SAP eXperience Day
SAP BW/4HANA
21 marzo 2018
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Percorsi e Strategie di migrazione a SAP BW/4HANA

Leopoldo Falco,
Solution Architect, SAP Italia
Agenda

Path 1: New Installation

Path 2: System Conversion
- In-place Conversion
- Remote Conversion
- Excerpt: SAP Business Planning and Consolidation
- Availability & Outlook

Path 3: Landscape Transformation

Simplified Data Warehousing

Summary
Paths to SAP BW/4HANA

Path 1: New Install
- New System
- SAP BW on any DB
- SAP BW on SAP HANA
- SAP BW 7.5 on SAP HANA + SAP BW/4HANA Starter Add-On
- SAP BW/4HANA

Greenfield

Path 2a: In-place Conversion
- SAP BW on any DB

Path 2b: Remote Conversion

System Carve Out / Brownfield

Path 3: Landscape Transformation
- SAP BW on any DB
- System Consolidation

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Path 1: New Installation
SAP BW/4HANA – Path 1
New Installation

Scenario Description

• New installation of SAP BW/4HANA e.g. for customers converting from a legacy system or
• Build a system from scratch, with a new data model and load only relevant data from source systems
• For customers, who want a fresh start, we are offering an option to transport certain objects from the existing SAP BW system to a newly installed SAP BW/4HANA system (see appendix)

Benefits for Customers

• Re-engineering and process simplification based on modern data warehouse architecture
• Eliminate old data and shrink system size
• Reap full benefits of SAP HANA platform

Target Group

• SAP Business Warehouse customers or net new customers
SAP BW/4HANA
New Implementation - SAP First Guidedance for SAP BW/4HANA

SAP BW/4HANA

• is a new data warehouse solution
• is highly optimized for SAP HANA with leaner component stack
• No Java stack required
• SAP BW/4HANA modelling environment built to run on SAP HANA
• All new SAP BW 7.5 developments on SAP HANA can be used without changes
• This SAP First Guidance Document puts emphasis to the complete functional scope (CFS) to ensure the full functionality is ready right from the start of the implementation of SAP BW/4HANA

Applicable Releases:
SAP BW/4HANA 1.00 SP00 with HANA SP12
SAP HANA Studio Version: 2.3.8/ADT 2.54.10/BW-MT 1.15
SAP GUI 7.40 PL10
and higher
Path 2: System Conversion
SAP BW/4HANA – Path 2
System Conversion

Scenario Description

• Customers who want to change their current SAP BW system into a SAP BW/4HANA system *
• Tool support for database, release, and application transition
• Options for in-place conversion (keep SID) or remote conversion (new SID) **

Benefits for Customers

• Conversion without reimplementation
• No disruption for existing business processes
• Re-evaluation of customization and existing data models and flows

Target Group

• SAP Business Warehouse customers

* For multiple systems, see Path 3
** Planned
SAP BW/4HANA Transfer Toolbox

**In-Place Conversion**

- Full system conversion of an existing SAP BW installation (keep same SID)
- Step-by-step in-place transfer of classic objects into their HANA-optimized counterparts
- Followed by a system conversion to SAP BW/4HANA
- Minimum start release: SAP BW 7.5 SP 5 powered by SAP HANA

**Remote Conversion**

- Start with SAP BW/4HANA as green field installation (new SID)
- Support of carve-out and consolidation scenarios
- Transport data models and remote data transfer (including Unicode conversion)
- Risk mitigation due to parallel system
- Minimum start release: SAP BW 7.0 or higher on AnyDB

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Preparing to Move to SAP BW/4HANA
SAP Note 1909597

1. Check Your BW System Before /After Migrating to SAP HANA
2. Size via Automated Sizing Tool
3. Lower TCO by Leveraging Non-active Data Concept and Off-loading Data to Near-line Storage
4. Perform Housekeeping Task Regularly
5. Leverage Automated Task Lists
6. Validate SAP HANA Configuration, Check Table Consistency and Monitor Delta Merge
7. Convert Data Flows and InfoProviders
8. Check Best Practices for ABAP on SAP HANA
Path 2a: In-place Conversion
In-place Conversion
Path to Convert Your System

Step 1: Classic DB migration and upgrade to latest SAP BW release using DMO

Step 2: Implement add-on, use transfer tools to make system BW/4HANA-ready

Step 3: System conversion

SAP BW on any DB  SAP BW on SAP HANA  SAP BW 7.5 on SAP HANA + SAP BW/4HANA Starter Add-On  SAP BW/4HANA

