Intergraph Geospatial 2013
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Geospatial Server
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1. General issues and goals of the Geospatial v2013 release
2. Improvements for all Geospatial Server products
3. Positioning, Packaging and Scalability of Geospatial Server
4. GeoMedia Smart Client & WorkFlow Manager
5. Live demo GeoMedia Smart Client
6. ERDAS APOOL and ECWP
7. Q&A
The Geospatial Ecosystem

Field Mapping & Update

GIS

Remote Sensing

Users & Consumers

Intranet/Internet

Data

IT

Server

Spatial Database

CAD Engineering Utilities

Satellite Sensor Data

Geo-Portals

Airborne Sensors

Terrestrial Sensors

Google

Microsoft

GeoEye

DigitalGlobe

Spot Image

RadarSat International

Google Earth

Microsoft Bing Maps

Oracle

Microsoft

IBM
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RadarSat International

Geo-Portals

Supporting Systems

GIS

Remote Sensing

IT

Photogrammetry

CAD Engineering Utilities

Supporting Systems

Oracle

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IBM
The Geospatial Ecosystem – Competitive Landscape

Field Mapping & Update

Satellite Sensor Data

GIS

Remote Sensing

Intranet/Internet

Information Products

Web Services

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BAE SYSTEMS

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ENVI

PCI Geomatics

Bentley

Autodesk

Trimble

ESRI

Spatial

Autodesk

OpenGeo

inpho

VEXCEL

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ESRI

Spatial

Autodesk

OpenGeo

inpho

VEXCEL

GeoEye

DigitalGlobe

SPOT Image

RADARSAT International

Google Earth Engine
Intergraph is the first and only company in the world to simultaneously release a complete, robust and united portfolio of GIS, Remote Sensing and Photogrammetry products for desktop, server and web environments.

- 64 products are being released at the same time
- Involving 7 development centers
- Across the globe, the team is operational 24 hours a day during the work week

**United.** Intergraph has unified and streamlined the geospatial technologies needed to complete customer projects on time, on budget while maintaining the highest level of fidelity to our customers needs.

**Modern.** Seizing the design and technology renaissance taking place around us, the Intergraph 2013 release delivers a fresh new approach to using creative and intuitive interfaces, smarter workflows and automated technology so that you are always ahead.

**Dynamic.** As our human, physical and social geography change, the Intergraph Geospatial 2013 release supports the entire information lifecycle of transforming multi-source content into dynamic information which is fresh, active, accurate, portable and relevant.
1. ERDAS and INTERGRAPH integration and interoperability for Geospatial desktop and server

2. New User interface and performance enhancement for GeoMedia® desktop

3. Streamlining and optimization of ERDAS desktop products

4. Next-generation spatial modeling technology

5. Point cloud visualization, analysis and management

6. Performance enhancement and common setup and for all server products

7. More cloud deployment options for server products

8. One harmonized and integrated thin client - Geospatial Portal

9. Functionally improved GeoMedia Smart Client

10. New, harmonized administration console for all geospatial server products
GeoMedia 2013 – New, Modern User Experience
GeoMedia 2013:
United with ERDAS APOLLO for Image Access & Display
<table>
<thead>
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<th>Data Set</th>
<th>Type</th>
<th>Number of records</th>
<th>No Cache (sec)</th>
<th>with Cache (sec)</th>
<th>Load time Improvement</th>
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</tr>
</tbody>
</table>
You can add a GeoMedia Warehouse to the Spatial Model Editor by dragging from the retriever.
Point Cloud Editing

The classification may not be perfect so let's look at a few ways to edit the results.
Let's take a closer look at this oil slick.
Semi-Global Matching (SGM)
Geospatial Server v2013
Georg Hammerer
1. **Massive performance enhancement:**
   Already the entry level (ONE) provides an unlimited number of parallel map processes and Load balancing.

2. **New harmonized Thin Client:**
   - Geospatial Portal (formerly GeoMedia SDI-Portal) is now integrated part of all browser based server products (ERDAS APOLLO, GeoMedia WebMap, Geospatial SDI).
   - Modernized and easy to use user interface that will automatically display in an optimized look and feel depending on the device (PC, Smartphone or Tablet).

3. **New harmonized Administration Console for all server products:**
   A new web-based administration console (based on WorkFlow Manager) enables you to create and configure all aspects of server-side engines, web services and web applications in one place.

