



Digital Integration Hub: Building Agile Data Grids and Microservices

LT116

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Speakers

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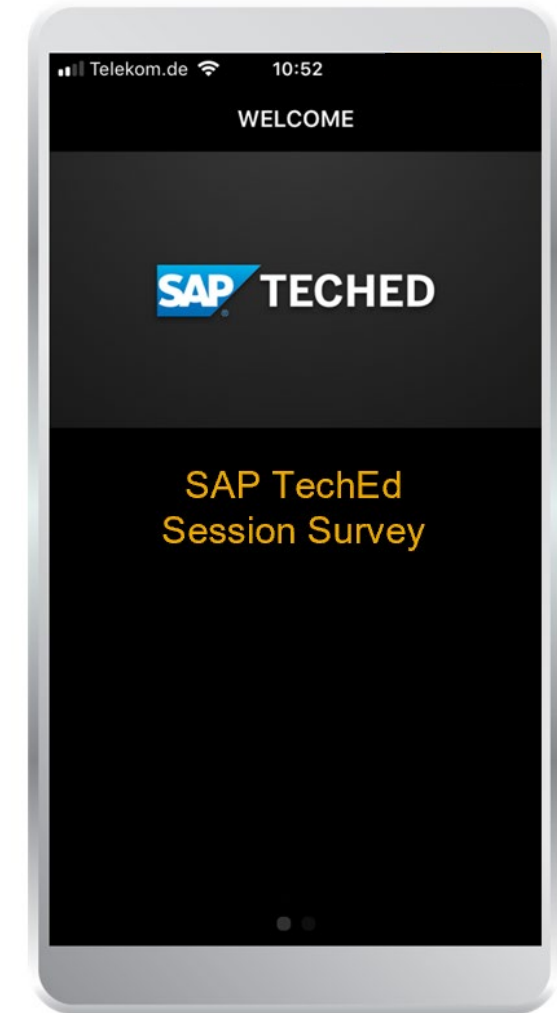
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Agenda

API-based Integration Architecture and its challenges

Introducing Digital Integration Hub

A reference solution blueprint



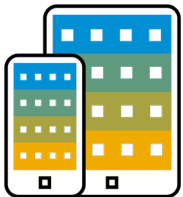
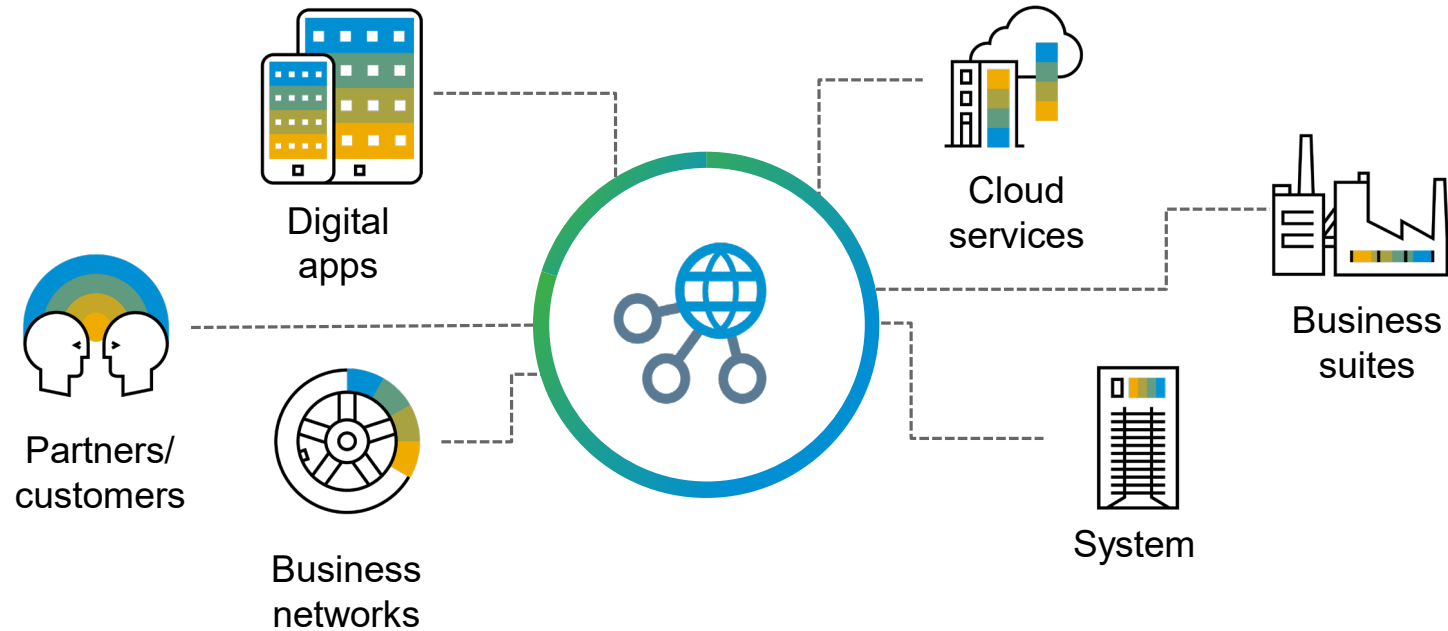
API-based integration architecture and its challenges