All SAP BW customers can start NOW
Customers on SAP BW powered by SAP HANA have a head-start
Customers can convert at their own pace – benefiting gradually from HANA-optimizations
In-place Conversion
Basic Sequence

**Discover / Prepare Phase**
(1-2 weeks)

- **t₁** System Requirements
- **t₂** Maintenance Planner
- **t₃** Pre-Checks
- **t₄** Custom Code Check

**Explore / Realize / Deploy Phase**
(2-6 months)

- **t₅** In-place Conversion
- **t₆** System Conversion
- **t₇** Post Conversion Tasks
- **t₈** Go-Live

**Simplification List for SAP BW/4HANA**

**SAP Readiness Check** *

**SAP BW powered by SAP HANA**

**Downtime**

**SAP BW/4HANA**

*Planned
In-place Conversion
Migration to SAP BW powered by SAP HANA

Database Migration Option (DMO)
Upgrade/Migration/(Unicode) in ne technical step

BW Housekeeping Task
Smaller ROW store footprint in SAP HANA

SAP BW 7.5*
SAP HANA

SAP BW 7.x
any DB

SAP IQ

SAP Near-line Storage (NLS)
Smaller COLUMN store footprint in SAP HANA

* Original system is already Unicode with 7.0x
**In-place Conversion**
SAP BW/4HANA Starter Add-On

SAP BW/4HANA Starter Add-on (f.k.a. “SAP BW, edition for SAP HANA”) is prerequisite for In-Place Conversions. After the installation, the system can be set to the following modes:

- **BW Mode**
  - System works like regular SAP BW system without restrictions
  - Same as SAP BW/4HANA Starter Add-On not installed

- **Compatibility Mode**
  - Initial mode after SAP BW/4HANA Starter Add-On is installed
  - Unsupported object types cannot be created (but can be changed)
  - Existing scenarios can continue running as before
  - Unsupported objects can only be transported when adding them to a white list

- **B4H Mode**
  - No imports of unsupported object types and white list is not relevant any more
  - Only SAP BW/4HANA compatible objects available in the system
  - System is still working with the new objects, final preparation for the conversion is not done yet

- **Ready-For-Conversion**
  - Final preparation is done and system is ready for conversion
  - Some parts of the systems are not working any more (SAPI Source Systems, Virtual InfoProviders, BPC, ..)
  - Should be planned in a way that this step is entered right before the system conversion
In-place Conversion
Switching Modes in SAP BW

- When the SAP BW/4HANA Starter Add-on is installed, the system will be in Compatibility Mode
- Switching to BW Mode is only necessary in exceptional cases
- Switching to B4H Mode is only possible if all objects are compatible with SAP BW/4HANA
In-place Conversion
Process View

Compatibility Mode

- Scenario-wise in-place conversion
- Manual work finished
- BEx Query Designer disabled
- Exceptional incompatible scenarios will still run (e.g. VirtualProvider for BPC)
- System ready for conversion

Expected Length of Stay
Month(s) dep. on number of objects

B4H Mode

- Ready-for-Conversion

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In-place Conversion
Scenario Transfer

1. Scope selection
2. Convert classic objects and write to transport request
3. Move data
4. System conversion to SAP BW/4HANA

Repeat steps 1 to 3, and 5 to 9 until all objects are compatible with SAP BW/4HANA

5. Transfer scope from 1
6. Convert classic objects
7. Move data
8. Import transport request (replay manual changes)
9. System conversion to SAP BW/4HANA

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In-place Conversion
Meta Data and Data Conversion

Before Transfer (SAP BW)

- Query
  - MultiProvider (ZREPORTING)
    - InfoCube (no nav. attributes) (ZDATAMART)
      - DataStore (Classic) (ZSTAGING)

After Transfer (SAP BW and SAP BW/4HANA)

- Query
  - CompositeProvider (ZREPORTING)
    - DataStore (Advanced) (ZDATAMART)
      - DataStore (Advanced) (ZSTAGING)
DataStore Objects (advanced) do not contain any settings regarding navigational attributes.

If navigational attributes are configured for an InfoCube or classic DataStore Object and used in at least one query, then the conversion process will introduce a new Composite-Provider which contains the corresponding attributes.

Queries will then reference the CompositeProvider.

