



Hydro & SAP Business Technology Platform

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Agenda

- Hydro & SAP
 - Team, Landscape & Roadmap
- SAP BTP
 - Initiatives and Business Drivers
- SAP Fiori
 - Architecture Modernization

Questions Welcomed!



Myself



- ✓ Dane, but been working with the (real) Vikings for years
- ✓ Joined Hydro 2019
- ✓ Developer at heart
- ✓ Technical lead on the HAMP S/4HANA Migration
- ✓ Part of the architecture & strategy team, focus on development and UX
- ✓ Living with SAP

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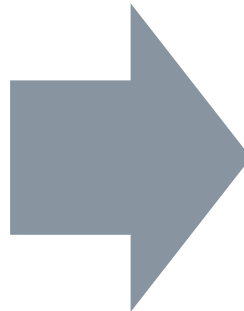
Change in daily operation

Free up time, focus on exceptions

2015

Manage Operations

- Manual transactions
- Manual controls
- Manual reporting
- Manual analysis
- ...



2025

Manage Exceptions

- Automated transactions
- Automated controls
- Automated reporting
- Predictive analysis
- Manual exception handling
- ...

SAP Architecture and Strategy (“SAP road-map”) Team



Manage the strategy and development of global SAP in Hydro by bridging the gap between IT and business and business to business

Mandate

- Overall responsible for **managing the Hydro wide SAP application strategy** (SAP road-map) and evolvement of the existing SAP landscapes

Responsibilities

- Be a **trusted advisor to the business**, by having **insight into future SAP releases and new functionality**.
- **Maximize the value** of the Hydro SAP landscape through development of common solutions and standards. **Ensure reuse** of solutions across the business in Hydro
- Increase **data insight** and transparency through development of **common solutions for user experience** and advanced **analytics** on SAP data
- Ensure that the major SAP System follows recommended **lifecycle Management** plan
- Manage the Hydro SAP project portfolio

Way of working

- **Exploration and ideation** – initiation of POC's and Pilot's due to lifecycle management or functional demands from the business
- Facilitation of **cross-BA and cross process discussions**
- Participation in **core teams** and **Procurement CoE**
- Monthly **SAP portfolio meetings** with the BA's
- **Quality assurance and design** on major projects



SAP Landscapes / Business Systems

Simplified SAP centric view

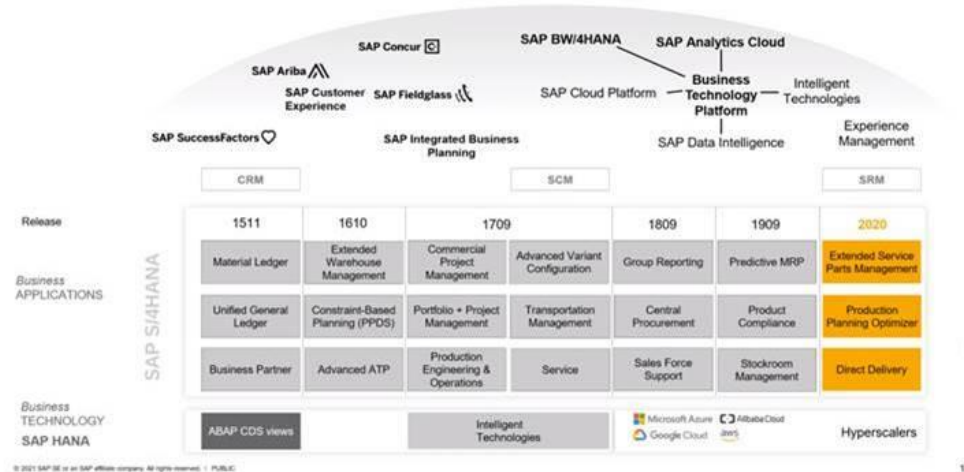


Moving From Close to Open SAP System

Our SAP system is increasingly being accessed from “outside”, increasing the need for system maintenance

- SAP S/4HANA is the center of a complex system landscape with dependencies to complementary on-premise and cloud solutions.