4. **Substantial functional improvements:**
   ERDAS and INTERGRAPH integration and interoperability, Cloud Support,… (see more details on the next slides)
New licensing models for Geospatial Server (1)

ONE:
- NO limits on parallel server side processes and Web clients
- Load Balancing (LOB) - multiple servers access able by one IP address (physical or virtual)
- Maximum number of LOB servers is 5 (including the “primary” license)
- Customer must request LOB licenses
- TFB (= SEC secondary) - no commercial - license included

WORKGROUP:
- NO limits on parallel server side processes and Web clients
- Run up to 5 server farms for **different tasks**
- Each farm can run in LOB scenario, up to max 5 servers
- All servers must belong to the same organization and must be located at the same postal address
- 5 task licenses are automatically added to the LAC
- LOB licenses must be requested separately
- TFB (= SEC secondary) - no commercial - license included
Software as a Service (SaaS)

**Definition**: Client users are not members (employees) of the organization that owns the server AND they have to pay for these services.

If a customer wants to **buy** Geospatial Server software to run **his own SaaS** business this is **NOT** allowed with a “standard” ONE or WORKGROUP license -> as written in the EULA for SaaS the customer needs “**written consent**” of Intergraph.

Such a “written consent” can be a single page (signed by Intergraph and the partner) which describes what application he is offering to which customers, in which area for which period.

If the customer benefits (because he also needs e.g. desktop software from Intergraph) from a CLA, this “written consent” can be part of the CLA contract – but a “full” **CLA contract is not mandatory** to use Geospatial Server software in a SaaS scenario.
ERDAS APOLLO v2013

- Licensing is based on numbers of cores – as it was for v2011
- For a harmonized offering 2 bundles were added to the price book for v2013
- ERDAS APOLLO xxx – ONE consist of APOLLO xxx 8 cores and an APOLLO TFB 4 cores
- ERDAS APOLLO xxx – WG consist of APOLLO xxx 16 cores and an APOLLO TFB 8 cores

GeoMedia WebMap Professional v2013

- “standard” offering of ONE- and WORKGROUP-bundles
- r/w connections to ORACLE and SQL Server is already offered with GeoMedia WebMap on the Advantage - level
- for customers who need the full functionality of the Professional level (like Routing, Linear referencing system (LRS) - data model and services,…) but do NOT need load balancing for additional performance and reliability a “new” scalability level can be offered for 42% of the ONE level.
  Load Balancing licenses are NOT available for this offering. To run this product in a load balancing scenario an upgrade to GeoMedia WebMap Professional – ONE is required!
3.1.3 For a Web-based SOFTWARE PRODUCT:

(a) You may run multiple Websites and provide multiple Webservices to your client users with a single license.

(b) You may distribute client side web page plug-ins (e.g., ActiveX controls, Java applets and applications, Enhanced Compressed Wavelet (ECW) plug ins) to Users.

(c) You may load this Web-based SOFTWARE PRODUCT on multiple machines within a cluster that is acting as a single web server, provided you have obtained the applicable number of Load Balancing Licenses or number of Cores from Intergraph and the total number of map servers or number of Cores deployed do not exceed the quantity licensed.

... unlimited parallel server processes and so for unlimited number of users as long as “just” one IP address and “enough” cores or LOB licenses!

3.2.14 For a Web-based SOFTWARE PRODUCT:

(a) You may not use the Web-based SOFTWARE PRODUCT to operate software as a service or hosting without the prior written consent of Intergraph.

(b) You may not use a Load Balancing License (LOB) of the Web-based SOFTWARE PRODUCT detached of its Primary License.

(c) You may not use Primary Licenses (and their allocated Load Balancing Licenses) ordered or delivered under a single part number (e.g. “product name – WORKGROUP”) for other entities or organizations or at a different physical geographic address.

... to protect WORKGROUP licenses

... SaaS is NOT allowed
1.1 "Core" means a physical processor on a computer server that can respond to and execute the basic instructions that drive the computer. A Central Processing Unit (CPU) may have one or more Cores, and a given server may have multiple CPU sockets that may each contain multiple Cores.

