

# SAP Product Road Map

## SAP NetWeaver Application Server for ABAP

Road Map Revision: 2016.04.01

Customer



Template Revision: 20150318 v4.0

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# Introduction to product road maps

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## Purpose

Product road maps are designed to support the product adoption planning activities of SAP customers. A product road map helps a customer match short term and long term goals with technology plans.

A product road map describes how the feature / function capabilities in an SAP product or technology are planned to progress over time, in general:

- Today = changes in the current release version
- Planned Innovations = changes planned in one or more upcoming development releases (up to 12-18 months).
- Future Direction = proposed themes for a product or technology beyond the planned releases

## Complementary resources

For a more general description of the business problems / processes being solved and supported by SAP, refer to Solution Road maps.

For more detailed technical information please refer to the Product Availability Matrix, Ramp-up Knowledge Transfer materials and product documentation.

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- Product description
- Key trends and customer needs
- Road map overview and major product updates

## Product Road Map

- Today
- Planned
- Future

## Appendix





# Product Overview

- Product description
- Key trends and customer needs
- Road map overview and major product updates

# SAP NetWeaver Application Server for ABAP

## Product description

SAP NetWeaver AS ABAP is the technology platform and foundation for SAP Business Suite, the ABAP-based SAP NetWeaver hubs and SAP's next generation business suite, SAP S/4HANA, on-premise and cloud editions.

### Rock solid and scalable server

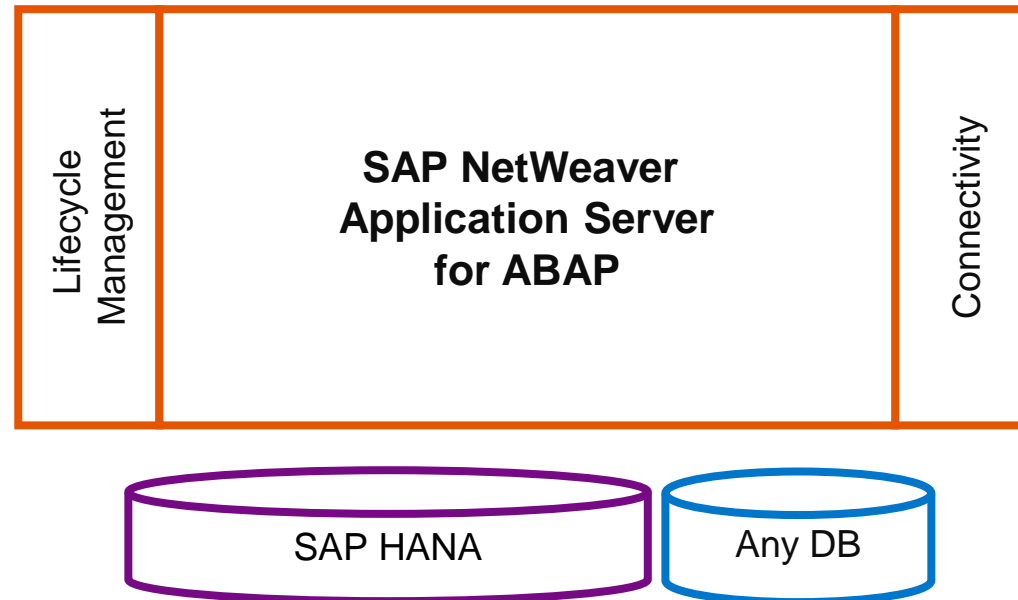
- Proven and reliable development and execution platform for ABAP
- Technology foundation for ABAP-based SAP NetWeaver hubs, SAP Business Suite and SAP S/4HANA

### Comprehensive Lifecycle Management

- Enabler for non-disruptive innovation
- (Near) zero downtime management

### Vast ecosystem

- Partner solution extensions
- Broad developer community



**3.5+ Millions**

Registered  
developers

**100,000+**

Productive Systems  
based on SAP  
NetWeaver

# SAP NetWeaver Application Server for ABAP

## Key trends and impacts in business and technology

### Big data and analytics

- Analyze huge amounts of data in real time
- Predictive algorithms
- Advanced planning and forecasting

### Mobile and social

- User experience
- Mobilize your business
- Sentiment analysis

### Internet of Things

- Connect everything
- Intelligent devices

### Cloud

- Easy deployment and consumption
- Fast on-boarding



# SAP NetWeaver Application Server for ABAP 7.5

## Product positioning

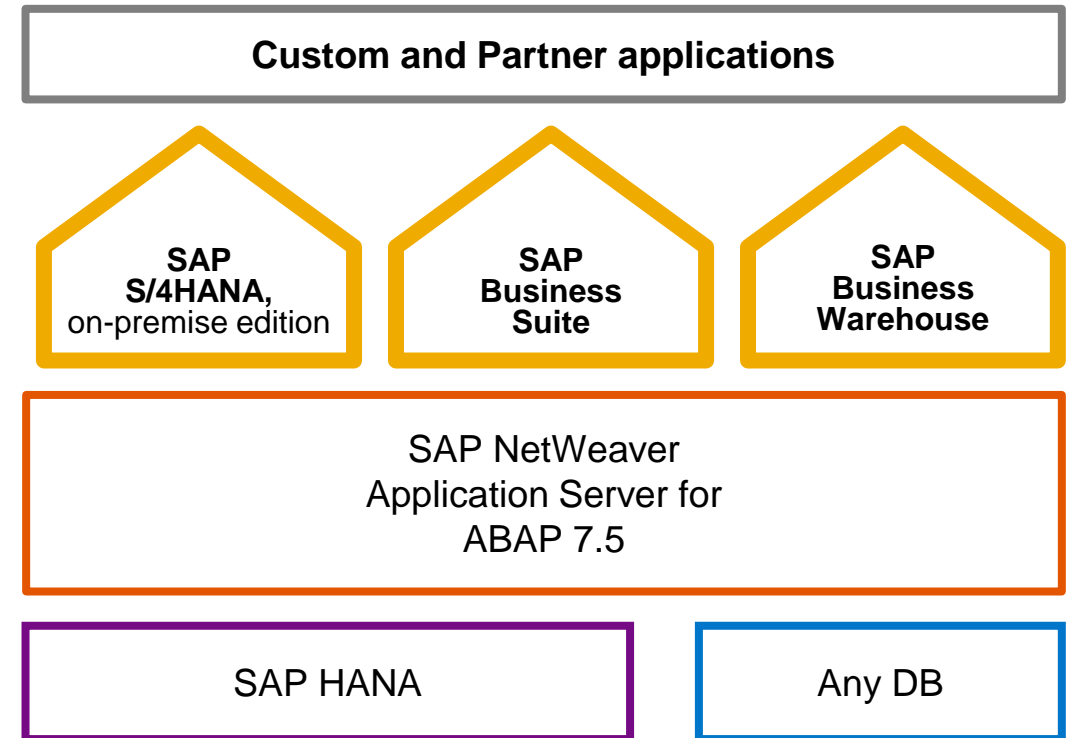
### Go-to release for SAP NetWeaver and all ABAP developments, including those for SAP HANA

- Available since October 2015
- Compatible successor of AS ABAP 7.4
- Supports SAP HANA and other classic databases
- Unicode support only

### Continuous innovation without disruption

- Optimized for SAP HANA
- Efficient programming model for SAP Fiori apps
- High development experience and productivity with Eclipse
- Extension to Cloud, Mobile and Big Data

### Foundation underlying SAP S/4HANA, on-premise edition, and SAP Business Suite





# SAP NetWeaver Application Server for ABAP 7.5

## Development Tools

All desktop based SAP development tools are based on the well-established Eclipse™ tooling platform.

