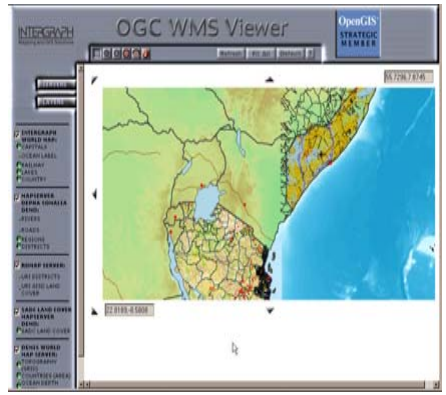
4th GML Relay

26 januari 2006



Frank Langelaan

INTERGRAPH

Agenda

- Intergraph & OGC
- Interoperability
- Webservices
  - Data Interoperability & Application Interoperability
  - Web Map Service
  - Web Feature Service
- GML relay

Intergraph

- 37 years GIS experience,
  - Software & Services
  - End-to-end Solutions,
  - Specific markets
- Innovative Technology
- Totally Open GIS
- Global Presence,
  - 4300 employees in
  - 65 countries
- Large and growing customer base

Intergraph's Mission

Intergraph's proven solutions empower governments and businesses around the world to make better and faster decisions, enabling them to create and view complex information in an understandable way.

Intergraph Business Overview

Spatial Information Management (SIM)

Security, Government & Infrastructure	Process, Power & Marine
Geospatially-enabled security, military and infrastructure software & services *Annual Revenue: $400 million*	Industry-leading plant & ship design and information management software *Annual Revenue: $150 million*

- Public safety agencies protecting hundreds of millions of people around the world
- National, regional and local governments in 80% of the world's largest countries
- 39 of the 50 state departments of transportation in the United States
- 30 of the top 35 Fortune Global 500 chemical, petroleum & pharmaceutical companies

Intergraph Security Government & Infrastructure

- Total Solutions specifically for:
  - Local, Regional, Federal and National government
  - Public Safety
  - Utility & Telecom
  - Transport
  - Defense
  - Remote Sensing & Fotogrammetry

Open GeoSpatial Consortium

INTERGRAPH

25th Septembre 1994

Principal members:

Autodesk, Inc.
Boeing S&IS Mission Systems
Department of Science & Technology
ESRI
GeoConnections Secretariat
Google
Intergraph Corporation
MapInfo Corporation
Northrop Grumman Corporation
Oracle Inc.
PCI Geomatics Inc.
US Army Corps of Engineers (ACE)
US Geological Survey (USGS) National Mapping Division

http://www.opengeospatial.org/about/?page=members&view=Level

Intergraph's relation to OGC

- Intergraph is **Founding and Principal member** of the Open Geospatial Consortium Inc. (OGC).
- Intergraph takes an undeniable lead in **supporting interoperable solutions** that "geo-enable" mainstream IT and the Web. Intergraph's long-standing support of OGC, coupled with the top membership level, affirms its **strong commitment to open geospatial interoperability.**
- "Intergraph's membership in OGC coincides with our commitment to provide open, extensible geospatial technology for mapping, GIS, and IT professionals in the global industries we serve," said Preetha Pulusani, President, Security, Government & Infrastructure and **a member of the OGC board of directors.**
- Intergraph provides **significant resources** over and above those provided by other members. Special functions include taking an active role in setting the **direction of OGC technology specification activities** and facilitating the use and acceptance of its technology in markets of strategic value to the OGC and its member organizations.
- Intergraph has entered into an **agreement** to work closely with the Consortium's members and staff to **create special programs** designed to enhance effectiveness in selected areas of OGC operation.
- Intergraph is dedicating a staff resource to OGC, focusing on advancing interoperability in the area of **Critical Infrastructure Protection.**
- Intergraph engages in strategic planning as a member of both the **OGC Planning Committee** and the **OGC Strategic Advisory Committee**. The company also participates in **OGC Technical Committee programs** to collaboratively define and approve spatial interface specifications that support interoperability.

Interoperability

INTERGRAPH

OGC Interoperability & Intergraph

Interoperability Extensions - FREE!

- Applicatie interoperability met WMS, WFS, GML.

Oracle Interoperability Initiative – FREE!

- Data interoperability op Oracle Spatial (Oracle, LaserScan, Autodesk, MapInfo en Intergraph Interoperability Kit)

Open Interoperability Grant Program

- bevorderen van interoperability initiatieven

WMS Viewer Source Code - FREE

Open Geospatial Network

Interoperability Whitepapers

Interoperability Program

http://imgs.intergraph.com/interop/extensions.asp

Intergraph- Free Interoperability Extensions - Microsoft Internet Explorer
File Edit View Favorites Tools Help
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Address http://imgs.intergraph.com/interop/extensions.asp
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Mapping and Geospatial Solutions

Overview
Open Interoperability Grant Program
Interoperability Extensions- FREE!
Oracle Interoperability Initiative
WMS Viewer Source Code - FREE
Open Geospatial Network
Interoperability Whitepapers

Interoperability Program

Download Interoperability Extensions FREE!

Intergraph Mapping and Geospatial Solutions offers the following interoperability extensions FREE, available for download from this section. You may want to bookmark this page and check back periodically for updates and notices.

For questions and feedback, please e-mail us at interop@intergraph.com.

Please make your selection
- Please make your selection
- GML Data Server
- WFS Data Server
- WMS Data Server
- Export To GML Service
- Export To GML Command
- WMS Adapter Kit (OGC Compliant)
- WFS Adapter Kit (OGC Compliant)

Internet

Intergraph-WMS Viewer Source Code - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media

Address http://imgs.intergraph.com/interop/wmsviewer.asp Go

Search Code Passport Interoperability Online Data Reference Download

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Worldwide

Mapping and Geospatial Solutions

- Overview
- Open Interoperability Grant Program
- Interoperability Extensions- FREE!
- Oracle Interoperability Initiative
- WMS Viewer Source Code - FREE
- Open Geospatial Network
- Interoperability Whitepapers

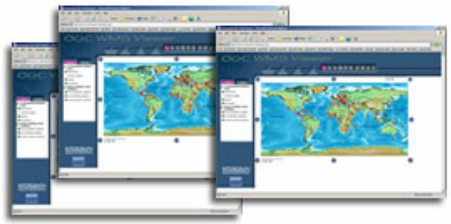
Interoperability Program

WMS Viewer Source Code

The power of open interoperability is rising to the forefront of organizations worldwide, providing an invaluable tool by helping organizations work more efficiently, moving data enterprisewide - regardless of data format or location. In keeping with Intergraph's continued commitment to promoting data access and sharing among organizations and agencies, we announce our newest interoperability initiative, which makes source code from our established Web Map Server (WMS) Viewer (www.wmsviewer.com) available to the community at large.

