Smart GeoEAM

Integrated SAP-ESRI Enterprise Asset Management Solution

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Smart GeoEAM integrates SAP ECC 6.0 Plant Maintenance (PM) module with ESRI's ArcGIS Server to present a very easy and user friendly map interface to conduct SAP asset and work management transactions. The feature rich user interface integrates with live GeoRSS feeds such as weather and traffic providing real time inputs for better planning and utilization of resources.

Smart GeoEAM consists of the following components

- Work Management module
- Data Management unit and
- Smart Geo Foundation

Work Management module facilitates execution of notifications and work orders related transactions such as locate, create, change, display and list from a feature rich web based interface. The **Data Management unit** helps manage and synchronize asset master data between the SAP and ESRI systems. **Smart Geo Foundation** is the integration framework for connecting SAP and ESRI systems in real time.
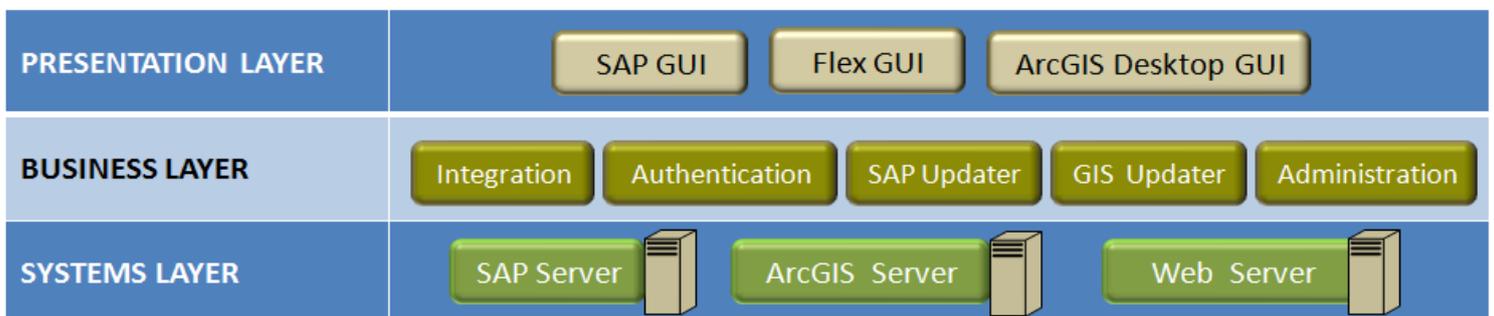
Smart GeoEAM is delivered with most commonly used business operations in asset management. The solution can be enhanced / customized based on an organization's landscape or business processes.

Bring location intelligence to SAP business processes

Public Sector agencies and Utilities have vast number of assets typically spread over large geographical areas. Maintaining these assets is one of the core functions of these organizations. They use robust OLTP systems such as SAP for maintenance operations and GIS systems such as ESRI ArcGIS for geographical locations of the assets. In most organizations, these systems do not communicate with each other, missing the benefits of bringing location intelligence to business processes.

Smart GeoEAM makes an organization's SAP and ESRI systems work in tandem leveraging the native strengths of each system to improve the efficiency of asset management operations.

Smart GeoEAM has a map based user interface enabling users to visualize assets, notifications and work orders on the map and conduct transactions from the map interface. Planners, schedulers, field crews and supervisors can take advantage of the ability to see where the work, assets and resources are located in planning, routing or scheduling their day to day operations.

