

ALM222

# Migrating to SAP NetWeaver BW on SAP HANA – Automation and Rapid Deployment

Boris Zarske, Product Management – Kim Mathäß, Solution and Knowledge Packaging  
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# Agenda

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## 1 Introduction

- Migration paths to SAP NetWeaver Business Warehouse powered by SAP HANA

## 2 Improved migration with automated task lists

- Task list to create duplicate delta queue in source system
- Task list to perform post-copy activities

## 3 Demo

- Task list handling in *ABAP task manager for lifecycle management automation*

## 4 SAP NetWeaver Business Warehouse ABAP Post-Copy Automation for regular system copies

## 5 Rapid database migration of SAP NetWeaver Business Warehouse to SAP HANA

- Introduction to SAP Rapid Deployment Solutions
- Overview of the solution
- Service delivery and technical details

## 6 Outlook

## 7 Summary + further information



# 1 Introduction





# 1 Introduction

**SAP NetWeaver BW: Powered by HANA**  
Ramp up early customer adopters

**Speed and Accelerated performance**

- Excellent query performance for improved decision making
- Performance boost for Data Load processes for decreased data latency
- Accelerated in-memory planning capabilities for faster planning scenarios

**New Business Insights**

- SAP Service BI – Data modeling with BW Workspaces
- Flexible content E2E with HANA-native data for better insights and decision making

**Streamline Landscape and simplify data management**

- Non-disruptive DB Migration with SAP Standard tools and services
- Data partitioning topics are cut out and admin efforts reduced. No aggregates, releases, refresh, activation
- Simplified data modeling and retooling

**Improve performance. Without disruption.**

Supercharge your SAP BW data warehouse with SAP HANA for greater insight into critical information, superior system performance and a more streamlined IT landscape.

[Overview](#) | [FAQs](#)

**Value Proposition**  
Why migrate your SAP system to SAP HANA?

Accelerate	Innovate	Simplify
<p><b>SAP NetWeaver BW</b></p> <ul style="list-style-type: none"> <li>Boosted Performance</li> <li>Lower TCO replace BW and traditional DB by SAP HANA</li> <li>Simplified modeling</li> </ul>	<p><b>SAP Business Suite</b></p> <ul style="list-style-type: none"> <li>Real-time operational analytics</li> <li>Existing business processes are accelerated</li> <li>New type of business processes planned</li> </ul>	<p><b>Custom Development</b></p> <ul style="list-style-type: none"> <li>Speed up existing customer programs</li> <li>Develop new applications that leverage SAP HANA optimally</li> </ul>
already available	planning information	planning information

**How does "SAP NetWeaver BW powered by SAP HANA" differ from a BW installed on traditional RDBMS?**

Migration

<p><b>SAP NetWeaver BW 7.x on xDB</b></p> <ul style="list-style-type: none"> <li>Database server and BW server</li> <li>Standard Database Objects</li> <li>Standard InfoCubes</li> <li>BW Integrated Planning</li> <li>SAP HANA Data Mart running side-by-side</li> </ul>	<p><b>SAP NetWeaver BW 7.3, SP5 on HANA</b></p> <ul style="list-style-type: none"> <li>One SAP HANA In-Memory platform</li> <li>SAP HANA-optimized Database Objects</li> <li>SAP HANA-optimized InfoCubes</li> <li>In-Memory planning engine</li> <li>Consumption of SAP HANA models</li> <li>BW staging from SAP HANA</li> </ul>
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**Migration without new implementation - No disruption**

- Screenshots and text on the upper part of the slide taken from <http://www.experiencesaphana.com/>
- Lower left screenshot taken from session "TEC204 How to Migrate to SAP HANA (2h lecture)"
- Lower right screenshot taken from session "EIM205 Implementing SAP NetWeaver BW on SAP HANA – Lessons Learned (2h lecture)"

# 1 Introduction

## Goal of this session:

Provide overview how you can perform migration to  
*SAP NetWeaver® Business Warehouse powered by SAP HANA easier, faster, and more reliable*

## For this, SAP is offering:

1. Automation of migration tasks
2. Predefined tools + methodologies provided with SAP Rapid Deployment Solutions

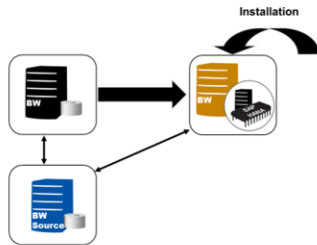


# 1 Introduction

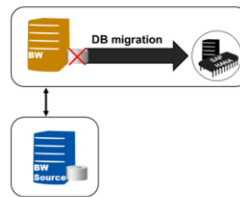
Overview of migration paths of SAP NetWeaver BW to SAP HANA

For migration of **SAP NetWeaver Business Warehouse (SAP NetWeaver BW)** to **SAP NetWeaver BW powered by SAP HANA**, migration path options get outlined on next slides:

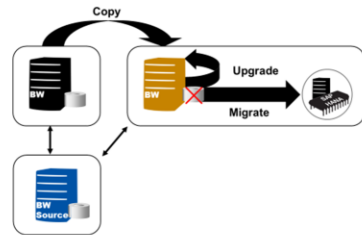
## Option 1: New installation



## Option 2: In-place migration

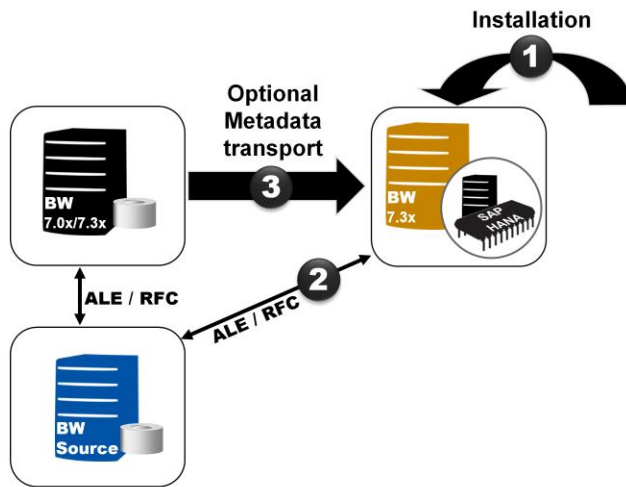


## Option 3: Copy, upgrade + migrate



# 1 Introduction

## Migration path option 1: New installation



### Benefit:

- No risk for production SAP NetWeaver BW system
- Clean system without outdated data models

### Considerations:

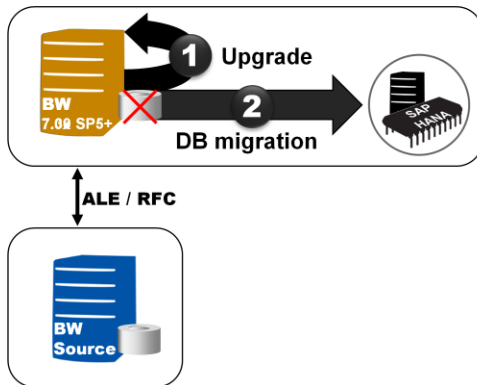
- Not suited for replacement of current production system
- Requires transport of complete metadata, complete re-loading of all business data from production source systems and re-modeling
- No real data comparison possible

SAP NetWeaver BW loads data from connected application systems such as SAP ERP, SAP CRM, SAP SRM – also known as SAP NetWeaver BW source systems

In the figures of this presentation, SAP NetWeaver BW systems are painted black, SAP NetWeaver BW source systems are painted blue, and SAP NetWeaver powered by SAP HANA are painted orange. Grey database boxes represent traditional databases.

