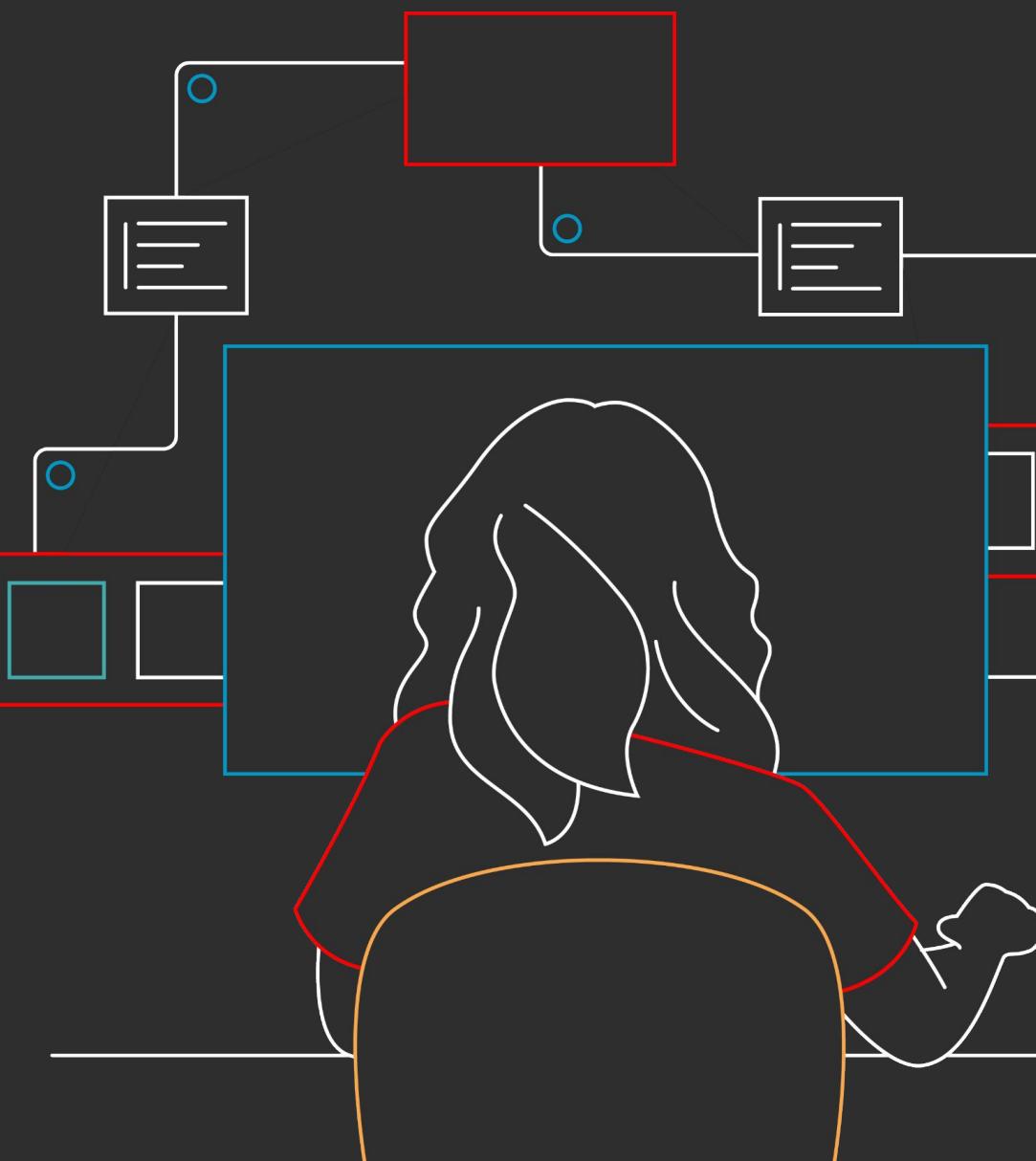


# Introducing **SAP Architecture**

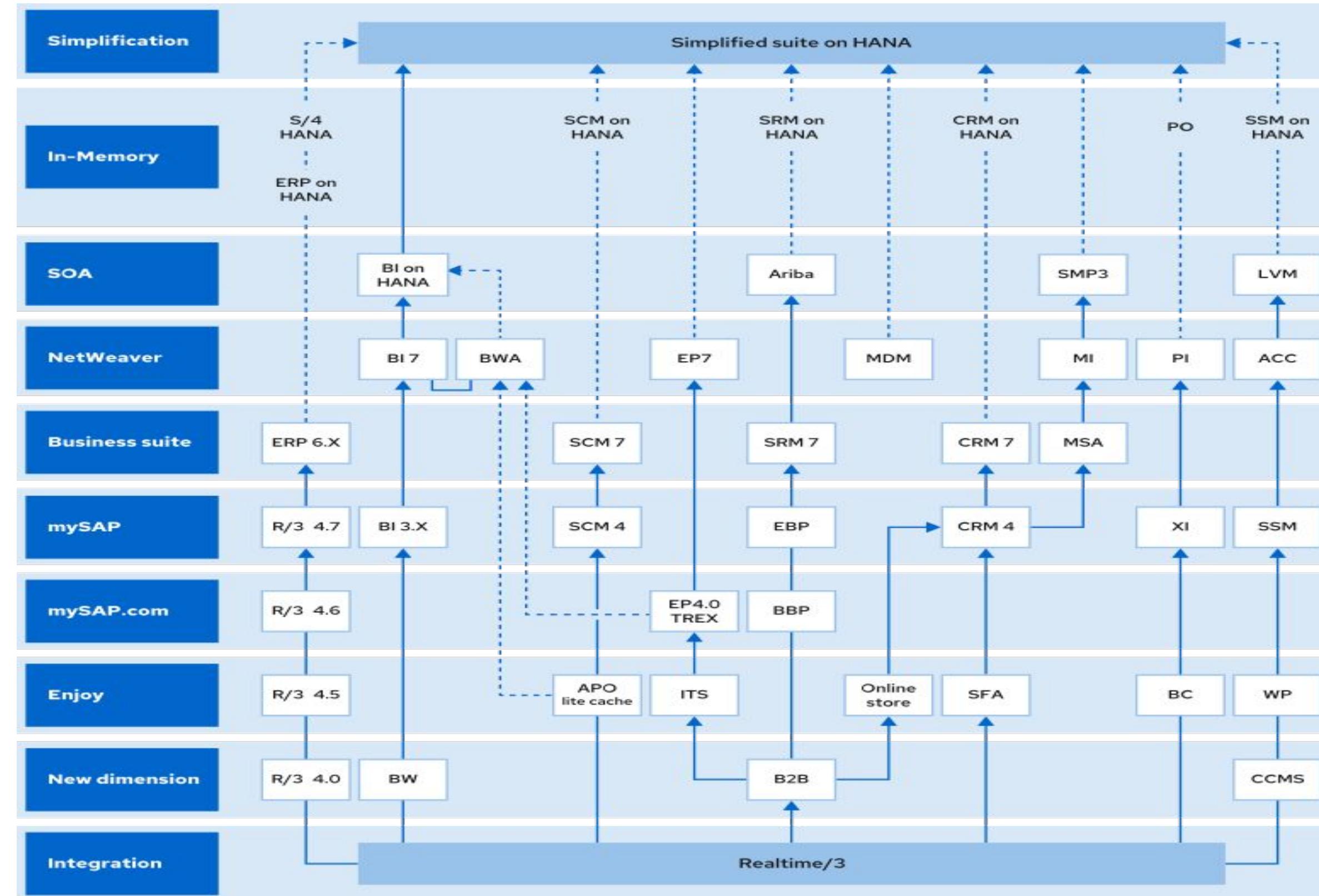
Describing the SAP Portfolio



## SAP History

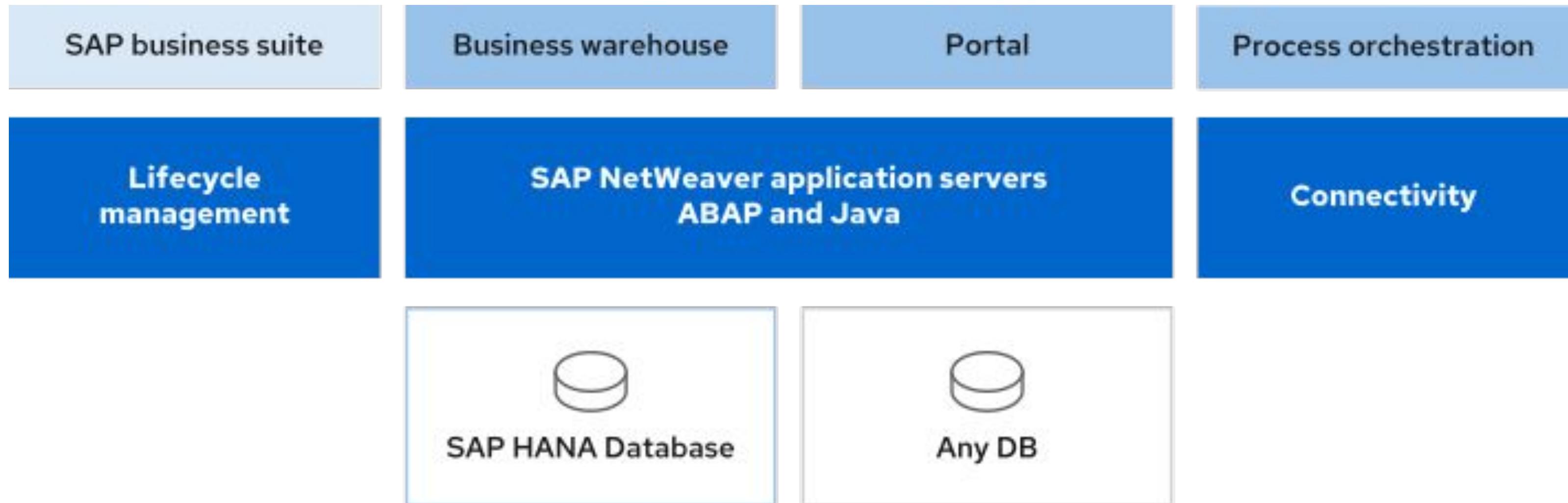
- Founded in 1972 as a private partnership
- largest software manufacturer in Europe today
- switch from individual designed programs on punchhole cards to generic standard software with online dialog via screen and keyboard
- That's why it is called real-time system
- 1973 R/1 financial accounting software defined OLTP data processing pattern and introduced a database for storing data
- became leading provider of commercial standard software on IBM and Siemens Mainframes

