Defense Solutions: Overview

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Meet the team
Our Vision

Provide a series of useful maps, apps, and tools that help ArcGIS user in the defense, intelligence, and para-military organizations in the national security space get the most out of their investment in ArcGIS.

We do this by working with our users and other Esri teams to close key technology gaps, taking into consideration:

• Air-gapped networks
• Intermittent connectivity
• Portals behind firewalls
• Required operating standards (military symbology, message formats, etc)
• Program of Record software acquisition
Purpose of Solutions

• ArcGIS Solutions are accelerators for the functionality and value of an ArcGIS deployment for a specific industry
  - Rapid deployment of specific capabilities
  - Quick solutions to common business challenges
  - Launch or expand an organizational mapping portal
  - Establish best practice geospatial workflows within the community

• Solutions are used in many ways
  - Production deployment
  - First iteration of an app
  - Proof of concept
  - Code sample
  - Workflow example
  - Information models
  - Requirements for custom application
Timeline of Defense Solutions

1999
MOLE 1.0 created using MapObjects and ArcView 3.0

2001
Military Analyst 1.0

2006
MA/MOLE Team moved to Defense Services

2009
Team moved to Core Development

2013
Fast display, lightweight mobile developer technology for in-vehicle applications, using C++ Qt SDK.

Project “Archer”
Timeline of Defense Solutions

2011

Qt Efforts in Runtime

2012

Solutions Division

Team joins newly formed Solutions Division

2014

DCGS-A Templates

Released:
• Helicopter Landing Zone

2016

Military Tools for ArcGIS Development

Fast display, lightweight mobile developer technology for in-vehicle applications, using C++ Qt SDK.

Qt efforts became part of ArcGIS Runtime.
ArcGIS Solutions for Defense

Solutions accelerate the adoption of ArcGIS with ready-to-use maps, apps, and tools tailored to specific industry needs.

Documented

Maintained and Supported

Open source

solutions.arcgis.com
What are Solutions?
Ready to use........

• Maps, Apps, Tools, Widgets, Tasks in Pro, etc – templated workflows that we keep current as technology progresses and business needs change
• No additional charge
• Backed by a community
1 MEF G2, ICOP
US Coast Guard
Sacramento Sheriff
Israeli Navy
G2, 4th Infantry Division
85th Civil Affairs
Yuma Proving Ground
1st Topographic Platoon, USMC
Tactical Service Oriented Architecture, USMC
Bundeswehr Geoinformation Center
Boston Regional Intelligence Center (BRIC)
Military Counterintelligence Service, Germany
512th Engineer Detachment, US Army South
Command for Strategic Recon and Joint Imagery Analysis Center, Germany
Coordinated action in response to or in preparation of a developing situation. Personnel operate both mounted and dismounted, often disconnected from the operation center network.

Tailored intelligence to meet the unique challenges presented in each operation. Presenting a common, coordinated intelligence picture by fusing tactical and strategic intelligence and law enforcement info into assessments and estimates.

Movement and maintenance of personnel, material, facilities, and services used in an operational or support role. This includes understanding the operational environment: terrain, weather, and other risks.

A physical groupment of those elements of a general and special staff concerned with the current operations and the support thereof. It usually has sufficient intelligence capability to aid in the process.
Defense Solutions – Military Tools for ArcGIS

Essential, supported, open source, tools that reduce the complexity, cost, and time to create common defense and intelligence geospatial products.
Defense Solutions – Military Tools for ArcGIS

- Visibility analysis
- Distance and Direction calculations
- Coordinate Conversion
- Military Symbol Editor
Defense Solutions - Civil-Military Operations

CMOC / CA Teams
- POPREP (Mobile/Web)
- Atmospherics Questionnaire
- RFI (Mobile/Web)
- Priority AOI & Engagements
- Civil Mission Execution Planner

G2 Functions
- Open Source Reporter
- G2 Atmospherics
- Geospatial
- Foundational Data

CMOC QA/QC
- Civil Affairs Data Manager

CMOC Commanders Update
- Civil-Military Weekly Update
- Civil-Military Ops Dashboard
Defense Solutions at UC

Military Tools for ArcGIS: An Overview

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Creating and Sharing Military Overlays

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Military Tools for ArcGIS in ArcGIS Pro

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Measuring Environmental Impacts on Operations

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Simple maps and apps for tactical operations

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Operations Centers

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Military Tools for ArcGIS for Developers
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