Reasons:
- Clear separation of virtual and persistency layers
- Option to create different CompositeProviders with different nav. attributes

In-place Conversion: Meta Data and Data Conversion

Before Transfer (SAP BW)

InfoCube or Classic DSO (with nav. attributes) ZDATAMART

After Transfer (SAP BW and SAP BW/4HANA)

DataStore (Advanced) ZDATAMART

CompositeProvider (with nav. attributes) ZNEWHCPR

Virtual Layer

Persistency Layer

Automatic Data Transfer

Query

Query
**In-place Conversion**

**PSA Conversion**

Before Transfer (SAP BW):
- **DataStore (Classic)**: ZDSO
- **PSA**: /BIC/B....
- **DataSource**: ZSOURCE

After Transfer (SAP BW and SAP BW/4HANA):
- **Option 1**: Replace PSA with DSO
  - **DataStore (Advanced)**: ZDSO
- **Option 2**: Skip PSA
  - **DataStore (Advanced)**: ZDSO
Pre-check Tool
Look and Feel
In-place Conversion
Look and Feel

Starting SAP BW/4HANA Transfer Toolbox Allows to Choose Between In-place and Remote

Task List for In-place Conversion

“Do not show” flag is stored in table RSUSERANSWERS
Path 2b: Remote Conversion
What

• Install SAP BW/4HANA, transfer data models and data using transfer toolbox, and transport custom developments (might need adjustments to work with SAP BW/4HANA).

How

• Software Provisioning Manager (SWPM), SAP BW/4HANA Transfer Toolbox

* Move from on premise to cloud is not part of the conversion process
Remote Conversion
Basic Sequence

Discover / Prepare Phase
(1-2 weeks)

System Requirements
Maintenance Planner
Pre-Checks
Custom Code Check
Simplification List for SAP BW/4HANA
SAP Readiness Check *

Explore / Realize / Deploy Phase
(2-6 months)

System Provisioning
Remote Conversion
Post Conversion Tasks
Go-Live
Installation
DMIS Add-on
Transfer Toolbox
Custom Code Adjustments

Remote Conversion
Basic Sequence

SAP BW on Any Database
SAP BW/4HANA

* Planned
Remote Conversion
Scenario Transfer

1. Scope Selection
2. Transport selected objects
3. Convert classic objects in after-import and adjust DTP and TRFN
4. Transfer data

Repeat steps 1 to 3 until all scenarios are transferred

5. Transport converted objects

6. Transfer Scope
7. Transport selected objects *
8. Convert classic objects in after-import and adjust DTP and TRFN
9. Transfer data

* Transport of copies to move objects created directly in production
Remote Conversion
Meta Data Conversion (Same as for In-place)

Persistency Layer

- Classic DataStore (ZSTAGING)
- InfoCube (with nav. attributes) (with nav. attributes) (ZDATAMART)
- MultiProvider (ZREPORTING)

Virtual Layer

- CompositeProvider (with nav. attributes) (ZNEWHCPR)
- CompositeProvider (ZREPORTING)
- DataStore (Adv.) (ZDATAMART)
- DataStore (Adv.) (ZSTAGING)

Sending System (SAP BW)

Receiving System (SAP BW/4HANA)
Remote Conversion
Example for Data Transfer

Sending System (SAP BW)

- InfoCube
- Classic DataStore
- Characteristic
- Request Metadata (RSSM)

Receiving System (SAP BW/4HANA)

- DataStore (Adv.)
- DataStore (Adv.)
- Characteristic
- Request Metadata (RSPM)

Cluster Tables

Read Report

RFC Transfer
(if necessary, including Unicode conversion)
Remote Conversion
PSA Conversion

Option 1:
Replace PSA with DSO

Option 2:
Skip PSA

Sending System (SAP BW)

Receiving System (SAP BW/4HANA)

* SAP Note 2533946
Remote Conversion
Challenges for Creating a Parallel Productive SAP BW/4HANA System

Challenges

- SAP BW/4HANA system shall be used productively for system conversion (risk & runtime mitigation)
- Both systems shall be operated in parallel temporarily, hence data supply must be synchronized
- Delta management in the source systems must be made aware of new SAP BW/4HANA system
- Source systems must not have any downtime (data booking must not be interrupted)

Solution

- Delta queue cloning and synchronizing
Remote Conversion
Automated Delta Queue Cloning and Synchronizing

Scope
- Enable SAP BW/4HANA system to use same source systems (remote connection)
- Prepare to easily bring new SAP BW/4HANA system in consistent state regarding data loading
- Minimal downtime of original SAP BW system
- Parallel operation (temporarily) of both systems and comparison of performance possible

Key Features of Remote Conversion
- Automatic delta queue cloning
- Checks for consistent delta states
- Automatic synchronization of both delta queues
- No downtime in productive source systems
Remote Conversion

Look and Feel

SAP BW/4HANA Conversion Cockpit

Remote Conversion Task List

Remote Conversion Process Tree - Highlighted are the activities to call and execute steps present in Transfer Tool task list
Path 3: Landscape Transformation
SAP BW/4HANA – Path 3  *
Landscape Transformation

