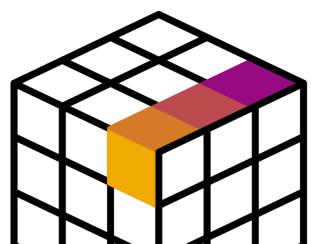


Update – Conversion from SAP BW to SAP BW/4HANA

Marc Bernard Chief Architect, Product Management, SAP Data Warehousing October 3, 2017

EXTERNAL





Disclaimer

The information in this presentation is confidential and proprietary to SAP and may not be disclosed without the permission of SAP. Except for your obligation to protect confidential information, this presentation is not subject to your license agreement or any other service or subscription agreement with SAP. SAP has no obligation to pursue any course of business outlined in this presentation or any related document, or to develop or release any functionality mentioned therein.

This presentation, or any related document and SAP's strategy and possible future developments, products and or platforms directions and functionality are all subject to change and may be changed by SAP at any time for any reason without notice. The information in this presentation is not a commitment, promise or legal obligation to deliver any material, code or functionality. This presentation is provided without a warranty of any kind, either express or implied, including but not limited to, the implied warranties of merchantability, fitness for a particular purpose, or non-infringement. This presentation is for informational purposes and may not be incorporated into a contract. SAP assumes no responsibility for errors or omissions in this presentation, except if such damages were caused by SAP's intentional or gross negligence.

All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates, and they should not be relied upon in making purchasing decisions.

Agenda

Simplified Data Warehousing

Path 1: New Installation

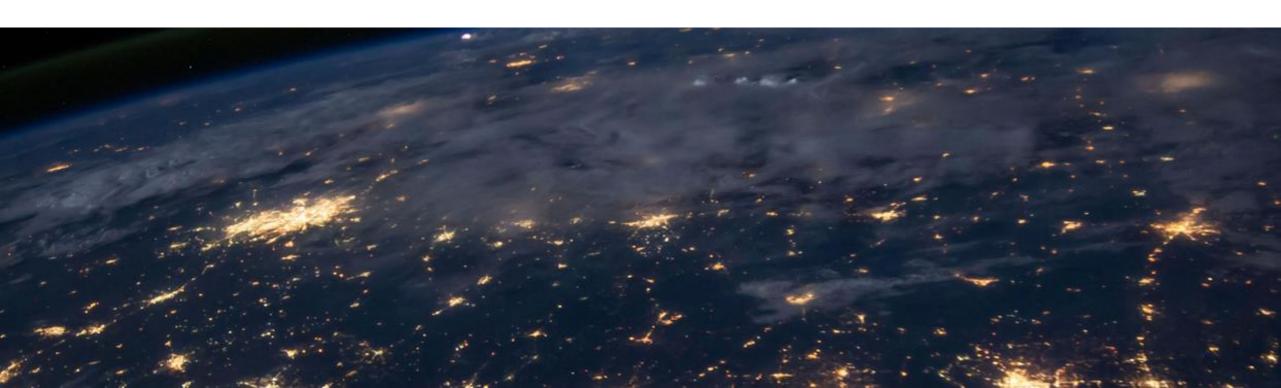
Path 2: System Conversion

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

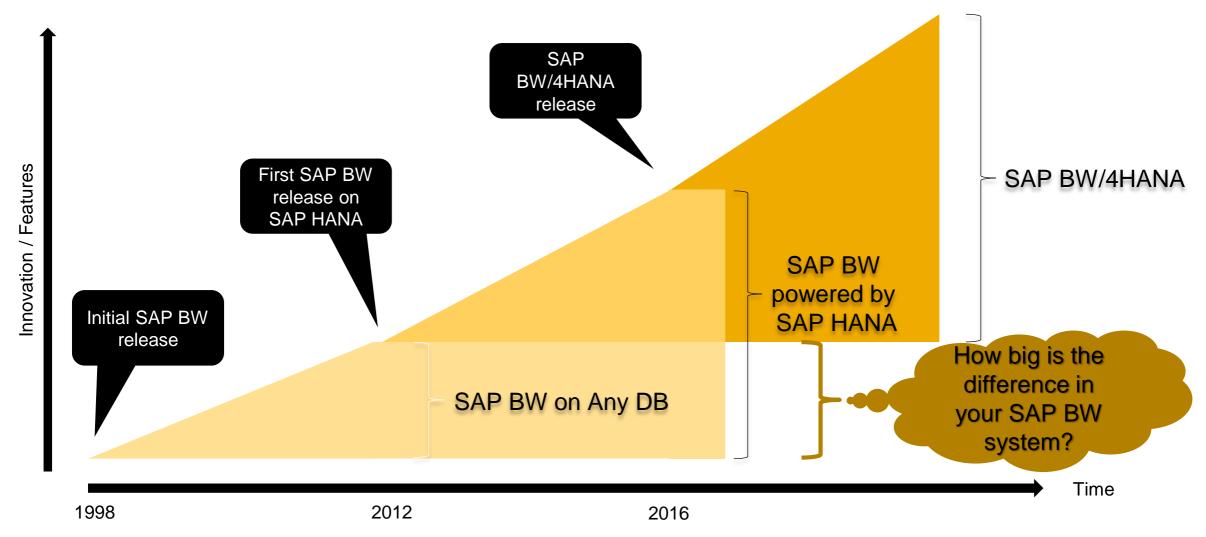
Path 3: Landscape Transformation

Summary

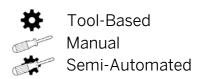
Simplified Data Warehousing



SAP BW/4HANA is the Innovation Code Line



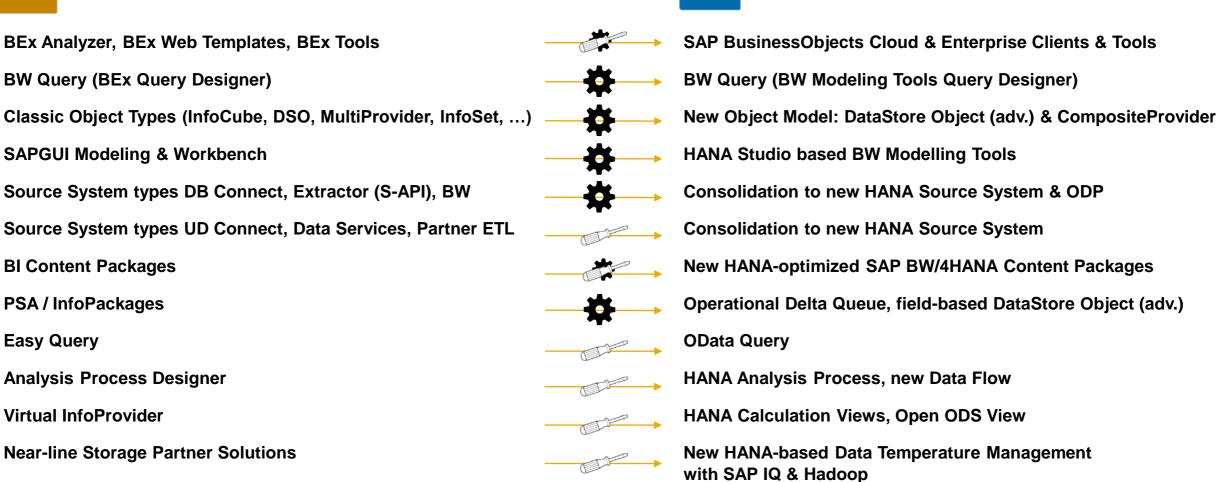
SAP BW/4HANA - Removed Legacy Functionality



SAP BW/4HANA



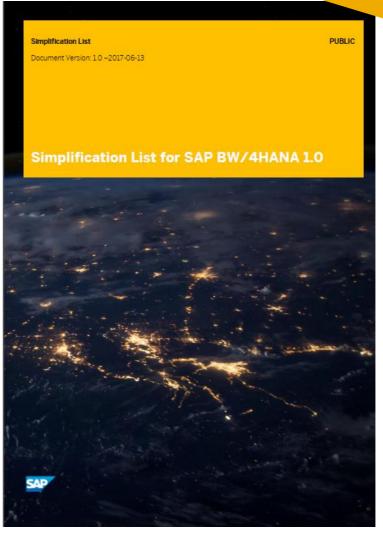
SAP BW



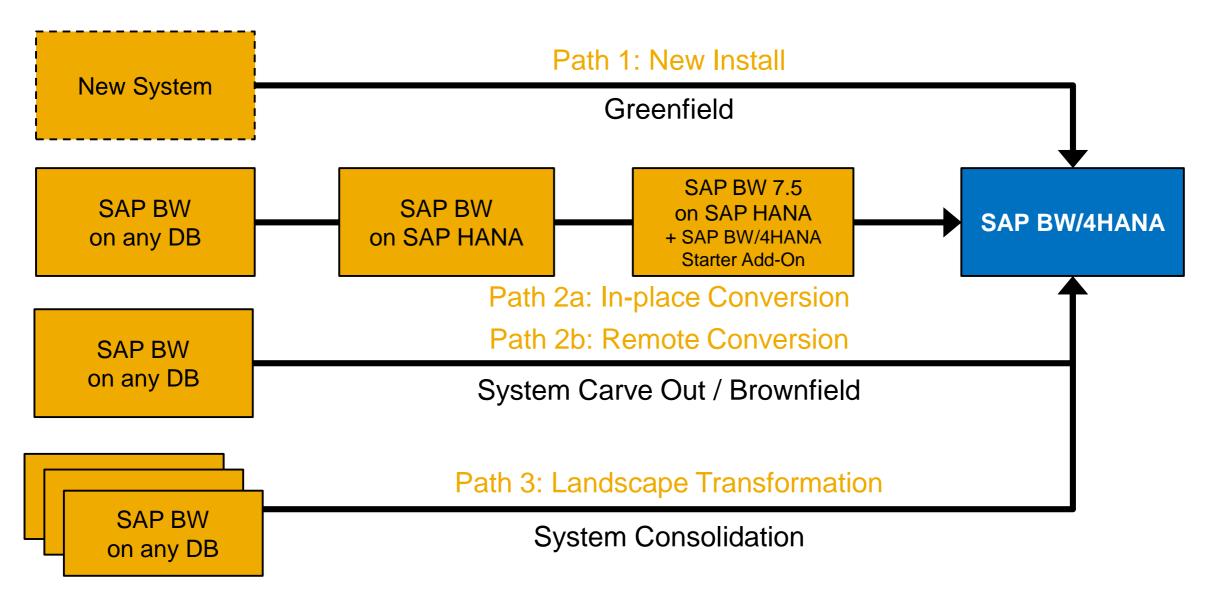
SAP BW/4HANA Simplification List

- 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 <u>published</u> on <u>help.sap.com/bw4hana10</u> as PDF and in XLS format attached to SAP Note <u>2421930</u> (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

