

GEOINT Services | Mobile Awareness GEOINT Environment (MAGE)

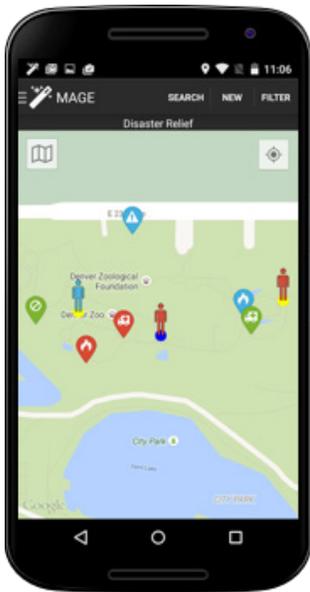
Geospatial Situational Awareness



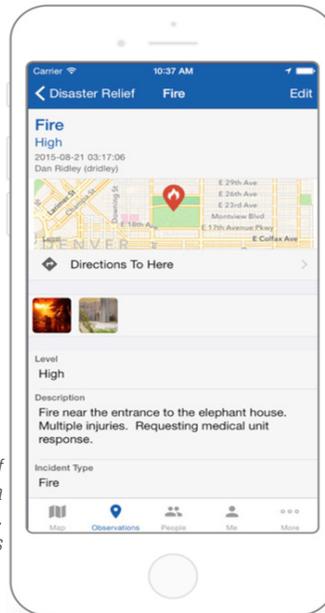
What is MAGE?



MAGE is a mobile app designed to provide situational awareness while operating in a low-bandwidth or disconnected environment. Ideal for disaster response personnel, urban search and rescue teams, and others that need interactive content to assist with their tasks, MAGE users can take geotagged pictures, audio, or video, and use these media files to annotate entries and instantly share that information with others on the team. Users can access MAGE from a variety of mobile devices. Disclaimer: MAGE is an open-source product that NGA has enabled for use throughout the geospatial enterprise.



(Left) Example content of the MAGE app displayed via Android. Disaster relief data. Source: GEOINT Services



(Right) Example content of the MAGE app displayed via iPhone. Disaster relief data. Source: GEOINT Services

What can users do with MAGE?

Using a mobile device's GPS, MAGE can record a user's position in real time. These locations can be automatically shared with other members of the user's team. When disconnected from the network, MAGE will use local data layers to continue providing relevant geospatial information to teammates.

What is GEOINT Services?

The GEOINT Services Office leads NGA's effort to deliver geospatial content and analytics through commonly used, cloud-based geospatial tools. GEOINT services are web-based tools and data that allow customers to find, get, use, and contribute geospatial capabilities, data, and best practices. GEOINT services are available to use across the enterprise.

What are some capabilities available for mission users?

- ▶ Big-data processing and analytics
- ▶ Editable maps of the world
- ▶ Enhanced collaboration
- ▶ Geospatial content management
- ▶ High-performance spatial analytics
- ▶ High-speed streaming of imagery
- ▶ Integrated geospatial content services from multiple sources

How can users access GEOINT services?