3.2.14 For a Web-based SOFTWARE PRODUCT:

(d) Core Restrictions for Intergraph APOLLO SOFTWARE PRODUCT. License fees and installation restrictions for Intergraph APOLLO SOFTWARE PRODUCTS are based on the number of Cores present in the server on which the Intergraph APOLLO SOFTWARE PRODUCTS are installed. Each product can be licensed in multiples of four (4) Cores, up to a maximum thirty-two (32) Cores. You are responsible for determining the number of Cores on your host server and ordering the appropriate number of Core licenses. Each license of an Intergraph APOLLO SOFTWARE PRODUCT must be installed only on a single server. For example, an 8-Core license does not permit you to install two copies of a component, each on a 4-Core server. In a virtualized data processing environment, where hyper-threading, "virtual machine" technology or other similar techniques create "virtual processors" which do not necessarily correspond to the physical Cores present on the server, your usage rights depend on the relationship between the number of Cores for which you are licensed, the number of physical Cores present on the host server, and the number of processors available to the Intergraph APOLLO SOFTWARE PRODUCT in the virtualized environment, as follows: if the number of Cores for which you are licensed equals or exceeds the number of physical Cores present on the host server, then additional virtual processors created by hyper-threading or other methods of multi-tasking a physical Core do not violate your licensing restriction. However, if you wish to install the Intergraph APOLLO SOFTWARE PRODUCT on a host server having a greater number of physical Cores present than the number of Cores for which you are licensed, you must operate the Intergraph APOLLO SOFTWARE PRODUCT only within a "guest" virtual machine that accesses a maximum number of processors (whether virtual, physical or both) that is less than or equal to the number of Cores for which you are licensed.
Geospatial Server 2013: Thin Client runs on mobile devices

- Automatically displays a simplified interface when viewed with a mobile device GUI
- Display, zoom and switch predefined maps
- Show feature attributes (GetFeatureInfo)
- Center the map based on device localization capabilities (GPS, A-GPS)
What is a Smart Client?

Matching the delivery of spatial functionality to users’ abilities and business needs
GeoMedia® Smart Client references in Germany & Austria

> 220 Customer implementations with

> 25,000 Users providing services to

> 30,000,000 Inhabitants & Customers

Customers in Australia, Austria, Brazil, Germany, Italy, Malaysia, Netherlands, USA, New Zealand, Switzerland, Portugal, India, Poland, Canada, Saudi Arabia, …
- **Cities and Municipal Government:**
  Düsseldorf, Stuttgart, Darmstadt, Trier, Klagenfurt, Linz, Salzburg, Wieselburg, Wels, Cracow, Dabrowa Gornicza, Province of Treviso, Region Veneto & Calabria, Santa Maria da Feira, Sisak, Labin,…

- **Federal Authorities and Regional Government:**
  Darmstadt cadastral office, German Federal Rail Authority - EBA, 16 states in Germany, Saxony Police (EOC), state of Vorarlberg (civil protection), Italian National Civil Protection Department - G8 Summit (with SELEX), IACS Austria (Agricultural monitoring & payments), ÖBf AG & SFS (State Forests in Austria & Hungary), Central Goldfield Shire Council, Glen Eira City Council,…

- **Infrastructure companies:**
  SSB (mass transit), NavLog GmbH (road transport logistics), Deutsche Bahn (infrastructure management), mobilkom AG (telecomms), Linz AG, TW Kaiserslautern, ABB - El Merk (gas pipeline), Aurora Energy, …

- **Software as a Service (SaaS) Providers:**
  e.on to 1,000 clients. GISquadrat to 2,500 clients. KRZN Moers to 8,000 clients.
Serving 450 municipalities in Austria with 2,500 Intranet user and additional Internet solutions for more than 10 years

(owned by e.on)

Serving 30 municipal utilities (with several different geospatial apps) and 150 municipalities in southern Germany

Government Computing Centre

Serving 42 government organizations with 250 Workflows for 750,000 land parcels covering 4,000km² and 1.3 million people in Northwest Germany
Overview