# SAP Software History



inspired by Michael Missbach

# Generic SAP Architecture



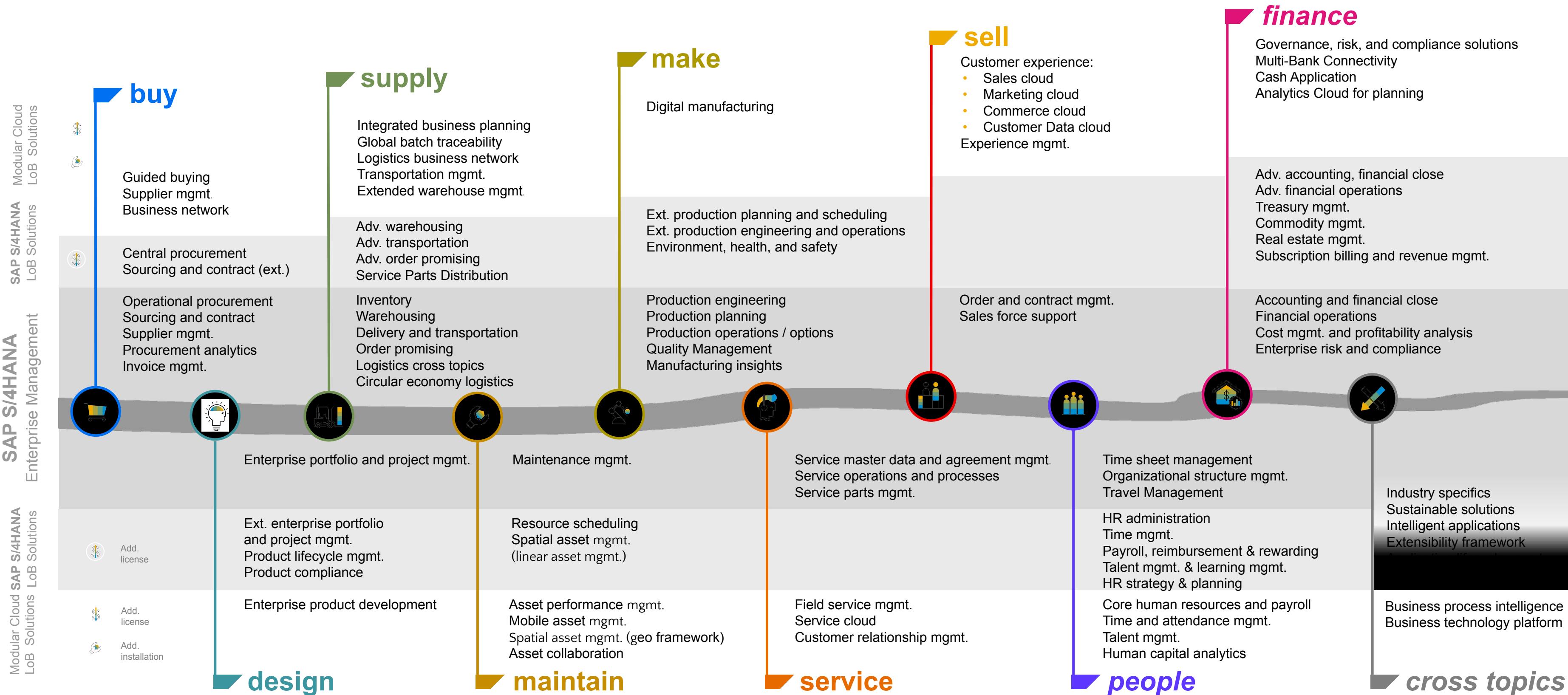
# SAP Enterprise Resource Planning - Business Scope

## Overview

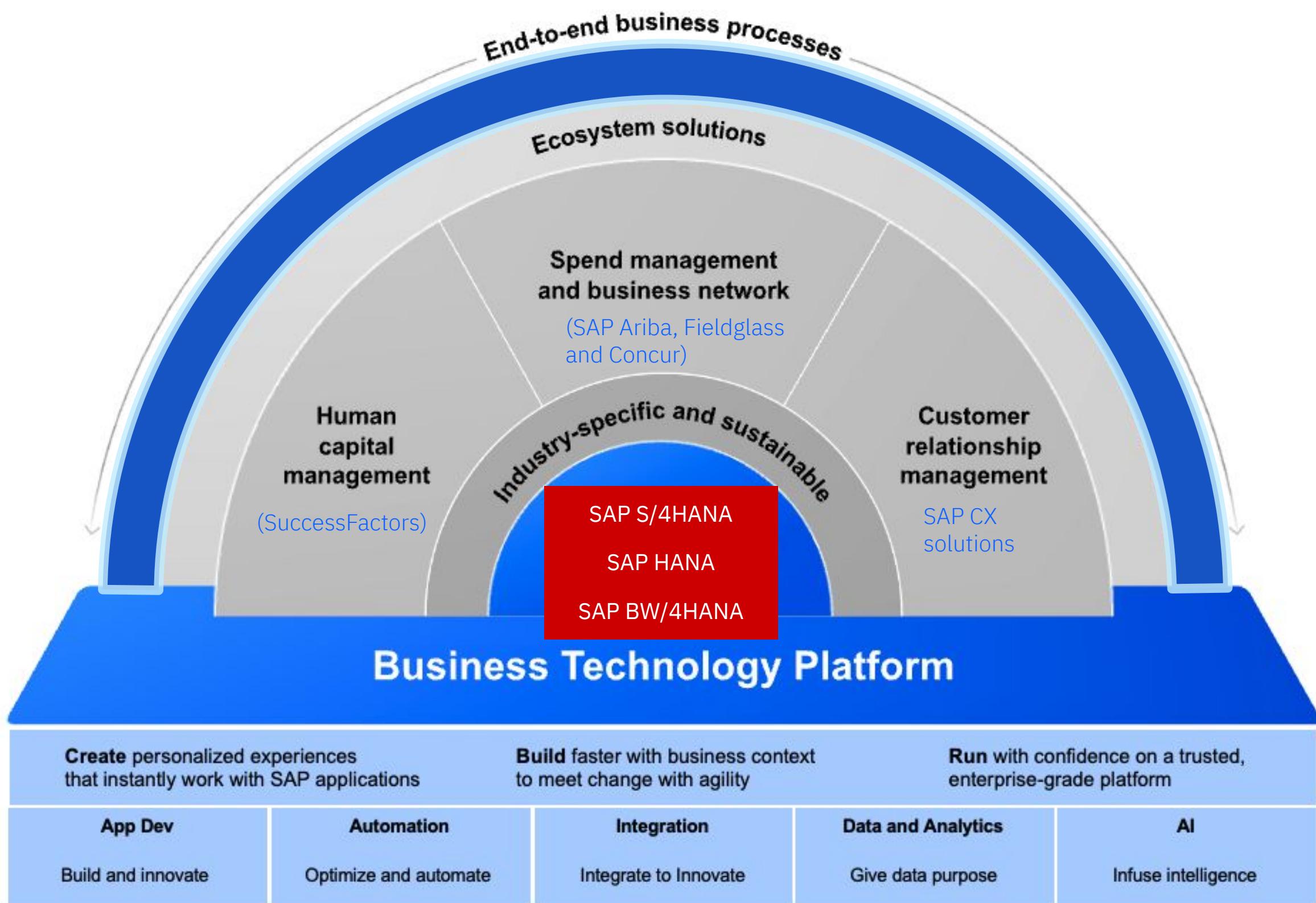


ERP is not just a software – it's a complete business solution, integrated across the entire value chain, which creates an information infrastructure for efficient planning and effective execution.

