Mobile Implementation and Development

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I. Implementation Background and objectives

II. MOBILE ARCHITECTURE

III. Implementation Scope
Implementation Background

Needs of enterprise type mobile solution which can cope with enterprise environment change in real time
✓ Needs to implement mobile info infrastructure as an active strategy for rapidly changing enterprise environment
✓ Perform business process according to corporate strategy by introducing enterprise mobile solutions
✓ Deal with changes of customers and market status flexibly by reflecting created information and knowledge to corporate strategy

Conduct Business Process according to Corporate Strategy

Establish a corporate strategy
Re-establish the corporate strategy in order to be flexible for changing customers and markets

Needs Occur during Strategy Conduct
• Can I check an e-mail in real time out of office?
• Can I check a schedule saved in a computer in the office?
• Can I check any information about company out of office?
• Can I approve an urgent thing out of office?
• Is there any product to be secured when I lost a computer terminal?

Introduce enterprise type mobile solution to systematically cope with a changing environment
Implementation Objectives

- Enterprise integrated mobile work environment, information sharing in real time and communication integration in a company

- For work process renovation between organizations and effective enterprise management

**Constraint of business progress environment**

**Request for integration with various solutions**

**Any Time Any Where**

**Mobile Cooperation**

- E-mail and Schedule Management
- Address Book: Public and personal address book management
- Electronic Approval
- Management of Bulletin board for internal communication

**Mobile Integration Infrastructure**

- SFA/CRM: Door-to-Door Sales Management
- SCM: Integrated Logistics Management
- ERP: Enterprise Resource Planning

**Flexible Implementation and business progress**

- Support Open Platform
- Reduce lead time via wireless internet
- Improve to utilize and further develop works by integrating with new IT
Agenda

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Architecture - Introduction

Occasionally connected mobile devices

Mobile Device

UI + Business Logic + Data

Always connected mobile devices

Mobile Device

Browser

Synchronize mobile server via applications in device

Access to web-application via browser in Device

HTTP Communication

HTTP Communication

Synchronize backend and data via Sync Engine (DOE)

Access to backend data based on Web

SAP NetWeaver Application Server

- Monitoring
- Device Management
- Connectivity
- Data Synchronization

RFC / HTTP Communication

RFC / HTTP Communication

Backend A

Backend B

Backend C
Architecture – Thick DOE

Mobile Device Application
- Standard Development by SAP WD4J
- Be able to developed by device-suitable platform such as .NetCF / C / C++

SAP Mobile Server
- Data in a backend are saved in CDS
- Be managed as a type of XML in Device Queue
- Mobile device synchronizes data via the Queue
- provides Web-based device management and data monitoring

BACKEND
- RFC communication between SAP systems
- HTTP communication between NonSAP systems
- Non-SAP UI, Email, EAI, HTTP
## Architecture - Comparison

<table>
<thead>
<tr>
<th></th>
<th>Thick</th>
<th>Thin</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Server</strong></td>
<td>SAP Mobile Server (DOE)</td>
<td>SAP WAS</td>
</tr>
<tr>
<td><strong>Access to Application</strong></td>
<td>Via App installed on Device</td>
<td>Via a browser built in Device</td>
</tr>
<tr>
<td><strong>Application Development</strong></td>
<td>Device Platform Environment</td>
<td>WAS Environment</td>
</tr>
<tr>
<td><strong>Data Communication</strong></td>
<td>Async via Http</td>
<td>Sync via Http</td>
</tr>
<tr>
<td><strong>online / offline</strong></td>
<td>App execution is available online / offline</td>
<td>App execution is only available online</td>
</tr>
<tr>
<td><strong>Local Data</strong></td>
<td>Required for data sync with Backend</td>
<td>Not Required</td>
</tr>
<tr>
<td><strong>Communication with Server</strong></td>
<td>Once after transaction handling in Device</td>
<td>Whenever transaction is handled in Device</td>
</tr>
<tr>
<td><strong>Solutions for restricted facts about devices (Battery / Wireless)</strong></td>
<td>O</td>
<td>X</td>
</tr>
</tbody>
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The mobile implementation is based on the following type of scenario.

- Approve/Reject to create a notice of day-off of SAP ECC via mobile

  - Work Flow Setting in SAP ECC 6.0 (Creating a notice of day-off / Approval Process)
  
  - Install SAP Client on Mobile Devices [Install related DB and Application]
  
  - Developed by WDJ4, Applications are mounted on Mobile Devices