Legal disclaimer

This presentation is not subject to your license agreement or any other agreement with SAP. SAP has no obligation to pursue any course of business outlined in this presentation or to develop or release any functionality mentioned in this presentation. This presentation and SAP's strategy and possible future developments are subject to change and may be changed by SAP at any time for any reason without notice. This document 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. SAP assumes no responsibility for errors or omissions in this document, except if such damages were caused by SAP intentionally or grossly negligent.
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 Analytics Cloud & Enterprise Clients & Tools
- BW Query (BW Modeling Tools Query Designer)
- New Object Model: DataStore Object (adv.) & CompositeProvider
- 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
Transition Scenarios to SAP BW/4HANA

**New Implementation or Fresh Start**
- BW System
- Non-SAP System

**System Conversion**
- BW System - on any DB - migrate
- BW System - on any DB - remote
- BW System - on SAP HANA - in-place

**Landscape Transformation** *
- BW System - Region A -
- BW System - Region B -
- BW System - Region C -

SAP BW/4HANA On-Premise or Cloud

* Planned
SAP BW/4HANA Transfer Toolbox

In-Place Conversion

Full-System Conversion of an existing installation

Step-by-step in-place transfer of unsupported objects into their HANA-optimized counterparts

Followed by a component upgrade to BW/4HANA

Start release: SAP BW 7.50 SP 5 powered by SAP HANA

Remote Conversion

BW/4HANA as green field installation

Support of Carve-Out and Consolidation Scenarios

Risk mitigation due to a parallel system

Start release: SAP BW >= 7.3 on any-DB

This presentation is not subject to your license agreement or any other agreement with SAP. SAP has no obligation to pursue any course of business outlined in this presentation or to develop or release any functionality mentioned in this presentation. This presentation and SAP’s strategy and possible future developments are subject to change and may be changed by SAP at any time for any reason without notice. This document 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. SAP assumes no responsibility for errors or omissions in this document, except if such damages were caused by SAP intentionally or grossly negligently.
Shell conversion as optimized greenfield approach

1. Scope Selection

2. Transport selected objects

3. Convert classic objects in After-Import and adjust DTP/TRFN

4. Re-Modelling (skip layers, etc.)
Add-On “BW/4HANA Starter” (f.k.a. “SAP BW, Edition for SAP HANA”) is prerequisite for In-Place Conversions

- All restrictions temporary disabled
- Unsupported object types cannot be created
- Existing scenarios can continue running as before
- Unsupported objects can be transported when adding them to a white list
- No imports of unsupported object types
- White list is not relevant any more
- System is ready for component upgrade
**BW/4HANA Starter Add-On – Process View**

**Compatibility Mode**
- Scenario-wise in-place conversion of scenarios
- Manual work finished
- Exceptional incompatible scenarios will still run (e.g. VirtualProvider for BPC)
- System ready for component upgrade

**B4H Mode**

- Expected Length of Stay: Mont(s) dep. On #Objects
- Week(s)
- Hours(s)

**Ready-for-conversion**

- Prepare: Check System Consistency for B4H Mode
- Prepare: Transfer 3.x Queries to 7.x
- Prepare: Transfer DataStores for personalization
- Prepare: Delete 3.x Web Templates (SAP)
- Prepare: Set B4H Mode

- Prepare: Check System Consistency for RFC Mode
- Prepare: Delete D-versions
- Prepare: Delete Virtual InfoProvider
- Prepare: Set Ready-for-Conversion Mode
Transfer Scenarios

**In-Place Conversion**

1. **Scope Selection**
   - Convert classic objects and write transport request
   - Move data
   - Upgrade to BW/4

2. Transport selected objects

**Remote Conversion**

3. Convert classic objects in After-Import and adjust DTP/TRFN

4. Transfer data

5. Transport converted objects

**Transfer Scope**

6. Convert classic objects

7. Move data

8. Import transport request (replay manual changes)

9. Upgrade to BW/4

10. Transport selected objects

11. Transfer data

12. Convert classic objects in After-Import and adjust DTP/TRFN
Look and Feel

Pre-Checks

Transfer Tool (In-Place)
Overview Customer Projects – Pre-Checks

<table>
<thead>
<tr>
<th>Type</th>
<th>User</th>
<th>No. E</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Please be aware that authorization objects need to be adjusted. 2488537</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Required actions for switch to SW mode</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Supported by Transfer Tool</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Please be aware that authorization objects need to be adjusted. 2488537</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Required actions for switch to SW mode</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Please be aware that authorization objects need to be adjusted. 2488537**
- **Please be aware that authorization objects need to be adjusted. 2488537**
- **Required actions for switch to SW mode**
- **Required actions for switch to SW mode**
- **Supported by Transfer Tool**
- **Supported by Transfer Tool**

**Overview Customer Projects – Pre-Checks**

<table>
<thead>
<tr>
<th>Type</th>
<th>User</th>
<th>No. E</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Please be aware that authorization objects need to be adjusted. 2488537</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Required actions for switch to SW mode</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Supported by Transfer Tool</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Please be aware that authorization objects need to be adjusted. 2488537</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Required actions for switch to SW mode</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Supported by Transfer Tool</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Please be aware that authorization objects need to be adjusted. 2488537</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Required actions for switch to SW mode</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Supported by Transfer Tool</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Please be aware that authorization objects need to be adjusted. 2488537</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Required actions for switch to SW mode</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Supported by Transfer Tool</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Please be aware that authorization objects need to be adjusted. 2488537**
- **Please be aware that authorization objects need to be adjusted. 2488537**
- **Required actions for switch to SW mode**
- **Required actions for switch to SW mode**
- **Supported by Transfer Tool**
- **Supported by Transfer Tool**