### ABAP Development Tools for SAP NetWeaver

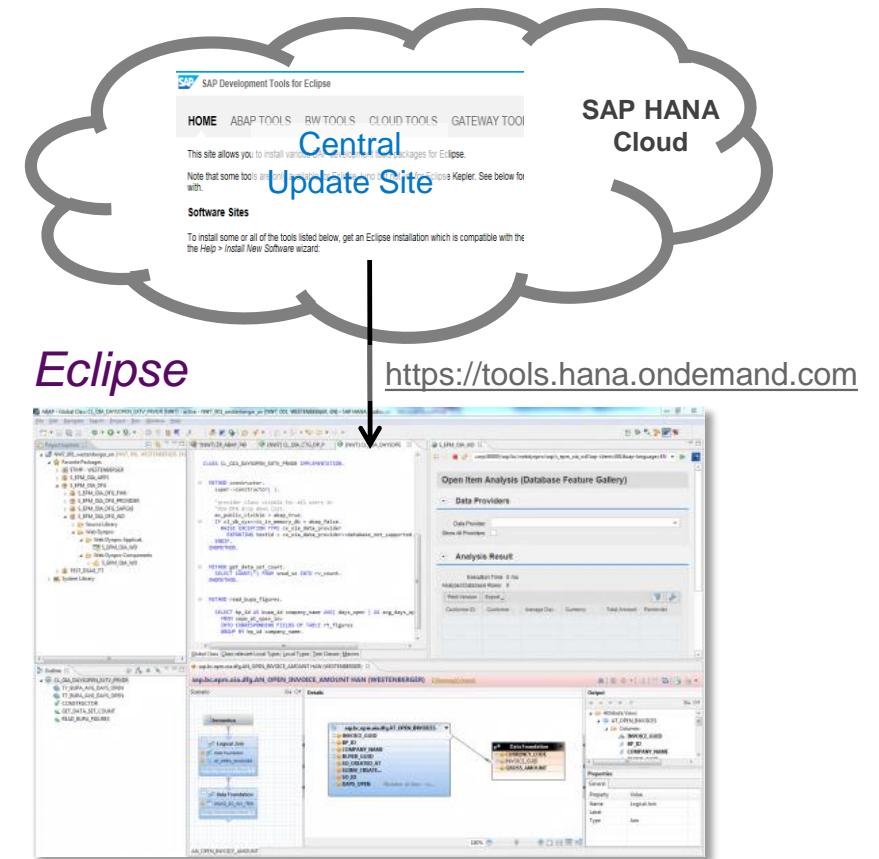
- Superior toolset for ABAP development in Eclipse
- Advanced source code editing, search, navigation, ...
- Full ABAP for SAP HANA support
- New SQL development tools, including new SQL console
- Tools for Floorplan Manager and Web Dynpro ABAP
- Test, quality assurance and troubleshooting

### Open and extensible

- Easy integration of custom and 3<sup>rd</sup> party tools
- Software development kit available

### Central Eclipse update site available

- Easy installation and upgrade
- Selective usage



# Simplify and innovate with technology

Customer needs and the value propositions of the product

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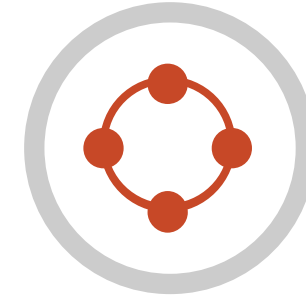
## Grow the core

- Best user experience
- Extensibility
- Decoupling of IT and LoB
- Invest in enterprise ready solutions
- Safeguard and innovate earlier investments of SAP Business Suite



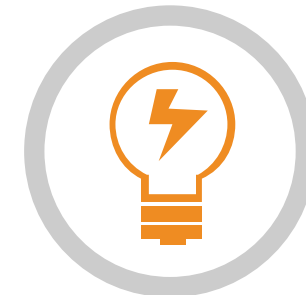
## Connect everything

- Extend proven on premise solutions to hybrid scenarios
- Securely integrate content retrieved from SAP and non-SAP sources
- Involve sensor data (Internet of Things)



## Breakthrough ideas

- Analyze to predict
- New business models
- Engage with larger developer communities
- Open source



# SAP NetWeaver Application Server for ABAP (AS ABAP)

## Product road map overview - key themes and capabilities

### Today

#### Development Platform

- Modern and declarative ABAP language
- Optimized for SAP HANA
- New programming model for SAP Fiori apps
- Easy data exposure via OData services
- Industry 4.0 scenarios support
- Superior ABAP toolset in Eclipse (incl. dictionary)
- Advanced performance analysis tooling
- Tools support for SAP S/4HANA migration

#### User Interface

- Broaden support for SAP Fiori user experience
- Personas-like features for Floorplan Manager

#### Extensibility

- In-app extensibility for SAP S/4HANA
- Side-by-side extensions based on SAP HANA Cloud Platform

#### Lifecycle Management

- Unicode only

(Release 7.5 / 7.6)

### Planned Innovations

#### Development Platform

- Enhanced core data services support
- Enhanced programming model SAP Fiori apps
- Reusable ABAP channels applications
- WebSockets multiplexing
- Increased developer productivity in Eclipse
- Remote ABAP Test Cockpit Infrastructure
- Custom code transformation for SAP S/4HANA

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- ABAP channels support in Floorplan Manager
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- Round offs for in-app extensibility
- Seamless extension and integration based on SAP HANA Cloud Platform

#### Lifecycle Management

- Non-disruptive feature development in support packages

### Future Direction

#### Development Platform

- Continuous optimization for SAP S/4HANA and SAP Business Suite
- On-premise and in the cloud deliveries out of a common codeline
- ABAP development tools for the cloud

#### User Interface

- Improved consumer level user experience
- Embrace new upcoming technical trends in the web with minimal disruption

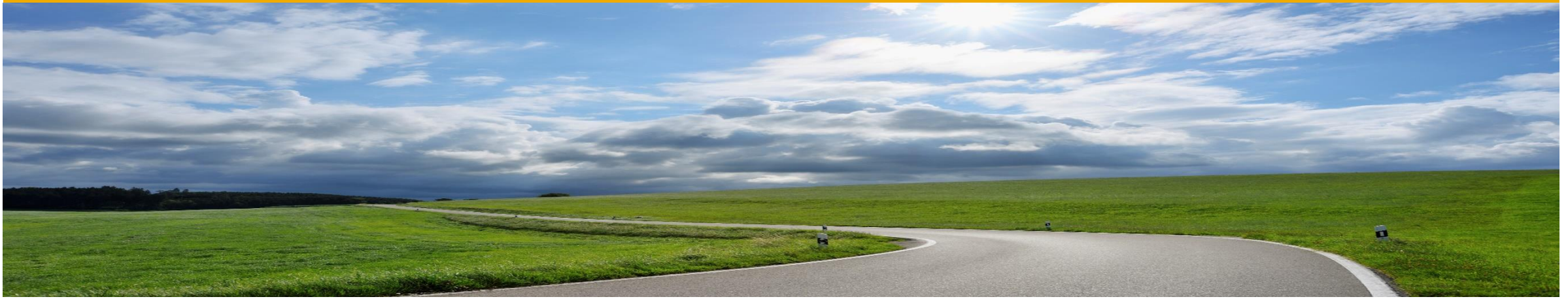
#### Extensibility

- Modification-free extension of cloud-based solutions and scenarios based on SAP HANA Cloud Platform

#### Lifecycle Management

- Yearly innovation update cycle for SAP S/4HANA

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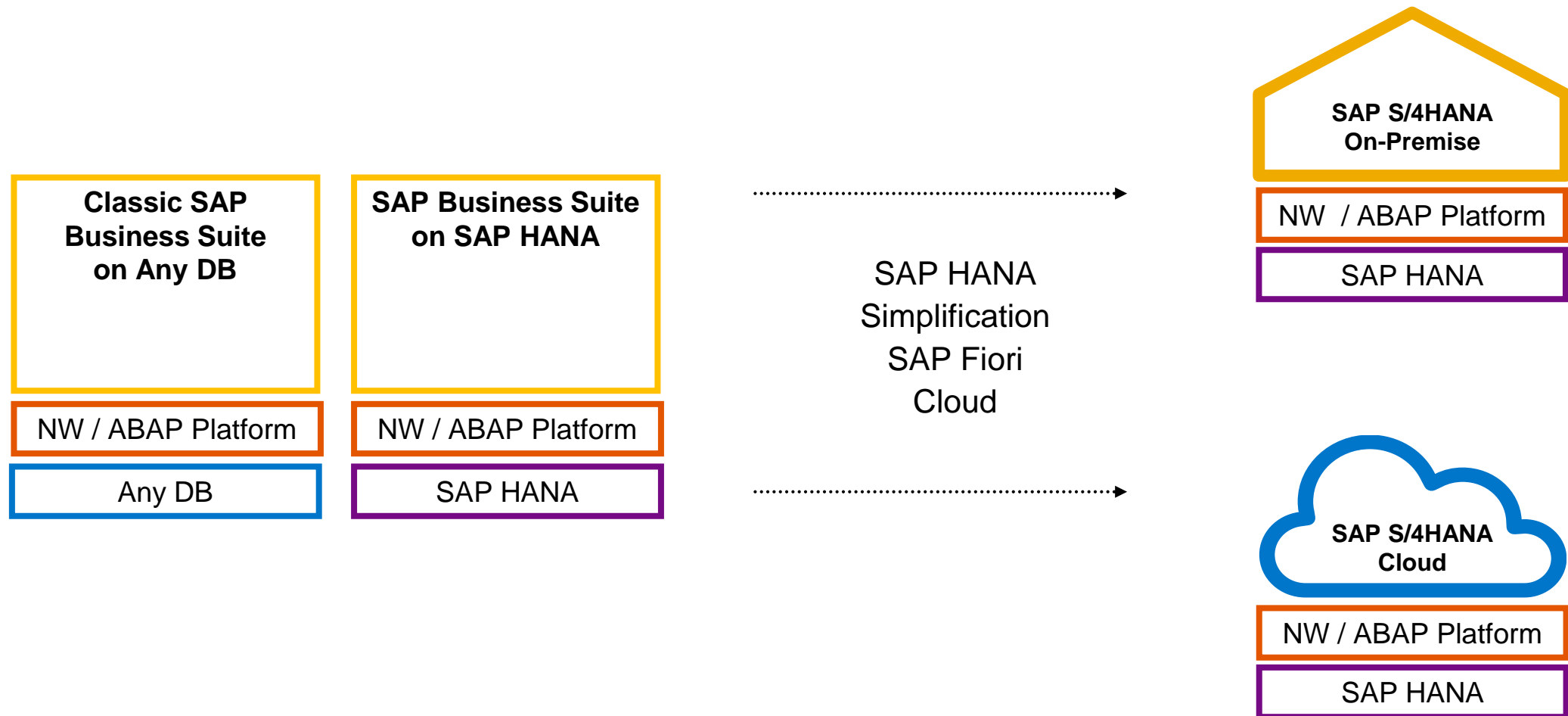
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# SAP NetWeaver Application Server for ABAP