GIS Desktop Systems

- ORACLE, SQL Server
- GIS-, CAD-files, OGC Services

GeoMedia Smart Client
Application-Server

GM Library

Smart Client Administrator

Admin- & Meta-data

GeoMedia Smart Clients
via (http) Internet or Intranet
1. Configure **geospatial processes** ("workflow trees") based on XML files
2. Define automatic **validation** and **conditions** for each workflow node
3. Drive (remote control) the Smart Client (map content, area, scale, functions,....)
4. Define **forms** (for queries, analysis, editing, reports, etc.) using XML files including text boxes, check boxes, drop-down lists, context-based help, ...
5. Examinations of the inputs or requirement of mandatory fields and pick lists
6. **Integrate external applications** on the server side
7. Define workflow steps and forms based on **user- & rights-management** including connection to Active Directory or LDAP
8. **Monitor, control and execute** asynchronous (decoupled) processes like server-side map production, data import, export & supply for downloads,....
10. Client: HTML based via Java “integrated” Browser (WebKit)
1. Supports vector (GDO+) and raster data (png, jpg) on the client side

2. Very fast, intelligent geo-data caching & tiling (raster and vector) in use since 1999

3. Modern map control for navigation & smooth (Google maps like) map loading

4. No 3rd party dependencies on software, browser or operating system

5. GMSC can work offline - for mobile tasks or if connectivity is lost

6. Capture, edit, redline, measure, server and client-side queries, bookmarks,…

7. Advanced printing on the client side (including rotated views and up-to A0)

8. Workflow Manager (including Form-Generator and Task-Dispatcher) to handle complex processes step-by-step (“rapid” project configuration and implementation)

9. Proven interfaces to integrate Smart Client with other web- or desktop applications

10. High-level enterprise administration for users, roles, rights, functions, projects, etc…
GeoMedia Smart Client v2013

GeoMedia Smart Client Professional: includes all the functionality of GeoMedia Smart Client Advantage and the ability for an organization to define their own workflows or modify existing ones (includes Workflow Manager–Editor).

GeoMedia Smart Client Advantage: includes all the functionality of GeoMedia Smart Client Essentials and the ability to utilize predefined business process workflows and edit data. The additional Workflow Manager–Runtime enables customers to run pre-built workflows, edit attributes or capture and change spatial data on the web client and push the changes back to the server.

GeoMedia Smart Client Essentials: ability for an unlimited number of users to display raster- and vector maps, analyze and query data, print, high-end vector redlining, measure- and dimensioning-functions. Client- & server geo-caching for raster and vector data to ensure high performance.

Vector database capability to read ORACLE and Microsoft SQL Server. Raster format support includes TIFF, JPG, PNG.
• **Offline Attributive Data Capturing and Synchronization:**
  With GeoMedia Smart Client 2013 you can define disconnected workflows that will enable your end users to capture and edit attributive and spatial data while offline from the internet. A synchronization process enables GeoMedia Smart Client to post edits when the client reconnects. Project-based conflict handling can be added through workflow definitions.

• **ERDAS APOLLO Essentials Integration:**
  You can now deliver and display raster backdrops based on the ECWP streaming protocol, provided by ERDAS APOLLO Essentials. Customers covering large areas won’t have to publish and update the raster backgrounds for different scale ranges anymore. It also substantially reduces the volume requirements of the client cache.

• **Enhancements for capture- and display functionality:**
  Digitizing of existing geometry, data capture via GPS connection, keyboard support for navigation commands, dynamic display of street networks, …

• **Workflow Manager function-, API- and documentation Enhancements:**
  Additional functions and API commands enable faster and more flexible workflow configuration. Improved documentation plus “cookbooks” with examples for workflow configurations for searching, capturing geometry and integrating web services.

• **Support for Geographic Coordinates and Custom Coordinate Systems:**
  direct support for geographic coordinates (latitude/longitude) and custom coordinate systems in the primary database.
Geospatial Server 2013: Offline Editing in GeoMedia Smart Client
GeoMedia® Smart Client

A product of the Intergraph Geospatial Portfolio

is your GIS at a gridlock, 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 light-weight browser-based GIS there exists a large potential user base. These users are eager to geospatially accelerate their business workflows and ignite the power of GIS.

GeoMedia® Smart Client makes your organization progressive, enabling all users to seamlessly integrate geographic changes into configurable 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 out-of-the-box horizontal software products. With GeoMedia® 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 / Password: 2013). A detailed demo description can be found here.

Miscellaneous

- Intergraph Web Site
- Intergraph Geospatial Product Portfolio Web Site
- Intergraph Geospatial products
- Intergraph support

Resources

- Documentation
- Tech Blog
- Localization
- Tutorial: How to localize Smart Client
- .NET API Reference
- JavaScript API Reference

http://smartclient.intergraph.at/GMSC/en/
Mystery log files?

