

SAP mobile applications

Technical Overview for 1.0

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Agenda

- SAP mobile applications' concept
- Application Landscape
- Installing SAP mobile applications





SAP mobile applications

SAP mobile applications

Main characteristics

SAP mobile applications



- Always connected – keeps a local cache for offline search
- No automatic synchronization (refresh pulled from client or notification pushed from server)
- Business logic runs on server
- Intuitive and easy to use – like iPhone app
- Easy to deploy; up and running in minutes

SAP mobile applications

Employee Lookup, Sales Order Lookup, Travel Expenses



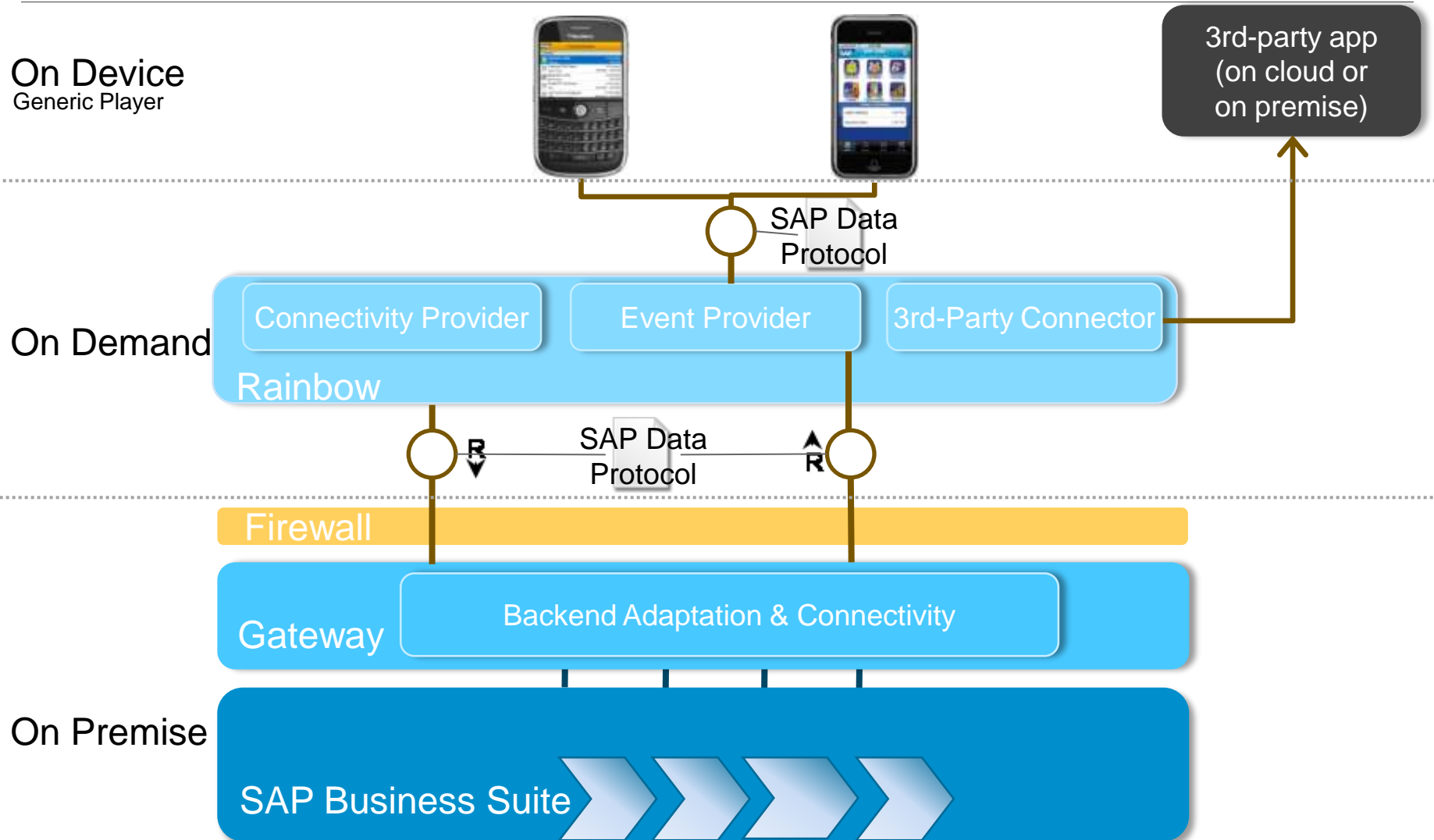


SAP mobile application landscape

- Device
- Rainbow
- Gateway
- Backend Add-On

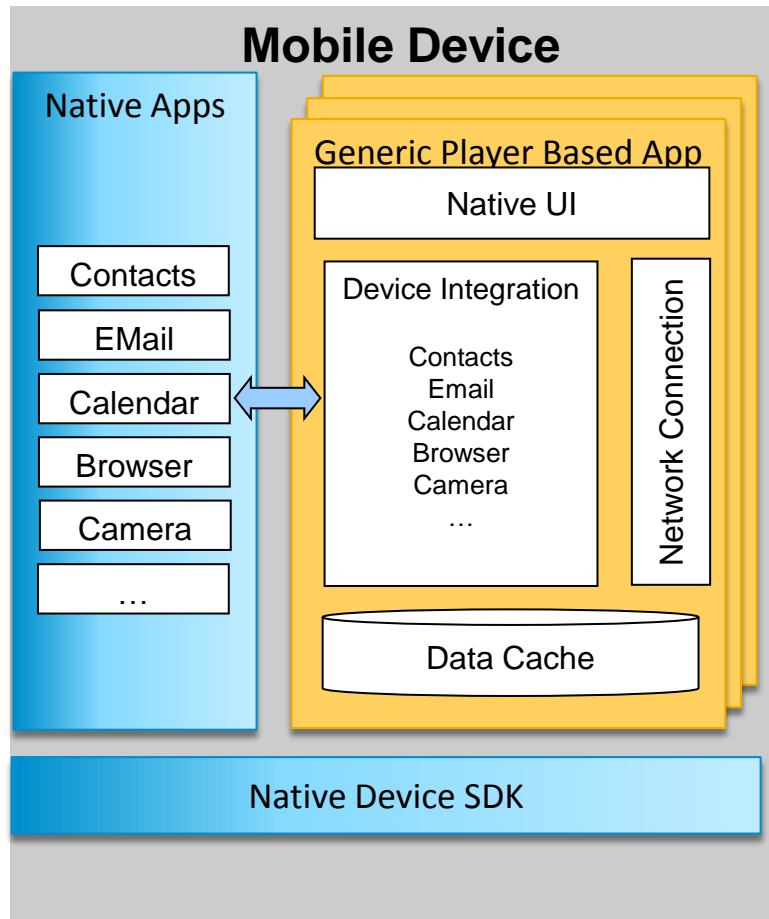
SAP mobile applications from Mobile Device to Backend

