

# ITSmobile

Ralph Resech  
September, 2011



## Disclaimer

---

***This presentation outlines our general product direction and should not be relied on in making a purchase decision. This presentation is not subject to your license agreement or any other agreement with SAP. SAP has no obligation to pursue any course of business outlined in this presentation or to develop or release any functionality mentioned in this presentation. This presentation and SAP's strategy and possible future developments are subject to change and may be changed by SAP at any time for any reason without notice. This document is provided without a warranty of any kind, either express or implied, including but not limited to, the implied warranties of merchantability, fitness for a particular purpose, or non-infringement. SAP assumes no responsibility for errors or omissions in this document, except if such damages were caused by SAP intentionally or grossly negligent.***



# Agenda

---

- What is ITSmobile
- For which use cases do I use ITSmobile
- What do I need to use ITSmobile
- Is this it or will there be further development



# What is ITSmobile



# What is ITSmobile

---

**ITSmobile can be used to access SAP applications from mobile devices like handheld barcode scanners**

**ITSmobile is:**

- An application using the Internet Transaction Server (ITS)
- Available for any supported SAP release (ABAP)
- Rather for blue collar workers than for white collar
- An open framework for highly specialized applications



**And technically:**

- A pure online technology
- All browser based (no SAP software on the device)
- No “out of the box” solution but a very adaptable and flexible framework



**For which use cases do I use ITSmobile**

## ITSmobile use cases (1/2)

---

**Since ITSmobile is a browser based technology it can be used on any device that has a browser installed. Anyway there are some use cases that are more common than others.**

The SAP standard applications, ITSmobile is mainly used for, are:

- SAP WM (Warehouse Management which is a part of SAP ERP)
- SAP EWM (Extended Warehouse Management)
- SAP AII (Auto-ID Integration)

You can also use ITSmobile for your self developed applications

- As long as they are written in SAP Dynpro
- And only use screen elements which are supported by ITSmobile

**There are many SAP customers using ITSmobile and some of them use ITSmobile in totally different use cases and environments.**

## ITSmobile use cases (2/2)

---

### **ITSmobile comes prepared for different use cases.**

- Mobile applications using barcode scanners for data capturing (RF Devices)
- Mobile applications controlled by voice (e.g. pick by voice)
- Mobile applications using RFID for data capturing

### **ITSmobile can be used for other use cases, too**

- Hardware that comes with the device can be used, too
  - Signature capturing
  - Camera pictures
  - Mobile printers
  - GPS coordinates
- As long as there is an interface to the browser
- You have to do the implementation yourself





# What do I need to use ITSmobile



# What do I need to use ITSmobile (infrastructure)

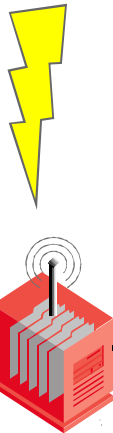
**SAP NetWeaver based systems**



**Prior to SAP NetWeaver**

**WiFi or other radio**

**SAP ABAP system**



**SAP ITS 6.20 SAP ABAP system**



# What do I need to use ITSmobile (within SAP)

## Within the SAP system the following things are required

- An ABAP application consisting of Dynpros that have the right size for the device you want to use and using only screen elements supported by ITSmobile
- An “Internet Service” for that application
- A set of ITSmobile templates for your Dynpros

## Optional things you can do or have

- Device Include file
- Customized CSS (Cascading Style Sheet) file
- Customized JavaScript file
- Modified generator / templates
- Hardware integration interfaces
- 3<sup>rd</sup> party tools
- ...

A screenshot of a SAP menu screen. It features a list of five menu items: 01 System-Guided, 02 Manual Selection, 03 Inbound Processes, 04 Outbound Processes, and 05 Internal Processes. Below the list is a 'Menu' label and an input field. At the bottom left, there is a yellow button labeled 'F1 Logoff'.

A screenshot of the 'Auto-ID Mobile' SAP screen. The title bar shows 'Auto-ID Mobile' and the SAP logo. The screen contains several input fields and function buttons: 'Move' (with 'F2 Clear' button), 'F3 Back' button, 'ID' (input field), 'Loc.' (input field with 'CPS-LOC-LOAD'), 'Type' (input field with 'Default'), 'ID Count' (input field with '0'), 'F5 Add ID' button, 'F6 IDList' button, 'F7 Locs' button, 'F8 LocTyp' button, and a small input field with '1'.



**Is this it or will there be further development**

# ITSmobile outlook

## What we are currently working on

---

### **We are currently working on a graphical editor for the ITSmobile templates**

What can this be used for?