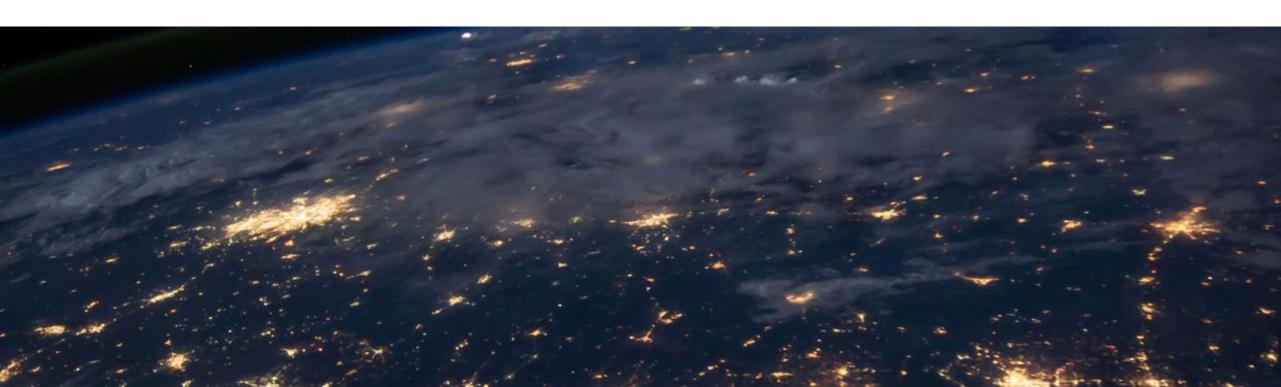
Available Now



Paths to SAP BW/4HANA

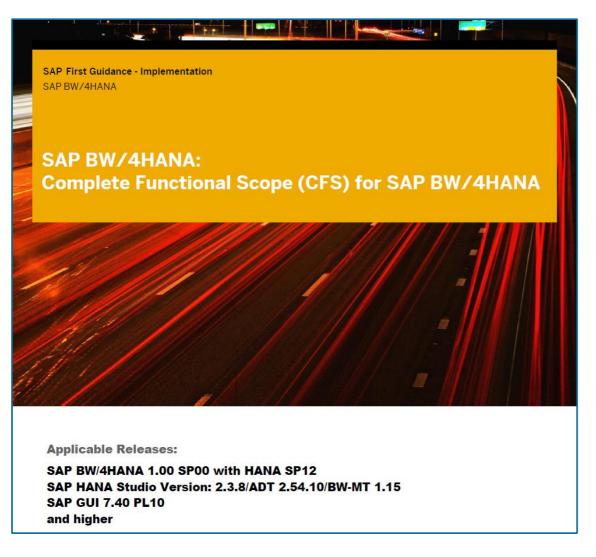


Path 1: New Installation



SAP BW/4HANA

New Implementation - SAP First Guidedance for SAP BW/4HANA

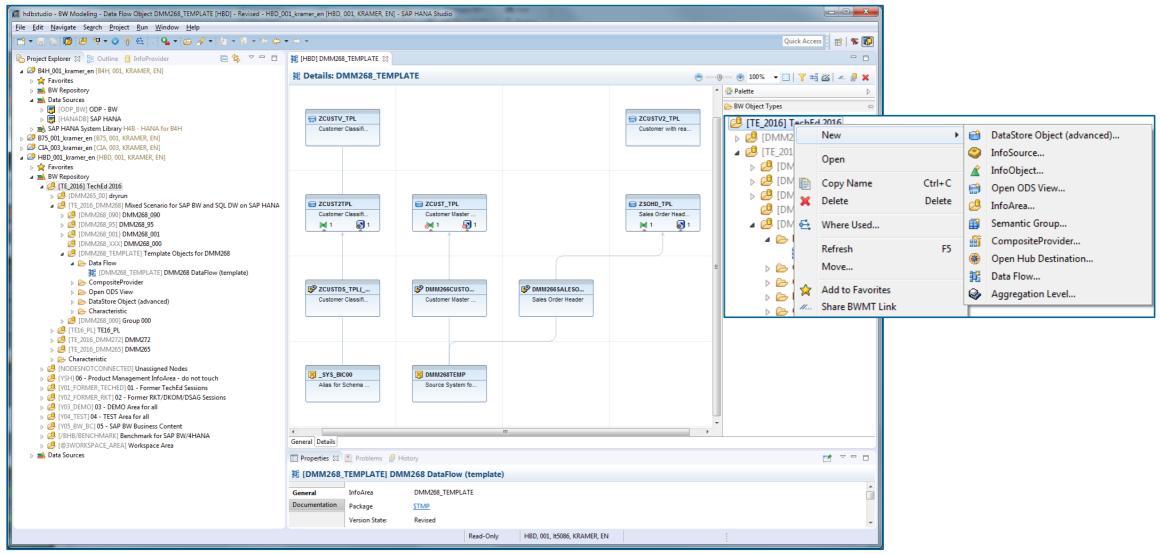


SAP BW/4HANA

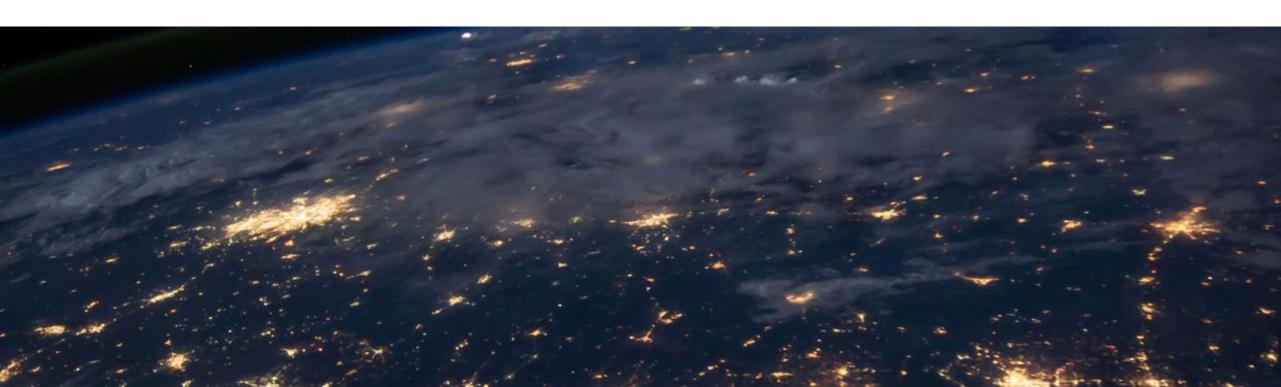
- is a new data warehouse solution
- is highly optimized for SAP HANA with leaner component stack
- No Java stack required
- SAP BW/4HANA modelling environment built to run on SAP HANA
- All new SAP BW 7.5 developments on SAP HANA can be used without changes
- This <u>SAP First Guidance Document</u>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

SAP BW/4HANA

New Implementation - Design via BW Modeling Tools Only



Path 2: System Conversion



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

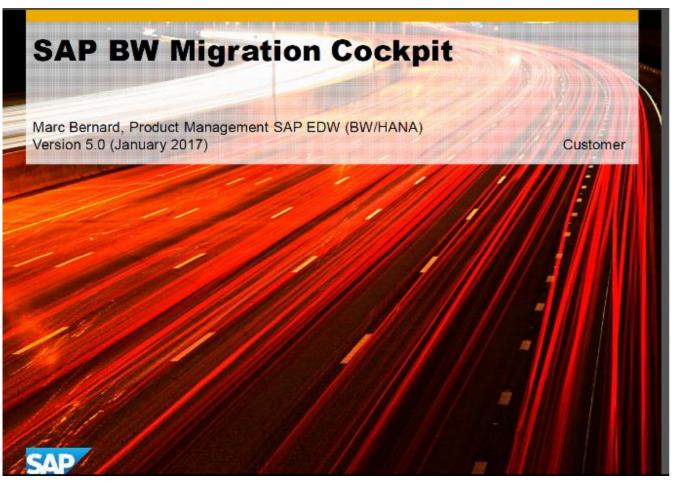


Remote Conversion

- 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

Preparing to Move to SAP BW/4HANA

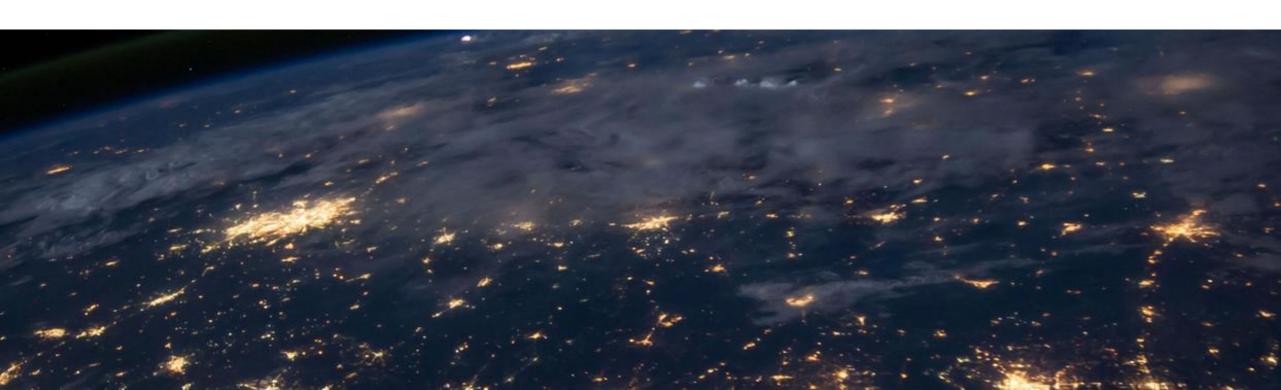
SAP Note <u>1909597</u>





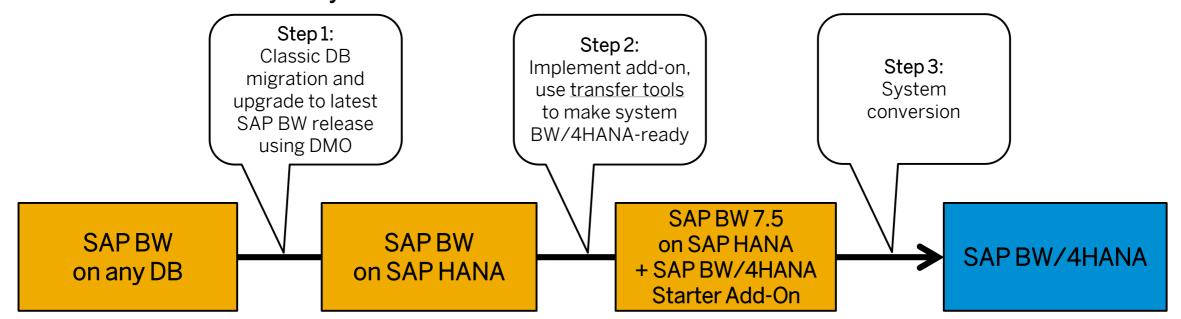
- Check Your BW System Before / After Migrating to SAP HANA
- 2. Size via Automated Sizing Tool
- 3. Lower TCO by Leveraging Non-active Data Concept and Off-loading Data to Near-line Storage
- 4. Perform Housekeeping Task Regularly
- 5. Leverage Automated Task Lists
- Validate SAP HANA Configuration,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