# 1 Introduction

## Migration path option 2: In-place database migration (one-system approach)



### Benefit:

- Fast scenario (especially if no upgrade is required)

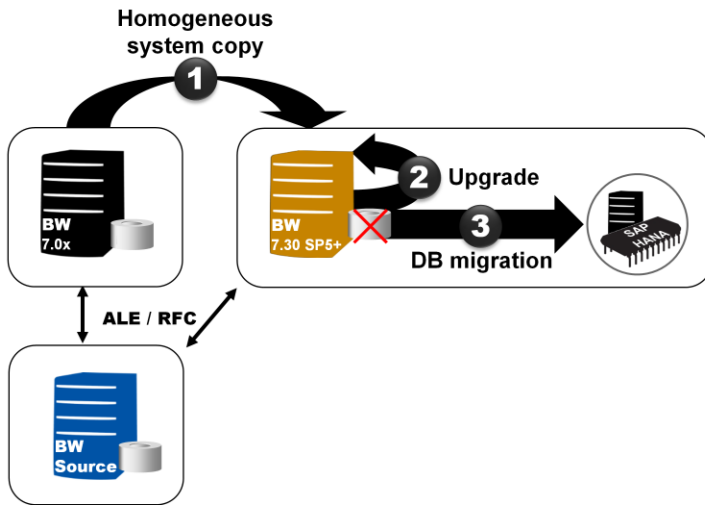
### Considerations:

- No side-by-side operation of production SAP NetWeaver BW and SAP NetWeaver BW powered by SAP HANA
- Downtime of production SAP NetWeaver BW system required for upgrade and database migration

Production system must either be already on SAP NetWeaver BW 7.30 SP05 or higher, SAP NetWeaver BW 7.31 SP05, or it must be upgraded

# 1 Introduction

Migration path option 3: Copy, upgrade and migrate (two-parallel-systems approach)



## Benefit:

- No risk for production SAP NetWeaver BW
- Only short downtime for production SAP NetWeaver BW
- Production SAP NetWeaver BW and SAP NetWeaver BW powered by SAP HANA can run side-by-side (enabling real-time comparison of results and performance)

## Considerations:

- Requires sophisticated migration procedure and correct handling of delta queues in SAP NetWeaver BW source systems



## **2 Improved migration with automated task lists**

Overview





## 2 Improved migration with automated task lists

### Overview

#### SAP is offering two automated task lists to ease migration path

*SAP NetWeaver BW ABAP post-copy automation preparation of initial copy task list (BW ABAP PCA Prepare)*

- Creates duplicated delta queue in SAP NetWeaver BW source system for copied SAP NetWeaver BW system

*SAP NetWeaver BW ABAP post-copy automation initial copy task list (BW ABAP PCA Initial Copy)*

- Performs activities required after **initial** system copy of an SAP NetWeaver BW system reliable and fast

#### SAP NetWeaver BW ABAP post-copy automation preparation of initial copy task list (BW ABAP PCA Prepare)

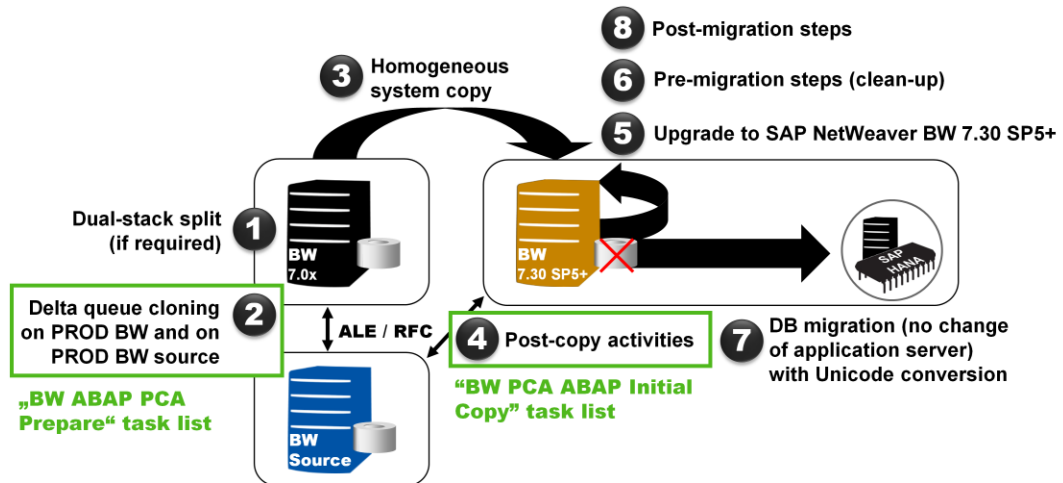
- Creates duplicated delta queue in SAP NetWeaver BW source system for target SAP NetWeaver BW system
- Enables parallel operation of both SAP NetWeaver BW systems with optimized downtime

#### SAP NetWeaver BW ABAP post-copy automation initial copy task list (BW ABAP PCA Initial Copy)

- Performs activities required after the initial system copy of an SAP NetWeaver BW system reliable
- Reduces efforts and accelerates overall migration process

## 2 Improved migration with automated task lists

Detailed look at migration path with two parallel systems



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Step 7: Database migration + Unicode conversion – for more information about how to combine heterogeneous system copy/DB migration with Unicode conversion, see SAP Note 1051576 (Conversion of Single Code Page Systems to Unicode)

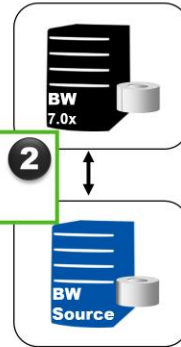


## 2 Improved migration with automated task lists

*BW ABAP Post-Copy Automation Prepare task list*



Delta queue cloning  
on PROD BW and on  
PROD BW source



## 2 Improved migration with automated task lists

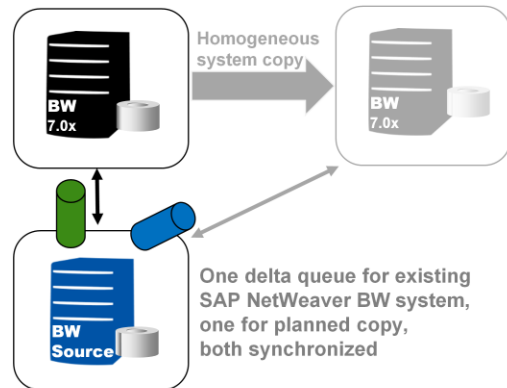
### BW ABAP PCA Prepare task list – scope and features

#### Scope:

- Prepare to easily bring new SAP NetWeaver BW system in **consistent state**
- Enable migration with **optimized downtime**

#### Key features:

- Automatic preparation of **delta queue cloning**
- Automatic cloning of delta queue
- Automatic synchronization of both delta queues



Executed in original SAP NetWeaver BW system

Technical name:

- SAP\_BW\_COPY\_INITIAL\_PREPARE

Scope:

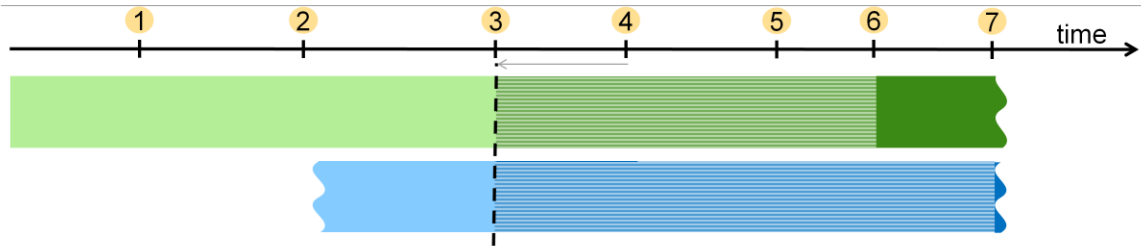
- Prepare to easily bring new SAP NetWeaver BW system (to be created as copy) in consistent state and enable that it can immediately start to receive delta loads
  - Making complete reload of data from source system obsolete
  - Includes handling of transfer structure prefix (TSPREFIX) – an identifier that distinguishes the transfer structures of data sources of different BW source systems, for which the new SAP NetWeaver BW system and the BW source system have to agree on a unique identifier
- Enable migration with **optimized downtime**:
  - No downtime required in SAP NetWeaver BW source systems
  - Downtime in SAP NetWeaver BW system only for system copy

Key features:

- Automatic preparation of delta queue cloning in all involved systems
- Automatic cloning of delta queue
- Automatic synchronization of both delta queues (making re-initialization of delta process obsolete)

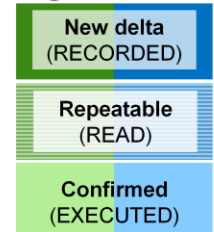
## 2 Improved migration with automated task lists

BW ABAP PCA Prepare – principle of delta queue cloning in BW source system



1. Last delta request from **old** SAP NetWeaver BW system before **CLONE**
2. Creation of delta queue for **new** SAP NetWeaver BW system (**CLONE**)
3. Last delta request (triggered manually) from **old** SAP NetWeaver BW system before **SYNC**
4. Synchronization of delta queues of **old** and **new** SAP NetWeaver BW system (**SYNC**)
5. System copy of **old** SAP NetWeaver BW system (**COPY**)
6. First delta request from **old** SAP NetWeaver BW system after **COPY**
7. First delta request from **new** SAP NetWeaver BW system after **COPY**

Legend:



Repeatable means that the delta queue stores data from the last extraction process.

