

SAP Product Road Map

SAP Business Warehouse

Road Map Revision: 2015.04.21

Customer



Template Revision: 20150318 v4.0

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Introduction to product road maps

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.

Table of contents

Product Overview

- 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 Business Warehouse

Product description (1)

SAP Business Warehouse (SAP BW) offers a complete solution for all enterprise data warehouse needs. It tightly integrates data warehousing capabilities on a comprehensive and scalable platform while leveraging best practices to enable the provisioning of all information needed to drive business intelligence predicated on a single version of the truth...

- The vast majority of customers have a central EDW, harmonizing many source systems
- Embedded into mission critical business processes



SAP Business Warehouse

Product description (2)

Enterprise data warehousing (EDW) – why

- Consolidate the data across the enterprise to get a consistent and agreed view on your data -> “having data is a waste of time when you can't agree on an interpretation”
- Combine SAP and other sources together
- Standardized data models on corporate information
- Supporting decision making on all organizational levels

EDWs require a database plus an EDW application

EDW with SAP Business Warehouse (BW)

- Highly integrated tools for modeling, monitoring and managing the EDW
- Open for SAP and non-SAP systems
- Agile data modeling using BW workspaces
- Runs on top of SAP HANA and other RDBMS
- Easy consumption of HANA data mart scenarios via virtualized data access

EDW with custom built application

- High development and maintenance efforts
- Variety of tools with lacking integration



SAP Business Warehouse

Value propositions

Simplification with SAP BW 7.4 : What is different with SAP BW powered by SAP HANA?

Data intensive functions are pushed down from SAP BW to SAP HANA

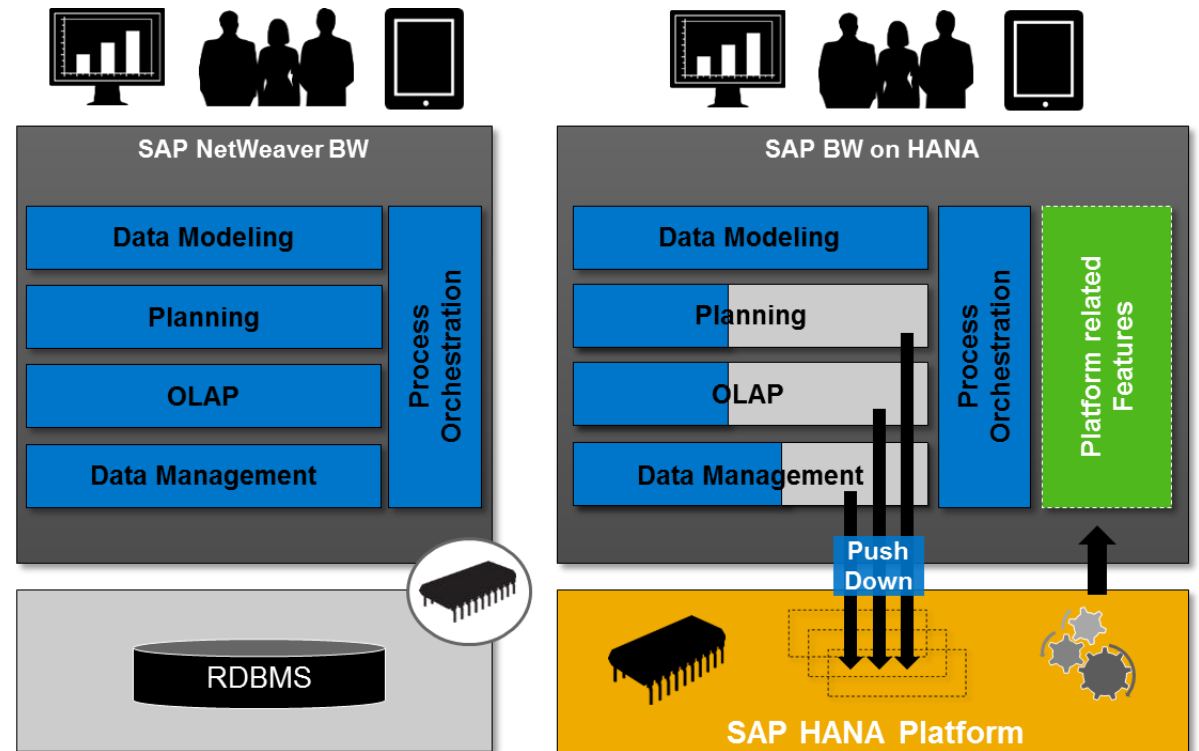
- Performance boost for data load, query and planning processes

Simplified SAP BW

- Flexibly combine EDW with SAP HANA models
- Data persistency layers reduction
- Simplified data modeling and remodeling

SAP HANA as platform

- Offers functionality which can be leveraged in SAP BW
- e.g. predictive libraries integration



SAP Business Warehouse

Product road map overview - key themes and capabilities

Today

Push down of data intensive functions to HANA

- Analytic Manager, Warehouse management processes and Planning Semantics

Simplified data modeling

- Open ODS View flexible integrating external data
- CompositeProvider consolidating existing InfoProviders
- Common Eclipse based modeling tools
- Advanced DSO to consolidate DSOs and InfoCube

BIG Data scenarios

- HANA dynamic tiering for Petabyte-scale storage
- NLS Storage enhancements

SAP HANA Enterprise Cloud

- Best practice for large scale BW migrations into the cloud

Exposing BW data models for SQL consumption

- Generation of HANA models from BW InfoProviders and simple BEx queries

BPC Embedded Model

- Integrating capabilities of BW IP, BPC and HANA

Mobile devices

- Easy mobile consumption using ODATA standard
- SAPUI5 based Process Chain Monitor

(Release 7.4 SP10)

Planned Innovations

Push down of data intensive functions to HANA

- Hierarchy processing pushed down leveraging HANA technology

Simplified data modeling

- Additional CompositeProvider capabilities
- Enhance Eclipse based query designer

SAP HANA Enterprise Cloud

- Enable fast and easy cloud deployment

Exposing BW data models for SQL consumption

- Support additional BEx query features for generation of HANA models

BPC Embedded Model

- Combining flexible planning functionality for Line of Business with governance of central IT

Future Direction

Integration with the HANA Platform

- Leverage HANA Information Management capabilities for BW
- Further pushdown of data intensive functions to HANA

Simplified and streamlined user experience

- Eclipse based Modeling for Data Flows
- SAPUI5 based Monitoring and Administration Tools

Big data scenarios

- NLS: Exceptional inserts, updates and deletes
- HANA dynamic tiering for Advanced DSO.
- Further HADOOP/BIG Data integration

SAP HANA Data Warehousing Services

- Data distribution optimizer
- Data lifecycle management

SAP HANA Enterprise Cloud

- NLS as a Service in the HEC

BPC Embedded Model

- Local planning scenarios with BW Workspaces and BPC Embedded Model

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



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SAP Business Warehouse

The Virtual BW

Today

Recap – Open ODS Views with SAP BW 7.4 SP5

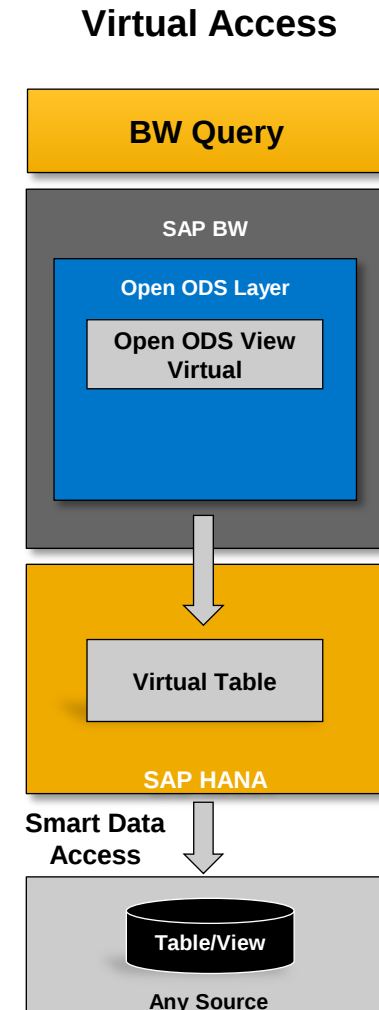
Flexible and easy integration of external data models

- Consume external data of DB tables or views
- Agile modeling combining InfoObject and field based modelling
- Easy assignment of semantics (facts, master data)
- Integrated and modern modeling environment between HANA and BW

Enhanced Business Flexibility by supporting “the logical EDW”

- SAP HANA Smart Data Access leveraged by SAP BW
- Supports virtualized query access