Smart GeoEAM Architecture

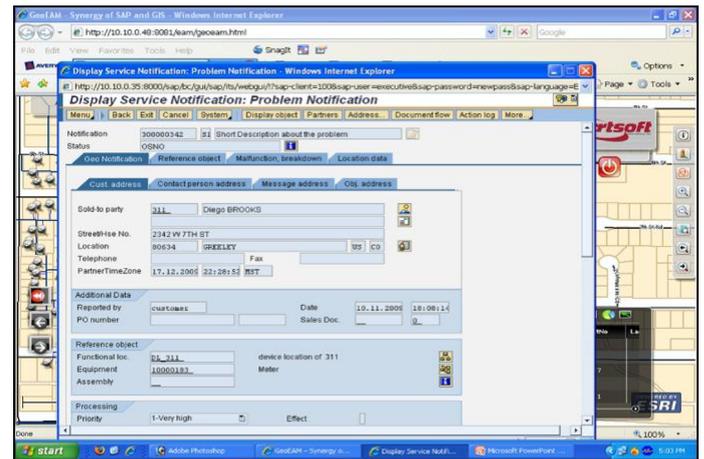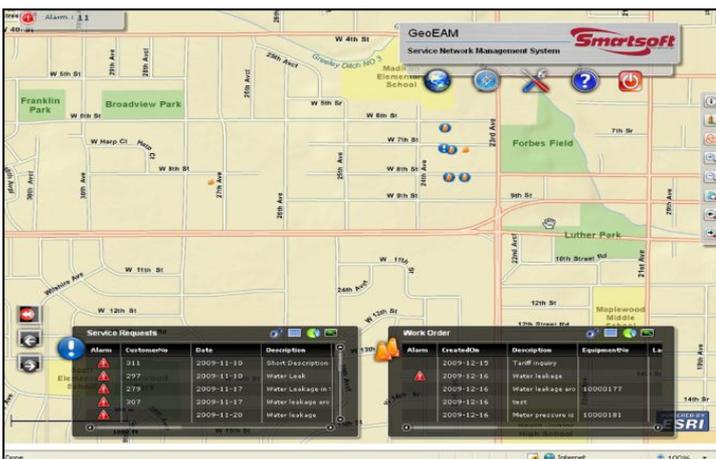| PRESENTATION LAYER	SAP GUI	Flex GUI	ArcGIS Desktop GUI		
BUSINESS LAYER	Integration	Authentication	SAP Updater	GIS Updater	Administration
SYSTEMS LAYER	SAP Server	ArcGIS Server	Web Server		

From operational stand point, Smart GeoEAM facilitates and enhances the following processes:

- Help desk and call center agents can easily locate the assets on a map and verify /enter service requests in SAP directly from the map interface for quicker turnaround times.
- Supervisors can visualize all the pending requests and work orders in their assigned geography and allocate work to field crews based on their proximity to minimize travel times.
- Advanced mapping features eliminate use of paper maps
- Real time integration allows access to most recent data from the backend systems enabling field crews to optimize their time and increase productivity
- Quick , on demand visual overview of the operations and analytics for managers and decision makers.
- Monitoring critical activities for regulatory conformance and reporting

Key Features & Benefits:

- Smart GeoEAM does not require any middleware component to store data or structures, facilitating quicker deployment and easy maintenance.
- Smart GeoEAM makes uses of SAP authorization profiles eliminating any additional work on security management.
- Real time communication between SAP and ESRI systems ensures availability of latest data to users at all times.
- Browser based user interface gives flexibility to connect from anywhere besides providing a natural and seamless flow to conduct business processes.
- Smart GeoEAM brings new ability to users to factor into operations planning, real time events such as weather or traffic resulting in improved utilization of resources.
- Visualization of assets and work orders on the map helps to detect trends and patterns that usually go unnoticed when dealing with tabular data.
- Smart GeoEAM provides tools to identify mismatches and synchronize master data records across SAP and ESRI systems.

About Smartsoft Technologies

Smartsoft Technologies is a subsidiary of Smartsoft International Inc with specific focus on Public Sector organizations, Utilities and Oil & Gas Companies, providing business consulting & technical expertise for achieving operational excellence by leveraging leading enterprise Technologies, ESRI and SAP. Smartsoft has been helping enterprises transforming operations into strategic competitive advantage via real-time visibility into the business, high-efficiency execution across all units and geographies, and continuous improvement through spatial analysis & power of visualization by representing data on a map interface which communicates seamlessly with backend enterprise systems (SAP).