

Integrating SAP S/4HANA into SAP Data Intelligence: Deep Dive and Hands On.

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PUBLIC

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Agenda

1. Short Introduction to SAP Data Intelligence
2. Integrating SAP S/4HANA into SAP Data Intelligence - Overview
3. Deep Dive and Exercise Scenario (Workshop Use Case)
4. The Enterprise Procurement Model (EPM) in SAP S/4HANA
5. Getting Started

Short Introduction to SAP Data Intelligence



SAP Data Intelligence

One solution to support the end-to-end workflows for intelligent enterprise applications and business processes

Manage metadata across a diverse data landscape and create a metadata repository

Create data pipelines to leverage your data projects and orchestrate the data integration processes

Operationalize machine learning models and contents to accelerate, scale and automate your Data Science projects



IT Administrator



Data Admin



Data Engineer



Data Scientist



Data Steward



Business Analyst



Access &
connect data



Govern &
discover data



Prepare &
manage data



Build scalable
& flexible data
processes



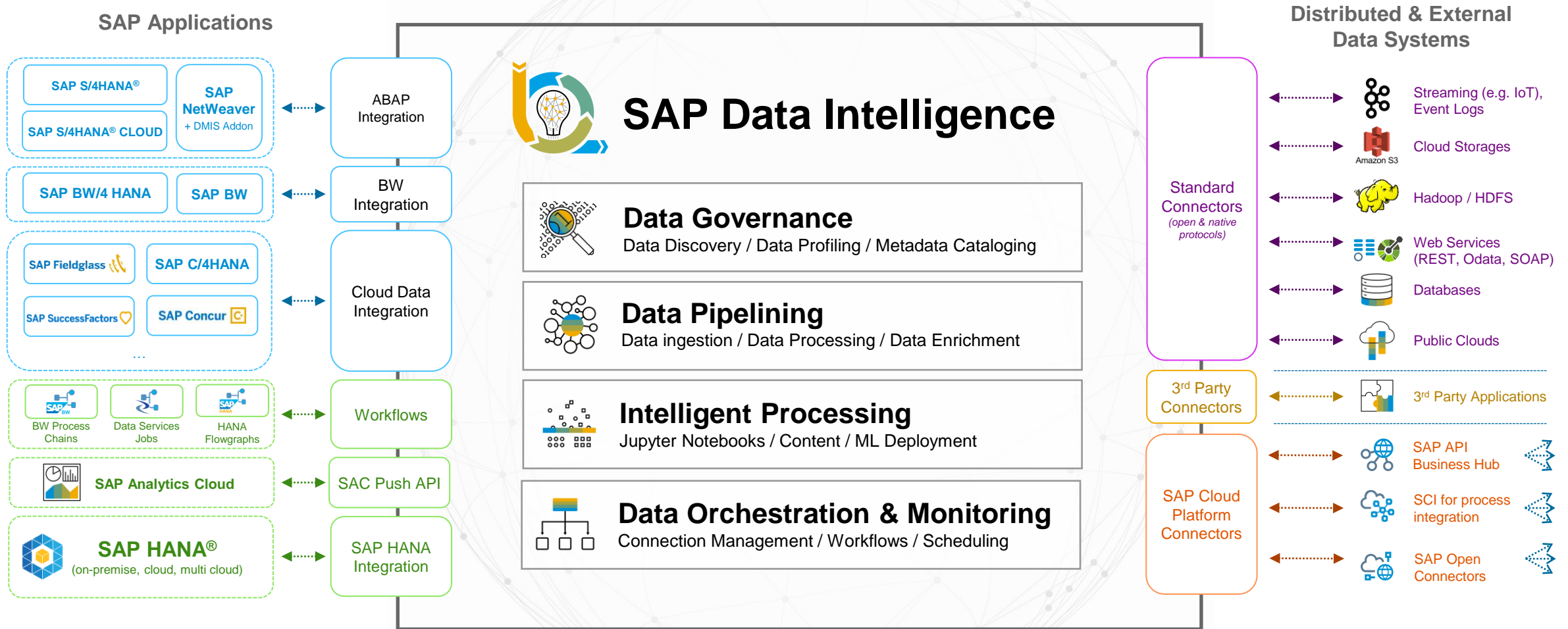
Deploy & integrate
intelligent
scenarios



