ArcGIS Mission

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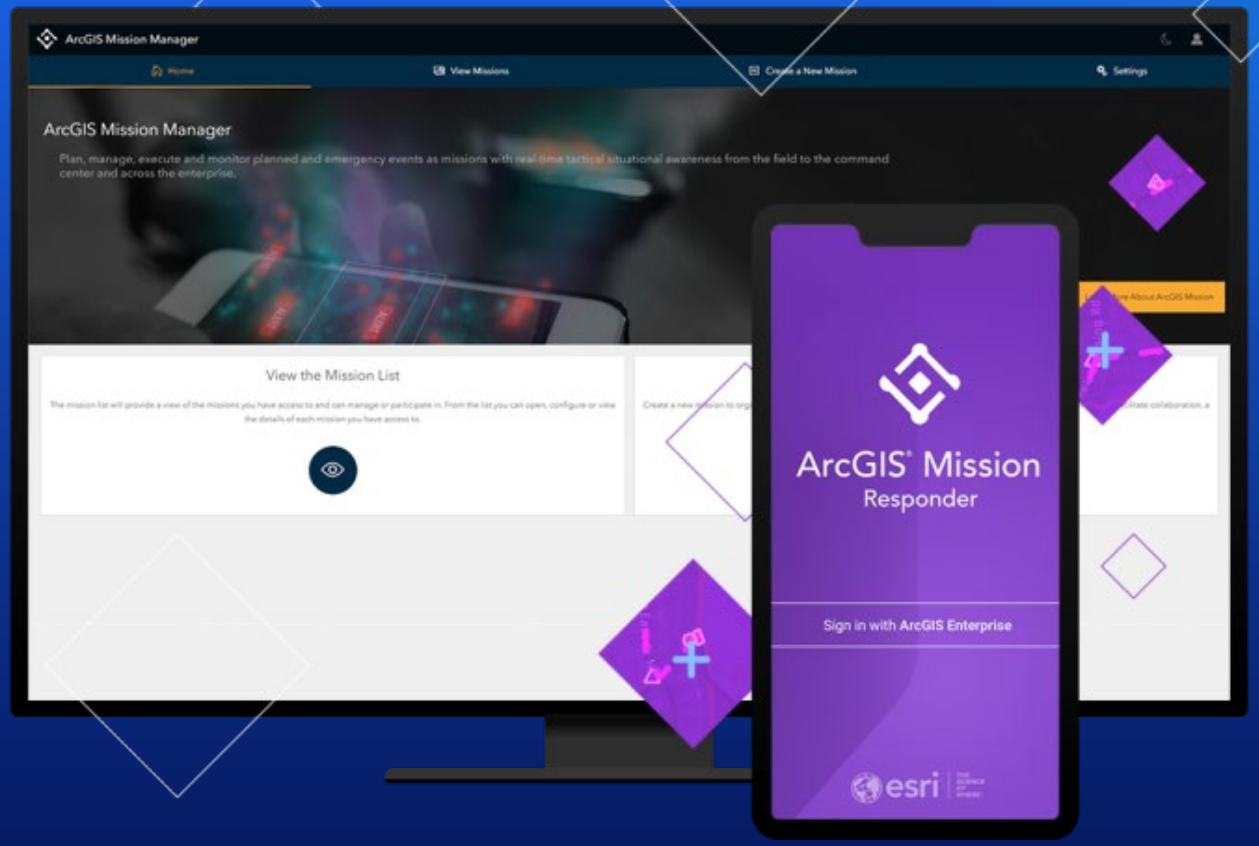
2021 ESRI
DEVELOPER SUMMIT



ArcGIS Mission is an all-inclusive command and control software that streamlines operations while providing teams tactical situational awareness of an operating environment.

