US Army Europe
GIS for Logistics and Mission Support
7th Army Training Command
US Army Europe (USAREUR) Command
- USAREUR serves a critical role in advancing U.S. interests in Europe

7th Army Training (7ATC) Command
- U.S. Army's largest overseas training command
- Provide combat maneuver and simulation centers, live-fire ranges, classrooms and facilities provide realistic, tailor-made training solutions to U.S., NATO and partner-nation units and leaders
- More than 1,000 theater security cooperation events each year
- Scheduled and unscheduled multinational exercises throughout Europe as part of
  - Operation Atlantic Resolve
  - enhanced Forward Presence (eFP)

Training Support Activity Europe (TSAE)
- TSAE manages the Training Support System Program
- Located in Grafenwoehr, Germany
Mission

US Army Europe (USAREUR)
- Train & prepare
- Strengthen partnerships
- Improve readiness

7th Army Training Command (7ATC)
- Provide dynamic, innovative training
- Develop interoperability
- Support Unified Land Operations

Training Support Activity Europe (TSAE)
- Support home station, rotational, expeditionary
- Manage ranges, LTAs, TADS, VI, DLFs
- Prepare Joint, Multinational forces

USAREUR SRP GIS
Create, analyze, manage & distribute authoritative, standardized geospatial information, products and services for ranges and training lands
USAREUR SRP GIS Geospatial Products

• Static Products
  – Image Maps
  – Military Installation Maps
  – Topographic Maps
  – Soldier Field Cards

• Physical Product Requests
  – ITAM Viewer
  – Installation Specials
  – Raised Relief Maps
  – Demand-driven Maps

• Online Products
  – Tap In Web Mapping Application
  – ARM Mobile Route Finder
  – Soldier Field Card (Mobile)
Web GIS for Logistics & Mission Support

- 7ATC Tap In
- Soldier Field Card (Mobile)
- TSAE Handbook (mobile)
- Mobile Route Finder
Planners and Soldiers Utilize Tap In

- To access resources on USAREUR training facilities in one interface
- View multiple sources of information in one application
- Planning time is reduced
- Operational readiness improved
Application Features

- NIPRNET web mapping application on .mil domain
- Map centric interface for locating and exploring USAREUR training resources
- 1,000+ training support resources (e.g. training areas, ranges, simulators, devices and exercises)
- Document repository for SOPs, handbooks and maps
- Query real time and future RFMSS scheduling data
- Direct reading of location coordinates, MGRS, LAT-LON, and UTM
- Viewing of GIS data layers from SRP, AGOL, National Geospatial-Intelligence Agency (NGA)
- External services such as weather and environmentally sensitive areas
7ATC Tap In

Search for Training Facilities by Keyword

Click on training site icons to access PDF maps, scheduling calendar, field cards, capability briefs and other documentation

Sidebar Menu
- Switch Background Maps
- Add Military Feature overlays
- Add installation maps and imagery
- Tools to measure routes and areas
- Print map to PDF

Scale and MGRS Grid
7ATC Tap In
New Tap In Features

Tap In is continually improving

- CSV Map Data
  - Simple CSV data sources
  - Exercise Series and locations
  - CSV Map Data – Training Area Statistics and Exercises
- Enhanced web service support WMS, WMTS
- New document management architecture (Resource Library)
- RFMSS enhancements
- Enhanced Administration site
- Completely configurable map content
CSV Map Data!

- Map data added and edited in simple CSV files
- Custodians don’t need GIS expertise