One single common foundation for SAP Business Suite and SAP S/4HANA



# SAP NetWeaver Application Server for ABAP

## Exploit SAP HANA in productive applications

### Application logic with performance relevant coding

```

FOR ALL ENTRIES IN LT_BKPF_0
  WHERE BUKRS = LT_BKPF_0-BUKRS
  AND BELNR = LT_BKPF_0-BELNR
  AND GJAHR = LT_BKPF_0-GJAHR
  ORDER BY PRIMARY KEY.
IF SY-SUBRC <> 0.
  RAISE NOT_FOUND.
ENDIF.
ENDIF.

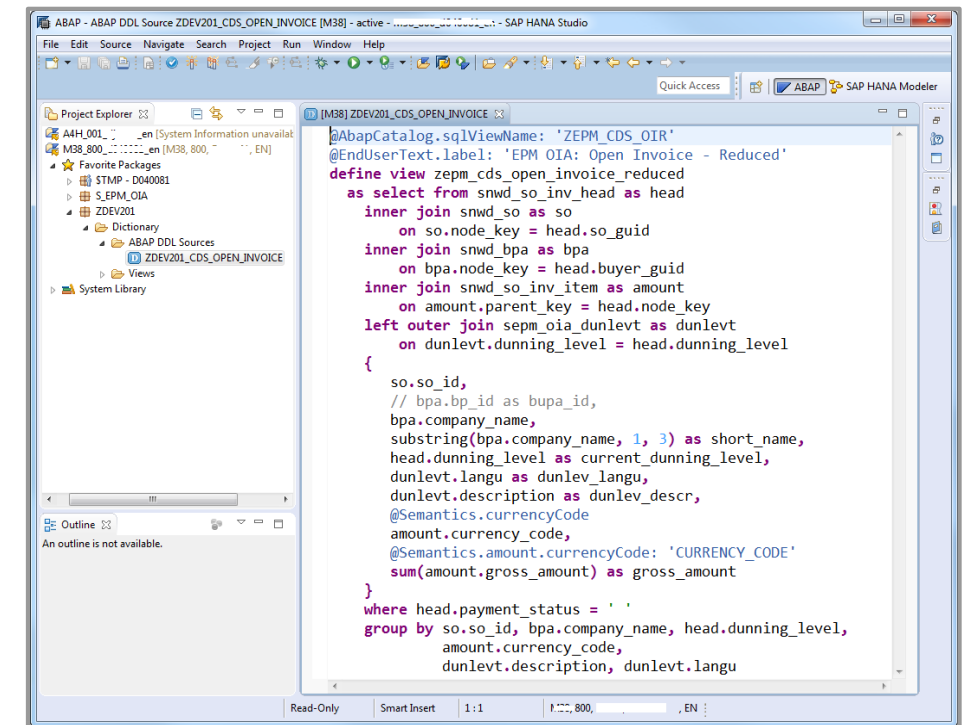
IF NOT LT_BKPF_L[] IS INITIAL.
  SELECT * FROM BSEG_ADD INTO TABLE LT_BSEG_ADD
  FOR ALL ENTRIES IN LT_BKPF_L
  WHERE BUKRS = LT_BKPF_L-BUKRS
  AND BELNR = LT_BKPF_L-BELNR
  AND GJAHR = LT_BKPF_L-GJAHR.
IF SY-SUBRC <> 0.
  RAISE NOT_FOUND.
ENDIF.
ENDIF.

* begin of note 918695
IF NOT LT_BSEG_ADD[] IS INITIAL.
  LOOP AT LT_BSEG_ADD ASSIGNING <LS_BSEG_ADD>.
    CLEAR LS_BSEG.
    MOVE-CORRESPONDING <LS_BSEG_ADD> TO LS_BSEG.
* convert fkber into bseg format
IF NOT <LS_BSEG_ADD>-FKBER IS INITIAL.
  CLEAR LS_BSEG-FKBER.
  CALL FUNCTION 'FUNC_AREA_CONVERSION_OUTBOUND'
    EXPORTING
      I_FUNC_AREA_LONG = <LS_BSEG_ADD>-FKBER
    IMPORTING
      E_FUNC_AREA      = LS_BSEG-FKBER
      E_FUNC_AREA_LONG = LS_BSEG-FKBER_LONG.
ENDIF.
  APPEND LS_BSEG TO LT_BSEG.

```

### ABAP Managed Code-Pushdown

### Open SQL, Core Data Services, ABAP Managed Database Procedures



# SAP NetWeaver Application Server for ABAP

## ABAP managed code pushdown for SAP HANA

Mainstream  
for ABAP code pushdown

### **Extended ABAP SQL Interface (DDIC)**

Open SQL

Core Data Services (CDS)

„Code-Breakouts“  
for exploiting native SAP HANA features

### **New ABAP native SAP HANA Interface**

ABAP Managed Database Procedure (AMDP)

Table functions (Call AMDPs from CDS)

ABAP like development, transport, correction and troubleshooting

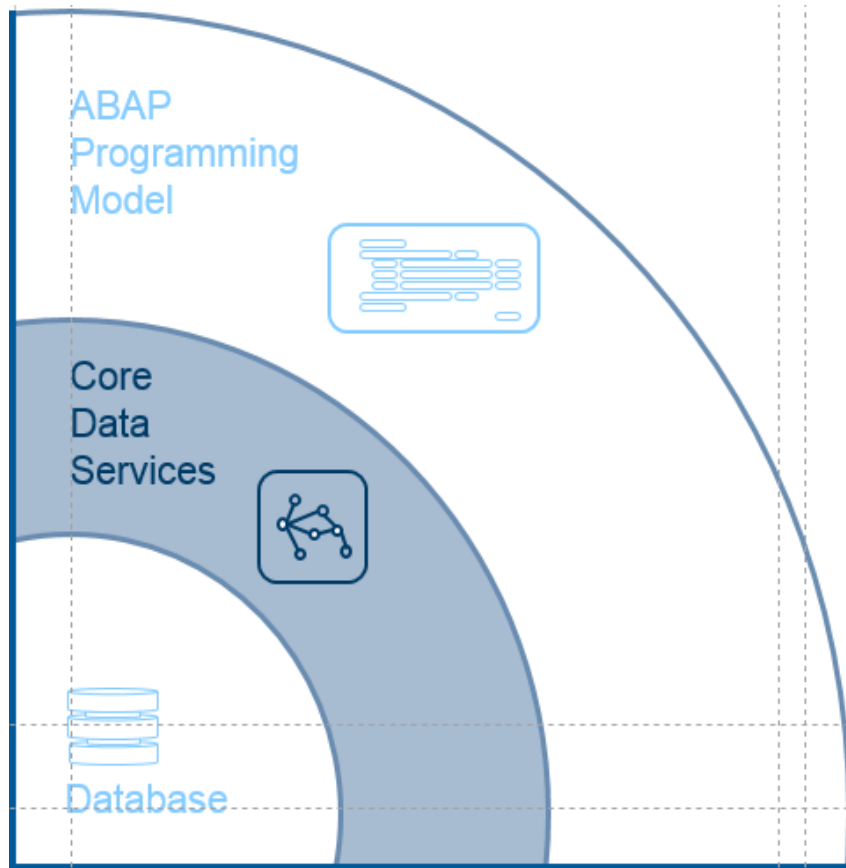
Easy to learn for ABAP developers

Exploits all native capabilities of SAP HANA



# SAP NetWeaver Application Server for ABAP

## Core Data Services: Next generation data definition and access



- 1** Data definition and access using declarative and semantically rich data-models, close to conceptual thinking
- 2** Using and extending SQL to capture the business intent reducing complexity and error proneness
- 3** Works at best with SAP HANA DB and any SAP-certified databases
- 4** Optimized programming model for all application domains (transactional, analytics, search, ...)
- 5** Rich set of built-in functions and code pushdown abilities
- 6** Vital part of SAP deliveries like SAP S/4 HANA and SAP BW, available as of SAP NetWeaver 7.4 SP05.