Scenario Description

• Customers who want to consolidate their SAP BW landscape (multiple production systems) or carve out selected data models or flows into a global SAP BW/4HANA system
• Customer-specific conversion project re-using standard tools (planned service offering from SAP’s Data Management & Landscape Transformation group)

Benefits for Customers

• Stay with current data warehouse landscape and move gradually to SAP BW/4HANA innovations
• Harmonized data models and shared master data through consolidation
• Carve out of single entities of the company to SAP BW/4HANA and leverage process simplification

Target Group

• SAP customers with multiple SAP BW, or SAP BW on SAP HANA systems, or hybrid cases

* Planned

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**Landscape Transformation**

Customers who want to consolidate their SAP BW landscape (multiple production systems) or carve out selected data models or flows into a global SAP BW/4HANA system

Customer-specific conversion project re-using standard tools

Expert consulting highly recommended

Planned service offering from SAP’s Data Management & Landscape Transformation group

→ Plan is to use a combination of one in-place conversion and one or more remote conversions
Availability and Outlook
# Availability Matrix for SAP BW/4HANA Transfer Toolbox

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Last update: 2017-10-01

**Preparation:** Install via SAP BW Note Analyzer (SAP Note [2383530](#))

**In-place Conversion:** Install via SAP BW Note Analyzer (SAP Note [2383530](#)) and pilot note (SAP Note [2500045](#))

**Remote Conversion:** Install via SAP BW Note Analyzer (SAP Note [2383530](#)) and DMIS Add-on (SAP Note [2513088](#))
**Availability of SAP BW/4HANA Transfer Toolbox**

The system conversion (in-place and remote) is available as pilot program. If you want to participate in that program, please get in touch with your local SAP consultant or use the SAP Support Portal, component “BW-B4H-CNV” to initiate the first contact.

For details, please see SAP Note 2383530
**Recent Innovations (2017)**

Customers can convert an existing system running on SAP HANA.

Will be made available via notes for SAP BW 7.5 SP 5 or higher.

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**Shared Features**

Legacy functionality gets transferred into HANA-optimized counterparts.

Customer exits are scanned for incompatible usages.

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**Recent Innovations (2017)** continued

Customers can convert systems on SAP BW >= 7.0 on Any-DB.

Conversion projects will be driven by SAP Data Management & Landscape Transformation group.

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**Remote Conversion**

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**Product Direction (2018/19)**

Enhanced data verification capabilities.

Performance enhancements for data transfer.

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**Planned Innovations (Q1/2018)**

Collection of statistic data.

More tool-based guidance.

Major add-ons available for SAP BW/4HANA (enable upgrade path).

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**Shared Features** continued

Complete set of supported scenarios (Semantically Partitioned Objects, InfoSets, etc.)

Transfer of SAP BPC to SAP BPC, version for SAP BW/4HANA (see next slide).

Transfer of standard authorizations.

Transfer Near-line-Storage based on SAP IQ / Hadoop.

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**Remote Conversion** continued

Enhanced monitoring capabilities.

Simplified guided process steps.

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**Product Direction (2018/19)** continued

Comfort functions like code replacement in customer exits.

Check tool for Analysis Process Designer (APD).

Data model optimizations.

SAP BW/4HANA Conversion Cockpit released for partners.

Troubleshooting functions.
Simplified Data Warehousing
SAP BW/4HANA - Removed Legacy Functionality

**SAP BW**

- BEx Analyzer, BEx Web Templates, BEx Tools
- BW Query (BEx Query Designer)
- Classic Object Types (InfoCube, DSO, MultiProvider, InfoSet, …)
- SAPGUI Modeling & Workbench
- Source System types DB Connect, Extractor (S-API), BW
- Source System types UD Connect, Data Services, Partner ETL
- BI Content Packages
- PSA / InfoPackages
- Easy Query
- Analysis Process Designer
- Virtual InfoProvider
- Near-line Storage Partner Solutions

**SAP BW/4HANA**

- SAP Analytic Cloud or SAP BusinessObjects Clients & Tools
- BW Query (BW Modeling Tools Query Designer)
- New Object Model: DataStore Object (adv.) & CompositeProvider
- SAP HANA Studio based BW Modelling Tools
- Consolidation to new HANA Source System & ODP
- Consolidation to new HANA Source System
- New HANA-optimized SAP BW/4HANA Content Packages
- Operational Delta Queue, field-based DataStore Object (adv.)
- OData Query
- HANA Analysis Process, new Data Flow
- HANA Calculation Views, Open ODS View
- New HANA-based Data Temperature Management with SAP IQ & Hadoop
Important Prerequisites for Customers SAP BW → SAP BW/4HANA