## 2 Improved migration with automated task lists

BW ABAP PCA Prepare task list – run on production SAP NetWeaver BW system

**Maintain Task List Run SAP\_BW\_COPY\_INITIAL\_PREPARE\_201204251**

Task List: SAP\_BW\_COPY\_INITIAL\_PREPARE Preparation for Initial Copy of BW System

Task List Run: SAP\_BW\_COPY\_INITIAL\_PREPARE\_20120425185413

E	C...	S...	L...	Autom. Phase	Comp.	Task Description	H	P...	Parameter
<input checked="" type="checkbox"/>				Prepare	BW	Select System Connections to be Retained After Copy			
<input checked="" type="checkbox"/>				Prepare	BW	Clone Delta Queues before System Copy			
<input checked="" type="checkbox"/>				Prepare	BW	Confirmation: Requests for All Delta Queues Created?			
<input checked="" type="checkbox"/>				Prepare	BW	Stop RDA Daemons and Process Chains			
<input checked="" type="checkbox"/>				Prepare	BW	Synchronize Delta Queues before System Copy			
<input checked="" type="checkbox"/>						Confirmation: Database Copied or Exported?			
<input checked="" type="checkbox"/>				Postprocessing	BW	Resume Request Processing after Delta Queue Cloning			
<input checked="" type="checkbox"/>				Postprocessing	BW	Restart RDA Daemons and Process Chains			

SAP NetWeaver BW background processing is stopped before system copy and resumed afterwards – SAP NetWeaver BW reporting remains possible

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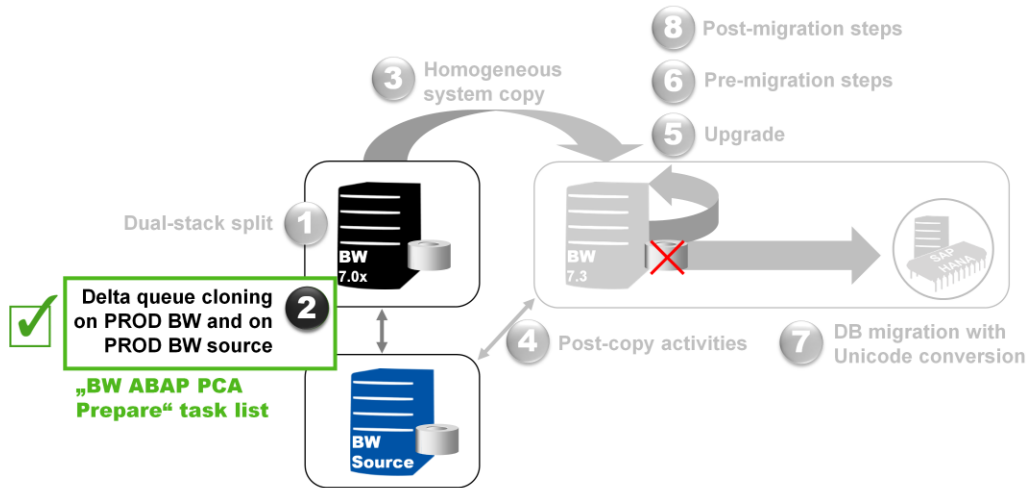
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Each task contains a description of the implemented activities, which is available in the Help column of the task list.

1. **Select System Connections to be retained after Copy:**  
With this task, you specify for each connected SAP NetWeaver BW system and SAP NetWeaver BW source system whether connection is retained and whether system is copied as well. For our migration use case, you choose "Retain connection" (without copy of source system), so that delta queues in source system will be cloned and synchronized with original SAP NetWeaver BW system in following steps.
2. **Clone delta queues before System Copy**  
With this task, you enter new logical system name for target SAP NetWeaver BW system. The task execution disables creation of delta-initialization requests until successful completion of task list and checks if recently started delta-initialization requests have completed successfully. If this is the case, delta queues for this SAP NetWeaver BW system are cloned within chosen SAP NetWeaver BW source systems, using new logical system name.
3. **Confirmation: Requests for all delta queues created? (user interaction)**  
After delta queues are cloned in chosen BW source systems, you have to trigger delta requests in the original SAP NetWeaver BW system for all cloned delta queues and confirm this manually.
4. **Stop RDA Daemons and Process Chains**  
After you have loaded delta for all cloned delta queues, system is prepared for actual copy. This task prevents the creation of new process chain runs and stops the RDA (real-time data acquisition) daemons to assure no data loads or process chains are currently running, in order to have target system in clean state. Then, task list waits until all currently running process chains and daemons are finished.
5. **Synchronize delta queues in BW source systems**  
This task checks whether delta requests have been triggered and completed successfully and creation and repetition of delta requests is disabled until successful completion of task list. If this is true, cloned delta queues for new logical system names are synchronized with those of original SAP NetWeaver BW system.
6. **Confirmation: Database Copied or Exported? (user interaction)**  
This task lets you confirm that actual system copy is complete.
7. **Resume Request Processing after Delta Queue Cloning**  
The creation of delta-initialization, delta and repeat requests is enabled again.
8. **Restart RDA Daemons and Process Chains**  
Finally, execution of process chains is continued and RDA daemons are started again.

## 2 Improved migration with automated task lists

BW ABAP PCA Prepare task list – result

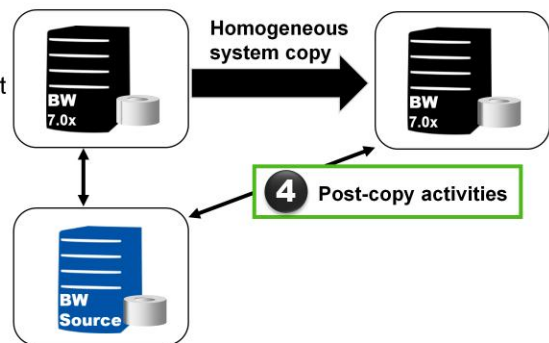






## 2 Improved migration with automated task lists

*BW ABAP Post-Copy Automation Initial Copy task list*



## 2 Improved migration with automated task lists

### BW ABAP PCA Initial Copy task list – scope and features

#### Scope:

- Make post-copy activities easier, faster and more reliable
- More details on upcoming slides

#### Key features:

- Task lists contain implemented logic
- Client-dependent tasks get sent from central client to local client for execution
- Elaborate documentation of tasks + task lists
- Many other features



Executed in target SAP NetWeaver BW system

Technical name:

- SAP\_BW\_BASIS\_COPY\_INITIAL\_CONFIG

Scope:

- Make post-copy activities easier, faster and more reliable by offering (see next slides for more details):
  - Automatic **clean-up** and **post-copy configuration** of ABAP basis components
  - Post-copy configuration of SAP NetWeaver-BW-specific configuration settings

Key features:

- Task lists contain implemented logic:
  - Task lists find out automatically what to configure based on selection scenario
  - Consistency checks + suggestions for parameters of related tasks (such as BDLS mapping)
  - Inter-dependencies between get handled automatically
- Client-dependent tasks get sent from central client (000) via RFC to local client for execution (such as BDLS)
- Many other features, such as static and dynamic checks, (runtime-defined) long-runner tasks, elaborate documentation of tasks and task lists

