Geospatial Vision & Strategy
Modern SOA-based enterprise solutions to geo-enable your entire enterprise

Provide the most advanced and comprehensive geospatial functionality

Innovative products to meet mapping user needs across all geospatial markets

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GeoMedia Smart Client

Easily create and deploy highly-focused, geospatial business workflows

Appropriate tools for the user and task in-hand, and a user interface that matches user roles or specific workflow steps

High-end vector data capture and editing, redlining, analysis, and large-format true-scale plotting.

Advanced geo-caching for performance and disconnected mobile editing

Accuracy in field data capture, supported by data and form validation at update
**GeoMedia Smart Client Product Tiers**

**GeoMedia Smart Client Essentials:**
- Unlimited number of users display raster and vector maps, analyze and query data, print, high-end vector redlining, measure and dimensioning functions
- Client and server caching
- Vector database capability to read ORACLE and Microsoft SQL Server

**GeoMedia Smart Client Advantage:**
- Organization utilizes predefined business process workflows with Workflow Manager - Runtime
- Users edit attributes and push changes back to server

**GeoMedia Smart Client Professional:**
- Organization defines their own workflows or modifies existing ones with Workflow Manager–Editor
GeoMedia® Smart Client

A product of the Intergraph Geospatial Portfolio

Is your GIS a glock in a drawer, stuck in a department, limited to a few, contained and locked away? Between those working with a rigid and technically demanding desktop GIS and a static lightweight browser-based GIS there exists a large potential user base. These users are eager to productively operate their business workflows and ignore the power of GIS.

Geodekta® Smart Client makes your organization progressive, enabling all users to seamlessly integrate geographic data into business workflows. Your end-users will be able to leverage advanced geospatial functionality via simple-to-use map-based tools, streamlining their processes and honing their expertise. These vibrant geospatial business workflows provide a level of sophistication not supported by legacy desktop/hardcopy horizontal software products. With Geodekta® Smart Client, workflow optimization and intuitive web editing will be a reality embraced across your organization.

Online Demo Click here to start our online demo (Username: GMSC/Passwd: 2013). A detailed demo description can be found here.

Java Script (client side) and .NET (server side) API's

The Workflow Javascript API is a Javascript library that allows you to manipulate your workflow forms "on the client side" (that is in the user's browser). This allows you to:
- access items of the form and manipulate them (for example show/hide/enable/enable)
- serialize and submit the entire form or parts of it to the server
- embed dynamic, user-driven form actions in your workflow

Typical use cases for this API include:
- you want the workflow form to respond to user actions (for example hide the "Post Address" form group if the user clicked the "Notification Email" checkbox)
- you want to write custom form field rules, that validate user input on the fly (e.g. an advanced password validator that ensures the entered password consists of more than two uppercase letters).

Getting Started
You want to try before you start developing on our API to set up a suitable Javascript Development environment. We recommend the following tools

Wiki based online documentation

Welcome at GeoMedia Smart Client Wiki

Choose the components
- Installing GeoMedia Smart Client and GeoMedia Smart Client Workflows
- GeoMedia Smart Client Administrator
- GeoMedia Smart Client
- GeoMedia Smart Client Workflows
- GeoMedia Smart Client Plugins
- GeoMedia Smart Client Videos

Tech Blog with tips, tricks and code examples

Mystery log files?

Imagine you get an error somewhere at your Smart Client application (Administrator, Client, Workflows, TileService, SmartClient Service or the MapService) and you don’t know how the error occurred.

Don’t panic!

If you have followed step 20 at the Installation Guide of the GeoMedia Smart Client (modify the security settings for the (winsocks.dll), you will get a few log files, where the reason for the error is written. So there are few log files on the server side.

1. $INSTALL\ProgramFiles\Administrator\Log
2. $INSTALL\ProgramFiles\SmartClient\Log
3. Workflow $INSTALL\ProgramFiles\Workflows\Log
1. **Server side vector cache, DB stored vectors and WebMap connections to image output (RasterBlaster):**

   This server side component allows to generate high quality .png and .jpg files out of vector cache tiles and/or live connections to the supported data bases (ORACLE, SQL Server) and/or WebMap connections which are required for **browser based HTML clients** (e.g. Geospatial Portal) or as map content for **WorkFlow Forms**.

http://www.gis-klagenfurt.at/
1. **Server-side report engine**
   - Create reports with map content and attributes
   - Use online, server-side templates online or file-based reports exported as .pdf, .xlsx and .docx.
3. **Tablet Enhancements** for Windows 8 Pro (digitizer pen is a prerequisite!):
   “Bookmark” left panel, Icon for “Esc”, support of Win8 Geolocation API, “direct” use of GPS coordinate for point data capture via WorkFlows (on- / and offline)

4. **Support Right-To-Left languages in Workflow Manager:**
   GMSC supports Right-To-Left since v2013.
   With v2014 this will be also supported for WorkFlows.