High Level Overview



From Device to Backend

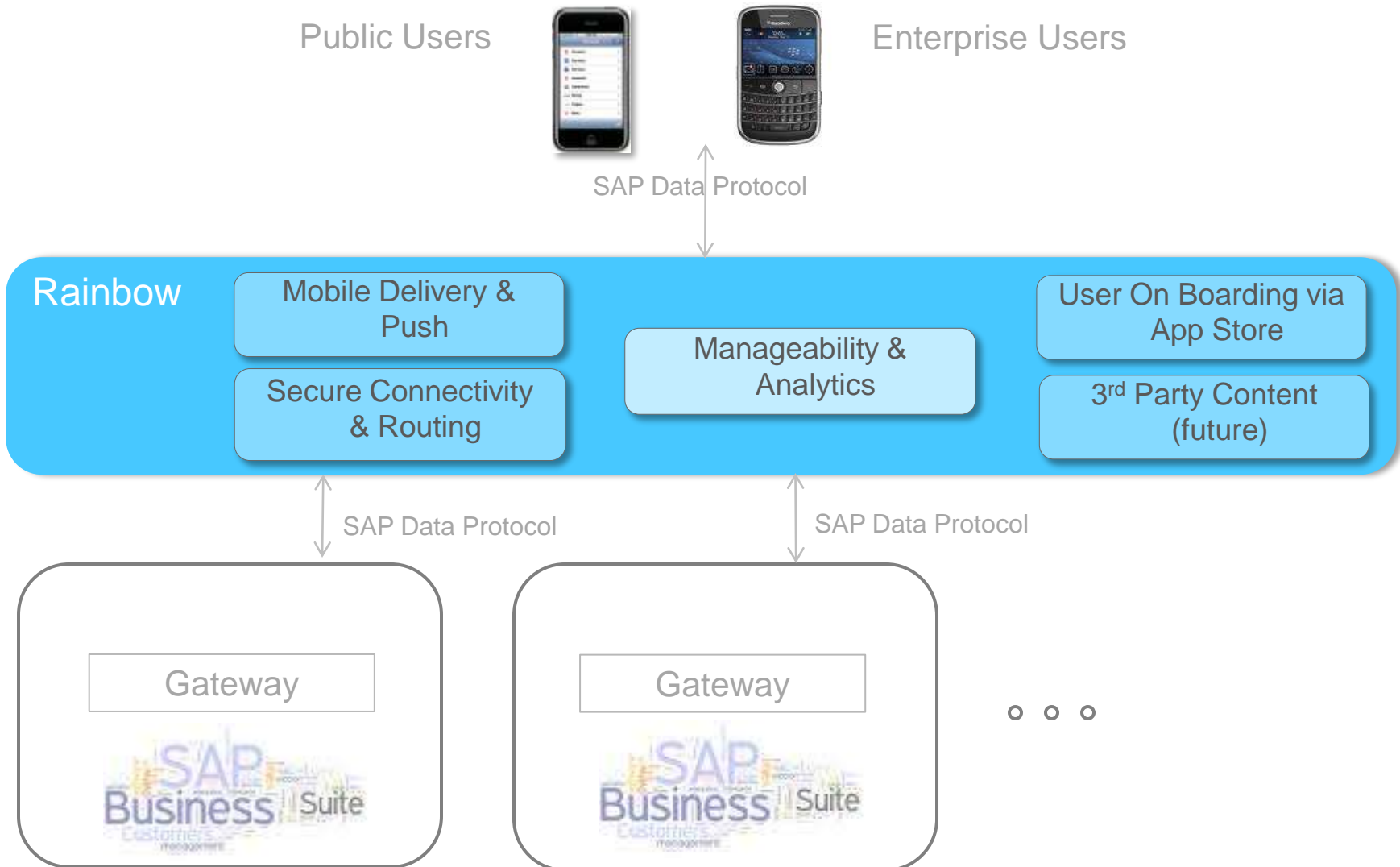
Device



- SAP mobile applications make use of the native UI of the device
- Metadata of UI elements to be rendered are retrieved from the backend at run-time, together with the business data, using the SAP Data Protocol.
- BlackBerry and iPhone platforms are supported for the Gamma release (Travel Expense Blackberry only). Support for additional platforms will be added in 2011.