## 2 Improved migration with automated task lists

BW ABAP PCA Initial Copy task list – detailed SAP NetWeaver BW scope

**BW ABAP PCA Initial Copy task list covers required activities after system copy, such as:**

### Clean-up

- Deletion of obsolete information from original system in target system
- For example, clean-up of obsolete RFC destinations, data archiving processes or Secure Store contents



### Post-copy configuration

- Adaption of ABAP basis and SAP NetWeaver BW configuration settings
- For example, reset of generation flag for DataStore Object activation programs, conversion of logical system names (BDLS), handling of delta queue, and **handling of connections** (see next slide)



### Post-processing

- For example, resume request processing after delta queue cloning and restart of RDA (Real-time Data Acquisition) daemons and process chains



**See appendix for complete list of covered tasks**

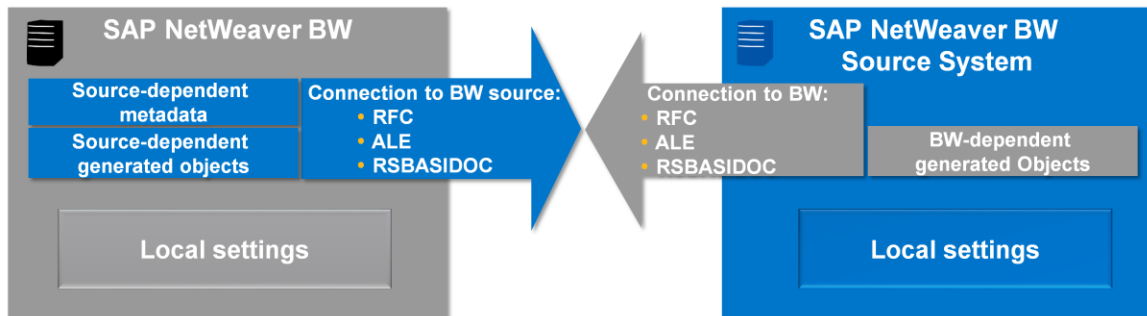
In addition, there is a preparation phase where you can select which system connections should be retained and which systems you are copying as well (landscape copy) – selections from BW ABAP PCA Prepare are still available

For delta queue handling, also transfer structure prefix (TSPREFIX) is handled, an identifier that distinguishes the transfer structures of data sources of different BW source systems, for which the new SAP NetWeaver BW system and the BW source system have to agree on a unique identifier

## 2 Improved migration with automated task lists

BW ABAP PCA Initial Copy task list – detail scope: handling of connections

**Connections are one important aspect of SAP NetWeaver BW system copies**



**Connections and further tasks specific for SAP NetWeaver BW migration handled by *BW ABAP PCA Initial Copy***

Connection to SAP NetWeaver BW source:

- Remote Function Call (RFC): standard SAP interface for communication between SAP systems
- Application Link Enabling (ALE): technology for setting up and operating distributed applications
- RSBASIDOC: this table stores the assignment of SAP NetWeaver BW source system to SAP NetWeaver BW - some of the fields are SLOGSYS (logical system name of source system) and RLOGSYS (receiver system - logical system name of SAP NetWeaver BW system), but also TSPREFIX (two-character identifier to distinguish transfer structures of data sources of different BW source systems) to re-connect the target SAP NetWeaver BW system with the cloned delta queue

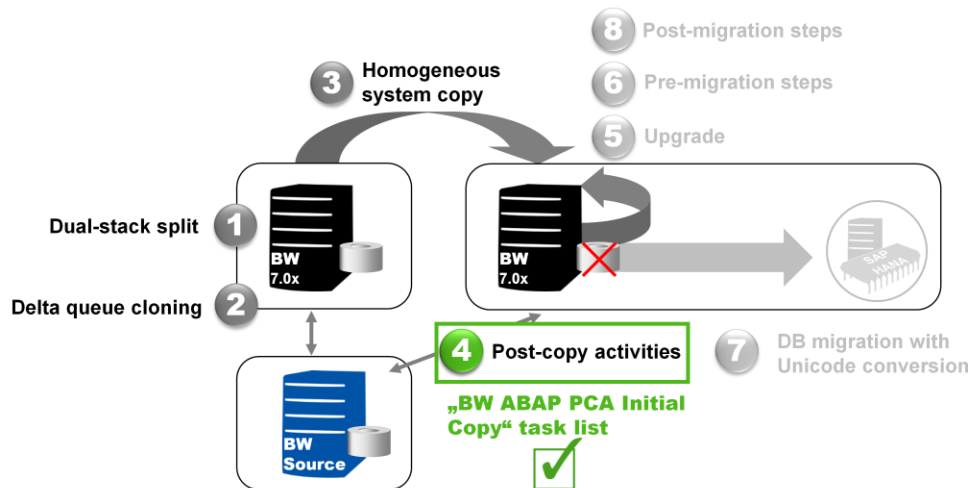
For copies in SAP NetWeaver BW landscapes, several aspects have to be considered:

- **Connections**
  - SAP NetWeaver BW connection is known at both partners → copies + name changes of one partner also affect partner that was not copied, has to be adapted after copy
  - Most issues with system copy in SAP NetWeaver BW environments stem from connections, not from complicated customizing
- **Metadata**
  - SAP NetWeaver BW has a lot of metadata (such as data models)
  - Dependent on (and named like) source system connection → metadata has to be recovered after copy
- **Generation**
  - SAP NetWeaver BW metadata objects generate DDIC structures and programs → naming of these generated objects is dependent on connection and must therefore be recovered after copy
- **Landscape**
  - One SAP NetWeaver BW system might be connected to several source systems, one source system might be connected to several SAP NetWeaver BW systems → when copying more than one system, whole landscape has to be considered

BW ABAP PCA Initial Copy: Restore of connections, which will be retained as you specified in task Select System Connections to be Retained after Copy. New destinations to remote systems are checked. Next, any naming conflicts for connection prefix are resolved, and connection is re-established on source system

## 2 Improved migration with automated task lists

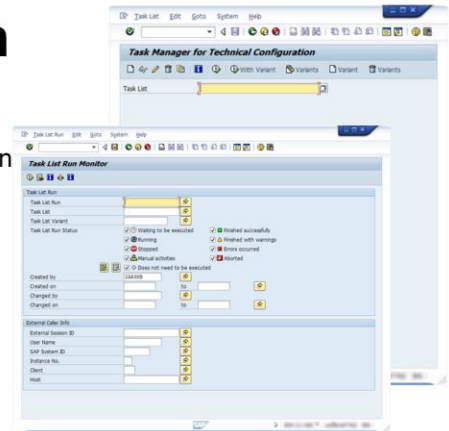
### BW ABAP PCA Initial Copy task list – result





## 2 Improved migration with automated task lists

ABAP task manager for lifecycle management automation



Runtime: ABAP task manager for lifecycle management automation

- Framework for automation of ABAP tasks
- Part of every ABAP system (as of certain release/SP level)
- Easy-to-use for everybody familiar with SAP ABAP systems (similar to SE38)

- Customizing of SAP pre-delivered task lists
- Creation of customer-specific task lists
- Variant maintenance of task lists
- Check mode for all tasks
- Resume of task lists in case of error
- Interrupt of task list execution
- Local/de-central execution
- Parallel execution on multiple systems
- Execution in dialog/background







## 3 Demo



- Execute the task lists in client 000.
- When executing a task list, mandatory and necessary SAP NetWeaver BW tasks are preselected for execution. Basis tasks that require input are not selected for execution by default – select the relevant tasks to be executed.
- Some tasks require your input. Choose Change Parameter in the Parameter column of each task, if applicable.