Reduced data modeling efforts



SAP Business Warehouse

The Virtual BW - Open ODS views

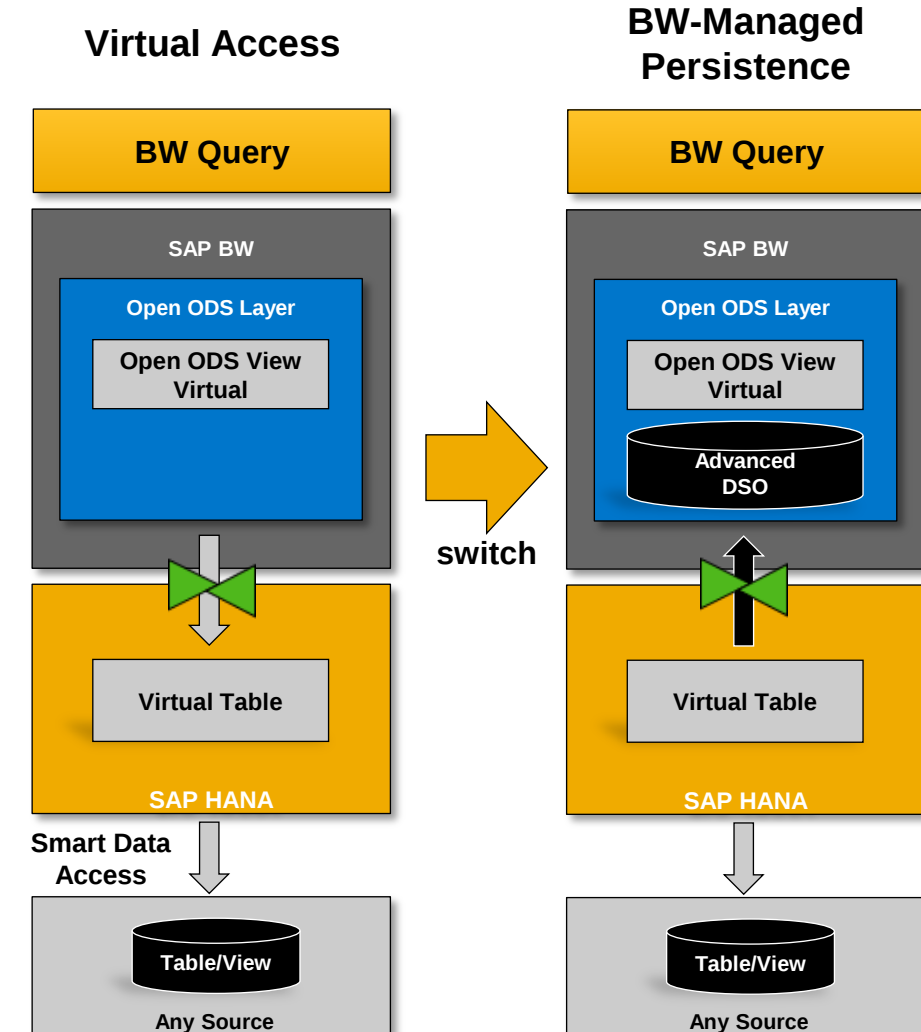
New with SAP BW 7.4 SP8

New source objects for Open ODS Views

- Advanced DataStore Object (details in next chapter)
- BW Transformations (for type conversions, mappings, etc.)

Automated Data Flow generation to create a persistency in SAP BW

- Built-in support to switch from virtual access to managed persistence by single click for:
 - higher service level, delta enablement, . . .
- Automated creation of an Advanced Data Store Object corresponding to the view definition including data flow



SAP Business Warehouse

The Virtual BW – CompositeProvider

Recap- CompositeProvider with SAP BW 7.4 SP5

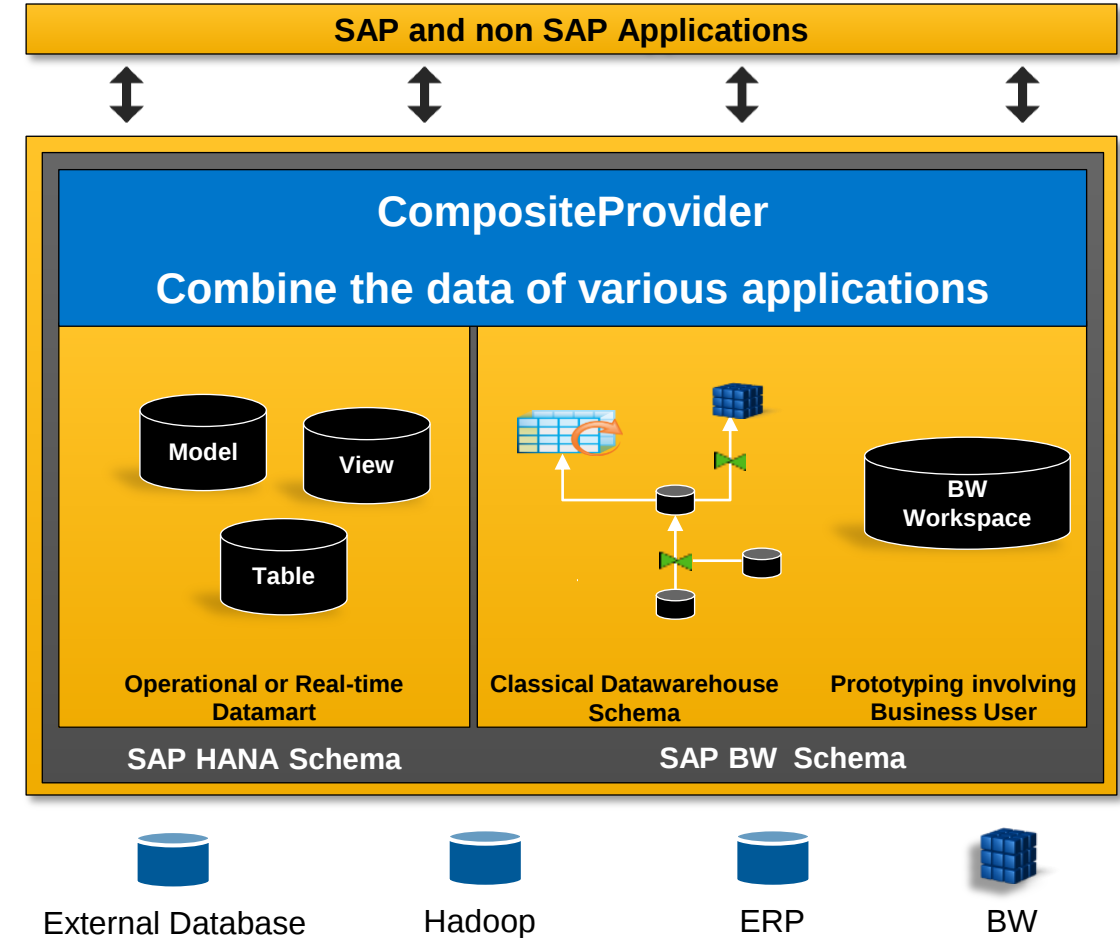
The new CompositeProvider with SAP BW 7.4 SP5 – virtualization and consolidation

- Combine BW InfoProviders and HANA tables/views via UNION or JOIN
- Consolidation of existing InfoProvider types by new CompositeProvider
 - Successor to BW MultiProvider, BW InfoSet, existing CompositeProvider, TransientProvider on HANA Models, VirtualProvider on HANA Models

Faster implementations of data model

More flexibility – additional business insights

Completely processed on SAP HANA



SAP Business Warehouse

The Virtual BW – CompositeProvider

New with SAP BW 7.4 SP8

New use cases

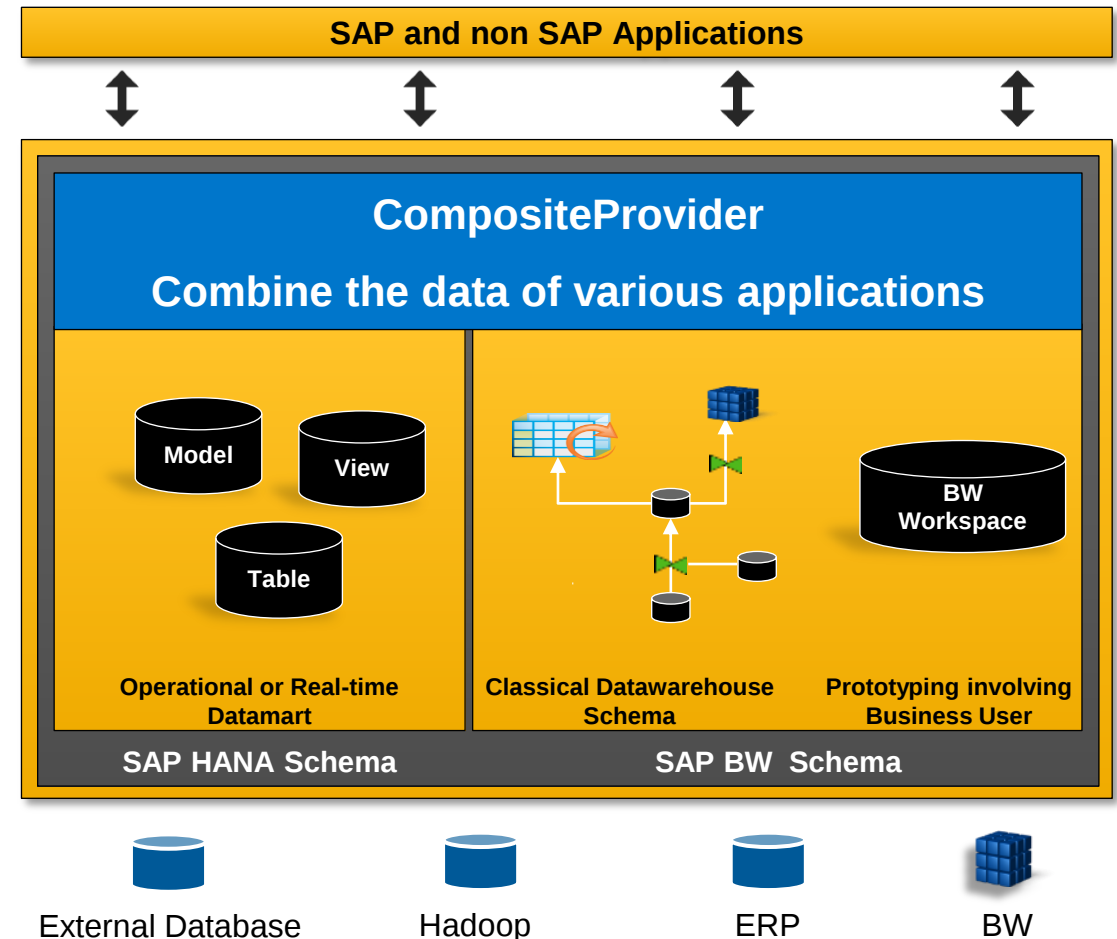
- Supports planning functionalities for UNION Cases
- UNION between CompositeProviders

Optimized integration with Open ODS View

- allow JOINS of Open ODS Views
- Support of navigational attributes

Enhanced HANA View integration

- Support of input parameters



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Simplification - Advanced DataStore object

