

# Migration to SAP Business Warehouse on SAP HANA – SAP First Guidance

Public

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# Disclaimer

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**Please Note:** As the collaboration Platform has changed, and with these caused circumstances a lot of available Documents were retired. So mostly new links are included now in this Update to guarantee to access the up-to-date Informations.



# Agenda

- Updates
- Improvements
- Recommendations
- Conclusion





# Updates

- ▶ End To End Guide - Migration BW on SAP HANA
- ▶ SAP First Guidance
- ▶ SAP NetWeaver BW Application Lifecycle Management Page
- ▶ SAP NetWeaver BW Migration Cockpit for SAP HANA

# SAP BW Application Lifecycle Management (ALM)

<https://blogs.sap.com/2016/10/11/software-application-lifecycle-management-sap-bw/#bwmigration>



## Migration to SAP BW on SAP HANA

**New Version 1.7x available using the latest SUM/DMO Features and the new UI**

SAP First Guidance – Using the new DMO to migrate to BW on HANA





**Please Note that since Q1/2014 the Presentation – Migration to BW on HANA – First Guidance concludes all of these manual efforts now.**

- **BLOG:** Three things to know when migrating SAP BW on SAP HANA
- **BLOG:** 3 Major Reasons to Migrate To SAP BW 7.4 on SAP HANA
- **BLOG:** [What's the Difference between a Classic #SAPBW and #BWonHANA?](#)
- **BLOG:** Upgrade and Migration – SAP BW on SAP HANA
- **BLOG:** Migration of SAP Systems to SAP HANA
- **BLOG:** Where to find information on SAP BW on SAP HANA migrations
- **BLOG:** SAP BW Powered by SAP HANA Scale out – Best Practices
- **BLOG:** [The SAP HANA Reference for NetWeaver Basis Administrators](#)
- **BLOG:** [Migration to SAP HANA: Latest News about SAP Note 1775293](#)

# End-to-End Implementation Roadmap

<http://help.sap.com/nw74#section7>

## Technical Preparation

Task	More Information	
Change to the new Add-On product version of SAP SEM using the CISI process.	<ul style="list-style-type: none"><li>• <a href="#">SAP First Guidance - SEM/BW Configuration in Sol-Man 7.1</a>  (SCN)</li><li>• <a href="#">SAP Solution Manager: Special Cases in Installation and Upgrade</a>  -&gt; "chapter 4.4 Modeling of SAP SEM-BW, SAP ERECRUIT, LSOFE, and FINBASIS" (SMP)</li></ul>	
Separate ABAP and Java stack, considering the following: <ul style="list-style-type: none"><li>• Portal migration</li><li>• Isolating the ABAP instance</li><li>• Setting up Java with an upgrade or a fresh installation</li></ul> Tools: <ul style="list-style-type: none"><li>• Dual-Stack Split Tool</li><li>• SAPInst for Java deinstallation (for installations that are not supported by Dual-Stack Split)</li></ul>	Dual-Stack Split:	
	Task	More Information
	Use Near-Line Storage (NLS) to clean-up your system from historical read-only data prior to the migration to SAP HANA. Depending on your system being a Unicode system or not, you use the SAP Near-Line Storage solution based on SAP IQ (for Unicode systems) or the partner solution based on SAP IQ (for Non-Unicode systems).	<ul style="list-style-type: none"><li>• For SAP NetWeaver 7.4: <a href="#">Sybase IQ as Near-Line Storage Solution</a> (HP) For SAP EhP1 for SAP NetWeaver 7.3: <a href="#">Sybase IQ as a Near-Line Storage Solution</a></li><li>• <a href="#">SAP First Guidance - SAP-NLS Solution with Sybase IQ</a>  (SCN)</li><li>• <a href="#">Upgrade and Migration - BW on HANA</a>  -&gt; section "SAP near-line storage solution with Sybase IQ" (Blog on <a href="http://www.saphana.com">www.saphana.com</a>)</li></ul>

# SAP First Guidance Collection

<https://blogs.sap.com/2016/10/11/sap-first-guidance-collection-sap-bw-hana/>

## SAP First Guidance Collection for SAP BW on HANA

October 11, 2016 | 2,228 Views | Edit



Roland Kramer   
more by this author



Replacement of the retired “SAP HANA Cookbook”: [End-to-End Implementation Roadmap for SAP BW](#)

SAP First Guidance – SAP BW on SAP HANA Installation/Systemcopy/HANA Revisions



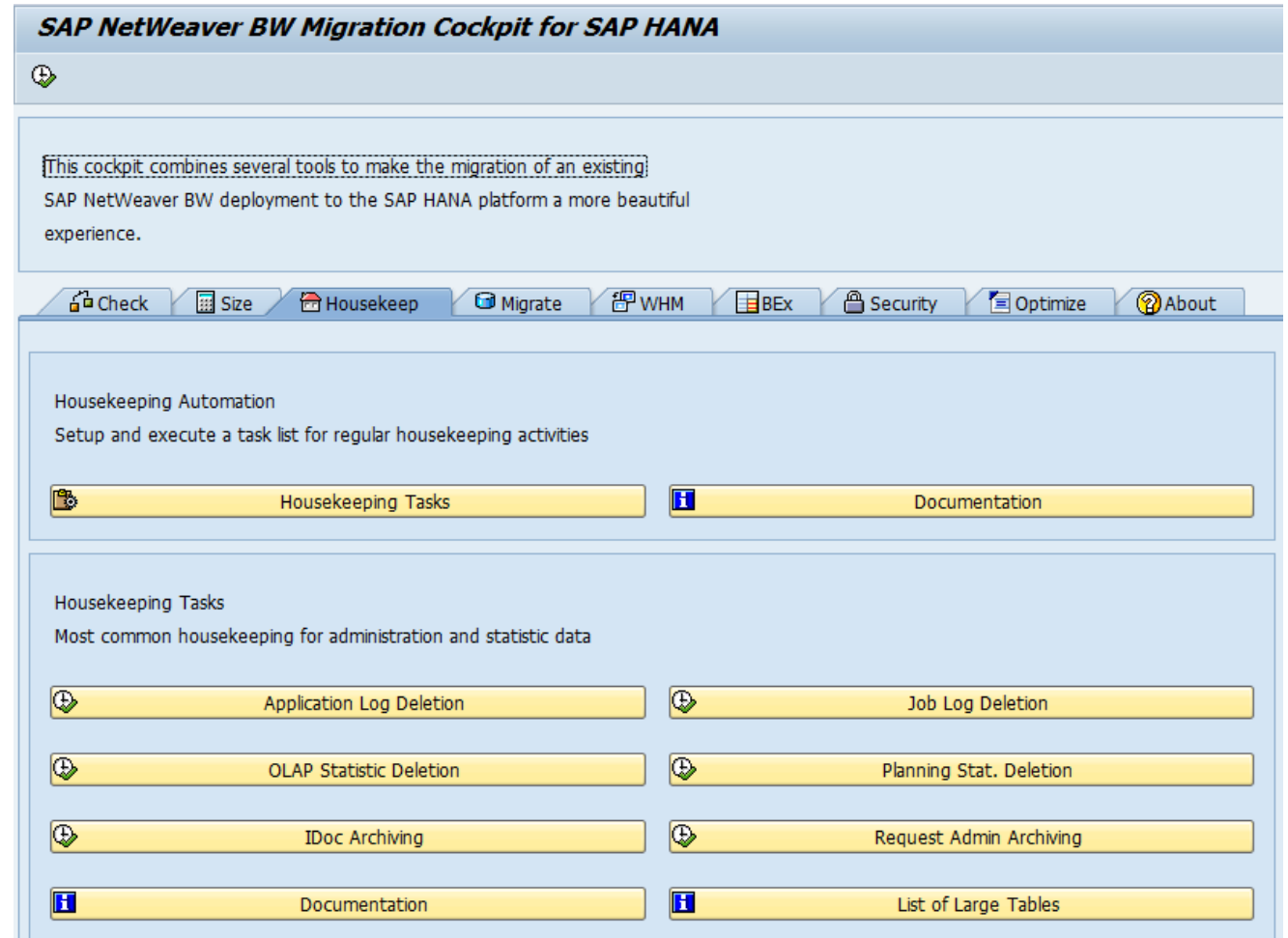
This Document also reflects the released SAP HANA SP/Revisions so far and also contains details for selected HANA Revisions and the usage together with SAP BW.

# SAP NetWeaver BW Migration Cockpit for SAP HANA

Note 1909597 - SAP NetWeaver BW Migration Cockpit for SAP HANA

There are many transactions and programs to help you configure BW on SAP HANA in an optimal way

The  
**SAP NetWeaver BW Migration Cockpit for SAP HANA**  
provides  
easy access  
to the  
most used and useful tools  
**ZBW\_HANA\_MIGRATION\_COCKPIT**





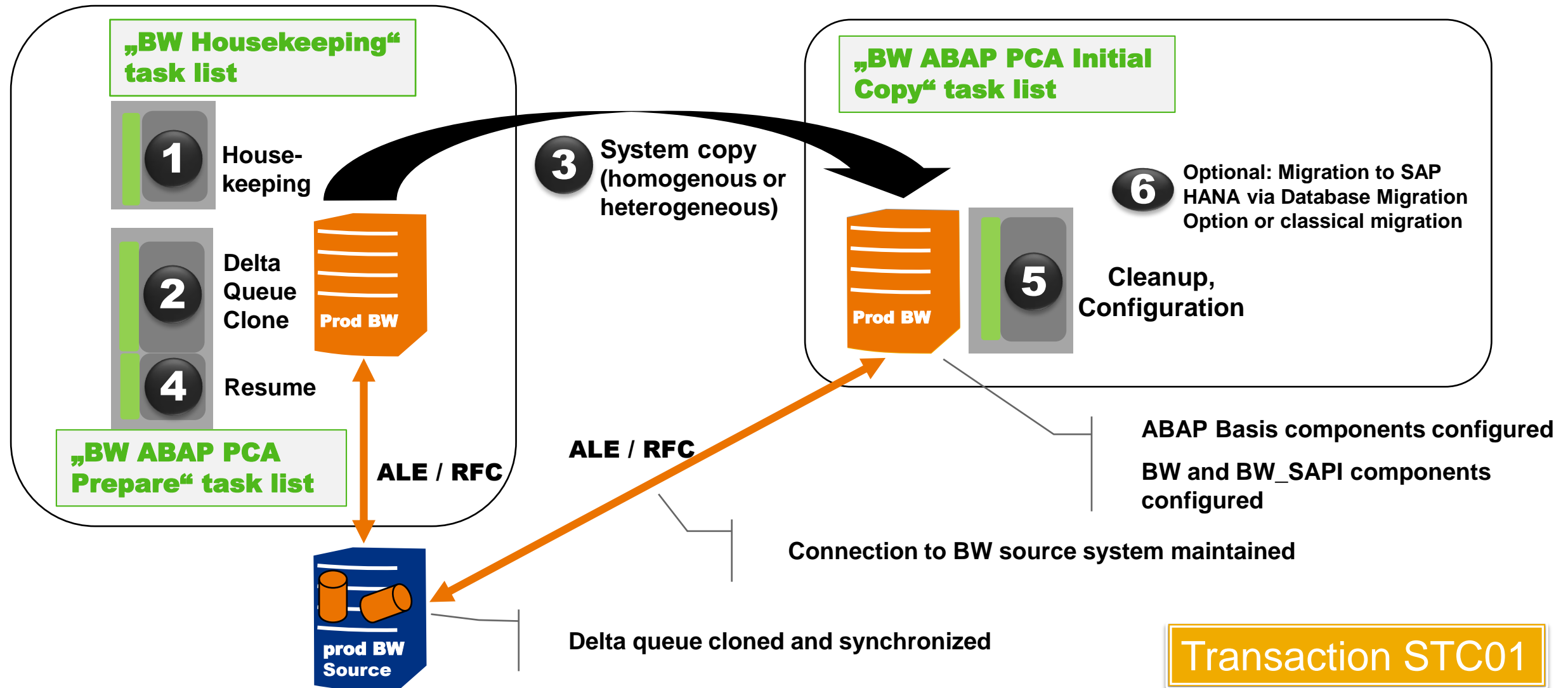


# Improvements

- ▶ Post Copy Automation for BW (BW-PCA)
- ▶ Upgrade/Migration Procedure
- ▶ database migration option (DMO) as part of software update manager (SUM)