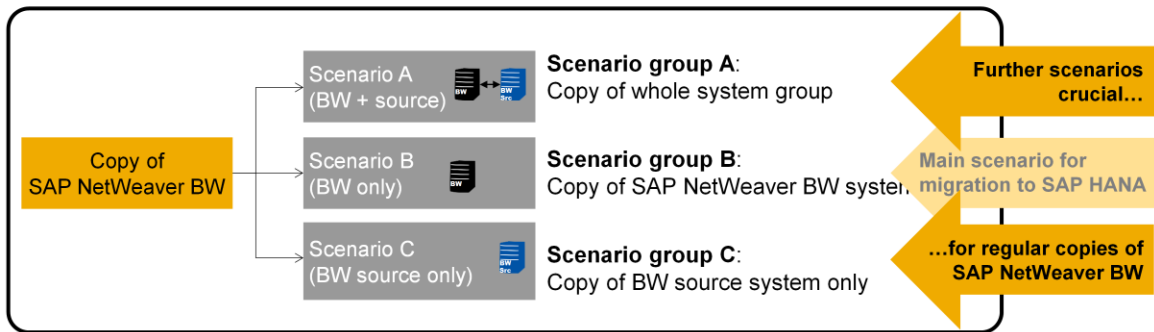
## **4 BW ABAP Post-Copy Automation for regular system copies**



## 4 BW ABAP PCA for regular system copies

Automated tasks relevant also for regular copies of SAP NetWeaver BW

BW ABAP PCA covers post-configuration for **all relevant initial copy scenarios** of SAP NetWeaver BW (not only scope required for migration)



**Scenario group A:** Copy of whole system group (SAP NetWeaver BW system + connected BW source systems)

**Scenario group B:** Copy of SAP NetWeaver BW system only – SAP NetWeaver BW source systems not copied

**Scenario group C:** Copy of BW source system only – SAP NetWeaver BW system not copied

For more information, see [SAP Note 886102](#)

## 4 BW ABAP PCA for regular system copies

Examples how you can handle connections with automation support

**Connected BW Systems**

BW System	Local Source Client	Delete Connection	Retain Connection	Retain Connection; System Copied as Well
BW_01	001	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
BW_02	001	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

Original system has two roles (BW source system for two connected system, BW system for four connected systems)

**Scenario C (source only):**  
Connection to system BW\_01 to be deleted in target system

Options for **scenario A** (whole system group)

**Connected BW Source Systems**

BW Source System	Local BW Client	Delete Connection	Retain Connection	Retain Connection; System Copied as Well
CRM_01	001	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
ERP_01	001	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
ERP_02	001	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
SRM_01	001	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

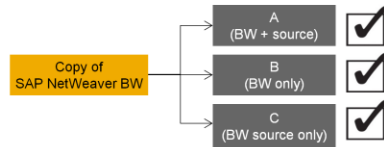
**Scenario B (BW only):**  
ERP\_02 system not needed as source in target  
SAP NetWeaver BW system

Task Select System Connections to be Retained after Copy will ask you for and check RFC destinations that enable access to local clients, if tasks have to be executed there. Thus, the respective tasks will be executed automatically in correct client.

## 4 BW ABAP PCA for regular system copies

Ease your regular SAP NetWeaver BW copies with automation

*BW ABAP PCA Initial Copy* task list also **major building block** for automation of **regular** initial system copies of SAP NetWeaver BW



*BW ABAP PCA Prepare* also relevant for certain use cases of initial system copy

**Profit from expert knowledge reflected in automated task lists also for your regular initial system copies of SAP NetWeaver BW – offered under license of SAP NetWeaver Landscape Virtualization Management**

Task	Description	Task	Description
0001	Initial System Copy (ISC)	0002	Initial System Copy (ISC)
0003	Initial System Copy (ISC)	0004	Initial System Copy (ISC)
0005	Initial System Copy (ISC)	0006	Initial System Copy (ISC)
0007	Initial System Copy (ISC)	0008	Initial System Copy (ISC)
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0011	Initial System Copy (ISC)	0012	Initial System Copy (ISC)
0013	Initial System Copy (ISC)	0014	Initial System Copy (ISC)
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0051	Initial System Copy (ISC)	0052	Initial System Copy (ISC)
0053	Initial System Copy (ISC)	0054	Initial System Copy (ISC)
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0065	Initial System Copy (ISC)	0066	Initial System Copy (ISC)
0067	Initial System Copy (ISC)	0068	Initial System Copy (ISC)
0069	Initial System Copy (ISC)	0070	Initial System Copy (ISC)
0071	Initial System Copy (ISC)	0072	Initial System Copy (ISC)
0073	Initial System Copy (ISC)	0074	Initial System Copy (ISC)
0075	Initial System Copy (ISC)	0076	Initial System Copy (ISC)
0077	Initial System Copy (ISC)	0078	Initial System Copy (ISC)
0079	Initial System Copy (ISC)	0080	Initial System Copy (ISC)
0081	Initial System Copy (ISC)	0082	Initial System Copy (ISC)
0083	Initial System Copy (ISC)	0084	Initial System Copy (ISC)
0085	Initial System Copy (ISC)	0086	Initial System Copy (ISC)
0087	Initial System Copy (ISC)	0088	Initial System Copy (ISC)
0089	Initial System Copy (ISC)	0090	Initial System Copy (ISC)
0091	Initial System Copy (ISC)	0092	Initial System Copy (ISC)
0093	Initial System Copy (ISC)	0094	Initial System Copy (ISC)
0095	Initial System Copy (ISC)	0096	Initial System Copy (ISC)
0097	Initial System Copy (ISC)	0098	Initial System Copy (ISC)
0099	Initial System Copy (ISC)	0100	Initial System Copy (ISC)

- Due to complete coverage of all relevant initial copy scenarios, BW ABAP PCA Initial Copy task list is also major building block for automation of regular initial system copies of SAP NetWeaver BW
  - Offered under license of SAP NetWeaver Landscape Virtualization Management (see following slides)
  - In case of regular initial copy, task list gets executed both in target SAP NetWeaver BW system and/or in BW source systems (depending on scenario)
- BW ABAP PCA Prepare also relevant for initial system copy, if new system is planned to use same SAP NetWeaver BW source system
- Profit from expert knowledge reflected in automated task lists also for your regular initial system copies of SAP NetWeaver BW with SAP NetWeaver Landscape Virtualization Management (see following slides)

## 4 BW ABAP PCA for regular system copies

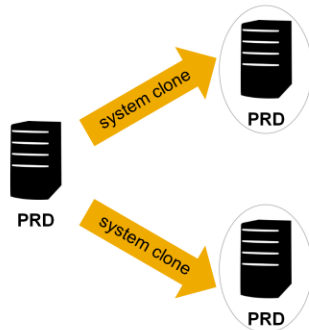
SAP NetWeaver Landscape Virtualization Management 1.0 – Key features



## 4 BW ABAP PCA for regular system copies

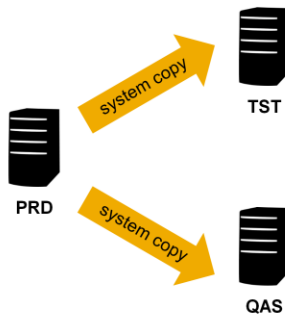
SAP NetWeaver Landscape Virtualization Management 1.0 – Use case examples

### System clone



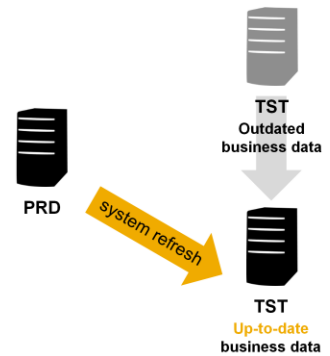
Example: Create isolated testing, demo or training systems