5. **Smart Search:**
   “Single point of input” to search and set legend entries, bookmarks, queries, map center and scale.
6. **Left Panel for Bookmarks:**
   Additional possibility to open or create bookmarks incl. a thumbnail which is generated automatically from the map content.

7. **GMSC for I/CAD customers:**
   GMSC as “secondary” map to the I/CAD map showing the same location automatically or on demand.
   WorkFlow examples to read from and to add “supplemental” information to the I/CAD database.

8. **Share SE based Symbology with GeoMedia Desktop (via Export / Import)**

9. **r/w connection to ESRI Enterprise Geodatabase (ArcSDE “direct connection”)**

10. **Microsoft Bing Maps client side Integration:**
    Client consumes Bing maps content (Streets, Orthophotos and Orthophotos with labels) which appears as a “standard” GMSC layer incl. coordinate transformation “on the fly”.

11. **WMTS client side integration:**
    Client consumes WMTS which appears as a “standard” layer incl. coordinate transformation “on the fly”.

What is ERDAS APOLLO

Catalog, describe, organize and manage volumes of geospatial and related digital data

Discover data assets easily, searching across rich metadata

Access data real-time into any client application

Fine-grain, centralized security including role-based and geographic-based tools to specify security areas

Open, interoperable, customizable, and extensible: a comprehensive IT system to geo-enable your business
ERDAS APOOLLO Product Tiers

ERDAS APOOLLO Professional
- Clip, Zip and Ship LAS-formatted point cloud data
- Server-side geoprocessing (WPS) from thin clients

ERDAS APOOLLO Advantage
- Catalog and deliver massive amounts of geospatial and non-spatial
- Automated data harvesting
- Download and CZS capability
- Geospatial Portal

ERDAS APOOLLO Essentials
- Image delivery system providing the fastest image delivery possible over the web
- Ultra-high-performance ECWP and other standard and proprietary protocols
- Preconfigured thin client
• **Stream NITF files via ECWP and JPIP**
  APOLLO 2014 will detect JPEG2000 compressed NITF code streams and allow these files to be delivered over APOLO’s existing high performance ECWP and JPIP streaming protocols. Full NITF metadata is also delivered, allowing defense organizations worldwide a more efficient way to deliver NTF imagery with full capabilities with less data duplication, less network requirements and faster display performance.

• **New ERDAS Image Compressor to all APOLO 2014 licensees**
  For customers who require a standalone, simple compression tool that works on both Windows and Linux, 2014 has you covered. This tool addresses very basic image compression requirements to make it simple for APOLO customers to convert imagery for efficient storage and delivery in ECW or JPEG2000 formats.

• **Continued Performance and Quality Improvements**
  Not content to rest on our laurels as the most high performance image server, APOLO 2014 continues to add further $XX\%$ speed improvements to the OGC WMS, WMTS, ECWP and JPIP protocols. For customers using recent Intel Xeon platforms, 2014 release also adds AVX CPU hardware acceleration for further performance gains. Deliver your imagery faster to more users with less hardware than ever before with the 2014 release.

• **Expanded integration opportunities**
  With the recent release of the ERDAS ECW JP2 SDK on Mobile platforms together with the technology fusion with MyVR-Software’s mMap SDK, all APOLO customers can now deliver imagery to more platforms than ever before. Mobile developers can use ECWP to deliver fantastic display speeds to support their remote users or leverage APOLO Advantage CZS workflow to extract ECW or JPEG2000 files for offline viewing on mobile devices.
1. APOLLO Advantage & Professional API/SDK

2. Vector Data Management & Geoprocessing
   - **Workflows**: Crawling, Cataloguing, Publishing (WMS & WFS), Clip-Zip-Ship
   - **Input data formats**: Shape, FGDB, GML, DWG, DGN, ORACLE, SQL-Server, PostGIS
   - **WFS output formats**: GML, Shape, KML
   - **WMS output formats**: GIF, PNG, PNG8, JPEG, BMP, TIF
   - **Filtering Operators logical**: PropertyIsLessThan, PropertyIsGreaterThan, PropertyIsLessThanOrEqualTo, PropertyIsGreaterThanOrEqualTo, PropertyIsEqualTo, PropertyIsNotEqualTo, PropertyIsLike, PropertyIsNull, PropertyIsBetween
   - **Filtering Operators spatial**: BBOX, Intersects, Within, Disjoint, GMOverlaps
   - **Filtering Operators**: AND & OR
   - **Styling**: Basic point style, Point symbols, Point labels, Line styles, Polygon style, Basic text styles, Anti-aliasing, Attribute based Symbology, Scale-dependent styling, color classifications based on attributes, Multi-pass rendering
   - **Metadata**: Spatial Extent, Tables/views, Table/view schema, Geometry specifics, Feature count, Identity