# SAP S/4HANA Modular Application Portfolio (MAP)



# SAP in a nutshell – Portfolio of all SAP software\*



ERP

LoB'  
S

BTP

\*SAP S/4HANA runs on public and private cloud and on prem. LoB Products like SuccessFactors, Ariba, Concur and SAP CX are SaaS products on public cloud  
You can find all SAP Products here: <https://www.sap.com/products/a-z.html>

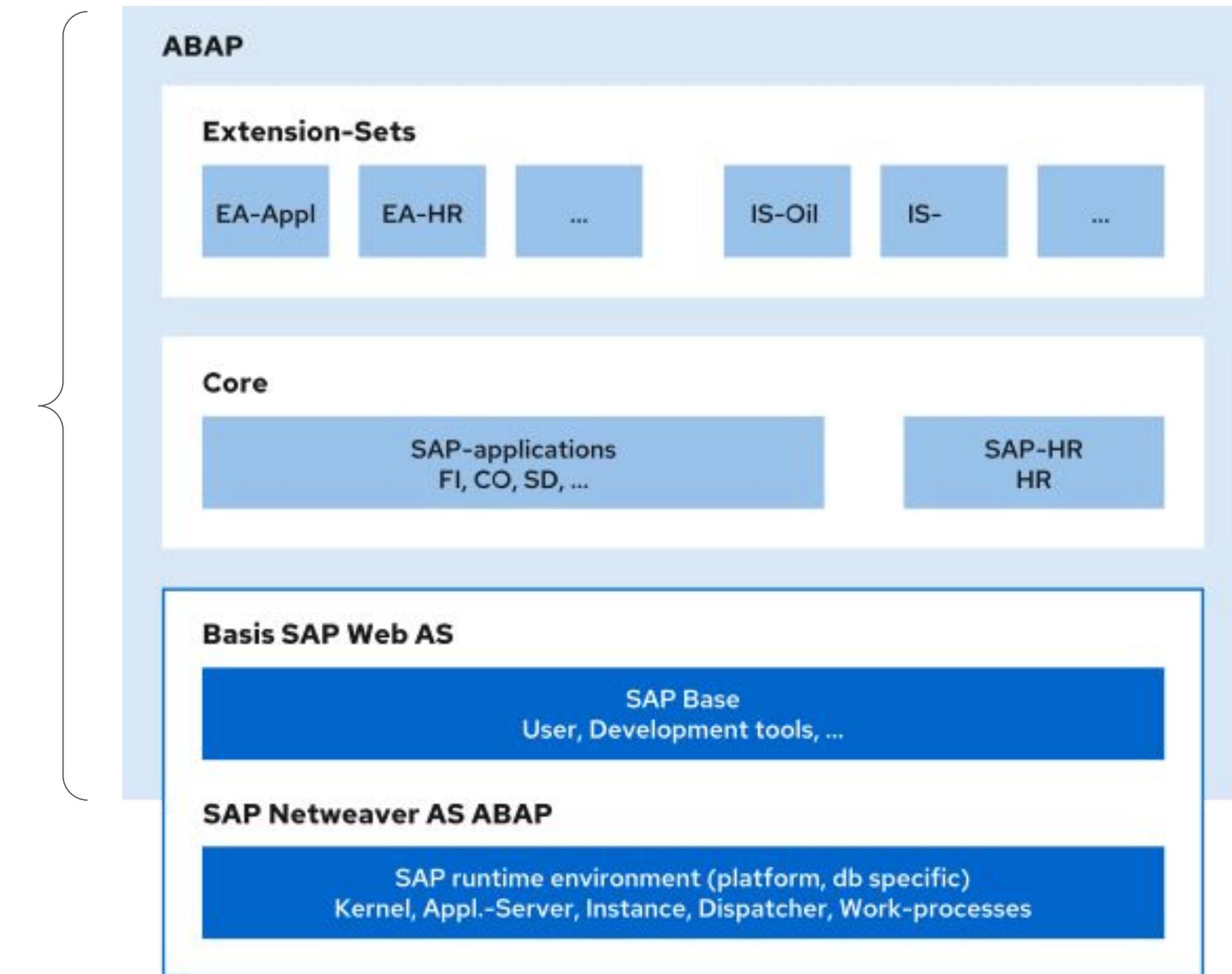
# ABAP Stack

## Example: ECC (R/3)

Complete application is written in ABAP code

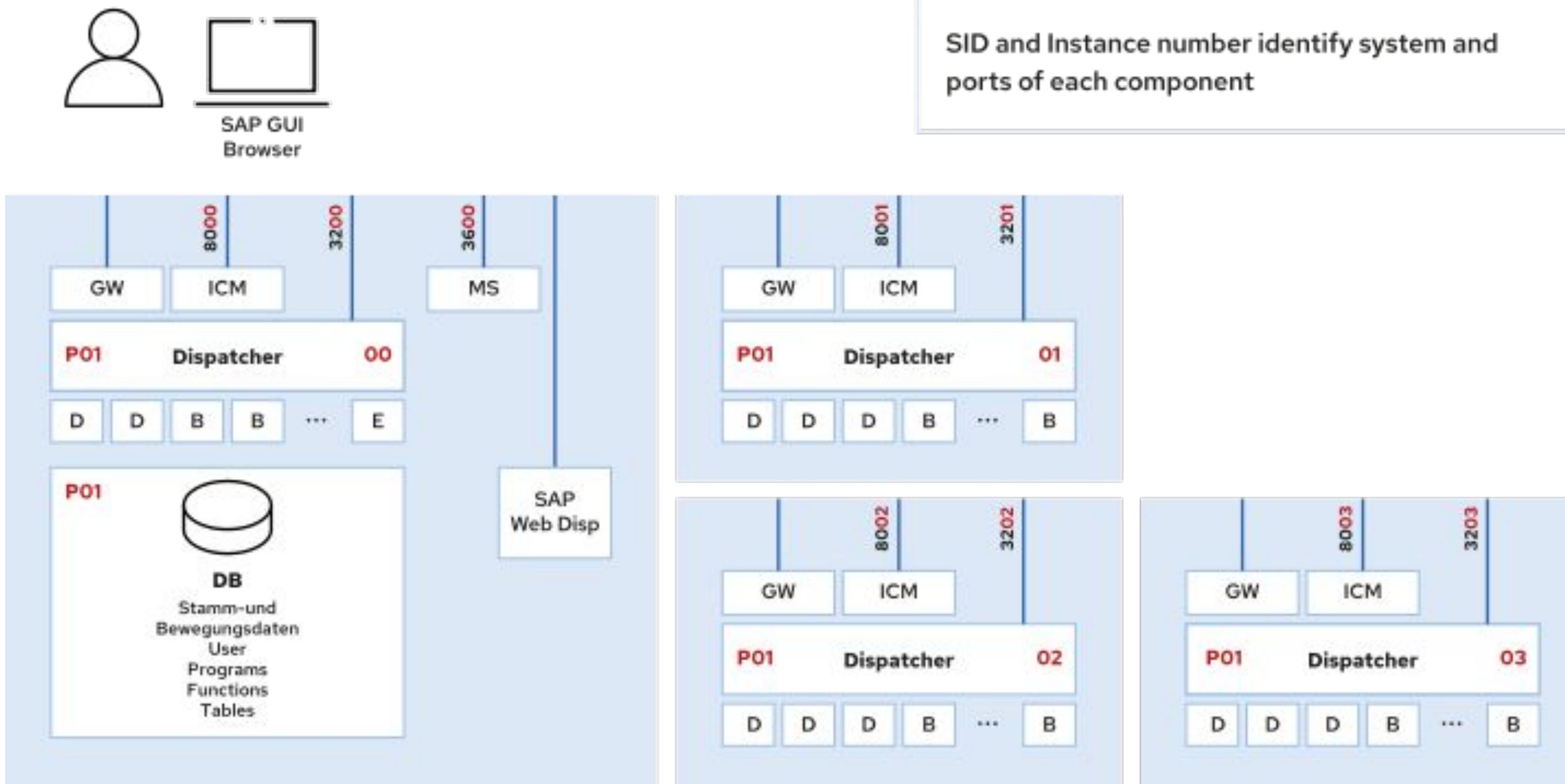
Successor S/4 HANA is a complete new application, but the runtime environment stays the same