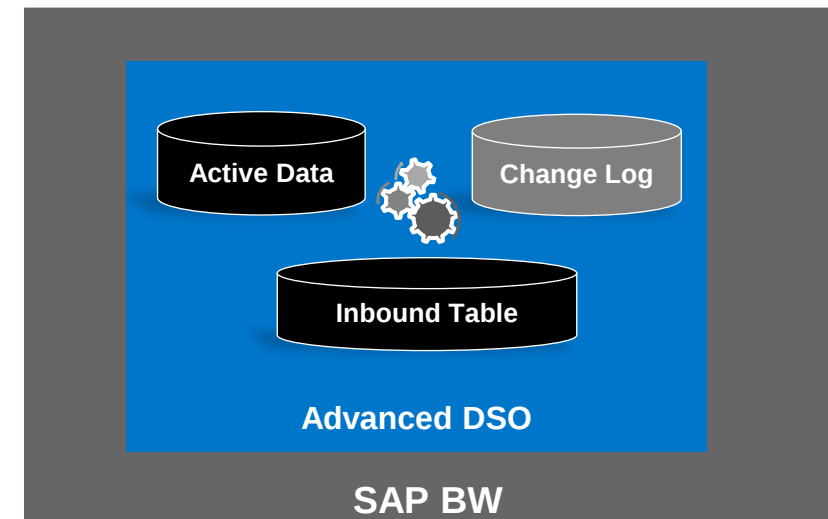
New with SAP BW 7.4 SP8 – Overview

Next generation of Data Store Object simplifies data modeling in SAP BW

- Consolidate DataStore Objects and InfoCubes
 - Single type of BW object
 - Settings to manage properties .e.g. DSO like, InfoCube like
- Combine InfoObject and field based modelling
- New intuitive & modern modelling UI

Optimized DataStore services

- High frequent data loads - based on optimized request management
- Change of usage scenario without deletion of data
- Up to 120 key fields
- Optional SID entries for query performance optimization



SAP Business Warehouse

Simplification - Advanced DataStore object

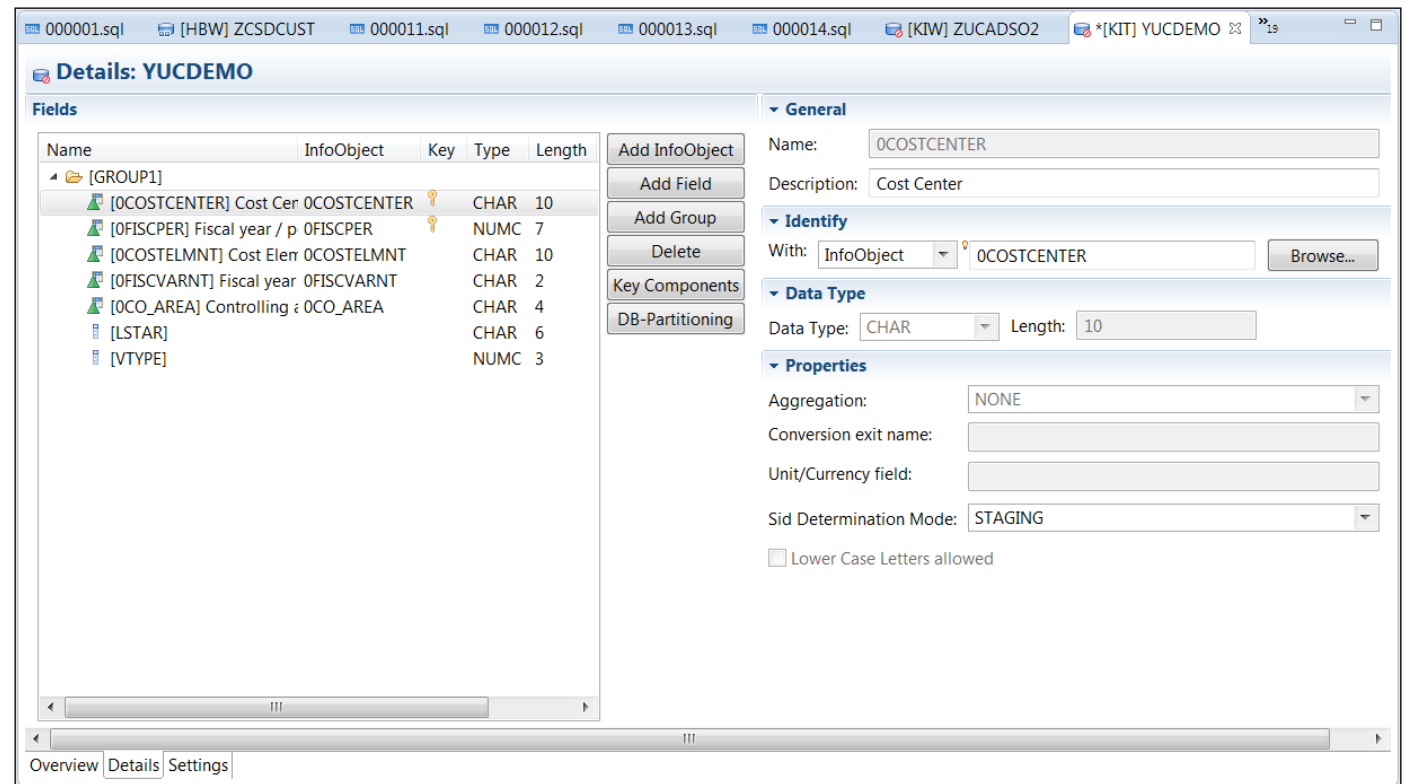
New with SAP BW 7.4 SP8 – eclipse based modelling experience

Intuitive User Interface

- Aligned with CompositeProvider and Open ODS Views modelling

Benefits

- Supports agile data modelling
- Reduces implementation times massively



SAP Business Warehouse

Simplification - Consolidation of BW modeling objects

New with SAP BW 7.4 SP8

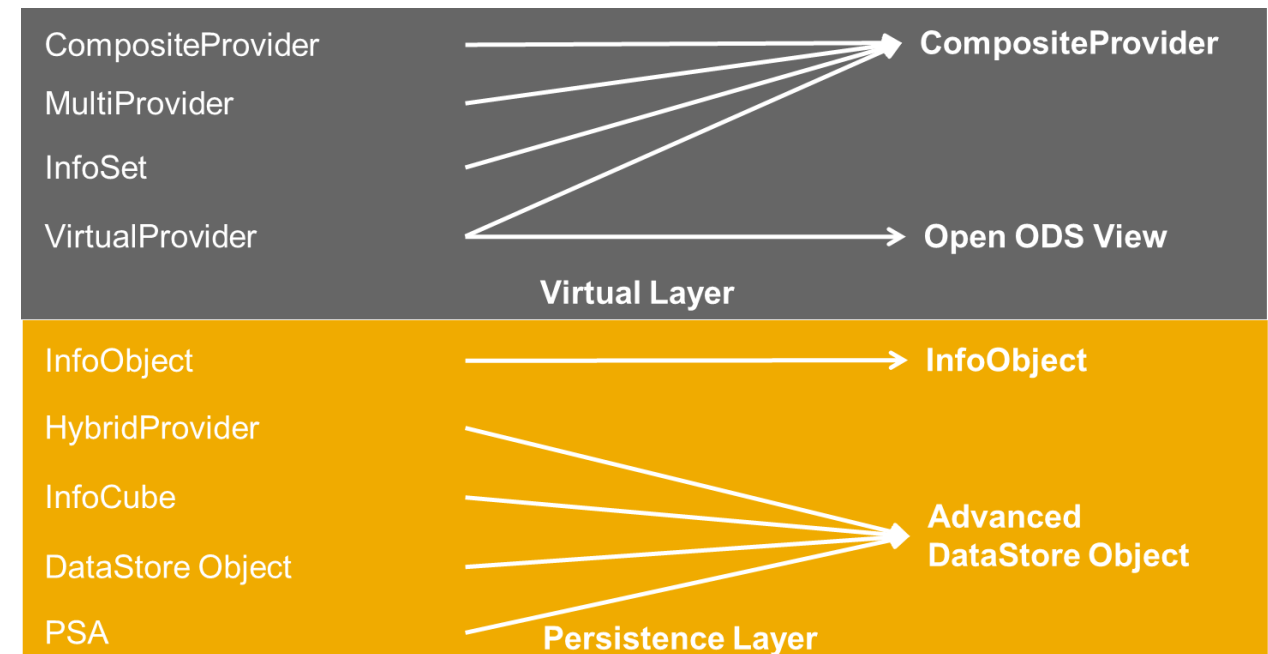
SAP BW 7.4 on HANA consolidates existing InfoProviders

- CompositeProvider as new object to define joins between InfoProviders
- Open ODS View for virtual access to external sources
- InfoObject to model semantically rich master data
- Advanced DataStore Object as the new object for persistence management

Traditional InfoProviders still exist but future innovations are focusing on the consolidated objects of SAP BW 7.4 on HANA

