SAP HANA Cloud Platform mobile services

Martin Grasshoff
Product Management – SAP Mobile Platform
Legal disclaimer

The information in this presentation is confidential and proprietary to SAP and may not be disclosed without the permission of SAP. This presentation is not subject to your license agreement or any other service or subscription agreement with SAP. SAP has no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation and SAP’s strategy and possible future developments, products and or platforms directions and functionality are all subject to change and may be changed by SAP at any time for any reason without notice. The information in this document is not a commitment, promise or legal obligation to deliver any material, code or functionality. 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. This document is for informational purposes and may not be incorporated into a contract. SAP assumes no responsibility for errors or omissions in this document, except if such damages were caused by SAP´s willful misconduct or gross negligence.

All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates, and they should not be relied upon in making purchasing decisions.
AN OPEN, SECURE, FULL-SPECTRUM MOBILE PLATFORM

<table>
<thead>
<tr>
<th>B2E</th>
<th>Open and Standards-based</th>
<th>Rapid with SDKs</th>
<th>Native Hybrid Mobile Web Metadata SMS</th>
<th>Android iOS Windows</th>
<th>Offline</th>
</tr>
</thead>
</table>

**SAP Mobile Platform**

**HANA Cloud Platform mobile services**

<table>
<thead>
<tr>
<th>App Services</th>
<th>Platform Services</th>
<th>Layered Protection of the Enterprise</th>
<th>Back-end Agnostic</th>
<th>Lifecycle Management</th>
<th>Analytics and Reporting</th>
</tr>
</thead>
</table>
Delivering a mobile experience
Key elements for taking advantage of mobile capabilities

- **Native Capabilities**
  - Camera, Location, and more

- **Push**
  - Get notified...

- **Lifecycle Management**
  - Stay up to date

- **Security & Authentication**
  - Secure the access, data, etc.

- **Third Party apps**
  - Access attachments, calendar, …

- **Offline**
  - Continue working

- **App Analytics**
  - Understanding usage

---

**Mobile Experience**
- Exceeding user expectation

---

**Reusable Platform components**

* Future Planned Innovation
Driving innovation in mobility ... and beyond

Key Mobile Services
- Application Development
- Deep Offline
- Security
- Logging/Tracking
- Integration
- LifeCycle Management
- Push
- Provisioning
- Deployment

HCPms
- Drive HCPms Launch
  - Securely integrate 3rd party systems
  - New SDK functionality
  - Core HCPms functionality, with rapid Innovation cycles
  - Leverage cloud/ HCP capabilities
  - Build custom apps quickly

Consistent Strategy, One SDK, One Codebase*

SMP
- Drive SMP 3.0 Adoption
  - New SDK Functionality
  - New Server Functionality
  - Fiori Mobile & Innovations for Syclo
  - Maintenance Extension
  - SMP 3.0 Roadshow

Continuous Innovation without Disruption
One SAP Mobile SDK

One decoupled SDK

Serves all Mobile Platform variants

Value of the decoupled SDK

- Enables faster release cycle for SDK
- Faster support of new device OS versions
- Choice of On-premise and Cloud Deployment
- Choice of Hybrid or Native Development
SAP HANA Cloud Platform
Product Description

SAP HANA Cloud Platform is the in-memory Platform-as-a-Service (PaaS) offering from SAP. It enables customers and partners to build and run business applications in the cloud.

Use cases
- Build new applications
- Extend on-premise SAP solutions
- Extend cloud SAP solutions

Key differentiators
- Standards-based development environment
- Full access to capabilities of SAP HANA
- Different runtime containers and wide range of application services
- Superior integration with SAP landscapes
- Secure and compliant infrastructure

Target groups
- Customers
- Partners
Was ist Hybrid App Development

Build for multiple Platforms at once

Secure Runtime

WebIDE support

Web IDE (or other)

- Windows 8.1
- Android
- iOS

HTML5, JS, CSS

3rd party plugin
- AppUpdate
- AuthProxy
- EncryptedStorage
- Logger
- Logon
- Push
- Settings
SAP Fiori Client in Action

App Store
Free
Works best for Fiori Apps
Platform add additional value
• Secure, remote access without VPN
• Application Passcode
• Enhanced logging, remote log level set and remote retrieval
• Notifications (Push)*

*Roadmap
## Comparison of Fiori Mobile Consumption Options

<table>
<thead>
<tr>
<th></th>
<th>Standard Browser</th>
<th>Fiori Client</th>
<th>Fiori Client + SMP 3.0 / HCP MS</th>
<th>Custom Client + SMP 3.0* / HCP MS</th>
<th>Standalone App (pre-packaged) + SMP*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Native Application</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Fiori Launchpad</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Single Fiori App (allows for Windows Live Tile)</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Real-time Update detection (Server)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>n/a</td>
</tr>
<tr>
<td>Real-time Delta Update detection (SMP + Server)</td>
<td>planned</td>
<td>planned</td>
<td>n/a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote Update (SMP AppUpdate)</td>
<td>n/a</td>
<td>n/a</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Device API Integration</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Offline</td>
<td>(X)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Use Custom Plugins</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Custom Branding</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

* SAP Mobile SDK needed
How this all works – End to End
Build, distribute, deploy

SAPUI5
- Responsive Design
- Extensible Controls
- HTML5 JavaScript CSS

Fiori
- Build your own
- Fiori Extensions

Web IDE

Designtime

Hybrid Application Toolkit

Runtime

HCP web

Browser

HCPms SMP

Hybrid Mobile App

© 2015 SAP SE or an SAP affiliate company. All rights reserved.
Proof point: Hybrid app development

SAP Partner built “Warehouse Accelerator” app

- One developer (beginner)
- Cross-platform hybrid app
- Main functions:
  - Pick: retrieve items for shipping
  - Putaway: stock incoming inventory
  - Move: shift inventory storage

Total development time:
5 person-days
Proof point: Native development

SAP Partner MSC mobile built “Shelf Plus” app

- Six part-time, experienced developers
- Native iOS app with
  - Offline
  - Mapping
  - Augmented Reality
- Main functions:
  - Show retail store locations
  - Quickly identify required items
  - Capture displayed inventory

Total development time:
35 person-days
Questions
Try it out
Free trial for SAP HANA Cloud Platform mobile services

Follow the instructions listed here:
http://scn.sap.com/community/developer-center/mobility-platform/blog/2014/12/18/how-to-enable-hana-cloud-platform-mobile-services-trial
Thank you!

Feel free to connect with me at:

✉️ martin.grasshoff@sap.com