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To provide a high performance and easy-to-use cross-platform GIS software development kit (SDK) and map/data management server that can be used by customers to develop map-centric applications targeting various defense, e-government, and civilian domains. Examples include Command and Control (C2) Systems, Emergency Management Information Systems, Maritime Navigation Systems, Logistics, and others. The applications customers develop will be able to run on desktop consoles, web browsers, and mobile devices.



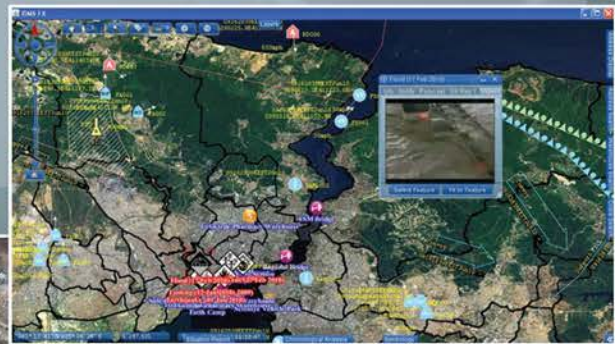
Functions

Desktop and Web SDK

- * Cross Platform (Linux, Windows, Solaris, MacOS)
- * Touch-enabled web & mobile client
- * Standards-based solutions (OGC, ISO)
- * Interactive drawing and annotations
- * NATO Symbology & Tactical Graphics support
- * Supports both S-63 (S-57) and ARCS (Admiralty Raster Chart Service) maritime data
- * Desktop Multicore rendering
- * Flexible Projection & Datum support

GeoBoard Map and Data Management Server Application

- * Raster, Elevation and Vector web services
- * S-63 (S-57) map services
- * OGC WMS and WFS support
- * User Management
- * Chronological Layer support
- * Map sharing among users and roles



Technology Center



Technical Features

Supported Formats

- ESRI Shape (SHP), S-63/S-57, VPF (Vector Product Format), GML, KML, GeoJSON
- Georeferenced Images (TIFF, JPEG, PNG, BMP), Ecw, JPG2000, MrSID, GeoTiff, ARCS (Admiralty Raster Chart Service, UKHO), RPF (CADRG, CIB), Bing Maps, Open Street Maps
- DTED (0,1,2), GeoTIFF Elevation, SRTM
- NSIF 1.0/NITF 2.1, NITF 2.0, OSDEF
- Oracle Spatial, DB2 Spatial Extender, PostGre/PostGIS

Coordinate Reference Systems

- Geodetic, Geocentric, UTM, MGRS, GOREF
- On-the-fly projection and datum transformation support

Map View

- Multi-layered display with layer grouping
- Navigational controls (zoom, pan, rotate, selection, fit)
- Interactive drawing (object palette, object editing)
- Symbol Decluttering (Parametric, Scale Dependent)
- Built-in grid layers (Lat-Lon and UTM) & Compass
- 3-D View UAV Video display

Symbology

- APP-6(B), APP-6(C), APP-6(D)
- MIL-STD 2525B, MIL-STD 2525C, MIL-STD 2525D
- NTDS
- S-52, AML

Analysis

- Spatial Queries (ISO 19125/OGC SFA), LOS (Line Of Sight), Viewshed Analysis, Shortest Path

Radar Video

- Radar Video Display, CAT-240 and radar simulation support
- A-Scope panel display

GeoBoard

- UX-Driven Web-Based Map server and Data Management application to enable to serve large set of geographical data easily
- Large data format ve projection support
- System wide and layer based authorization
- Layer properties and style configuration and map customization
- Chronological layer categorization and date filtered map display
- Black/White border auto-clear support for satellite images
- OGC WMS 1.3.0 ve WFS 1.1.0 standard support



Why?

Cross Platform GIS SDK

NATO Symbology & Tactical Graphics support on web

Easy to create desktop and mobile web applications using same library

Java library that supports both S-63 (S-57) and ARCS (Admiralty Raster Chart Service) map data

UX-Driven Web-Based Map server and Data Management application to enable to serve large set of geographical data easily

S-63 (S-57) web services to display charts in web environment