# BW ABAP PCA for regular system copies and DMO

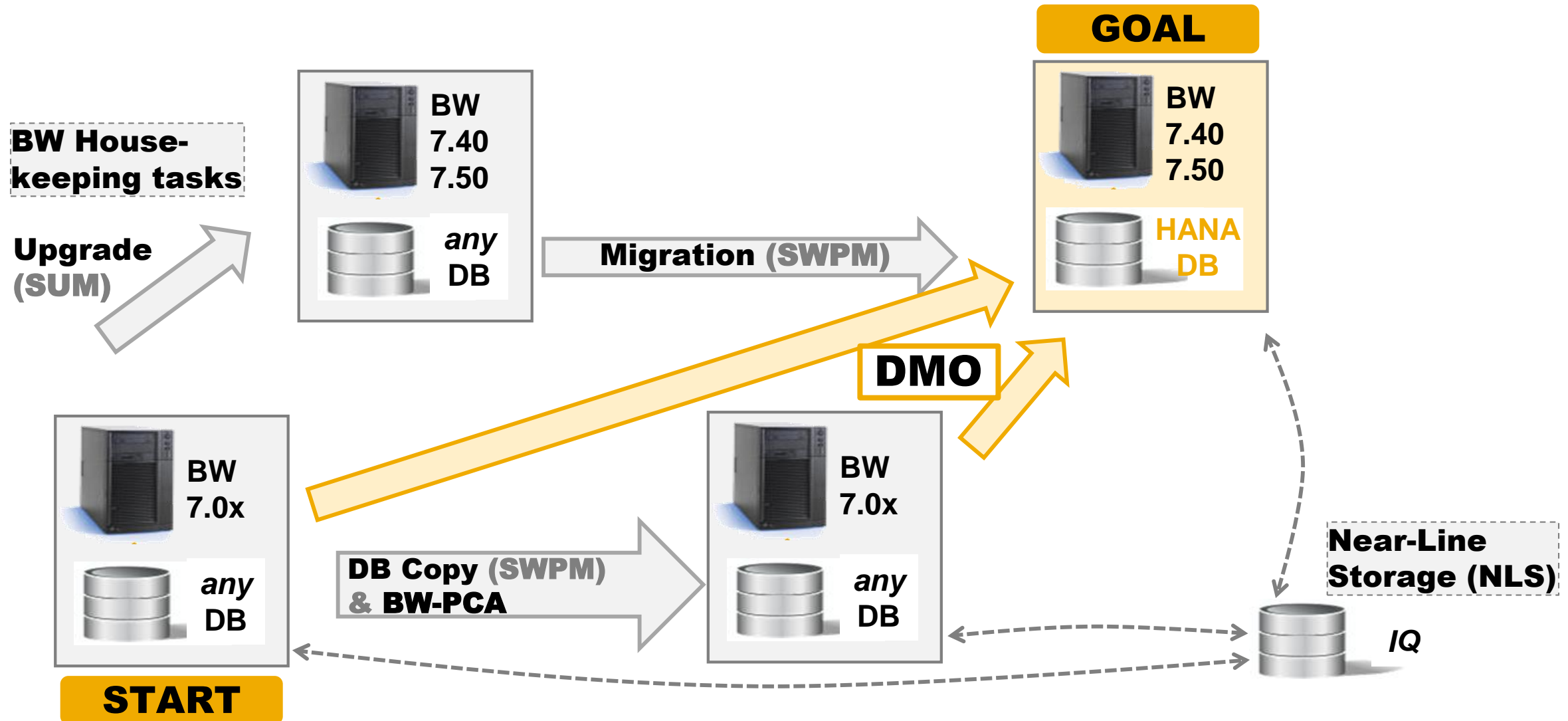
post copy automation (BW-PCA) as the minimized downtime enabler for DMO





# Migration BW on SAP HANA - classical and **new way**

Blog: [Upgrade and Migration - BW on HANA](#)



# Migration BW on SAP HANA on Premise

combining BW-PCA and DMO to keep the “production downtime minimized”



**SAP First Guidance available**



**BW House-keeping tasks**

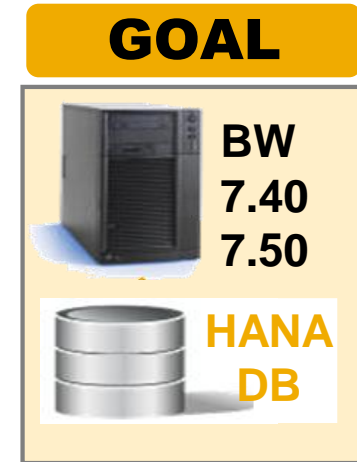


**START**

**DB Copy (SWPM)  
& BW-PCA**



**DMO**



**GOAL**



**Near-Line  
Storage (NLS)**

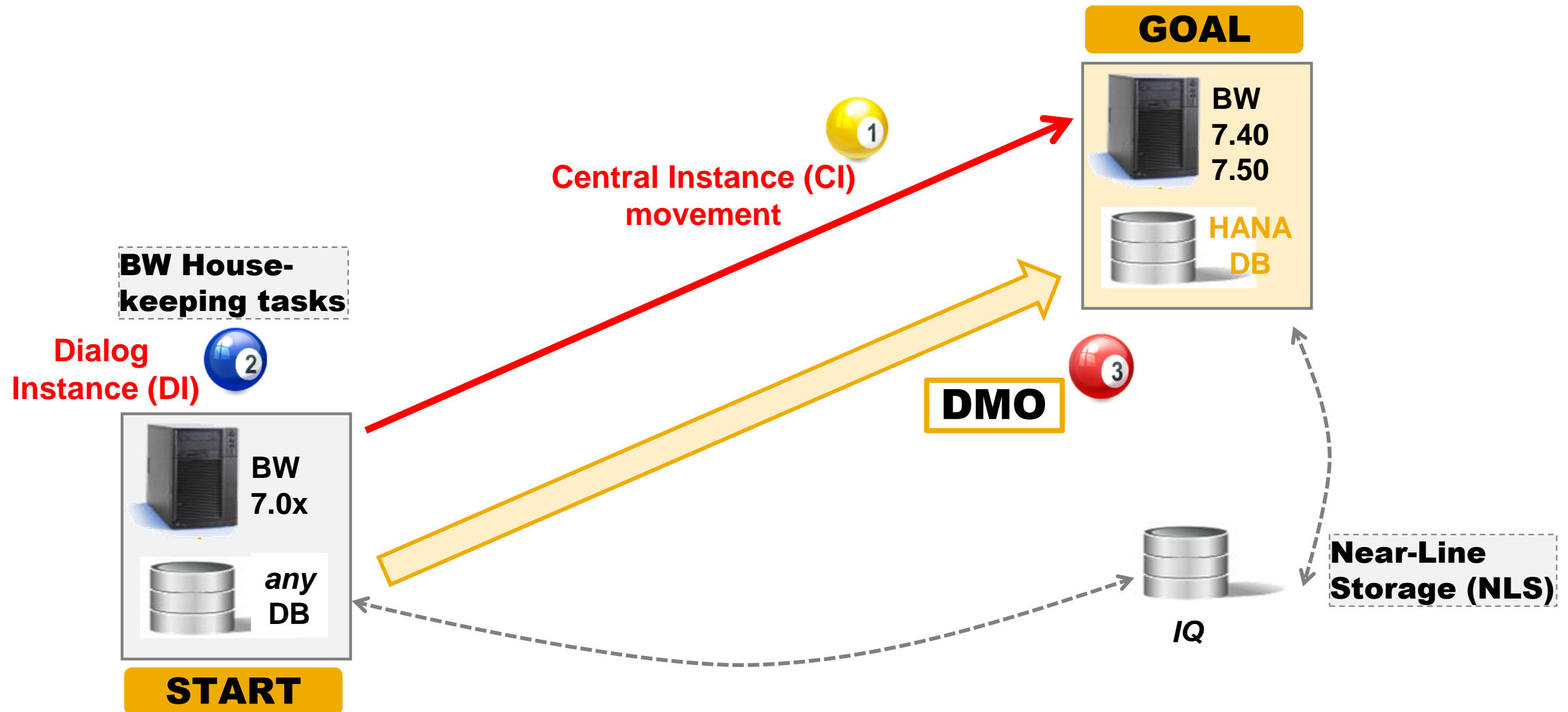


**IQ**



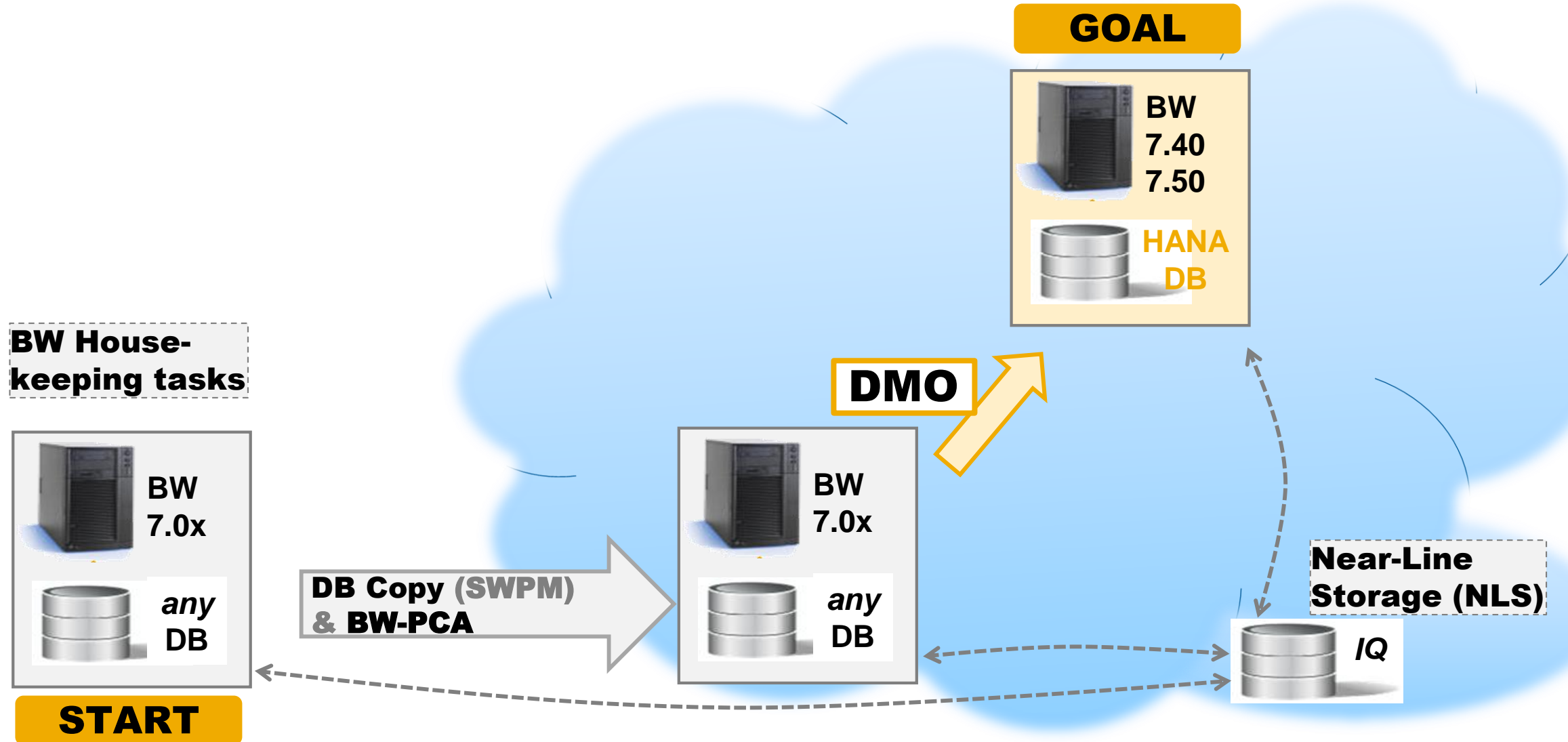
# Migration BW on SAP HANA - alternative

