

PEOPLESOFT MOBILE INVENTORY MANAGEMENT



KEY FEATURES

- Real-time Windows-based mobile transactions
- Reduction of data entry errors through barcode scanning
- Support for transactions and inquiries in receiving, inventory, and Healthcare PAR count functionality
- Rapid deployment leveraging existing PeopleSoft Inventory and Purchasing business processes
- Security enabled by Role and UserID
- Leveraging of PeopleSoft Security set-up
- Easy personalization of page rendering based on user preferences

PeopleSoft Mobile Inventory Management application enables automated mobile user operations. Users perform tasks using handheld Windows-enabled devices, PDAs, tablets, and handheld scanners. The use of mobile devices results in improved data accuracy, increased mobility, and convenience, thereby streamlining movement, counts, and inquiries while reducing human errors. PeopleSoft Mobile Inventory Management is part of the PeopleSoft Supply Chain Management solution, which is the integrated suite that streamlines planning, manufacturing, and fulfillment.

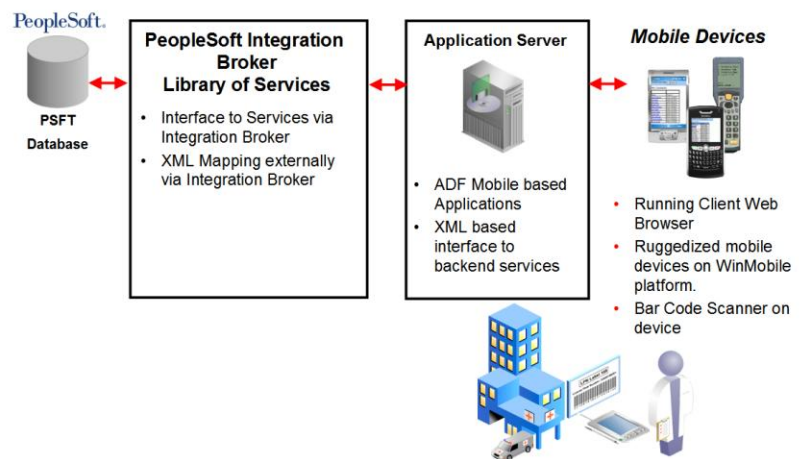


Figure 1. Mobile Inventory Management architecture

Mobile Inventory Management Architecture

Leverage the power of PeopleSoft Inventory coupled with Fusion Middleware

PeopleSoft Mobile Inventory Management operates in real-time connected mode, which you can use on any rugged mobile device that uses a WinMobile browser. The device manufacturers, such as Motorola/Symbol and Intermec, use the WinMobile browser technology with their most popular devices used in warehouse data collection environments. We used Mobile Application Development Framework (Mobile ADF), an Oracle Fusion technology, to develop the PeopleSoft mobile application. Mobile ADF runs on the application server and is the intermediary for communication between the mobile device and the host Inventory application. Java code running on the application server drives the data collection

BENEFITS

- Improve inventory accuracy
- Improve labor productivity
- Adapt to rapidly changing mobile technology

applications on mobile devices. The Mobile ADF environment is flexible so that you can easily add or change the user interface that appears on the mobile screen while at the same time send modular transaction services back to the host application. The application collects data from mobile devices, formats it into XML messages, and communicates to the PeopleSoft Integration Broker. The PeopleSoft Integration Broker Library of Services is the gateway to the PeopleSoft Enterprise Inventory system, which provides prebuilt services to communicate transactions to and from mobile devices. The integration Broker works in real-time mode to communicate with both the application server and to update the host PeopleSoft application. PeopleSoft Mobile Inventory Management is an example of the direction in which Oracle's Fusion applications are headed. We used new Oracle Fusion technology to develop the Mobile Inventory Management application. You can receive immediate benefits using the new Fusion capabilities that complement and extend your existing PeopleSoft ERP system.

Improve Inventory Accuracy

Reduce Data Entry Errors with Barcode scanning

Using barcode scanning rather than manual data entry to record transaction data improves data accuracy and reduces data entry time. Mobile devices increase productivity through reduced data entry and streamlined user time-motion activities, and they enable process automation, which increases throughput and decreases material cycle times.

Improve Transaction Accuracy with Real-Time Data Validation

Inventory accuracy improves two-fold through the reduction of data entry errors as well as the capability to identify inventory inaccuracies faster. Inventory accuracy techniques such as cycle counting are more efficient when performed with real-time barcode scanning capabilities. The benefits of improved inventory accuracy include having the right material on hand when needed, optimizing replenishment and fulfillment plans, and decreasing the carrying costs of excess materials.

Reduce Latency Using Mobile Devices

Mobile devices allow users to enter transactions and perform queries in real time at the point of use. Transaction validation takes place online, identifying valid data immediately. Real-time inventory information improves the quality of supply chain collaboration, enables more accurate requests for replenishment orders, and optimizes warehouse and supply site scheduling activities and resources. Users have access to current and accurate information for resolving exceptions.

