SAP HANA Cloud Platform mobile services

Martin Grasshoff / SAP Mobile Platform Product Management
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Where we come from
Simplify & Consolidate multiple platforms for organic growth

- On-premise: Mobiliser, Sylo, SUP
- Engineering Codebases: Sybase Mobiliser Codebase, Sylo Agentry Codebase, Sybase Unwired Platform Codebase
- Cloud: SMP Cloud Version, HANA Cloud Platform Mobile Services

Timeline:
- 2013
- 2014
- 2015
- 19th Sept
- 29th Sept

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Solution Overview
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
SAP HANA Cloud Platform mobile services

- Flexible and Scalable runtime for mobile Apps
  *Start small and grow*

- Shares SDK with SMP
  *Write once – deploy HCPms or SMP*

- Enables Offline Applications
  *Rich OData Offline Application development – easy learn*

- Enhanced Push API
  *Easy to integrate back-end systems via REST API*

- Supports native and hybrid web Apps, both online and offline with Odata
HCP mobile services supports full on-demand scenarios where the backend is available as a cloud system.

HCP mobile services supports hybrid on-demand scenarios where the backend resides on-premise and is made available via the SAP HANA Cloud Connector.
SAP Mobile SDK

One decoupled SDK

Serves all Mobile Platform variants

Not all viable App-types are possible with all Mobile Platform servers
Key Features
Full OData Offline support – same as SAP Mobile Platform 3.0 SP04

- OData as the common model
- Take remote OData services and run them locally on device
- UltraLite as client database
- Optimized for OData services supporting Delta Query
- Middle-tier caching of generic OData collections
- Optimized initial data load to device
- Enables Conflict Management
Enhanced Push Services

Introducing new PUSH APIs:

- Notify a device via registration ID
- Notify all devices with registered application
- Notify all devices registered to an user/application
- Notify a list of users
- Notify a list of devices
Mobilizing Fiori
SAP Fiori Client in Action

User
Password
Language EN - English

My Home
My Opportunities
Account
74

My Accounts
REMA US Inc.Key Account
SAP Jam Group

My Contacts
My Accounts

Critical Opportunities
SAP Jam Group

SAP Fiori Client
FIORI URL
https://fiori.mycompany.com

CACHE
Clear
Clears the cache

Statistics
Displays cache hits, misses, download rates and cache invalidation information

LOGGING

Status
Log Level
Error

View Log File
Displays the log file in a browser
Mobilizing Fiori – what does that mean?

<table>
<thead>
<tr>
<th>Secure, remote access without VPN</th>
<th>Odata Offline</th>
<th>Application Passcode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notifications (Push)</td>
<td>Enhanced logging, remote log level set and remote retrieval</td>
<td>Admin controlled access to device features</td>
</tr>
<tr>
<td>Performance enhancements</td>
<td>Client-side interface with SAP Afaria for configuration and certificate management</td>
<td>Native UX</td>
</tr>
</tbody>
</table>
## Comparison of Fiori Mobile Consumption Options

<table>
<thead>
<tr>
<th>Feature</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>X</td>
<td>X</td>
<td>X</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>
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<tr>
<td>Real-time Delta Update detection (SMP + Server)</td>
<td>planned</td>
<td>planned</td>
<td>planned</td>
<td>n/a</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>planned</td>
<td>planned</td>
<td>planned</td>
<td>(X)</td>
<td></td>
</tr>
<tr>
<td>Use Custom Plugins</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Custom Branding</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

* SAP Mobile SDK needed
Vision of Cloud-Based Development
Roadmap and Releases
SAP HANA Cloud Platform mobile services
Overview: Simplicity

**Product Capabilities**
- Full Kapsel/Native SDK support
- Offline OData
- Push API

**Key Benefits**
- Leverage SAP Mobile Platform SDK to develop native or hybrid applications
- Reuse common developer knowledge
- Create full offline mobile apps
- Easier propagation of back-end events to devices, allowing near real time user experience

**SAP Mobile Platform SDK**
- AppUpdate
- AuthProxy
- EncryptedStorage
- Logger
- Logon
- Push
- Settings
- Offline

TODAY
SAP HANA Cloud Platform mobile services
Planned Innovations: Premium Services

Product Capabilities

- Messaging service
- Context-based services
  - Geofencing
  - Notifications
  - Real-Time Analysis

Key Benefits

- Make your apps collaborative with out-of-the-box messaging and social media integration
- Draw users in with instantly relevant information and alerts with context-driven notifications.
- Enhance Apps with advanced location awareness features
- Empower users with contextually generated mobile analytics that are real-time and interactive

PLANNED INNOVATIONS

This is the current state of planning and may be changed by SAP at any time.
SAP HANA Cloud Platform mobile services
Overview: Core Mobile Services

Product Capabilities

- Simplified administration
- SAML 2 web security
- On-premise data access
- Mobile Place discovery services integration

Key Benefits

- New, modern admin UX streamlines administrative tasks
- Administration via mobile devices
- Reuse your cloud identity provider
- Secure data access to on-premise systems through the HANA Cloud Connector
- Enable “zero-configuration” for App onboarding, making App provisioning and consumption hassle-free
### Product Capabilities
- OAuth 2 web security
- Two-factor onboarding
- Continuous improvements
- Usage analytics

### Key Benefits
- Increase Security by eliminating attack vectors
- Better integrate with social networks and learn more about your users
- Maximum operational efficiency with continuous updates and fixes transparently without down time
- Advanced usage analytics provide strategic insight into app and device usage patterns and critical performance metrics

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**PLANNED INNOVATIONS**

This is the current state of planning and may be changed by SAP at any time.
SAP HANA Cloud Platform mobile services
Planned Innovations: New Global Data Centers

New Global Data Centers

- Amsterdam, Netherlands
- Phoenix, AZ, US

Key Benefits

- Expanding data centers for high performance and global reach

This is the current state of planning and may be changed by SAP at any time.
Release Pattern

- **SAP Mobile Platform 3.x**
  - **Major Release**
  - **SP Release**
  - **Feature Release**

- **HANA Cloud Platform Mobile Services**
  - Q1 2015
  - Q2 2015
  - Q3 2015
  - Q4 2015
Demo

OData Service

Mobile Services Configuration

App Registration & Data Retrieval

<app:service xmlns:app="http://
xmlns:m="http://schemas.microsoft
xml:base="https://sapes1.sapdev

Your Customers

SAP
Waldorf
http://www.sap.com
tel: 12345

Becker Berlin
Berlin
http://www.beckerberlin.de
tel: 308850

DelBont Industries
Wilmington, Delaware
http://www.delbont.com
tel: 3023352868

Talpa
Hannover
http://www.talpa-hannover.de
tel: 511403260
## Summary

### KEY FEATURES
- **Deploy & Manage** OData-based applications
- **Full Offline Apps** support
- **Notify** users using native **Push** features
- **Report & Analyse** usage of applications, devices, users, etc.
- **Access** on-premise or other cloud-based services
- **Reuse** on-premise SAP Mobile SDK

### BUSINESS VALUE
- **Rapid Adoption** One-Day Deployment
- **Subscription Pricing**
- **Minimize** disruption and/or operational/upgrade cost due to rapid innovation in mobile

### TARGET ROLES
- **Administrators** who chooses to deploy mobile applications without major investments and/or own infrastructure, and thus reducing operational costs
- **Developers** who needs to build a solution to be deployed quickly, and subsequently have updated apps be pushed out quickly
- **Users** will never interact with the system directly
Thank you

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