moving the primary application server to the HANA server to improve performance



# Migration BW on SAP HANA to HEC

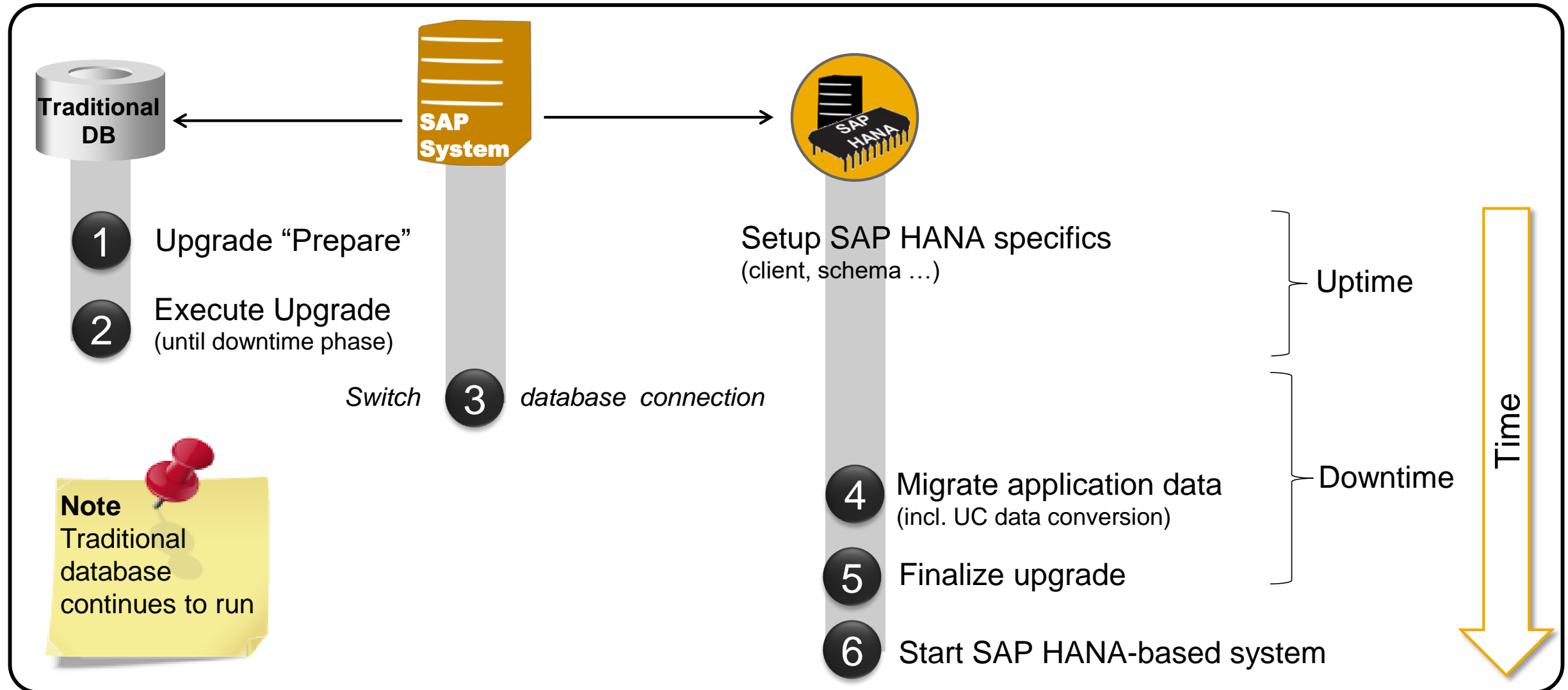
moving BW on Premise to the HANA Enterprise Cloud





# Database migration option (DMO) in the SUM Framework

one-step upgrade and migration with DMO - phases during the procedure



# What's new with the Upgrade to BW 7.4

## software update manager (SUM) vs. database migration option (DMO)

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- The database migration option (DMO) is an integrated part of the software update manager (SUM) and not a separate tool.
- The upgrade procedure differs from the upgrade part of the database migration option
  - A standard upgrade requires a main database upgrade, DMO not.
  - In a standard upgrade, you have manually to run the ASU toolbox, and/or the upgrade pre/post task lists, DMO includes them automatically.
- The (heterogeneous) migration procedure to SAP HANA differs from the heterogeneous system copy
  - The DMO procedure uses a UI5 browser based frontend based on the SAP host agent, SUM the classical JAVA based GUI frontend.
  - The start release can be already SAP NetWeaver 7.0 (SPS17/SP19). Also a lower start release 6.40 is available with SUM SP11.
  - The specific script SMIGR\_CREATE\_DDL run's already automatically in the source release.
  - The in-place migration (related to the PAS) uses parallel export/import (via pipes) and is not comparable to the SWPM procedure. The usage of manual created MigMon scripts is not supported and not compatible with the DMO procedure.
  - The DMO procedure call's a reduced version of the ASU toolbox and the pre/post task lists for upgrade and migration, SWPM not.
  - The DMO procedure calls the post program RS\_BW\_POST\_MIGRATION automatically, SWPM not.
  - For an optimized table splitting from the source database, also the SWPM calls the SUM/DMO procedure (no further enhancement in SWPM).
- A standard upgrade followed by a heterogeneous system copy to SAP HANA (BW based systems) is a different approach than the usage of the database migration option (upgrade with a in-place database migration)

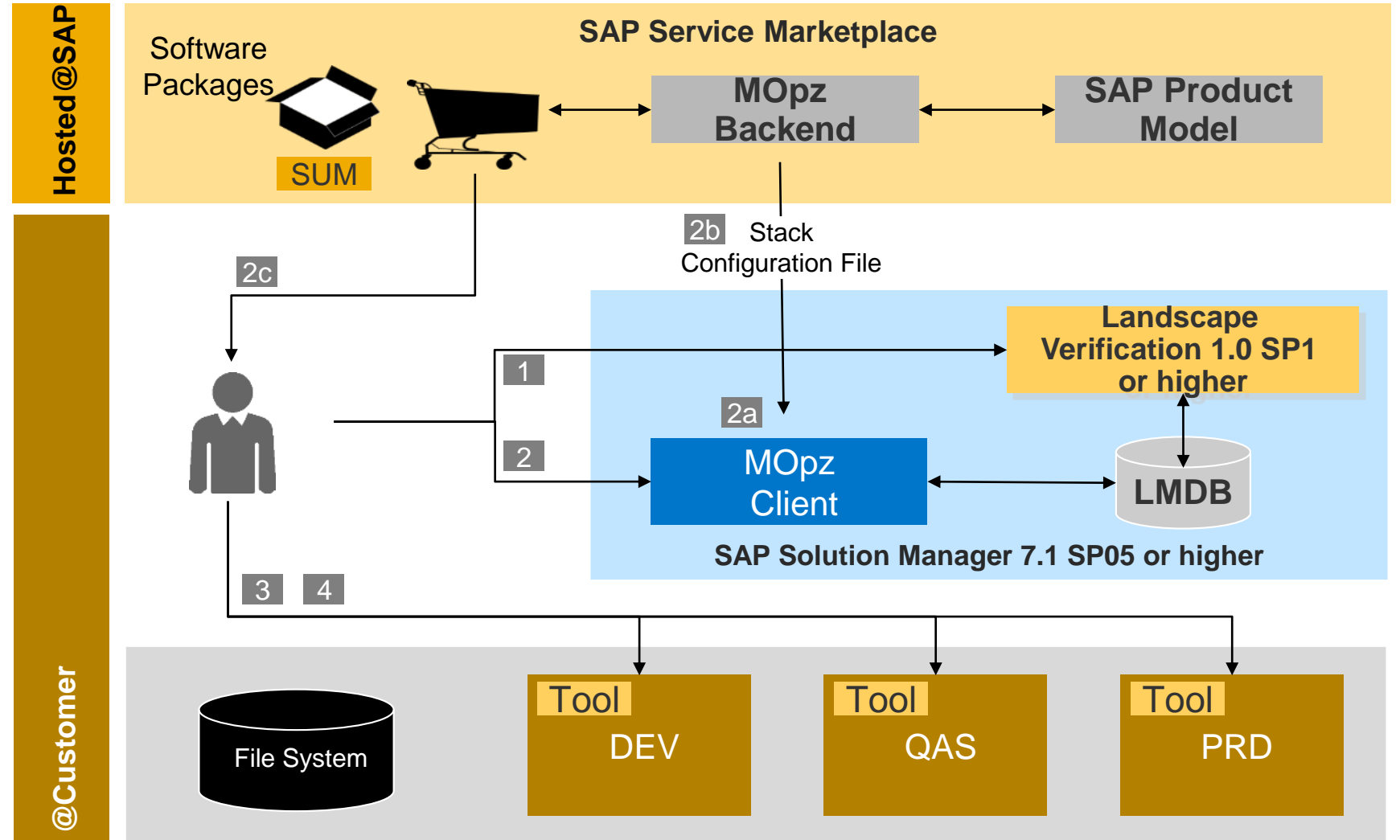


# What's new with the Upgrade to BW 7.4

Solution Manager pre requisites for the correct usage of the MOPZ



**SAP First Guidance  
available**



# What's new with the Upgrade to BW 7.4

Blog: [Good News - Easier Modeling of the SEM Add-On in Solution Manager](#)

Specify Product System and Product Instance

Assign Product Instances to the Product System

[1.] Product System Selection

Product System:  [N4S](#)

[2.] Product Instance Selection

Select By: \*

[3.] Product Instance - Search Result List

Product Version	Product Instance	Additional Information	Assigned	Pr...
EHP4 FOR SAP SEM 6.0 (add-on)	SEM		<input checked="" type="checkbox"/>	<input type="button" value="i"/>
EHP4 FOR SAP SEM 6.0 (add-on)	SEM NW7.3		<input type="checkbox"/>	<input type="button" value="i"/>

**Note**  
Repairs all kind  
of misconfigured  
backend errors!

Report *RLMDB\_DOWNLOAD\_INST\_SOFT\_INFO*

DOMAI\_ID

NAMESPAC

PS\_NAME

SAP GUI

Name	Date modified	Type	Size
File name: <input type="text" value="stack_for_cis.xml"/>			
Save as type: <input type="text" value="All Files (*.*)"/>			

# What's new with the upgrade of SAP BW 7.50

Introducing the new SAP Maintenance Planner – <http://scn.sap.com/docs/DOC-65243>

**SAP** Maintenance Planner  Roland Kramer ( I008817 ) ▾

[Home](#)

Transaction ID	Transaction Name	Transaction Status	Attachments	Created By	Creation Date
1000006905	MP_NEW_INST_20151030_B4H	Planning		I008817	30.10.2015 11:47:39

The diagram illustrates the SAP Maintenance Planner workflow as a circular process with four main steps:

- Schedule:** Schedule a system deployment of the calculated archives at a convenient date.
- Sync:** Synchronization of system data from SAP Solution Manager to SAP Support Portal.
- Verify:** Verify system description and correct errors.
- Plan:** Plan a software change on your system, including download of files.