Imagine you get an error somewhere at your Smart Client application (Administrator, Client, Workflows, TileService, SmartClientService 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 NetworkService), you will get a few log files, where the reason for your error is written. So there are five log files on the server side.

1. Administrator (GMSC_Install_Dir|Program|Administrator|Log)
2. SmartClient Services (GMSC_Install_Dir|Program|Log)
3. Workflow (GMSC_Install_Dir|Program|Workflows|Log)
4. MapService (GMSC_Install_Dir|Program|Map|Log)
5. Tile Service (GMSC_Install_Dir|Program|TileService|Log)

On the client side you can find the log file at
(C:sers\UserName\AppData\Local\Temp\log). You don’t have necessarily go to this folder to get detailed information about the error of the client. This specific log file can be opened in the Smart Client itself (How to? Read here)

Continue Reading →
How to localize GeoMedia Smart Client?

This chapter describes how to localize GeoMedia Smart Client.

<table>
<thead>
<tr>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 General</td>
</tr>
<tr>
<td>2 Localization workflow</td>
</tr>
<tr>
<td>2.1 Create an account</td>
</tr>
<tr>
<td>2.2 Localize the product</td>
</tr>
<tr>
<td>2.3 Download the language pack and integrate it in the local GeoMedia Smart Client installation</td>
</tr>
</tbody>
</table>

General

The GeoMedia Smart Client ecosystem offers you a Web-based solution to do the localization of the product. You can create or change your own localization independently of the product release cycles, and you can easily integrate them to your local Smart Client installation.

Localization workflow

Create an account

To protect the localization workflow against unauthorized access, you have to create a user account:

- Browse to http://smartclient.intergraph.asl10/.

Open the register form on the bottom left of the login screen.

Type in your account information and save it.

Intergraph will check the account information provided by you, and an email will notify you as soon as your account is ready to use.
Client-Side Validation

Client-side validation allows the Workflow Author to catch common form completion errors BEFORE the form content is passed to the server. This adds form completion for the user. GMSC Admin provides an extensible validation interface that is implemented with validators. A validator is a Javascript function that receives the current value of a form field as parameter, examines it with a specific business logic and either returns true (validation passed) or false (validation not passed, display error message). Each validator is uniquely identified by a name and also includes a localizable error message.

Built-in Validators

The following validators are provided out of the box in GMSC Workflows:

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<th>Validator</th>
<th>Example</th>
<th>Description</th>
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</thead>
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<tr>
<td>required</td>
<td>(required: true)</td>
<td>Form field must not be empty or unchecked (checkboxes).</td>
</tr>
<tr>
<td>minlength</td>
<td>(minlength: 3)</td>
<td>Form field has to contain at least n chars.</td>
</tr>
<tr>
<td>maxlength</td>
<td>(maxlength: 9)</td>
<td>Form field can only contain up to n chars.</td>
</tr>
<tr>
<td>rangelength</td>
<td>(rangelength: [3,9])</td>
<td>Form field has to contain 3 to 9 chars.</td>
</tr>
<tr>
<td>min</td>
<td>(min: 10)</td>
<td>Number in the form field must be greater than n.</td>
</tr>
<tr>
<td>max</td>
<td>(max: 200)</td>
<td>Number in the form field must be less than n.</td>
</tr>
<tr>
<td>range</td>
<td>(range: [1, 9])</td>
<td>Number in the form field must be in the range between n and m.</td>
</tr>
<tr>
<td>email</td>
<td>(email: true)</td>
<td>Form field must contain a valid email address (the existence of the email address is not checked).</td>
</tr>
<tr>
<td>url</td>
<td>(url: true)</td>
<td>Form field must contain a valid url (the existence of the url is not checked).</td>
</tr>
<tr>
<td>datetrange</td>
<td>([10.08.2006, null])</td>
<td>Limits the accepted date input to the given range &quot;today&quot; = date of today, &quot;lastyear&quot; = range of last year.</td>
</tr>
</tbody>
</table>
GeoMedia Smart Client

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
Cookbooks/Tutorials/How-To’s
GeoMedia Smart Client Videos