From device to backend

Rainbow - Connects Mobile Devices to On Premise SAP Systems



From Device to Backend

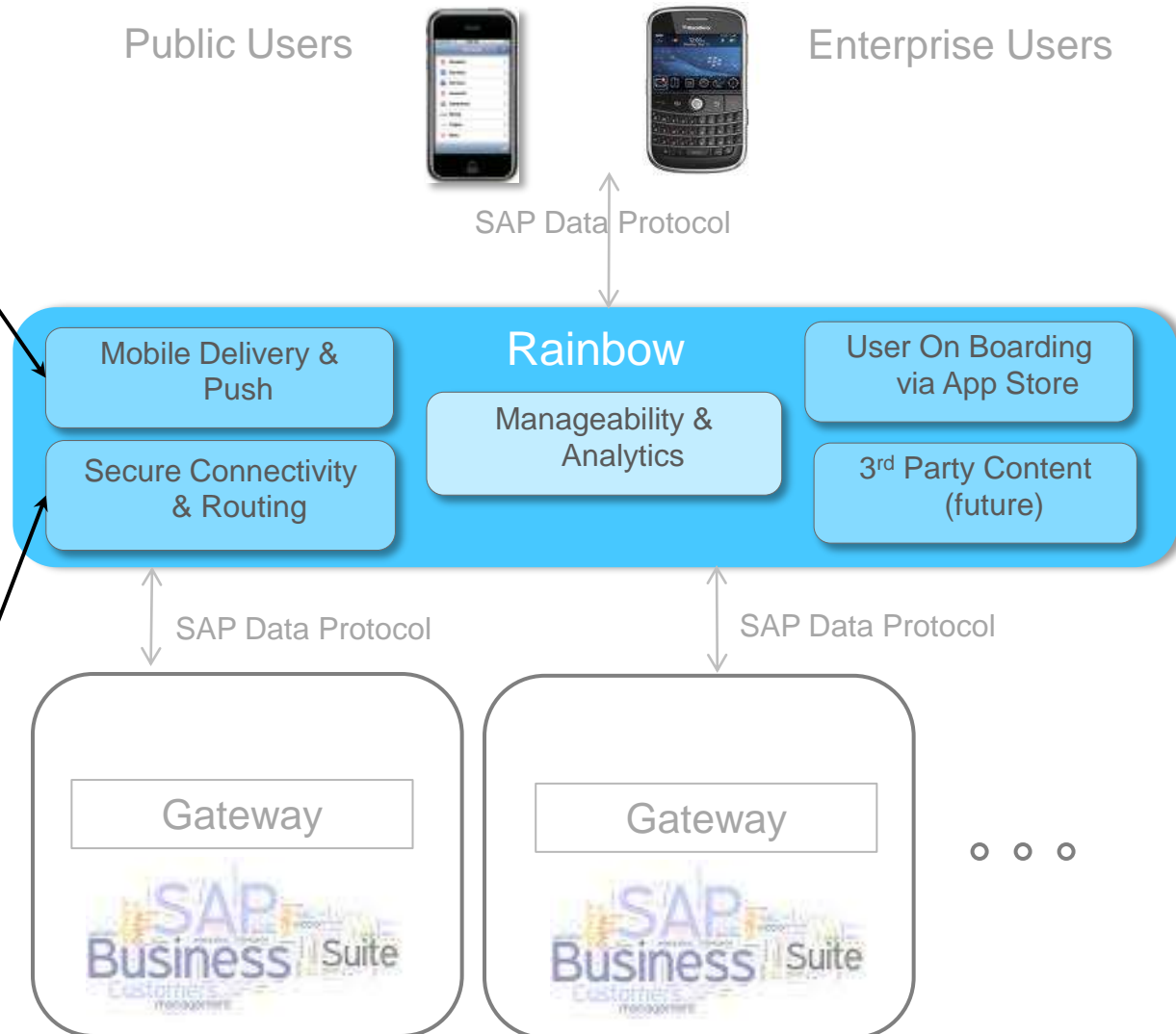
Rainbow - Connects Mobile Devices to On Premise SAP Systems



- Receives “events” (push messages, notifications) from backend applications and delivers them to the right user and right device
- Manages the delivery of notifications (and in future release approvals) to mobile devices via device-specific push mechanisms.