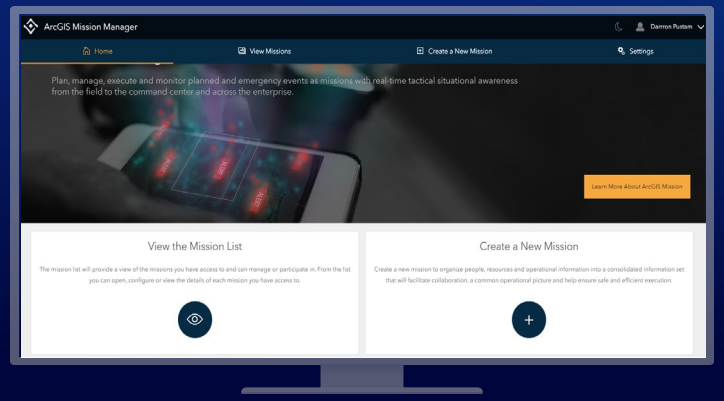
ArcGIS Mission System Requirements

Base Deployment of Enterprise 10.8 or above

ArcGIS Mission Manager

A focused web app that enables you to create and perform mission analysis throughout the mission lifecycle.

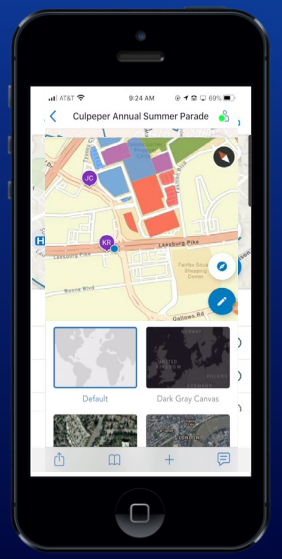
- Creating mission maps – graphics and dynamic reference layers
- Organizing a mission with members and teams
- Providing additional materials – documents and photos
- Tasking and Reporting
- Overseeing field activity & communicating with mission members
- Creating a Mission Dashboard



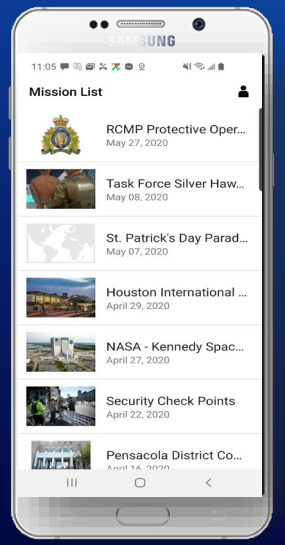
ArcGIS Mission Responder

A focused mobile app on iOS and Android that allows users in the field to participate in active missions.

- Engage with
  - Responder Chat & Geomessages
  - Tasks & Reports
  - Other Mission Members and Team Locations
- Interact with
  - Map Tools
  - Mission Details
  - Mission Teams and Members
  - Additional Materials



iOS



Android

ArcGIS Mission Server

Facilitates communication between Mission Manager users and Mission Responder users.

Key functions include:

- Organizing the presence and availability of everyone on the team
- Populating the location of Responder users onto the mission maps
- Forwarding geomessage data between Manager and Responder
- Transferring data to long-term storage
- Support for the developer experience

ArcGIS Mission is deployable across many sectors

Public Safety Agencies

Health and Human Services Agencies

Transportation Organizations

Corporate Security

Natural Resources Agencies

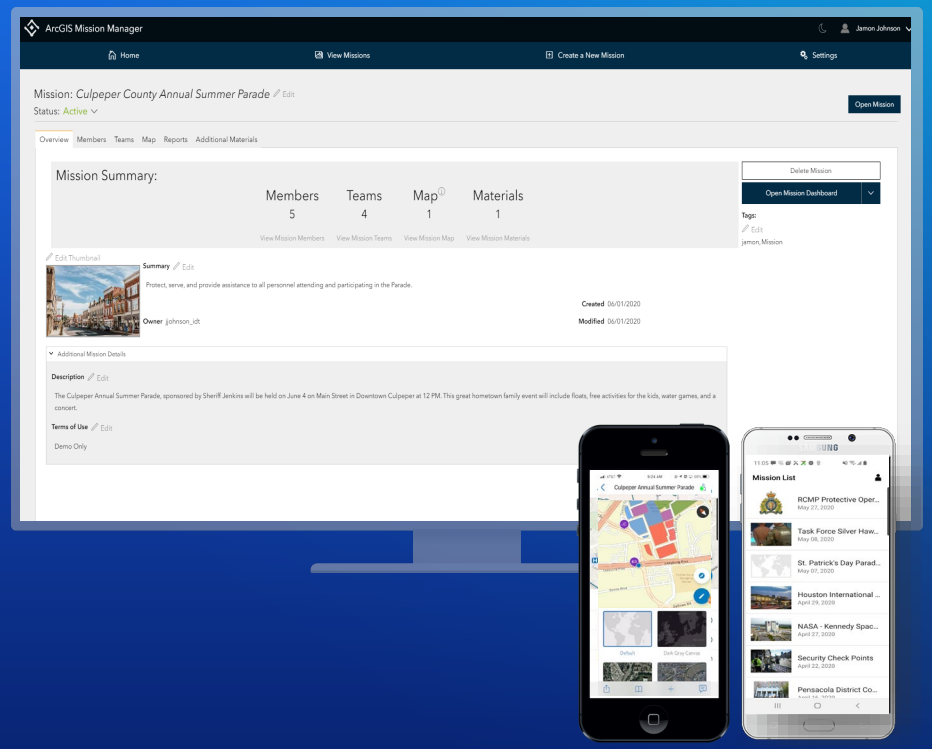
Communicate & Collaborate
I need to be in contact with
my team at all times