Monitor &
orchestrate
the lifecycle

SAP Data Intelligence

End to End Data Integration and Processing



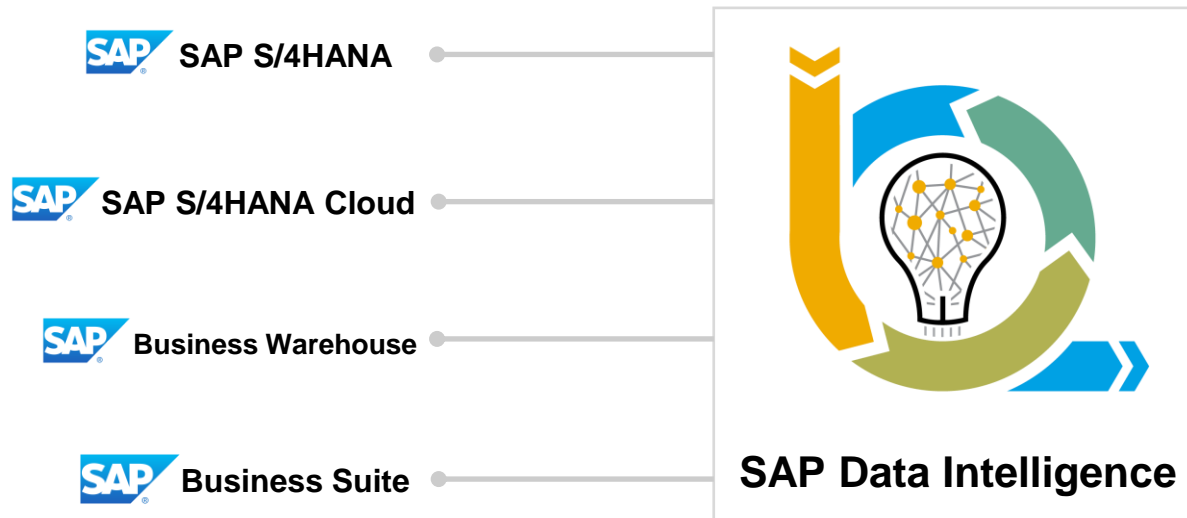
Integrating SAP S/4HANA into SAP Data Intelligence - Overview



ABAP Integration

Overview

One model to consolidate all interaction scenarios between SAP Data Intelligence and an ABAP-based SAP systems directional and bi-directional



Capabilities



Provide **ABAP METADATA** to the SAP Data Intelligence Metadata Explorer



ABAP DATA PROVISIONING to transfer data into SAP Data Intelligence



ABAP FUNCTIONAL EXECUTION that is triggerable as a SAP Data Intelligence Operator

Enterprise Application Integration

Unified integration model to consume and interact with SAP S/4HANA & SAP Business Suite systems

Available ABAP operators to consume and interact with



ABAP CDS VIEW READER

Operator that supports initial load and delta replication of CDS views.



CUSTOM ABAP OPERATOR

Operator to implement your ABAP custom code that will be executed as part of a pipeline in the connected ABAP system. For example to call a function module.



SLT CONNECTOR OPERATOR

Operator to communicate with SAP LT Replication Server (SLT). Leverage existing replication scenarios to bring data into a SAP Data Intelligence pipelines.