SAP BW on RDBMS

SAP BW 7.4 on HANA



SAP Business Warehouse

Simplification - Simple query in BW-modeling tools in Eclipse

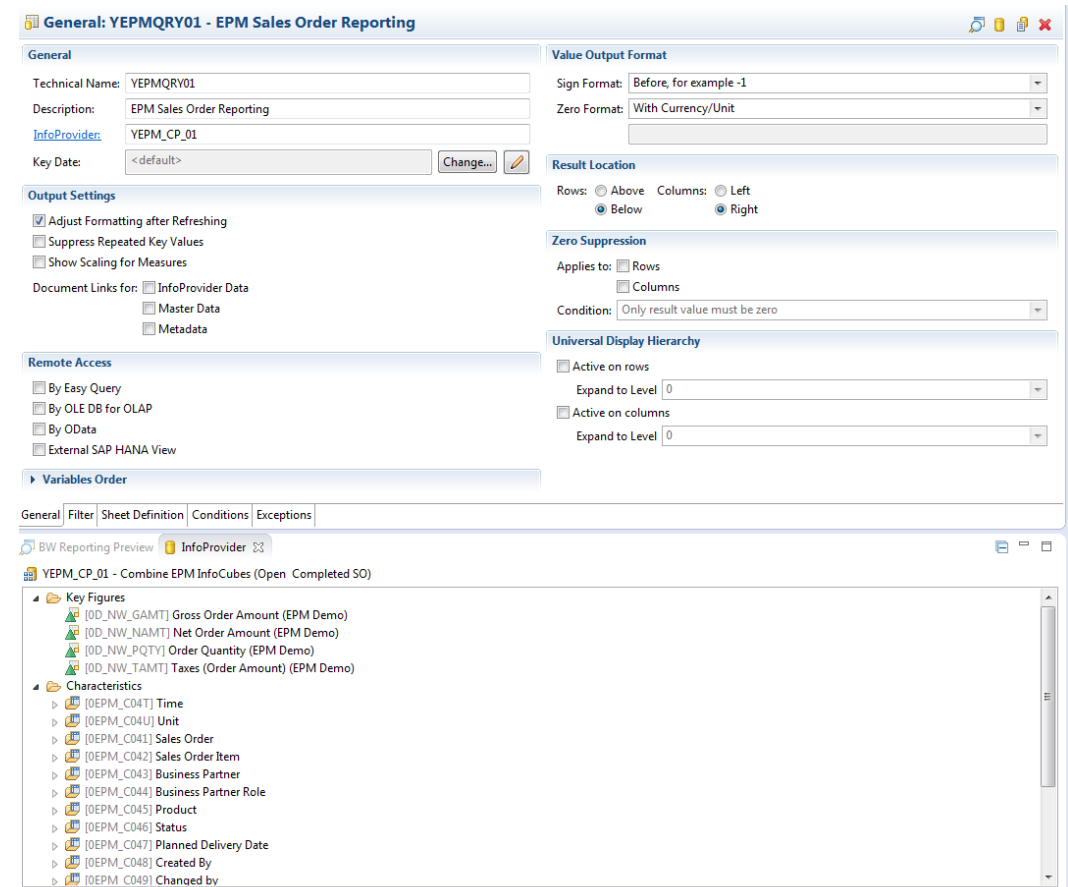
New with SAP BW 7.4 SP9 – eclipse based modelling for BW Queries

Create simple Queries in Eclipse

- BWMT 1.6 required
- A subset of query functionality can be created directly in eclipse

Choose between various functions

- Create structures in the row and column axes of the query
- Use reusable restricted and calculated key figures
- Conditions & Exceptions
- Currency and unit conversion



SAP Business Warehouse

Simplification - Automated generation of HANA Models

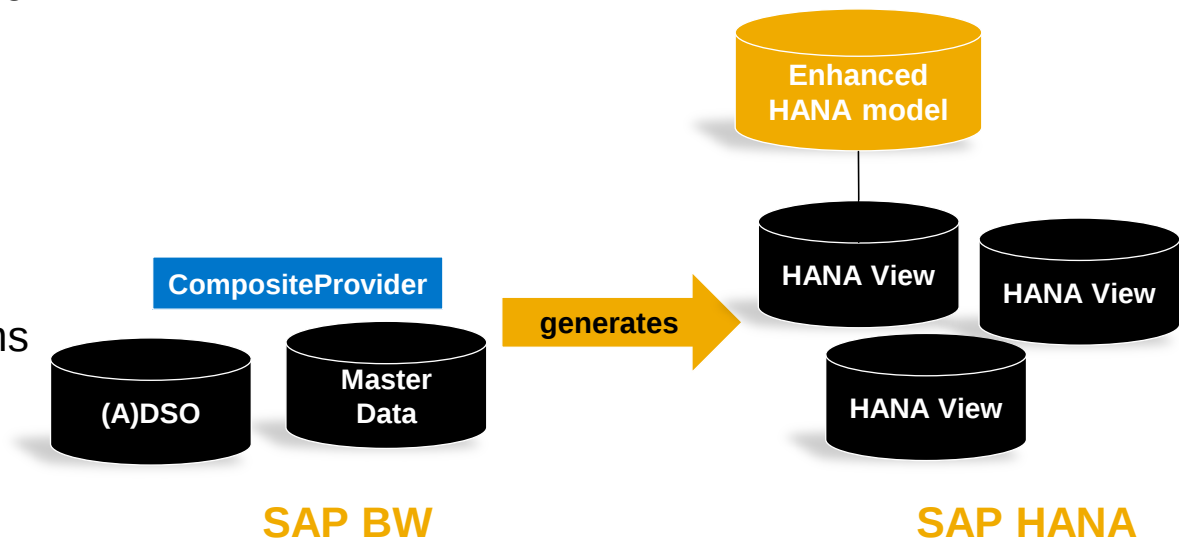
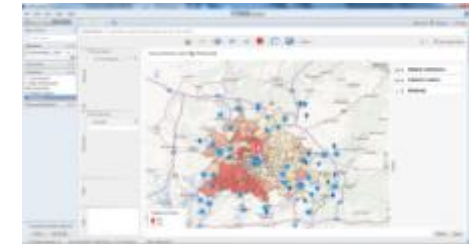
Recap – HANA view generation with SAP BW 7.4 SP5

Automated HANA model generation for direct SQL consumption of BW Data

- Enhanced Metadata interoperability between BW and HANA
- Triggered automatically during BW InfoProvider activation

HANA model generation for BW InfoProvider

- Direct consumption of BW data via generated HANA views for BI Tools or SQL
- Usage of generated view in HANA Studio to build own data models using BW data and HANA native algorithms
- Analysis Authorization: Automatic sync between HANA and BW



SAP Business Warehouse

Simplification - Automated generation of HANA Models

New with SAP BW 7.4 SP8-SP9

Generate SAP HANA views based on BW queries (SP8)

- If a query definition can be expressed as a flat view the calculation can fully take place in SAP HANA and a corresponding HANA view can be generated
- More information about prerequisites: [here](#)
- Integration in Query Designer in Eclipse (SP9)

Supported functionalities

- Generate a SAP HANA model for a simple BW Query including security
- Supported features: currency/unit conversion, variables, restricted key figures, global restrictions, inventory key figure (closing balance)
- Generated SAP HANA model able to read the data from the Nearline Storage

The screenshot shows the SAP Query Designer interface for a query named 'YEPMQRY01 - EPM Sales Order Reporting'. The 'General' tab is active, displaying fields for Technical Name, Description, InfoProvider, and Key Date. The 'Output Settings' section includes checkboxes for 'Adjust Formatting after Refreshing', 'Suppress Repeated Key Values', and 'Show Scaling for Measures'. The 'Remote Access' section is highlighted with a yellow box, showing options for 'By Easy Query', 'By OLE DB for OLAP', 'By OData', and 'External SAP HANA View'. The 'Value Output Format' section includes 'Sign Format' and 'Zero Format' dropdowns. The 'Result Location' section includes 'Rows' and 'Columns' radio buttons. The 'Zero Suppression' section includes 'Applies to' checkboxes and a 'Condition' dropdown. The 'Universal Display Hierarchy' section includes 'Active on rows' and 'Active on columns' checkboxes, each with an 'Expand to Level' dropdown.