The center of the diagram features the SAP logo and the text **B4H**.



# What's new with the upgrade of SAP BW 7.50

[https://apps.support.sap.com/sap\(bD1lbiZjPTAwMQ==\)/support/mp/index.html](https://apps.support.sap.com/sap(bD1lbiZjPTAwMQ==)/support/mp/index.html)

The screenshot displays the SAP Maintenance Planner web interface. At the top, the SAP logo is on the left, followed by the text 'Maintenance Planner'. A search bar with the placeholder 'Enter a search term ..' is in the center, and the user 'Roland Kramer ( I008817 )' is on the right. Below the header, a light blue banner contains a circular icon with a person. Underneath, a white bar shows the project name 'MP\_NEW\_INST\_20151030\_B4H' with an edit icon, and buttons for 'Save', 'Undo', 'Redo', 'Back', 'Next', and 'Logs'. A process flow bar follows with four steps: 'Define Change' (active, with a target icon), 'Select Files' (with a folder icon), 'Download Files' (with a shopping cart icon), and 'Complete' (with a document icon). Below this, a white bar reads 'Select Target Software Level to Install' with a 'Confirm Selection' button. The main content area shows a tree view where 'B4H' is selected. Under 'B4H', 'Install an SAP NETWEAVER system' is selected. Under this, 'SAP NETWEAVER 7.5' is selected, and its components are listed: 'Application Server ABAP' (unchecked), 'Business Intelligence' (checked), 'Developer Workplace' (unchecked), and 'Search and Classif.(TREX)' (unchecked). To the right of these options is a date dropdown menu showing '01 (11/2015)'. At the bottom, two radio buttons allow selecting 'SAP NETWEAVER 7.4' or 'SAP NETWEAVER 7.3'.

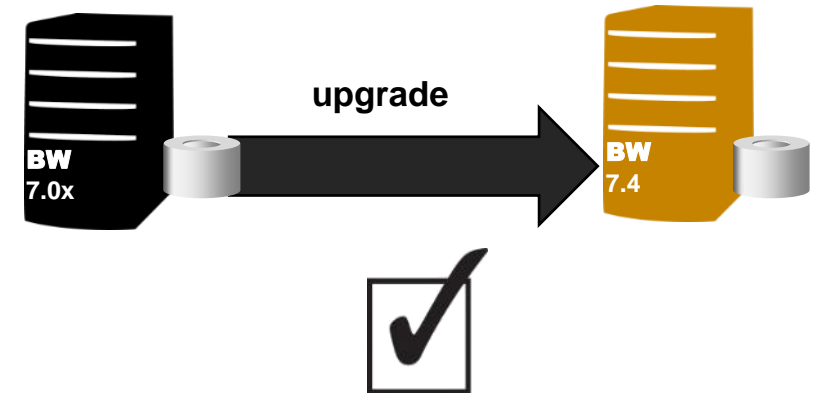
# General checks prior to the Upgrade

Reminder: the ASU toolbox/task list for BW is the first step for the upgrade prep.

NetWeaver BW

Object consistency

Cleaning old data





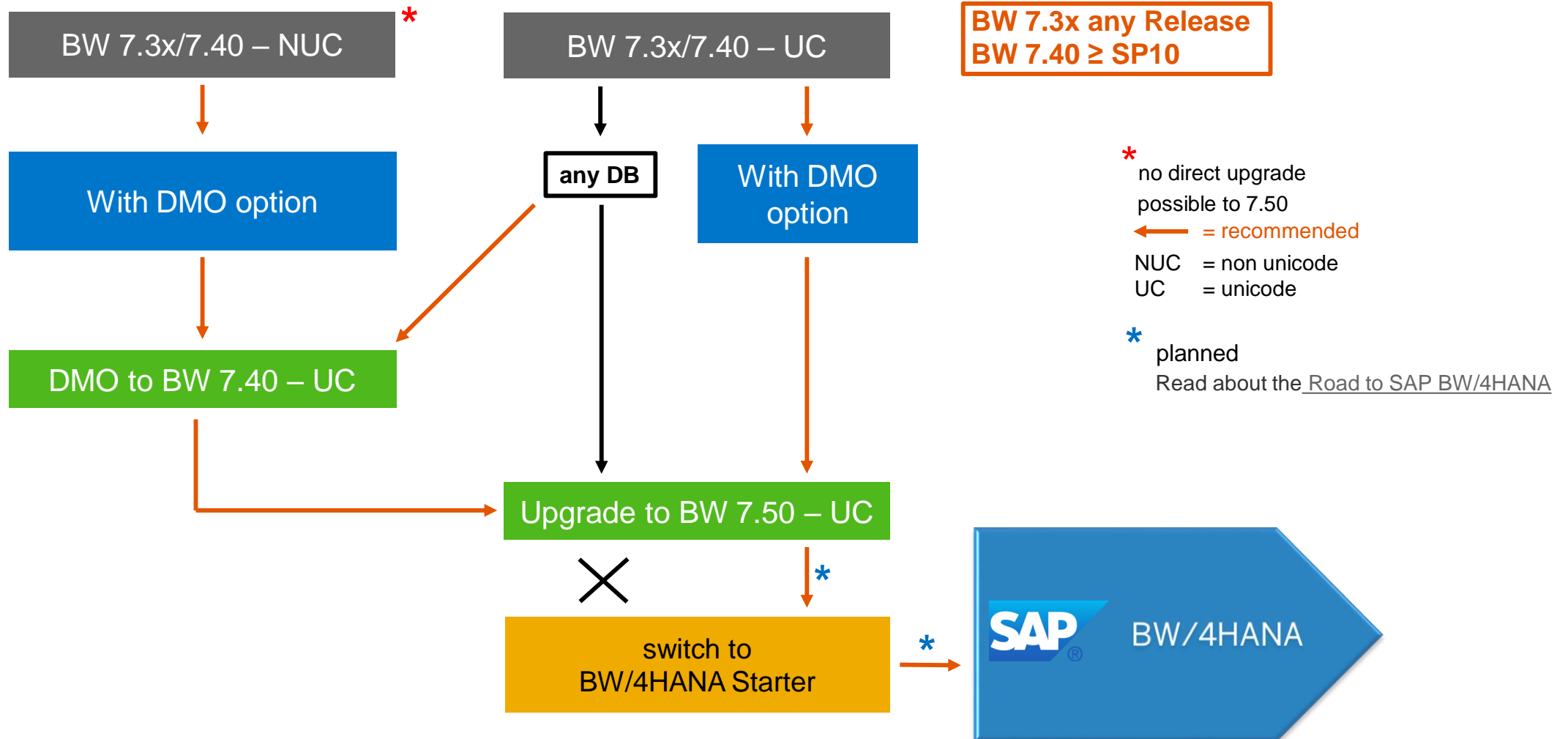
# Recommendations

- ▶ The Master Plan
- ▶ BW Housekeeping Tasklist/Pre-Post Upgrade/Migration Tasklist
- ▶ Data reallocation Process (DAP) with SAP-NLS Solution based on SAP Sybase IQ



# The Road to SAP BW/4HANA

Which Upgrade fits to the existing SAP BW environment – Release 7.3x/7.40



# The Master Plan: one tool: DMO, one target: BW on SAP HANA!

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## All current SAP NetWeaver Releases

- 7.0/7.01/7.02
- 7.3/7.31
- 7.40
- apply at least one SP or upgrade

Database migration option (DMO)

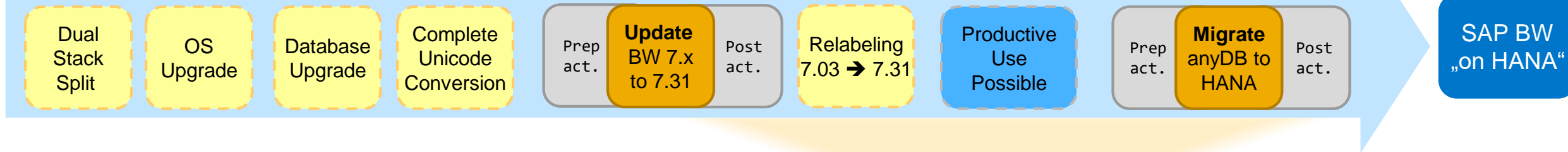
**BW 7.50 on SAP HANA**

**The Master Plan!**

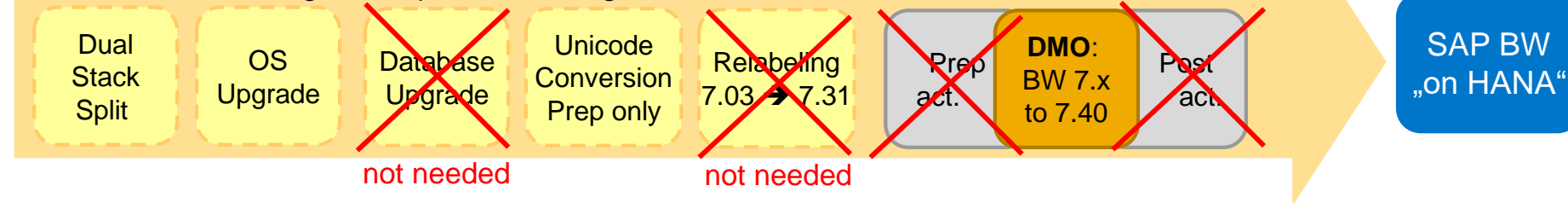
# Comparison of the Standard and New Migration Processes

new option also reduces time by eliminating prep/post activities

## Old/classical migration to SAP HANA



## With DMO now Integrated update and migration to SAP HANA



**SAP First Guidance**  
**available**

Legend

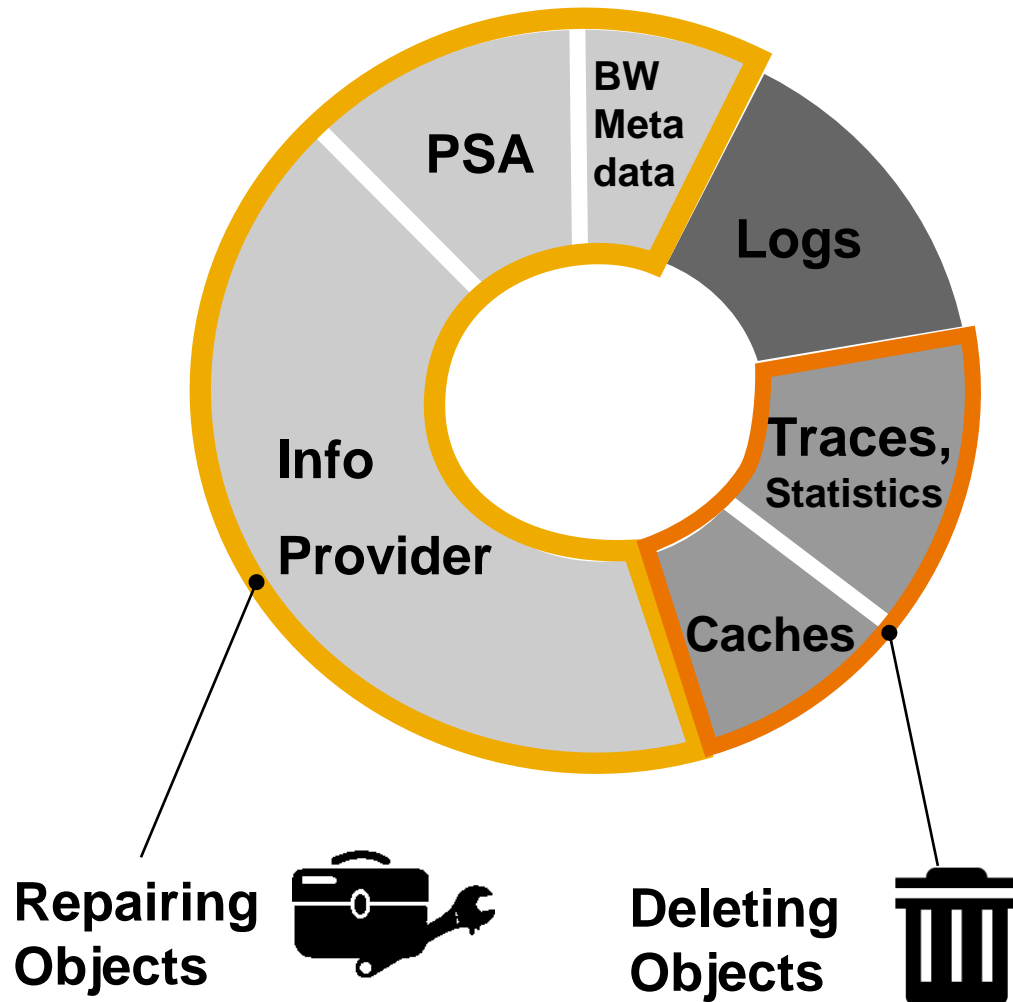


\* - may be a necessary step –  
depends on customer situation, start release



# BW Housekeeping and Upgrade Before Tasklists

challenges with growing number of Data objects in SAP NetWeaver BW



## Challenges:

- Data Objects in BW system grow over time
- Some data objects get inconsistent and corrupted
- BW systems become too large with outdated data
- System copy with inconsistent and outdated data will result in inconsistencies