Real-Time Updates
It is critical my team
have the latest information

Accountability & Improvement
Our work must be stored
as a system of record

One System
We have consistent workflow patterns
and need a single solution

ArcGIS Mission



Planning

Define Mission
Designate Location
Assemble Teams
Create Dashboard

Missions organize people, resources and operational information into a consolidated picture that facilitates collaboration and helps ensure safe and efficient execution.

ArcGIS Mission

Execute & Manage

Assign Tasks
Track Locations & Activities
Chat & Geomessage
Report Observations

Planning

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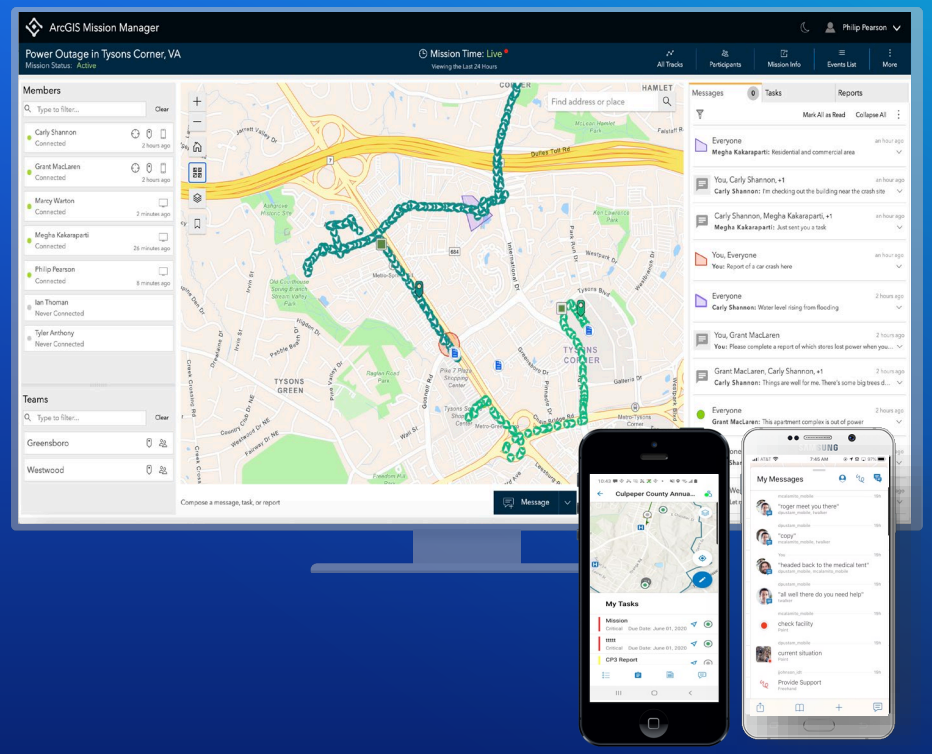

Members of a mission can view and actively participate in a mission. This includes composing chats and geomessages and monitoring all mission activities.