### System copy



Example: Create new QA/TEST systems

### System refresh

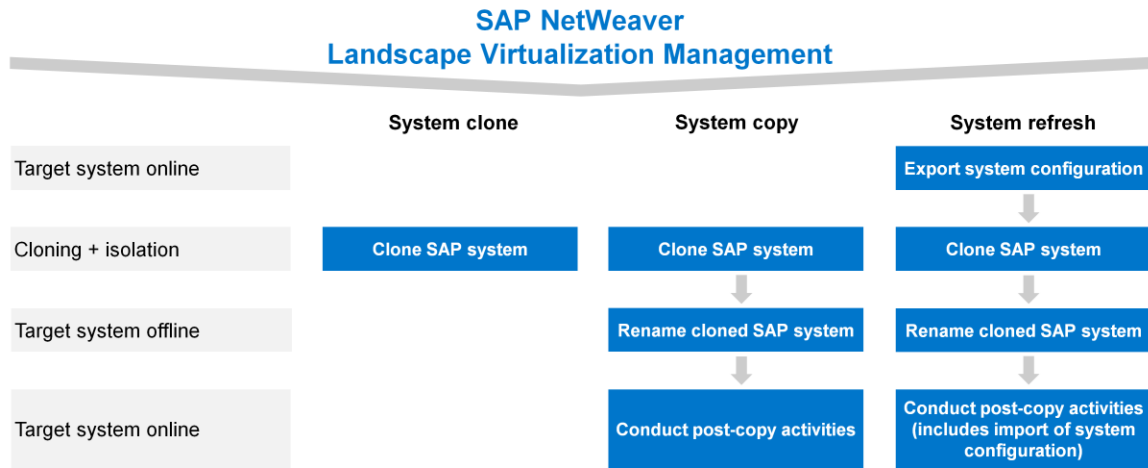


Example: Update existing QA/TEST systems with latest business data



## 4 BW ABAP PCA for regular system copies

SAP NetWeaver Landscape Virtualization Management 1.0 – Looking at the steps



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- Storage- or VM-based cloning
- Isolation of cloned system by OS firewall means



# **5 Rapid database migration of SAP NetWeaver BW to SAP HANA**

Introduction to SAP Rapid Deployment Solutions

Overview of the solution

Service delivery

Technical details



## SAP and a global partner ecosystem offer Rapid Deployment Solutions to meet specific business needs...

### **Software**

Quickly address the most urgent business processes

### **Content**

SAP best practices, templates and tools make solution adoption easier

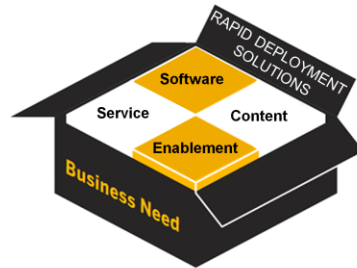
### **Enablement**

Guides and educational material speed end user adoption

### **Service**

Fixed scope and price provides maximum predictability and lowers risk

### **SAP Rapid Deployment Solutions**



## ... which allow predictability, out-of-the-box integration and adoption choices as business demands

### Predictability

- Fast value in days/weeks
- Fixed cost and fixed best practice scope

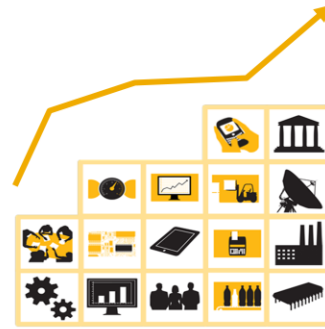
### Integration

- Integrated start and growth options
- Immediate and future IT and business processes landscape integrity

### Choice

- Modular packages to meet specific business needs and allow individual adoption paths
- Flexible licensing and deployment options

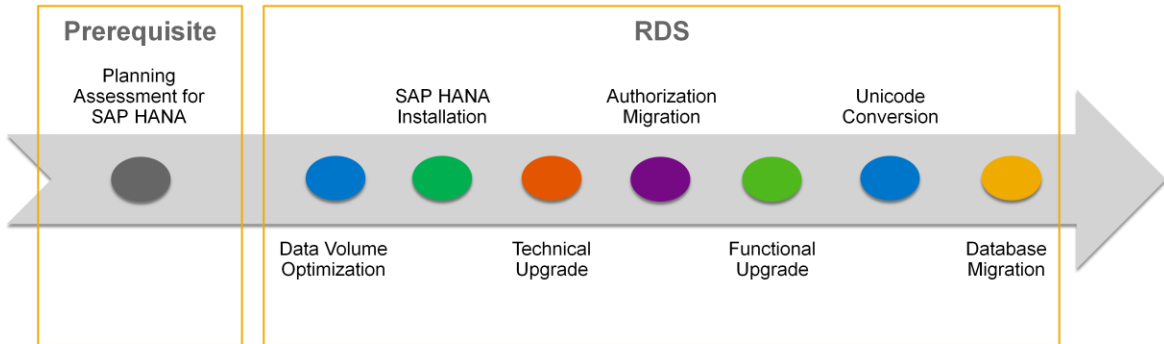
### SAP Rapid Deployment Solutions



## 5 Rapid database migration of SAP NetWeaver BW to SAP HANA

### What's included

This rapid-deployment solution provides an end-to-end solution for migrating an existing installation of the SAP NetWeaver® Business Warehouse to the SAP HANA® database without disruption of existing content



## 5 Rapid database migration of SAP NetWeaver BW to SAP HANA

### Detailed solution scope

#### Results of the Planning Assessment for SAP HANA

- BW version
- # of objects
- Size of the database
- Unicode readiness
- Authorizations readiness
- Data flows readiness
- Legacy RDBMS
- Level of customization
- # of SAP and non-SAP data sources
- ...

Based on the results of the Planning Assessment for SAP HANA, the customer relevant services are determined and scoped in order to provide an end-to-end RDS. Depending on the specific services needed, the RDS will be sized.

#### RDS

##### ✓ BW Database Migration

Unicode Conversion\*

##### ✓ BW Functional Upgrade

BW Authorization Migration\*

##### ✓ BW Technical Upgrade

##### ✓ Update of SAP HANA

##### ✓ BW Data Volume Optimization

\*In this example, Unicode Conversion and BW Authorization Migration are not needed

#### RDS Configuration

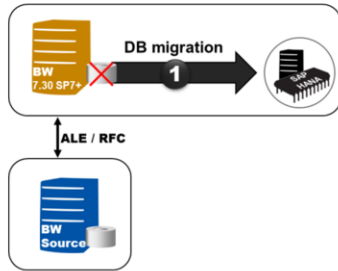
- Project plan
- Efforts
- Economical estimate
- Deliverables
- Delivery model
- Resources
- Architecture
- ...

## 5 Rapid database migration of SAP NetWeaver BW to SAP HANA

Migration paths covered – supported by Post-Copy Automation

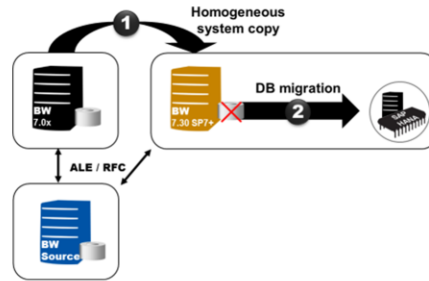
### Heterogeneous system copy

Migration according to a heterogeneous system copy without SAPSID, HOST & LOGSYS change. Directly exchange existing RDBMS with SAP HANA for the PRD system.



### Homogeneous system copy

Similar to the first path but performing a homogeneous system copy with SAPSID, HOST & LOGSYS change upfront, plus establishing Double Delta Queue (Delta Queue Cloning).



# 5 Rapid database migration of SAP NetWeaver BW to SAP HANA

## Implementation methodology

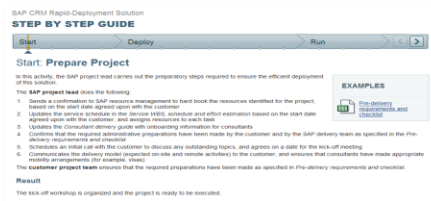
1 Start



2 Deploy



3 Run



Configuration Guide



Kickoff Workshop



Project Schedule

Scoping Questionnaire



Check Lists



Support Portal

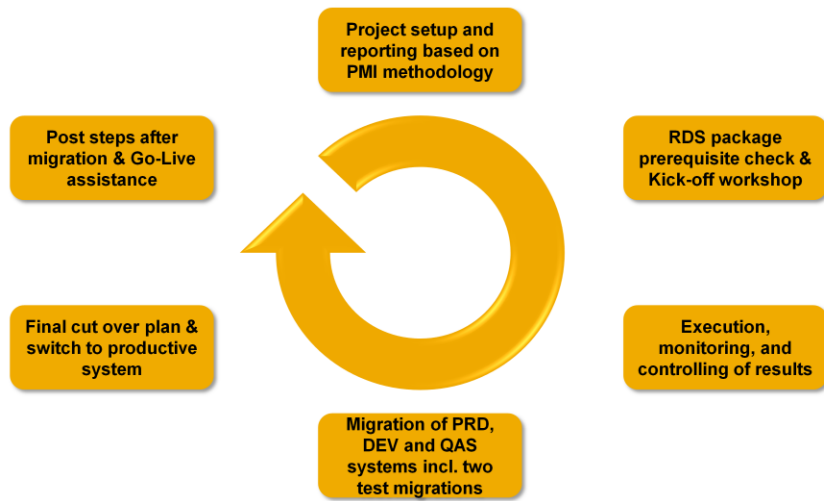


Note: This slide represents a typical deployment. Exact details may differ according to solution.