Path 2a: In-place Conversion





Path to Convert Your System



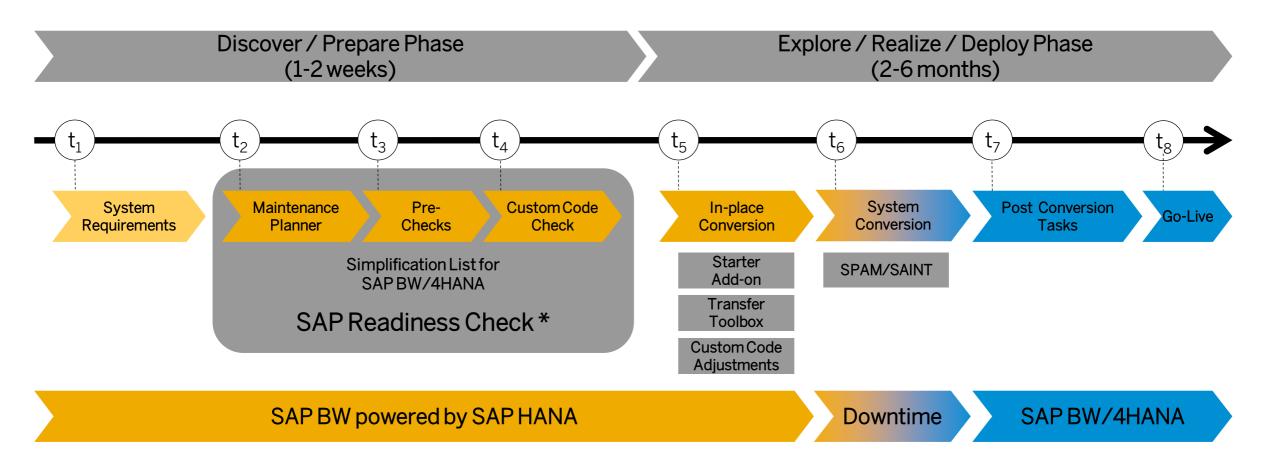
All SAP BW customers can start NOW

Customers on SAP BW powered by SAP HANA have a head-start

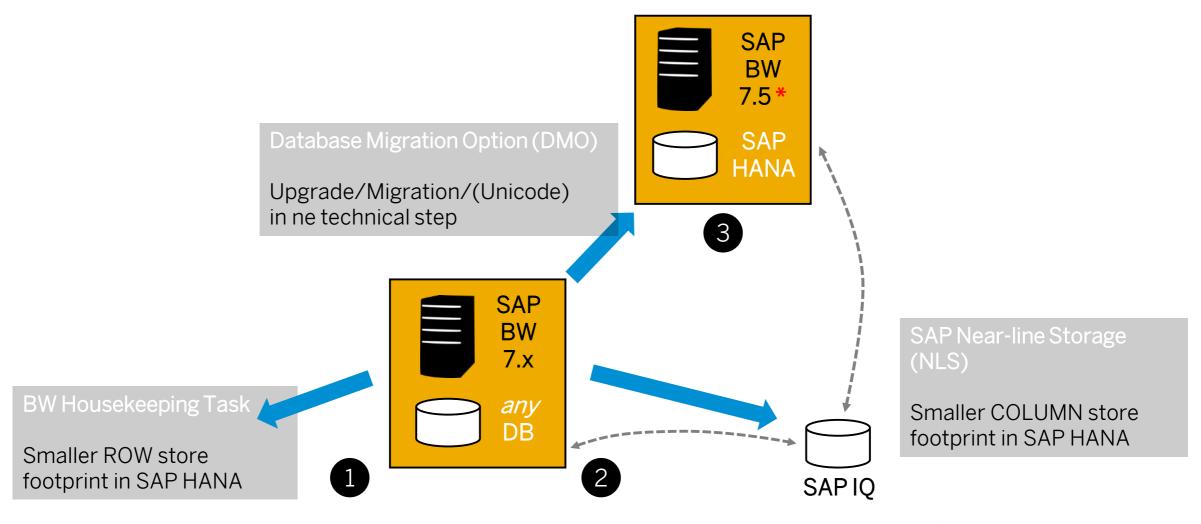
Customers can convert at their own pace – benefiting gradually from HANA-optimizations

Basic Sequence





Migration to SAP BW powered by SAP HANA



^{*} Original system is already Unicode with 7.0x

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 Conversion Ready-ForConversion

- System works like regular SAP BW system without restrictions
- Same as SAP BW/4HANA
 Starter Add-On not installed
- Initial mode after SAP BW/4HANA Starter Add-On is installed
- Unsupported object types cannot be created
 - Existing scenarios can continue running as before
 - Unsupported objects can only be transported when adding them to a white list

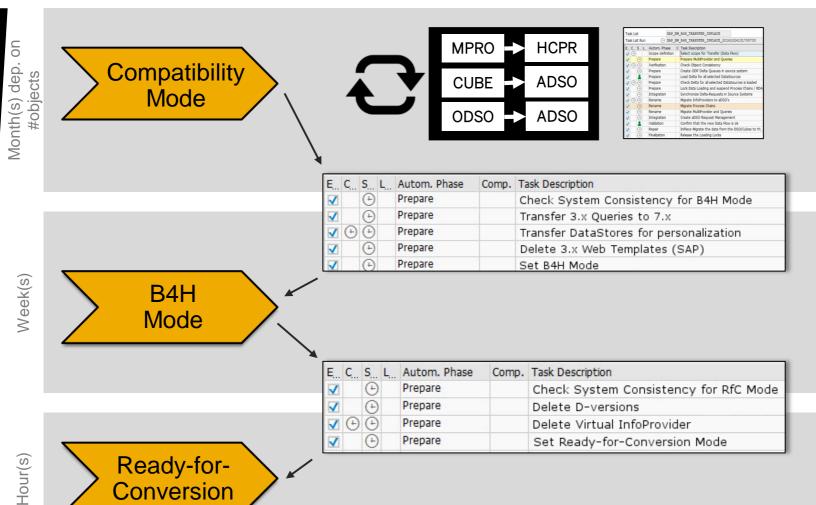
- No imports of unsupported object types and white list is not relevant any more
- Only SAP BW/4HANA compatible objects available in the system
- System is still working with the new objects, final preparation for the conversion is not done yet

- 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

Process View







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

Scenario Transfer



- Scope selection
- Convert classic objects and write to transport request
- Move data
- System conversion to SAP BW/4HANA

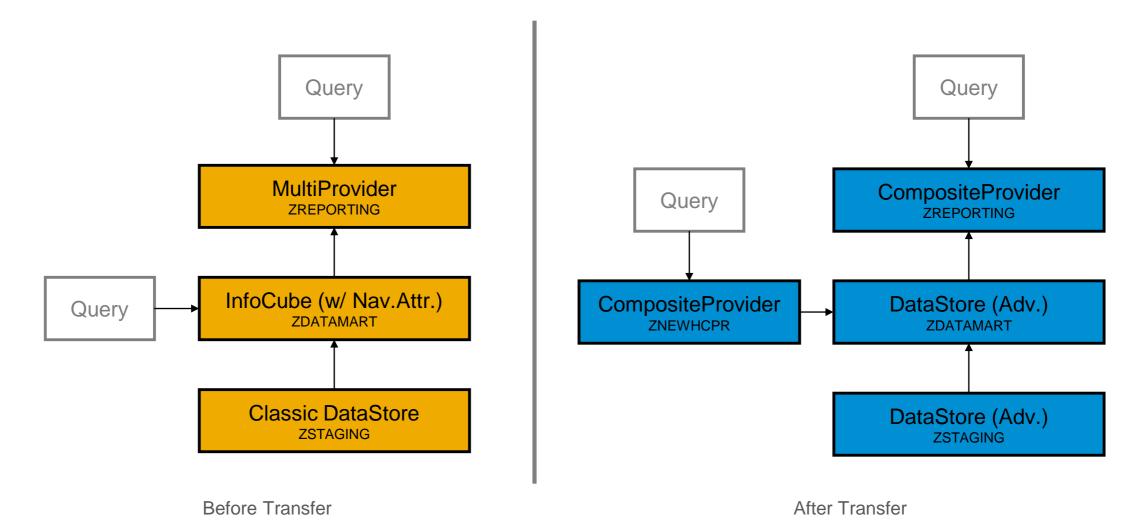


- Transfer scope from •
- 6 Convert classic objects
- Move data
- 8 Import transport request (replay manual changes)
- System conversion to SAP BW/4HANA



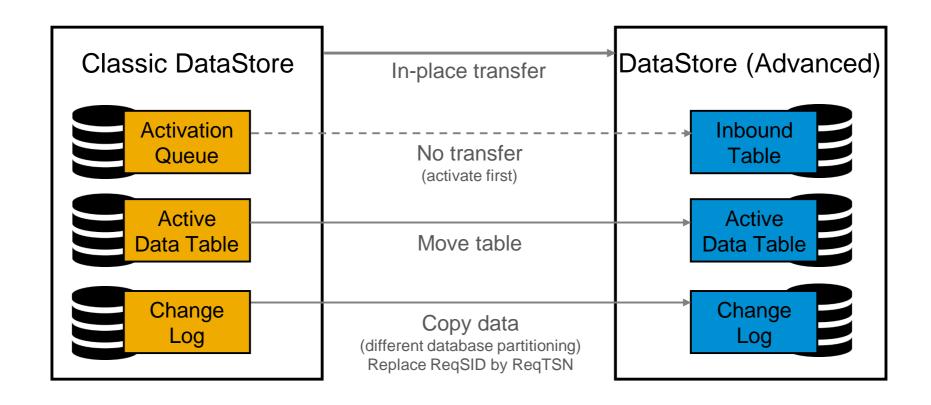
Meta Data Conversion





Example for Data Transfer

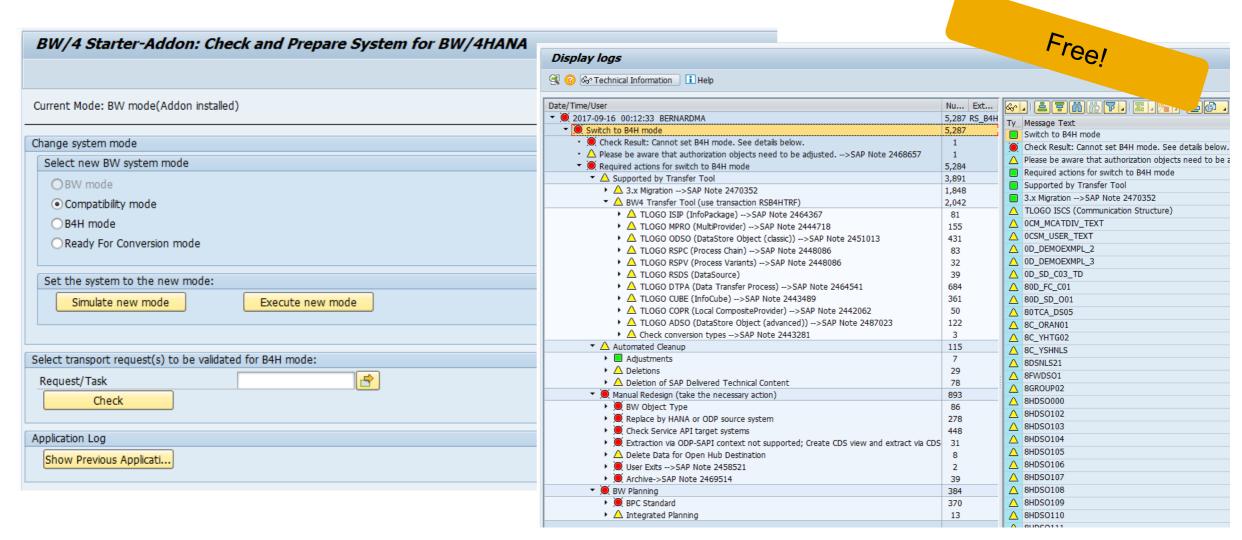




Pre-check Tool

Look and Feel

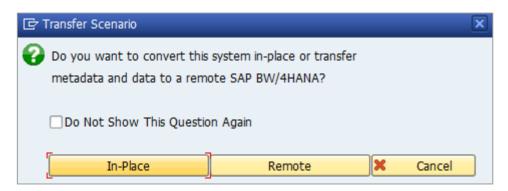




Look and Feel

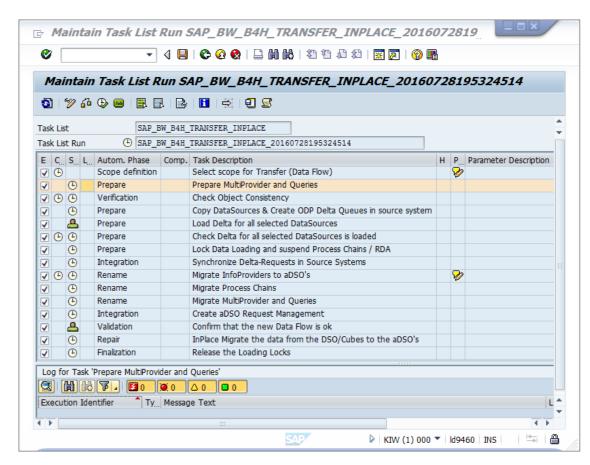


Starting SAP BW/4HANA Transfer Toolbox Allows to Choose Between In-place and Remote