“Application programming interfaces (APIs) are the ubiquitous and mainstream enablers for digital modernization.”

Source: Gartner Research, 2018

APIs, the digital building block



Powers apps and digital interactions

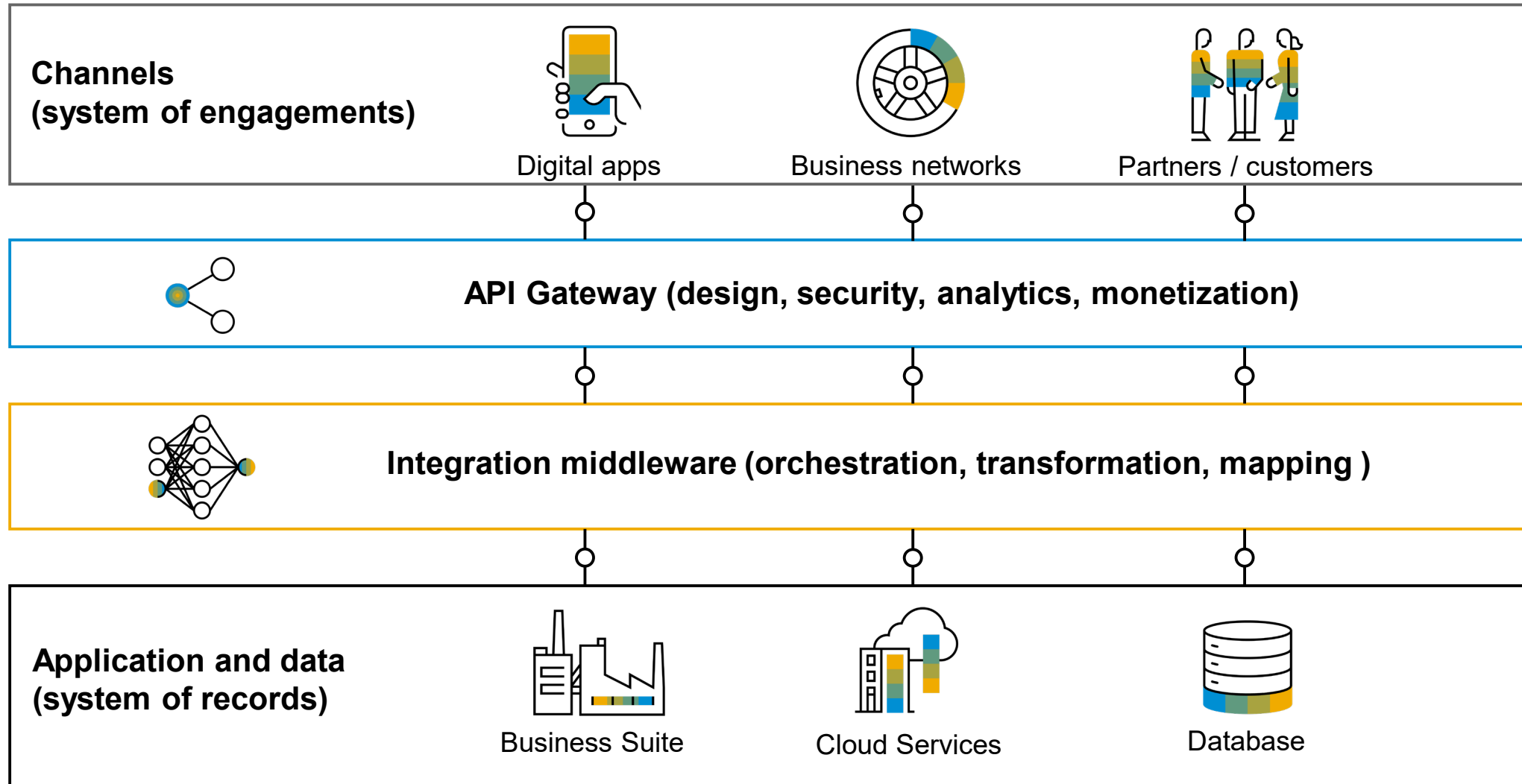


Foster collaboration and co-innovation between partners, developers