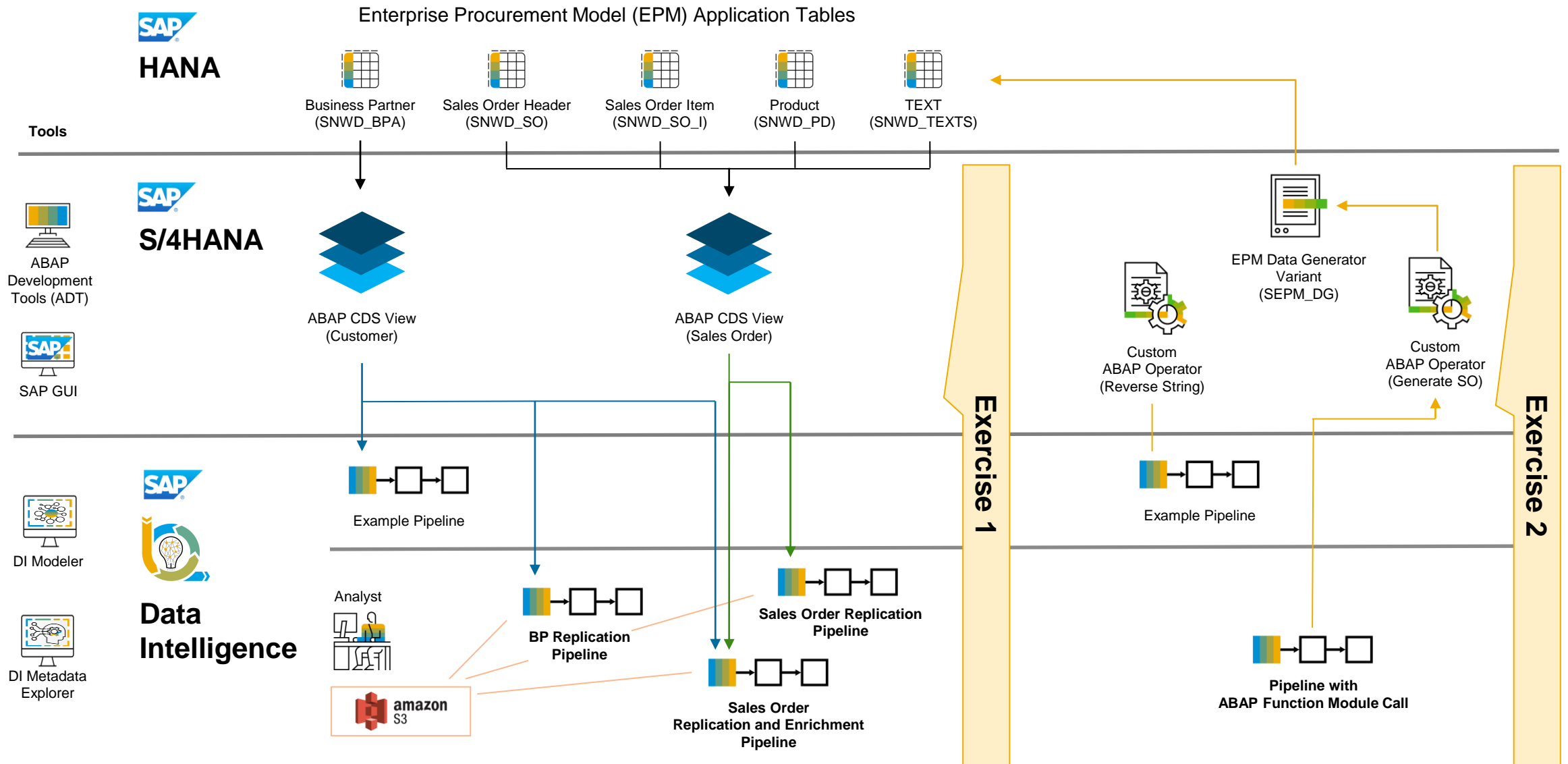
ODP READER

Operator that can read from Operational Data Provisioning out of a SAP Business Warehouse or SAP BW/4HANA into SAP Data Intelligence.

