

MapFrame Mobile Solutions Field Flow Manager

fact sheet

GE Energy's MapFrame™ Mobile Solutions feature a suite of FieldSmart™ applications to automate all field-based work through a map-centric approach. The Field Flow Manager (FFM)™ server software is an essential component in the process of integrating corporate functions and replacing paper processes with mobile systems. This server software provides state-of-the-art capabilities for compressing and moving data on an as needed basis. The FieldSmart Connect™ product is an optional add-on component to support wireless information exchange.

The FFM server software handles data flow between the office and the field, driving an incremental update process that synchronizes data and keeps field maps and related data current. Bandwidth throughput requirements are greatly minimized due to small data sets used in our delta update process. Working in wired or wireless environments, field personnel have access to all the information they need to solve complex problems at the job site. With the powerful MapFrame compression algorithms, the FFM server software makes it possible for even the largest organization to load maps of its entire service territory – and related databases – on a laptop or handheld computer.

The FFM audit functionality provides customers and MapFrame personnel with the data necessary to manage a distribution of FieldSmart software to mobile and office clients.

Figure 1 illustrates a high-level functional diagram of the FFM process featuring audit functionality. The data flow drawn in black represents the FFM data flow, where a daily delta file is created by the FFM, software then pulled to the FieldSmart client by FieldSmart Update™ tool. The FieldSmart Update tool updates the local client database with the contents of the delta file.

The data flow drawn in red represents the FFM audit functionality: the FieldSmart Update tool writes pertinent data to a local client data store, the contents of this data store are deposited back to the FFM software through a network connection - the data is then inserted into a relational database where it is readily available for a reporting tool, system, or data warehousing environment.

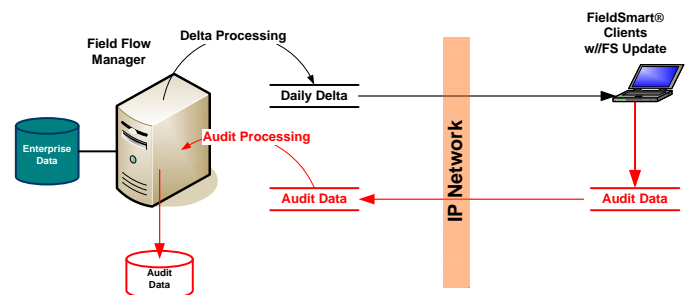


Figure 1 – Field Flow Manager with Audit Functionality

Features & Functions

General

- Handles data flow between office and field
- Integrates corporate functions and replaces paper processes with mobile systems
- Compression algorithms maximize amount of data loaded on mobile device
- Drives incremental update process to synchronize data
- Bandwidth throughput requirements are greatly minimized due to small data sets used in our delta update process.
- Accepts data from all GIS/CAD systems
- Handles vector and raster data
- Manages multiple systems' data by converting formats to compatible structure
- Transfers all data to display in the FieldSmart View™ application, eliminating the need to run several applications
- Maintains two-way flow of information
- Operates in wired or wireless environment



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Features & Functions

For more information visit www.gedigitalenergy.com

Audit

- Manages distribution of FieldSmart software to mobile and office clients.
- The information captured at the client includes the following data:
 - List of MapFrame products installed
 - Date/Time
 - Machine name
 - User ID
 - MAC ID
 - Domain Name
 - Date and Time stamp on data file
 - GPS Enabled (Y/N)
 - Secure Group
 - Map Layer Names Installed
 - Map Date and Time Stamp
 - Names of Delta Files Present



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