# SAP NetWeaver Application Server for ABAP

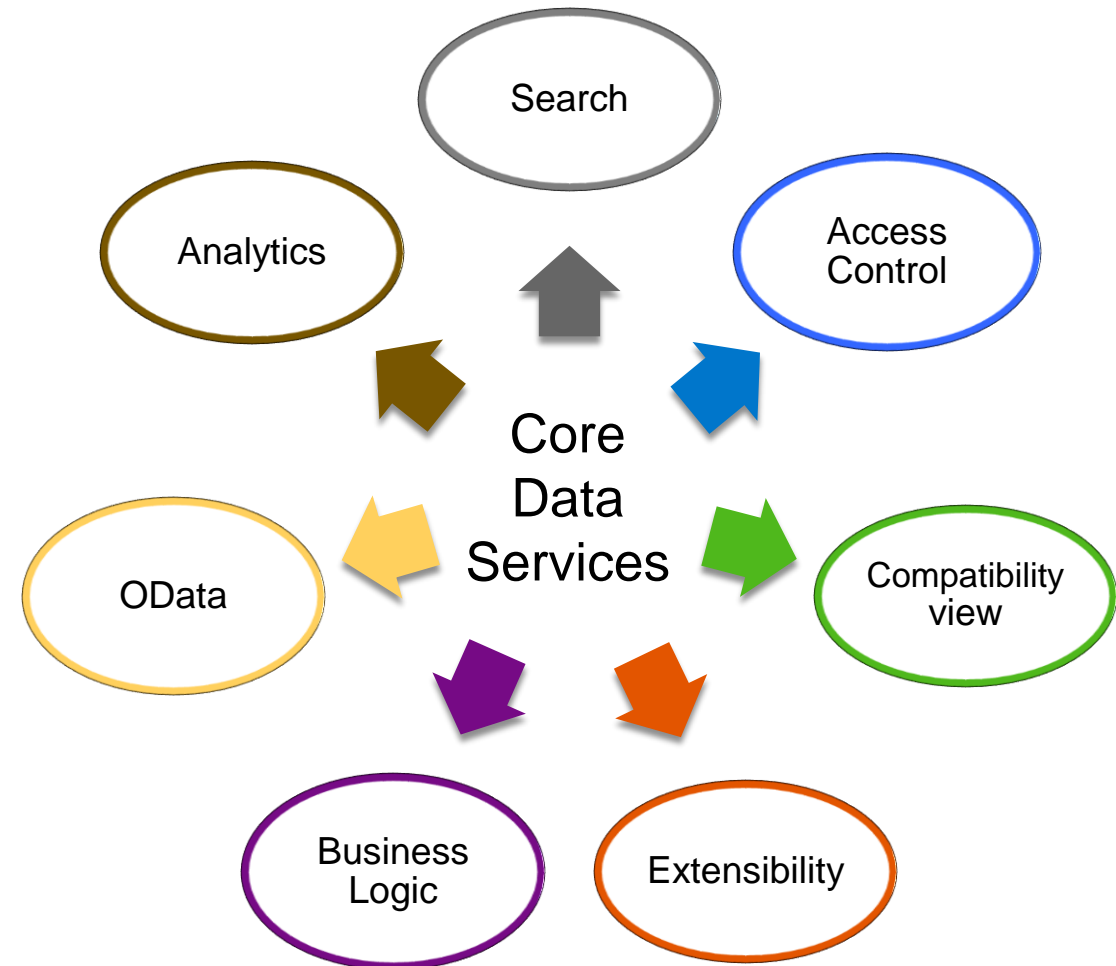
## Core Data Services: Common basis for domain-specific frameworks

**Reusable and unified view model for all use cases**

**Annotations enabling flexible usage in different contexts**

**Integration of SAP HANA native features through seamless interaction with AMDP**

**Efficient development in Eclipse**



# SAP NetWeaver Application Server for ABAP

## ABAP managed database procedures and functions

ABAP Managed Database Procedures (AMDP) framework enables developers to create, manage and access SAP HANA procedures and functions. This is managed from the ABAP development and runtime infrastructure in an easy manner.

### Implementations of natively-implemented SAP HANA DB entities directly from ABAP

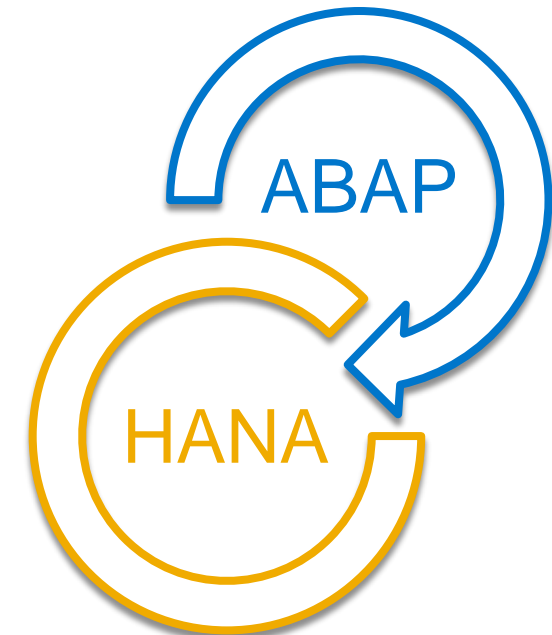
- SQLScript-based expression of complex logics
- Local variables
- Parameterized requests
- Multiple result sets possible

### Fully integrated in the ABAP infrastructure

- Development, lifecycle management, runtime error analysis, transport ...
- ABAP classes as container for SQLScript source code

### Easy access to SAP HANA specialized engines and libraries

- Calculation engine, text mining, predictive analysis, financials, ...



# SAP NetWeaver Application Server for ABAP

## New programming model for SAP Fiori apps

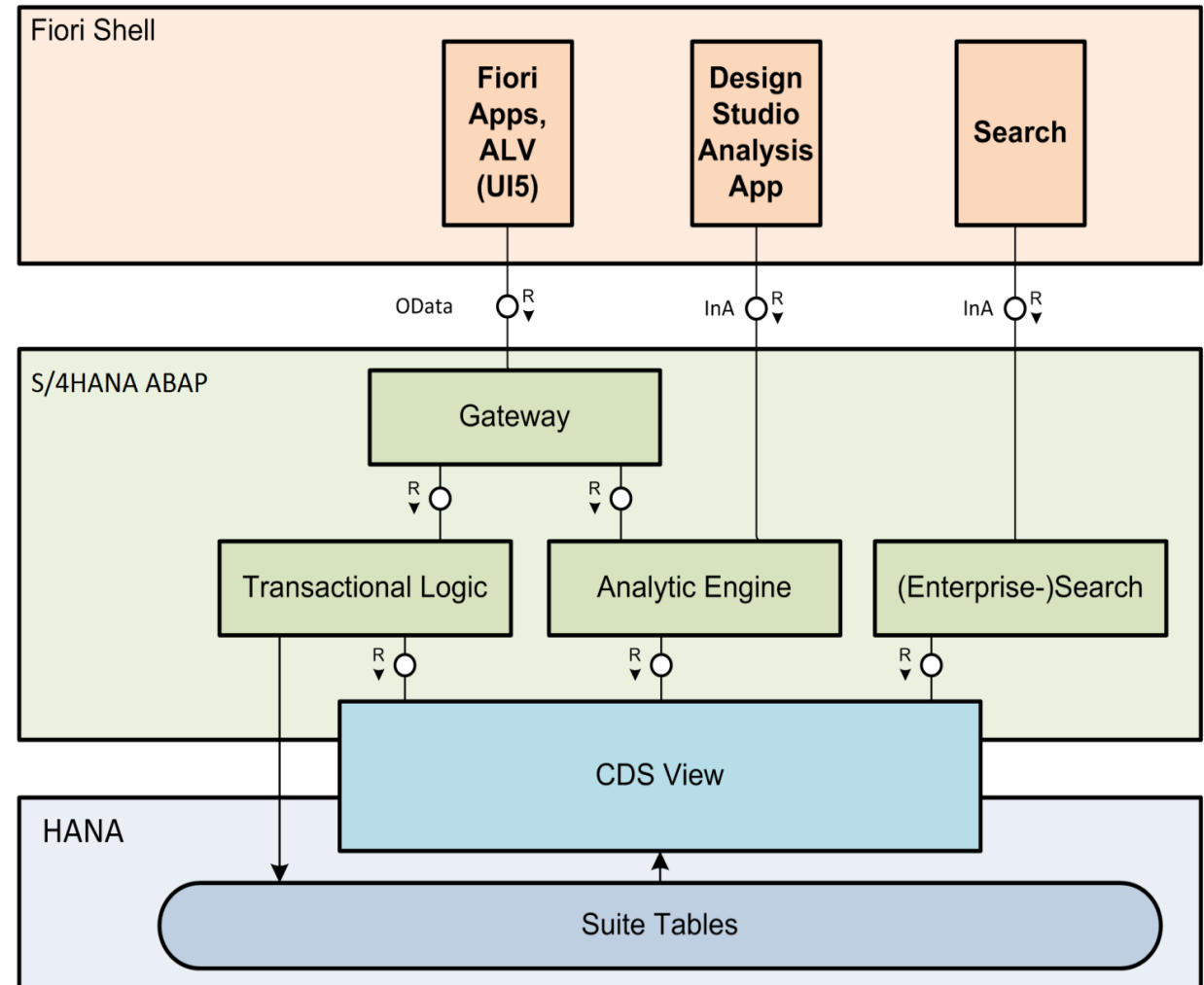
The new ABAP application infrastructure enables an efficient on-premise development of SAP Fiori applications.