Deep Dive and Exercise Scenario (Workshop Use Case)



Workshop Scenarios



The Enterprise Procurement Model (EPM) in SAP S/4HANA



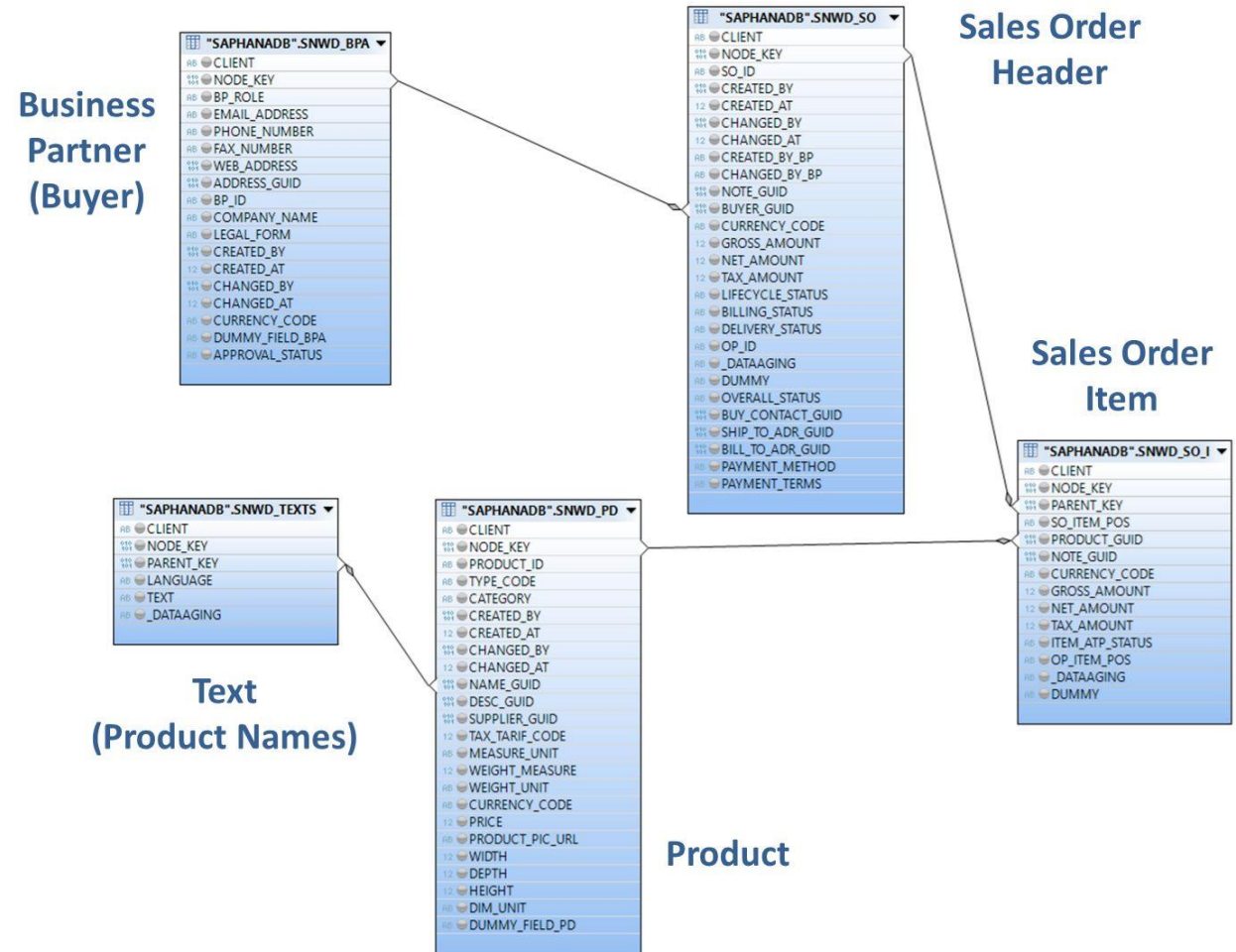
Brief introduction to the Enterprise Procurement Model (EPM)

The business scenario at the core of EPM is that of a web shop run by a retail company called ITelO, a fictitious company that buys and sells computers & accessories.

Even though EPM also provides several predefined CDS Views, which are all linked to each other via associations, we'll be using the underlying physical tables in our Deep Dive demos and the Exercises. They are starting with the prefix SNWD_.