used to abstract OS-Filesystem and platform independant language



# ABAP Solution Architecture

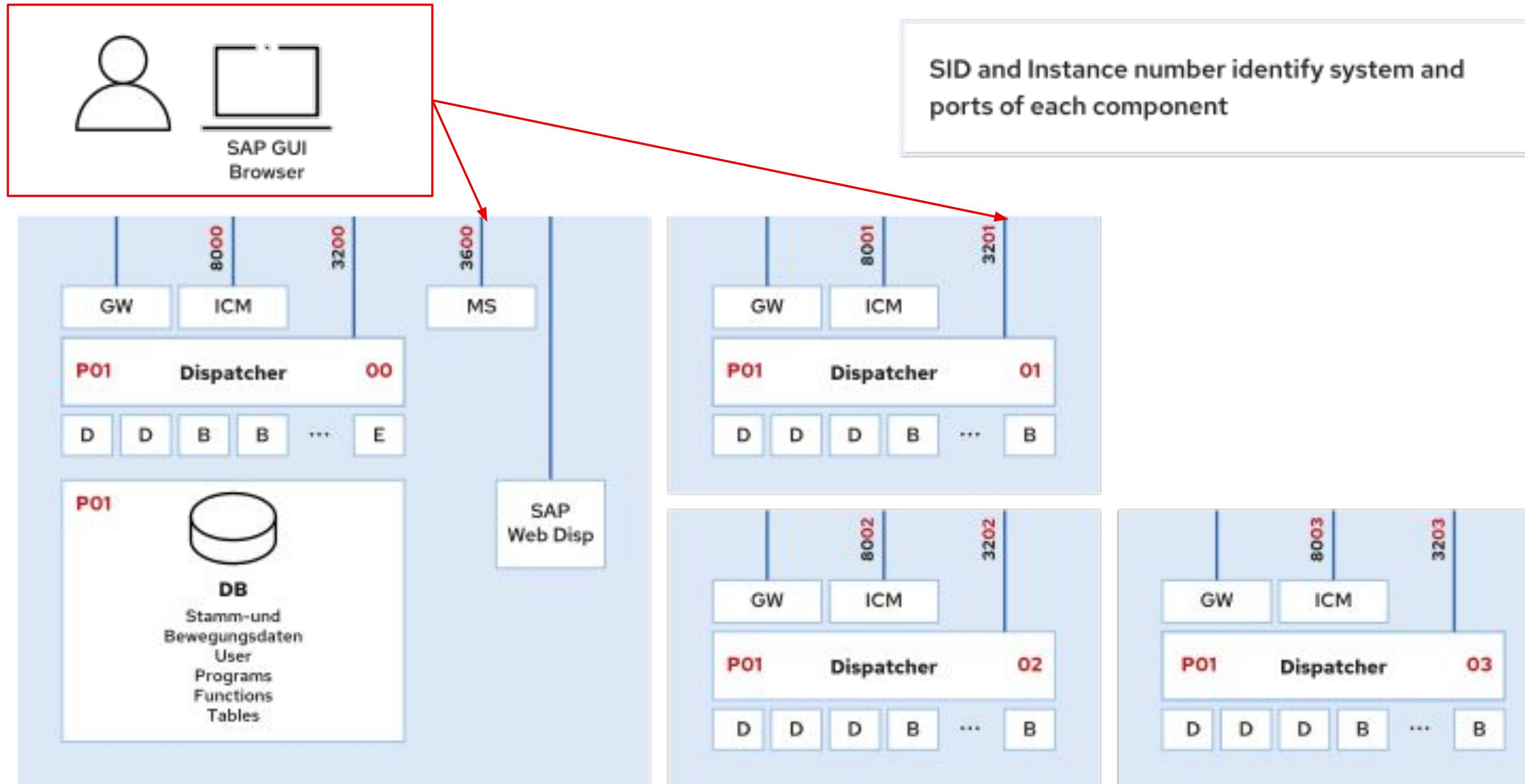
## Example: ECC



# ABAP Solution Architecture

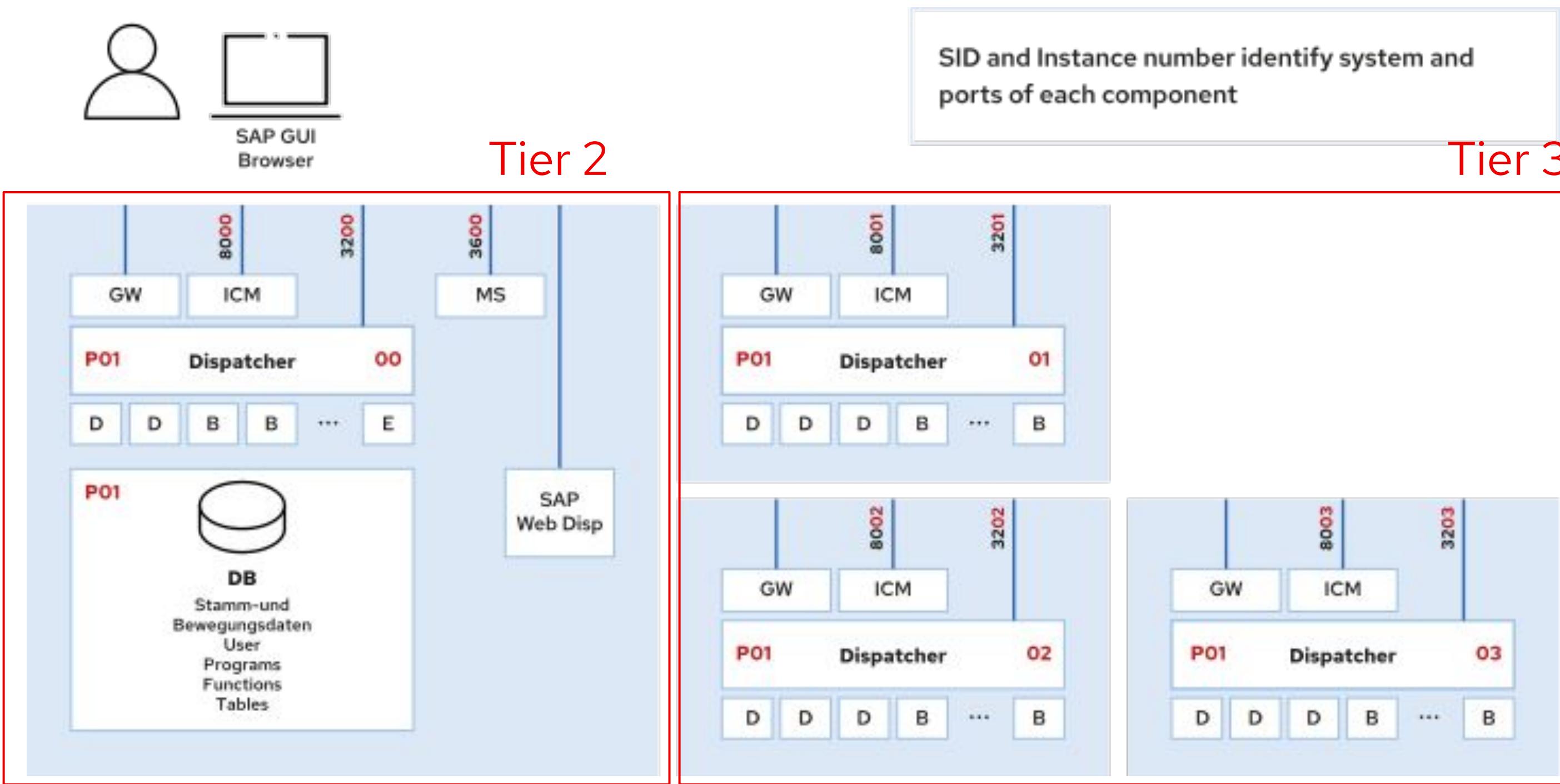
## Example: ECC

Tier 1



# ABAP Solution Architecture

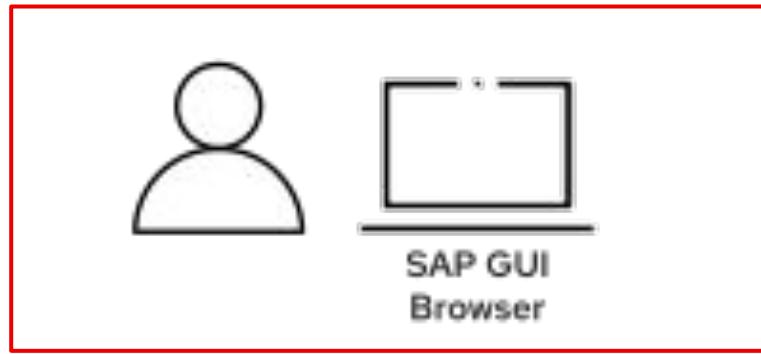