SAP Business Warehouse

Performance - SAP HANA optimized transformations

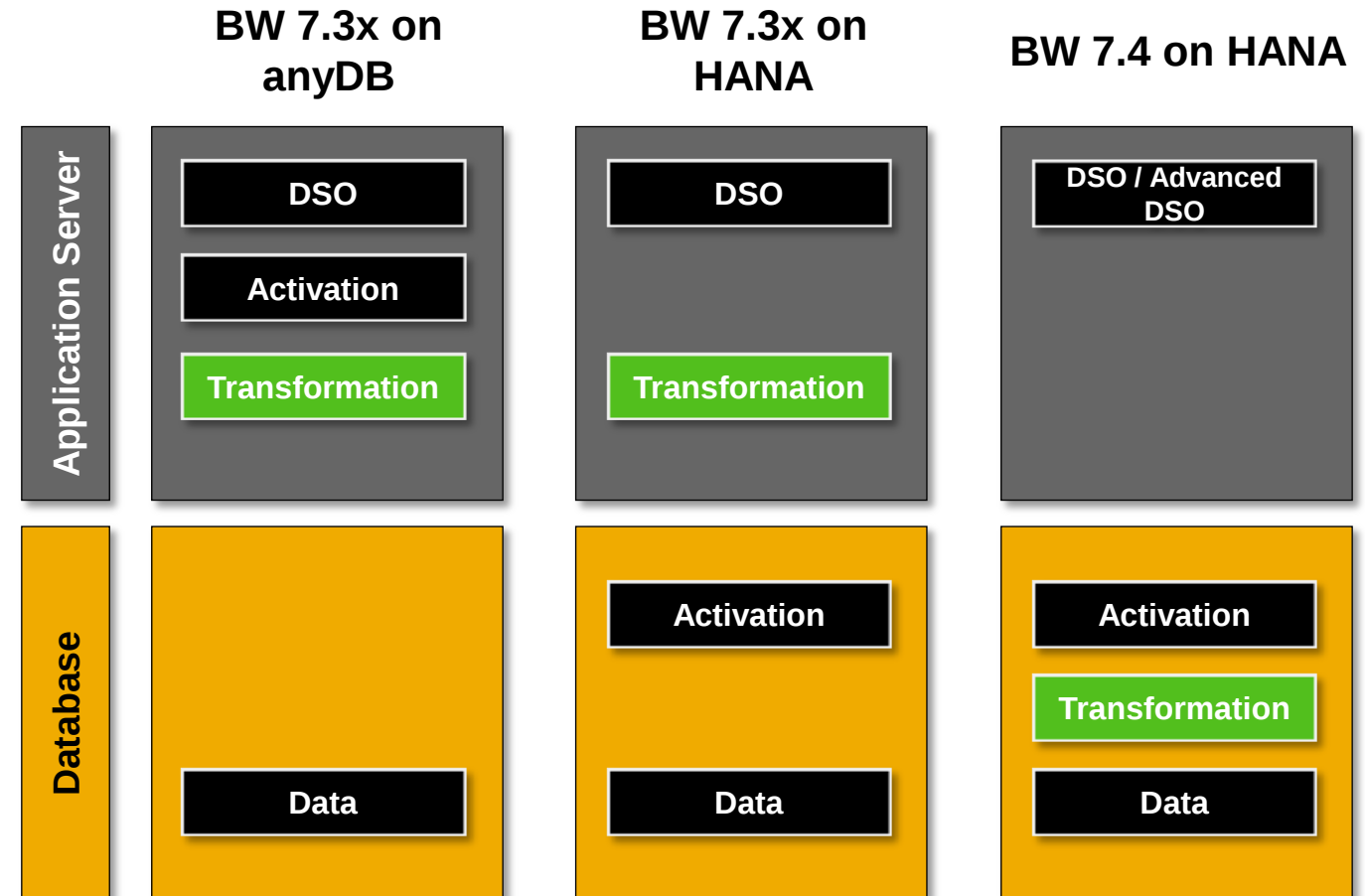
Overview & Update with SP8

Next level of performance in data staging for BW on HANA

- Standard Transformations are optimized to be processed directly in SAP HANA where possible

New with SAP BW 7.4 SP8

- Additional formulas pushed down to HANA
- ABAP managed database procedure (AMDP) integration for easy editing of HANA procedures
- Additional performance optimizations



SAP Business Warehouse

Performance push-down of OLAP functionality

Overview & Update with SP8

OLAP Features pushed down to HANA since BW 7.4 SP5

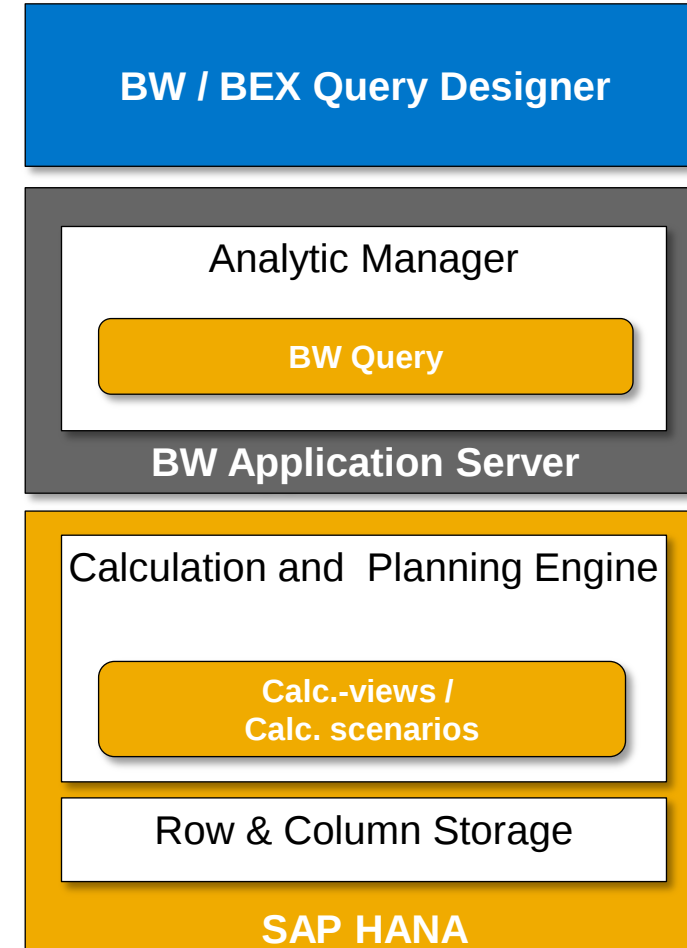
- Processing of Unions and Joins in CompositeProvider
- Avoid intermediate result set materialization (e.g. Exception Aggregation)

New push down with SAP BW 7.4 SP8

- Handling of inventory key figures
- Unit conversion with Reference InfoObjects

Details about availability of pushed down OLAP functionality

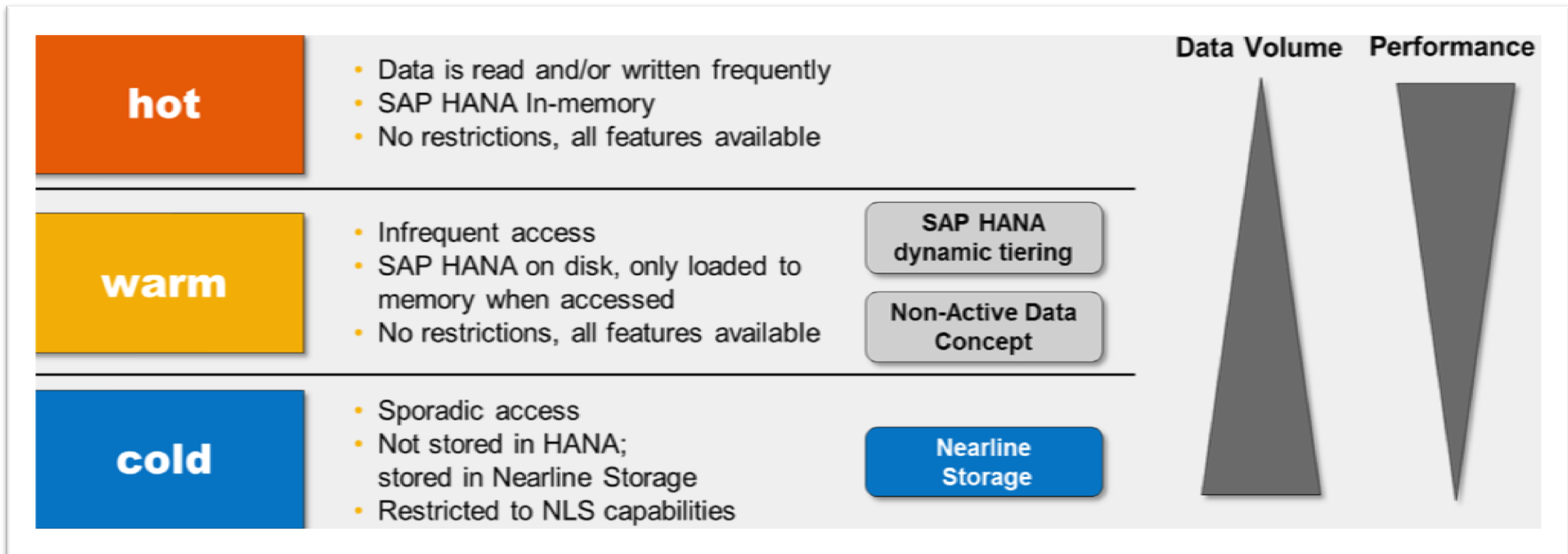
- SAP Note 2063449 - Push down of BW OLAP functionalities to SAP HANA



SAP Business Warehouse

Big data – Multi-temperature data management in SAP BW

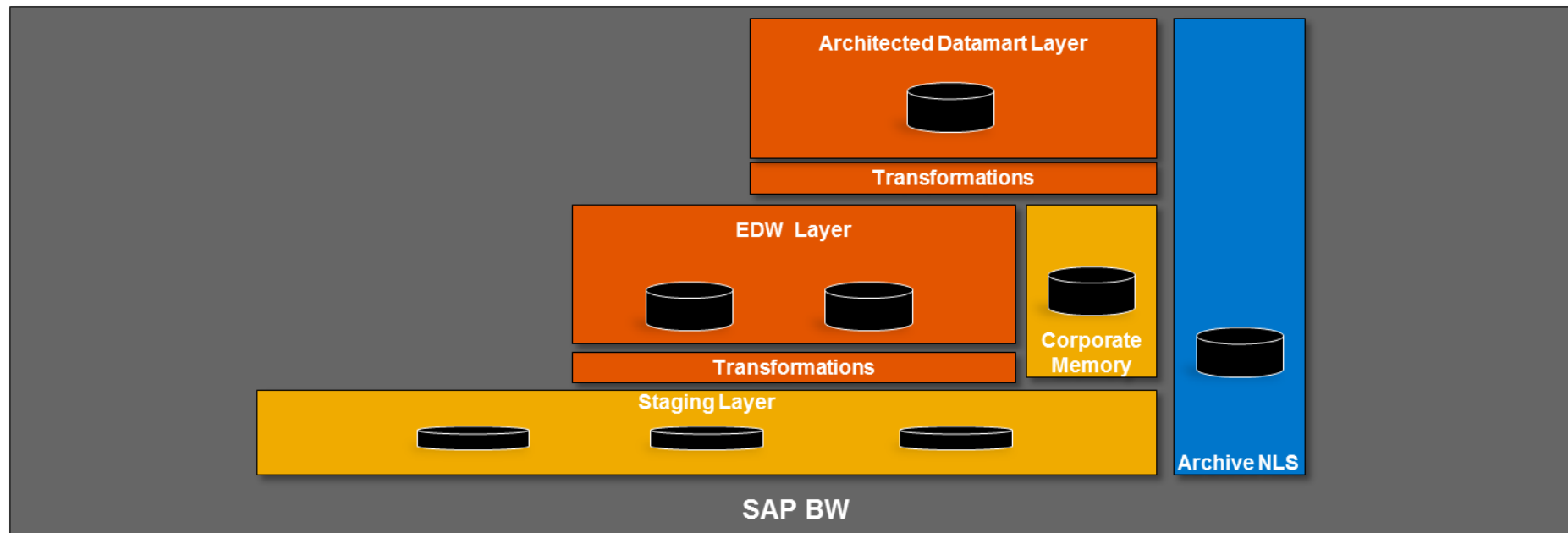
Providing lower TCO by optimized SAP HANA RAM management



SAP Business Warehouse

Big data – Multi-temperature data management in SAP BWAP

Architectural Heat Map – temperature data distribution



Hot Areas

- heavy reporting and/or HANA-native operations (Delta, Transf.,...)