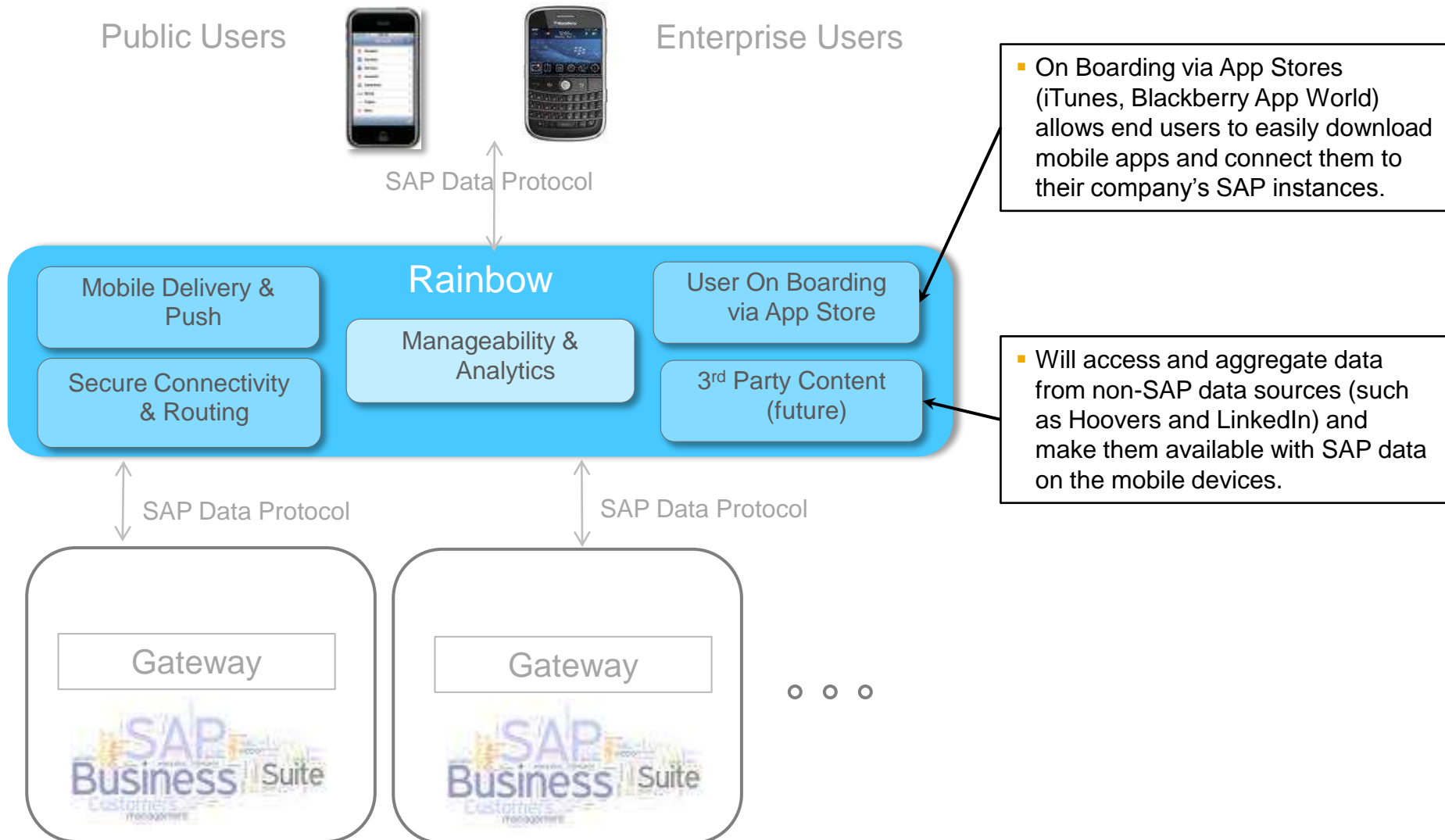
Note: Used by Sales Orders application

- Establishes secure connections and logon mechanisms between devices and the SAP backend through the corporate firewall.
- Provides secure connectivity and routing between mobile devices and (On Premise) backend systems