## Example: ECC



# ABAP Solution Architecture

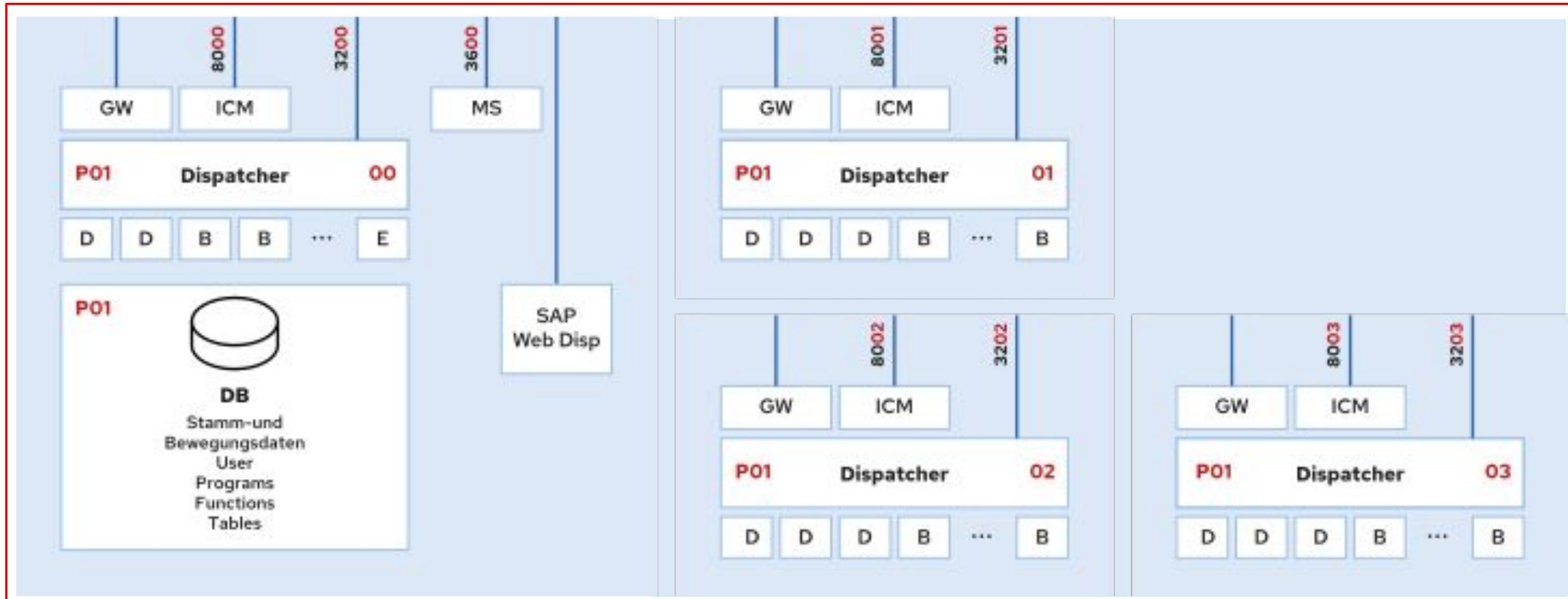
## Example: ECC

Tier 1

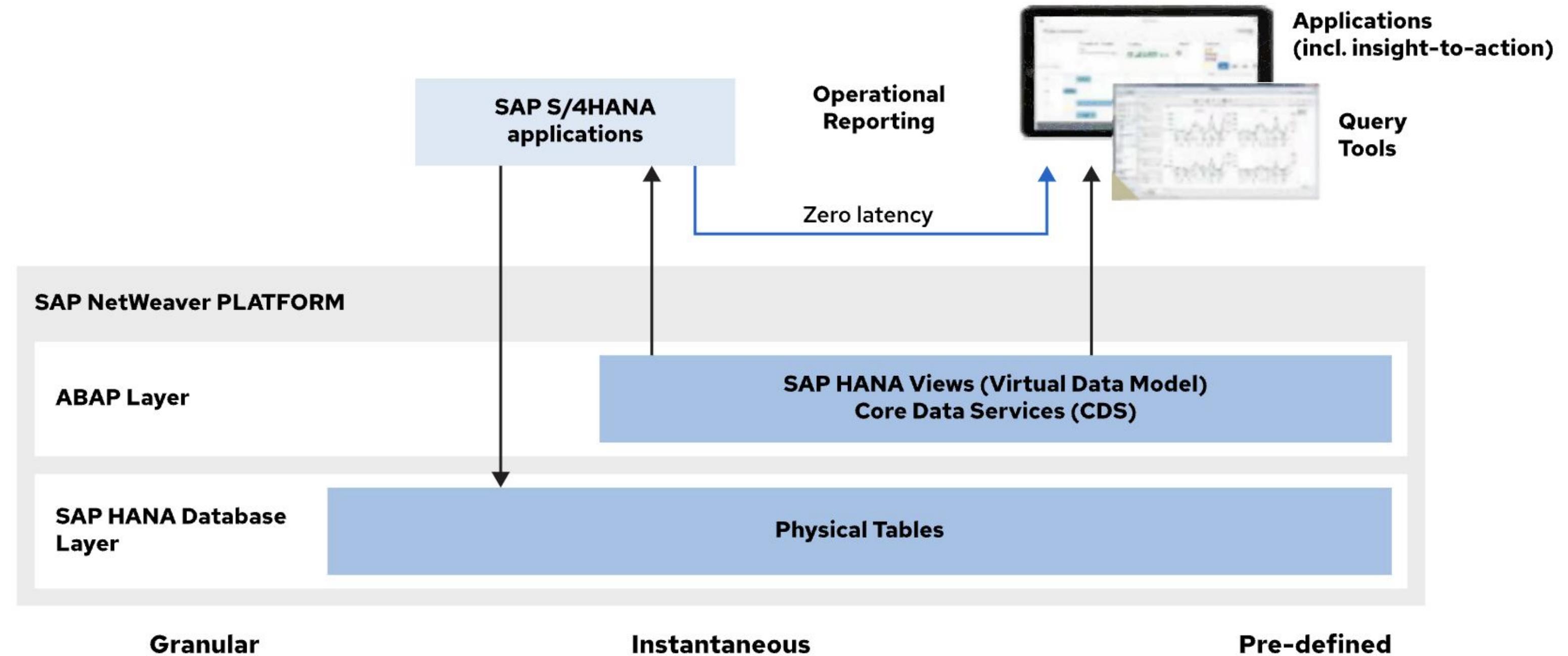


SID and Instance number identify system and ports of each component

Tier 2



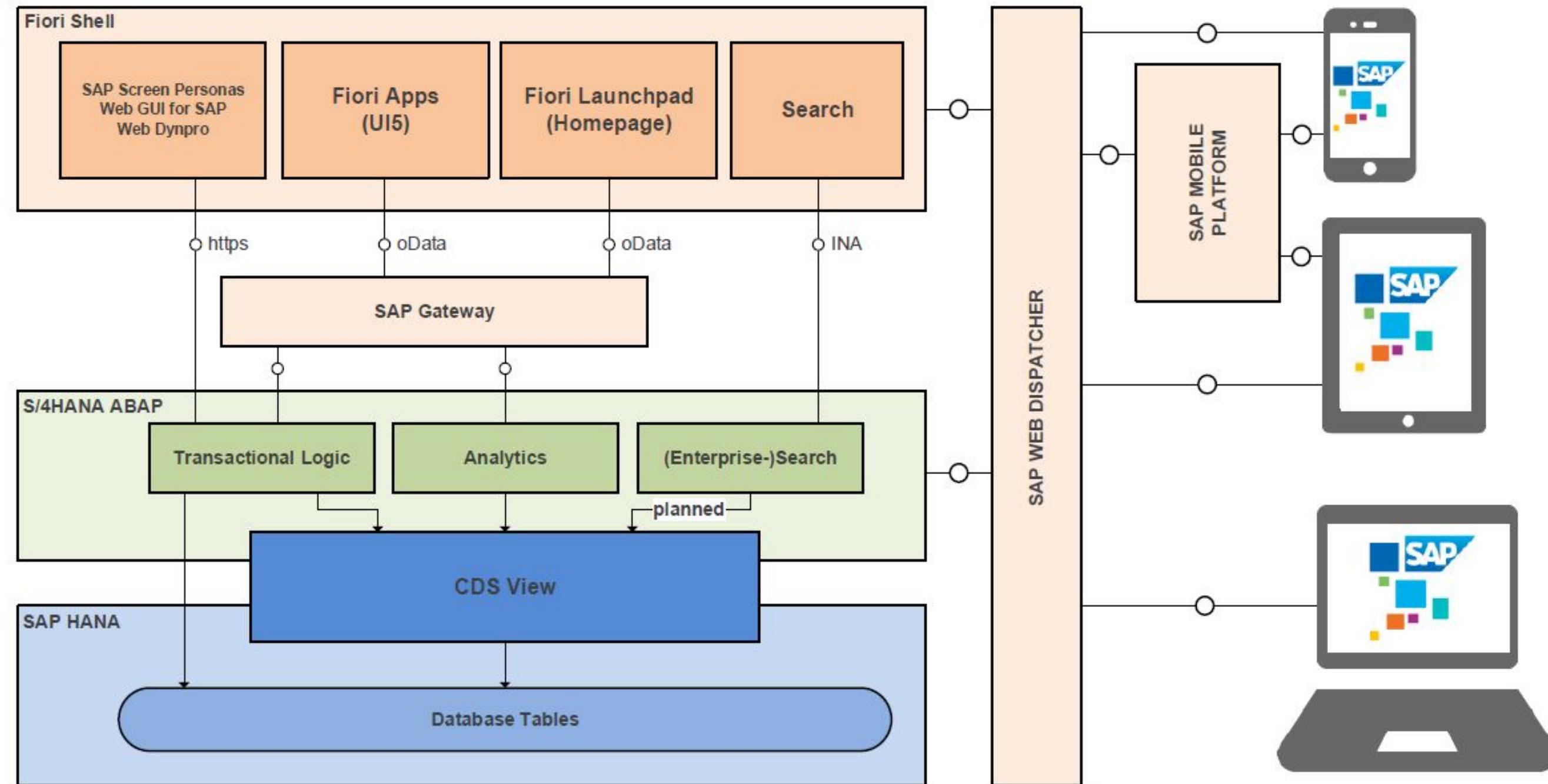
# SAP S/4 HANA and Netweaver



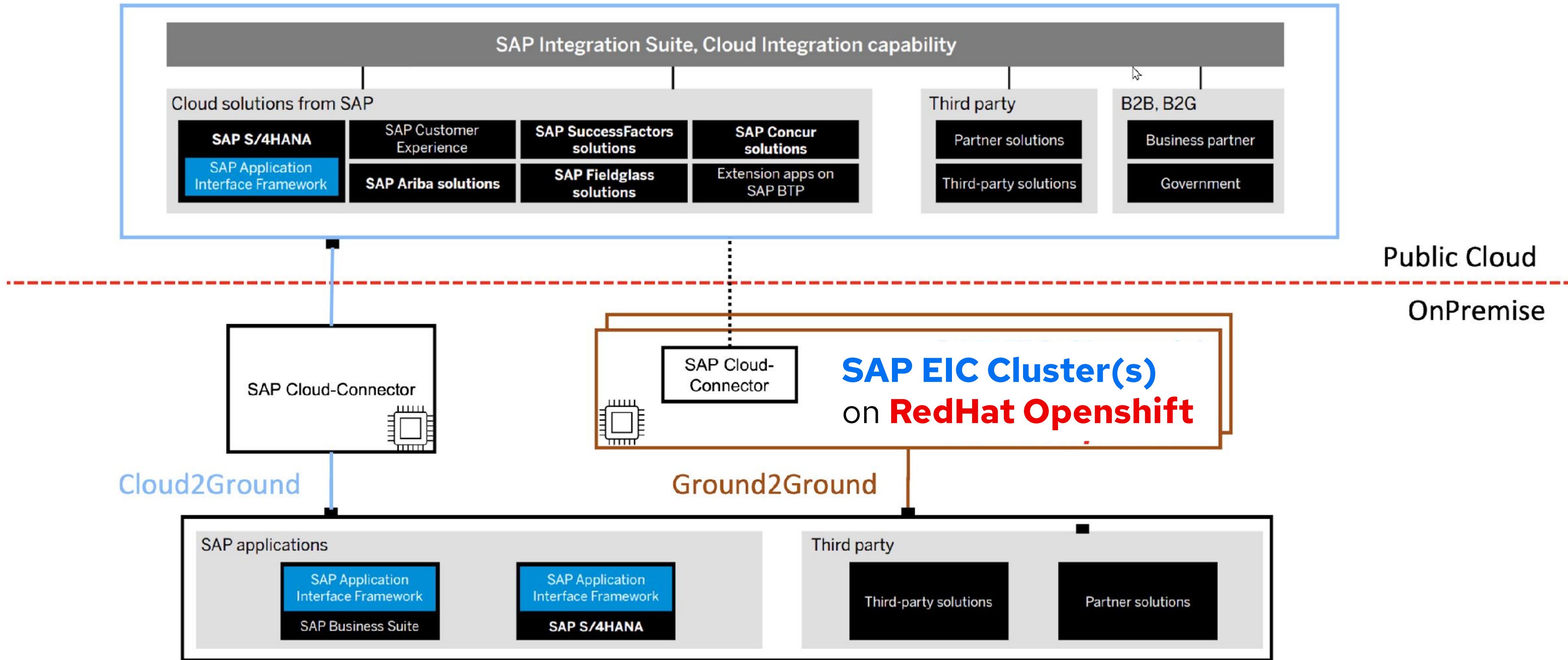
# High-level SAP S/4HANA Architecture

**SAP S/4HANA Architecture is more modern than the classical Business Suite architecture**

- Launchpad / Fiori  
SAPGUI still available for compatibility reasons OnPremise and in Private Cloud
- Application engines
  - Transactional Logic
  - Operational Reporting with Embedded Analytics
  - Enterprise Search
- Data structures  
Core Data Services (CDS) Views as an abstraction layer