SAP S/4HANA Evolution of Architecture

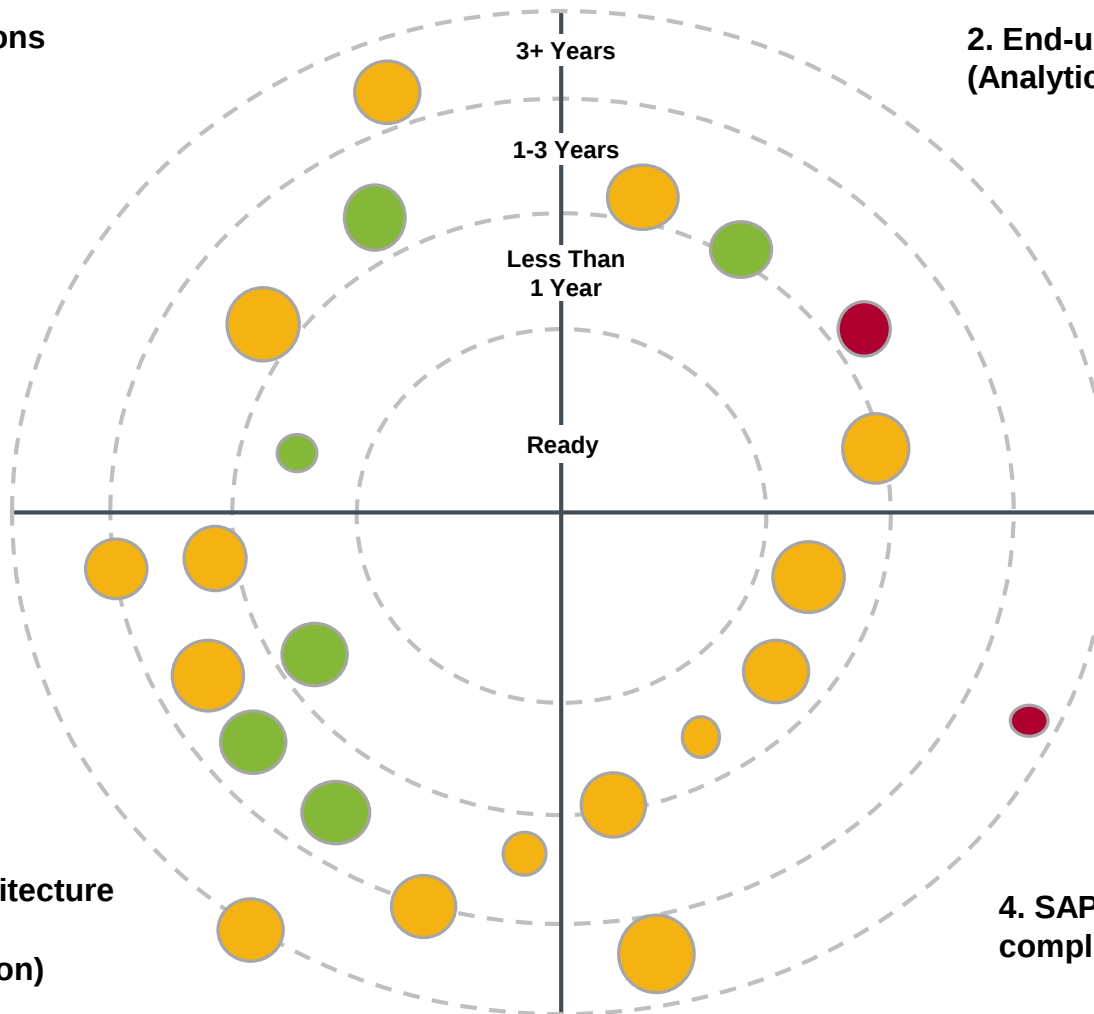


- Yearly Maintenance of on-prem S/4HANA SAP systems
 - Patch (support package)
 - Security fixes (separate SAP security patch day process)
 - Performance & Stability fixes
 - Upgrade (newer S/4 release)
 - Technical implementation, no business process changes except mandatory
 - Business projects leverages new innovations as and when needed in separate projects
- => Patch or Upgrade decision based on complexity and (projects with) business cases
- Continuous evaluation of S/4HANA innovations and improvements
 - Map against (and update) SAP Roadmap priorities
 - Gauge complexity