## Solutions:











- Clean-up system regularly (e.g. monthly)
- Repair inconsistent data objects regularly
- Housekeeping especially before system copy
- Delivered with SAP Note 1829728

Transaction STC01


# BW Housekeeping and Upgrade Before Tasklist


































<https://blogs.sap.com/2016/10/11/software-application-lifecycle-management-sap-bw/#bwhousekeeping>

### Maintain Task List Run SAP\_BW\_HOUSEKEEPING\_20130919133906













Task List


Task List Run 



































































E	C...	S...	L...	Autom. Phase	Comp.	Task Description
<input checked="" type="checkbox"/>				Repair	BW	Repairs indices on Info
<input type="checkbox"/>				Repair	BW	Re-assign requests wri
<input type="checkbox"/>				Repair	BW	Ensure request consist
<input type="checkbox"/>				Repair	BW	Ensure partitioned tab
<input type="checkbox"/>				Repair	BW	Verify DataSource seg
<input type="checkbox"/>				Cleanup	BW	Deletes the entries th
<input type="checkbox"/>				Cleanup	BW	Reorganize and delete
<input type="checkbox"/>				Cleanup	BW	This program deletes f
<input type="checkbox"/>				Cleanup	BW	This program deletes f
<input type="checkbox"/>				Repair	BW	Checks BW metadata
<input checked="" type="checkbox"/>				Postprocessing	BW	Clear all OLAP Cache p

### Maintain Task List Run SAP\_BW\_BEFORE\_UPGRADE\_20130919135523



Task List

Task List Run 

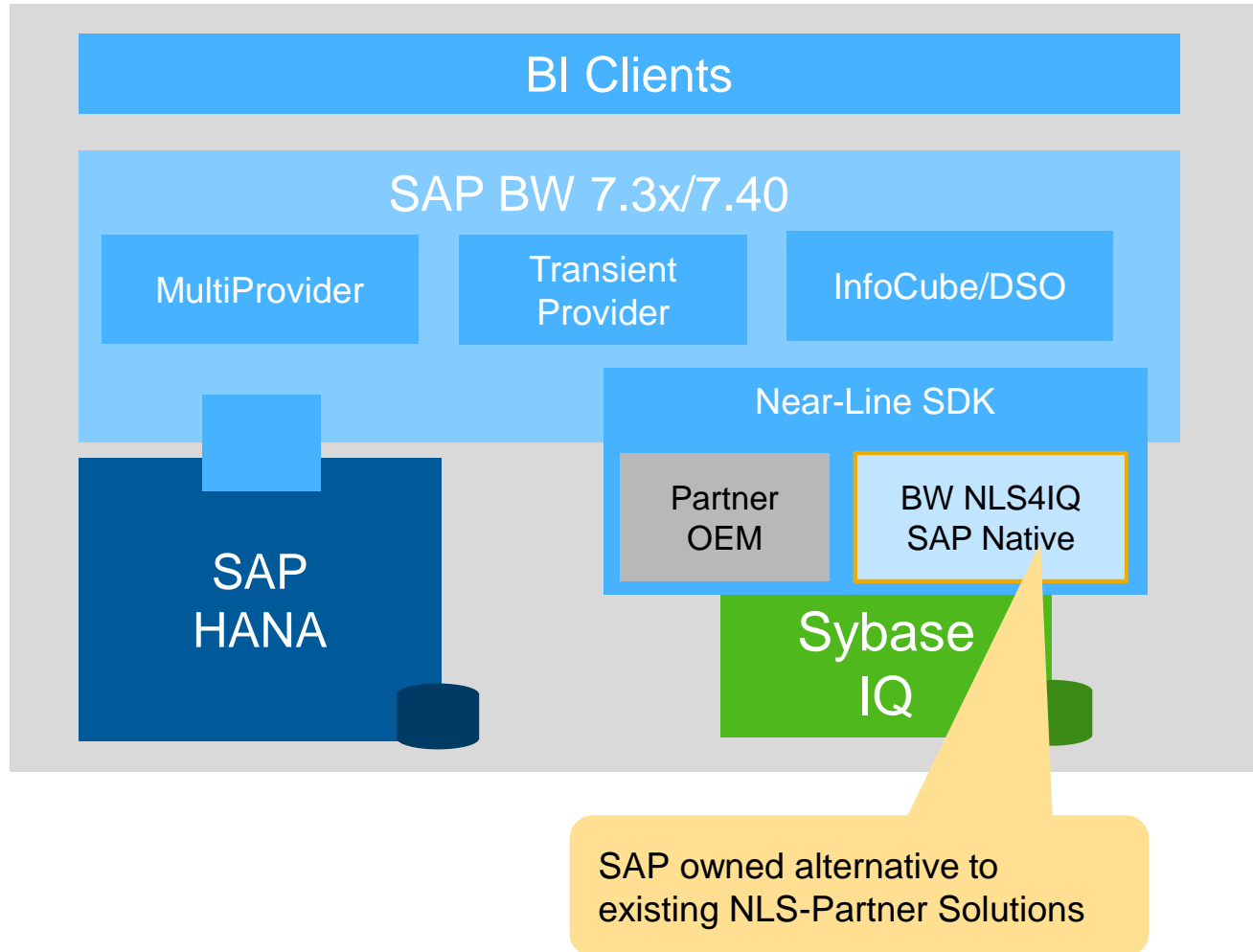
E	C...	S...	L...	Phase	Comp.	Task Description	H	P...	Parameter Description
<input checked="" type="checkbox"/>				Repair	BW	Repairs indices on InfoCube fact table(s) at the Data Dictionary level			
<input type="checkbox"/>				Repair	BW	Re-assign requests written into the incorrect PSA partition			
<input type="checkbox"/>				Repair	BW	Ensure request consistencies throughout the PSA landscape			
<input type="checkbox"/>				Repair	BW	Ensure partitioned tables are correctly indexed for the PSA			
<input type="checkbox"/>				Repair	BW	Checks BW metadata with regard to the DDIC			
<input type="checkbox"/>				Cleanup	BW	Deletes the entries that are no longer required in table RSIXWWW.			
<input type="checkbox"/>				Cleanup	BW	Reorganize and delete bookmark IDs and view IDs			
<input type="checkbox"/>				Cleanup	BW	This program deletes RSTT traces			
<input type="checkbox"/>				Cleanup	BW	This program deletes BW statistical data			
<input checked="" type="checkbox"/>				Cleanup	BW	Delete Aggregate data via deactivation			
<input checked="" type="checkbox"/>				Prepare	BW	Confirm we are at the User Lock stage of an Upgrade/Migration			
<input checked="" type="checkbox"/>				Prepare	BW	Confirm BEX-Request is released and removed from table RSADMINA			
<input checked="" type="checkbox"/>				Prepare	BW	Unset flags in order to skip replication and generation or source-dependent objects			
<input checked="" type="checkbox"/>				Prepare	BW	Stop RDA Daemons and Process Chains			
<input checked="" type="checkbox"/>				Prepare	BW	Deletes temporary/interim data used for Analysis Process Design			
<input checked="" type="checkbox"/>				Prepare	BW	Deletes temporary BW tables			
<input checked="" type="checkbox"/>				Prepare	BW	Deletes entries from the DDNT and DDNF tables			



**SAP First Guidance**  
**available**

# SAP BW on HANA and SAP IQ

## Near-Line Storage (SAP-NLS) Architecture - Overview



An SAP - owned BW NLS implementation for Sybase IQ offers a fully integrated solution from one provider

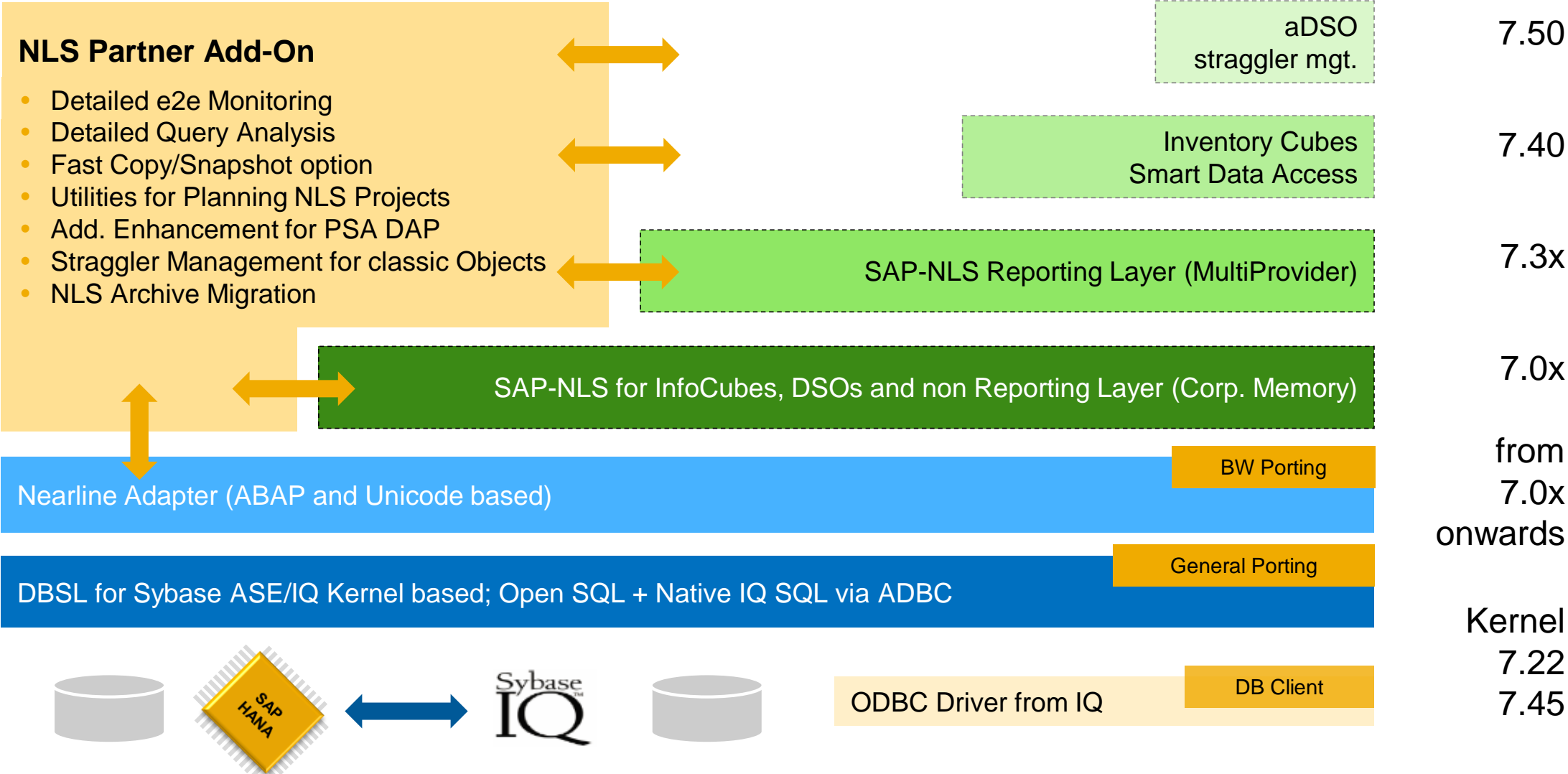
### **Main aspects:**

- Deliver an ABAP-based implementation of the BW NLS interfaces
- Deliver a Sybase IQ DBSL 'light' that covers all the needs of the above-mentioned NLS implementation
- Sybase IQ to deliver reliable, high-performance execution of the DBSL driven loads and queries
- Availability since Q2/2013



