

# SAP HCP Using HCP for Mobile Apps

Dirk Olderdissen Solution Advisor



## 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.

### **SAP HCP – Webinar Series 4 SAP User Groups**

#### Moderator: Jos Houben

SAP HCP Mar 17 Prakash Darii Digital Future Enabled by SAP HANA Cloud Platform Uddhav Gupta / Maria Yu SAP HCP and HEC: How they compare and combine Mar 29 Jana Richter Apr 4 Building new Analytical Solutions on HCP Filip Misovski Apr 6 Building Cloud extensions with HCP Building on-premise extensions on HCP Bertram Ganz Apr 12 Dirk Olderdissen **SAP HCP – Using HCP for Mobile Apps** Apr 14 SAP HCP – Addressing Security Concerns Martin Raepple Apr 19

## Agenda

- Hana Cloud Platform
  - Usage scenarios
  - Mobile application types
- SAP Mobile Platform
- SAP Mobile SDK

## Hana Cloud Platform

- Integrate, extend and build



### Usage scenarios

### - Externalize on-premise applications

One major part of integrating and extending applications is the externalization.

- Traditional on-premise systems
  - Externalize using middleware and proxy

#### Hana Cloud Platform

- Externalize using Hana Cloud Connector
  - Outbound encrypted connection
  - Individual, configurable, app specific connections
  - Additional security and authentication options



## **Mobile application types**







#### Web App

• HTML5 + adaptive design

## Hybrid Mobile App

- HTML5 inside a native wrapper
- Apache Cordova

## Native App

- Development in device specific, native programming languages
- Code specific to Device OS

## Mobile application types

- differentiation



This is an illustration only. The suitability of each application type is subject to indivudual project considerations.



## **SAP Mobile Platform**



## **SAP Mobile Platform**



\*Apps based on SMP 2.3 or older versions may require some changes to run on SMP 3.0

#### **Mobile Platform** - Offline and Push

#### **OData Offline capabilites**

- Offline apps with Hybrid SDK and native SDK
- Also for SAP Fiori

#### **Push support**

- Native notification integration (APNS, GCM, WNS)
- Back end system can send PUSH notifications easily



11

## **Mobile Platform**

#### - Application management

#### **Application registration**

- Every app on every device can be uniquely identified
- Enables Push notifications

#### App usage and versions

- What app version are in the field on which devices
- Number of connections
- App usage details (clicks on functions etc)



## **Mobile Platform**

- Governance

#### Security

- Security Profiles authentication
- Client policies password, logging, device access
- Services Whitelist defines access to services

#### Maintainability

- Resource bundles apps can download resources (e.g. config data, localization settings, ...)
- In-place updates Hybrid apps can be updated via HCPms
- Remote logging, usage reporting, end-to-end tracing, ...





## **Mobile SDK**

SAP Mobile Software Development Kit



## **SAP Mobile SDK**

### - Components



#### Hybrid SDK (Kapsel)

- Plugins for Apache Cordova for building HTML5 apps.
- Provides mobile qualities for developers e.g.
  logon, security, offline, push, native integration, …

#### Native SDK

• Resources for developers to build native applications and include mobile platform features

#### Other

- MDD Meta Data Driven apps. Used by the SAP field service applications (Syclo)
- Mobilizer For mobile banking and payment
- REST API Platform interface for apps that do not use the mobile SDK

## **SAP Fiori on mobile devices**

#### - Fiori Mobile context



1-Fiori Mobile (Fiori Client app using Mobile Platform), 2-Fiori Client without Mobile Platform, 3-Webbrowser

\*Out of the box Push support for Fiori and Fiori Client is a road map feature. SAP roadmap disclaimer applies \*\*SAP Fior, cloud edition premium - is a planned feature and subject to change, the SAP roadmap disclaimer applies

16

## HTML5 app development

- SAP WebIDE context



## HCP technologies and their mobile use case

#### **Create web apps**

- SAP WebIDE
- SAP Build

#### Run web apps

- Hana Cloud Platform
- SAP Cloud Portal
- SAP Fiori launchpad
- SAP Fiori cloud edition



This is a high level overview that serves as an illustration and not a comprehensive list of all possible technology options

18

## HCP technologies and their mobile use case

#### Create hybrid apps

- Hybrid SDK / Kapsel
- SAP Build
- SAP WebIDE

#### **Develop native apps**

• Native mobile SDK

#### Distribute, manage and build

- HCP mobile secure
- Fiori cloud, premium edition



This is a high level overview that serves as an illustration and not a comprehensive list of all possible technology options

## HCP technologies and their mobile use case

#### Serve web apps

- Hana Cloud Platform
- SAP Fiori launchpad
- SAP Fiori cloud edition
- SAP Cloud Portal

#### Serve Hybrid and Native

HCP mobile services

#### **Easy Fiori mobilization**

SAP Fiori cloud edition



This is a high level overview that serves as an illustration and not a comprehensive list of all possible technology options

20

## Summary



## **Going mobile with Hana Cloud Platform**

 Build mobile apps for many use case

 Open development paradigms

• Build, integrate and extend





# Thank you

#### **Contact information:**

Dirk Olderdissen Solution Advisor, Expert

dirk.olderdissen@sap.com

## © 2016 SAP SE or an SAP affiliate company. 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 SE or an SAP affiliate company.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. Please see <a href="http://global12.sap.com/corporate-en/legal/copyright/index.epx">http://global12.sap.com/corporate-en/legal/copyright/index.epx</a> for additional trademark information and notices.

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

National product specifications may vary.

These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP SE or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP SE or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have 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 SE's or its affiliated companies' strategy and possible future developments, products, and/or platform directions and functionality are all subject to change and may be changed by SAP SE or its affiliated companies 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. All forwardlooking 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.