Sharing the WMS Viewer

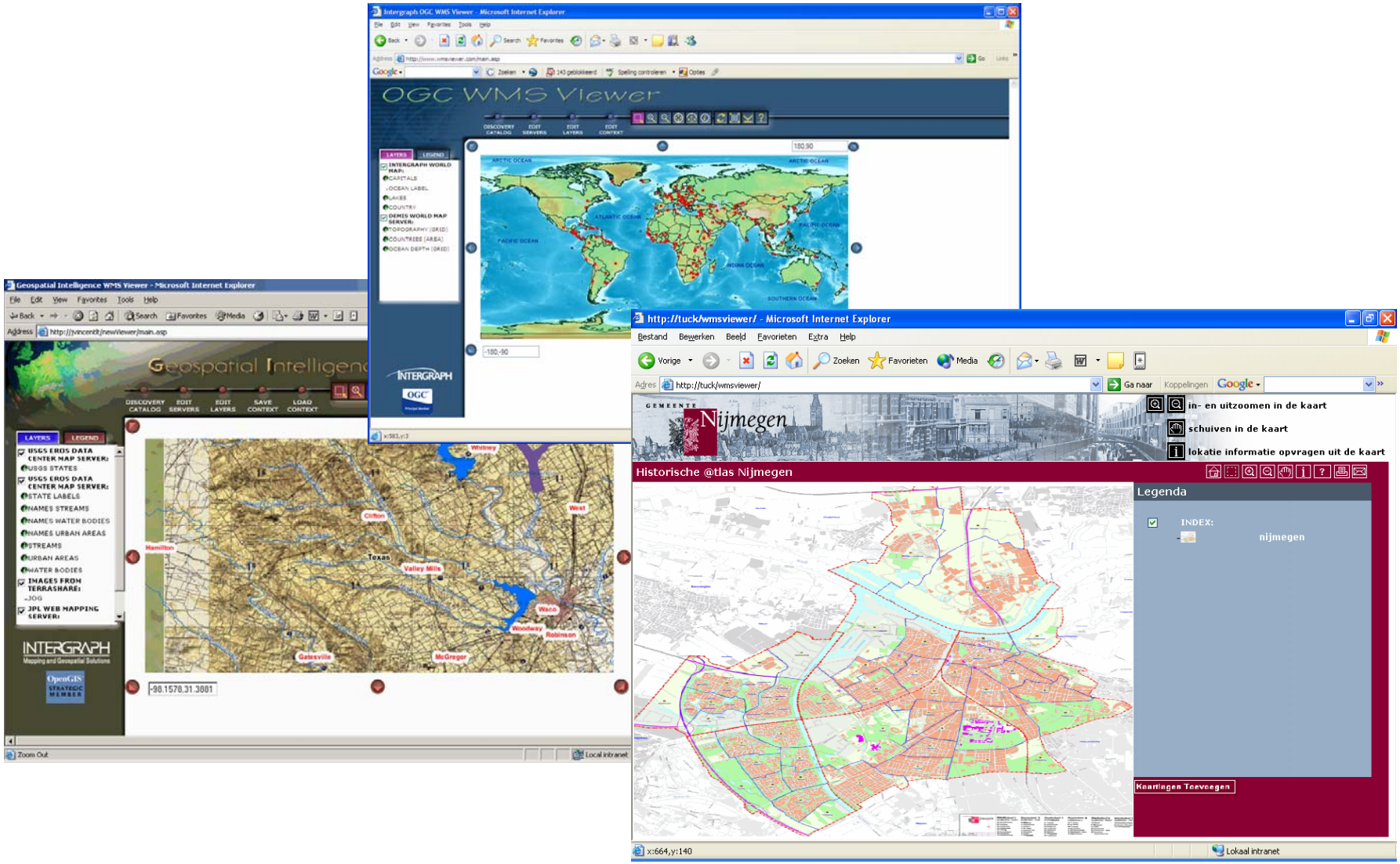
Helping professionals and enterprises simplify development of their own portal for viewing, querying, and rendering WMS source data