ArcGIS Mission

Replay & Review
Temporal Analysis
Understand Patterns
After Actions Review
Future Mission Planning

Execute & Manage
Assign Tasks
Track Locations & Activities
Chat & Geomessage
Report Observations

Planning
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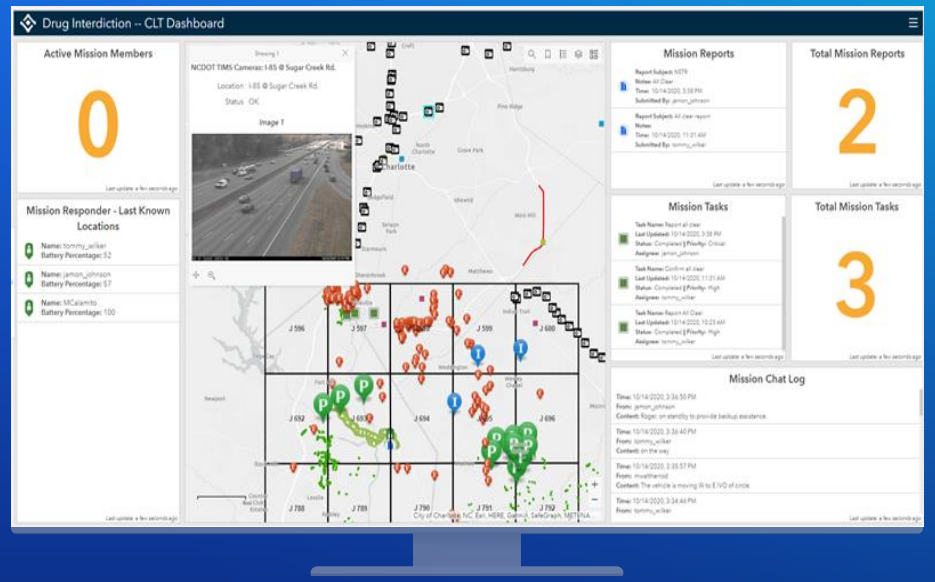


Tailor dashboards to your audiences, giving them information to make informed decisions, visualize trends, and monitor status in real time.