for omni channel access, business collaboration



Insights & analytics on the APIs traffic, usage, error reporting and monitoring

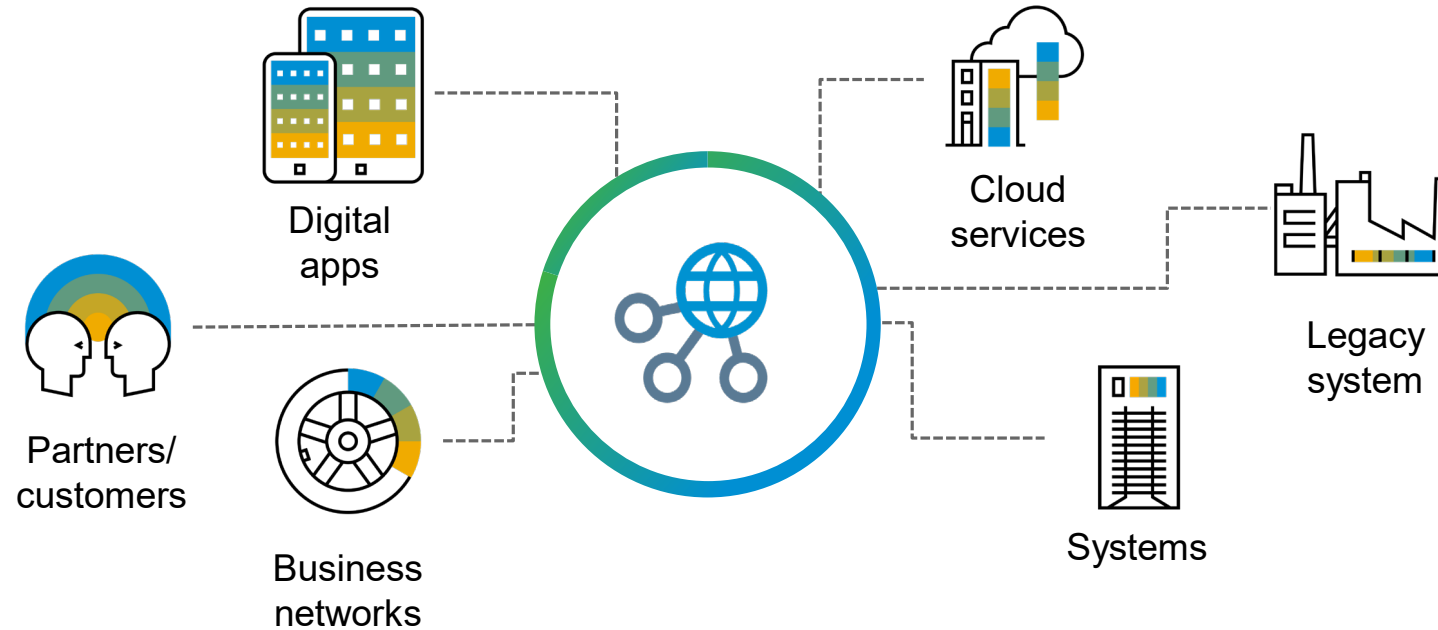
An API-based integration architecture



“API-based fast access to data dispersed across multiple sources is costly and needs notable integration work.”