**Overview Customer Projects – Pre-Checks**

<table>
<thead>
<tr>
<th>Type</th>
<th>User</th>
<th>No. E</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Please be aware that authorization objects need to be adjusted. 2488537</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Required actions for switch to SW mode</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Supported by Transfer Tool</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Please be aware that authorization objects need to be adjusted. 2488537</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Required actions for switch to SW mode</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Supported by Transfer Tool</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Please be aware that authorization objects need to be adjusted. 2488537</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Required actions for switch to SW mode</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Supported by Transfer Tool</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Please be aware that authorization objects need to be adjusted. 2488537</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Required actions for switch to SW mode</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Supported by Transfer Tool</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Please be aware that authorization objects need to be adjusted. 2488537**
- **Please be aware that authorization objects need to be adjusted. 2488537**
- **Required actions for switch to SW mode**
- **Required actions for switch to SW mode**
- **Supported by Transfer Tool**
- **Supported by Transfer Tool**
System Conversion

Typical Timeframe

Total Project
• 3 to 6 months

Discover / Prepare Phase
• 1-2 weeks

Explore / Realize / Deploy Phase

In-Place Conversion
• Application work: 2-5 months
• Technical Conversion: 1 week
• Post conversion follow-up + Go-live: 1 weekend

Remote Conversion
• System Provisioning: 1-2 weeks
• Application work: 2-5 months
• Post conversion follow-up + Go-live: 1 weekend
Resources

- **BW/4HANA Conversion Overview**  
  https://launchpad.support.sap.com/#/notes/2383530

- **Conversion Guide**  
  https://help.sap.com/doc/c3f4454877614bc7b9e85ae1f9d1d2c7/1.0/en-US/SAP_BW4HANA_10_Conversion_Guide.pdf

- **SAP BW/4HANA Community (includes FAQ)**  
  http://sap.com/bw4hana10

- **Online Documentation**  
  http://help.sap.com/bw4hana10

- **Product Roadmap**  

- **SAP BW/4HANA vs. SAP BW**  
Appendix
1. Convert 1st scenario in DEV, transport and test scenario in TEST, transport and go-live with scenario in PROD.

2. Convert 2nd scenario in DEV, transport and test scenario in TEST, transport and go-live with scenario in PROD.

3. Convert last scenario in DEV, transport and test scenario in TEST, transport and go-live with scenario in PROD.

4. Convert DEV system, convert TEST system, convert and go-live with PROD system.
In-place Conversion
System Landscape – Big Bang Approach

1. Create N+1 landscape using system copies

2. Convert all scenarios in DEV+1, transport and test scenarios in TEST+1, transport and trial run of all scenarios in PROD+1.

3. Convert DEV+1 system, convert TEST+1 system, convert and go-live with PROD +1 system.

One Go-Live
Remote Conversion
System Landscape – Parallel Run Approach

1. Install SAP BW/4HANA landscape
2. Convert all relevant scenarios in DEV, transport and test scenarios in TEST, transport and parallel run scenarios in PROD.
3. Validate systems in parallel run, go-live with PROD, and decommission SAP BW landscape
Conversion of classic to advanced DataStore Objects generates Compatibility Views for the activation queue and active data table of the classic DSO (SAP Note 2539205 required).

→ Less effort to adjust custom coding

**BW/4 Conversion**

**Example with Compatibility Views**

Compatibility Views for DataStore

- View /BIC/AZDSO00
- View /BIC/AZDSO40

View Referencing Inbound Table

View Referencing Active Data Table

Transparent Tables for DataStore (Adv.)

- Table /BIC/AZDSO1
- Table /BIC/AZDSO2
- Table /BIC/AZDSO3
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: https://blogs.sap.com/2017/07/12/automated-mass-migration-conversion-of-bex-workbook-to-ao-2.x/

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 2496706 (not released yet)
SAP Readiness Check for SAP BW/4HANA

Add-On Compatibility

Simplification Items

Simplification Objects

SAP BW/4HANA Sizing

Memory Sizing Results in GB

Number of Nodes

- Memory Requirement
- Disk Space Requirement for Data
- Disk Space Requirement for Logs

© 2017 SAP SE or an SAP affiliate company. All rights reserved.
System Conversion
Scope Optimizations – Minimal Scope

When choosing “Minimal Scope”, the scope collection can be restricted to
• Reporting related objects like MultiProvider, Queries, etc. (In-Place Conversion)
• Staging related objects like ODSO, InfoCubes, DTPs, etc. (Remote-Conversion)
In-place Conversion
Basic Sequence

Discover / Prepare Phase

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

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

SAP BW powered by SAP HANA

Explore / Realize / Deploy Phase

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

In-place Conversion

- Starter Add-on
- Transfer Toolbox
- Custom Code Adjustments

Downtime
SAP BW/4HANA

* Planned
Remote Conversion
Basic Sequence

Discover / Prepare Phase

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

Simplification List for SAP BW/4HANA

Explore / Realize / Deploy Phase

- t5: System Provisioning
- t6: Remote Conversion
- t7: Post Conversion Tasks
- t8: Go-Live

Remote Conversion
Basic Sequence

SAP BW on Any Database

SAP BW/4HANA

* Planned

© 2017 SAP SE or an SAP affiliate company. All rights reserved.