2023 Technology Roadmap – From Insight to Action

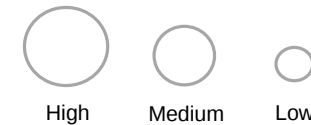
1. Integrations

2. End-user experience (Analytics and Fiori / UX)



Enterprise Value

The potential benefit that can be delivered



Deployment Risk

Marketplace maturity, Management tools, Scalability, Architecture integration, Support skills and Security



3. Application Architecture and road-map (Process automation)

4. SAP security and compliance

BTP Service Exploration

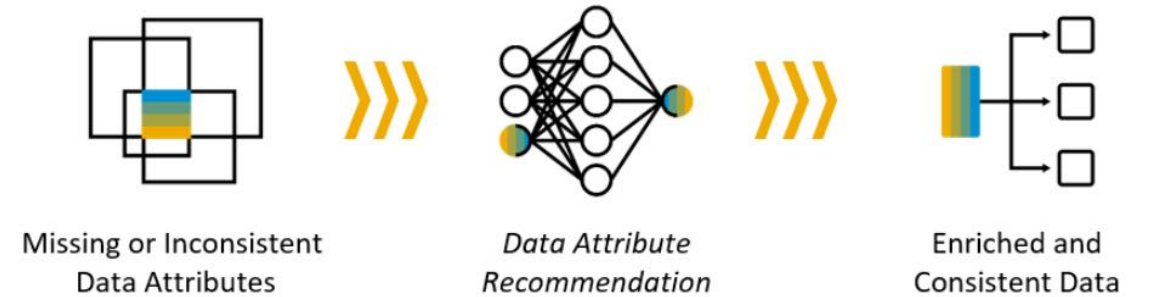


- SAP API Management / CPI / Azure API Management
 - SF, Mendix, APICS, Blockchain
- Extension Services
 - fastmarket
 - RAP vs. CAB
- SAP Enterprise Messaging
- SAP Data Intelligence
- Translation Hub
- Data Attribute recommendation
- Business Rules & Workflow
- DevOps / Cloud Transport Management

Data Attribute Recommendation

Overview

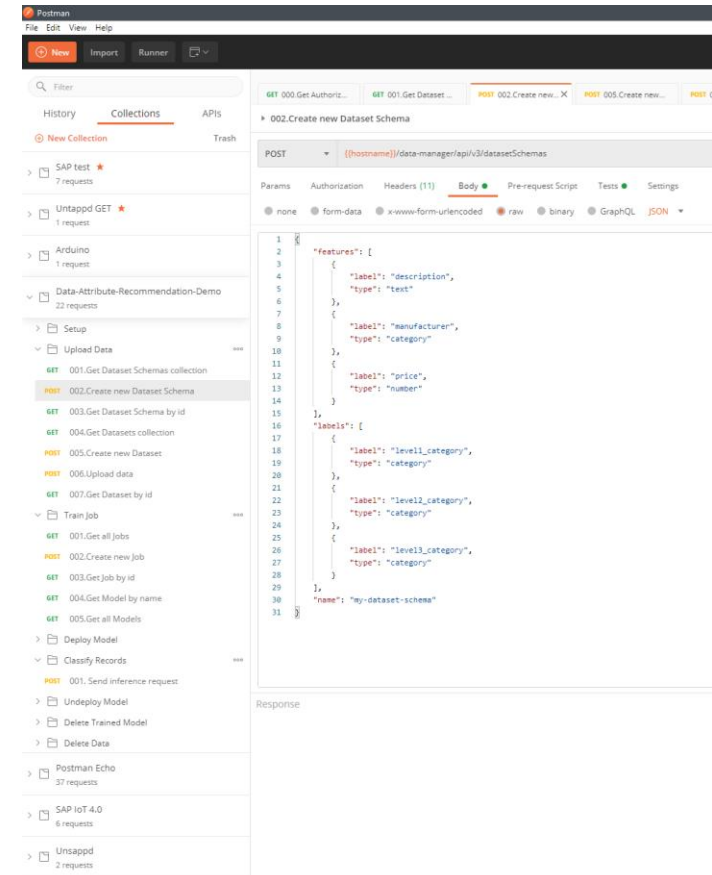
- Data Attribute Recommendation classify entities such as products, business partners and other master data into multiple classes based on:
 - Free text
 - Number
 - Categories
- Data Attribute Recommendation can be used, for example, to enrich missing attributes of a data record and classify incoming product information
- This service runs in the Cloud Foundry environment
- The solution has no GUI. Communication is only done through REST calls
 - SAP has created a Python SDK that can be used