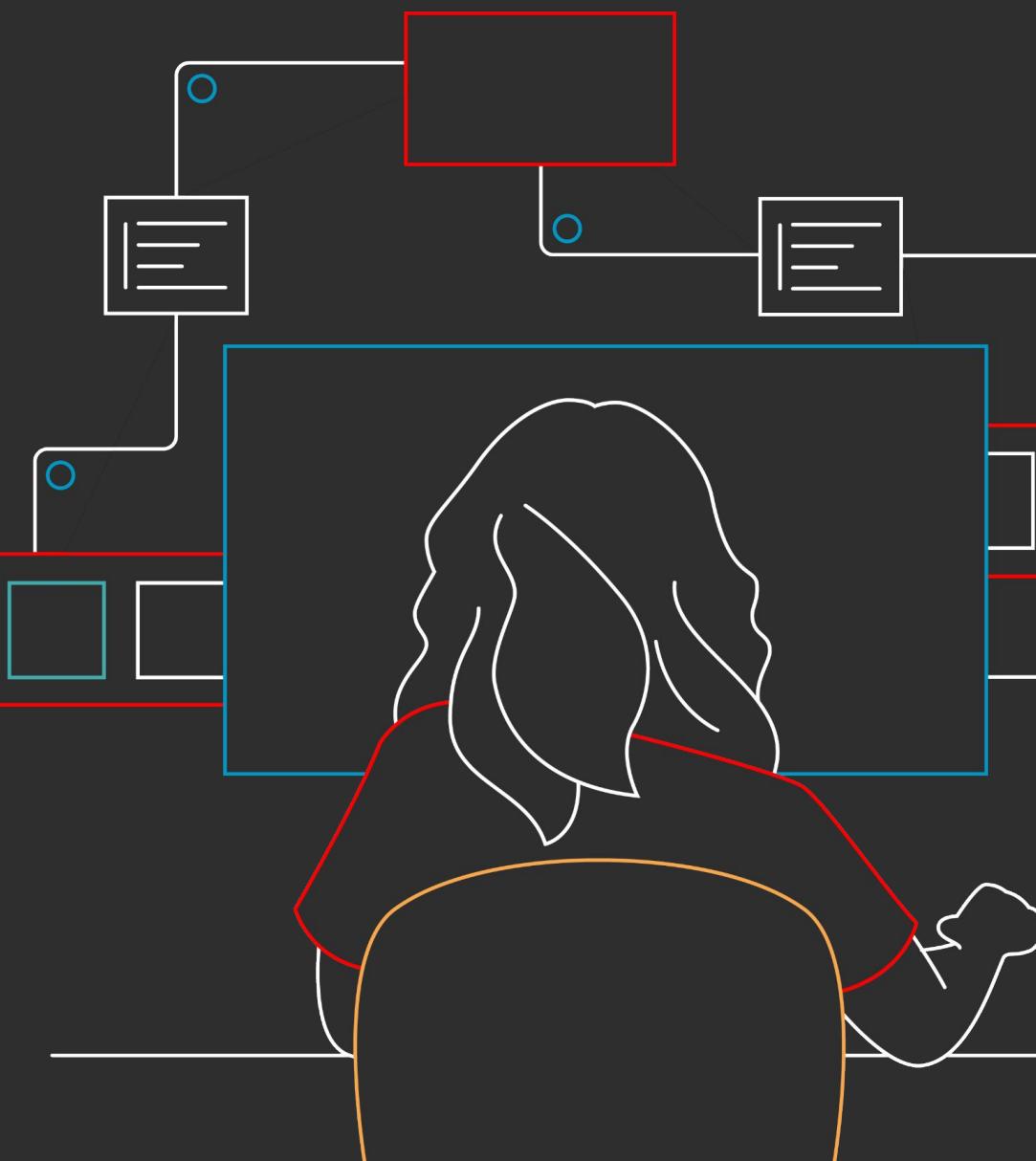


## Introducing SAP Architecture



# Introducing **SAP Architecture**

# Planning the Installation and Verifying Version Compatibility



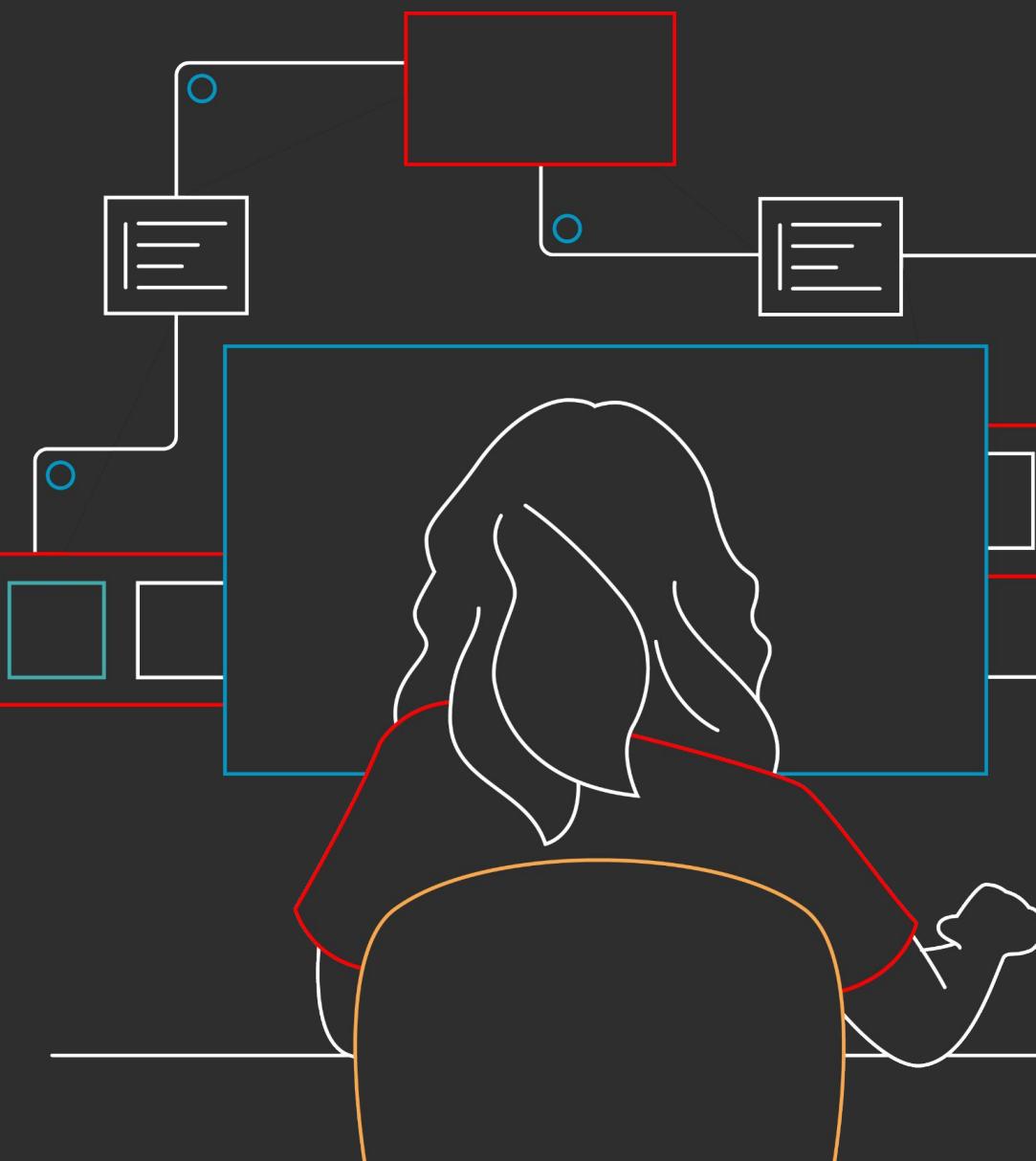
## SAP Support Matrix

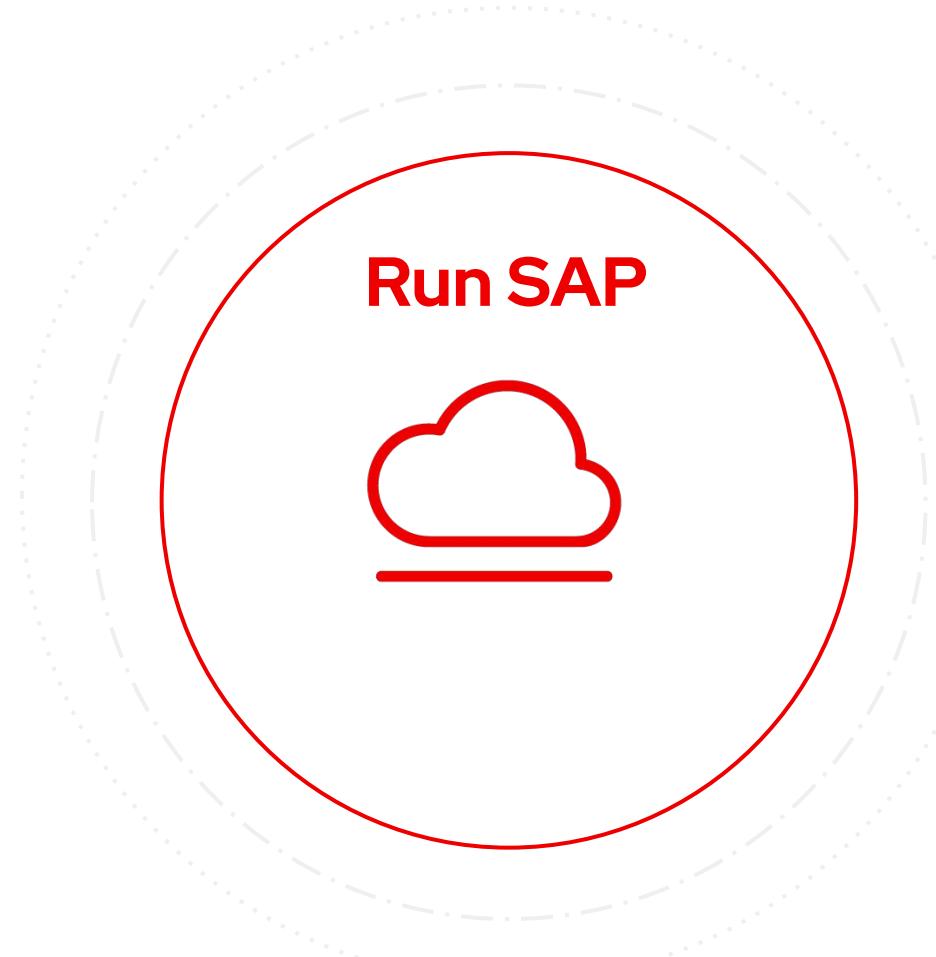
SAP Note [#2235581](#): SAP HANA: Supported Operating Systems

Quick Links on [Red Hat Customer Portal KB article #6966927](#)

# Explaining Red Hat Enterprise Linux for **SAP Solutions**

Outlining Red Hat Products for SAP





- Red Hat Enterprise Linux
- RHEL High-Availability Add-on
- Red Hat Satellite
- Red Hat Insights
- RHEL system roles for SAP
- SAP specific components
- Update Services for SAP solutions