"Do not show" flag is stored in table RSUSERANSWERS

Task List for In-place Conversion

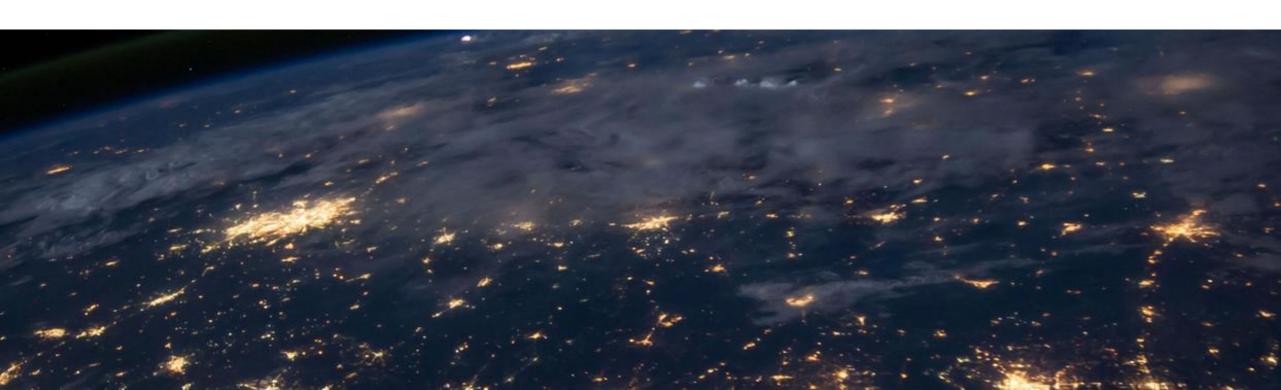


Demo



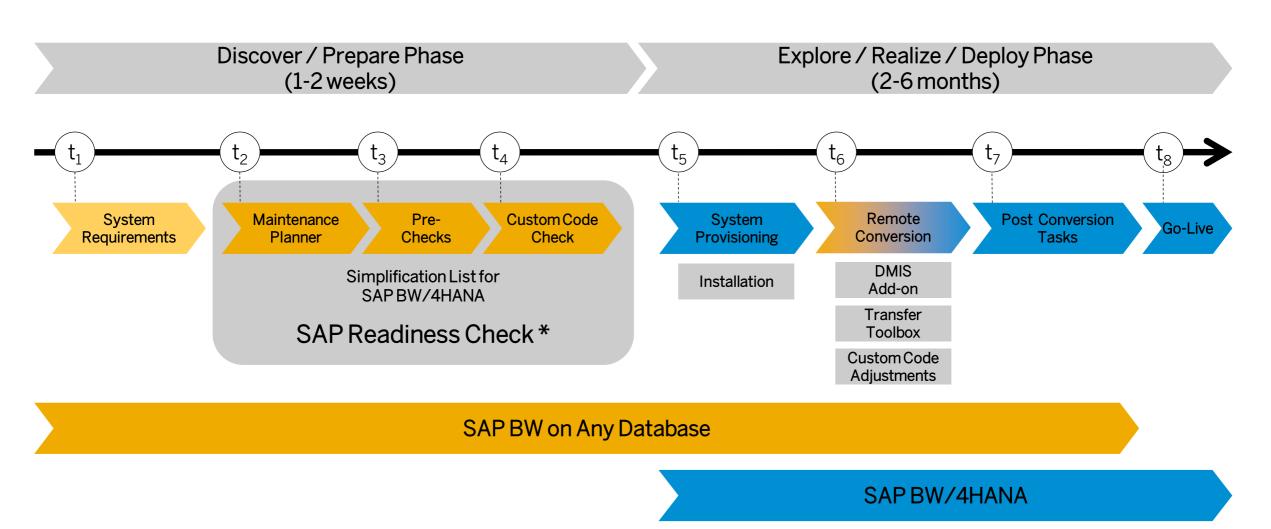
In-place Conversion

Path 2b: Remote Conversion



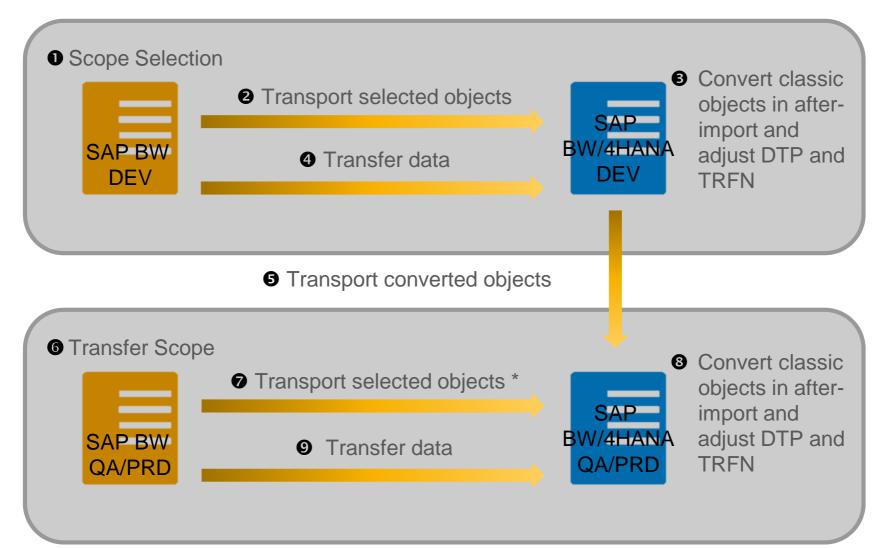
Basic Sequence





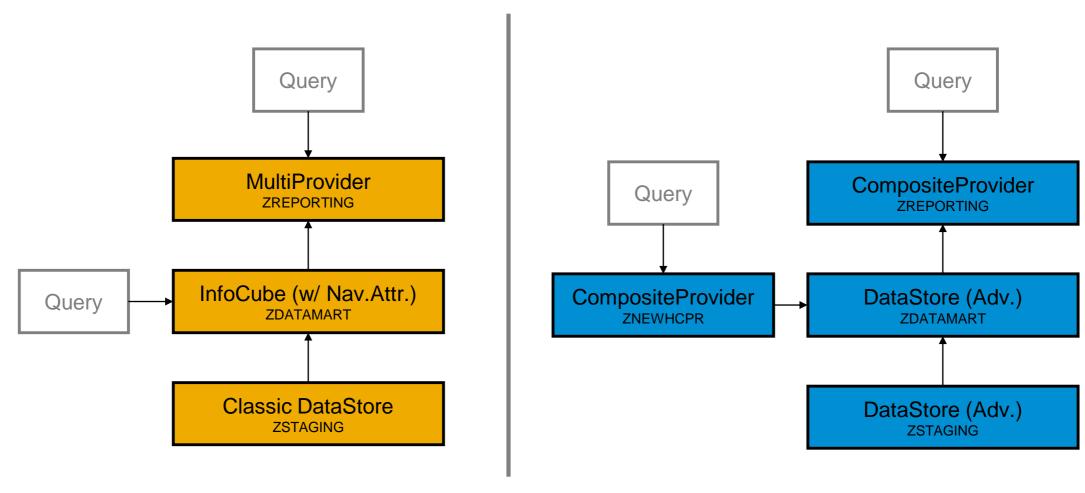
Scenario Transfer





* Transport of copies to move objects created directly in production

Meta Data Conversion (Same as for In-place)

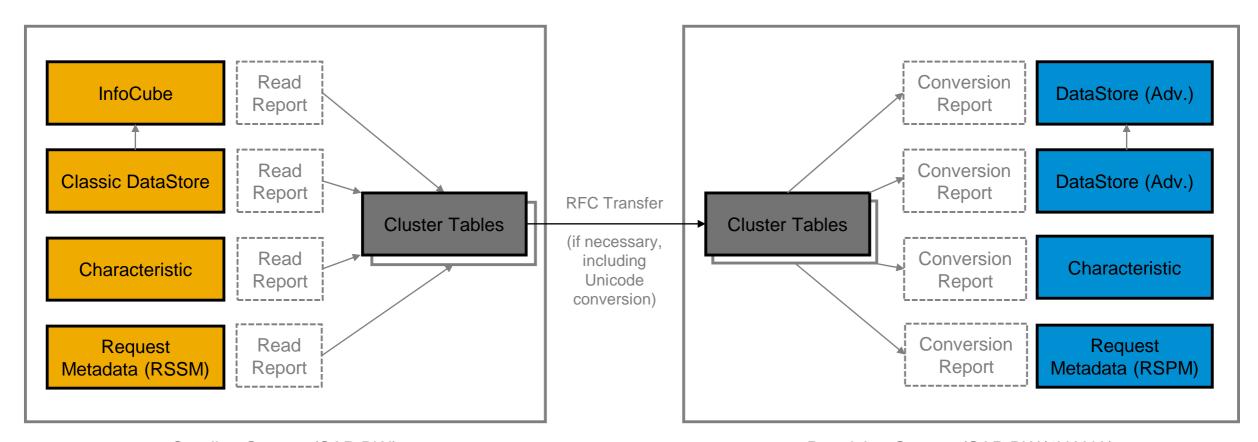


Before Transfer (SAP BW)

After Transfer (SAP BW/4HANA)

Example for Data Transfer





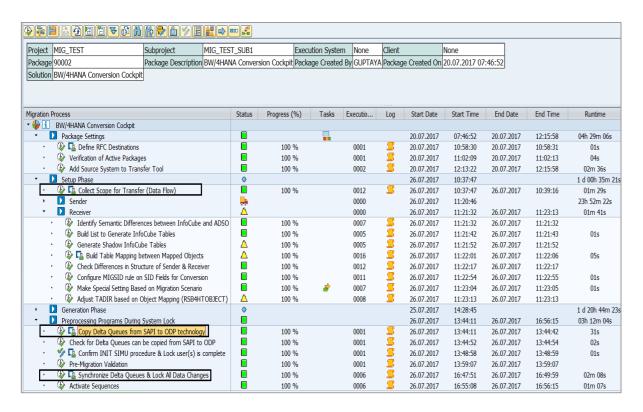
Sending System (SAP BW)

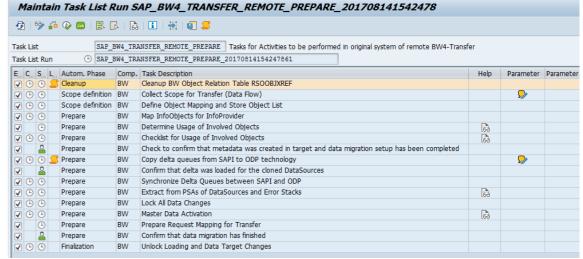
Receiving System (SAP BW/4HANA)

Look and Feel

Remote Conversion Task List

SAP BW/4HANA Conversion Cockpit

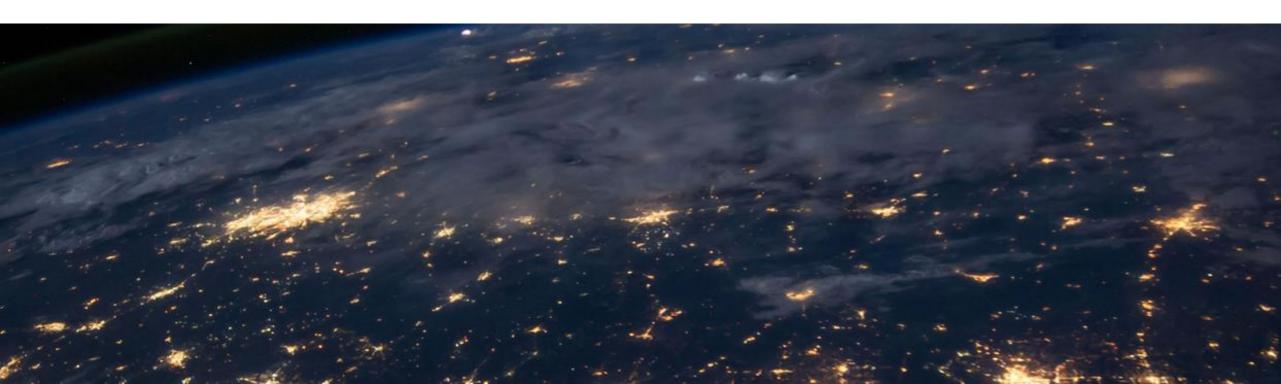




Remote Conversion Process Tree - Highlighted are the activities to call and execute steps present in Transfer Tool task list