Warm Areas

- limited reporting, limited HANA-native functions

Cold Areas

- Archive, read-only data, different SLAs

SAP Business Warehouse

Big data - SAP HANA dynamic tiering for SAP BW

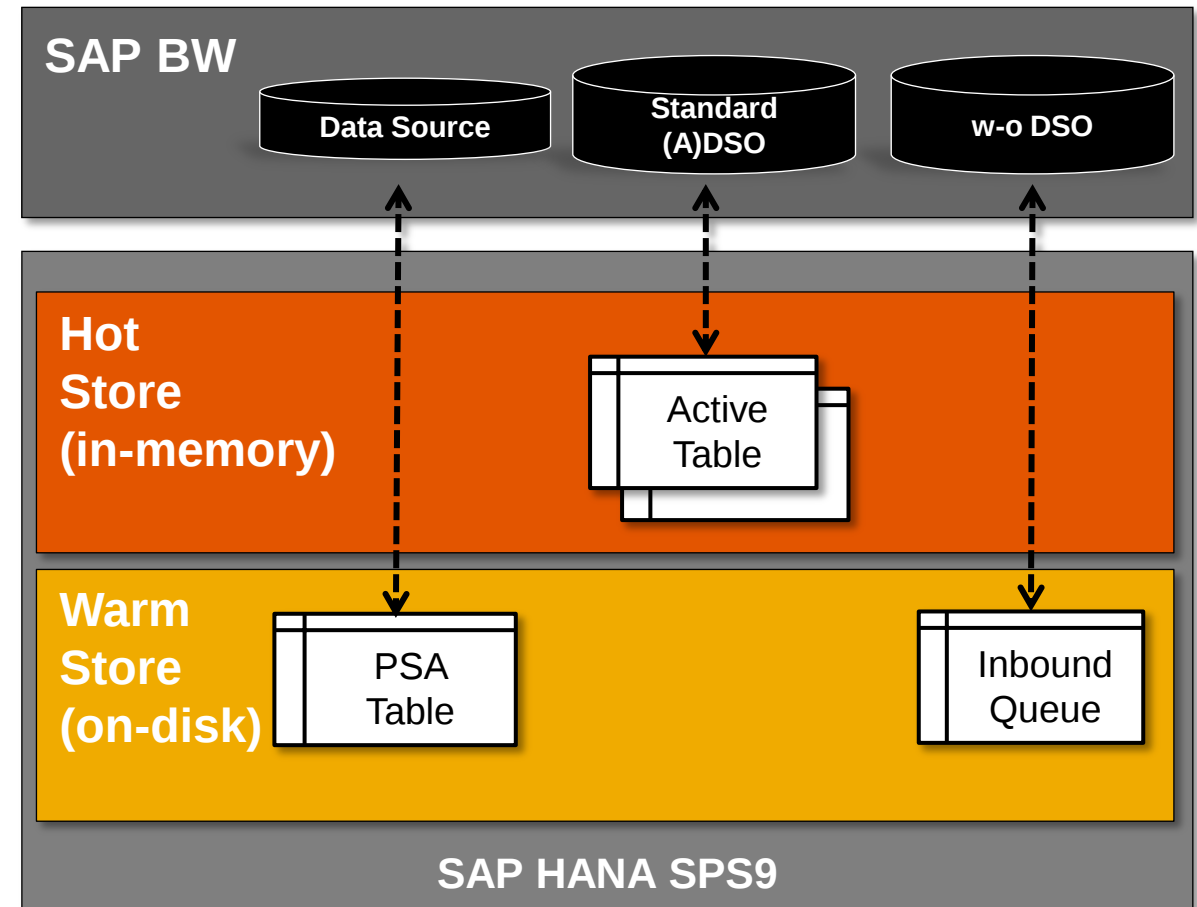
- New with SAP BW 7.4 SP8 and SAP HANA SPS9

Warm store as dynamic extension to hot store and integral part of the HANA platform

- Reduced in-memory footprint
- Highly efficient compression and performance
- Unified Installation & Update Management
- One Backup & Recovery process

Can be set for Write Optimized DSOs and DataSources as extended table property

- Data load processes and queries are processed within the warm store
- Transparent for all operations, no change for BW processes required
- Conversion to move existing data to warm store



SAP Business Warehouse

Big data – Multi-temperature data management in SAP BW

SAP HANA dynamic tiering and Nearline Storage for SAP BW
Different types of data with different types of storage

SAP HANA dynamic tiering

- Optimize RAM utilization within HANA
- Integral part of the platform
- Complete data manipulation cap. (Create, Read, Update, Delete)
- Meets mission critical system SLAs
- Complete tables (and partitions)

SAP BW Nearline Storage with SAP IQ

- Optimize data persistence in system landscape
- Independent server
- Write once, read many
- Usually lower SLAs
- Arbitrary (semantic) data slices

SAP Business Warehouse

Big data - Nearline Storage (NLS) with SAP IQ

New with SAP BW 7.4 SP8

Enhanced NLS operations

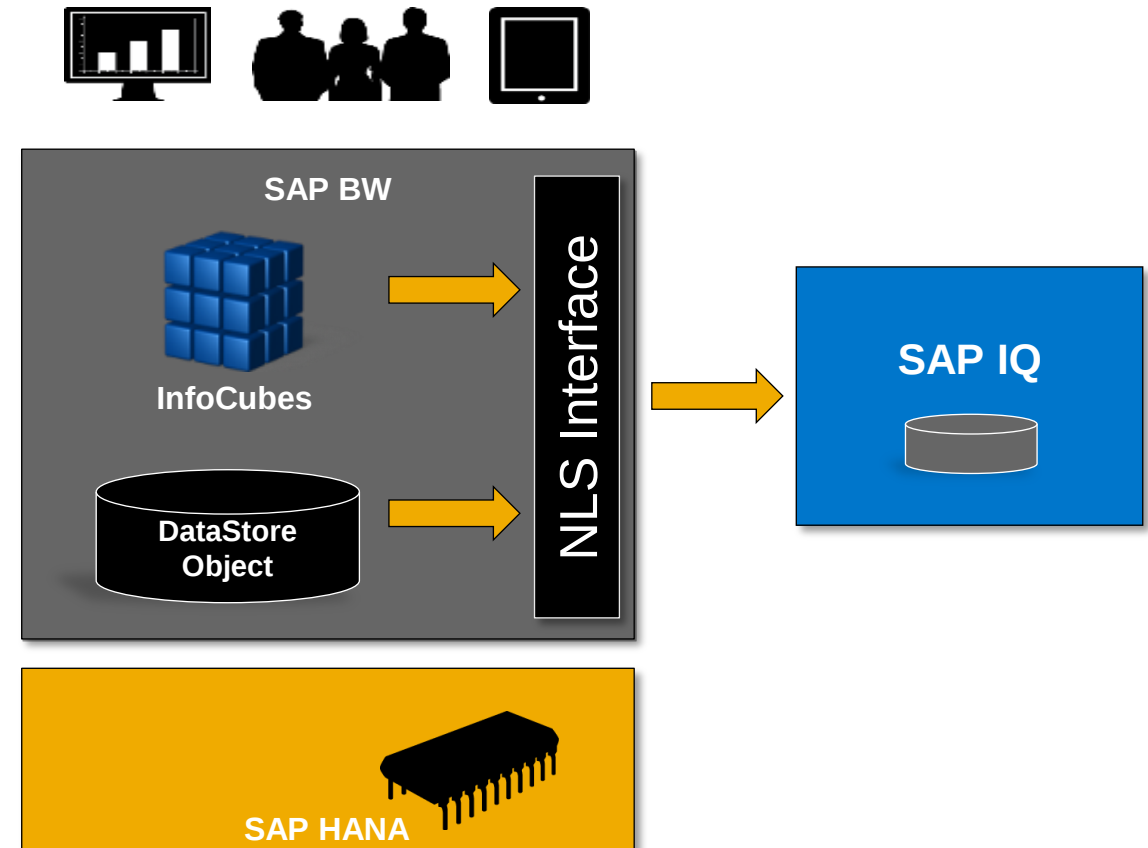
- Data Archiving proposals
- Automated data archiving process generation
- NLS integration in DBA cockpit

InfoCubes with non cumulative key figures

Query optimizations for NLS

- Query pruning based on time dimensions and archived time slices
- Push down of OLAP functions(Restricted Key Figures, Hierarchies,...) to HANA