The relevant tables for our scenario are

- BUSINESS PARTNER (SNWD_BPA),
- SALES ORDER HEADER (SNWD_SO),
- SALES ORDER ITEM (SNWD_SO_I),
- PRODUCT (SNWD_PD),
- and TEXTS (SNWD_TEXTS).



Getting Started with the Exercises



Access to the exercises' S/4HANA and Data Intelligence environments

All participants should have received an Excel spreadsheet with a mapping of the SAP User to the Workshop user and the related credentials for the S/4HANA and Data Intelligence system.

The Eclipse based **ABAP Development Tools** (ADT) can be setup as follows

1. Add an entry for an user specific application server to your list of connections in the SAP Logon application. Use the following settings:
Description: Training S/4HANA Integration with Data Intelligence (example)
System ID: S4H
Instance Number: 00
Application Server: 18.158.247.81
2. Initially log on to the S/4HANA system and change your password, when prompted. Remember the password for later usage.
3. In ADT, add a new ABAP Project and select the above System Connection and logon to Client 000 with your renewed S/4HANA credentials.

You can log on as follows to the **SAP Data Intelligence (DI) system**

- In a Chrome Browser, open the link to:
<https://vsystem.ingress.dh-3s98cuwz0.dh-canary.shoot.live.k8s-hana.ondemand.com/app/datahub-app-launchpad>
- Logon to tenant '**workshop**' and use the credentials of the Excel user mapping list that you have received along with the workshop invitation.

You will also find a step-by-step guidance in the **exercise documentation** on Github: https://github.com/BM285/DI_ABAP_Integration



Enjoy!

Thanks for attending this session.

Contact for further topic inquiries

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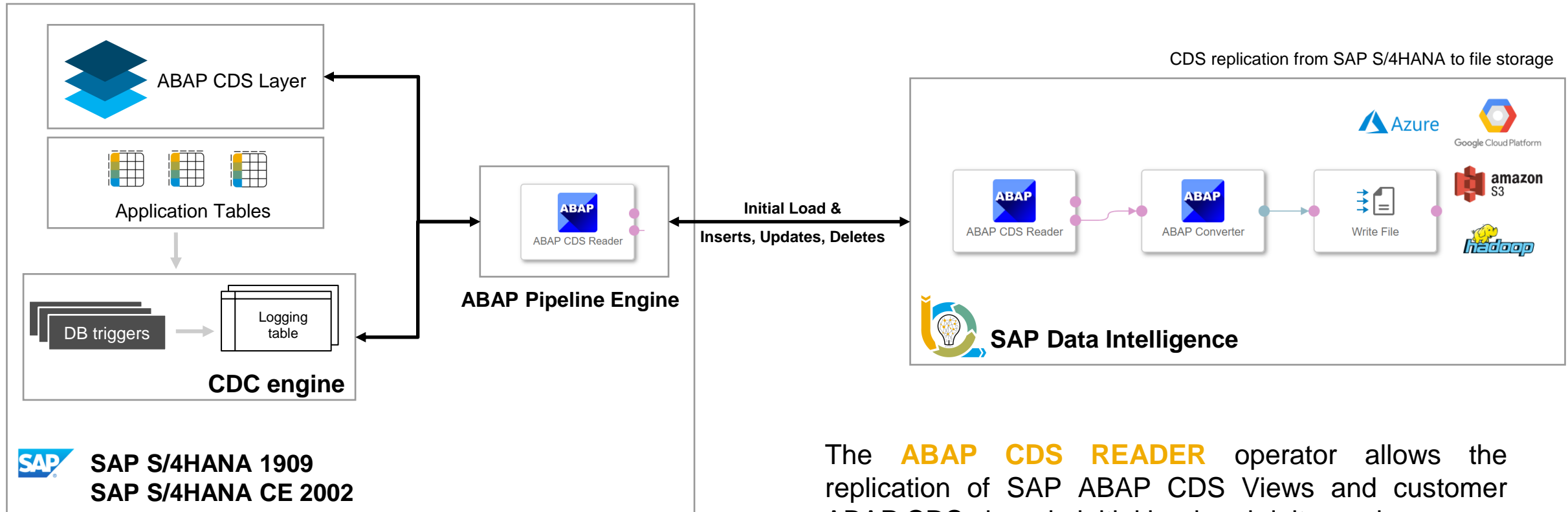
Backup