Excerpt: Conversion to SAP BPC 11 version for SAP BW/4HANA



SAP BW/4HANA Transfer Toolbox for BPC



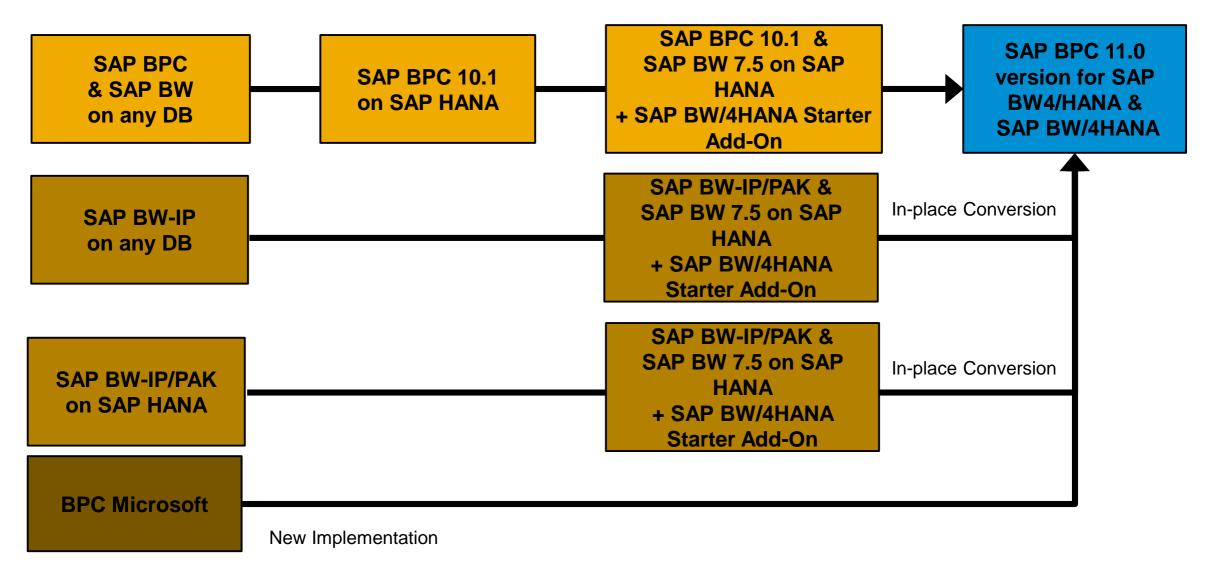
- Minimum start release:
 SAP BW 7.5 SP 9 powered by SAP HANA
- Full system conversion of an existing SAP BW installation (keep same SID)
- Step-by-step in-place transfer of classic objects into their HANA-optimized counterparts
- Followed by a system conversion to SAP BW/4HANA + SAP BPC 11.0 version for SAP BW4/HANA (add-on)



Remote Conversion

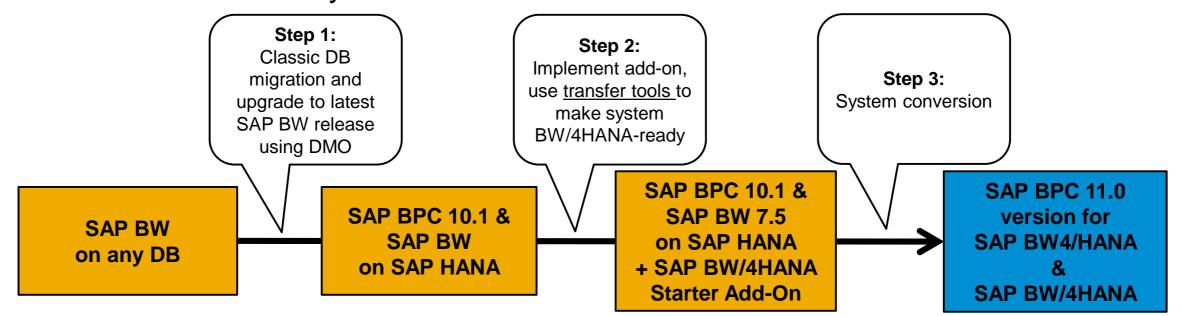
- Minimum start release:
 SAP BW 7.0 or higher on Any DB for embedded
 SAP BPC 10.0 or higher
- Start with SAP BW/4HANA as green field installation
- Support of carve-out and consolidation scenarios
- Transport data models and remote data transfer (including Unicode conversion)
- Risk mitigation due to parallel system

Paths to SAP BPC 11.0 version for SAP BW4/HANA





Path to Convert Your System



All SAP BPC customers can start NOW

SAP BPC customers on SAP BW powered by SAP HANA have a head-start

Customers can convert at their own pace – benefiting gradually from HANA-optimizations

Path to SAP BPC 11.0 version for SAP BW4/HANA

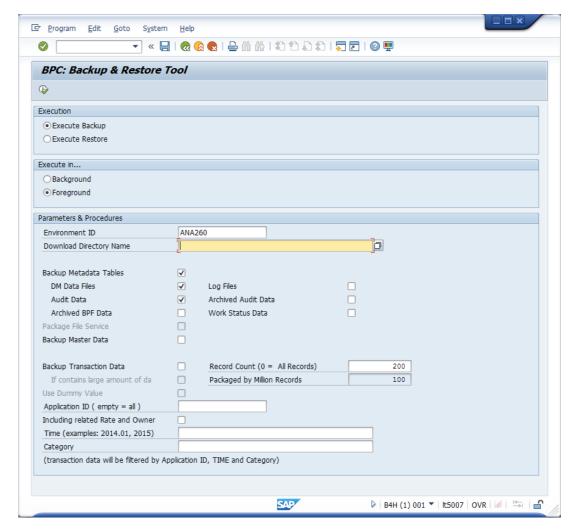


Supported Scenarios

SAP BPC Backup & Restore Tool supports the following scenarios (transaction UJBR):

BPC Standard Model

Remote conversion



Path to SAP BPC 11.0 version for SAP BW4/HANA

Planned Scenarios



SAP BW/4HANA Transfer Toolbox is planned to support the following conversion scenarios:

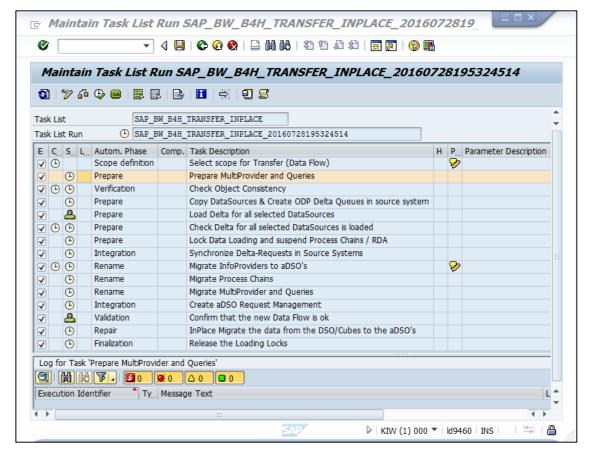
BPC Embedded Model

- In-place Conversion
- Remote Conversion

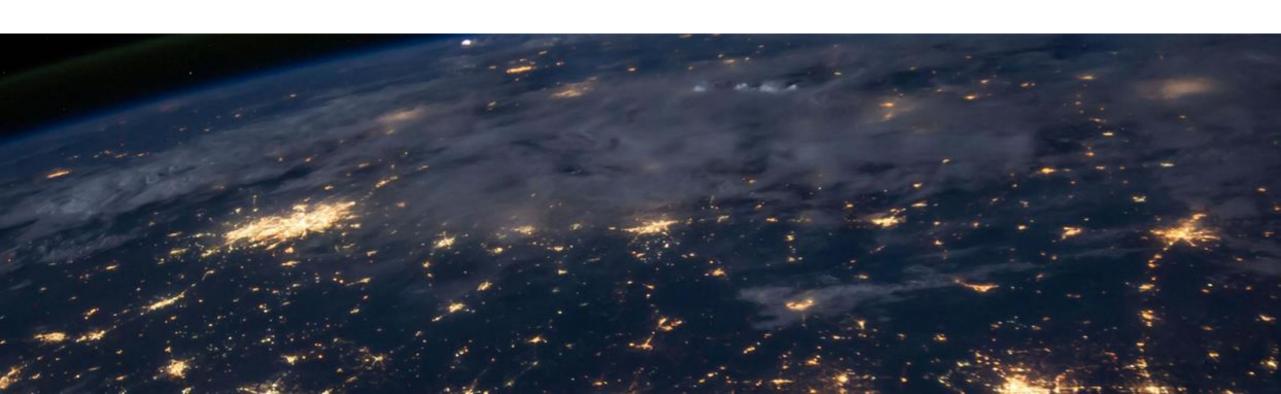
BPC Standard Model

In-place conversion

See roadmap for details



Path 3: Landscape Transformation



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

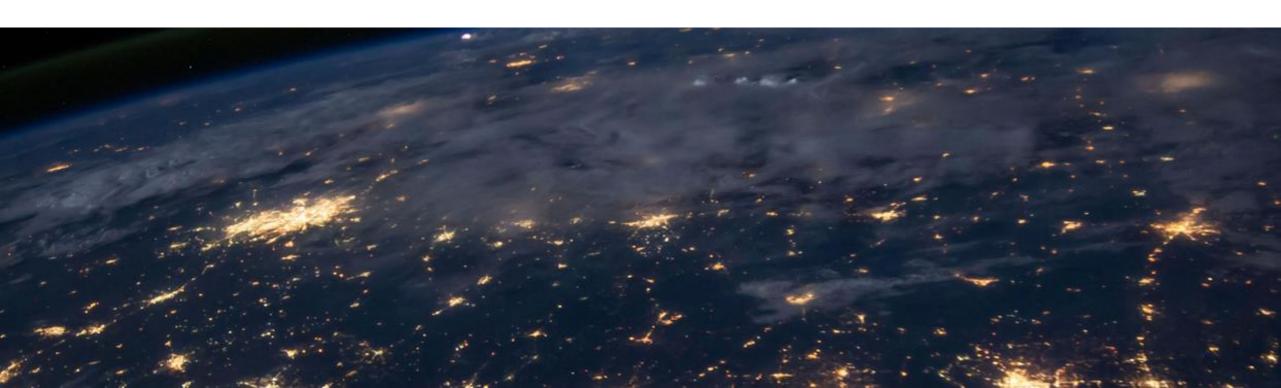
Customer-specific conversion project re-using standard tools

Expert consulting highly recommended

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

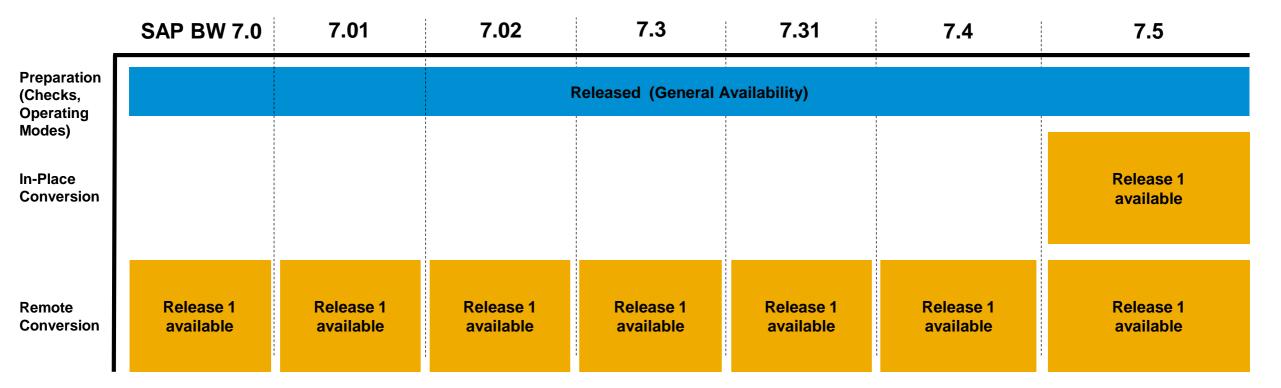
→ Plan is to use a combination of one in-place conversion and one or more remote conversions

Availability and Outlook



Availability Matrix

Last update: 2017-10-01



Preparation: Install via SAP BW Note Analyzer (SAP Note <u>2383530</u>)

In-place Conversion: Install via SAP BW Note Analyzer (SAP Note <u>2383530</u>) and pilot note (SAP Note <u>2500045</u>)

Remote Conversion: Install via SAP BW Note Analyzer (SAP Note 2383530) and DMIS Add-on (SAP Note 2513088)

Roadmap for SAP BW/4HANA Transfer Toolbox

In-Place Conversion



Customers can convert an existing system running on SAP HANA

Version 1.0 – June 2017

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

Legacy functionality gets transferred into HANA-optimized counterparts

Shared Features

Customer exits are scanned for incompatible usages

Remote Conversion



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

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

Version 1.5 - Q4/2017

Performance enhancements

More tool-based guidance

Transfer of authorization objects

Complete set of supported scenarios (Semantically Partitioned Objects, Real-time Data Acquisition, etc.)

