



SMARTPHONE APPS FOR ON-SCENE ANALYSIS, REPORTING AND SUPPORT OF OPERATIONS, EMERGENCIES AND CRISES

TEXTRON Systems





OPTIMIZED FOR TEAMS REQUIRING REAL-TIME UNDERSTANDING AND SITUATIONAL ANALYSIS OF CHANGING ENVIRONMENTS



InSite™ is a private, secure smartphone application system which provides mobile teams with collaborative capabilities for on-scene operations, situational analysis, emergency management, and resource engagement.

InSite smartphone apps are easily tailored to support any operation and team in need of real-time understanding of dynamically changing environments – such as disaster relief efforts, law enforcement operations, fire and rescue, military missions, as well as state and local emergencies.

The InSite system can be configured to operate within private networks where information assurance and privacy are critical, as well as operate on public networks supporting broad information collaboration needs across organizations and agencies.

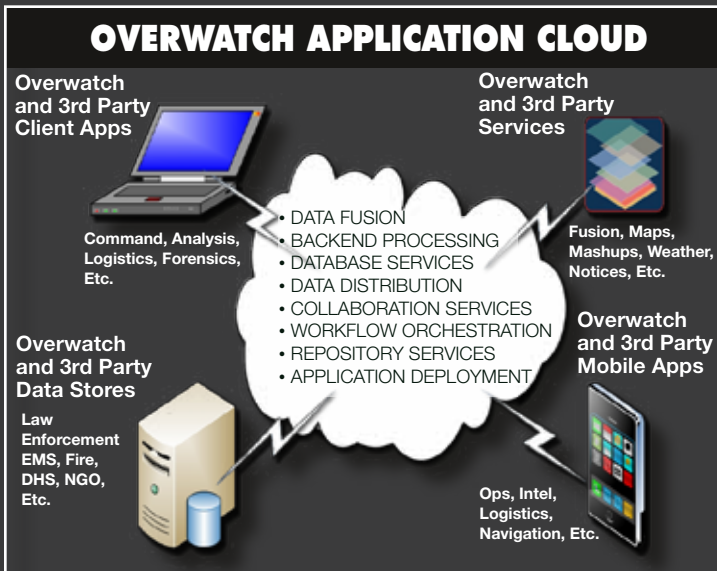
Remote Operations Support

InSite smartphone apps enable real-time collaboration amongst team members, including on-scene personnel; supervisors; decision makers and operations support staff. Information gathered and communicated through InSite smartphone apps (such as video, photos, incident reports and analysis) is time coded and geo-referenced. Integration with advanced information analysis systems and backend support services further enables the creation and sharing of critical information, forensic data analysis and reports amongst team members.

Real-Time Collaborative Apps

InSite smartphone apps empower users with real-time information gathering and sharing capabilities, supported by collaborative communications and analysis services. True 'on-the-scene' augmented reality viewing, mapping and compass capabilities allowing InSite-enabled smartphone users to visually identify and track each of the following and more:

- Physical locations of InSite users on geo-referenced maps
- Locations of relevant people, events, places and resources
- Data compiled and transmitted from analysts and operations centers



Open Architecture

The InSite system includes an open Application Programming Interface (API) enabling continuous improvements to existing capabilities and custom development of 3rd party applications. This model enables customers and developers to maximize the reuse of baseline components to enable access to richer data sources, sensor systems, and 3rd party services. Examples of 3rd party developed enhancements include:

- Integration with new and existing information systems
- Development of new cloud-enabled smartphone applications
- Integration of cloud supported fusion, mashup and mapping capabilities
- Connectors to remote video systems, still cameras, and seismic, acoustic and Infra Red sensor systems

Cloud-Enabled Infrastructure

Supporting every InSite smartphone app is middleware from the Overwatch Cloudwave™ framework. The Cloudwave framework acts as the system core and provides each InSite smartphone app connectivity to a secure personal data network and shared services including map servers, data management services, standard symbology databases and more. The Cloudwave framework provides each InSite smartphone app with the following capabilities:

- Backend processing and business logic
- Creation and transmission of spot reports
- Data fusion, correlation and management support
- User-authenticated communication and reporting
- Forward and reach-back analytical investigation capabilities
- Real-time transmissions of raw and processed data
- Connectivity to internal systems for advanced analysis

3G/4G and WiFi Connectivity

The InSite system is agnostic to service providers and is fully operable within any commercial or private 3G/4G cellular network. The system has been tested on government networks including UTMS, GSM, CDMA, WCDMA, and LTE. The InSite system is also configurable to automate transition to available WiFi networks. An IP based architecture also simplifies the integration of remote IP based sensors, including full motion video sensors on ground and airborne platforms, unattended ground sensors, and other detectors allowing remote alerting and visualization of events.

Continuous Operations

InSite smartphone apps operate as embedded “smart clients” on mobile devices. Information captured or received by an InSite smartphone app is maintained on the phone providing users continuous operation even in disconnected environments. When connectivity is established each app automatically synchronizes with the Cloudwave server. The system then develops an understanding of each user’s critical information needs and prioritizes all information flows for optimal data acquisition and productivity.



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