ABAP CDS Reader

Data provisioning for SAP S/4HANA

ABAP CDS is the semantically rich data model in SAP S/4 HANA and allows the consistent representation of a business object like a Business Partner

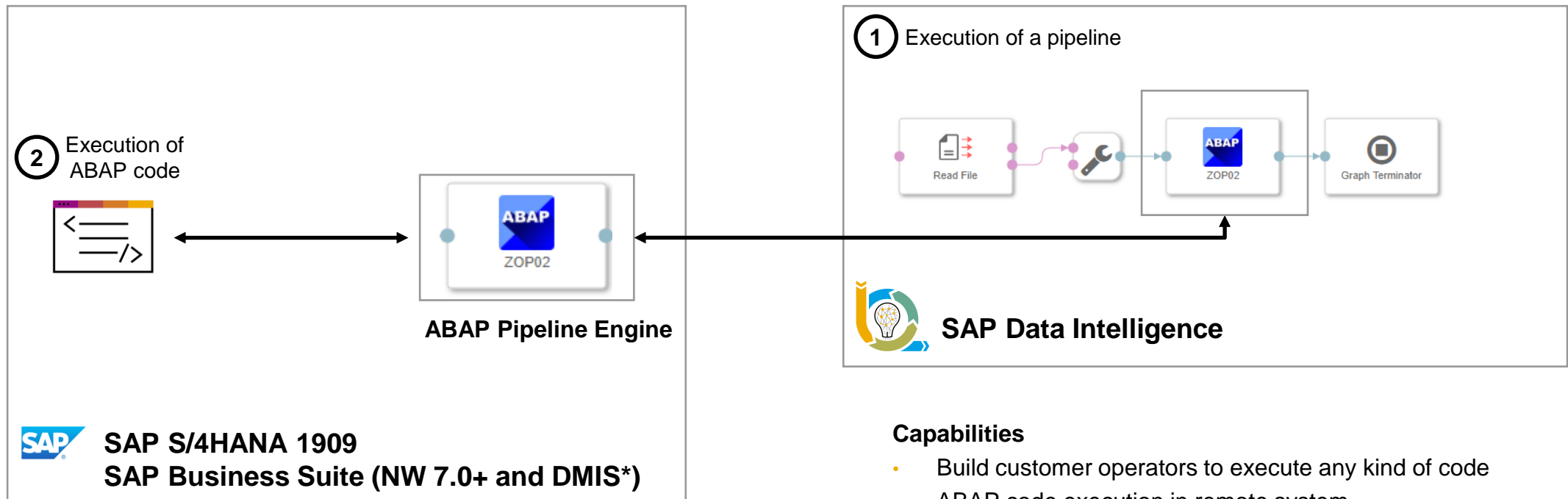


The **ABAP CDS READER** operator allows the replication of SAP ABAP CDS Views and customer ABAP CDS views in initial load and delta mode.

