



Army Range Mapper (ARM) - Going Mobile



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Abstract

Army Range Mapper (ARM) - Going Mobile

The Army Range Mapper (ARM) disseminates geospatial data for over 180 military training areas, ranges, Forward Operating Sites and Cooperative Security Locations (FOS/CSL) throughout Europe and Africa via the web. It supports a broad spectrum of users from the war fighter to the environmental professional.

The application, based on ArcGIS Server 9.3.1 JavaScript API resides in a secured multi-tiered environment, served by Image Extension 9.3.1, ArcSDE 9.3.1 Direct Connect (Oracle 10g/11g client), Oracle 10gR2 and IIS 6.0. It provides web mapping capabilities, data analysis and presentation tools.

Compared to previous releases, the ARM is more user-friendly, performs faster and has a higher degree of stability.

Based on today's user habits and technological developments a natural progression is to deliver the ARM to mobile devices, which will give rise to numerous challenges. This presentation highlights the strategy for migrating "ARM" to the mobile environment focusing on security, design, functionality and performance.



Background

- Army – accredited, integrated platform supporting the USAREUR SRP GIS mission online
- Coverage of 200+ training locations (installations, ranges, DZs, Forward Operating Sites, Cooperative Security Locations) across 3 COCOMs
- Disseminates authoritative, standardized geospatial products and services – overlays, imagery, topographic basemaps, PDFs
- Serves as a one-stop-shop for all USAREUR SRP customers – the war fighter community, range safety personnel, environmental GIS analysts



<https://armyrangemapper.eur.army.mil/>





ARM Applications

- ARM
 - Fully featured, enterprise web mapping application
 - Overlay selection, visualization, query, print, trend analysis, user annotation
- ARM Lite
 - Maps embedded in partner websites
 - Focus on visualization, orientation
 - Powered by ARM
 - USAREUR SRP, DA SRP
- ARM Route Finder
 - ARM data hosted in partner website
 - Routing application between installations, training areas, garrisons
 - JMTC
 - Public facing





ARM Mobile Goals and Issues



- Goal
 - ARM tools delivery to mobile devices
 - Disseminate ARM data to mobile devices (data repository - 5 GB store of vector data and more than 15 GB of raster data)

- Issues
 - Client access to ARM requires AKO registered DOD CAC card
 - System on .mil network
 - FOUO data
 - Interface suitability for mobile devices
 - Modular release of tools versus full application release
 - Mobile platform



ARM Mobile Strategy

- Public facing solution
 - JMTC Route Finder
- ARM Mobile apps target specific tools
 - Route Finder
 - Soldier's Field Card
- Application Platform
 - Apple ios 4 and above
 - Android
 - Available in Apple store and soon in Android market place





ARM Mobile

- Apple iOS application
 - iPhone, iPad, iPod Touch compatible
- Facility Search
 - Picklist, auto-complete
 - Germany, Italy, Belgium
- Route plotting, navigation
 - "To Gate" turn by turn routing
 - Distance & time, vehicle / foot
- Other features
 - Location of fuel card-friendly gas stations (Germany)
 - Training support contacts, feedback
 - Base map selection





Main Gate, Patch Barracks





Soldier's Field Card

- Native iPhone application
 - iPad compatible (Apple iOS)
- Guidelines
 - DOs & DON'Ts,
 - Spill Prevention / response,
 - Vehicle movement, etc
- POCs
 - Emergency Numbers
 - Frequencies
 - TSCs
- Maps
 - Overview, Training Area
 - Imagery, topographic basemaps





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Questions and Discussions



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