



# TRANSFORMING DATA INTO KNOWLEDGE

Information is often stored in many different databases, and maps are sourced from a wide variety of services - all this data needs to be organized so that it can be used. Statistics and reports give an overview of complex facts. Smallworld GeoSpatial Analysis (GSA) is a powerful enterprise business intelligence solution that enables queries, analyses, statistics, reports, and the visualization of spatial and non-spatial data.

Using so-called business objects, data can be restructured and put into a format that delivers content and, most importantly, knowledge. This approach promotes intelligent decision making and the organization of efficient business processes.

GSA can be used to compile customized spatial information that has an open standard and is thus available to other systems. Certain spatial data handling tasks can be automated, such as generating reports on a regular basis.

The reports can be customized and thus offer a solid basis for interdisciplinary work. GSA is an enterprise solution for reviewing, integrating, and distributing asset information.

## Example 1

Comparison of different data sources, e.g., GIS data and lists independently maintained by plant managers.

## Example 2

Complex reports - evaluation of operationally important points and data compilation from different sources (integrating GIS, Microsoft Excel, Shape and other data).

## Example 3

Regular reports for professional associations or regulatory bodies - one-time configuration, recurring calculation and retrieval.

# GSA Professional

**Features:** Designed for power users, numerous configuration options, defining „on-the-fly“ models, adding new data sources, detailed analysis, filters and data reports.

**Why Professional:** Necessary for configuring templates and queries for use in GSA Standard, GSA Lite or GSA Business Services versions.

# GSA Standard

**Features:** Easy-to-use visualization and reporting tools to distribute data and knowledge across the enterprise, relies on pre-configured data sources, services, reports, queries, definitions, and maps.

**Why Standard:** Suitable for users who have a wide range of tasks and support other departments with their processes.

# GSA Lite

**Features:** Web client for visualizing and displaying business objects defined in one of the other applications.

**Why Lite:** More than just an information interface – users can also execute geometric operations, output PDF plots and pre-configured reports, and export data to different formats. Even users who use the software irregularly will quickly find their way around GSA Lite.

# GSA Business Services

**Features:** Providing information to other systems using open standards, automating tasks such as generating and sending reports at specified intervals.

# GSA Ultimate Edition

**Features:** Additional output formats to make the information available across the enterprise, for expert users with interface tasks.

**GEOMAGIC**  
**UTILITY**  
**SOLUTIONS**

# Fast facts

## Support for a wide range of data sources

Map services such as OpenStreetMap, Google, Bing Maps, AutoCAD DWG, Diasys, DMS, ECW Rasters, ESRI ArcPersonal DB, ESRI ArcSDE DB, ASRI ArcShape Files, ESRI File Geo-Databases, Firebird DB, GeoPackage, GeoRSS, Google KML, GPX, LizardTech MrSID, Map Grid, MapInfo, MS Access, MS Excel, MS Office Documents, MS SQL Server DB, Microstation DGN, MySQL DB, OData, OGC WFS, OGC WMS, OLE DB Feature Source, Oracle DB, PostGIS DB, Raster Images, Salesforce, SAP HANA, Smallworld Enterprise Gateway, Smallworld VMDS DB, Spatial Eye GeoNotes DB, Spatial Warehouse, SQLite DB

## Output formats

AutoCAD DWG, Microsoft Excel, CSV, ESRI ArcShape, GeoPackage, GML, Google KML/KMZ, GPX, HTML, MapInfo, Microstation DGN

GSA Ultimate Edition also includes MS SQL Server, MySQL, Oracle, PostGIS, SAP HANA, Smallworld VMDS output formats.

**Hardware requirements**

Main memory: 2GB RAM

Recommended minimum resolution: 1280 x 1024 pixel

DPI setting: 96 dpi (normal size)

Hard drive space: 1 GB for installation files (GeoSpatial Analysis, Microsoft .NET framework and Global Assembly Cache)

## Software requirements

Operating system: 32bit or 64bit, from Windows 8

Further components: Microsoft .NET framework 4.7.1, Windows MSI Installer 3.1, Microsoft Data Access Components (MDAC) 2.6, Oracle Instant

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