Add-on Handling

- SAP BPC 11, version for SAP BW/4HANA is available (includes BW-IP/PAK)
- Currently no other “application” add-ons are supported on SAP BW/4HANA (SEM, DSiM, POSDM, TPM,…). Individual roadmaps for SAP BW/4HANA-compliant add-on versions to be published
- See SAP Note 2189708 for details about supported add-ons
  See SAP Note 2011192 for details about uninstalling add-ons
- For remote conversion, the DMIS add-on is needed on SAP BW and SAP BW/4HANA systems

Certification

- Certification program for various interfaces is available (e.g. 3rd party BI clients, Open Hub, …)
  See SAP Blog for details
Biggest Changes for Customers SAP BW → SAP BW/4HANA

- SAP BW/4HANA is not delivered via the SAP NetWeaver stack. The underlying platform is SAP HANA and the ABAP application server (DW4CORE, SAP_BASIS, SAP_ABA, SAP_UI, SAP_GWFND)

- More than 5 millions lines of SAP BW code have been deleted. Impact on customer code where non-released ABAP interfaces/code is used

- Some minor changes to official interfaces (e.g. RSNDI, RSDRI)

- Deletion of old/obsolete customer exits (CMOD) and BAdI methods, e.g. for exit variables. Replaced by corresponding enhancement spots

- Switch to new request management for all staging/load processes

- SAP HANA-generated views are Calculation Views only ("OneView" Model)

- BW Workspaces are only available via Business Client (not as SAP Portal role)
Simplified Transition for SAP Business Explorer (BEx)
New Options for Customers

SAP BEx Analyzer

– Semi-automated transition of SAP BEx Analyzer Workbooks to SAP Analysis Office is available as a **service offering**
– For more details, see the following [blog](#)

SAP BEx Web Applications

– Planned support for **temporary use** of the existing SAP BEx Web Applications in SAP BW/4HANA through a dedicated **pilot program**
– Exclusively available with the **In-Place Conversion** to SAP BW/4HANA 1.0 SP 6 or higher (support for a limited time until end of 2019)
– For more details, see SAP Note [2496706](#)
SAP BW/4HANA Simplification List

– Consolidated list and description of delta between SAP BW (as of 7.0) and SAP BW/4HANA

– Each Simplification Item is documented in an SAP Note which includes recommendations on how to handle the change

– Goal is to allow customers better planning and estimation of their way to SAP BW/4HANA

– List is published on help.sap.com/bw4hana10 as PDF and in XLS format attached to SAP Note 2421930 (which links to all available Simplification Notes)

– List is or will be foundation for other tools: SAP Readiness Check, Maintenance Planner, Pre-Checks, Custom Code Analysis
Simplification Item Catalog provides customers with a description of all relevant changes that might have an impact when converting SAP BW to SAP BW/4HANA. Within each topic, which is referred to as a "simplification item", corresponding SAP Notes and mitigation possibilities are documented.

https://launchpad.support.sap.com/#/sic
Sneak Peek:
SAP Readiness Check for SAP BW/4HANA
A holistic system analysis is the foundation for further planning steps towards a successful and smooth system transition to SAP BW/4HANA. The SAP Readiness Check for SAP BW/4HANA is a self-service and summarizes the most important aspects of the conversion in an easy consumable way.

https://help.sap.com/viewer/p/SAP_READINESS_CHECK
https://launchpad.support.sap.com/#/readiness
Discovery Workshop for SAP BW/4HANA

The discovery workshop for SAP BW/4HANA helps customers identify crucial benefits and suggested approaches for their road to SAP BW/4HANA in order to leverage latest functional and technical innovations and move forward to the future-proof, scalable and high performance enterprise data warehousing platform by SAP.

Business Needs
- Evaluate possible transition scenarios towards SAP BW/4HANA for increased predictability
- Identify areas of added value due to functional and technical innovations
- Ensure security of investment by planning the road to the future data warehousing platform

Delivery Approach and Scope
- Acquisition of relevant, available system and customer information during a preparation phase
- Introduction to innovations, suggested approaches and findings from preparation phase during a 2-day onsite workshop
- Handover of workshop findings to customer
- Proposal and alignment on next steps on the road to SAP BW/4HANA
- Understanding of SAP’s data warehousing and reporting portfolio, roadmap and strategy

Value and Benefits
- Increased predictability of implementation projects and system conversion and transition scenarios
- First guidance on and better understanding of SAP’s future data warehousing vision and insights in the value of adopting
Thank You.

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