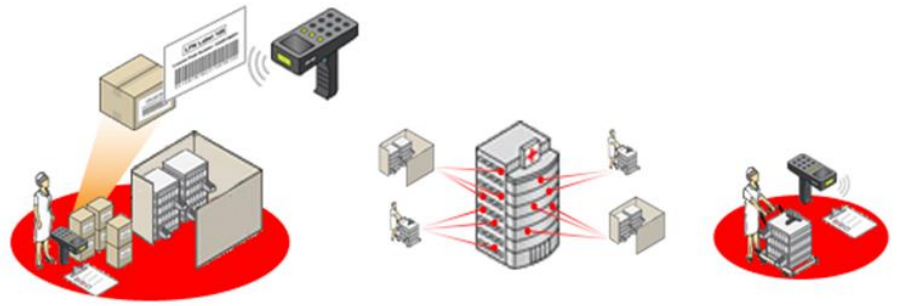


Figure 2. Mobile Inventory Management PAR Count flow

Figure 3: PAR Count

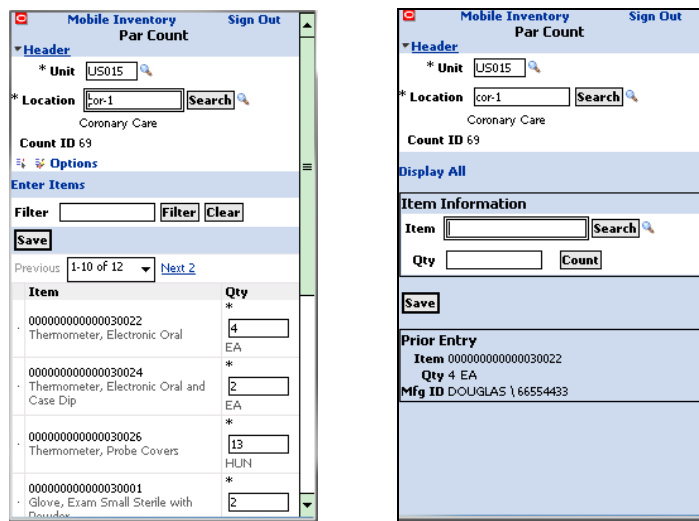


Figure 3: PAR Count Screens

Improve Worker Productivity

Accelerate Data Entry Using Mobile Devices

In combination with barcode scanning, data entry using mobile applications enables a more efficient use of time, improved time-motion activities, and an ability to perform validation and corrections online and in real time. Users also have access to more information, such as inventory availability, process receipts, and issues without having to change stations or work locations. Users may complete inventory transactions from anywhere inside or outside the facility. One mobile device can replace several desktop PCs. Mobile devices may be assigned to users or areas, significantly reducing dependencies on adequate space and allowing users to access the system wherever they are.

Accelerate Data Entry Using Mobile Devices

PeopleSoft Mobile Inventory Management also allows you to tailor the user interface (UI) to each user and specific task. Then you can configure the UI for most-used data and change it by role, userID, or task. Also, you can continuously incorporate improvements into the mobile user interface to reflect efficiencies gained by consistent use and changes to the business process. This capability simplifies the data entry requirements by task and work profile.

Adapt to Rapidly Changing Mobile Technology

Select Mobile Devices to Fit Your Needs

PeopleSoft Mobile Inventory Management is device independent when it comes to interface rendering and layout. This capability is important because companies can support multiple devices. Any PC or handheld running the standard WinMobile client supports character-based and GUI-based rendering.

Deploy Diverse Hardware with Device Independent Applications

The application logic runs on a Java-based middle tier and in the database, eliminating application code on the device and permitting the use of a wide variety of mobile devices from multiple vendors. In addition, the application runs on any PC or handheld device that can run a standard WinMobile 5.0 or 6.0 client. The standard barcode encoding formats, including 2D, and embedded data field identifiers are supported by the architecture.

Supports Inbound Logistics and Inventory Control

Because PeopleSoft Mobile Inventory Management is built into the PeopleSoft Inventory application, it leverages the business processes already established in Receiving, Fulfillment, and Inventory. Mobile Inventory Management provides an alternative, execution-based UI but does not add further complexity or overhead to existing processes. Therefore, upon implementation, users can select the UI they want to use for their day-to-day tasks. Mobile Inventory Management offers an alternative UI for key supply chain execution functions.

Mobile Inventory Management provides execution-based mobile UIs to receive purchase orders, internal requisitions, and inter-unit shipments. Updates to Receiving and Inventory occur in real-time with information enabling delivery transactions to complete the inbound logistics flow.

Mobile Inventory Management provides Inventory balance inquiries, cycle counting, physical inventory, replenishment (PAR counting), inter-unit and intra-unit transfers, and other commonly used inventory functions. The application also allows data capture of lots, serial numbers, GTIN, and other required inventory attributes.

In hospitals and distribution warehouses, where mobility is desirable but implementing a full-blown warehouse management system is not feasible or cost-effective, the PeopleSoft Mobile Inventory Management application provides a rapidly deployable supply chain execution solution. This solution enables real-time, mobile, connected entry options to reduce errors and increase user productivity wherever users perform materials management transactions.

Contact Us

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RELATED INFORMATION

RELATED PRODUCTS

- PeopleSoft Inventory
- Application Development Framework Mobile Agent



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