Source: Gartner Research, 2018

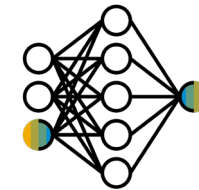
Challenges with API based integration architecture



Large enterprise applications are difficult and costly to scale to handle the massive API calls.



Difficult to leverage cloud-native, high available APIs over legacy business systems.



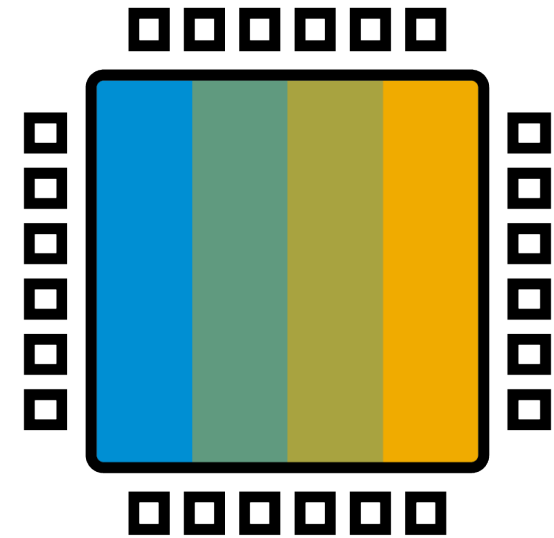
Fragmented data across multiple applications and data sources makes integration complex.

Introducing Digital Integration Hub



Introducing Digital Integration Hub

Digital integration is an emerging architecture for implementing large-scale, high-throughput APIs by inserting a high performance in-memory data store layer between the API service layer and the system of record.

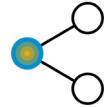


Key components of Digital Integration Hub



High-performance data store

- Stores relevant subset of the back-end data in cache.
- A single consolidated view of entities, the data for which is stored in one or multiple system of records.



Front-end API services

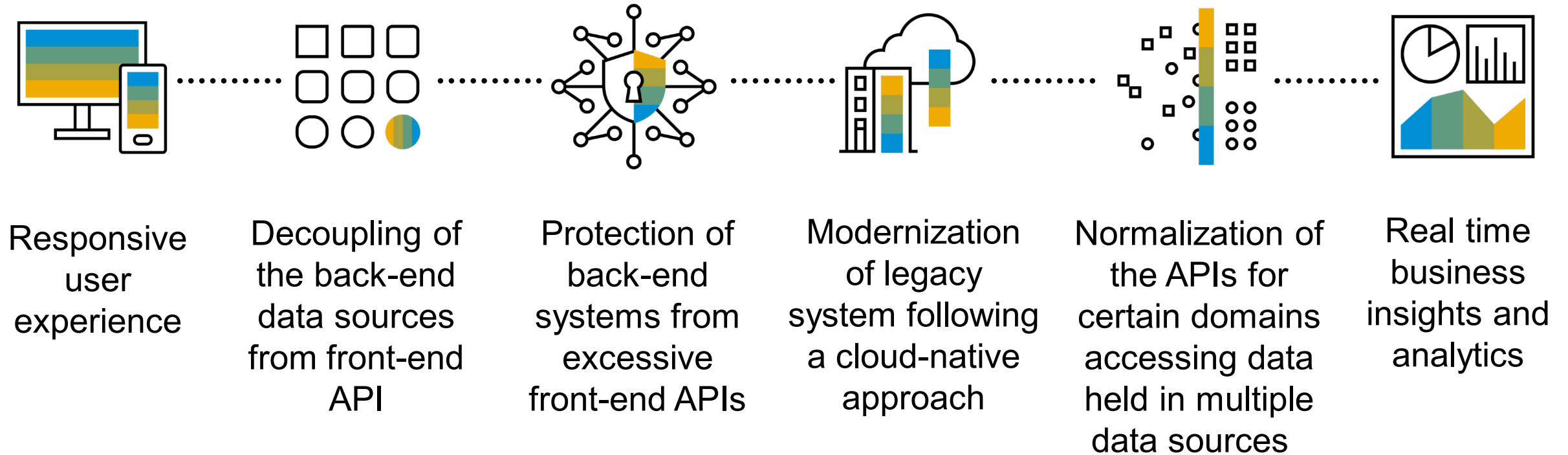
- Low-latency front-end API services connecting to high-performance cache for read queries.
- Updates calls can be performed directly on the back-end systems (command query responsibility segregation).