NIPRnet: <https://home.gs.mil>

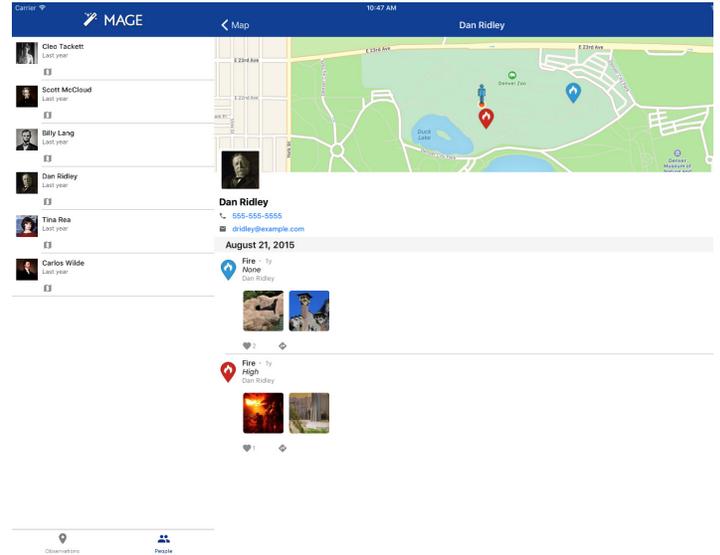
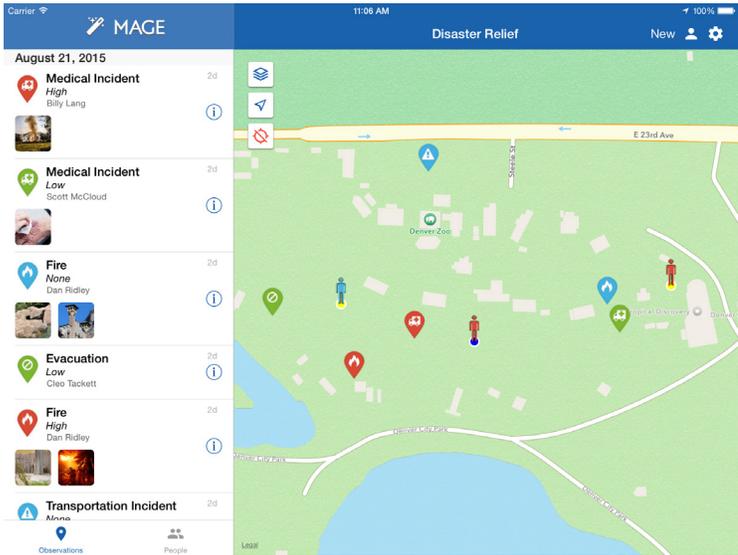
JWICS: <https://home.gs.ic.gov/>



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Example content displays of the MAGE app displayed on an iPad. (Left) Disaster relief data. (Right) Team collaboration. Source: GEOINT Services

Benefits of MAGE

- ▶ The app is customizable and can be tailored to suit a team’s needs.
- ▶ User teams can track assets in the field, live on a map in real time, with available details.
- ▶ The app remains functional even if the device loses its network connection.
- ▶ The app automatically uploads local content when a connection is reestablished.

How can users access MAGE?

MAGE is accessible through GEOINT services and some apps stores:

- ▶ NIPRnet: <https://home.gs.mil>
- ▶ Google Play: <https://play.google.com/store/apps/details?id=mil.nga.giat.mage>
- ▶ iTunes: <https://itunes.apple.com/us/app/m-a-g-e/id1032815042?mt=8>

Impact to mission

- ▶ Using MAGE increases the effectiveness of teams operating in areas with little or no connectivity.
- ▶ MAGE allows users to contribute to critical missions (e.g., disaster response, illicit trafficking, trafficking, humanitarian assistance) at times when connectivity is intermittent.

What data can users produce with MAGE?

MAGE’s utility lies in the datasets that it helps produce. Disconnected (or intermittently connected) MAGE users can conduct their tasks while generating or supplementing datasets that can be used by others. Mobile devices using MAGE can store geospatial data layers, including map tiles and vector data, where they will be available as long as the device has power.

Users can also share geotagged pictures, audio, or video, and use these media files to annotate entries and instantly share that information through MAGE.

For more information

Users can visit https://rocketchat.gs.mil/channel/mage_askanexpert to ask questions or offer enhancement suggestions.

Technology Talk for Developers and IT Managers: How does MAGE work?

MAGE is a dynamic, secure, mobile situational awareness platform that can be rapidly deployed and customized for teams and events. MAGE remains functional even for low-bandwidth and disconnected users, and has a server, web client, Android client, and iOS client. Find more information at (NIPRnet) <http://ngageoint.github.io/MAGE>

NGA.mil for more information