http://imgs.intergraph.com/interop/wmsviewer.asp

Internet

WMS viewer


Intergraph OGC WMS Viewer - Microsoft Internet Explorer
OGC WMS Viewer
Geospatial Intelligence WMS Viewer - Microsoft Internet Explorer
Geospatial Intelligenc
INTERGRAPH
OGC
http://tuck/wmsviewer/ - Microsoft Internet Explorer
Bestand Bewerken Beeld Favorieten Extra Help
Vorige Zoeken Favorieten Media
Adres http://tuck/wmsviewer/
Ga naar Koppelingen Google
GEMEENTE Nijmegen
in- en uitzoomen in de kaart
schuiven in de kaart
lokatie informatie opvragen uit de kaart
Historische @tlas Nijmegen
Legenda
INDEX:
nijmegen
Kaartlagen Toevoegen
x:664,y:140
Lokaal intranet
Texas
Hamilton
Clifton
West
Valley Mills
Waco
Woodway
Robinson
McGregor
Gatesville
Whitney
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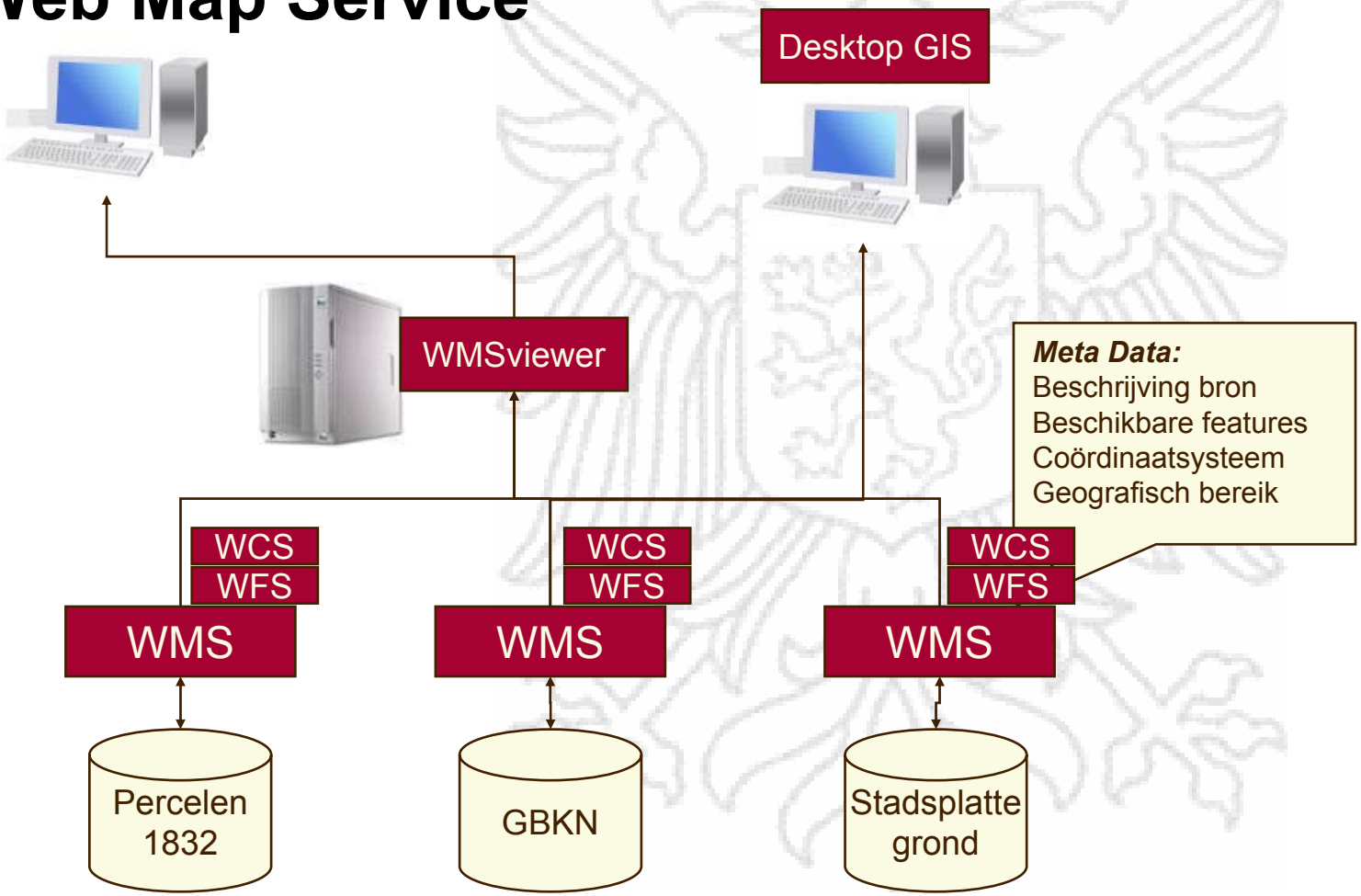
Zoom Out
Local intranet

GEMEENTE Nijmegen

Gemeente Nijmegen

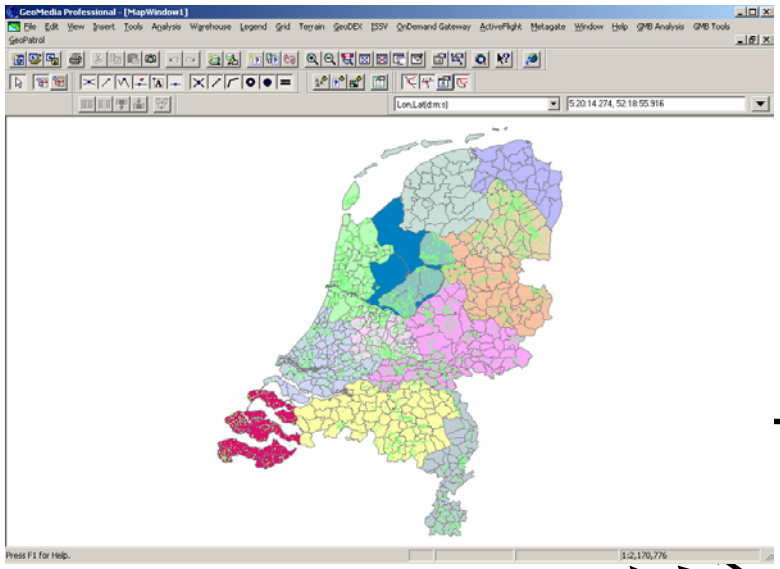
Web Map Service



Interoperablity network

www.geospatial.net

Interoperability (data)



MapInfo autodesk other..

ORACLE

"Interoperability kit"

INTERGRAPH GeoMedia™

"GML-dataserver"

OGC™ Open Geospatial Consortium GML

Microsoft Access

Microsoft SQL Server ORACLE

IBM

ESRI

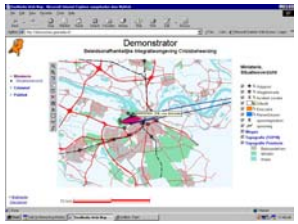
MapInfo

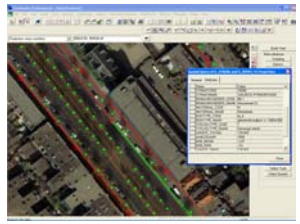
BENTLEY

autodesk

NEN1878, ODBC, ASCII,...

Interoperability (application)





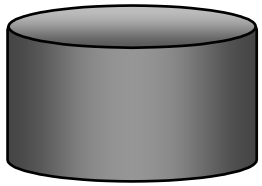
Other Desktop and Web applications

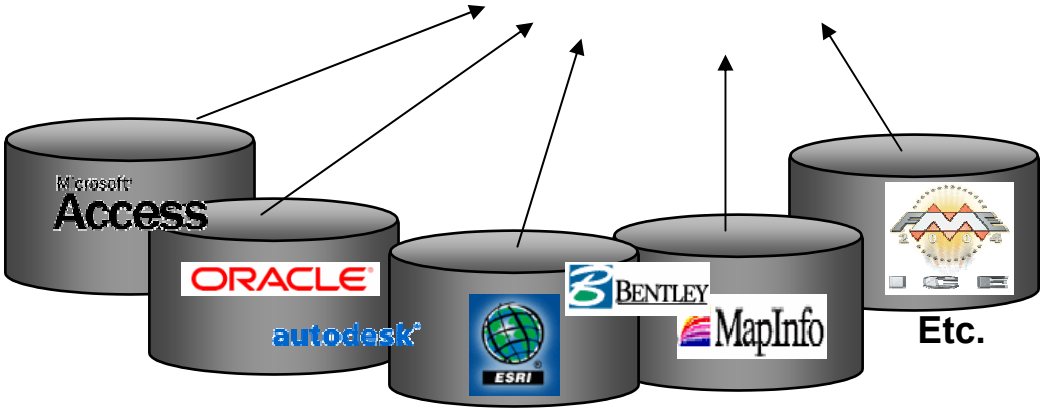
WMS- , WFS dataserver

Webservices (WFS, WMS)