Data Attribute Recommendation

Limitations

- The service doesn't have a user interface
- Unsure how the life cycle management is handled after a model is deployed and in productive use
- When loading historical data to train the model only CSV files can be used
 - It is not possible to train the machine learning algorithm incrementally
- The service seems like a light weight scaled down extremely limited version of SAP Data Intelligence
- The HANA PAi engine in our S/4HANA system might do the same job
 - But then need to use another ML technology than neural networks



Overall BTP Evaluation?

- Roles & User management
 - No integration with GRC, requires IAG
- Cost and License model
 - CAB deployment vs ABAP bopf/rap
- Maturity
 - Communication (service support, release, failure)
 - Usage analysis
 - Service lifecycle management
 - “logging”
 - Stability / “load balancing”
 - Backend version requirements
 - Developer intense, lack of business content / support functions

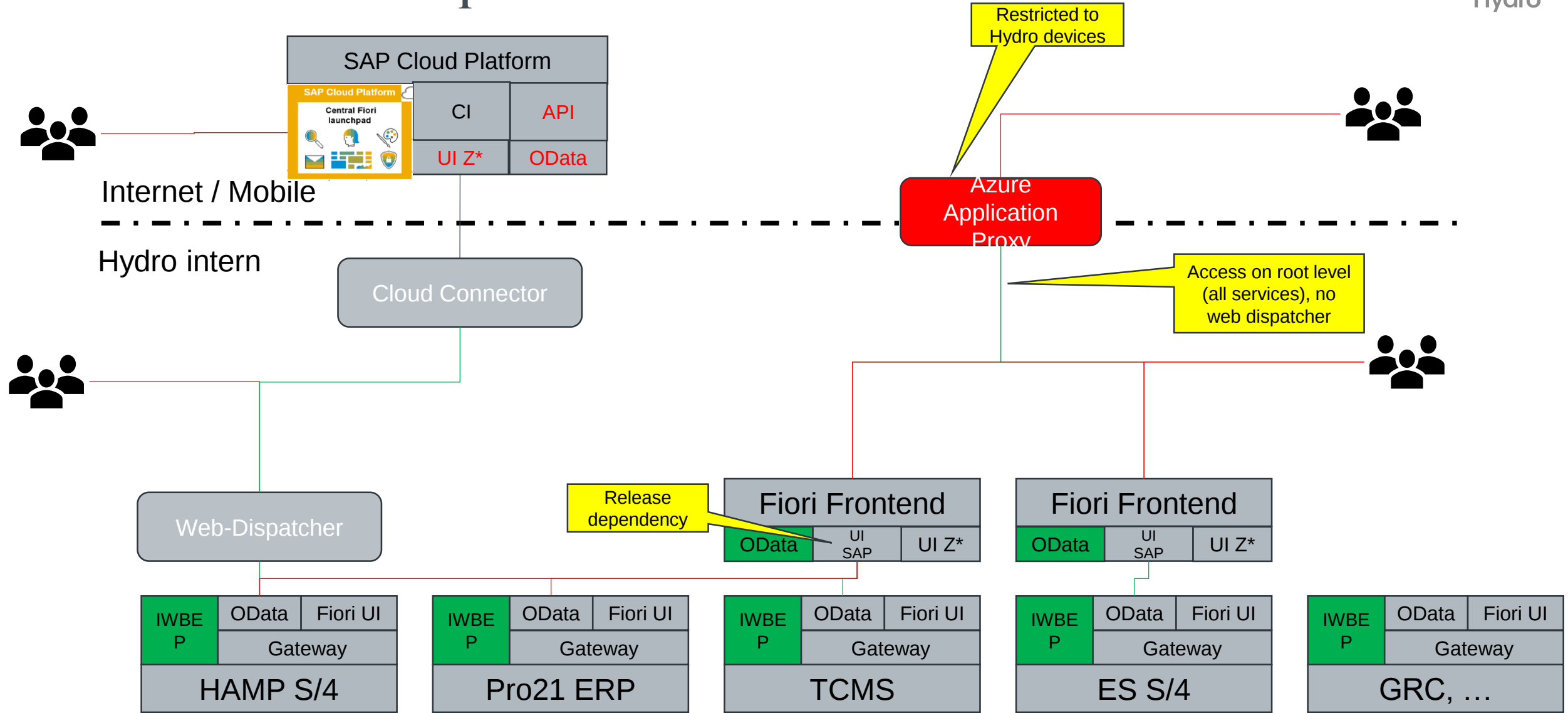
Business
Technology Platform



01

SAP Launchpad Service

Current Landscape

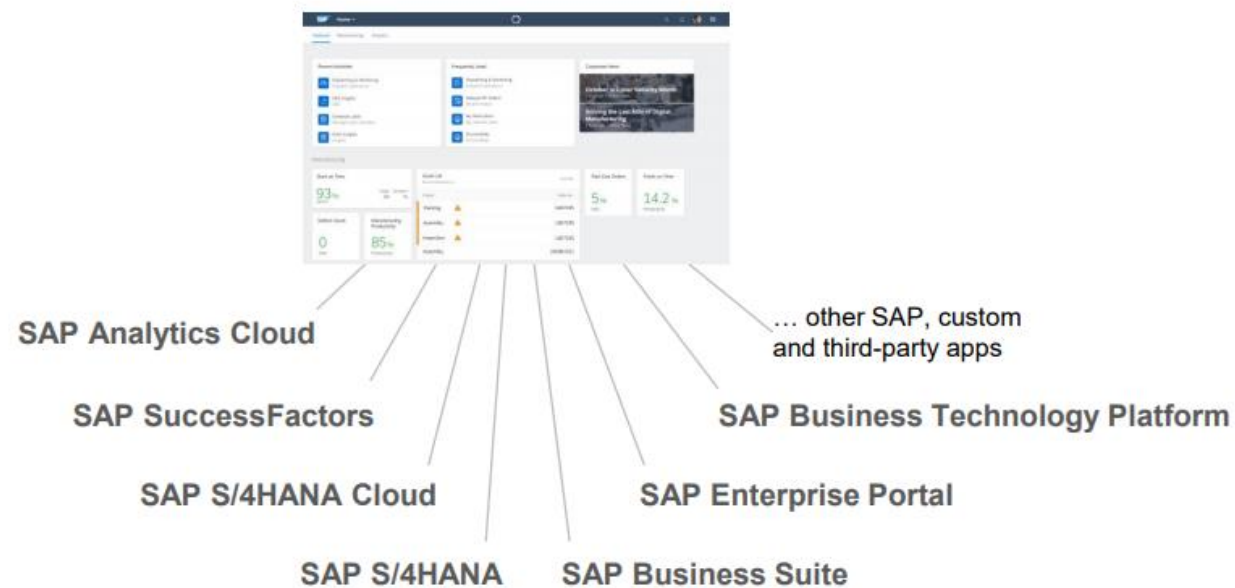


Vision