3. CR‘s and minor improvements

4. Catalog Federation
Easily build and deploy interactive web sites or web services without programming

Real-time access to enterprise geospatial data with all of the spatial analysis functionality of GeoMedia

Build web sites with powerful, desktop-like functionality

Perform powerful linear referencing and analysis capabilities including routing and dynamic segmentation web services

View, query and analyze geospatial data from many geospatial data formats without any pre-translation
GeoMedia WebMap Product Tiers:

**GeoMedia WebMap Professional:**
- Advanced linear analysis functions like routing and dynamic segmentation

**GeoMedia WebMap Advantage:**
- Bundled with Geospatial Portal to enable advanced client-side functionality
- Read/write data servers to post back data to the central database

**GeoMedia WebMap Essentials:**
- Fully-scalable server solution
- Create web services and web applications
- Real-time enterprise data access, geospatial analysis, and map generation
1. Portal 3D View based on myVR
2. WFS serving 3D geospatial data
3. Portal printing enhancements
4. Geospatial Portal API/SDK including documentation
5. Portal GUI enhancements
6. Additional Portal languages supported
7. Access ESRI File Geodatabase (FGDB)
8. Display engine improvements
Portal 3D View based on myVR Plug-in

- View 3D maps and data
- 3D globe supporting a basemap
- 2D/3D mode switcher
Portal Printing enhancements

Perform print with any connected print service:

- **Local**: basic map printing functionality

- **External**: comparable to local printing but providing more template options to configure legend, overview map, date, titles etc.

- **Portal GUI**: use data source definition dialog to register an external print service, all printing capabilities are available under the same „Print” icon
• Provides APIs, documentation and examples to customize and enhance the Geospatial Portal workflows
• Use in conjunction with all Geospatial Server products that include Geospatial Portal as the client application
GUI enhancements include:

- New skins
- More icons
- Smooth zoom
- Etc..
Additional Portal languages supported

- Geospatial Portal is a multilingual application
- Comes localized to a variety of languages out-of-the-box
- New languages added include:
12. Display engine improvements – Quality improvements for maps generated as raster output PNG files to provide smoother (anti-aliasing) rendering of the input vector geometries:
**What is Geospatial Portal**

Provides one, unified thin-client front end for all geospatial server products in our product portfolio

Ready-to-run, multi-lingual web application for finding, viewing, querying, analyzing, and consuming geospatial data published by Intergraph products and/or other standard web services

Highly configurable and customizable

Simultaneously display maps from different services including secured servers

Provides ISO/OGC compliance and works with INSPIRE discovery, view, download and transformation services
1. Printing enhancements
2. 3D View based on myVR
3. Updating of existing queries
4. Geospatial Portal API/SDK incl. documentation
5. Support APOLLO Vector Data Management theme
6. GUI enhancements
7. Translate to more languages
Perform print with any connected print service:

- **Local**: basic map printing functionality

- **External**: comparable to local printing but providing more template options to configure legend, overview map, date, titles etc.

- **Portal GUI**: use data source definition dialog to register an external print service, all printing capabilities are available under the same „Print” icon
Geospatial Portal - 3D View based on myVR Plug-in

- View 3D maps and data
- 3D globe supporting a basemap
- 2D/3D mode switcher
Geospatial Portal - Updating of existing queries

- Update queries submitted by WFS or WMPS
  - Freely change analysis parameters
  - See updated results immediately on the map and/or data window
  - Once executed, analysis can be altered and updated according to the user needs

All executed analysis are present on the pull-down list

Analyses dialog with new **Update** command button
• Provides APIs, documentation and examples to customize and enhance the Geospatial Portal workflows

• Use in conjunction with all Geospatial Server products that include Geospatial Portal as the client application
GUI enhancements include:

- New skins
- More icons
- Smooth zoom
- Etc..
Geospatial Portal – New language translations

- Geospatial Portal is a multilingual application
- Comes localized to a variety of languages out-of-the-box
- New languages added include:

  - Català
  - Dansk
  - Deutsch
  - Elliniká
  - English
  - Español
  - Français
  - Galego
  - עברית
  - 日本人
  - Polski
  - Português
  - Русский
  - Slovenčina
  - Srpski (Latin)
  - Српски (Cyrillic)
  - 中文
Thank You