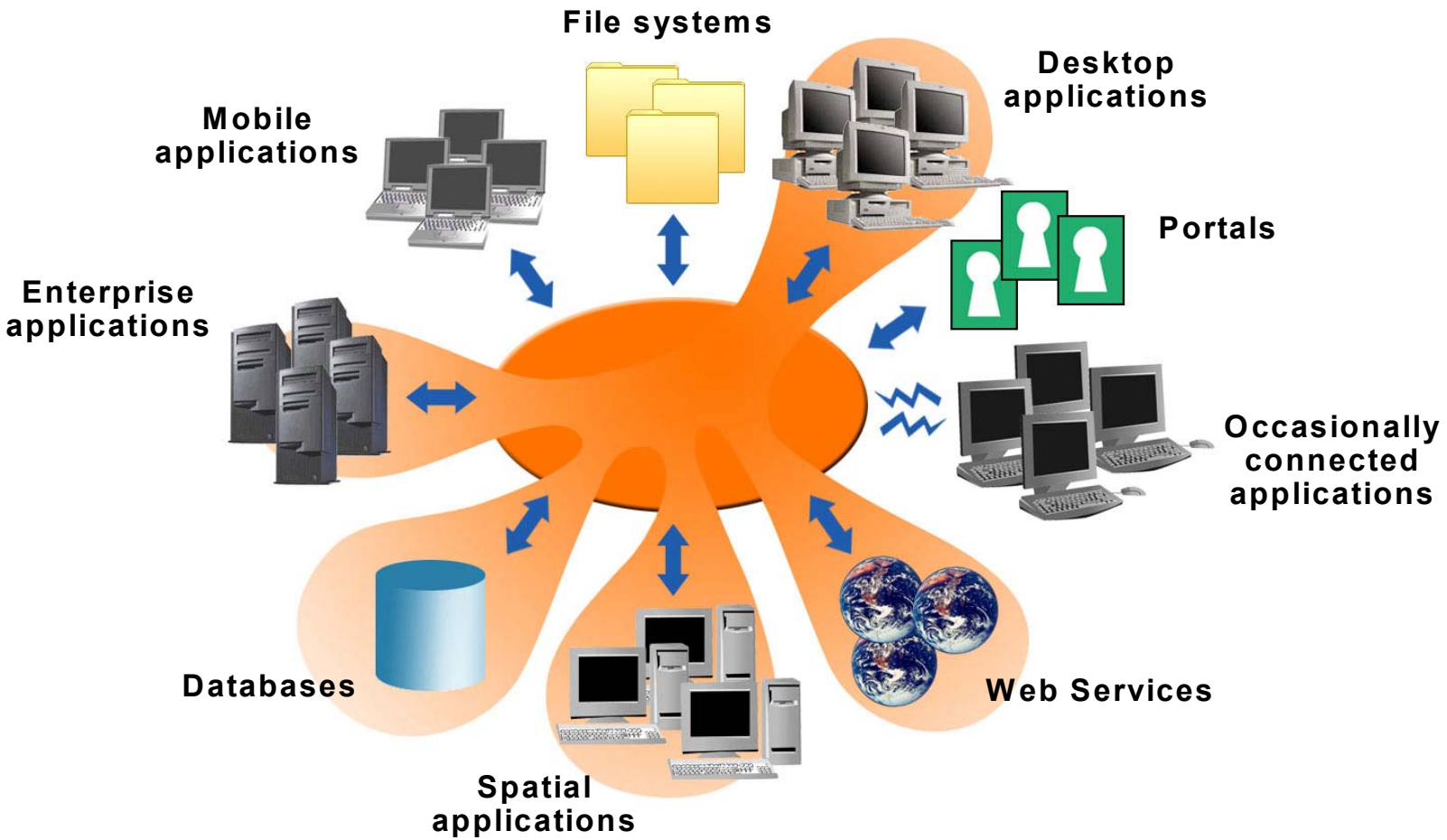
GeoMedia WebMap

Other WMS, WFS Webservices





Service Oriented Architectuur (SOA)



Interoperability & Intergraph

Interoperability between products and data

Open architecture maximizes configuration flexibility and extendibility via customization

