

Mobile Interoperability Workstation

Mobile Interoperability Workstation is an application for mobile Android handheld devices. It is able to create and manage incidents which are created by an agency such as fire, police, hospitals, or government bodies in response to real-world events including life critical situations.

The application is designed to create networks of interoperable communications that are capable of sharing voice, text, radio, data, and telephone communication in a secure environment.

Project Objectives

- Designing an innovative user-friendly interface
- Implementation of streaming audio (VoIP) technologies on the G1 device
- Integration of the device to the multimedia interoperable platform

Technologies

- Google Android SDK v1.5 & 1.6
- Google Android NDK
- SIP, RTP
- XML
- Eclipse IDE
- PassMark Software TestLog
- Seapine TestTrack Pro
- Subversion

Scope

- Requirements Definition
- GUI design and development
- Secure communication with server
- Integration with interoperable platform
- Optimization of text, voice, video exchange for mobile device
- Implementation of streaming audio (VoIP)
- Intercom functionality
- User groups support
- Testing
- 3 person project for 2 month duration

Multimedia Interoperable Platform

Multimedia emergency communications platform enables real-time interoperable communications sharing across disparate communications assets and agencies, including two-way radios, mobile and landline phones, video, and data, on a dynamic invitation and incident basis.



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Project Management

- Weekly updated project plan and budget
- Weekly status call
- Weekly status report
- Web access to Bug Tracking System

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