HANA model generation includes NLS data



SAP Business Warehouse

Planning - Push-down of planning semantics

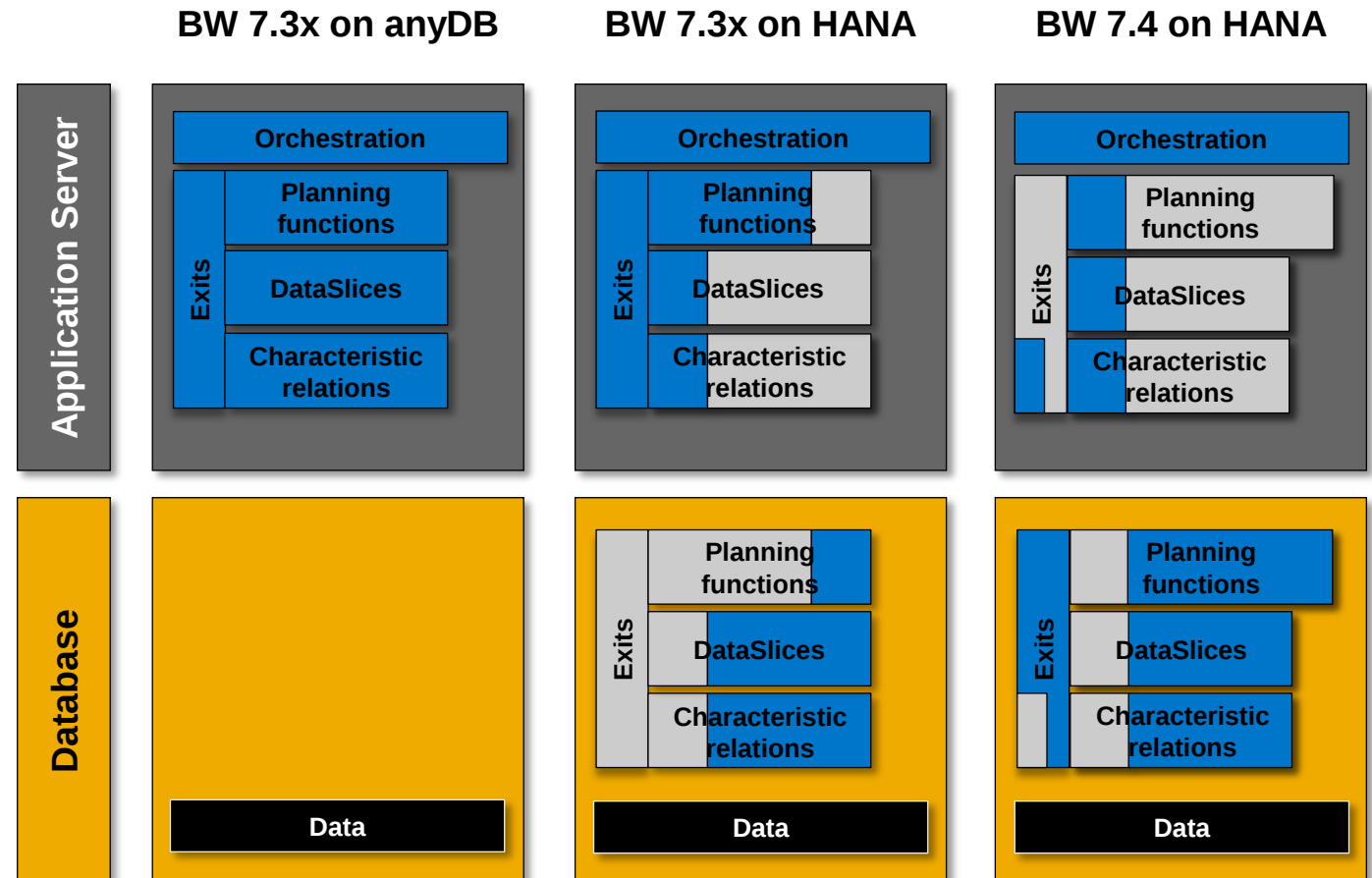
Overview & Update with SP8:

Next level of performance by pushing down further planning capabilities to HANA.

New with SAP BW 7.4 SP8

- Planning application kit (PAK) feature completeness with BW-IP
- Enhanced FOX productivity and usability

Details about availability of pushed down Planning functionality see SAP Note 1637199



SAP Business Warehouse

Planning - BW-IP/PAK enhancements

New with SAP BW 7.4 SP8

Improved FOX Formula handling

- FOX able to replace custom developed ABAP planning functions
- Internal Table: Define a table via FOX coding, supports all table operations (e.g. read, insert, update . . .)
- Access to 'external' data: Read data of any aggregation level out of the planning buffer
- New Syntax Highlighting in FOX editor
- FOX debugging via debugging script

Use CompositeProvider for planning scenarios

- Support of planning scenarios based on Unions

Entering comments

- Available for SAP Analysis for Office, SAP Design Studio, BEx Analyzer, BEx Web



Planning - SAP Business Planning and Consolidation 10.1, version for SAP NetWeaver powered by SAP HANA

Enhanced analysis and planning capabilities

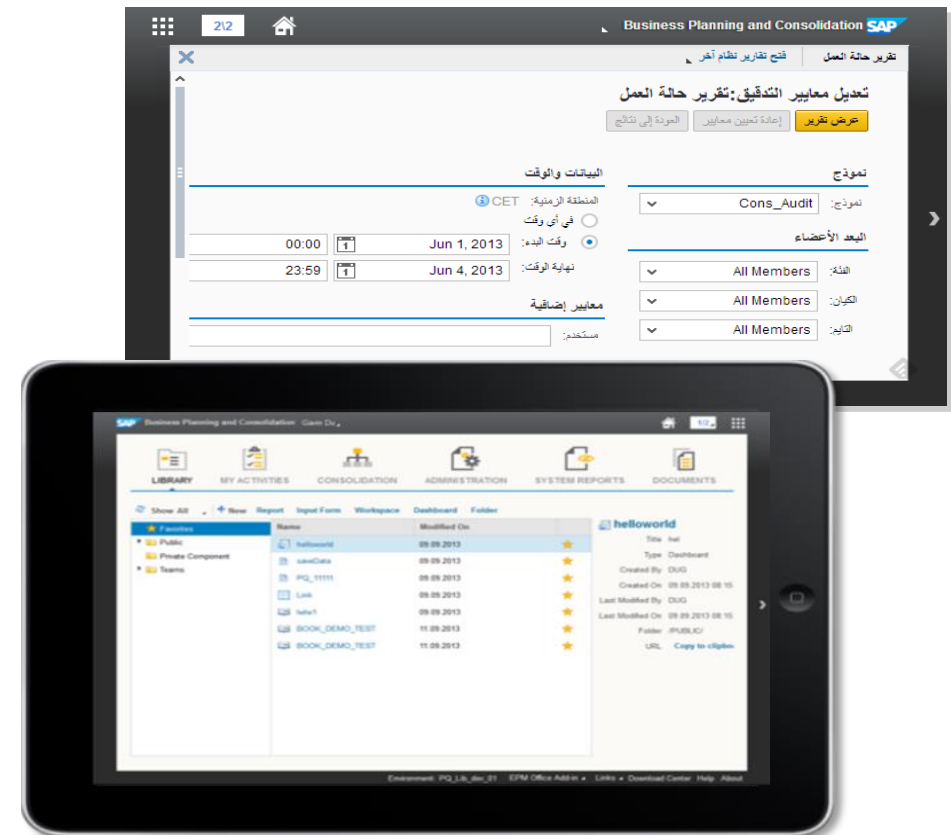
- Leverages BW Integrated Planning models and benefits from SAP HANA acceleration
- Adds new capabilities to existing BW-IP features e. g. business process flows, work status . . .
- Optimized planning functions leveraging SAP HANA for better, more timely decisions

Increased usability

- New HTML5 UI for easier navigation and cross-platform readiness

Selected features available with SAP BW 7.40 SP8

- Master data planning, e.g. entering new values



Overview & Update with SP8

Overcome the 60 characters limitation for additional flexibility

- Extend length for Characteristics values
(Attribute length ≤ 250)
- Extra long texts for Characteristics
(Long text type 'Char 1333')

New with SAP BW 7.4 SP8: XXL - Attributes

Possibility to load and store different Files types (MIME Types) as XXL-attribute into BW

- E.g. PDF's, XML, Office Files, Images, Video-Files, Audio-Files
- **Store very long strings as attribute in SAP BW**
- E.g. Twitter information (Tweets), File-paths, URL



SAP Business Warehouse

BW Search, Remodeling Tool Box

Update with SP8

BW Search

- New Eclipse based UI
- Search based on object level
- No replication or copy of data
- Using SAP HANA search capabilities (or rather Attribute Views)

Re-modelling Tool Box

- Supports semantically partitioned objects

Operational Data Provisioning (ODP)