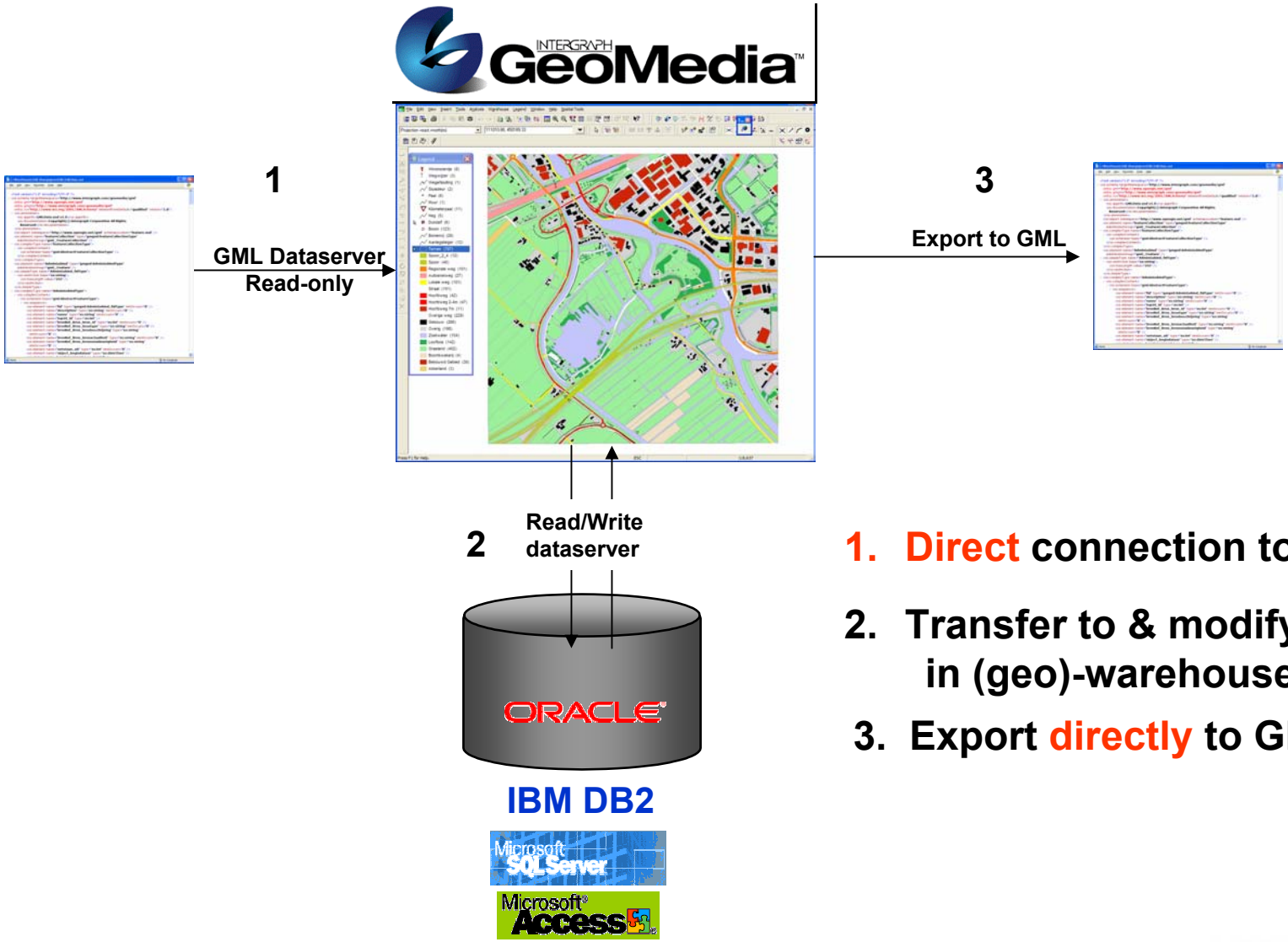
Only SQL between *you and your data*

Only a URL between *you and the world's data sources*

GML-relay

INTERGRAPH

GML Relay Workflow

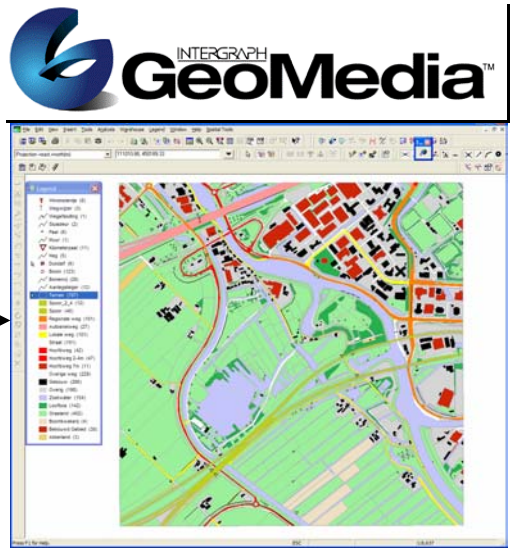


1. **Direct** connection to GML-file
2. Transfer to & modify in (geo)-warehouse
3. Export **directly** to GML-file