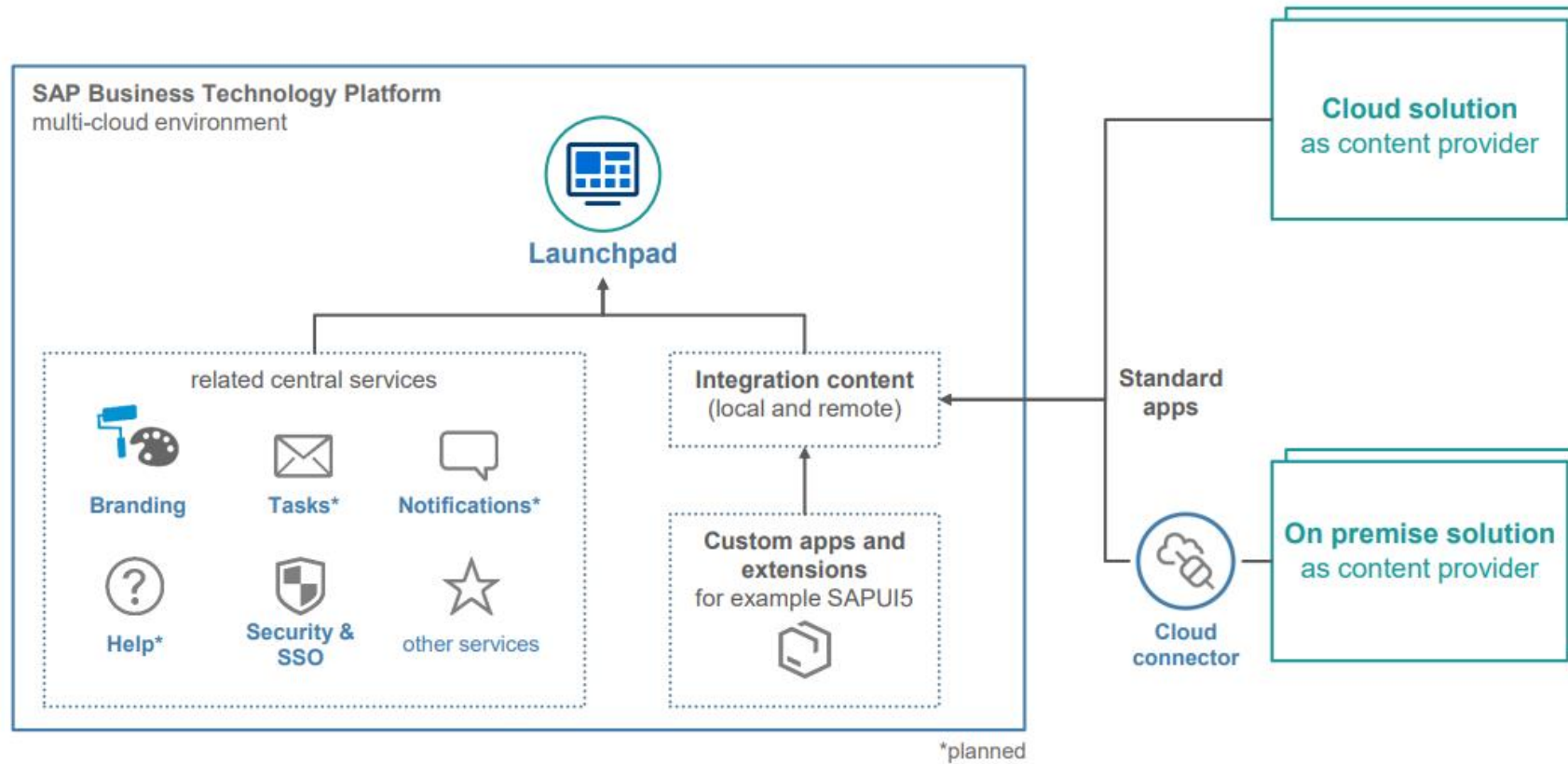
SAP Launchpad Service



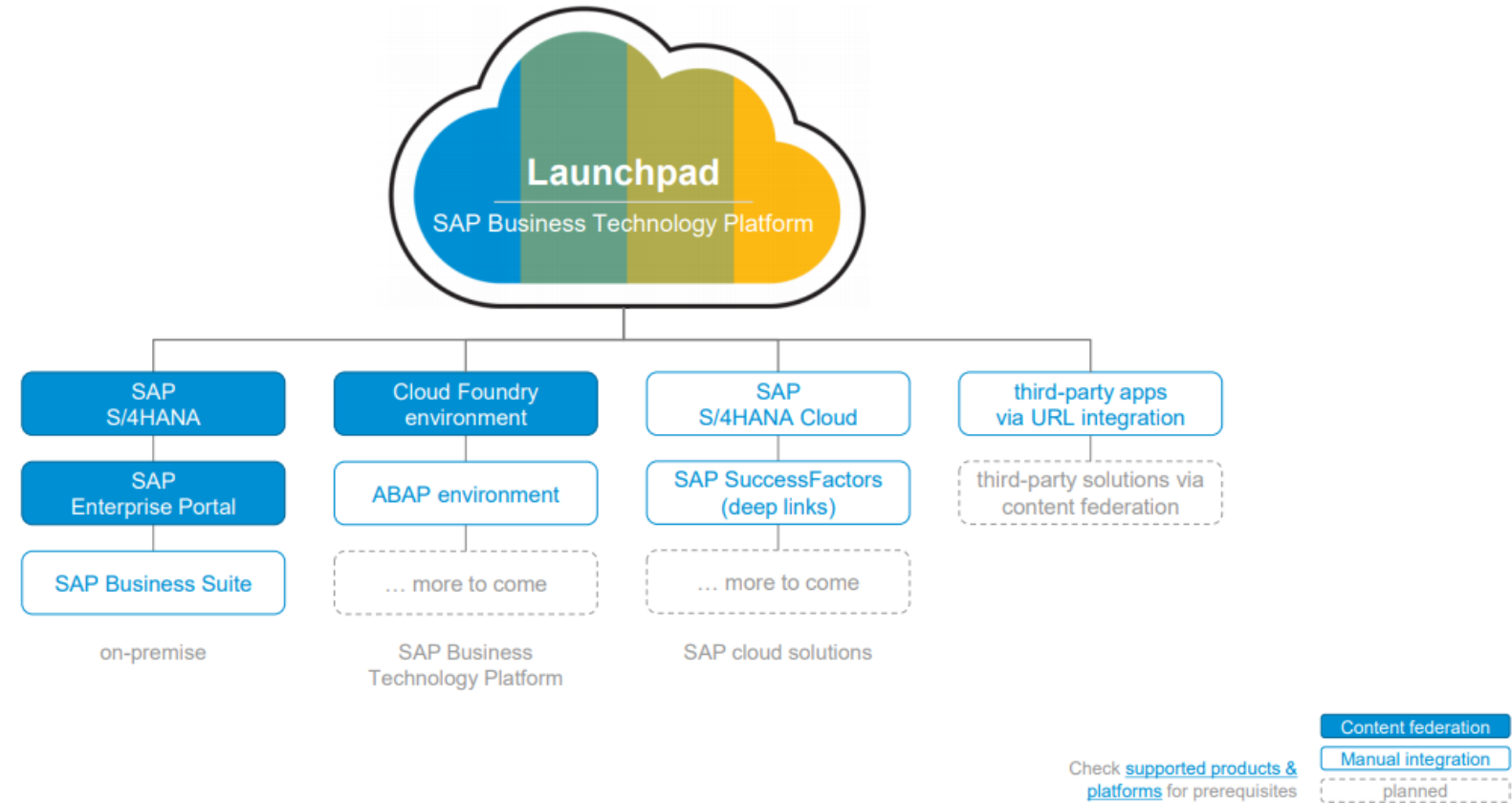
Increase user productivity and efficiency by providing a central and intuitive point of access to applications and services that users need to get their jobs done. Enable administrators to smoothly integrate content from SAP and third-party solutions (cloud and on premise) in a unified way.