- Supports hierarchy loads



SAP Business Warehouse

New Process Chain Monitor

New with SAP BW 7.4 SP8

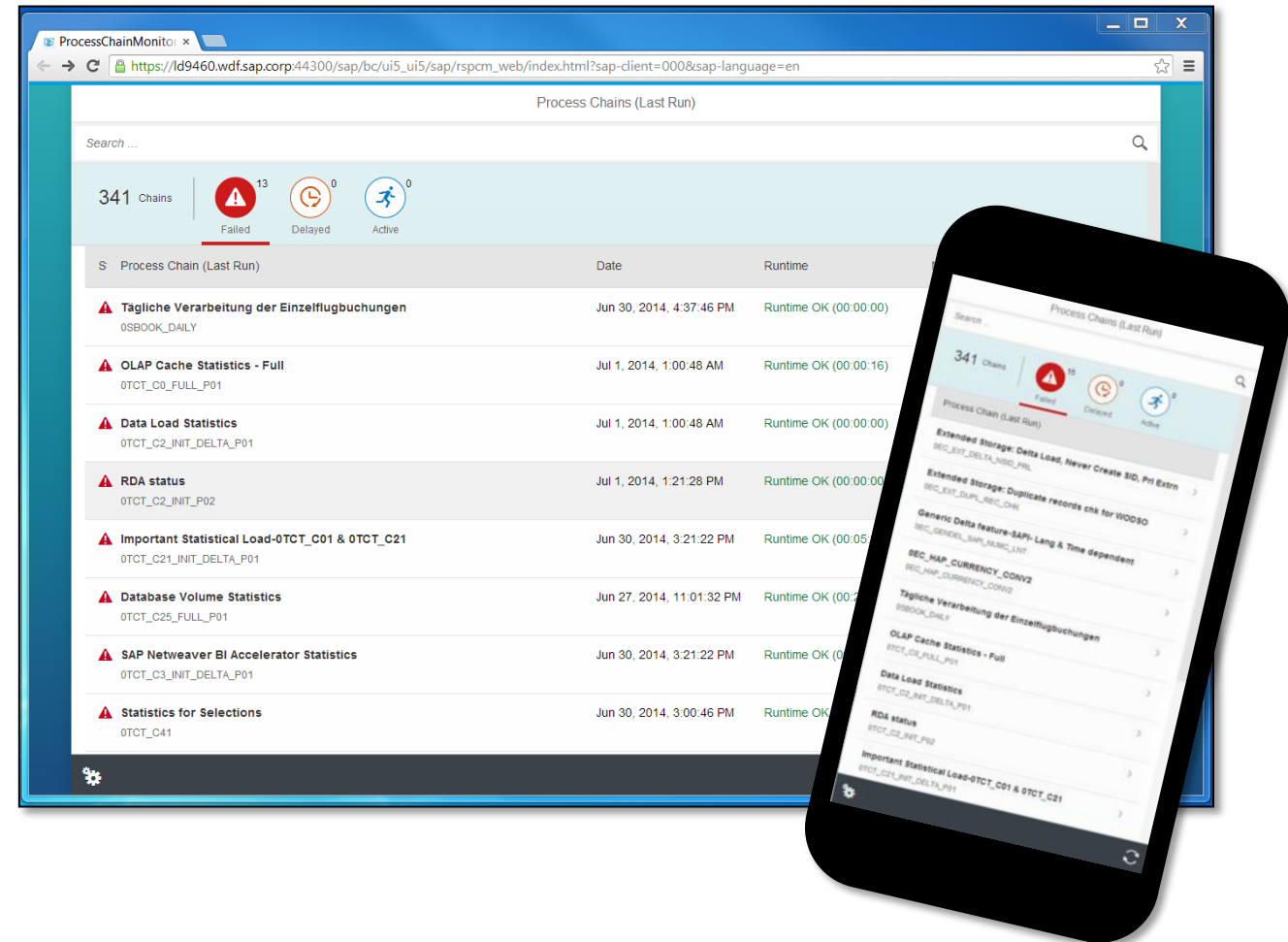
Easy monitoring – anytime anywhere

- Detect errors
- Analyze process and job logs
- Repair failed steps

Attractive, intuitive design based on SAP UI5 technology optimized for device screen size

Simple configuration

- Reuses settings of backend Process Chain Monitor
- Works directly on Process Chain logs – no data replication



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Planned innovations

SAP Business Warehouse

Every new BW release will incorporate newest HANA features ...

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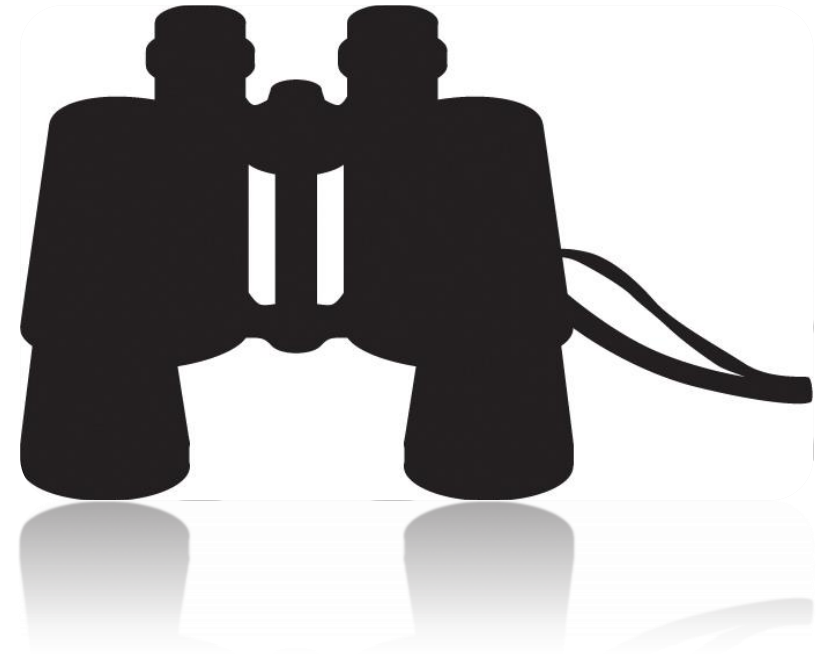
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- Combining flexible planning functionality for Line of Business with governance of central IT

Future Direction

Integration with the HANA Platform

- Leverage HANA Information Management capabilities for BW
- Further pushdown of data intensive functions to HANA

Simplified and streamlined user experience

- Eclipse based Modeling for Data Flows
- SAPUI5 based Monitoring and Administration Tools

Big data scenarios

- NLS: Exceptional inserts, updates and deletes
- HANA dynamic tiering for Advanced DSO.
- Further HADOOP/BIG Data integration

SAP HANA Data Warehousing Services

- Data distribution optimizer
- Data lifecycle management

SAP HANA Enterprise Cloud

- NLS as a Service in the HEC

BPC Embedded Model

- Local planning scenarios with BW Workspaces and BPC Embedded Model

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

SAP Business Warehouse

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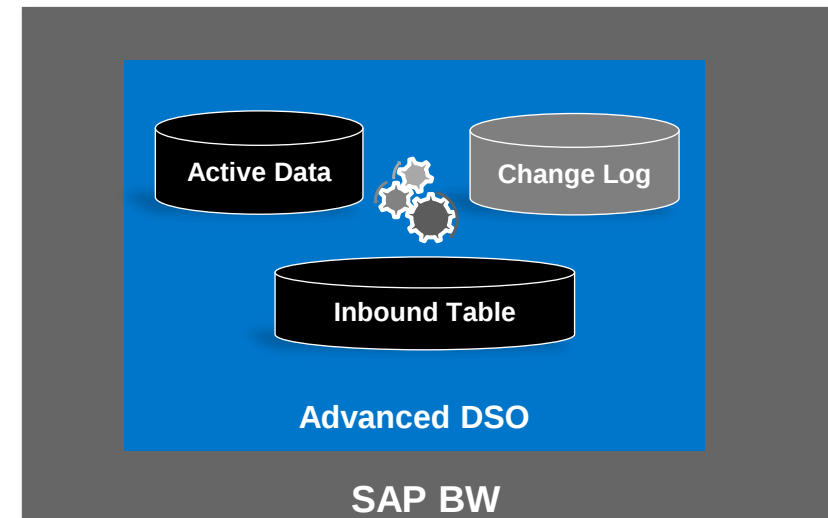
This is the current state of planning and may be changed by SAP at any time.

Simplification – Advanced DataStore object

Planned future direction

Future enhancements

- Non-cumulative key figures
- Template based modelling
- Nearline Storage (NLS)
- Extended Table property for SAP HANA dynamic tiering
- Support of planning scenarios
- Support for direct update scenarios (write-APIs)
- Conversion tool for classic DataStore Objects and InfoCubes
- Real-Time enablement
- Additional Partitioning options



Summary

Enterprise Data Warehousing with SAP BW 7.4 on HANA

Tight integration between SAP BW 7.40
and SAP HANA supports

- ... simplified and unified modeling
- ... reduced complexity of your EDW landscape
- ... pushing down additional processing logic to HANA

SAP BW on HANA is and will continue to be the
corner stone of SAP's EDW strategy.



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

Related road maps

Related product road maps available on Service Marketplace:

- SAP HANA road map:
<https://service.sap.com/~sapidb/011000358700000462232012D.pdf>
- SAP NetWeaver Application Server ABAP road map
<https://service.sap.com/~sapidb/011000358700000115232013E.pdf>



Thank you

Road map contacts for customers and partners

- Lothar Henkes

Lothar.Henkes@sap.com

SAP Product Management

Key links for more information

For customers and partners

Key links

- Road maps on SAP Service Marketplace <http://service.sap.com/roadmap>
- SAP Community Network <http://www.sdn.sap.com/>
- IT Planning Resources <http://service.sap.com/~sapidb/011000358700001160122012E>
- SAP Homepage www.sap.com
- BW Space <http://scn.sap.com/community/data-warehousing/netweaver-bw>
- BW on HANA Space <http://scn.sap.com/community/netweaver-bw-hana>

Where to go to provide product feedback and ideas

- SAP Idea Place <https://ideas.sap.com>
- Influence programs <http://service.sap.com/influence>
- SAP User Groups <http://www.sapusergroups.com/>



Appendix

Appendix

Table of contents

Acronym Glossary

Implementation Guidance

Acronym glossary (1 of 2)

Acronym	Full Text
ALE	Application Link Enabling
BW	Business Warehouse
BWA	SAP NetWeaver Business Warehouse Accelerator
DSO	DataStore Object
DTP	Data Transfer Process
EDW	Enterprise Data Warehousing
ERP	Enterprise Resource Planning
NLS	Near Line Storage
PCA	Post copy Automation
PSA	Persistent Staging Area

Acronym glossary (2 of 2)

Acronym	Full Text
RDBMS	Relational Database Management System
RFC	Remote Function Call
RSDRI	External read interface
SID	System ID
SPO	Semantic Partitioned Objects
TCO	Total Cost of Ownership
RDBMS	Relational Database Management System
RFC	Remote Function Call
RSDRI	External read interface



Implementation Guidance

- Summary

SAP Business Warehouse

Implementation guidance

Key information for implementing

- Upgrade/Migration/Implementation <http://scn.sap.com/docs/DOC-7856>
- End-to-End Implementation Roadmap for SAP NetWeaver BW, powered by SAP HANA <https://websmp107.sap-ag.de/~sapidb/011000358700001167432011E>
- SAP NetWeaver Business Warehouse How-To Guides <http://scn.sap.com/docs/DOC-27566>
- Support Package Releases of SAP NetWeaver Business Warehouse <http://scn.sap.com/docs/DOC-7777>
- SAP Business Warehouse 7.4 <http://scn.sap.com/docs/DOC-35096>
- FAQ Area for SAP NetWeaver BW on SAP HANA <http://scn.sap.com/docs/DOC-35203>
- SAP First Guidance for SAP NetWeaver BW powered by SAP HANA <http://scn.sap.com/docs/DOC-28467>
- [Release Notes](#) and [Documentation](#)

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