- To change the look and feel of a screen without modifying the application
- Remove unused fields from a screen and increase the size of the remaining screen elements without modification
- Emphasize some elements by color
- Since it will be easy to use and it works without modifications you can make those changes by the guys in the warehouse or together with them to make the applications as close to their environment as possible

With that editor there will also be a new template generator that uses a more recent kind of HTML code. Therefore this will not be available for all old versions of Windows Mobile and Windows CE. A list of supported versions will come.

# ITSmobile outlook

## What could come later

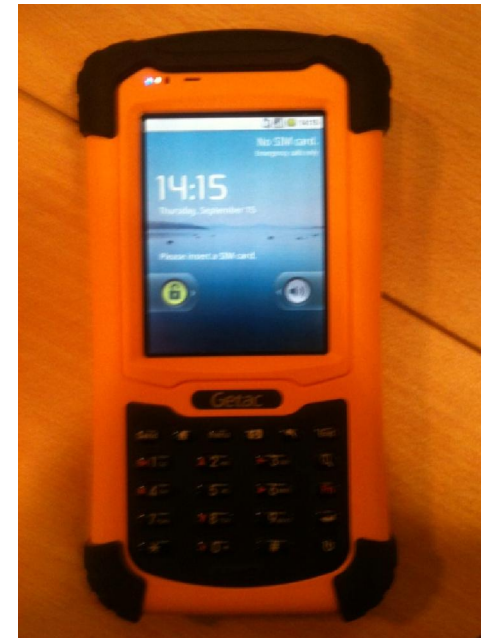
---

**Just last week Getac ([www.getac.com](http://www.getac.com)) announced their first ruggedized device with Android as operating system**

With such modern operating systems and modern browsers you could do much modern kinds of applications and use much leaner communication interfaces.

e.g.

- HTML 5
- Support for Apps
- jQuery Mobile
- JSON



# ITSmobile outlook

## What you can do (even today)

---

**Some possibilities ITSmobile provides are widely unknown but provide great opportunities for building custom applications.**

“Custom properties” can be used to bring the content of ABAP variables to the ITSmobile template. This can for example be used for:

- Dynamic colors of screen elements (e.g. Switch a screen element to red if it gets urgent or if a picked quantity exceeds the amount in stock)

### Single Sign On with smart cards

- If you find a device with a smart card reader you could log your users on with such cards getting rid of all the username password problems

### Modified logon screen

- The source code of the logon screen is available in the system and you can use it to build your own look

### Modified template generator

- If you don't like the template code we generate you can use our generator to derive your own from it



# Thank You!

Ralph Resech  
Product Manager  
PS IMS NetWeaver Foundation



SAP AG  
Dietmar-Hopp-Allee 16  
69190 Walldorf  
Germany

Phone	+49 6227 7 47774
Fax	+49 6227 7 822129
E-Mail	<a href="mailto:ralph.resech@sap.com">ralph.resech@sap.com</a>

# © 2011 SAP AG. All rights reserved.

---

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP AG. The information contained herein may be changed without prior notice.

Some software products marketed by SAP AG and its distributors contain proprietary software components of other software vendors.

Microsoft, Windows, Excel, Outlook, and PowerPoint are registered trademarks of Microsoft Corporation.

IBM, DB2, DB2 Universal Database, System i, System i5, System p, System p5, System x, System z, System z10, System z9, z10, z9, iSeries, pSeries, xSeries, zSeries, eServer, z/VM, z/OS, i5/OS, S/390, OS/390, OS/400, AS/400, S/390 Parallel Enterprise Server, PowerVM, Power Architecture, POWER6+, POWER6, POWER5+, POWER5, POWER, OpenPower, PowerPC, BatchPipes, BladeCenter, System Storage, GPFS, HACMP, RETAIN, DB2 Connect, RACF, Redbooks, OS/2, Parallel Sysplex, MVS/ESA, AIX, Intelligent Miner, WebSphere, Netfinity, Tivoli and Informix are trademarks or registered trademarks of IBM Corporation.

Linux is the registered trademark of Linus Torvalds in the U.S. and other countries.

Adobe, the Adobe logo, Acrobat, PostScript, and Reader are either trademarks or registered trademarks of Adobe Systems Incorporated in the United States and/or other countries.

Oracle and Java are registered trademarks of Oracle and/or its affiliates.

UNIX, X/Open, OSF/1, and Motif are registered trademarks of the Open Group.

Citrix, ICA, Program Neighborhood, MetaFrame, WinFrame, VideoFrame, and MultiWin are trademarks or registered trademarks of Citrix Systems, Inc.

HTML, XML, XHTML and W3C are trademarks or registered trademarks of W3C®, World Wide Web Consortium, Massachusetts Institute of Technology.