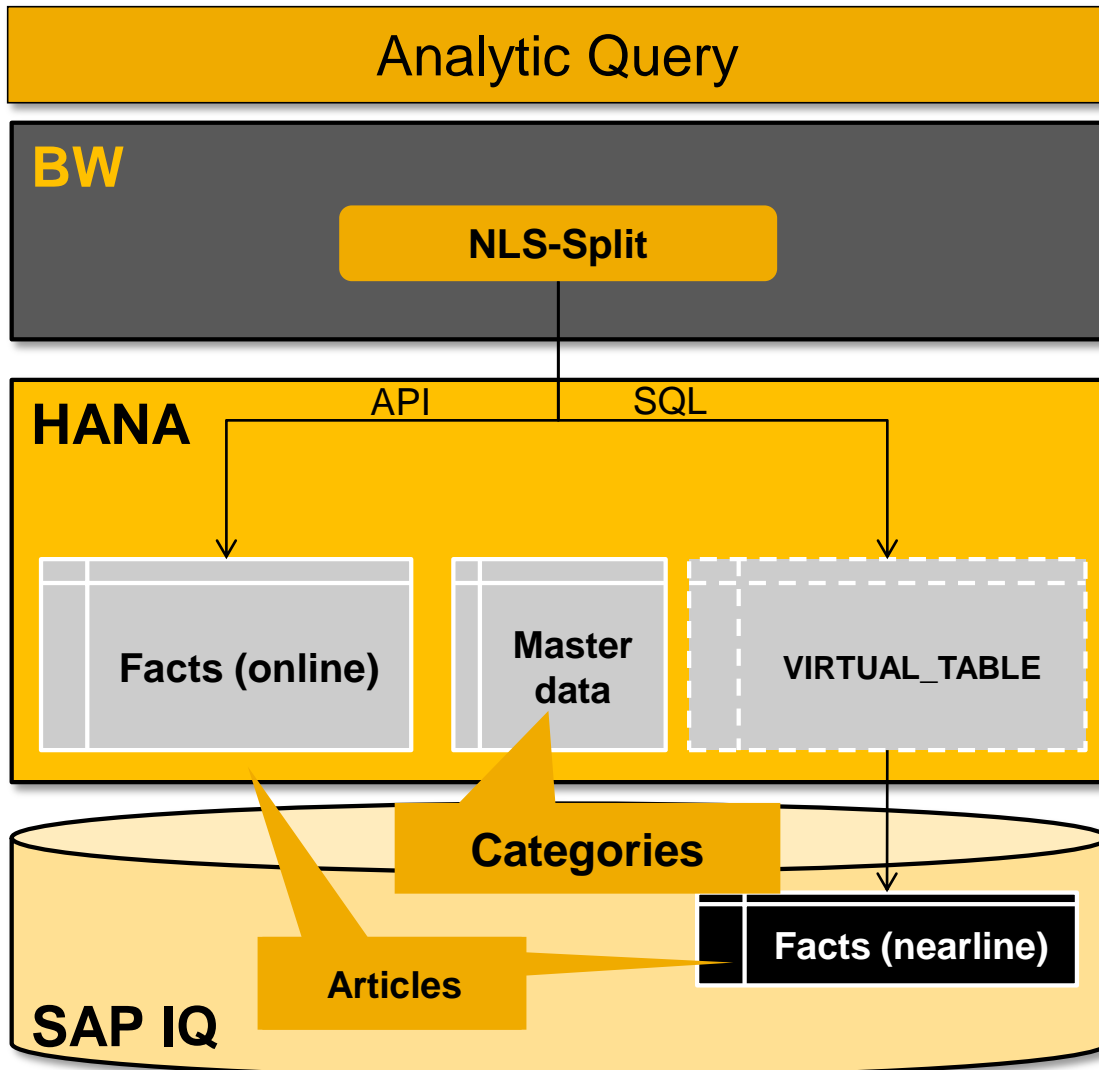
# The SAP-NLS Implementation – Release Capabilities

Together with NLS Partner Add-On's and SAP



# HANA Smart Data Access for BW NLS with SAP IQ

Available with SAP BW 7.4, SP8 (Q3/2014) on HANA

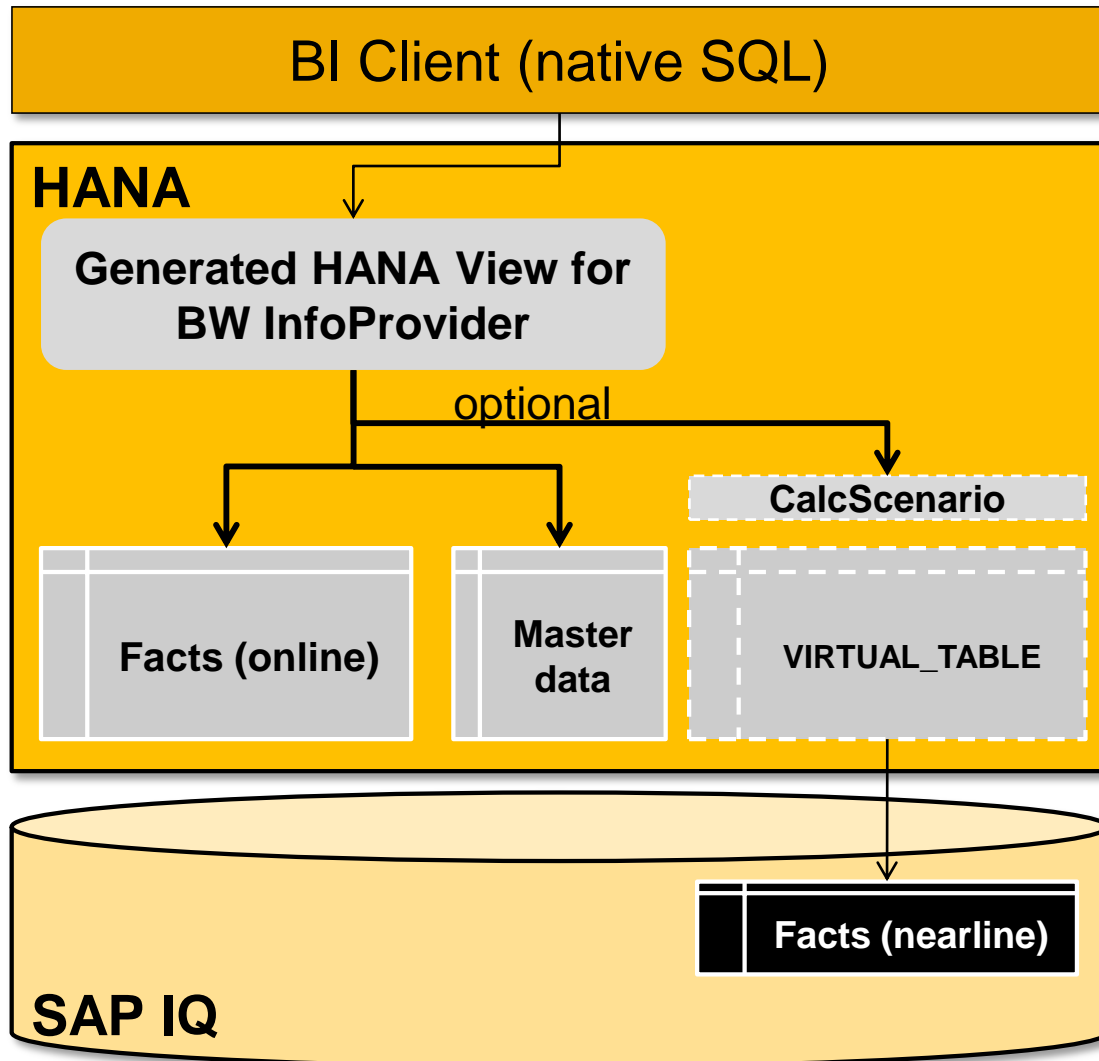


- **Query Access to NLS part of InfoProvider can leverage SDA (if NLS uses SAP Sybase IQ for NLS)**
- **Optimized Query execution plan (Semi-JOIN), Filter push-down, ...**
- **Significantly better Query performance for many NLS queries**
  - especially Queries using Hierarchies or Nav. Attributes can run 100 times faster

**Example from Retail:**  
**Aggregation of articles in categories as Nav. Attributes**

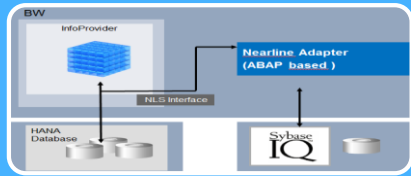
# BW NLS data for External HANA Views

Available with SAP BW 7.4, SP8 (Q3/2014) on HANA



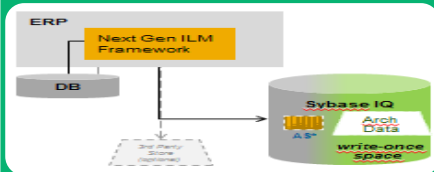
- **Generated HANA Views for InfoProvider (new with BW7.4 SP05)**
- **HANA Views can (optionally) include NLS part as UNION between online and nearline facts**
- **NLS part is available for external consumption, e.g. 3<sup>rd</sup> Party Frontend's**
- **NLS part is always accessed**

# SAP IQ is the preferred solution for warm and cold data archiving capabilities for SAP BW, Business Suite, and HANA



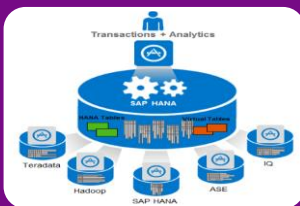
## NLS (Near Line Store) for SAP BW

- Optimized NLS data transfer throughput using IQ Loader functionality
- SAP HANA and IQ share the same columnar paradigm, and similar data compression rates
- Ready for large data volumes
- Suitable for ad-hoc queries with long history
- Minimum administration effort



## ILM for SAP Business Suite

- Fast archive index read w/o additional secondary DB indexes
- Increased search capabilities
- Faster archive I/O – fewer layers (software, network, storage hardware)
- ERP archive files as well as archive indexes stored in SAP IQ



## Warm archive for HANA using smart data access (SDA)

- Using SDA, HANA customers can access IQ as a federated store
- Store warm data in IQ, and real time data in HANA
- Push query processing down to IQ