### Efficient programming model

- SAP Fiori user experience on all devices drives the model
- Combine transactions, search and analytics
- One data model for all consumers
- Optimized for SAP HANA
- Common cloud qualities (e.g. extensibility)

### Eclipse based tools

- Dictionary tools natively in Eclipse
- Custom code management tools
- Test, quality assurance and troubleshooting





# SAP NetWeaver Application Server for ABAP

Today

## Industry 4.0 scenarios support

ABAP channels support Industry 4.0 scenarios by enabling real-time eventing and supporting native TCP/IP protocols.

### Direct communication with sensors /machines

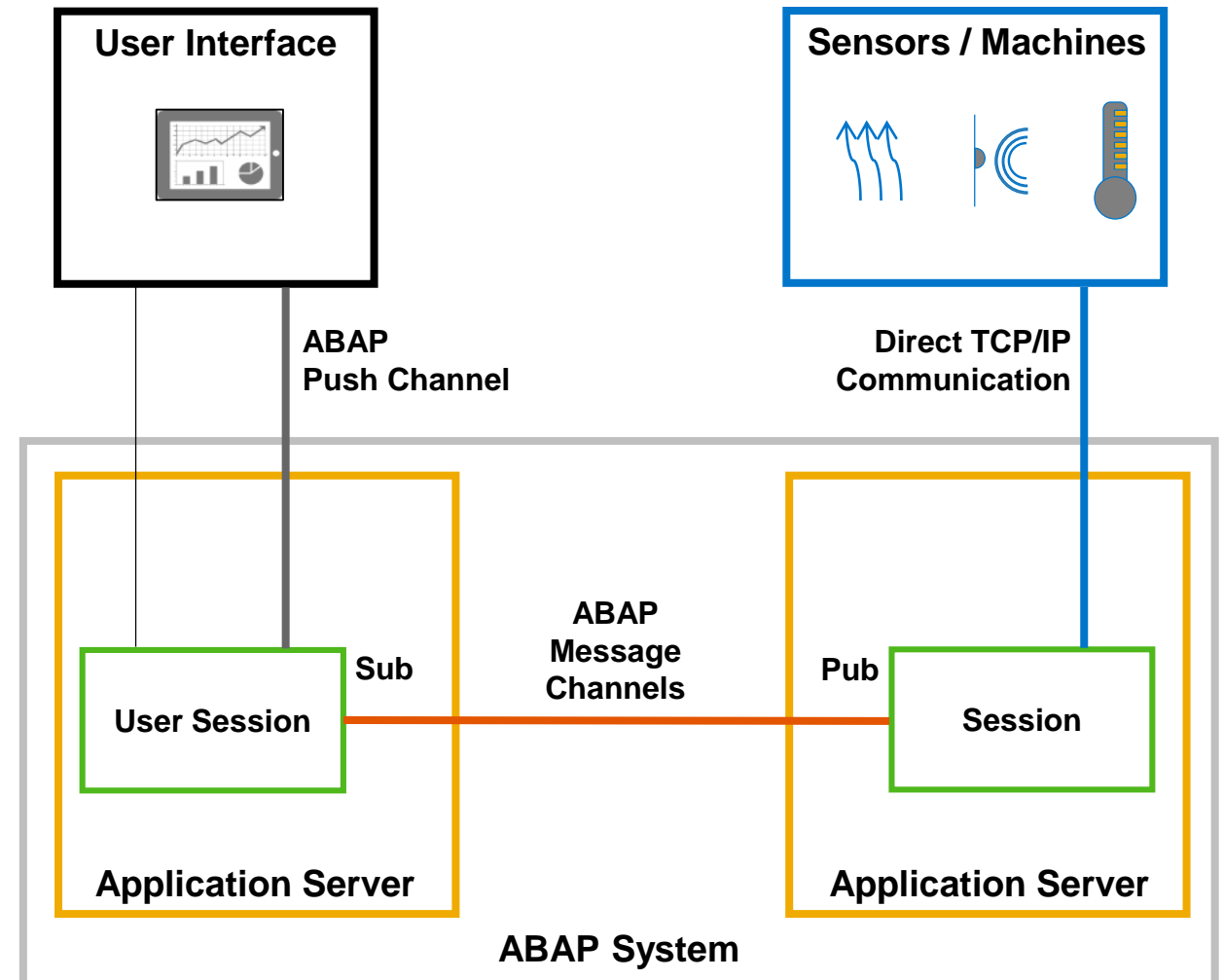
- Support native TCP/IP protocols

### ABAP messaging channel – collaborate

- Publish / subscribe infrastructure to exchange messages between sessions
- Data changes are published to subscribed clients immediately

### ABAP push channel – No more polling

- Bi-directional communication via WebSockets in ABAP
- User interface is automatically updated when data changes

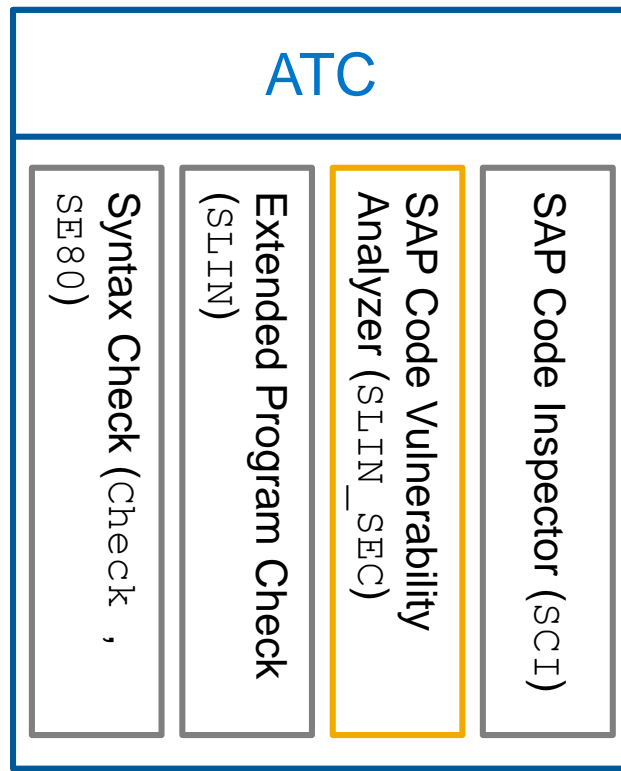


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# SAP NetWeaver Application Server for ABAP

## Advanced quality assurance tooling

**ABAP Test Cockpit** for running static quality checks and unit tests on ABAP objects



**SQL Monitor** for performing runtime code analysis in productive ABAP-based systems

The screenshot shows the SQL Monitor interface. The top section displays system status information:

- State: Number of Records: 665,006; Record Limit: 2,000,000; Last State Change: 19.08.2014 / 11:46:58 (CET) by user [redacted]; Last Data Action: 01.07.2014 / 09:57:04 (CET) by user [redacted] (refresh data); Scheduled Data Refresh Job: Scheduled for Job Event SAP\_RTM\_COLLECT\_ALL\_FINISHED by User [redacted]; Scheduled Deactivation: 26.08.2014 / 11:46:56 (CET) by user [redacted]; Time Series: Active / Period: 1 Hours; Activation State: Globally Active (8 servers available).