GeoMedia Smart Client - Offline-Help

1. GeoMedia Smart Client 7.1: GeoMedia Smart Client.pdf
2. GeoMedia Smart Client 2013: GeoMedia Smart Client 2013.pdf - Please note, that this offline documentation can be out of sync with the online help. Check the footprint of the pdf to see when the file was generated.
Live demo
GeoMedia Smart Client
Georg Hammerer
APOLLO and ECWP
Kwong Ki

SMARTER DECISIONS
GeoMedia Smart Client
Project examples
NAVLOG Germany

- Joint Project of German forestry and timber industry
- execution of German wide sustainable truck routing dataset
- logistic benefit to support value chain for forestry and timber industry
- capture of 500,000 km routable forest roads and connect them to NAVTEQ dataset
- ca. 5,000 GeoMedia Smart Client users

**figures & facts Germany**

110,000 km² forest
3.4 Mrd. m³ wood pool of orders
1.2 Mio. truck loads p.a. => 300 Mio. € costs

**cluster forest & timber**

185,000 companies
1.3 Mio. employee
181 Mrd. € revenue
### Neue Forstwege können hier erfasst werden.

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<td>Standard LKW-Weg mit Lenkungsfunktion</td>
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<td>nein</td>
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<td>Einschränkende Höhe [m]:</td>
<td>5</td>
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<tr>
<td>Einschränkende Fahrbahnbreite [m]:</td>
<td>4</td>
</tr>
</tbody>
</table>

**Kommentar:**

[Speichern] [Abort]
With GeoMedia Smart Client, GeoMedia WebMap (for LRS) and 50 Workflows the City of Stuttgart (Germany) is running a Web based infrastructure and asset management for their city trains since 2007.

data:
- 243 km of Track, 805 Stops, 509 Switches
- 4,728 Power Masts, 550 Signals, 210 CCTV Cameras
- 430 km Bus Network, Bus Shelter
- 1,500 Underground Rooms
- Ticket Machines, Lighting, Barriers, Level Crossings

This solution is already used by several other customers like city of Frankfurt, city of Linz, Rhein-Neckar-Verkehr,…
GeoMedia ResPublica Intranet (v06.07.02) - VGF

Wechselnummer

Gleisdaten: Gleisnummer, Gleisname, Gleisart, Gleislänge, Anzahl der Gleise, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächsten Station, Gleisnummer der vorherigen Station, Gleisnummer der nächste

INNENSTADT

ALTSTADT

Deutschherrenviertel
GeoMedia ResPublica Intranet [v06.07.02] - SSB-Gesamt

Abfragen | Messen | Workflows 1 | Workflows 2 | Abfrage (räumlich) | Bemaßung | Drucken | FeatureInspector | Zeichnen
---|---|---|---|---|---|---|---|---

U13 | Stadtplan
U14 | Stadtplan
U15 | Stadtplan
U15E | Bus
U16 | Stadtplan
U17 | Stadtplan
U18 | Stadtplan

Ergebnis Richtung:
U15: Mönchfeld -> Heumaden (HM)
U15: Heumaden -> Mönchfeld (MD)

Report:
- Anzahl_Linienschilder
- Linienschilder

Aktiv: Haltetermine

M = 1:1 000 G3 513 46...: 5 404 24...
IACS (Integrated Administrative Control System)
Controls EU agricultural payments to farmers ~ 2 Billion US$ per year. Agrarmarkt Austria (AMA) is responsible for controlling these payments in Austria.

data:
- 6 Mil. Land parcels
- 4 Mil. Agricultural land use areas (captured twice each year!)
- 120 Mil. GRID areas
- 5.5 TB Orthophotos (covering ~ 70% of Austria)

users:
- 155,000 farmers
- 150 AMA offices (for admin support and field control)

GeoMedia Smart Client is used to capture the parcel extents and attributes via the Web and produce 500,000 color prints (A3) twice a year!
Erfassen sie die Details zum ausgewählten Schlag:

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<th>Feldstücknummer:</th>
<th>101</th>
<th>Feldstückgröße:</th>
<th>3 [ha]</th>
<th>25 [m]</th>
<th>Feldstücknutzungart:</th>
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<td>103</td>
<td>Schlagnutzungart:</td>
<td>KÖTHERING</td>
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<td>voraussichtlicher Ertrag [kg/ha]</td>
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Achtung: Applet-Fenster