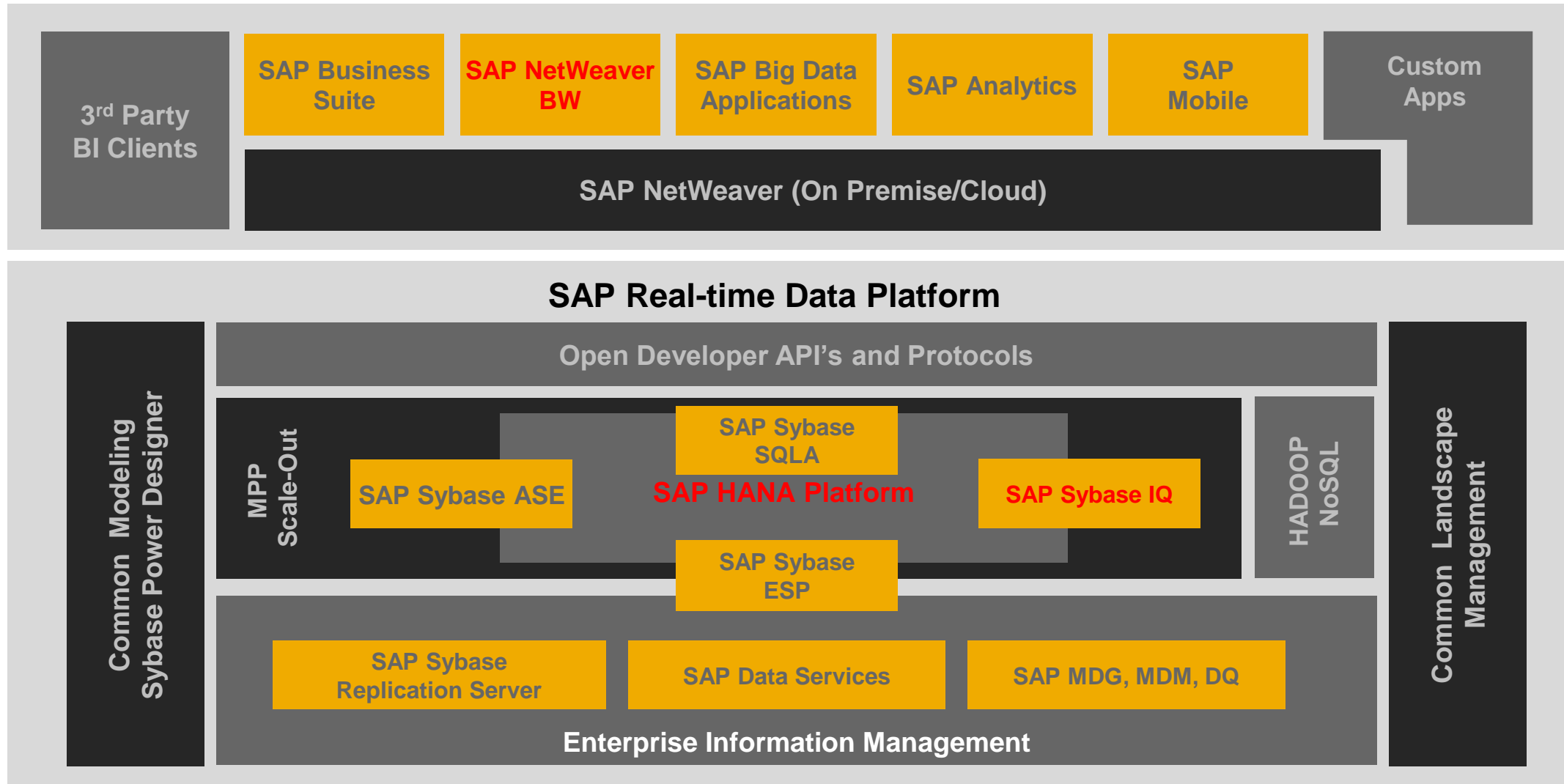


# Conclusion

- ▶ SAP Realtime Database Platform
- ▶ SAP BW on SAP HANA

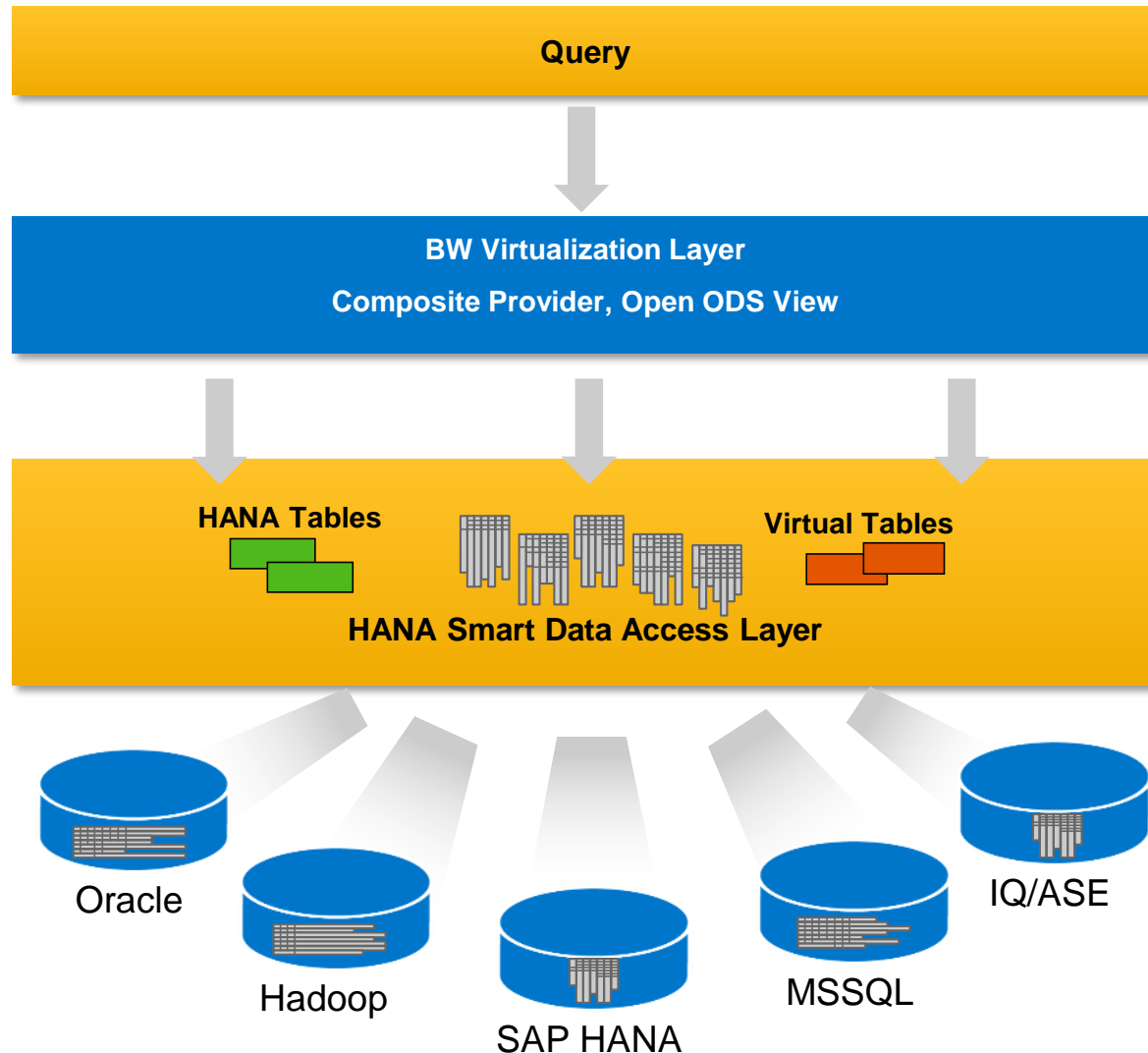
# SAP Real-time Data Platform

optimized for all big data applications



# SAP HANA Smart Data Access

data virtualization for on-premise and hybrid cloud environments



## Enhanced Business Flexibility by providing “the logical EDW”

### Data Federation in diverse EDW landscapes

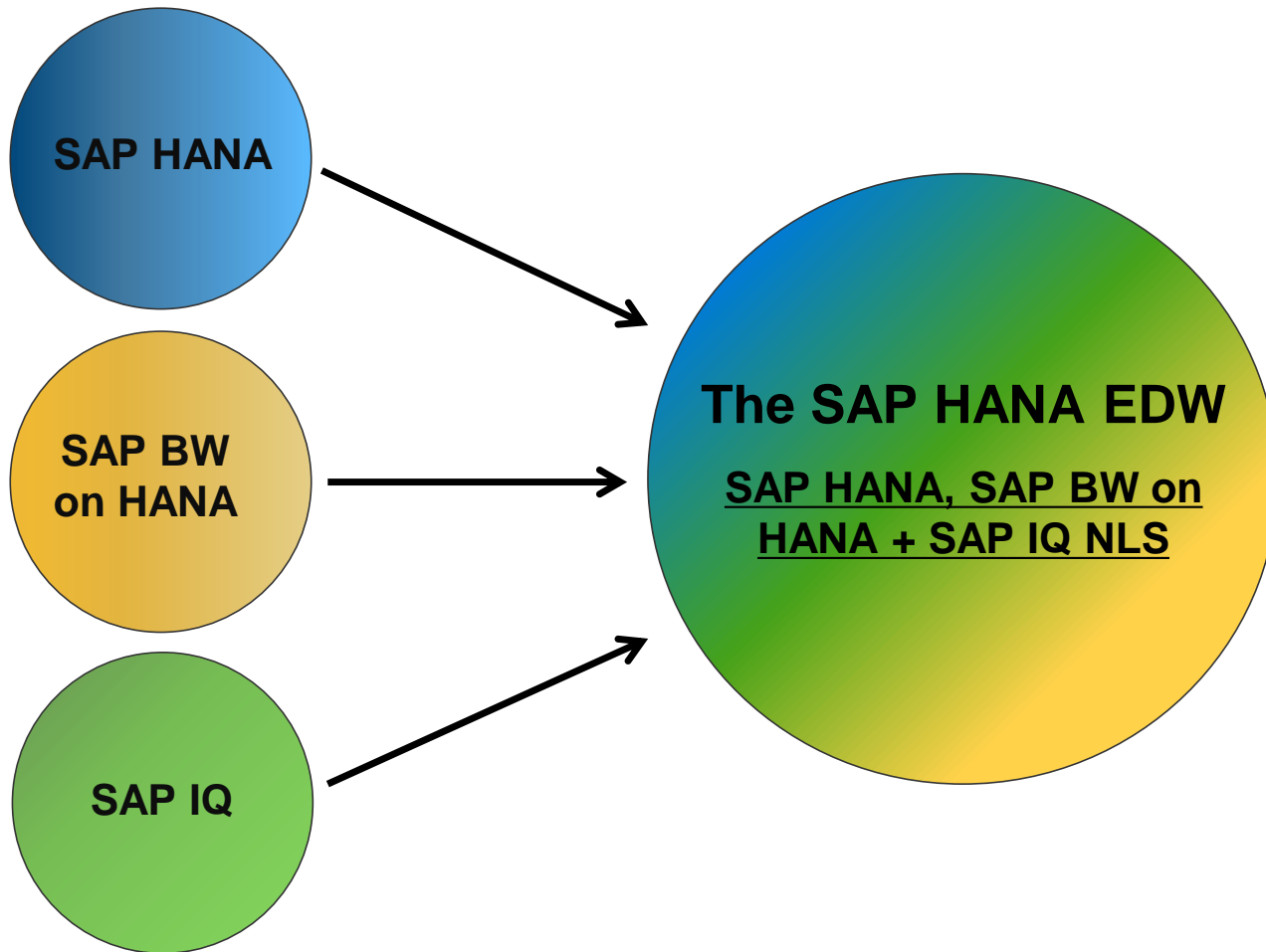
- Smart data access – read access to relational and non-relational sources via ODBC
- Enables access to remote data access just like “local” table
- Supports data location agnostic development
- No special syntax to access heterogeneous data sources
- BW based Analytic Services on external data