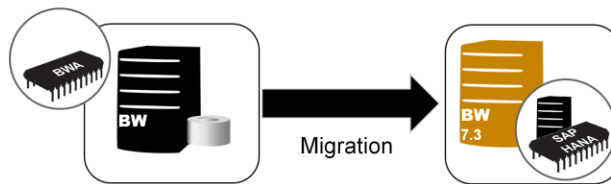
## 5 Rapid database migration of SAP NetWeaver BW to SAP HANA

Service scope overview – go live in as little as 8 weeks



## 5 Rapid database migration of SAP NetWeaver BW to SAP HANA

RDS technical details



Rapid database migration of SAP NetWeaver Business Warehouse to SAP HANA provides an end-to-end solution, to meet the migration prerequisites

- **Migration without reimplementation**
- **No disruption of existing scenarios**
- **Simplified process due to streamlining of steps**
- **Migration delivery assured due to fixed price and timelines for project**

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### Migration without reimplementation

- Flexible and unconstrained HANA migration
- Minimize time and effort to reap on accelerated BW in-memory reporting

### No disruption of existing scenarios

- Seamless transition
- All existing scenarios can be used

### Simplified process due to streamlining of steps

- Tool-based migration with SAP proven technology
- End-to-end solution based on individual customer needs

### Migration delivery assured due to fixed price and timelines for project

- Risk-free transition process
- Benefit from the knowledge and support of the originator of SAP HANA



## 6 Outlook



## 6 Outlook

### Migration tool to SAP HANA



All relevant steps for the in-place migration to SAP HANA are planned to be combined in one wizard: Unicode conversion, upgrade and migrate

#### Benefits / Goals:

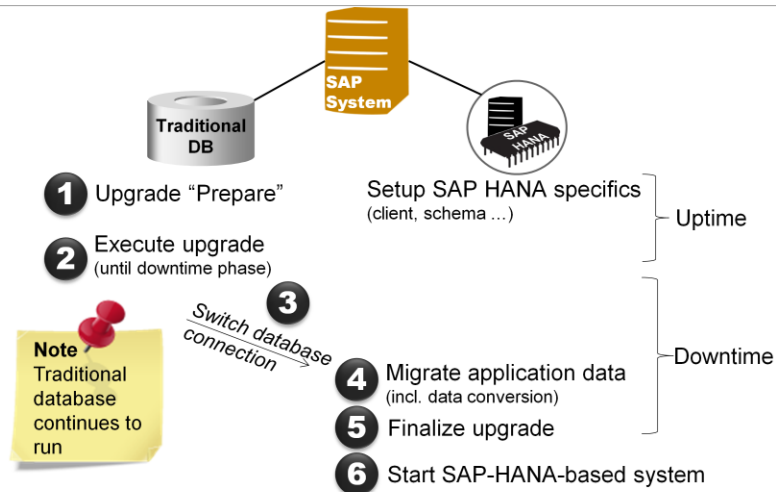
- Reduce manual effort and error-proneness
- Overall minimized process costs for overall project
- Optimized downtime (*depending on scenario*)

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For more information, see “TEC204 How to Migrate to SAP HANA (2h lecture)”

## 6 Outlook

### Migration tool to SAP HANA

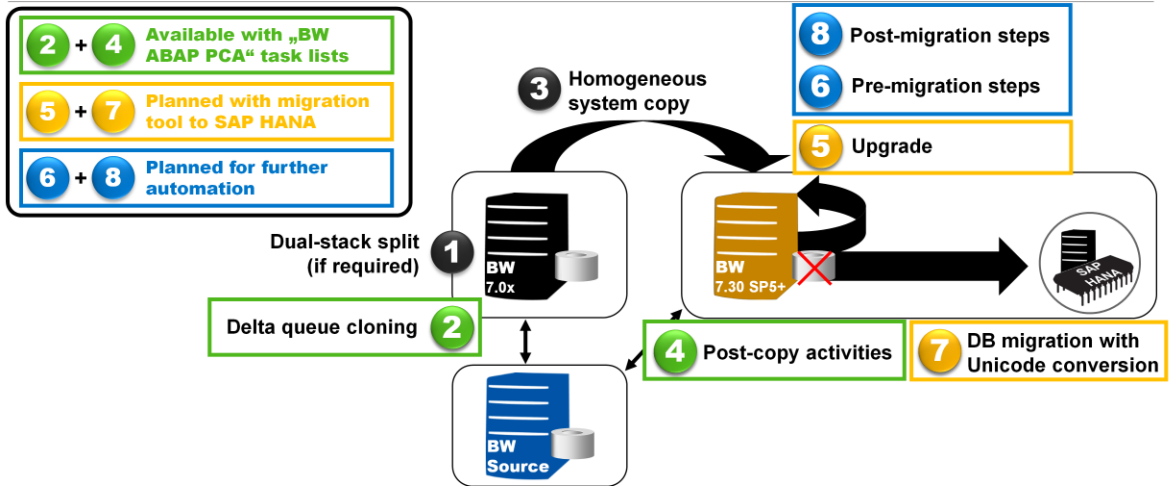


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For more information, see "TEC204 How to Migrate to SAP HANA (2h lecture)"

## 6 Outlook

Available and planned automation



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## **7 Summary + further information**



## 7 Summary + further information

### Summary

**1**

Enable **parallel operation** of original + new system

- Automated delta queue cloning + synchronization
- **Optimized downtime**



**2**

Clean up and configure target system with **post-copy automation**

- Crucial for **reliable and fast** migration process
- Available also for **regular** initial copies



**3**

Profit from **rapid deployment solution** that provides end-to-end solution for migration without disruption of existing content – possible go live in 8 weeks!

**Overall, migration made easier, faster and more reliable by presented offerings from SAP**

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- With **parallel operation** of original + new system, you enable non-disruptive usage and real-time comparison
  - Enabled by automated delta queue cloning + synchronization (BW ABAP PCA prepare)
  - **Optimized downtime**, especially for SAP NetWeaver BW source system
  - Delta queue cloning not possible before
- BW ABAP PCA initial copy cleans up and configures target system automatically
  - Crucial for **reliable and fast** migration process
  - Available for **regular** initial copies of SAP NetWeaver BW systems under license of SAP NetWeaver Landscape Virtualization Management
- Profit from a rapid deployment solution that provides end-to-end solution for migrating existing SAP NetWeaver BW to SAP HANA without disruption of existing content – with a possible go live in as little as 8 weeks!
- **Overall, migration made easier, faster and more reliable by presented offerings from SAP**



## 7 Summary + further information

End-to-end SAP Active Global Support service offering for migration to SAP HANA

### SAP Active Global Support is offering a service for migration to SAP HANA

**8 Appendix**  
End-to-end SAP Active Global Support service offering for migration to SAP HANA

**The Opportunity**

Run Better – Run your Best-Run Business on SAP HANA

- Unified and seamlessly integrated application and database stack
- Simplified maintenance
- Effective end-to-end operations support
- Reduced TCO
- Completely new possibilities with SAP HANA

**The Challenge**

Your valid questions around this offering may be ...

- Will the new platform fulfil the performance requirements?
- Will the SAP database fit into the existing infrastructure?
- What does it mean for the operations team?
- How can downtimes be managed?
- What is the project duration, related efforts and risks?