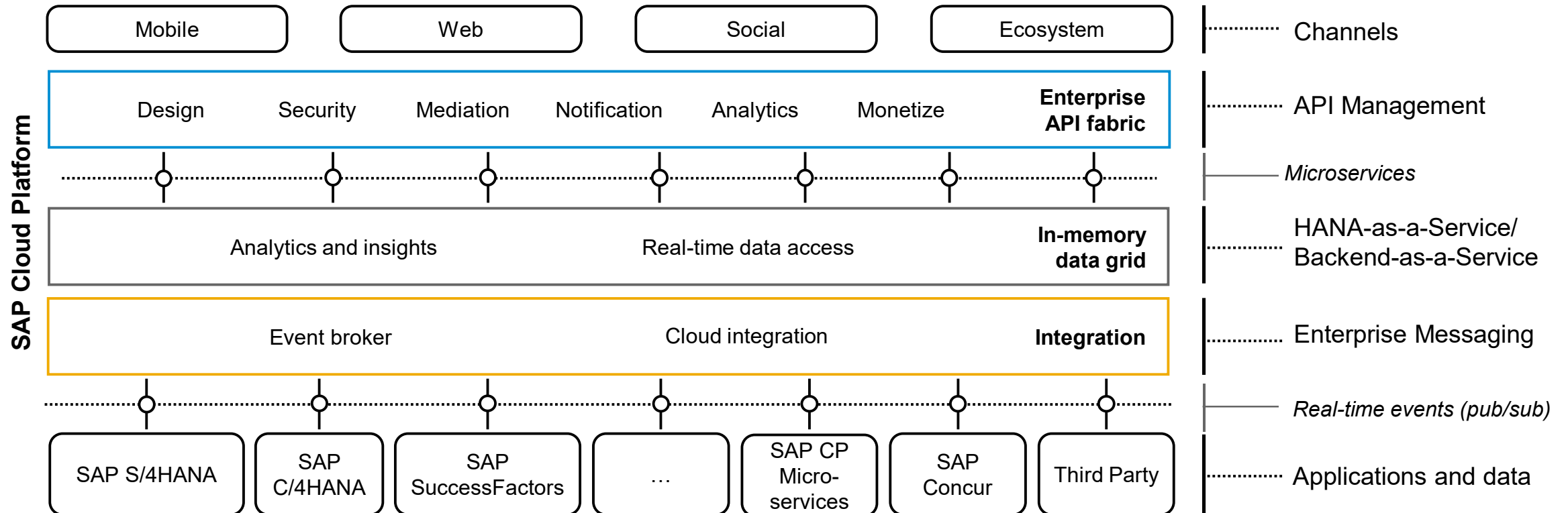
Integration layer

- Keeps the system of records sources and high-performance data store in sync.
- Event driven integration

Key benefits of Digital Integration Hub



Application landscape decoupling with SAP Cloud Platform Integration Suite



- **Responsive multi-channel access layer:** Enabling new business models w/o risk of scaling
- **“Defending” the application layer:** From potentially excessive workloads
- **24/7 support:** Always-on access to APIs even if back-end systems must be taken offline