### Exercise Series Locations

<table>
<thead>
<tr>
<th>Exercise</th>
<th>Start Date</th>
<th>End Date</th>
<th>Primary Location</th>
<th>Scrubbed Location</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRAVE WARRIOR</td>
<td>9/20/2015</td>
<td>10/27/2015</td>
<td>Veszprem, Hungary</td>
<td>Veszprem, Hungary</td>
<td>17</td>
</tr>
<tr>
<td>HUNTER</td>
<td>9/28/2015</td>
<td>10/9/2015</td>
<td>Lithuania</td>
<td>Lithuania</td>
<td>23</td>
</tr>
<tr>
<td>IRON RESOLVE</td>
<td>9/28/2015</td>
<td>10/3/2015</td>
<td>United Kingdom</td>
<td>United Kingdom</td>
<td>-1</td>
</tr>
<tr>
<td>BLUE FLAG 16</td>
<td>9/30/2015</td>
<td>10/9/2015</td>
<td>Ramstein, Germany</td>
<td>Ramstein, Germany</td>
<td>7</td>
</tr>
<tr>
<td>COMBINED RESOLVE V</td>
<td>10/15/2015</td>
<td>11/15/2015</td>
<td>Hohenfels/Grafenwoehr Training</td>
<td>Grafenwoehr, Germany</td>
<td>11</td>
</tr>
<tr>
<td>ARCTIC ZEPHYR 16</td>
<td>10/19/2015</td>
<td>10/21/2015</td>
<td>Alaska</td>
<td>Alaska, USA</td>
<td>-1</td>
</tr>
<tr>
<td>DIDGIRI</td>
<td>10/15/2015</td>
<td>10/28/2015</td>
<td>Republic of Georgia (GEO)</td>
<td>Republic of Georgia</td>
<td>4</td>
</tr>
<tr>
<td>JUSTICE SWORD 15:2</td>
<td>10/26/2015</td>
<td>11/6/2015</td>
<td>Romania</td>
<td>Romania</td>
<td>24</td>
</tr>
</tbody>
</table>

### Training Area Statistics

- Map Link
- Grafenwoehr MTA Schedule (RFMSS)
- Training Resources
  - Resource Library
  - Show Facilities
  - Show Events
  - Maximum Capabilities
  - Data Inventory
- Feedback
- Link
Resource Library (RL)

Tap In Document Repository

- Growing Rapidly > 2,900 RL folders & 5,000 + files
- Files all related to one or more locations

Current challenges:

- No indexed search
- No management interface
- Needs searchable meta-data and domain types
- Custodians all have full access rights
Resource Library (RL)

Current Tap In Resource Library UI
> Navigate folder content in popup map window
New Resource Library

Administrator Dashboard ➔ Improved File Management
New Resource Library

Indexed search > Find keywords in all documents instantly
Enhanced Tap In Administration

Administrator web interface

Tap In Administrator Menu

Edit Tap In Layer Configuration

Configure CSV Data Fields

Training Area Statistics CSV Fields

Column Name | Column Alias
-------------|-------------
1            | Acres
2            | Sq Km

ARMY STRONG, STRONG EUROPE!
Configurable Map Content

Administration Help
Layer Configuration

Editing the layer configuration tables allows you to customize some of the content in the Tab in info windows. Use the visual guides below to understand which fields affect different parts of the info window.

Regions (TSCs)

Information Window

1. TRAINING SUPPORT (1 OF 2)

TSC GRAFENWOEHR
Location: ROSE BARRACKS
Building: 1008
DSN: 12345
CIV: 12345
Map: 49.6434, 11.7984
MGRS: 32UQA0201702747

Survey Sheet
Map Links
Access/Overview Map
Topo Map
Command Map

Grafenwoehr MTA Schedule (RFMSS)
Training Resources
Feedback
Links

Editing Form

Editing Region
REGION_ID: 23
REGION_NAME: TSC GRAFENWOEHR
BLDG_NUM: 1008
CONTACT1: 12345
IMAGENAME: GRAFENWOEHR
HEAD_PROD_LABEL: https://army.rand
PROD_ACCORD_LABEL: Map Links
PROD_PATH1: https://army.rand
PROD_PATH2: https://army.rand
PROD_PATH3: https://army.rand
SHOWRFMSS: ✔️
RMSS_PARAM: VILS
RES_ACCORD_ENABLED: ✔️
RESOURCE_LIBRARY: TSAE/TSC Graf
FEED_ACCORD_ENABLED: ✔️
URL_ACCORD_ENABLED: ✔️
Country: Germany

Training Support
ROSE BARRACKS
12345
Survey Sheet
Access/Overview
Topo Map
LTA, GTA
Feedback
Links
ARMY STRONG, STRONG EUROPE!

UNCLASSIFIED

Way Ahead

Continue addressing needs of 7ATC and allies
Examine CONUS opportunities
Alignment with OGC, DGIWG, and NATO standards
Mobile apps
Continue centralizing database and configurability
  • Improve data management
  • Increase scalability
Historic data & historic imagery