Below this is a table of server status:

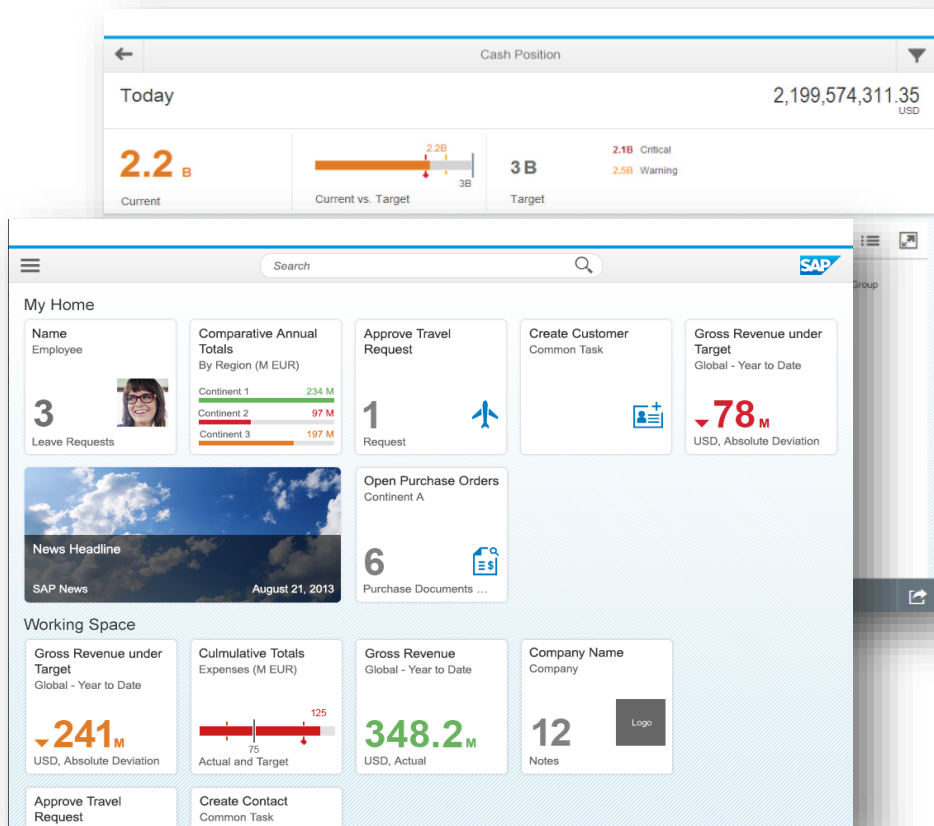
| Server Name  | Expected State | Actual State          | Local ... |
|--------------|----------------|-----------------------|-----------|
| vm:012..._33 | Green          | SQL Monitor is active |           |
| vm:012..._33 | Green          | SQL Monitor is active |           |

There are buttons for 'All Servers', 'Deactivate', 'Select Servers', 'Display Data', and 'Export Data'.

The bottom section shows a table titled 'SQL Monitor: Top 200 records, not aggregated'. The table has columns: DB Extns, Total DB Time, Total Records, DB Mn T, Mean, Table Names, SQL Operation, Obj., Object Name, and Include Name. The table contains 20 rows of data, with the last row highlighted in yellow.

# SAP S/4HANA Extensibility

## Customer extensions for cloud and on premise



1

Key user can do **easy changes directly in the app**

2

ABAP based extensions and **custom code**

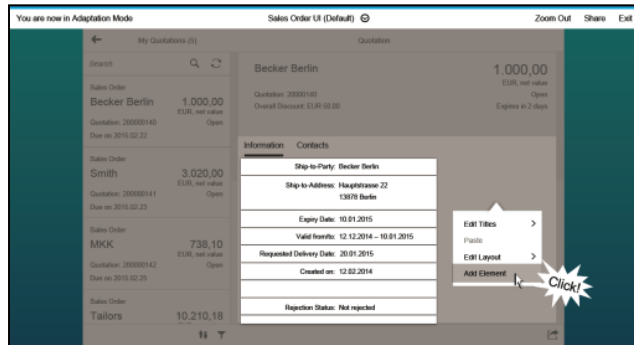
3

**SAP HANA Cloud Platform** for side by side extensions and cloud integration

# SAP S/4HANA Extensibility

Key user extensibility - easy changes & extensions of SAP Fiori apps

UI-Layout-Changes  
e.g. hide, move, add existing fields



SAP Fiori UI



OData Service



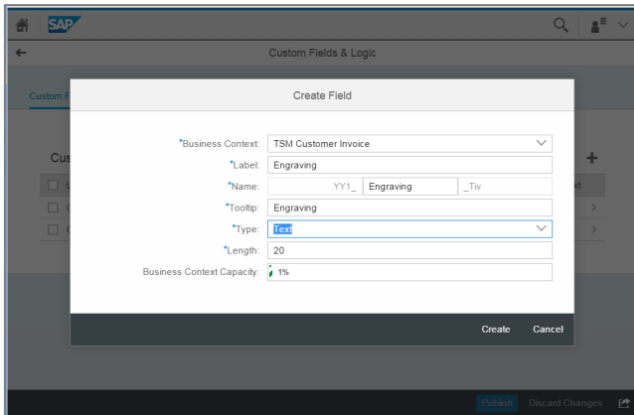
Application



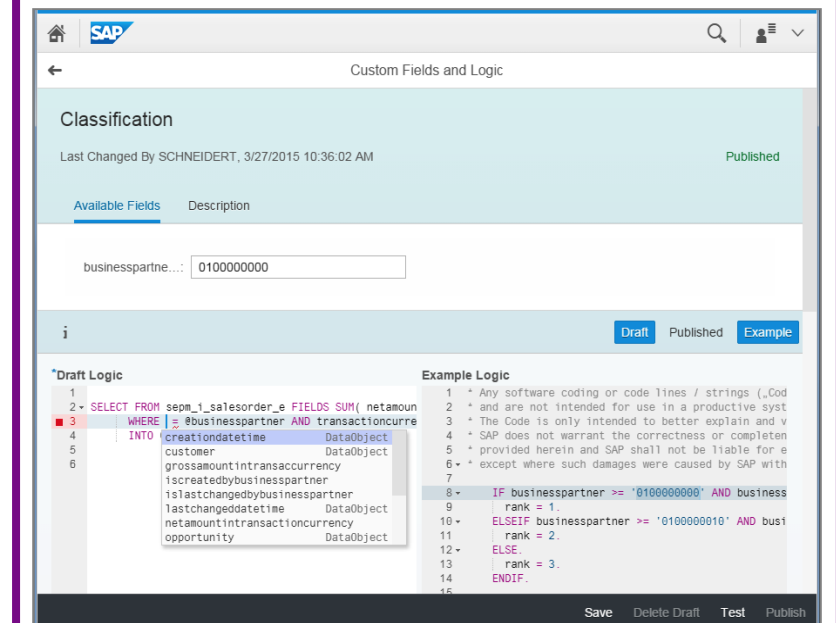
Database Table



Add custom fields



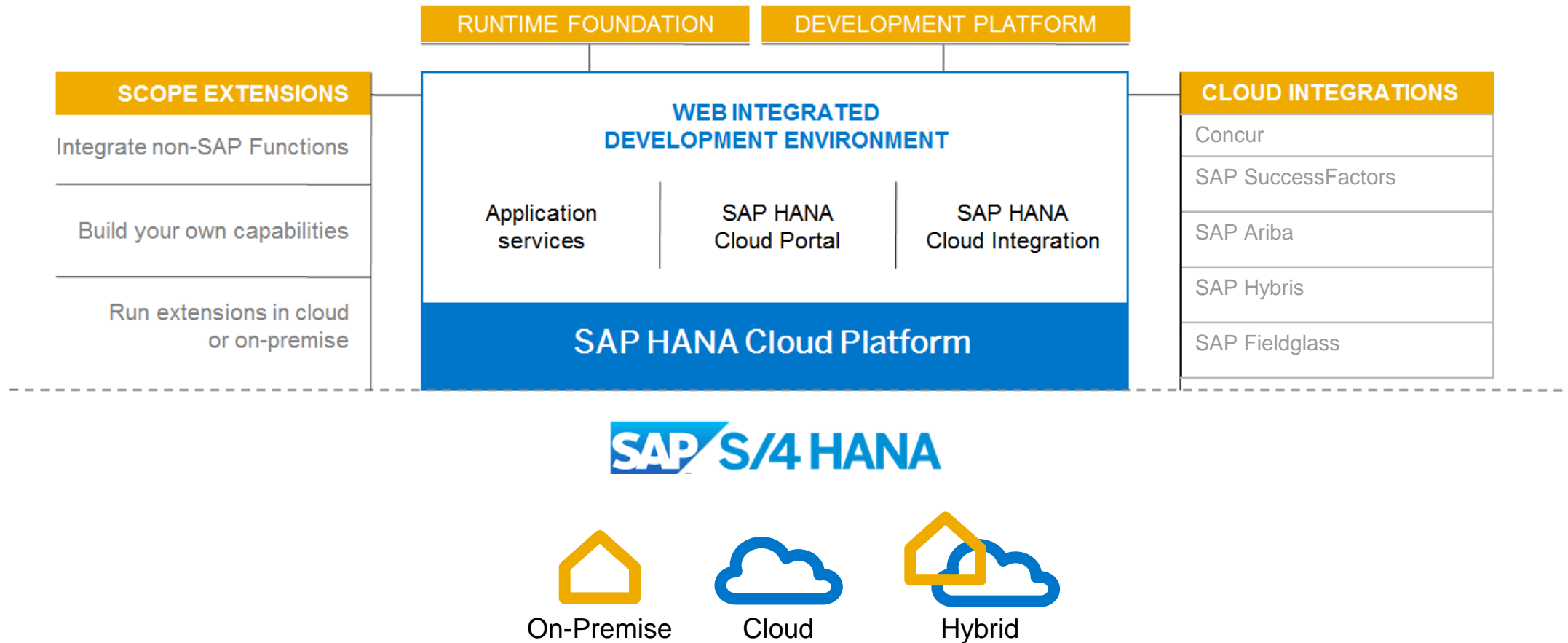
Add customer specific logic (BAdI)