ArcGIS Mission Benefits

Integrated
command and control

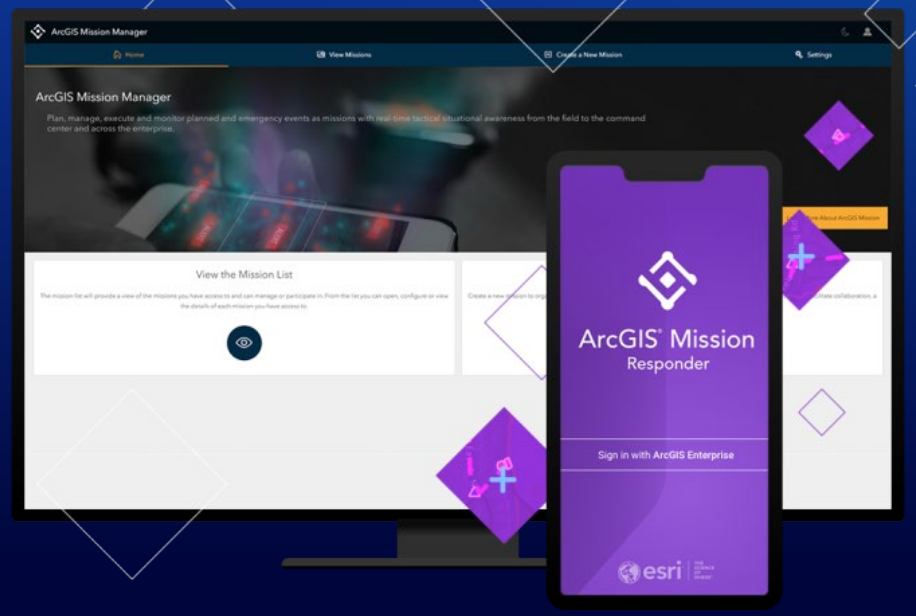
Tactical
team awareness

P2P
communication

Improved
understanding

ArcGIS Enterprise

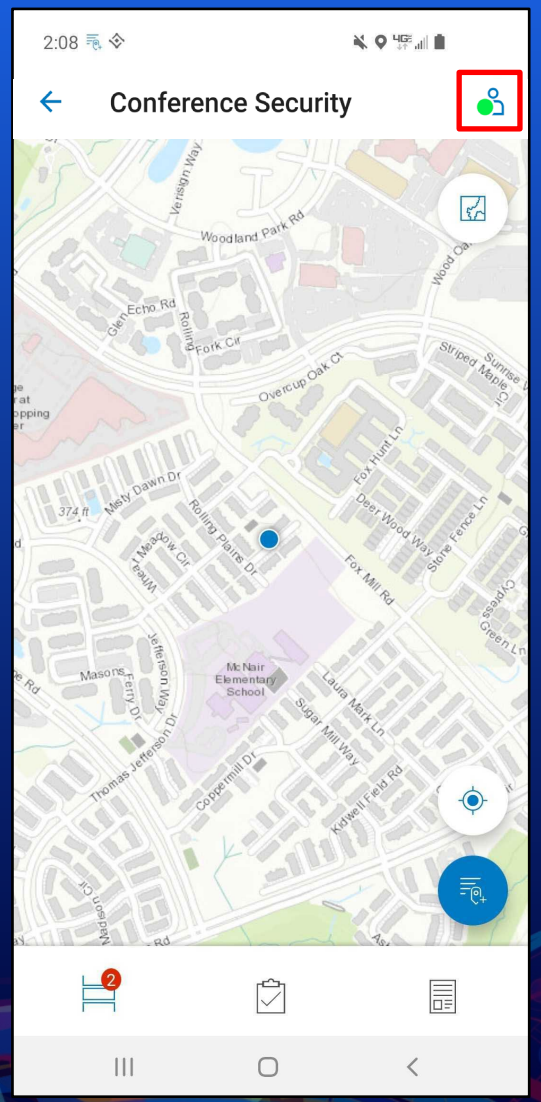
With ArcGIS Mission, organizations will be able to better coordinate their operations, make informed decisions in real time, and unlock new intelligence from completed missions.



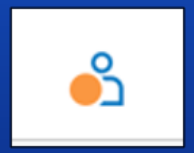
Future Mission Automation

- **Continue to evolve and expand Mission Server's APIs and programmatic access**
  - Public APIs for automating, bulk processing and scripting the creation and management of mission items and related resources
  - Public API for creating a custom Apache Proxy configuration file for additional web tier deployment options
- **Examples**
  - **Adding Custom Reports to a Mission**
    - The Python API v1.9 provides the ability for developers to leverage Mission Server's Add Report API to generate a custom report.
  - **Mission Deletion**
    - Schedule for missions to be deleted after a specified time.

Connection Status



Connected, Active – User is connected to Mission Server, broadcasting their location, and actively participating in a mission.



Connected, Inactive – User has made a connection to Mission Server, but is not broadcasting their location.

Connected, Peer-to-Peer – User is not connected to Mission Server, but is broadcasting their location and connected to other mission members.

Disconnected – User is not connected to Mission Server or any network that would allow communication.

Enterprise 10.9 and Beyond (Planned)

- What’s Next
  - Support for ArcGIS Enterprise Security Configurations
  - Support for Custom, User Defined Mission Reports
  - Extended Support for Peer-to-Peer and Disconnected Workflows
  - Introduction of Analysis-based Map Tools in Mission Manager
  - Evolve and Expand Mission Server's APIs and Programmatic Access

- What's Coming
  - Sensor Integration (i.e. Video, Camera, Body Sensors)
  - Radio Integrations in Austere and Disconnected Environments
  - Mission Planning – Pre Mission Preparation
  - Analytical Tools for Mission Replay

ArcGIS Mission – Connect with the team

Resources:

- Product page - go.esri.com/fed2021/mission-overview
- Documentation - go.esri.com/fed2021/mission-help
- Blogs - go.esri.com/fed2021/mission-blogs
- GeoNet - go.esri.com/fed2021/mission-geonet
- YouTube Playlist - go.esri.com/fed2021/mission-playlist
- LinkedIn - go.esri.com/fed2021/mission-linkedin

Social Buttons:

- Twitter: @ArcGISApps https://twitter.com/ArcGISApps
- Facebook: @ArcGISApps https://www.facebook.com/ArcGISApps/
- Instagram: @ArcGISApps https://www.instagram.com/arcgisapps/

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