### Scenario

- Make other DWHs transparent to HANA
- Non-disruptive evolution from virtual table to persistent structure by establishing ETL without major effort
- Consolidating / rationalizing the DWH landscape
- Consumption of HANA datamart scenarios from second HANA database

# Conclusion – combining the strengths of the different worlds

Blog: 3 Major Reasons To Migrate To SAP BW 7.4 on SAP HANA - SAP BW EDW

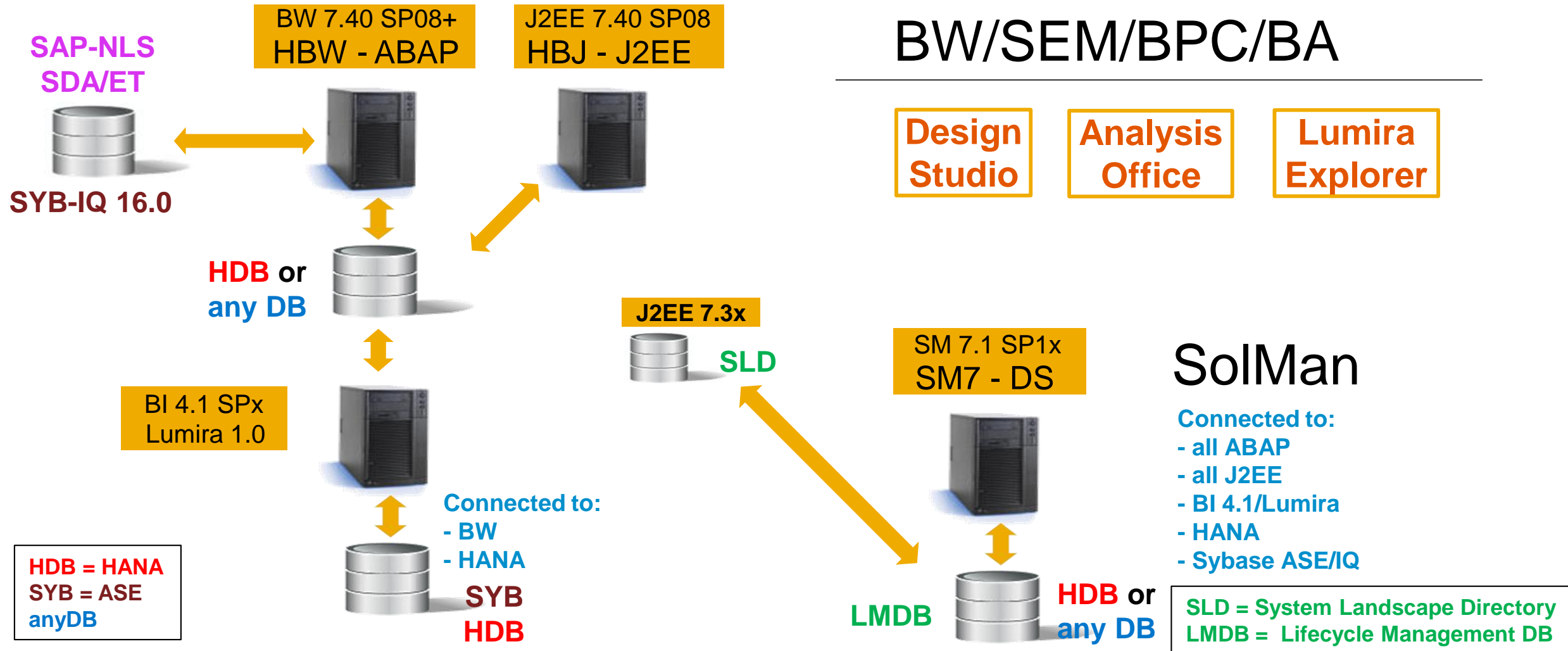


- SAP HANA Agile Data Mart scenarios and SAP NetWeaver BW powered by HANA perfectly address the needs of, Data Marts and Central (E)DW
- SAP Sybase IQ is SAP's recommended NLS for SAP NetWeaver BW powered by SAP HANA and is capable of storing terabytes to petabytes of structured & unstructured data
- Mature customer architectures will leverage the capabilities of all three components where appropriate



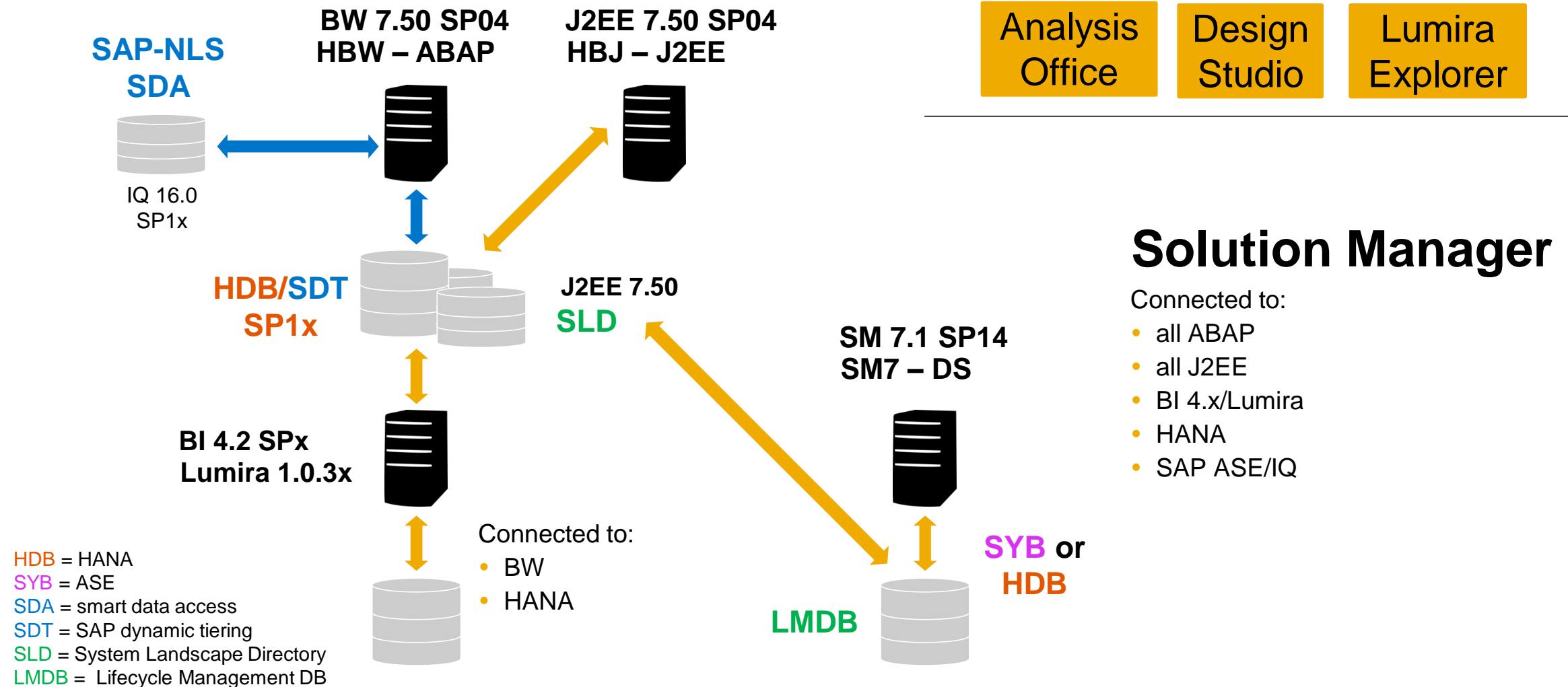
# SAP Business Intelligence Architecture

based on SAP BW 7.40 and additional components



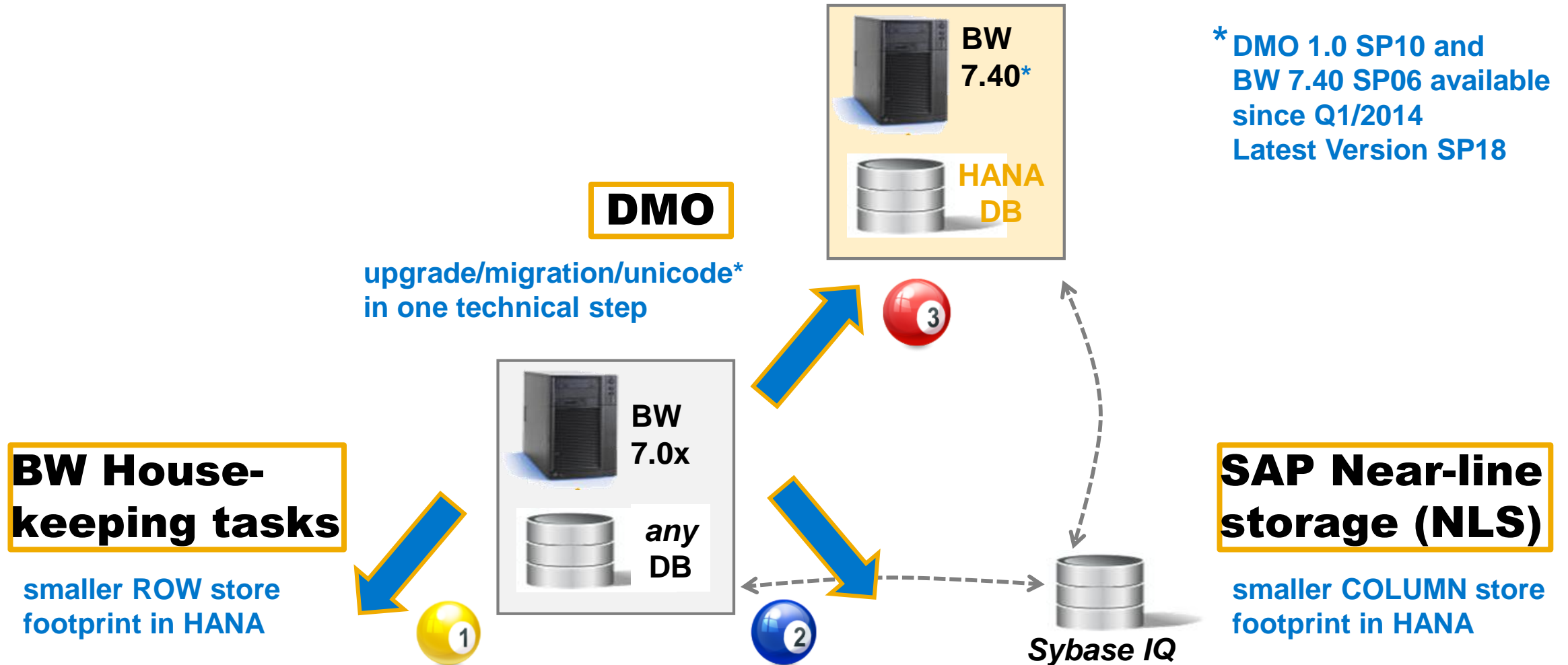
# SAP Business Intelligence Architecture

Based on SAP BW 7.50, HANA, IQ and additional components



# Three things to know – Migration BW on HANA

Blog: Three things to know when migrating to SAP BW on HANA



## Conclusion: SAP BW? - three things to know ...

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**1**

Three Things to know when migration BW on HANA

Blog: Three Things to Know when Migrating SAP NetWeaver BW on SAP HANA

**2**

The Upgrade from 7.0x to 7.50 is possible directly/one step including SEM

Blog: Good News - Easier Modeling of the SEM Add-On in Solution Manager

**3**

The SAP BW 7.40/7.50 Released (on HANA)

Our Customers know the (Business) Value - Features per Release 7.40/7.50



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