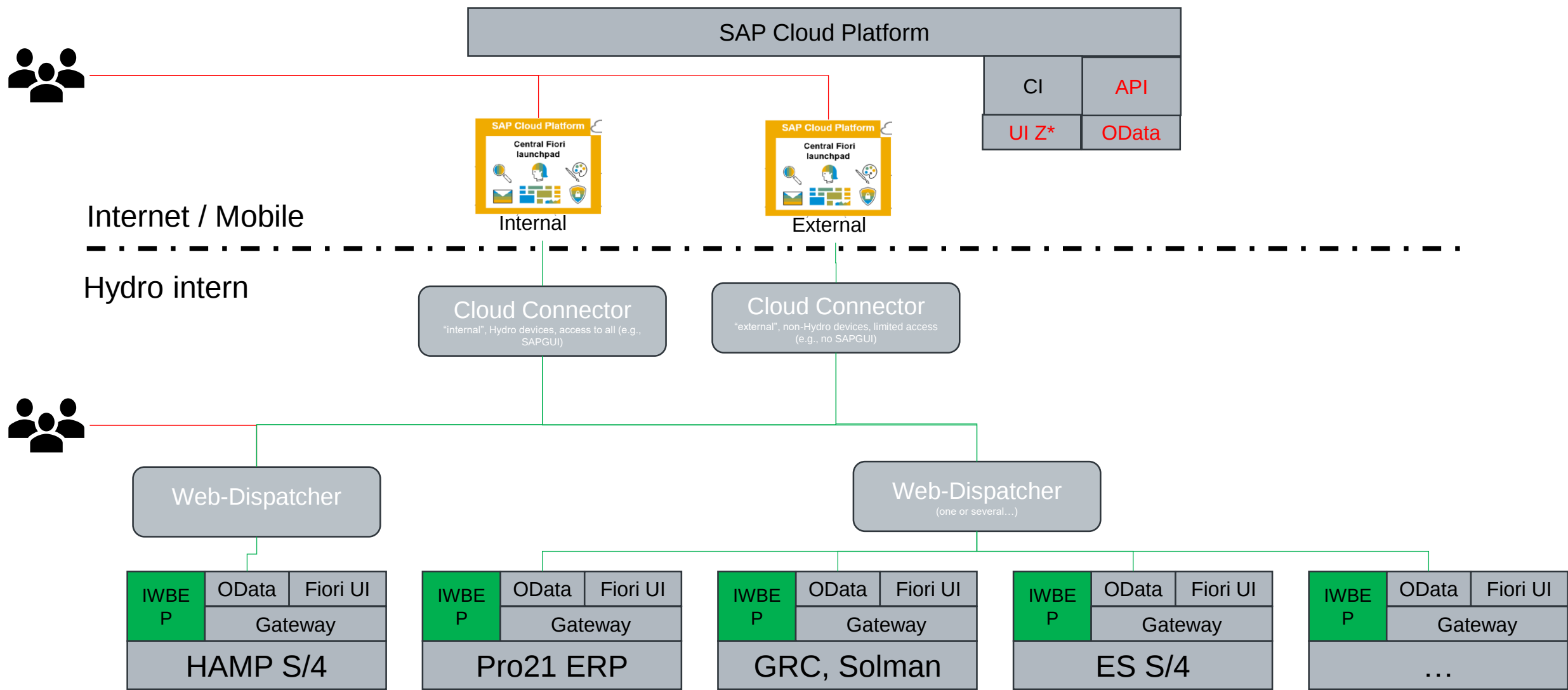
High-level Architecture



Integration Options

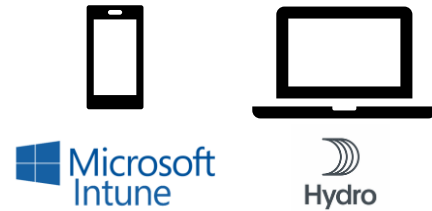


Launchpad Service Landscape



"Internal" vs "External" Launchpad

Internal – Device KNOW



Hydro AD + SAP User
SSO



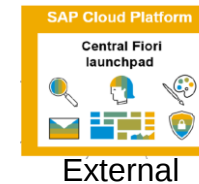
Fiori
WDA
SAPGUI (html)

External – Device UNKNOWN



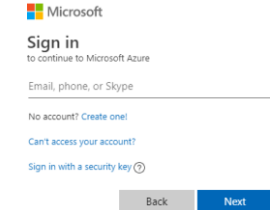
Private devices not enrolled in Intune/AD
3rd party devices (external consultants)

Hydro AD + SAP User
MFA + AD external group



Fiori
(WDA)
-No access to SAPGUI

SAPGUI is all or nothing, no way to granulate access as for Fiori & WDA



Cloud Launchpad

Feature Roadmap



Q1 2021	Q2/3 2021	TBD
• Simple URL • Search integration (ESH) • Notification integration	• S/4 content federation • Transport/Change management	• Smart Business Tiles • SAC content federation • SF content federation • Shared inbox

Going “Truly” Mobile

<https://youtu.be/KzImeenBYDE>

The best is yet to come,
and won't that be fine? You
think you've seen the sun,
but you ain't seen it shine.

Frank Sinatra



Hydro

Industries that matter