



▶ Mobile Application for Asset Management

Engineering and Software Development company calls upon Emtec to develop an Asset Management Solution that cuts costs and increases efficiency

The Challenge

Maintenance scheduling is a large issue for organizations with assets that are distributed globally. Centrally locating these records becomes a priority in order to reduce redundancy and improve communication. Emtec's client needed a custom solution, rather than off-the-shelf commercial software packages for facilities management and computerized maintenance management system (CMMS) that only provide a one-size-fits-all solution.

Emtec's Solution

Emtec developed a software solution to track and manage corporate assets via the cloud, allowing updates through a ruggedized handheld device. This web-based application was designed to manage assets throughout their entire life cycle while meeting the desired level of reliability and reducing costs. The user can also track the asset location by plotting its position using Google Maps. By scanning the asset's bar code with a hand held device, field workers acquire information instantly and accurately – thus reducing the cost of real-time information capture. The accuracy and timeliness of asset management data was improved as well.

The final solution greatly improves the efficiency of a distributed maintenance management system by integrating real-time field data with corporate databases.

Flexibility

The asset management software, allows anyone to track inventory at any location, at any time while connecting to the database. Whether working online or offline, users have the ability to capture field data, issue work orders remotely, and act immediately on information at their fingertips. The software monitors routine and ad-hoc asset maintenance, repair and operation, preventative maintenance, ad-hoc tasks, and action items and tracking. This application is ideal for large, distributed organizations such as airports, government agencies, telecommunications companies, and other organizations with a tremendous amount of assets.

Client benefits from new system features:

- ◆ Inventory checking
- ◆ Track movement of assets
- ◆ Record new assets
- ◆ Update task status
- ◆ Work in online or offline mode

Implementation

Third parties responsible for the equipment can access the system via the cloud. The mobility module runs on a ruggedized Motorola/Symbol mobile scanner and allows users to download and update scheduled tasks from any remote location. Information is synchronized and updated with the central database whenever connected.

Technical Specifications

- ◆ ASP.NET and Windows Mobile
- ◆ C# and VB.Net on handheld
- ◆ .NET framework 2.0 and .NET CF 2.0
- ◆ Microsoft Ajax 1.0
- ◆ Microsoft oft Enterprise Library
- ◆ Web layer deployed on Windows 2003 enterprise server
- ◆ Database deployed on SQL Server 2005
- ◆ Symbol MC70

Outcome

Emtec designed and developed a comprehensive mobile platform solution on time and within budget. Detailed inventory information enables streamlined purchasing and improved asset utilization. The solution eliminates waste within maintenance processes by consolidating hundreds of daily work orders into a single system. The secure application allows personnel to easily retrieve data through a portal from any computer in any location. A large international airport is currently utilizing the mobile application to share information across various locations, to track assets and maintain control over their dispersed inventory.

About Emtec

Established in 1964, Emtec, Inc. is a systems integrator that provides IT services and products to the federal, state, local, education and commercial markets. Our market leading value-based management methods, coupled with best-in-class IT technology, consulting and development services, address a wide range of specific client needs, as well as support broader IT transformation initiatives. Emtec's service capabilities span the United States, Canada and countries around the globe.