Custom ABAP Operator

Execute custom code and function modules

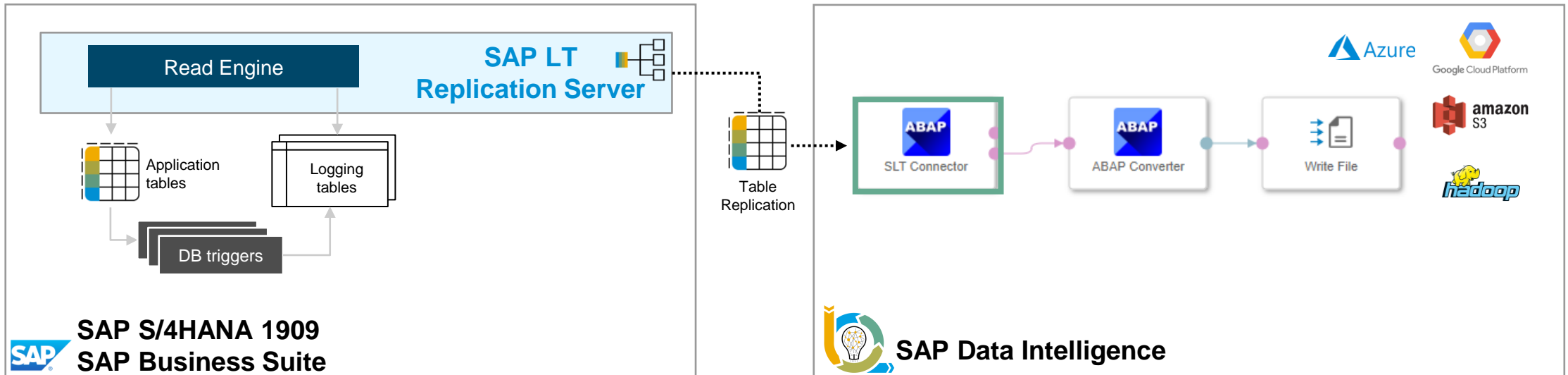
CUSTOM ABAP OPERATORS can be used to enhance the scope of a data-driven application. For example it is necessary to execute a function module within a pipeline to read data into SAP Data Intelligence, post information into an ABAP-based SAP system or trigger an execution in the remote system.



SLT Connector

Data provisioning for SAP S/4HANA and SAP Business Suite

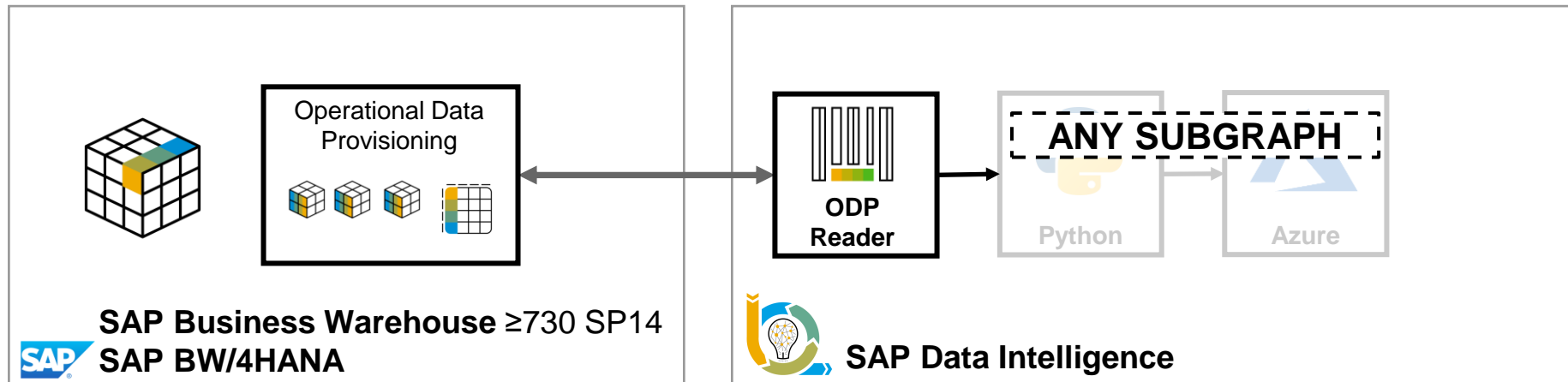
The **SLT CONNECTOR** operator establishes a communication to the remote ABAP System and consumes data (initial load and delta) via SAP LT Replication Server technology. This allows the consumption of business data directly within a Data Hub pipeline to leverage a tight integration between business data and big data.



ODP Reader – Overview

Data provisioning for SAP Business Warehouse systems

The use of the **ODP READER** allows to extract any data object supported by the Operational Data Provisioning framework (such as DSO). This operator is positioned to provision data out of SAP Business Warehouse systems to SAP Data Intelligence based on initial loads and/or delta replication.



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