



Handheld Solutions for Facility Management

- Improved efficiency
- Reduced cost
- Enhanced customer service

A Plus
800 Washington Level 1
Location ▾ AC Unit

Insp Item	Note	Obsr
<input type="checkbox"/> Water		●
<input checked="" type="checkbox"/> Cooling Tower		○
<input checked="" type="checkbox"/> Filter		○
<input type="checkbox"/> Compressor		○
<input type="checkbox"/> Switches		●

Next Location All Inspected

A Plus
800 Washington Level 1
AC Unit Water

Water Temperature 48
Range 38 To 52

Observations ▾ Unclean

Action
Change Water
Call Technician
Add Rust Remover

Cancel Note
Next Item Done

Inspectors capture inspection data on handheld devices during walkthrough inspection

OBJECTIVE

Facilities management companies can considerably reduce the cost and time spent on collecting the inspection data, using the handheld devices like Palm.

Facility management inspectors need to routinely inspect various facilities from air conditioning /heating to lighting to paint condition to floor tiles. Field inspectors perform walk through inspections on sprawling campus of large buildings, exhibition grounds, Airports, Industrial plants, Amusement parks, zoos, etc.

Traditionally, these inspectors use pen and paper process to record the inspection data. They carry inspection worksheets, previous inspection records, user manuals with them on the field. Manually entering the information in the inspection worksheets and reentering it in the desktop PCs is an overwhelming work, considering the amount of data gathered by these inspectors. Moreover, this process is time consuming, error-prone and redundant.

SOLUTIONS

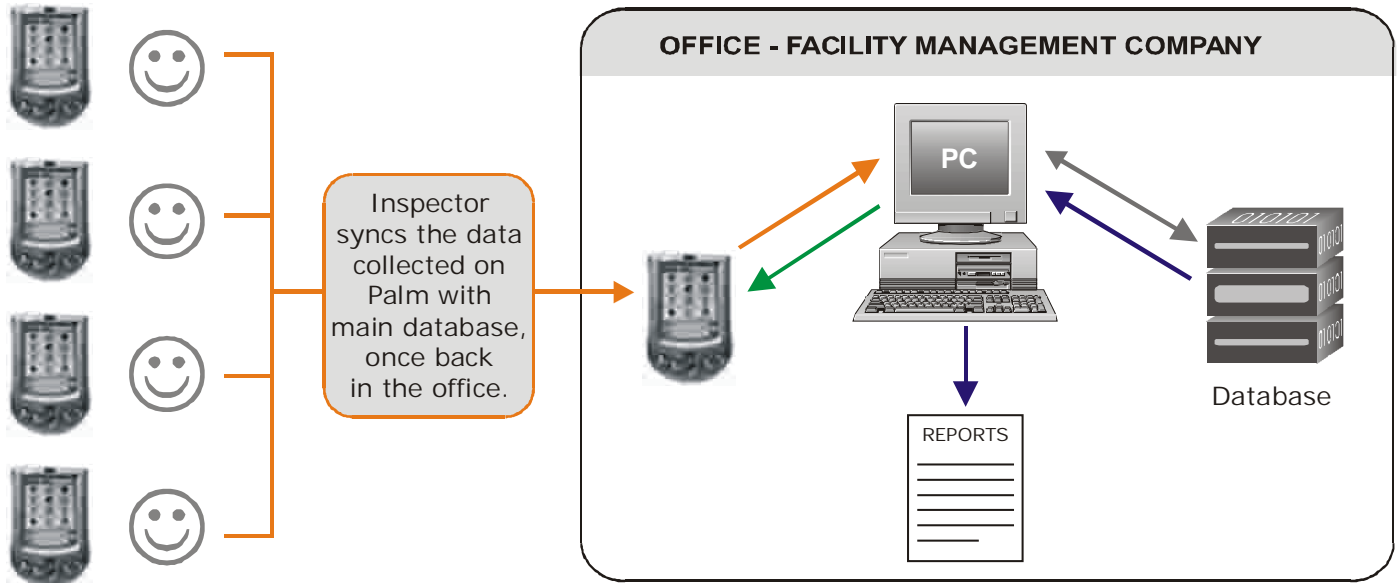
Smart Handheld Devices can make life easy for the facility management inspectors. Using Palm/ PDAs, the mobile inspectors can efficiently collect inspection data on field. The data recorded on a field can be seamlessly integrated with the Facility management software running on a desktop PC.

A typical handheld solution would consist of two components,

- ◆ Desktop Module:
Application to synchronize data between a Palm/ PDA and the main database.
- ◆ Mobile Module:
Application running on a Palm/PDA. Mobile inspectors download the data from main database on Palm before going out on field. Using the application on Palm he/she can enter the inspection data, refer user manuals, check inspection history etc. At a press of a button, the data entered on Palm would be integrated with a main database, once the inspector is back in the office. Using this data, comprehensive reports can be generated for facility manager's review.

The handheld solution can be custom built to suit the individual customer's requirements.

SCHEMATIC



Inspectors on field collecting data on Palm

TYPICAL USES

- ◆ Readings and measurements can be entered directly into Palm/PDA.
- ◆ Name of the inspector, date and time is automatically entered in Palm.
- ◆ View past inspection records.
- ◆ View patterns of recurring problems.
- ◆ Ability to indicate possible erroneous data entry.
- ◆ Ability to generate routine preventive maintenance inspection routes.
- ◆ Interfacing with bar codes scanners for automatically capturing the equipment information.
- ◆ Ability to generate work orders.
- ◆ View reference materials such as user manuals, inspection procedures, compliance regulations etc.
- ◆ Ability to interface with GPS devices for automatically capture location information and movement tracking.

KEY BENEFITS

- ◆ Reduction in time and cost of collecting inspection data due to elimination of redundant data entry.
- ◆ Increased accuracy of data due to elimination of error-prone data entry.
- ◆ Saves paper and paper work.
- ◆ Reduces time lag between service need of actual repairing.

Ultimately, a reduction in the cost of facility management and maintenance. Rare combination of enhanced data quality at reduced costs.

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