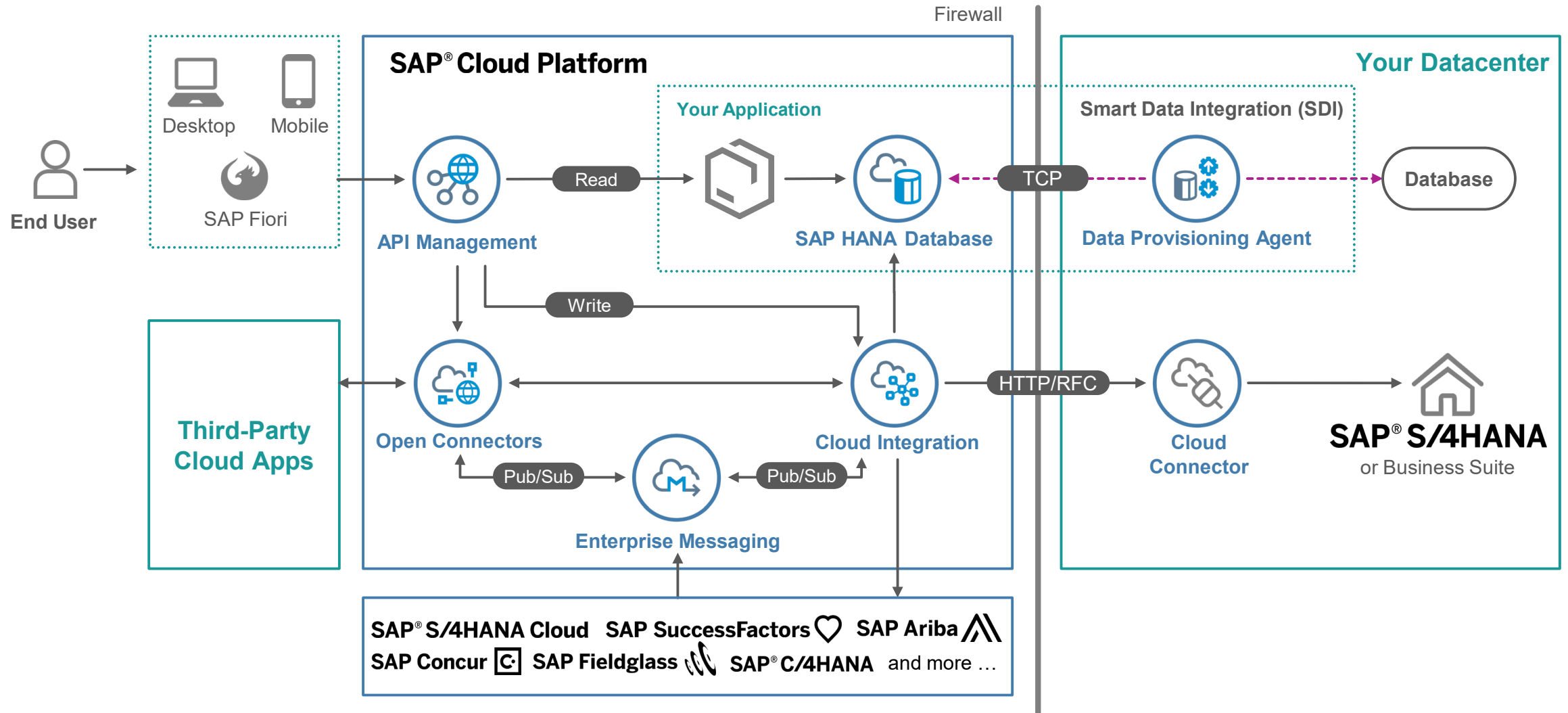


Independence from business applications, both technically and organizationally

Reference Solution Blueprint



SAP Cloud Platform Integration Suite solution blueprint example



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Public SAP Web sites

- SAP Community: <https://www.sap.com/community/topics/cloud-integration.html>
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