SAP, R/3, SAP NetWeaver, Duet, PartnerEdge, ByDesign, SAP BusinessObjects Explorer, StreamWork, and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP AG in Germany and other countries.

Business Objects and the Business Objects logo, BusinessObjects, Crystal Reports, Crystal Decisions, Web Intelligence, Xcelsius, and other Business Objects products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of Business Objects Software Ltd. Business Objects is an SAP company.

Sybase and Adaptive Server, iAnywhere, Sybase 365, SQL Anywhere, and other Sybase products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of Sybase, Inc. Sybase is an SAP company.

All other product and service names mentioned are the trademarks of their respective companies. Data contained in this document serves informational purposes only. National product specifications may vary.

The information in this document is proprietary to SAP. No part of this document may be reproduced, copied, or transmitted in any form or for any purpose without the express prior written permission of SAP AG.

# © 2011 SAP AG. Alle Rechte vorbehalten.

---

Weitergabe und Vervielfältigung dieser Publikation oder von Teilen daraus sind, zu welchem Zweck und in welcher Form auch immer, ohne die ausdrückliche schriftliche Genehmigung durch SAP AG nicht gestattet. In dieser Publikation enthaltene Informationen können ohne vorherige Ankündigung geändert werden.

Die von SAP AG oder deren Vertriebsfirmen angebotenen Softwareprodukte können Softwarekomponenten auch anderer Softwarehersteller enthalten.

Microsoft, Windows, Excel, Outlook, und PowerPoint sind eingetragene Marken der Microsoft Corporation.

IBM, DB2, DB2 Universal Database, System i, System i5, System p, System p5, System x, System z, System z10, System z9, z10, z9, iSeries, pSeries, xSeries, zSeries, eServer, z/VM, z/OS, i5/OS, S/390, OS/390, OS/400, AS/400, S/390 Parallel Enterprise Server, PowerVM, Power Architecture, POWER6+, POWER6, POWER5+, POWER5, POWER, OpenPower, PowerPC, BatchPipes, BladeCenter, System Storage, GPFS, HACMP, RETAIN, DB2 Connect, RACF, Redbooks, OS/2, Parallel Sysplex, MVS/ESA, AIX, Intelligent Miner, WebSphere, Netfinity, Tivoli und Informix sind Marken oder eingetragene Marken der IBM Corporation.

Linux ist eine eingetragene Marke von Linus Torvalds in den USA und anderen Ländern.

Adobe, das Adobe-Logo, Acrobat, PostScript und Reader sind Marken oder eingetragene Marken von Adobe Systems Incorporated in den USA und/oder anderen Ländern.

Oracle und Java sind eingetragene Marken von Oracle und/oder ihrer Tochtergesellschaften.

UNIX, X/Open, OSF/1 und Motif sind eingetragene Marken der Open Group.

Citrix, ICA, Program Neighborhood, MetaFrame, WinFrame, VideoFrame und MultiWin sind Marken oder eingetragene Marken von Citrix Systems, Inc.

HTML, XML, XHTML und W3C sind Marken oder eingetragene Marken des W3C®, World Wide Web Consortium, Massachusetts Institute of Technology.

SAP, R/3, SAP NetWeaver, Duet, PartnerEdge, ByDesign, SAP BusinessObjects Explorer, StreamWork und weitere im Text erwähnte SAP-Produkte und -Dienstleistungen sowie die entsprechenden Logos sind Marken oder eingetragene Marken der SAP AG in Deutschland und anderen Ländern.

Business Objects und das Business-Objects-Logo, BusinessObjects, Crystal Reports, Crystal Decisions, Web Intelligence, Xcelsius und andere im Text erwähnte Business-Objects-Produkte und -Dienstleistungen sowie die entsprechenden Logos sind Marken oder eingetragene Marken der Business Objects Software Ltd. Business Objects ist ein Unternehmen der SAP AG.

Sybase und Adaptive Server, iAnywhere, Sybase 365, SQL Anywhere und weitere im Text erwähnte Sybase-Produkte und -Dienstleistungen sowie die entsprechenden Logos sind Marken oder eingetragene Marken der Sybase Inc. Sybase ist ein Unternehmen der SAP AG.

Alle anderen Namen von Produkten und Dienstleistungen sind Marken der jeweiligen Firmen. Die Angaben im Text sind unverbindlich und dienen lediglich zu Informationszwecken. Produkte können länderspezifische Unterschiede aufweisen.

Die in dieser Publikation enthaltene Information ist Eigentum der SAP. Weitergabe und Vervielfältigung dieser Publikation oder von Teilen daraus sind, zu welchem Zweck und in welcher Form auch immer, nur mit ausdrücklicher schriftlicher Genehmigung durch SAP AG gestattet.