**Red Hat**  
Enterprise Linux



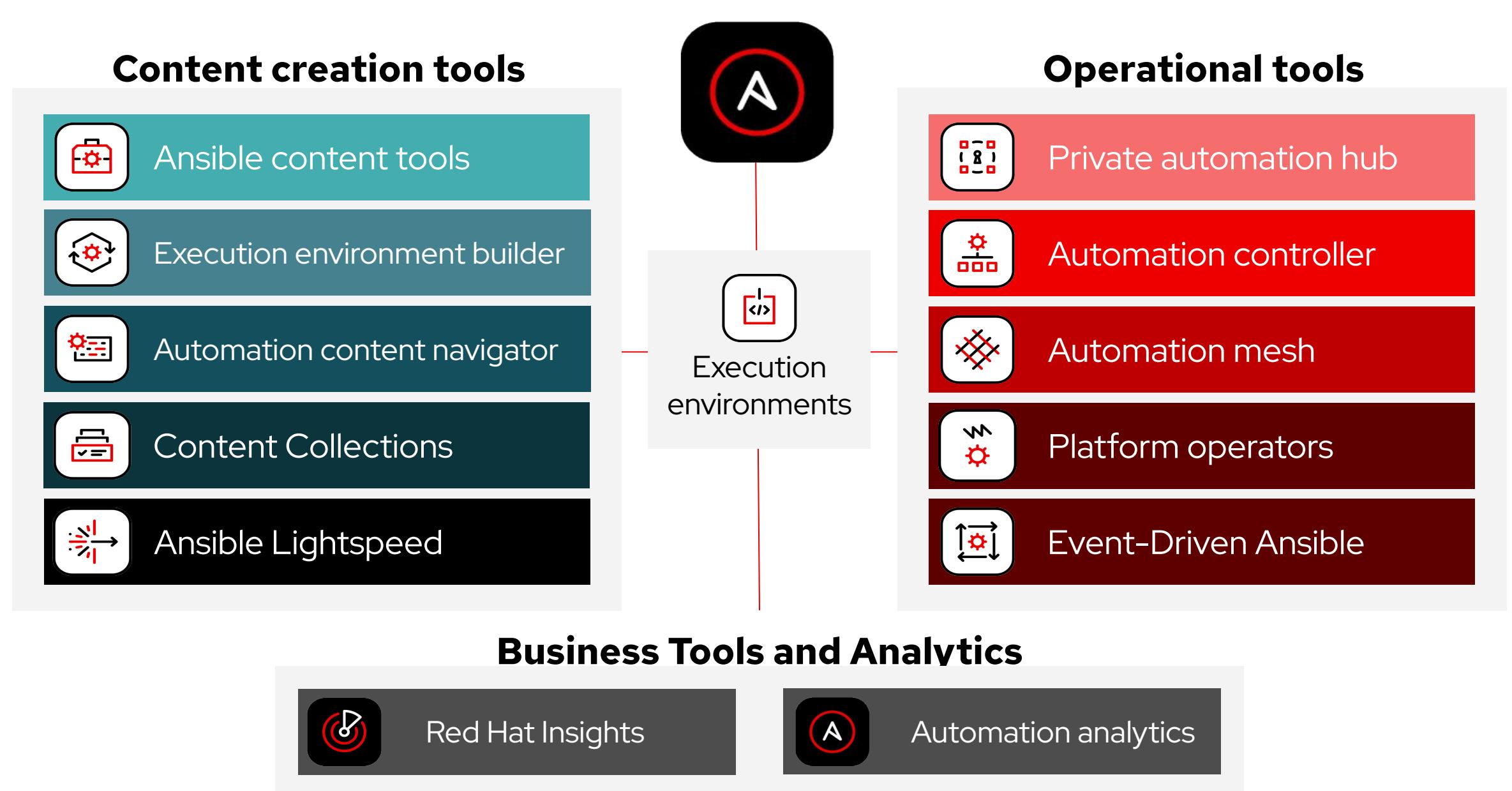
**Red Hat**  
Insights

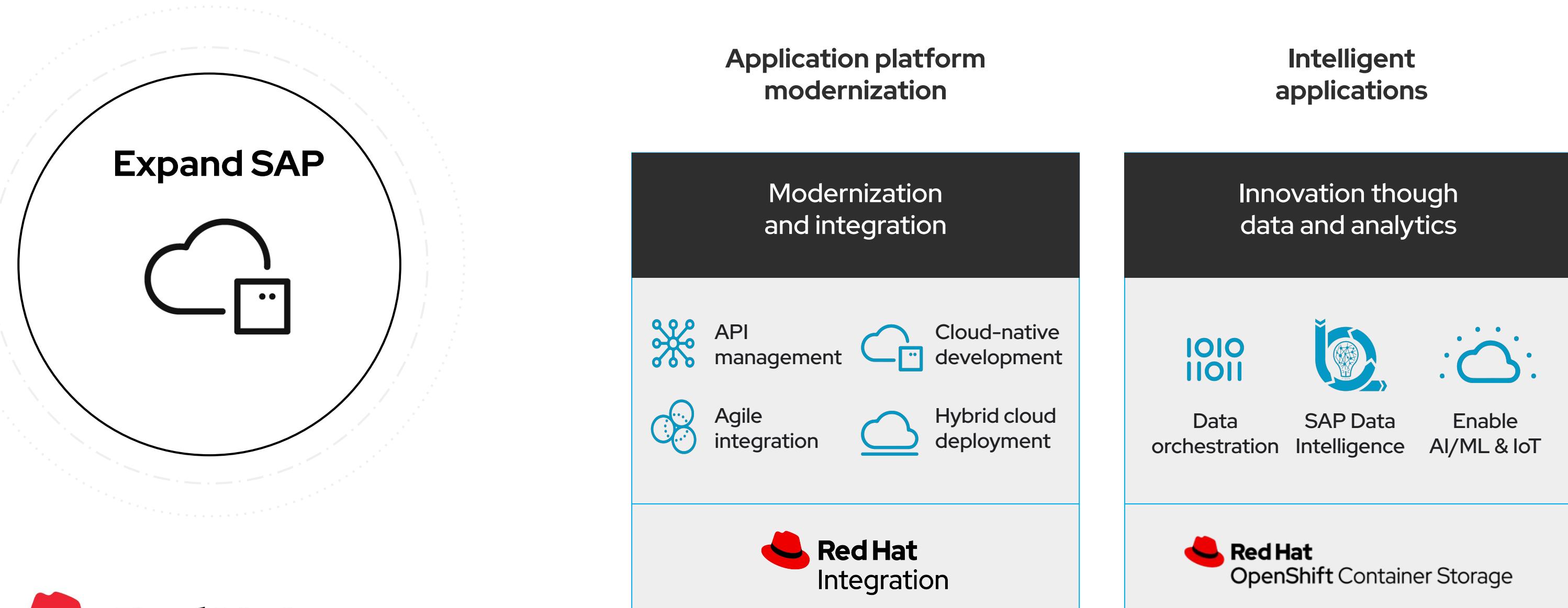


**Red Hat**  
Satellite



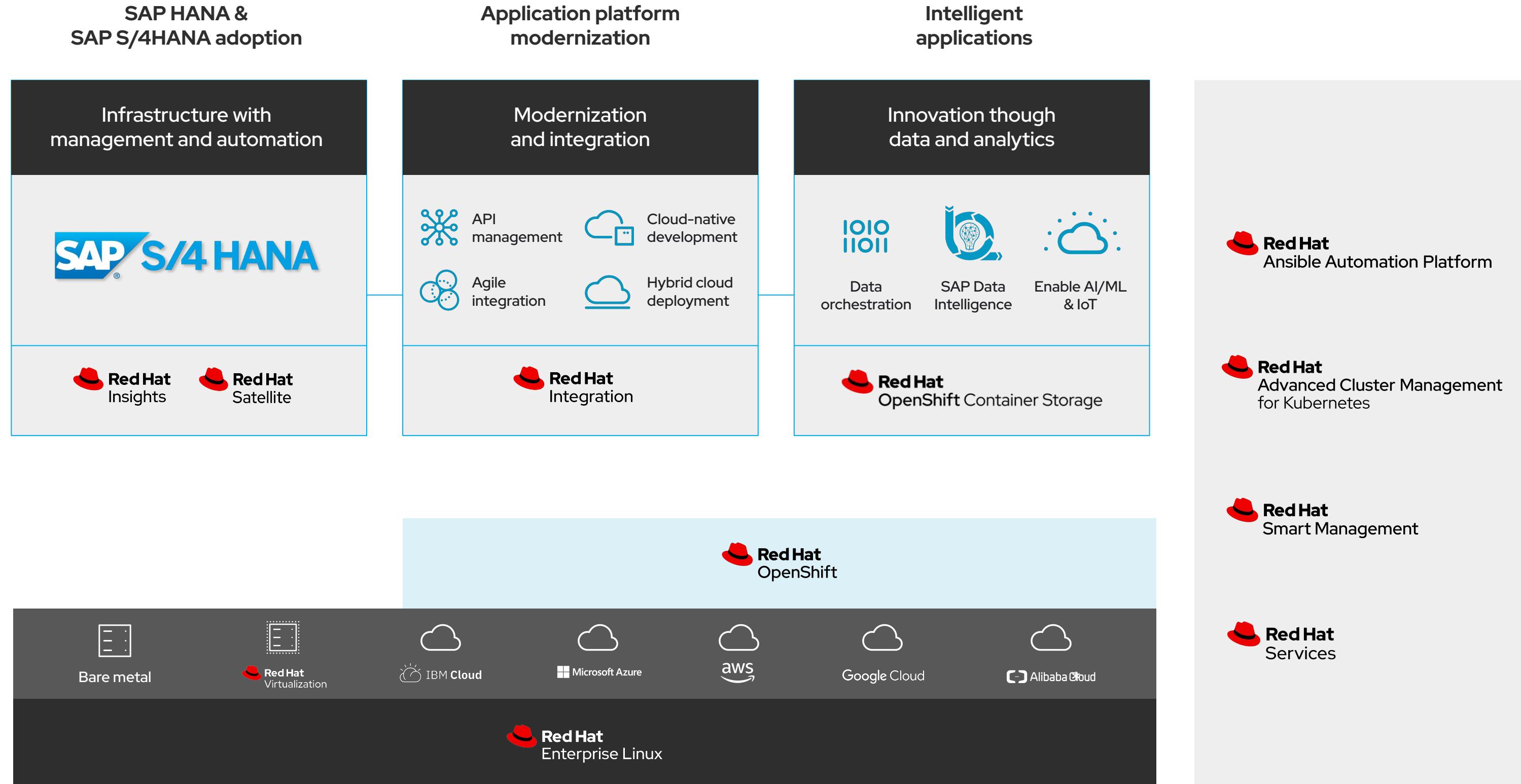
**Red Hat**  
Ansible Automation  
Platform

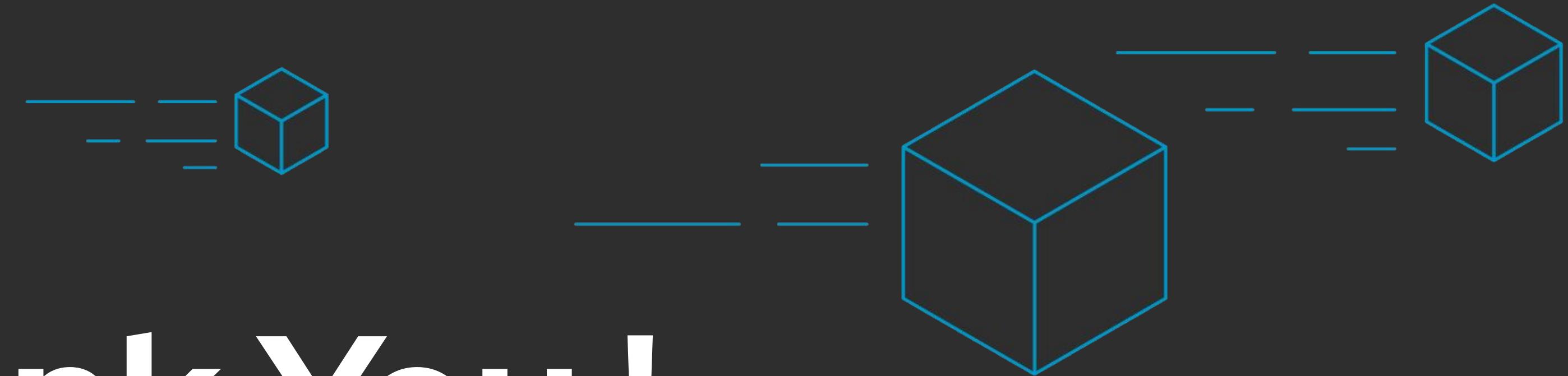




 **Red Hat**  
OpenShift

# The complete and open hybrid infrastructure for SAP





# Thank You !



<https://linkedin.com/company/Red-Hat>



<https://facebook.com/RedHatinc>



<https://youtube.com/user/RedHatVideos>



<https://twitter.com/RedHat>