Transfer of SAP BPC to SAP BPC, version for SAP BW/4HANA

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

Enhanced Status Management

Enhanced monitoring capabilities

Simplified Guided Process steps

Version 2.0 – Q1/2018

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

Data model optimizations (e.g. skip obsolete layers)

Improved data verification capabilities

Comfort functions like code replacement in customer exits

Transfer of BEx-related objects

Transfer Near-line-Storage partner solutions via partner

SAP BW/4HANA Conversion Cockpit released for partners

Troubleshooting functions

Roadmap for SAP BW/4HANA Transfer Toolbox for BPC

Version 1.0 – June 2017

Version 1.5 – Q4/2017

Version 2.0 - Q1/2018

In-Place Conversion



Remote Conversion



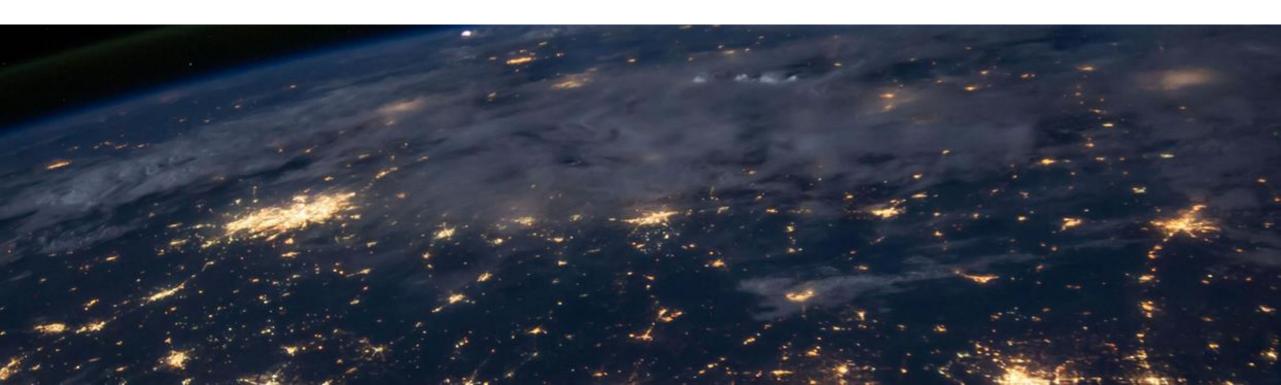
□ BPC 10.1 Standard Model via Backup and Restore (UJBR) BW 7.4 & BW 7.5 ⇒ BPC 11.0 SP 1

□ BPC 10.0 Standard Model: BW 7.5 SP 9 + SAP Notes ⇒ BPC 11.0 SP 2 □ BPC 10.1 Standard Model: BW 7.5 SP 9 + SAP Notes ⇒BPC 11.0 SP 1 □ BPC 10.1 Embedded Model: BW 7.5 SP 9 + SAP Notes ⇒BPC 11.0 SP 2

□ BPC 10.0 Standard Model via Backup and Restore (UJBR) BW 7.3 & BW 7.4 ⇒BPC 11.0 SP 3

□ BPC 10.1 Embedded Model

Summary



Summary

- SAP BW/4HANA is the Innovation Code Line
- The Simplification List is a consolidated description of the delta between SAP BW and SAP BW/4HANA
- Different paths are available to customers for transitioning from SAP BW to SAP BW/4HANA:
 New Install, In-place & Remote Conversion, and Landscape Transformation
- 4. All SAP BW customers can start now and convert at their own pace
- Check your system using the SAP BW Migration Cockpit (SAP BW Checklist Tool) and Pre-check Program
- 6. Follow the steps of the task lists to convert all required scenarios
- 7. Go-live with a modern and simplified data warehouse, SAP BW/4HANA

Thank You!

Marc F. Bernard

Chief Architect, Product Management SAP Data Warehousing

SAP Canada, Inc.

marc.bernard@sap.com

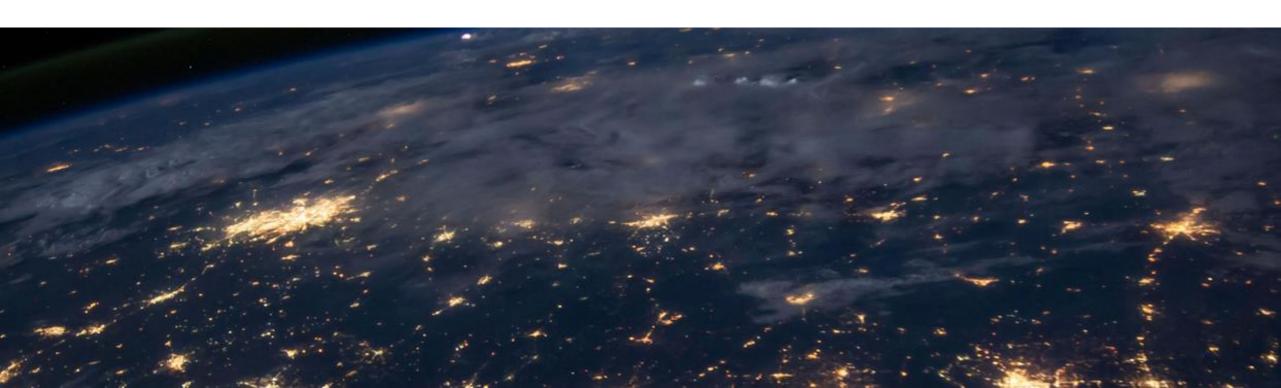
Follow me on Twitter: <a>@marcfbe

Landing Page: http://sap.com/bw4hana

Community Page: http://sap.com/bw4hana10



Appendix – The Right Path



SAP BW/4HANA

Which Path is Right for You?

| Starting Point | Path 1 New Install | | th 2 onversion | Path 3* Landscape | | |
|---|---------------------------|--------------|--------------------------|--------------------------|--|--|
| | | In-place | Remote | Transformation | | |
| One or more legacy systems | √ √ | × | × | ✓ | | |
| SAP BW on any database | ✓ | ✓ | // | ✓ | | |
| SAP BW powered by SAP HANA | ✓ | V V | √ | ✓ | | |
| SAP BW 7.5 powered by SAP HANA w/ SAP BW/4HANA Starter Add-on | ✓ | V V V | ✓ | ✓ | | |
| Multiple SAP BW systems | ✓ | × | √ √ | √√ √ | | |

Legend:

✓✓ Highly recommended path

✓ V Recommended path

✓ Possible alternative path

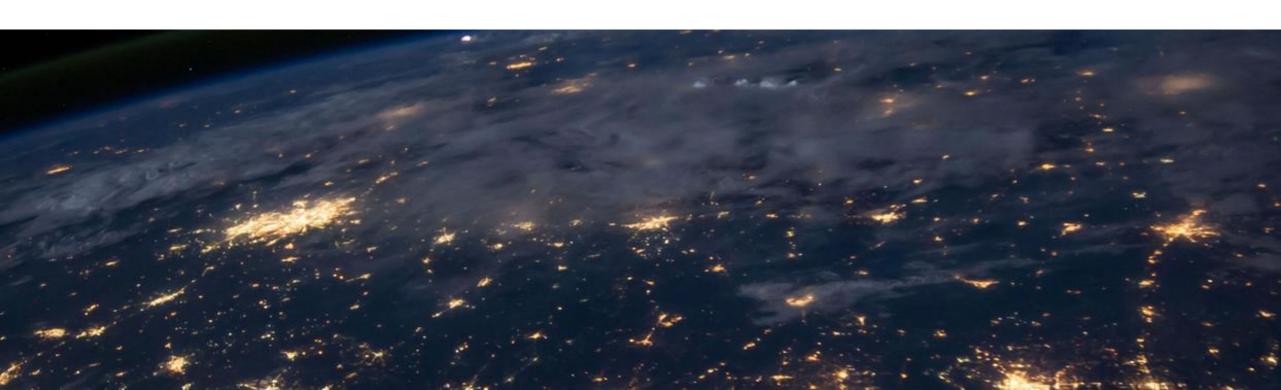
* Not supported * Planned

SAP BW/4HANA

Decision Criteria for the Right Path

| Criteria * | Path 1 New Install | Path 2 System Conversion | | |
|--|-----------------------------------|---------------------------|--------|--|
| | (plus remodel and reload of data) | In-place | Remote | |
| Is system running on SAP HANA already? | 0 | ++ | 0 | |
| Is system running on SAP BW 7.5 already? | 0 | ++ | 0 | |
| Are the data models LSA++ compliant? | - | ++ | + | |
| Are there a lot of redundant data layers? | + | - | ++ | |
| Are proper naming conventions used? | ++ | - | - | |
| Are you using front-ends that are compatible with SAP BW/4HANA? | + | 0 | 0 | |
| Is there a lot of redundant custom coding? | + | - | ++ | |
| Are there a lot of redundant objects that would require manual redesign? | 0 | - | 0 | |
| Are there a lot of redundant objects that would required deletion? | + | - | + | |
| Are there a lot of required objects that are compatible with SAP BW/4HANA? | - | ++ | + | |
| Are there a lot of required objects that can be converted automatically? | - | ++ | + | |

Appendix – Landscape Preparation







Pre-check, Transfer Toolbox, required ODP and SAP BW/4HANA updates are shipped as SAP Notes

General Recommendation

To reduce manual effort and the number of SAP Notes to be implemented, deploy the latest available support package stack

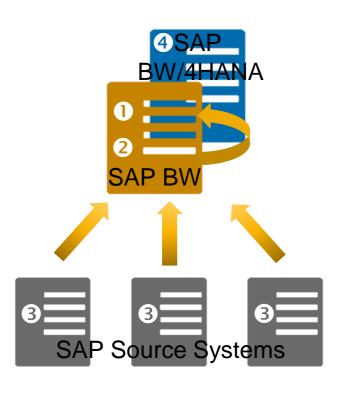
Guided Installation using SAP BW Note Analyzer
SAP BW Note Analyzer provides
a clear and consistent process

to update a particular component of SAP BW or SAP BW/4HANA without implementing support packages

SAP BW Note Analyzer and content (XML files) are available via SAP Note 2383530

In-place Conversion





Discovery Phase

Install Pre-check in original SAP BW system *

Realization Phase

- Install Transfer Toolbox in original SAP BW system *
- Install ODP updates in each SAP source system
- Install SAP BW/4HANA updates (after system conversion)

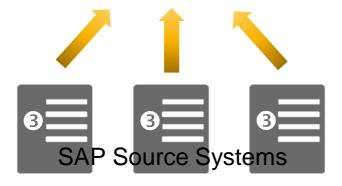
Complete installation process is supported by the SAP BW Note Analyzer

