



Empirica Mobile

Mobile computing solutions to take your business forward

Are you looking for a mobile computing solution to help your people provide products or services better and faster?

Do they need online access to systems to download, check and update information?

Will a task focused application for your mobile workers increase the efficiency and profitability of your business?



Empirica mobile

Empirica Mobile is a advanced development framework for creating mobile solutions based on your exact business requirements. It provides cost effective application development to give your business functional, flexible mobile solutions with dynamic business benefits. As a self contained product it requires no additional software for development, operation or maintenance, ensuring easy implementation and support.

If you're looking for a unique mobile computing solution to take your business forward, then Empirica Mobile is what you need. Its advanced design and technology, with low deployment and annual running costs will ensure clear results and a rapid return on investment.

Empirica Mobile is a framework for developing and hosting mobile computing applications on a Windows Mobile (5+) platform. It's specifically designed for rapid development and deployment and contains many features to make it flexible and easy to use. Empirica Mobile is totally self contained, so there's no need for any other software to develop, deploy, run or maintain your mobile application.

Empirica Mobile uses intelligent 'plug-ins' which make its framework hardware independent so you're not tied to one make of PDA. In fact your application can be deployed on a combination of hardware with no device specific changes. Business logic ensures that your PDA's always run the latest software without complex version management or device recall, while advanced communications features provide data security and economic message transmission between PDA and host system.

Whatever your application requirements, Empirica Mobile can provide the solution. With its simple, intuitive interfaces using best practice processes, and simplified communications you'll be able to achieve seamless integration of real time mobile data capture with your existing business systems.



Empirica mobile framework

Empirica Mobile consists of two modules, one server based, the other installed on the PDA. The PDA side of the Empirica Mobile framework consists of the following key elements:

Mobile Message Manager

The message manager handles all messages between device and host server which include updates for framework, resource, business logic and data. Operating silently with no user intervention, this module ensures error free data transmission using the most cost effective method. With rules for message priority, selectable communications and store and forward logic, the module will automatically handle USB, WiFi (802.11) and all mobile phone network connectivity.

Update Manager

The update manager will check that the versions of the framework, resources and business logic are up to date. It will then automatically request and update the latest version 'over the air' from the server. This ensures all devices are synchronised without the need for third party software, complex version control or device recall.

Integral Database

In order to ensure mobile devices are independent from the server and available communication path, the PDA based application has an integral database to store permanent and temporary data and stored messages. This means mobile workers can continue to process data even when host systems or communications are unavailable.

Display Manager

The display manager handles presentation of the interface to present a consistent, responsive and user friendly application. It also manages display resolution, automatically configuring screen size to suit the PDA on which the application runs.

Hardware Independence

Hardware independence is achieved by using a simple discreet plug-in to control access to manufacturer specific features such as scanners, cameras and GPS receivers. Using these, it is possible to build applications which utilise the following features:

- Barcode scanning (input to any field)
- Photo capture and transmission to host (with definable resolution)
- GPS location information capture and transmission to host
- Signature capture and transmission to host
- Virtual keyboard, allowing rapid non-device specific input



Empirica Mobile Benefits:

- Rapid application development
- Hardware platform independent
- Automatic update management
- Intelligent rule based communications
- Scanning, camera, GPS and signature capture
- Multiple host integration technologies
- No third party software required

The server side the Empirica Mobile framework contains the following key elements:

Server Message Manager

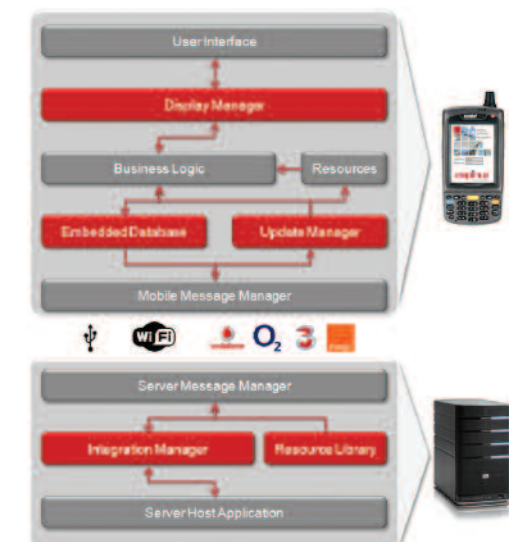
This works with the PDA message manager to ensure data is transmitted and received without loss.

Server Integration Manager

Integration to host third party applications can be achieved using various methods:

- Web Services (SOAP)
- XML
- http
- ftp
- CSV

In addition to these functions the server framework acts as a repository for holding the current version of the business logic and any resources (plug-ins etc.) required by the mobile application.



About Chess

Chess Logistics Technology has provided logistics IT systems for over 20 years, and delivered high performance solutions to customers in wholesale, retail, and manufacturing. We've helped customers gain major business benefits and develop a competitive edge to their operation.

The dynamic nature of logistics means reacting quickly to meet new challenges. Our solutions, based on proven packages will help you do that by combining standard as well as unique features to meet your requirements. In this way we can use our experience to give your business a clear advantage.

We take pride in our track record, reputation for service and the quality of our people, whose industry and product knowledge covers all aspects of logistics IT. This capability, and a commitment to deliver excellence are key factors in ensuring the success of any project you undertake with us.



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