GML Relay Workflow

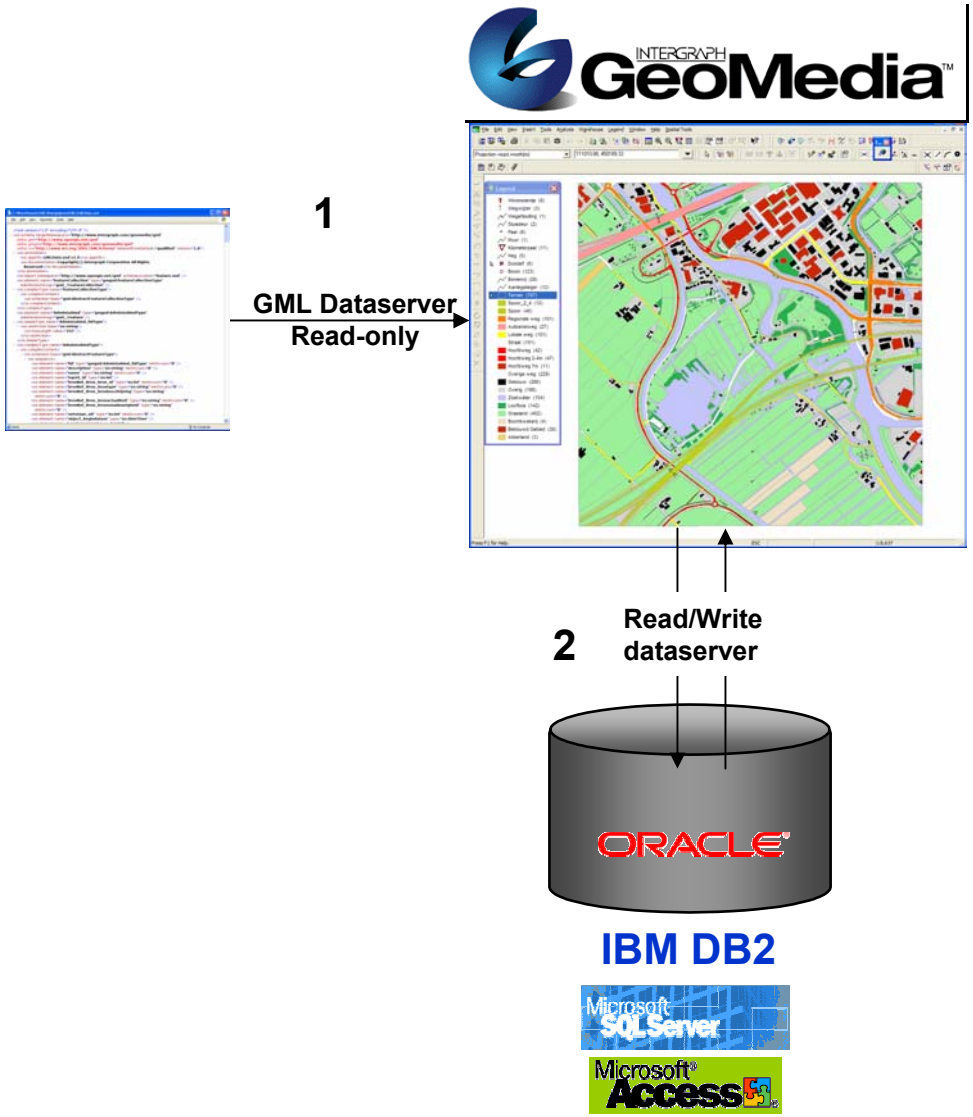
1

GML Dataserver
Read-only

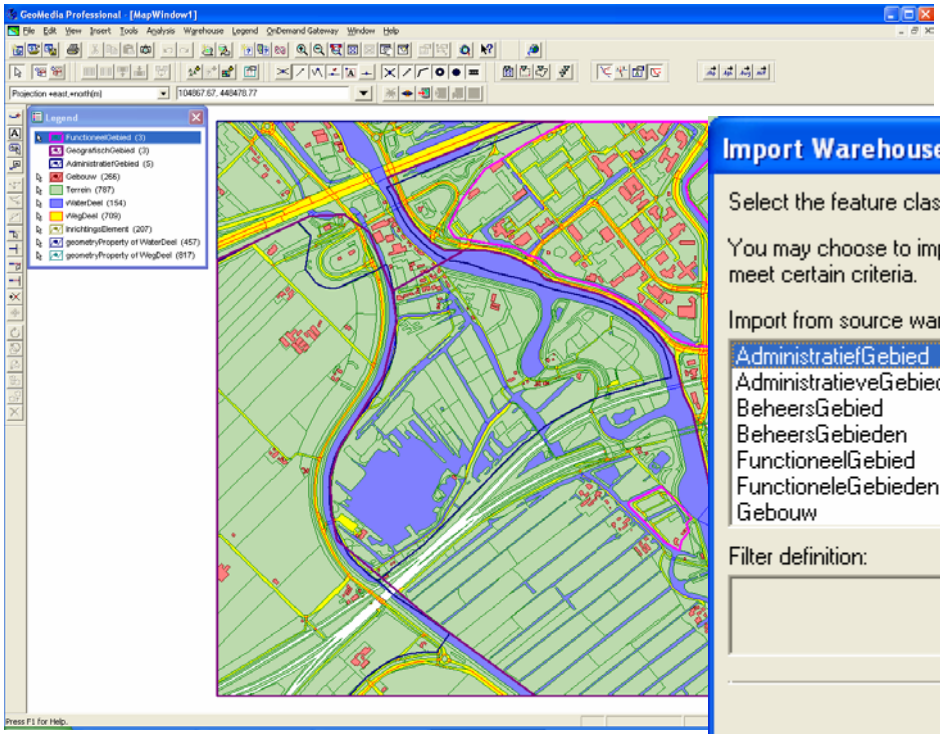


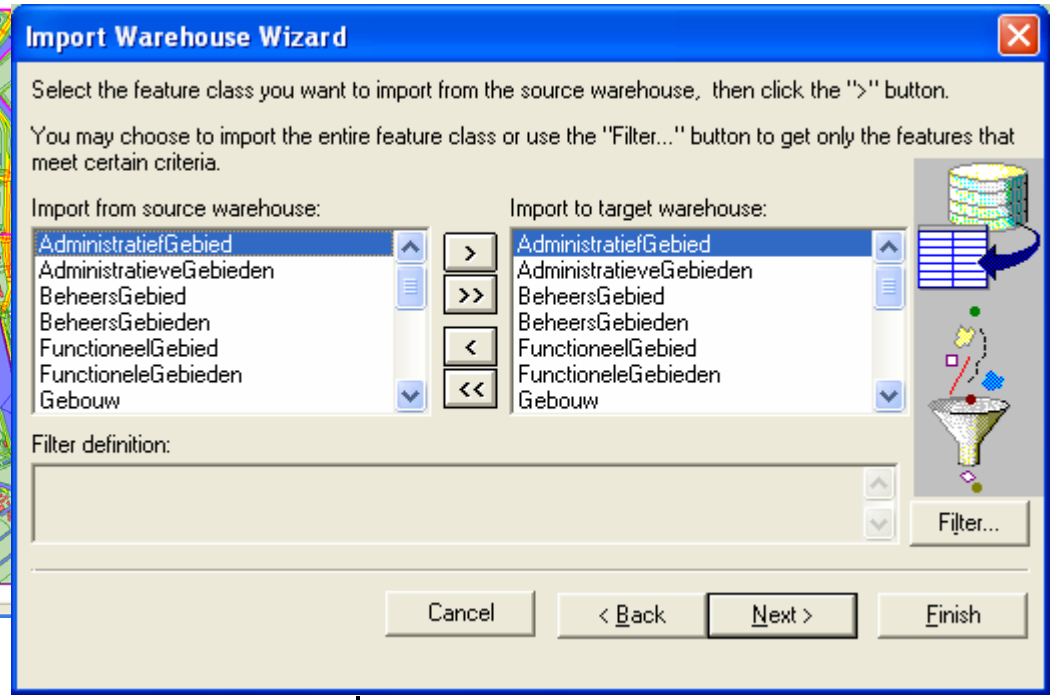
1. **Direct** connection to GML-file

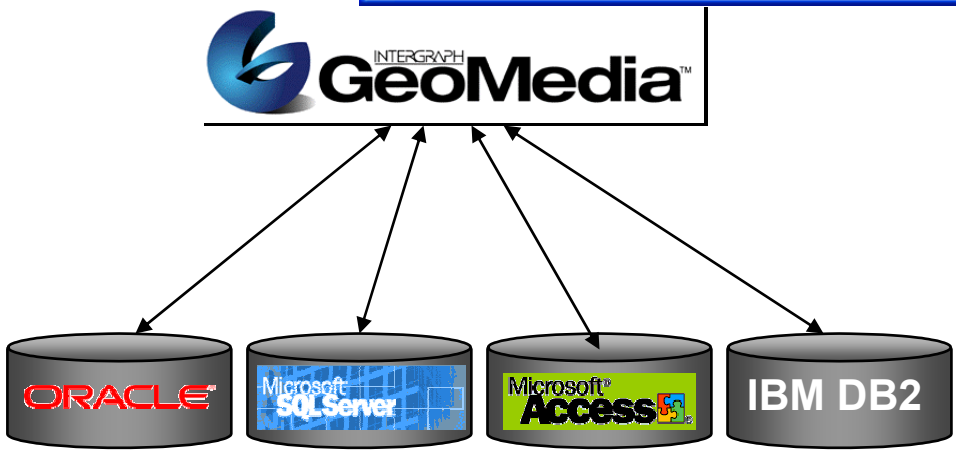
GML Relay Workflow

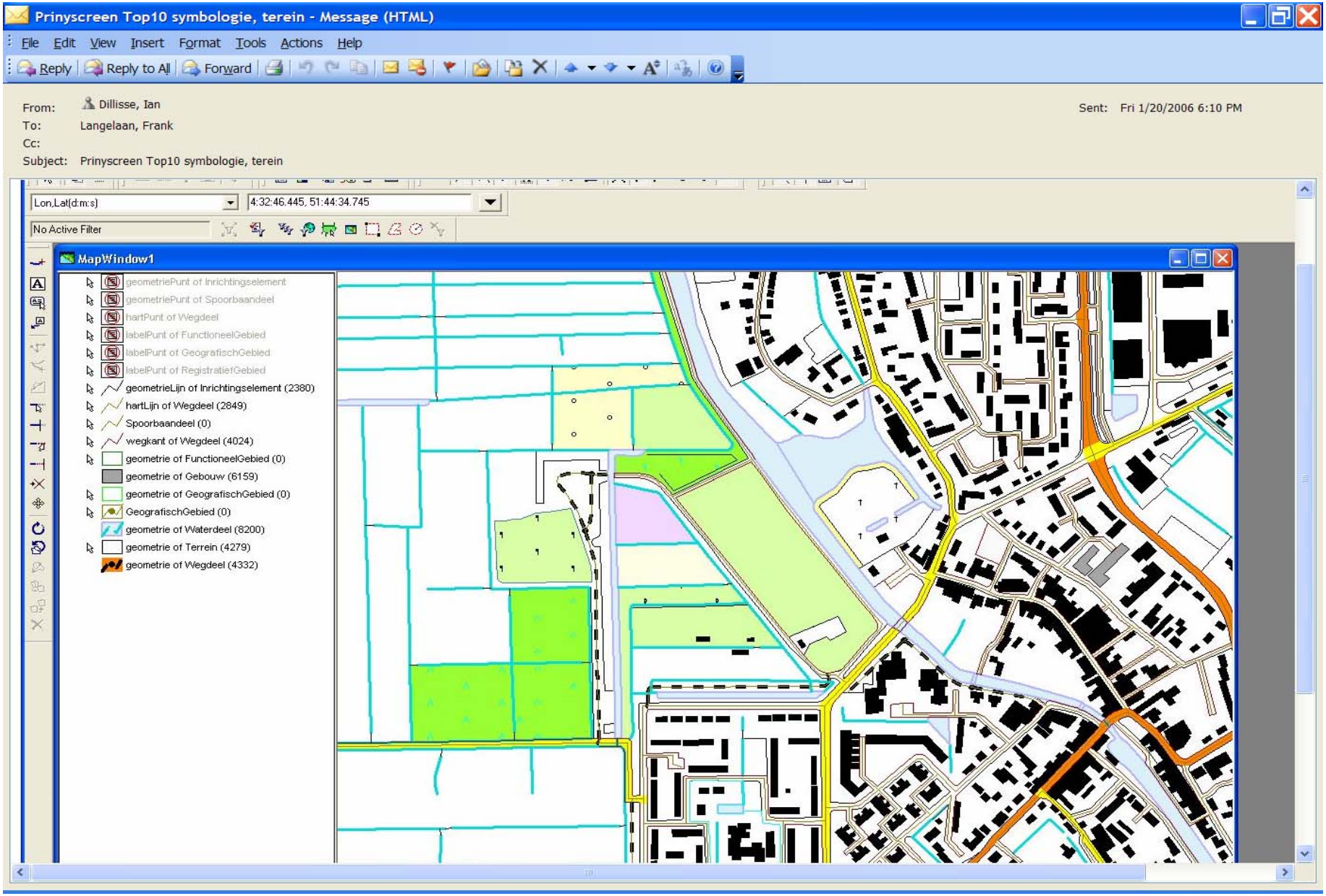


1. **Direct** connection to GML-file
2. Transfer to (geo)-warehouse




Import Warehouse Wizard
Select the feature class you want to import from the source warehouse, then click the ">" button.
You may choose to import the entire feature class or use the "Filter..." button to get only the features that meet certain criteria.
Import from source warehouse:
AdministratiefGebied
AdministratieveGebieden
BeheersGebied
BeheersGebieden
FunctioneelGebied
FunctioneleGebieden
Gebouw
>
>>
<
<<
Import to target warehouse:
AdministratiefGebied
AdministratieveGebieden
BeheersGebied
BeheersGebieden
FunctioneelGebied
FunctioneleGebieden
Gebouw
Filter definition:
Filter...
Cancel
< Back
Next >
Finish