^{*} For SAP BW 7.5, installation of pre-check and transfer toolbox are combined and require the SAP BW/4HANA Starter Add-on (available via Maintenance Planner)

Remote Conversion







Discovery Phase

Install Pre-check in original SAP BW system

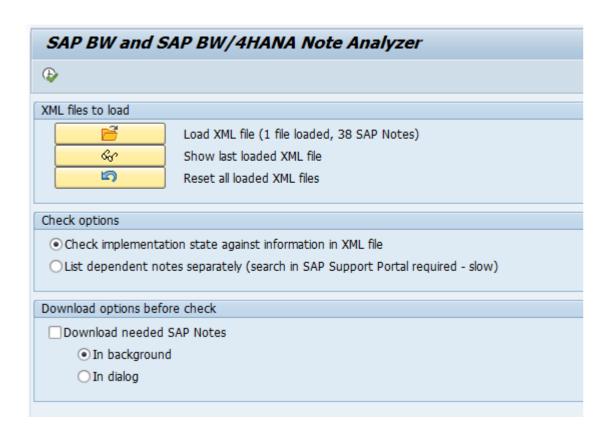
Realization Phase

- Install Transfer Toolbox and DMIS add-on in original SAP BW system
- Install ODP updates in each SAP source system
- Install Transfer Toolbox and DMIS add-on in target SAP BW/4HANA system

Complete installation process is supported by the SAP BW Note Analyzer

SAP BW Note Analyzer





Installation Process

- Implement SAP BW Note Analyzer in all development systems of your landscape
- Run SAP BW Note Analyzer in each development system with the content (XML file) corresponding to the installation scenario (to on to previous pages)
- To complete an installation scenario, all traffic lights must be green. In case of yellow or red lights, follow the given instructions

For details, see SAP Note 2383530

SAP BW Note Analyzer





Example Result of SAP BW Note Analyzer Run

- Quick run with default options
- Download of required SAP Notes in batch
- Implementation of required SAP
 Notes and trigger of manual activities
 (pre or post program executions)
 directly from results

| | | CC | Scope Criecking priase | | W | | (6.0.0.6.0.6.0.6.0.6.0.6.0.6.0.6.0.6.0.6 | | | |
|-------------------|-------------------|------------|--|-------------------|-------------|----------------|--|-----------------|-----|--|
| BW4_ADDON | BW4_ADDON | OO= | Scope ID BW4_ADDON Requirements for Pre-Checks for Conversion to SAP BW/4HANA loaded | | | | alina athu fua sa na audta | | | |
| SAP_BW4HANA_ADDOI | N SAP_BW4HANA_ADI | DON ထ 🗜 | Scope ID SAP_BW4HANA_ADDON Requirements for Pre-Checks for Conversion to SAP BW/4HANA load | led | | | directly from results | | | |
| | | CO | System profile parameter checking phase | | ? | | and daily in diff. | | | |
| | | CO | Software component checking phase | | ? | | | | | |
| SAP_BW4HANA_ADDON | N SAP_BW | CO | Software component fulfills prerequisites | 2447513 | CO | SAP Note not r | relevant for this system: 2447513 (15) "BW4HANA: Starter Add-On - further corrections (4)" | | | |
| | | 00 | SAP Note checking phase | 2468411 | 00 | | relevant for this system: 2468411 (12) "BW4HANA: Starter Add-On - further corrections (5)" | | | |
| | | 000 | Patch up to the following support packages or implement the SAP Notes with status RED | 2495422 | 00 | | relevant for this system: 2495422 (4) "BW4HANA: Starter Add-On - further corrections (6)" | | | |
| | | 000 | Component SAP_BW; release 730; support package level 18 | 2255250 | 00 | | relevant for this system: 2255359 (4) "Preparation for corrections" | | | |
| _ | 2228413 | OO= | SAP Note not relevant for this system: 2228413 (16) "Technical prerequisites for SAP BW Edition for SA | AP HANA" 2453476 | X | | 3476 does not exist in system and needs to be downloaded | | | |
| | 2285440 | OO= | SAP Note not relevant for this system: 2285440 (3) "Technical prerequisites in BW for "SAP BW Edition | n for SAP I | ₩ 00 | | e implemented: 2453476 (4) "SP37: Technical correction in PSA service" | SAP_BW | 700 | |
| | 2330548 | 00 | SAP Note implemented or obsolete: 2330548 (6) "SAP BW 7.5, edition for SAP HANA: Prepare Check | (DataSta: 2456689 | ₩ 00 | | 5689 does not exist in system and needs to be downloaded | 6 C/ II _ C/ II | , | |
| | 2361350 | 00 | SAP Note not relevant for this system: 2361350 (3) "B4H mode: transport check for RS_B4HANA_CHEC | | ₩ 00 | | e implemented: 2456689 (1) "System dump CONVT_NO_NUMBER when loading a query" | SAP_BW | 700 | |
| | 2375192 | 00 | SAP Note not relevant for this system: 2375192 (3) "B4H Mode: Add-on Name Changed" | 2448571 | X CC | | 3571 does not exist in system and needs to be downloaded | 6 c/ ii _c/ ii | , | |
| | 2383743 | OO= | SAP Note not relevant for this system: 2383743 (1) "IOBJ_PROP: MOVE_CAST exception in cl_rsd_iobj_ | | ₩ 00 | | e implemented: 2448571 (75) "BW4HANA: Starter Add-on(checks)" | SAP_BW | 700 | |
| | 2384081 | 00 | SAP Note not relevant for this system: 2384081 (2) "Error message "Object type IOBJ cannot be expor | rted in BV | 00 | | ns need to be executed as manual activity after implementing the note | U = | | |
| | 2384110 | 00 | SAP Note not relevant for this system: 2384110 (7) "BW4HANA: RS_B4HANA_CHECK_ENABLE - the las | st checks | 000 | | am RS_NOTE_2448571 after implementing SAP Note 2448571 | | | |
| | 2425158 | 00 | SAP Note not relevant for this system: 2425158 (3) "BW4HANA: New Starter Add-On report with auto | omatically | 000 | | am RS_NOTE_2448571_2 after implementing SAP Note 2448571 | | | |
| | 2391316 | 00 | SAP Note not relevant for this system: 2391316 (16) "BW4HANA: New Starter Add-On Report with Au | utomatical | 000 | | am RS_NOTE_2448571_3 after implementing SAP Note 2448571 | | | |
| | 2400086 | 00 | SAP Note not relevant for this system: 2400086 (4) "Myself-System not allowed in strict mode" | | 040 | | am RS_NOTE_2448571_4 after implementing SAP Note 2448571 | | | |
| | 2402583 | 00 | SAP Note not relevant for this system: 2402583 (14) "Delete 3.x Web Templates" | 2503455 | ₩ 00 | | 3455 does not exist in system and needs to be downloaded | | | |
| | 2404122 | 00 | SAP Note not relevant for this system: 2404122 (6) "Check for BW Upgrade to BW4HANA" | | ₩ 00 | | e implemented: 2503455 (9) "BW4HANA: Starter Add-On - Änderungen (Transfer Toolbox Versi" | SAP_BW | 700 | |
| | 2422160 | 00 | SAP Note not relevant for this system: 2422160 (2) "REMOVE PROCESS CLOSE GAP generates endles | ss loop" | COL | | ds to be executed as manual activity after implementing the note | | | |
| | | | | | 040 | = | am ZNOTE_2503455 after implementing SAP Note 2503455 | | | |

SAP BW Note Analyzer



Install Pre-check Tool in Discovery Phase

- For SAP BW from 7.0 to 7.4, use SAP_BW4HANA_Pre_Checks_[last_update].xml
- **1** + **2** For SAP BW 7.5, the pre-checks cannot be installed isolated but are bundled with the Transfer Toolbox. Use SAP_BW4HANA_In-place_Conversion_[last_update].xml

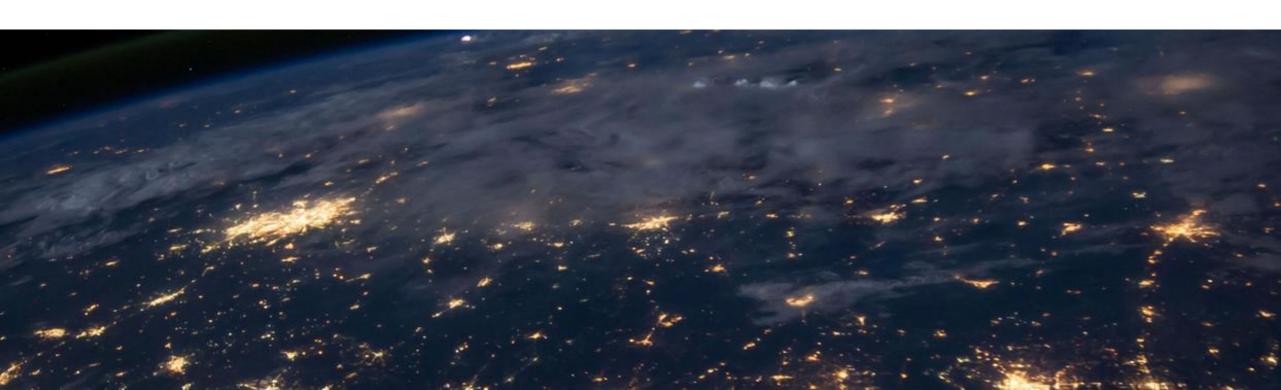
Install Transfer Toolbox and Perform an In-place Conversion in Realization Phase

- Programme For SAP BW 7.5 and in-place conversion, use SAP_BW4HANA_In-place_Conversion_[last_update].xml
- For source systems connected to SAP BW, use Source_System_for_SAP_BW4HANA_[last_update].xml

Install Transfer Toolbox and Perform an Remote Conversion in Realization Phase

- Procession For SAP BW from 7.0 to 7.5 acting as sending system for a remote conversion, use SAP_BW4HANA_Remote_Conversion_(Original_System)_[last_update].xml
- 6 For source systems connected to SAP BW, use Source_System_for_SAP_BW4HANA_[last_update].xml
- Tor SAP BW/4HANA acting as receiving system for a remote conversion, use SAP_BW4HANA_Remote_Conversion_(Target_System)_[last_update].xml

Appendix – Certification and Training



Certification for SAP BW/4HANA

This certification exam verifies that the candidate has the knowledge of implementing and modeling SAP BW/4HANA required by the profile of an SAP BW application consultant.