# SAP S/4HANA Extensibility

## Side-by-side extensibility with SAP HANA Cloud Platform



# SAP NetWeaver Application Server for ABAP (AS ABAP)

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(Release 7.5 / 7.6)

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#### Extensibility

- Modification-free extension of cloud-based solutions and scenarios based on SAP HANA Cloud Platform

#### Lifecycle Management

- Yearly innovation update cycle for SAP S/4HANA

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# SAP S/4HANA

## Enhanced programming model for transactional SAP Fiori apps



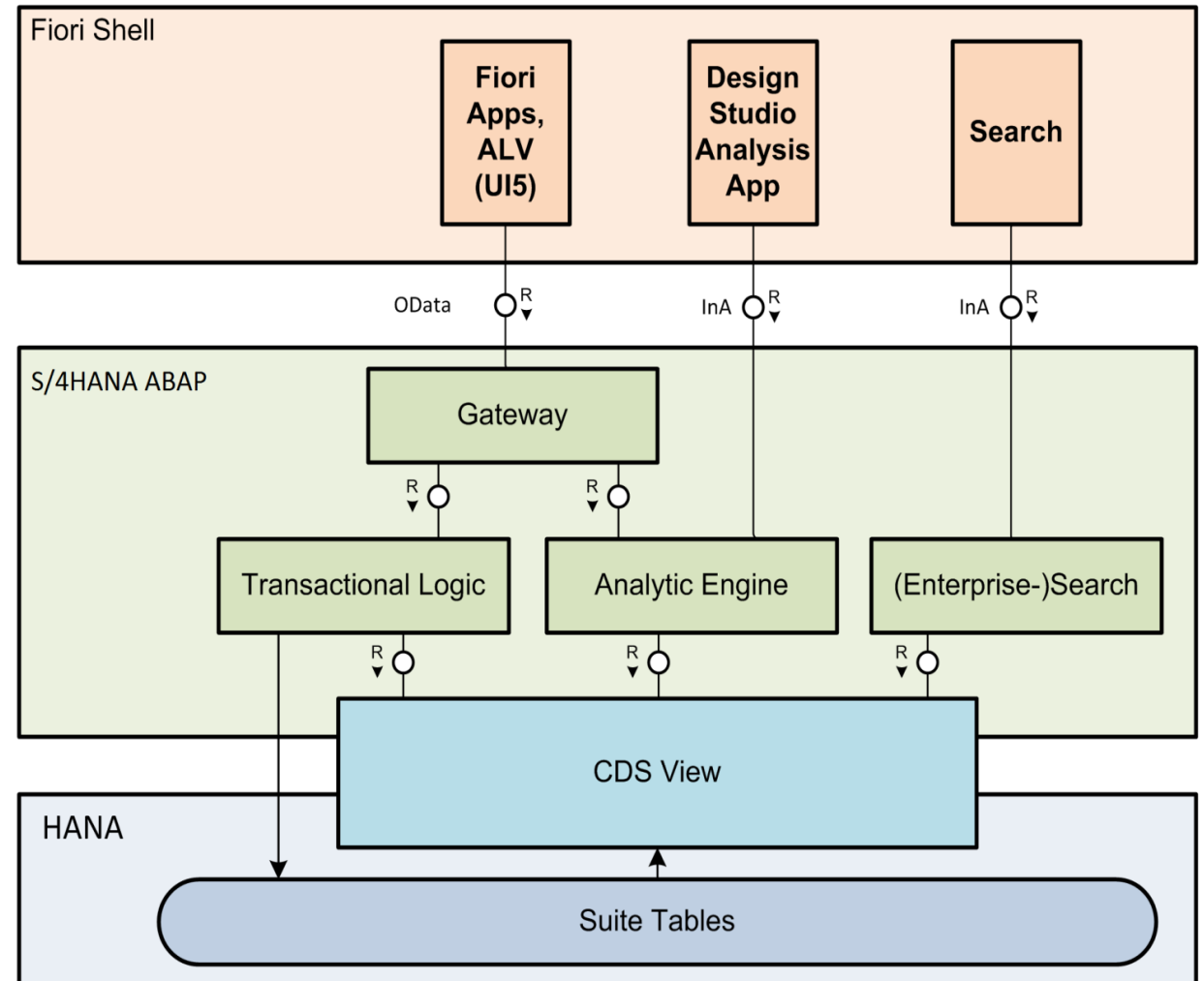
### Simple transition to SAP Fiori user experience

Improve support of writing scenarios

Transaction, error and event handling services

Support of BO programming model

Lifecycle management and best practices



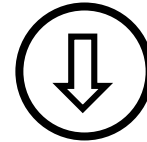
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# SAP S/4HANA Migration

## ABAP custom code migration - Adapt SAP S/4HANA changes - Tool support

- 1 Download Simplification Database from SMP and upload to analysis system
- 2 Run Custom Code Extractor and transfer metadata to analysis system
- 3 Optional: Get usage data to restrict effort for productively used custom code
- 4 Work on customer specific hits

