

*A standard product for the integration of SAP and Smallworld GIS*

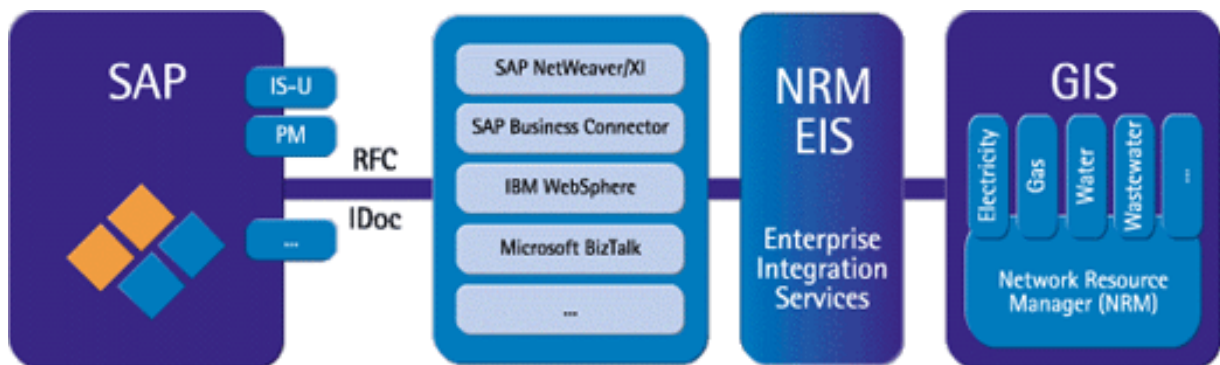
## SAP/GIS Integration with Enterprise Integration Services for Smallworld GIS

### Service-based integration of Smallworld GIS and SAP

SAP and GIS form the most important building blocks of most energy supply businesses. The advantages of integrating these two systems are obvious: Smallworld GIS and the SAP PM and IS-U modules both contain and handle customer data such as consumption figures as well as information on the resources and assets of the business. These may include data on house connections, sub-stations and their internal structures and fittings, hydrants or cable distribution boxes.

The requirements of system integration can best be met through a service-oriented IT approach. Mettenmeier's NRM EIS conform to this philosophy. Smallworld GIS data and process models for the utilities industries are easily and flexibly exploited in conjunction with modern system integration platforms such as SAP XI, IBM WebSphere or Microsoft BizTalk, as well as the already well known SAP Business Connector.

EAI tools such as SAP XI enable complex and diverse IT systems to be simplified and standardised. Other systems covering a range of different activities can be readily connected. NRM-EIS opens up the Smallworld GIS to the harmonisation of information and business processes across technical and organisational boundaries. XML/SOAP web services, which form the basis for this, are ideal for integration within a SAP NetWeaver or SAP XI system environment.



### Features/Benefits

#### *Easy and forward-looking SAP-Integration*

*(matching of data, provision of maps for assets or tasks, processing of network information etc.)*

- SAP/GIS Integration using SAP BusinessConnector
- SAP Certified Enterprise Application Integration using SAP NetWeaver XI
- Enterprise Application Integration using IBM WebSphere, BEA WebLogic, or Microsoft BizTalk

#### *Opening up Smallworld GIS for integration into the organisation's IT systems*

- Integration of strategic IT systems like EMS, Scada
- Flexible XML import and export interface for other applications

- GIS data update using web service clients, e.g. Microsoft Infopath

*Significant reduction in total cost of ownership and operation*

- little individual development, maintenance and support expenses
- low risk of failure or diminished performance
- high economic value of the investment

*The system architecture is scalable and supports the needs of both large and small organisations.*

*The implementation of NRM-EIS facilitates the initial matching of data and the modification of mass data.*

*Communication interface based on web services*

*Generic services for reading and writing GIS data including relational and topographical structures such as house connections*

*Special services for network tracing*

*Compatible with Microsoft Infopath*

*Transaction Monitor: Navigation, transaction status, connection with objects etc.*

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## **Brilliant implementation plan**

A modular implementation plan stretches from the simple front end connection, through data integration and synchronisation of business assets or “objects”, to networking of the most important business processes such as maintenance and fault management. The introduction of modern integrated platforms in conjunction with NRM-EIS enables the rapid and economical integration of SAP and GIS.



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