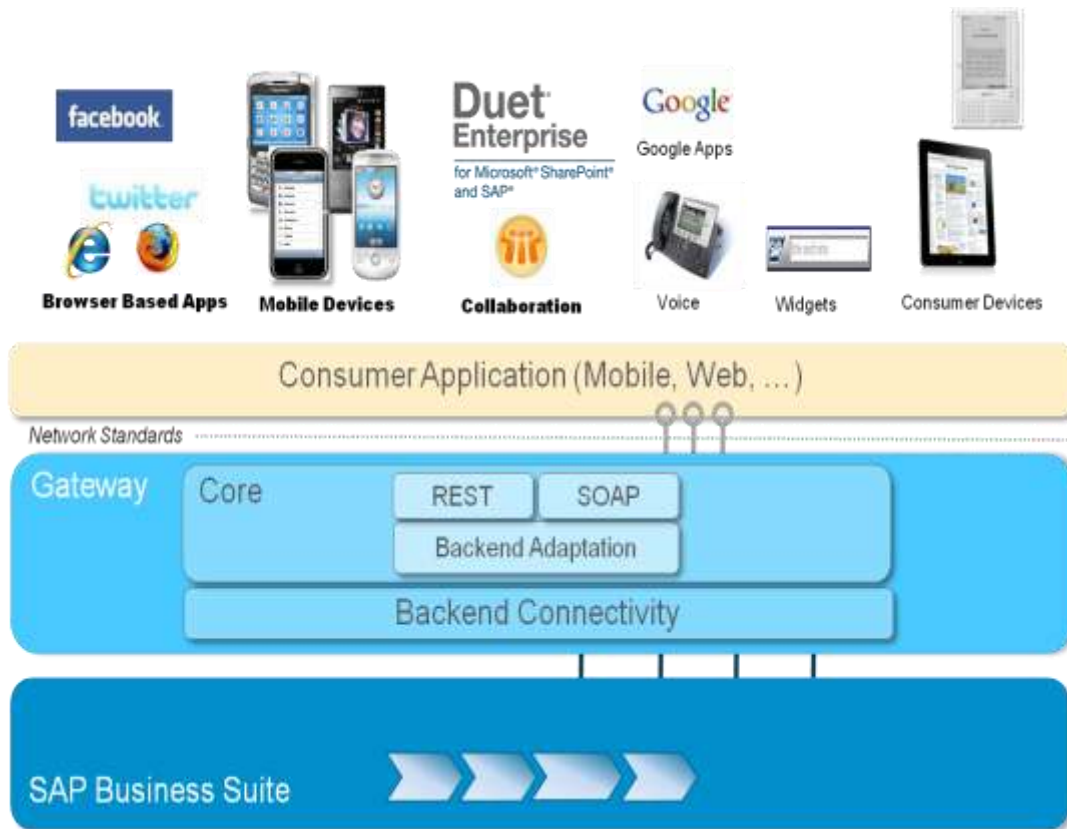
From Device to Backend

Rainbow - Connects Mobile Devices to On Premise SAP Systems



From Device to Backend

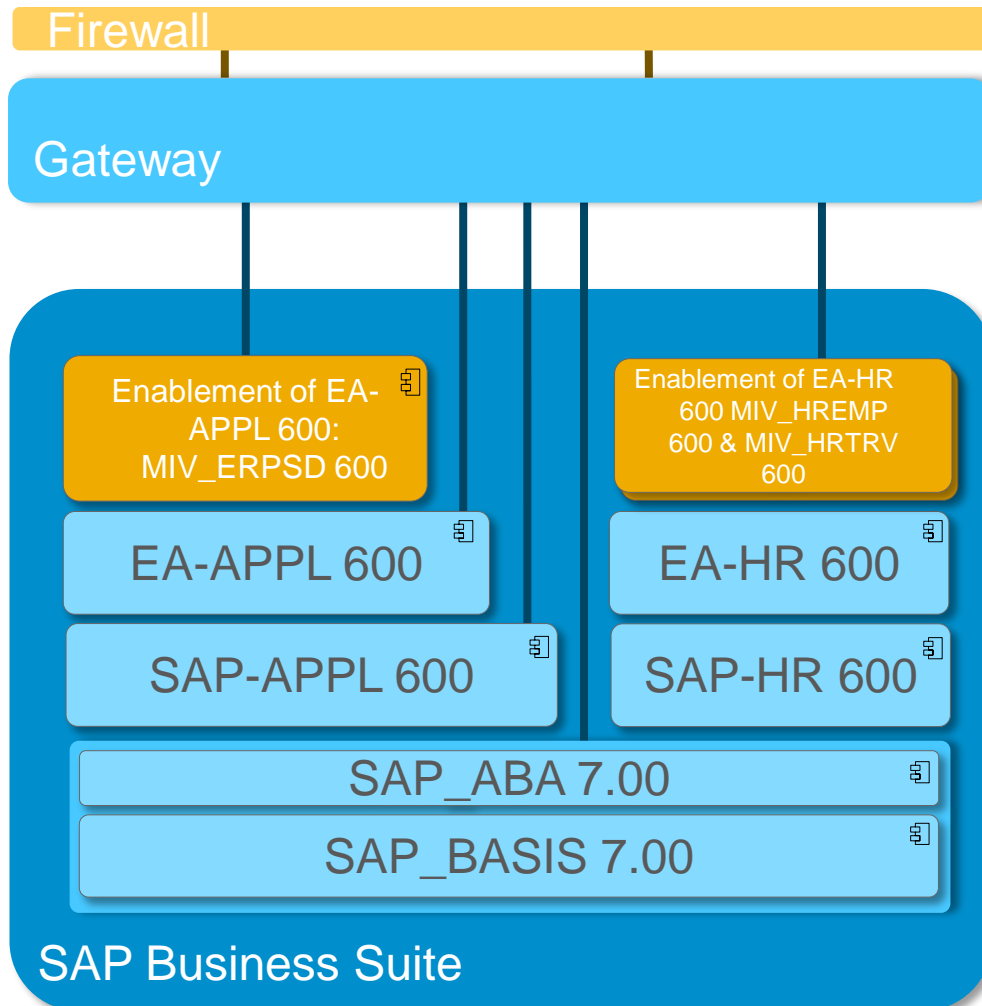
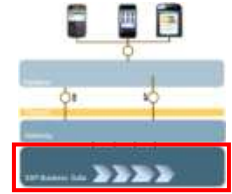
Gateway - Access to SAP from Any Device and Platform



- Enables UI-centric consumption of SAP Business Suite
- Exposes backend functionality and data
- Existing Business Suite objects are modelled in Gateway objects
- Strong infrastructure for identity and lifecycle management
- Optimization for high-volume and low complexity use-cases
- SAP mobile applications use the modeling (Backend Adaptation) and RFC connectivity provider (Backend connectivity) capabilities of Gateway

From Device to Backend

Backend Add-On – Making a SAP System Mobile



Data is provided from the Suite backend to Gateway via:

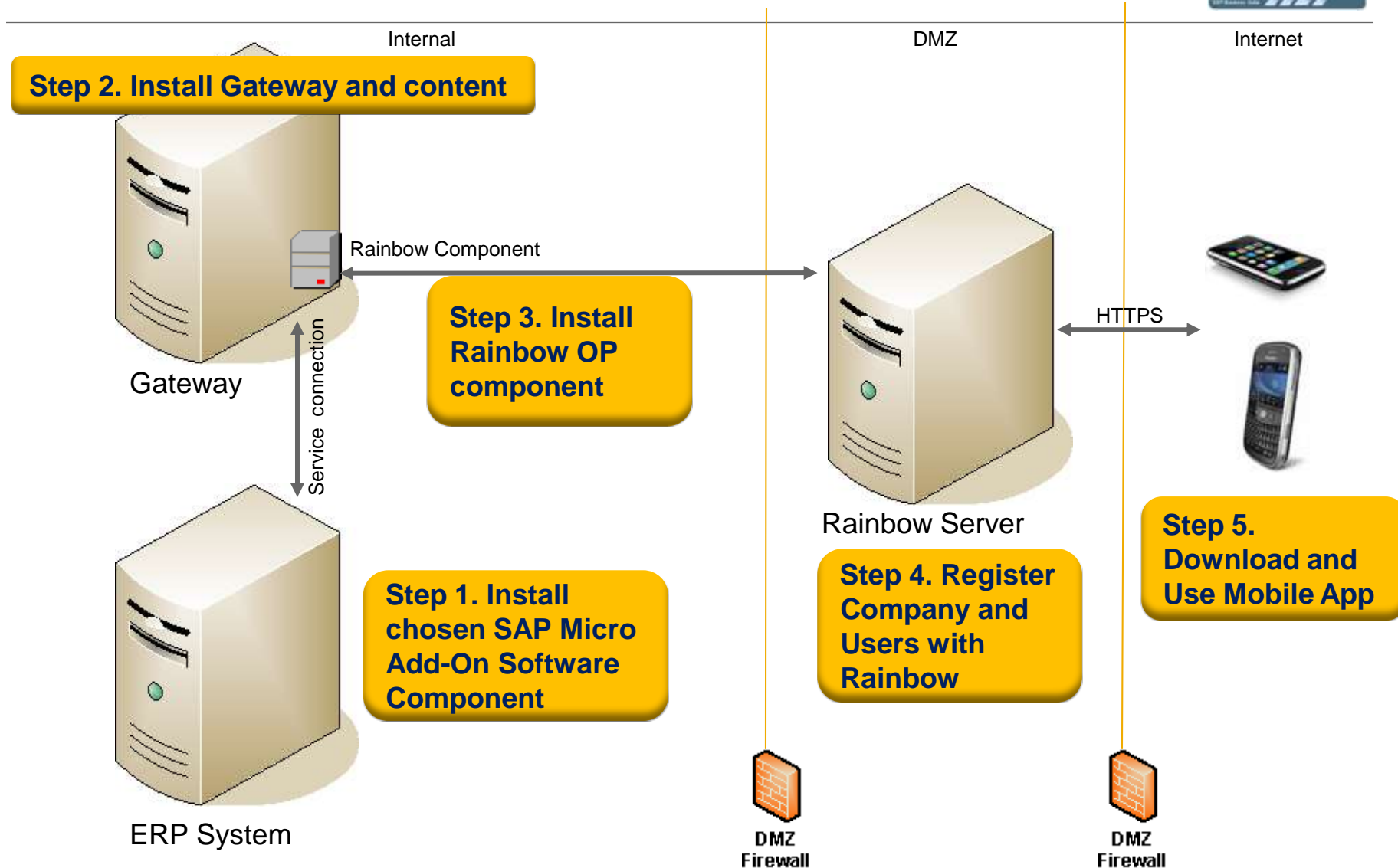
- Exposing Suite data to Gateway via RFCs
- Reuse of existing remote APIs
- If no RFC enabled APIs were available, “BAPI” Wrappers (API wrapping) were introduced and RFC enabled.
- Creation of new remote APIs in a new software component layer (Micro Add-On)
- MIV_HREMP 600 for Employee Lookup
- MIV_HRTRV 600 for Travel Expenses
- MIV_ERPSD 600 for Sales Orders



Installing SAP mobile applications

5 steps to deploy a SAP mobile app

Typical System landscape and setup





Thank You!

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