, LMR-to-LTE interoperable disparate Land Mobile Radio (LMR) bridging, real-time video sharing, and data exchange.
Mutualink

Internet of Public Safety Things

- Systems deployed nationwide to include US territories for COOP/COG mission
- Used today by FEMA NCP, TSA OSO, USCG C4ISR, HSI, and FPS
- FEMA NCP currently working through Authority to Operate (ATO) for IGS
- FEM-07748-MAJ-07748
- USCG currently under deeper evaluation for capability deployment to support land, air, and sea location
- Numerous supporting documents available upon request e.g. DHS exercise reports, FEMA and TSA AARs

PRODUCT SPECIFICATIONS

- Desktop workstations hosted by Mutualink or DHS/FEMA private network
- Radio, Video, Telephony Network Interface Controllers
- EDGE mobile device clients hosted by Mutualink or DHS/FEMA private network
- Mobile drop kits with capabilities listed prior
- Integrations to many 3rd party solutions

SMART CITY INTERNET OF THINGS INNOVATION (SCITI) LABS

The Smart City Internet of Things Innovation (SCITI) Labs program is a collaboration between the U.S. Department of Homeland Security (DHS) Science and Technology Directorate (S&T) and its industry partners to develop smart technologies for public safety and related missions. The program focuses on adapting commercially viable products to meet mission needs in three areas:

- **Smart Buildings**, including sensors and communications;
- **Unmanned Aerial Systems** for indoor and outdoor search and rescue; and
- **Mobile SmartHubs**, combining communications & sensors to increase situational awareness

Mutualink is one of the Smart Buildings technology performers for SCITI labs.

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For more information on Mutualink, visit: https://mutualink.net/