### Task



Customer ERP DEV or Q System

Custom Code Extractor

Customer ERP Productive System

Collect Usage Data



### Analysis System

#### Simplification DB

Changed/deprecated functionality  
Changed/deprecated business processes

&

#### Custom code metadata

Used SAP objects  
Extended SAP objects  
Modified SAP objects

&

#### Customer specific metadata

Usage data from productive system

=

#### Result of Analysis

Affected custom code  
Affected extensions  
Affected modifications

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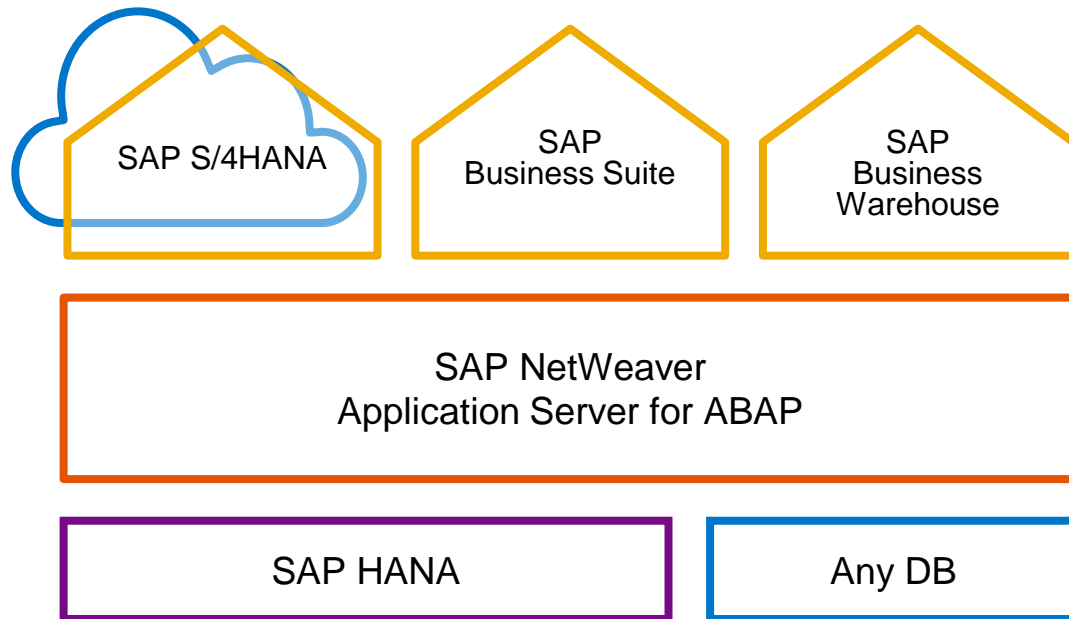
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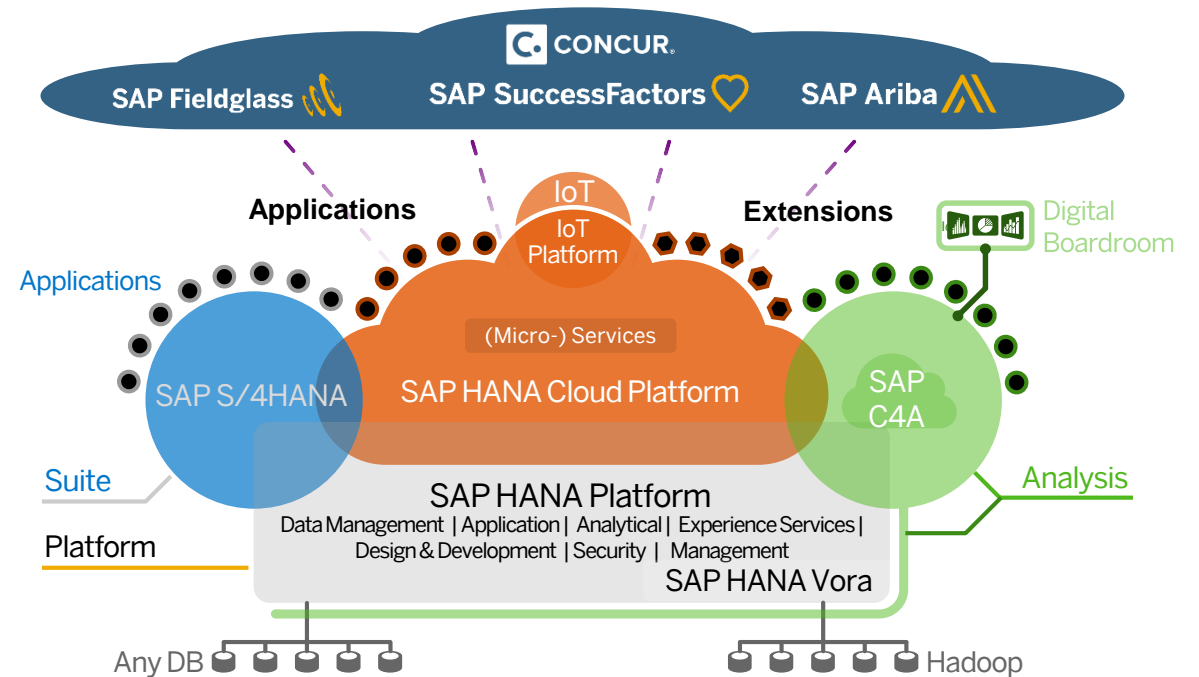
# SAP NetWeaver AS ABAP and SAP HANA Cloud Platform

Hybrid scenarios: bridging on premise and on demand

Hybrid scenarios that bridge on demand and on-premise solutions will evolve further. SAP HANA Cloud Platform will serve to extend SAP's business suite solutions with cloud technology.



Compatible with 7.x,  
optimized for SAP HANA



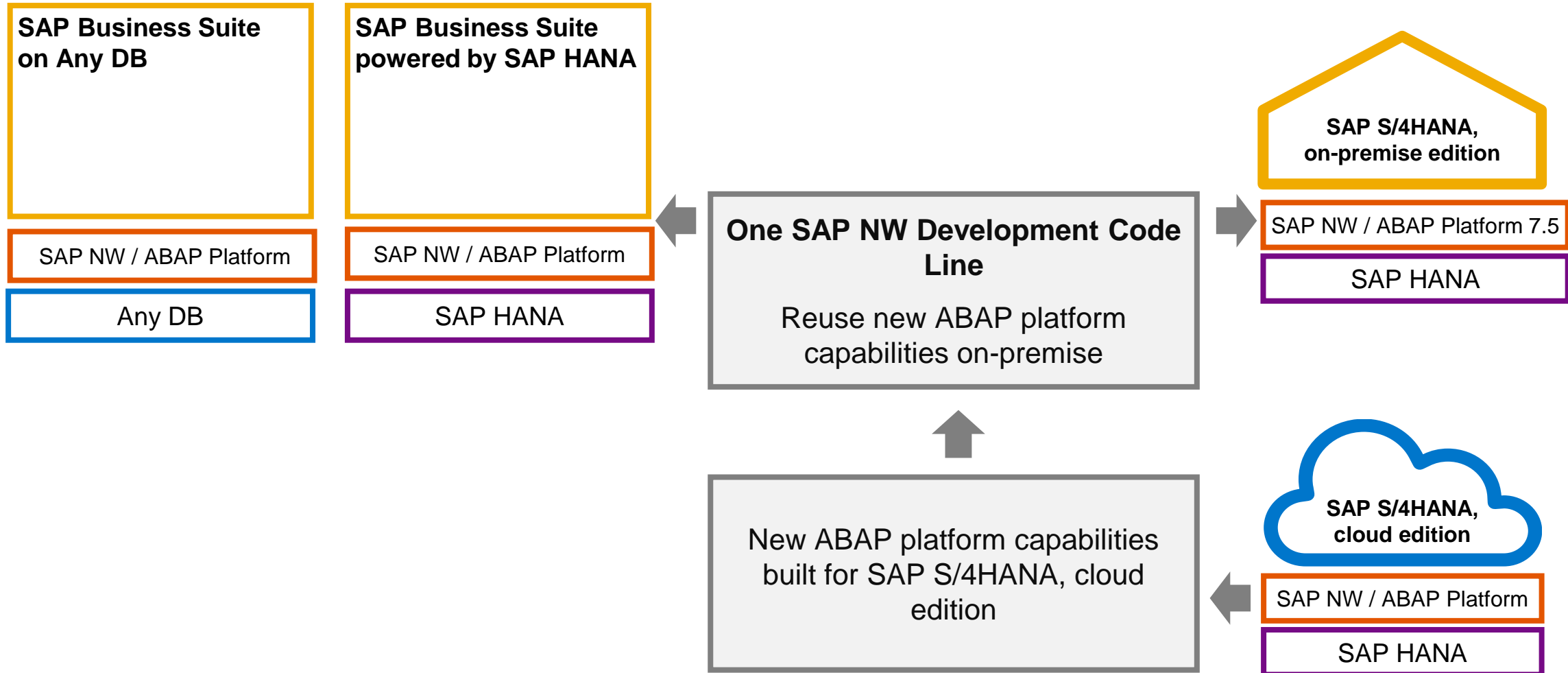
Layered cloud services  
powered by SAP HANA

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# SAP NetWeaver AS ABAP

## Reuse of SAP S/4HANA developments



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# SAP S/4HANA Extensibility

## ABAP based extensions and custom code

### Classic ABAP custom code On-Premise



ABAP extensions

SAP Standard

SAP objects are modified, enhanced  
and used without restrictions

No  
modifications  
use only public  
APIs

### ABAP extensions Designed for Cloud



ABAP extensions

Public Model / Whitelist

CDS

BAdi

API

SAP Standard

Automated SAP software deployment  
needs clear separation of SAP and  
custom code

This is the current state of planning and may be changed by SAP at any time.

# Summary

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**SAP NetWeaver AS ABAP is the proven technology platform for the SAP Business Suite, the ABAP-based SAP NetWeaver hubs and SAP S/4HANA.**

## **Major takeaways for SAP NetWeaver AS ABAP 7.5**

- Modern and declarative ABAP programming language
- Optimized for SAP HANA
- Designed as a fully compatible enhancement package
- Successor release for SAP NetWeaver AS ABAP 7.4
- Superior ABAP development tools provided in Eclipse
- Broader support of the SAP Fiori UI paradigm
- Extensible to the cloud with SAP HANA Cloud Platform
- Unicode support only

## **Major investment areas for SAP NetWeaver AS ABAP**

- Innovations and enhancements for SAP S/4HANA and classical SAP Business Suite
- Common ABAP programming model for transactional and analytical SAP Fiori applications
- Increased productivity for back-end and UI developments

**This is the current state of planning and may be changed by SAP at any time.**



# Thank you

## Road map contacts for customers and partners

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VP Product Management

Senior Product Specialist

# Key links for more information

For customers and partners

## Key links

- Road maps on SAP Service Marketplace
- SAP Community Network
- IT Planning Resources
- ABAP in Eclipse
- SAP NetWeaver 7.4 Landing Page @SCN
- ABAP SCN community
- ABAP for SAP HANA SCN community

<http://service.sap.com/saproadmaps>

<http://www.sdn.sap.com/>

<https://service.sap.com/~sapidb/011000358700001160122012E>

<http://scn.sap.com/community/abap/eclipse>

<http://scn.sap.com/docs/DOC-35002>

<http://scn.sap.com/community/abap>

<http://scn.sap.com/community/abap/hana>

## Where to go to provide product feedback and ideas

- SAP Idea Place
- Influence programs
- SAP User Groups

<https://ideas.sap.com>

<http://service.sap.com/influence>

<http://www.sapusergroups.com/>

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