Topics that may be covered within this certification

- Optimization Areas in SAP BW/4HANA
- Modeling with SAP's Reference Architecture LSA++
- Hybrid Modeling in Mixed Scenarios
- SAP BW/4HANA Data Management
- Data Provisioning into SAP HANA as well as SAP BW/4HANA
- Getting started with SAP BW/4HANA and SAP HANA
- Migration to SAP BW/4HANA
- SAP HANA Modeling

For details, go to → <u>SAP Training</u> ←



Courses for Preparation:

BW462 (BW/4HANA 1.0 SP02) BW362 (SAP HANA SPS12) DBW4H (BW/4HANA 1.0 SP02) HA100 (SAP HANA SPS12)

Training for SAP BW/4HANA



- 5 days (available in several countries)
- Prerequisites:
 - Hands-on experience in data modeling with SAP BW 7.x
 - BW310 (SAP BW Enterprise Data Warehousing non-HANA)

For details, go to \rightarrow <u>SAP Training</u> \leftarrow



- 2 days (available in several countries)
- Prerequisites:
 - SAP BW 7.4 / 7.5 and SAP HANA 1.0 knowledge is necessary
 - DBW74, BW362, HA100 or HA100e, BW310H

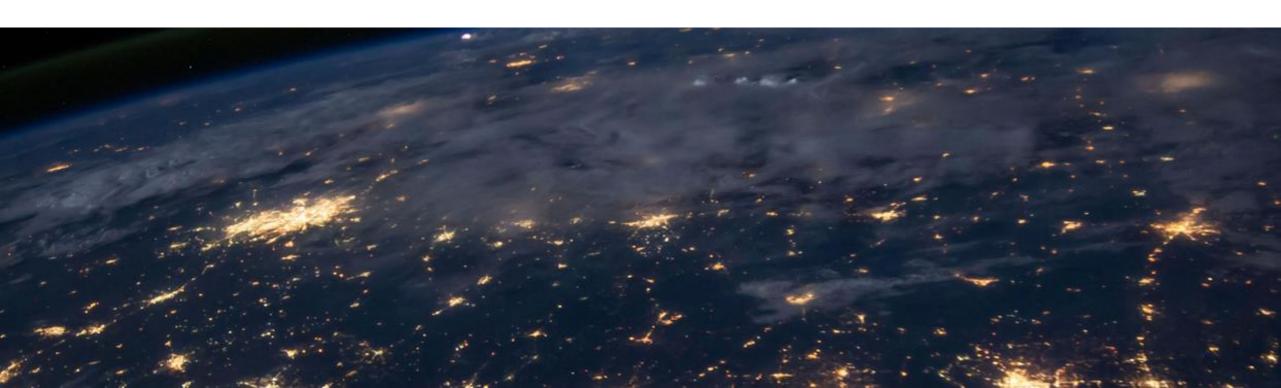
For details, go to \rightarrow <u>SAP Training</u> \leftarrow



- 4 Units 2-3 hours in total
- No prerequisites
- Free participation & certification

For details, go to \rightarrow openSAP \leftarrow

Appendix – Services



Digital Business Services for SAP BW/4HANA

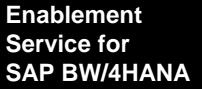


Workshop for

SAP BW/4HANA





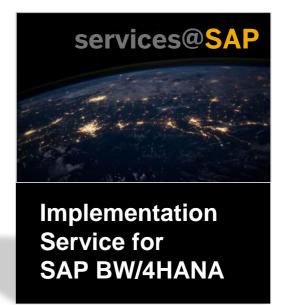






SAP Best Practices for In-place Conversion to SAP BW/4HANA





SAP Best Practices for In-place System Conversion to SAP BW/4HANA

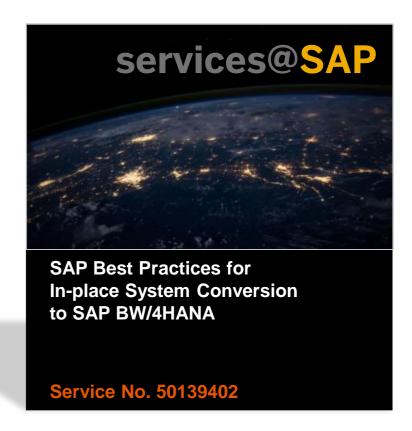
This package provides you with a proven project approach and configuration guides for the conversion of an existing SAP NetWeaver BW to SAP BW/4HANA. The tool-based conversion to SAP BW/4HANA includes step-by-step documentation with project schedule, streamlined project methodology, and optimized project tools. Use best practices to plan and convert your system, gaining all of the benefits of real-time data.

Business Benefits

- Dramatically improve performance for data loading, querying, analysis, staging, and planning processes
- Simplify data modeling using a modern user interface, ADSO, and CompositeProvider
- Accelerate solution development with simplified object models and SQL support
- Use multi-temperature storage options to optimize data management, improve data query response time, and lower TCO

Key Competitive Differentiators

- In-place conversion without reimplementation
- Flexible and unconstrained SAP BW/4HANA conversion
- Simplified conversion process due to streamlining of steps
- Tool-based conversion with SAP proven technology
- → Overview ← for details, go to → SAP Best Practices ←



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



Enablement Service for SAP BW/4HANA

The enablement service for SAP BW/4HANA helps customers familiarize with the innovations introduced with SAP BW/4HANA and to identify how to leverage the new functionalities to kick-start with SAP BW/4HANA and the future-proof enterprise data warehousing platform by SAP.

Business Needs

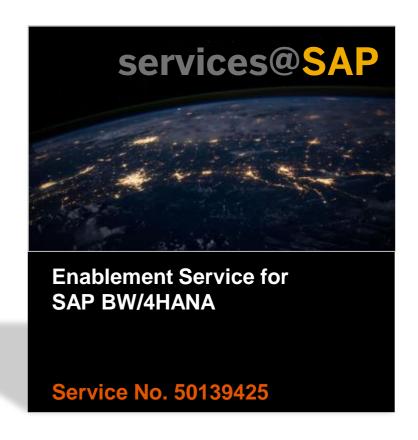
- Ensure key stakeholders are provided with knowledge on key functionalities and innovations of SAP BW/4HANA
- Close knowledge gaps with the help and advise of SAP experts

Delivery Approach and Scope

- Identification of relevant topics upfront service delivery
- Scenario-based, guided on-site workshop
- On-hands experience provided during the workshop

Value and Benefits

- Ability to unleash the full potential of SAP BW/4HANA
- Better understanding of new functionalities and innovations and faster productive usage of SAP BW/4HANA due to elimination of uncertainties



Implementation Service for SAP BW/4HANA

The implementation service for SAP BW/4HANA assists customers in quickly establishing a SAP BW/4HANA environment that delivers enterprise wide analytics. SAP BW/4HANA is natively built on the SAP HANA platform with a simplified set of data warehouse objects and SAP HANA optimized business content. This service enables companies to experience the speed and powerful analytics of SAP BW/4HANA and set the foundation for Driving Innovation, with a fixed scope and a fixed price.

Business Needs

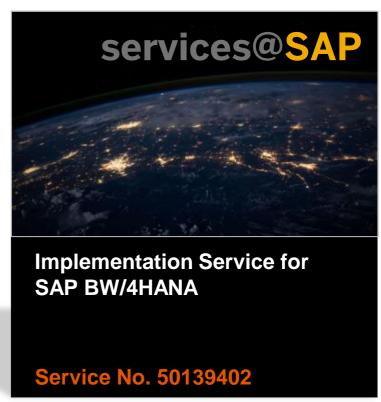
- Business Agility Ability to respond quickly to changing business climate
- Access to accurate information in a timely manner (incl. real-time analytics)
- Enable an Open Data warehouse development environment
- Enable a Simplified Data warehouse development environment
- Establish a solid, extensible foundation for data management and data governance

Delivery Approach and Scope

- Establish a SAP BW/4HANA development environment (e.g. project accelerator, PoC)
- Identify and activate one area of Business content
- Identify relevant optional scope items (e.g. activate additional Business Content)

Value and Benefits

- Accelerator for Establishing a SAP BW/4HANA development system
- Simplified development environment with a simplified set of data warehouse objects and simplified governance to enable agile data warehouse development and flexible modeling
- Establish the Foundation for different development approaches (BW Objects modelling)



Related Service: Rapid Database Migration of SAP BW to SAP HANA

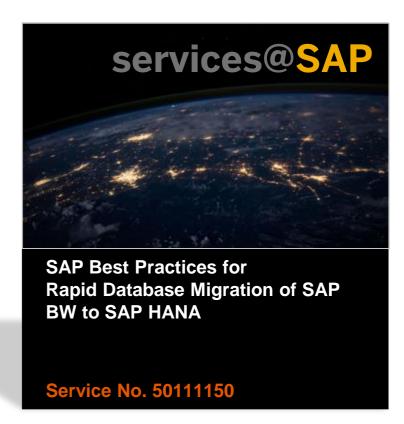
This package provides you with a proven project approach and configuration guides for the conversion of an existing SAP NetWeaver BW to SAP BW/4HANA. The tool-based conversion to SAP BW/4HANA includes step-by-step documentation with project schedule, streamlined project methodology, and optimized project tools. Use best practices to plan and convert your system, gaining all of the benefits of real-time data.

Business Benefits

- Dramatically improve performance for data loading, querying, analysis, staging, and planning processes
- Simplify data modeling using a modern user interface, ADSO, and CompositeProvider
- Accelerate solution development with simplified object models and SQL support
- Use multi-temperature storage options to optimize data management, improve data query response time, and lower TCO

Key Competitive Differentiators

- In-place conversion without reimplementation
- Flexible and unconstrained SAP BW/4HANA conversion
- Simplified conversion process due to streamlining of steps
- Tool-based conversion with SAP proven technology
- → Overview ← for details, go to → SAP Best Practices ←

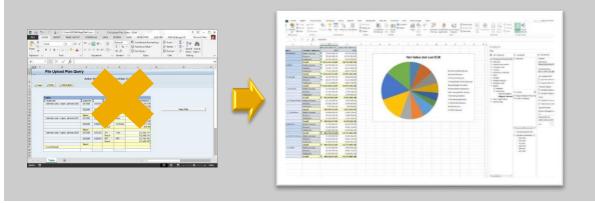


Simplified Transition for SAP Business Explorer (BEx)

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

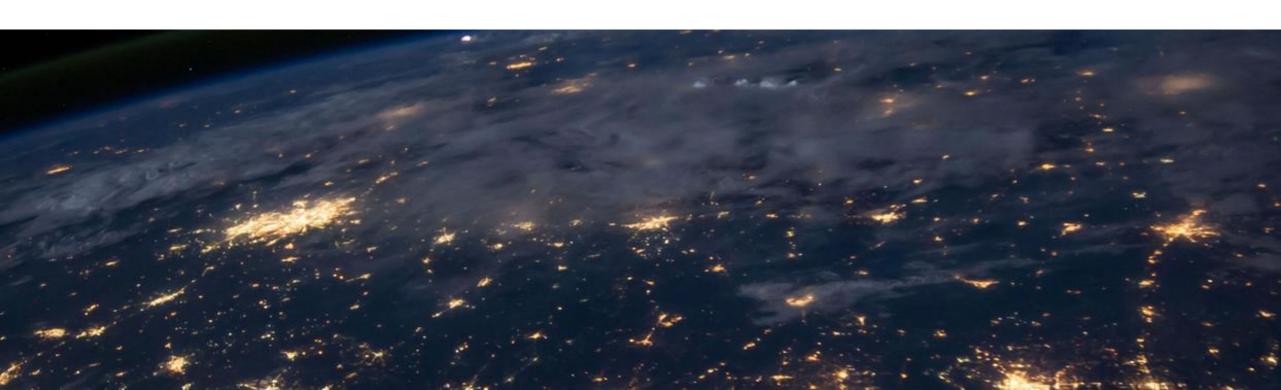


SAP BEx Web Applications

- Planed 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 <u>2496706</u>
 (not released yet)



Appendix – Additional Information



Blogs about Transitioning to SAP BW/4HANA

The Road to SAP BW/4HANA – Parts 1 to 3

https://blogs.saphana.com/2016/09/07/the-road-to-sap-bw4hana-part-1/

https://blogs.saphana.com/2016/09/18/the-road-to-sap-bw4hana-part-2/

https://blogs.saphana.com/2017/06/06/the-road-to-sap-bw4hana-part-3/

On the Road to SAP BW/4HANA – Parts 1 & 2

https://blogs.sap.com/2016/12/15/on-the-road-to-bw4hana-first-stage-accomplished/

https://blogs.sap.com/2016/12/15/on-the-road-to-bw4hana-second-stage-ahad/

SAP First Guidance – **SAP BW/4HANA** complete functional scope (CFS)

More Information about SAP BW4/HANA

SAP BW/4HANA Landing Page

http://sap.com/bw4hana

SAP BW/4HANA Community / Product Page

http://sap.com/bw4hana10

SAP BW/4HANA Documentation

http://help.sap.com/bw4hana10

SAP BW/4HANA FAQ / SAP BW/4HANA Roadmap

Analytics Solutions from SAP (for SAP BW/4HANA Customers) Roadmap

SAP BW/4HANA Blogs / Community Blogs

SAP BW/4HANA Events

SAP BW/4HANA on Twitter

SAP BW/4HANA and SAP HANA Data Warehousing YouTube Channel

SAP Training and Certification for SAP BW/4HANA

SAP Best Practices for In-place System Conversion to SAP BW/4HANA