INTERGRAPH GeoMedia
ORACLE
Microsoft SQL Server
Microsoft Access
IBM DB2


Prinyscreen Top10 symbologie, terein - Message (HTML)
File Edit View Insert Format Tools Actions Help
Reply Reply to All Forward
From: Dillisse, Ian
To: Langelaan, Frank
Cc:
Subject: Prinyscreen Top10 symbologie, terein
Sent: Fri 1/20/2006 6:10 PM
Lon,Lat(d:m:s)
4:32:46.445, 51:44:34.745
No Active Filter
MapWindow1
geometriePunt of Inrichtingselement
geometriePunt of Spoorbaandeel
hartPunt of Wegdeel
labelPunt of FunctioneelGebied
labelPunt of GeografischGebied
labelPunt of RegistratiefGebied
geometrieLijn of Inrichtingselement (2380)
hartLijn of Wegdeel (2849)
Spoorbaandeel (0)
wegkant of Wegdeel (4024)
geometrie of FunctioneelGebied (0)
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geometrie of GeografischGebied (0)
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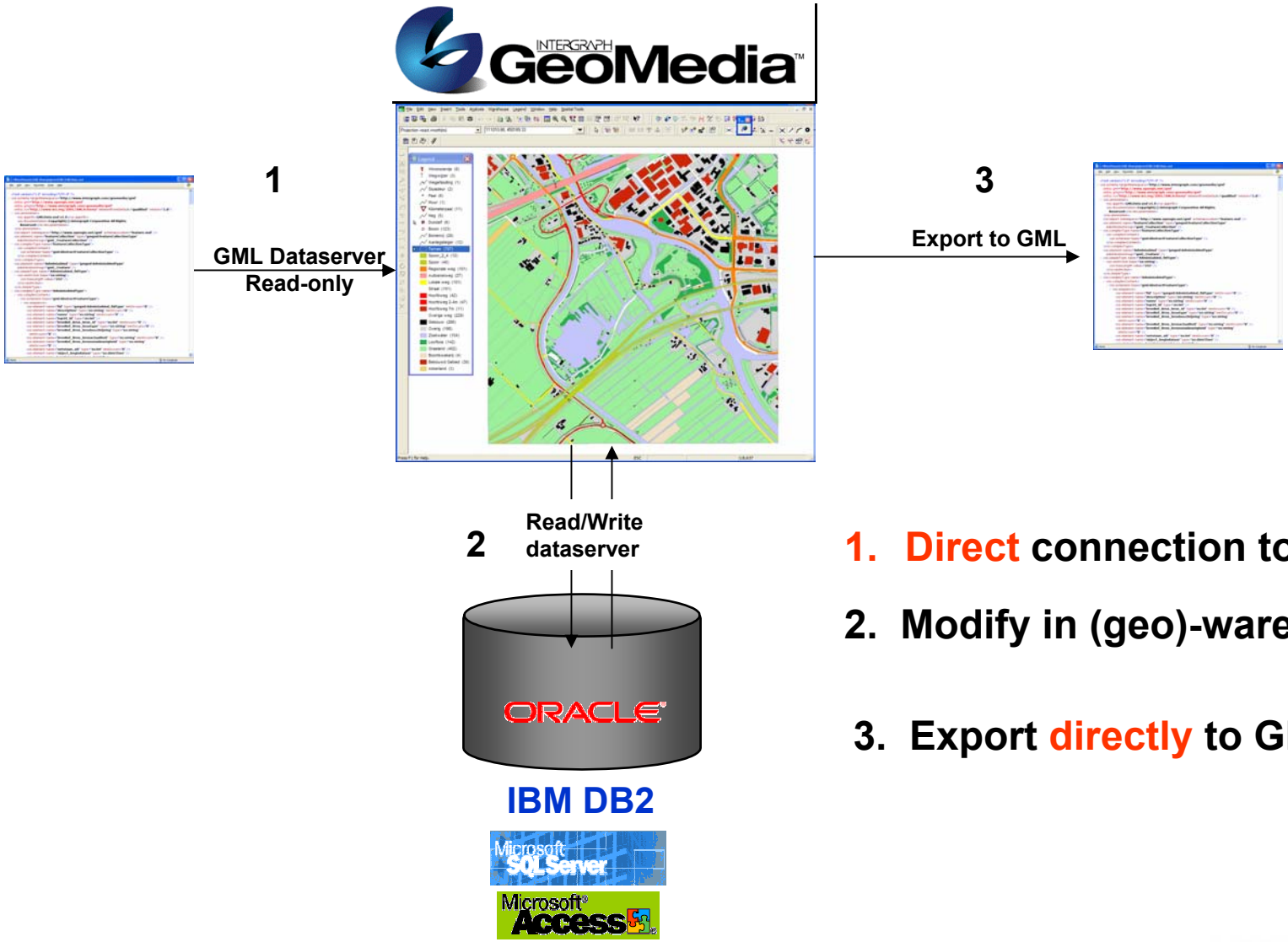
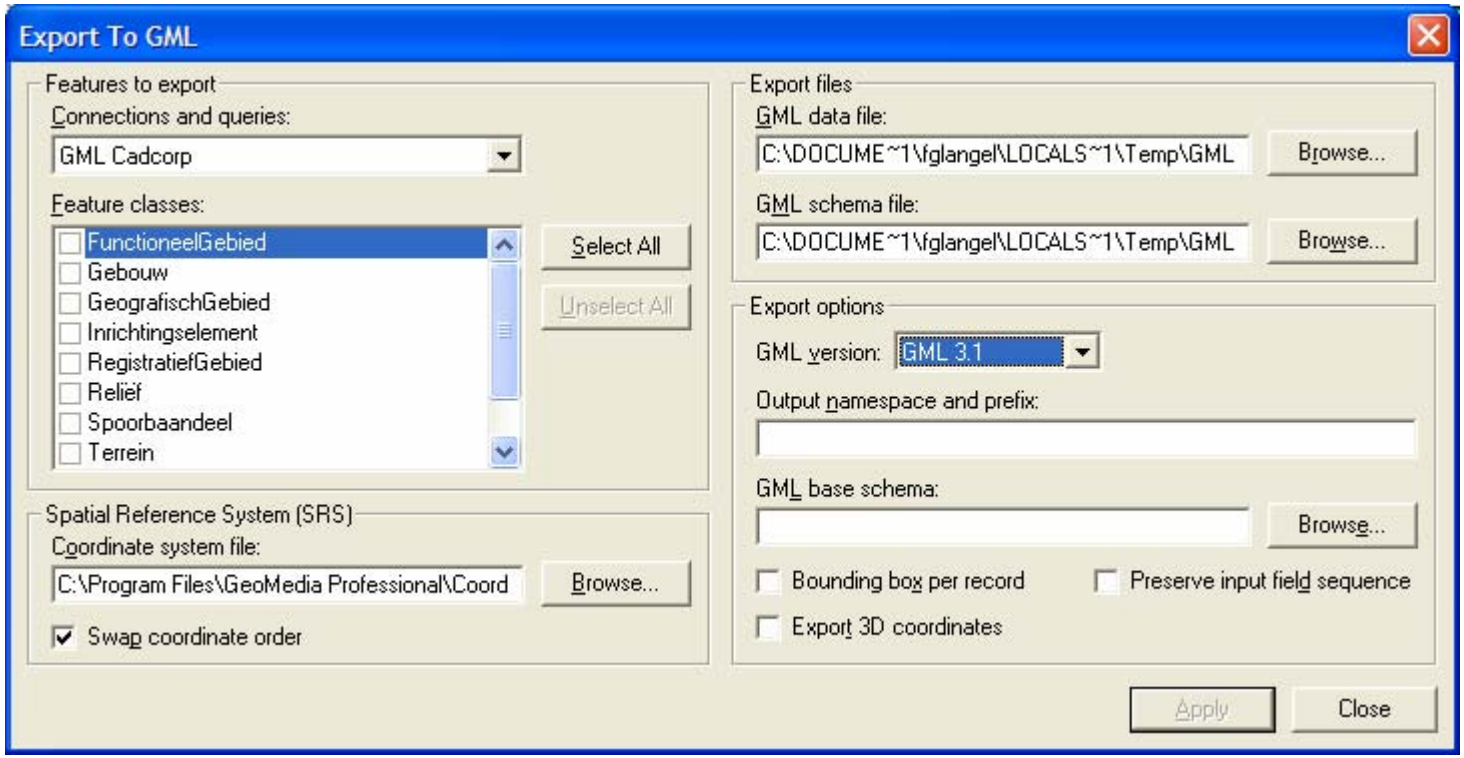
geometrie of Terrein (4279)
geometrie of Wegdeel (4332)

GML Relay Workflow



1. **Direct** connection to GML-file
2. Modify in (geo)-warehouse
3. Export **directly** to GML-file

Export to GML



Batton transfer to……..

INTERGRAPH