**The Offering**

SAP Solution Manager-based methodology Engineering Service

- Holistically approach, cover phases and aspects of such migration project
- Address the related challenges proactively
- Apply best practices and experience supporting the top 100
- Make a migration project effective and predictable

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**8 Appendix**  
End-to-end SAP Active Global Support service offering – Benefits

<b>1 Risk mitigated</b> <small>Complex user roles</small>	<b>5 Comprehensive</b> <small>Method implemented across all aspects of entire project</small>
<b>2 Fast time-to-value</b> <small>Benefit from existing knowledge is shared on migration</small>	<b>6 Expertise</b> <small>Active Global Support expertise on supporting top companies</small>
<b>3 Tailor fit</b> <small>Flexible plan service to local customer situation</small>	<b>7 Cost controlled</b> <small>Central planning and strong AGS partnership guarantees costs under control</small>
<b>4 Content</b> <small>Leverage the SAP Solution Manager roadmap</small>	<b>8 Quality optimized</b> <small>AGS actively manages QA during entire project</small>

How to get this? → Approach your local AGS contact person.

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**8 Appendix**  
End-to-end SAP Active Global Support service offering – delivery model

Project Management

Architecture

Migration Tasks

Operational Readiness

Change & Project Setup

Execution

Realization

Test & Release

- The methodology implemented in SAP Solution Manager
  - This is the backbone of each migration
  - All involved roles – SAP TQM consultants, customer experts, partners – leverage this methodology
  - Consistent approach and quality across all involved parties
- Best Practices templates and guidelines for each of the tasks
- Onsite services: workshops, ...
- Remote offerings: Expert Guided Implementations, remote service deliveries
- Enablement: Guided procedures, trainings, remote expert sessions

delivery model can be defined in a flexible way tailored to the concrete customer situation.

→ Customer controls package size.

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For more information, see corresponding slides in appendix or session TEC126.  
Please check details with your local AGS contact person.

## 7 Summary + further information

### Related sessions

#### Related SAP TechEd Sessions

- TEC105    SAP HANA Database for SAP Business Suite** (1h lecture)  
How to use and benefit from SAP HANA with SAP Business Suite applications
- TEC204    How to Migrate to SAP HANA** (2h lecture)  
How does overall migration process to SAP HANA look like, including involved tools + best practices
- EIM300    Migrating Your Business Warehouse to Run on SAP HANA** (1h lecture)  
How to bring SAP NetWeaver Business Warehouse 7.3 to SAP HANA
- EIM301    Upgrading Your Business Warehouse to Run on SAP HANA** (1h lecture)  
How to bring SAP NetWeaver Business Warehouse 7.0 to 7.3
- EIM205    Implementing SAP NetWeaver BW on SAP HANA – Lessons Learned** (2h lecture)  
Sharing of experiences of ramp-up projects at the customer site
- TEC126    Migration to SAP HANA Platform at Coca Cola FEMSA** (1h lecture)  
Customer experience of migration project with support of corresponding end-to-end SAP Active Global Support migration service offering

## 7 Summary + further information

### Related sessions

#### Related SAP TechEd Sessions

- EIM113    SAP Rapid Deployment Solutions for SAP HANA (1h lecture)**  
Overview of rapid deployment solutions in general and available + planned SAP HANA rapid deployment solution packages
- TEC113    SAP NetWeaver Landscape Virtualization Management software – Live In Action**  
1h lecture with overview and live demos
- TEC260    Get your hands on SAP NetWeaver Landscape Virtualization Management**  
2h hands-on workshop
- TEC3543   Roadmap – SAP NetWeaver Landscape Virtualization Management**  
1h roadmap lecture session
- ALM218    How to split your dual-stack system into two separate stacks (1h lecture)**  
Update on SAP's dual-stack strategy and detailed information about dual-stack split process, including demo

## 7 Summary + further information

### Further links

#### SAP Public Web

##### SAP Community Network (SCN):

- SAP NetWeaver BW landing page:  
<http://scn.sap.com/docs/DOC-7856>
- SAP NetWeaver Landscape Virtualization Management:  
<http://scn.sap.com/community/it-management/virtualization>

##### SAP Service Marketplace:

- SAP Rapid Deployment Solutions: <http://service.sap.com/rds>

##### SAP Help Portal:

- Documentation about SAP NetWeaver BW powered by SAP HANA:  
<http://help.sap.com/nw731bwhana>

The SAP NetWeaver BW landing page includes amongst others general information about migration, SAP NetWeaver BW powered by SAP HANA and BW ABAP PCA Configuration Guide.

The SAP NetWeaver BW powered by SAP HANA page in SAP Help Portal provides a lot of information and many guides, such as installation and upgrade guides, end-to-end installation and migration guide, administration and maintenance guides.

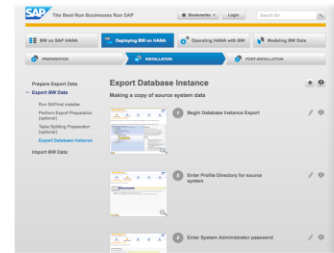
## 7 Summary + further information

### Further links

#### SAP Public Web

##### Experience SAP HANA page:

- General information about SAP HANA available at <http://www.experiencesaphana.com/>
- SAP NetWeaver BW on SAP HANA Cookbook available at <http://cookbook.experiencesaphana.com>
  - Cookbook provides overview and consolidates guides and SAP Notes relevant for moving SAP NetWeaver BW to SAP HANA in one location
  - Was created together with customers and has features to take notes and ask questions within context



#### Watch SAP TechEd Online

[www.saptech.com/online](http://www.saptech.com/online)



# Feedback

Please complete your session evaluation for **ALM 222**.

Contact information for this topic: [boris.zarske@sap.com](mailto:boris.zarske@sap.com)

**Thanks for attending this SAP TechEd session.**





## 8 Appendix



## 8 Appendix

### BW ABAP PCA Initial Copy task list – Included ABAP Basis tasks

- Initial consistency check (SICK)
- Set batch job to released/suspended
- Cleanup of ABAP Basis tables
- Cleanup and configuration of batch jobs (SM37)
- Cleanup of DB Admin tool configuration
- Cleanup of RFC inbound and outbound queue configuration
- Cleanup of background RFC
- Cleanup of SAPconnect configuration (SCOT)
- Cleanup and configuration of spool configuration (SPAD)
- Cleanup of trust manager configuration (STRUST)
- Cleanup and configuration of TMS configuration (STMS)
- Cleanup of Web service configurations
- Cleanup and configuration of secure store (SECSTORE)
- Scheduling of standard jobs for DBA planning calendar
- Configuration of licenses (SLICENSE)
- Configuration of logon groups (SMLG)
- Configuration of system profiles (RZ10)
- Configuration of operation modes (RZ04)
- Scheduling of dispatcher job for transport programs
- Configuration of SLD access data + data supplier
- Perform load generation (SGEN)
- Final consistency check (SICK)

S	L	Autom. Phase	Component	Task Description	H	P
0		Pre-check	CHECK	Initial Consistency Check (SICK)		
0		Prepare	BATCHJOB	Set Batch Jobs to Released/Suspended via BTCTRN1		
0		Cleanup	OTHERS	Cleanup of ABAP Basis Tables		
0		Cleanup	TIC_TASKRUN	Cleanup of Task List Runs		
0		Cleanup	TIC_TASKVAR	Cleanup of Task List Variables		
0		Cleanup	BATCHJOB	Cleanup of Batch Jobs (SM37)		
0		Cleanup	DBACOCKPIT	Cleanup of DB Admin. Tool Configuration (DBACOCKPIT)		
0		Cleanup	DBADMIN	Cleanup of DB Admin. Tool Config. (DBACOCKPIT) In		
0		Cleanup	RFC_IN	Cleanup of RFC Inbound Queue Configuration (RFC)		
0		Cleanup	RFC_OUT	Cleanup of RFC Outbound Queue Configuration (RFC)		
0		Cleanup	WDRFC	Cleanup of Background RFC Configuration (WDRFC)		
0		Cleanup	SCOT	Cleanup of SAPconnect Configuration (SCOT)		
0		Cleanup	SPAD	Cleanup of Spool Configuration (SPAD)		
0		Cleanup	STRUST	Cleanup of Trust Manager Configuration (STRUST)		
0		Cleanup	TMS	Cleanup of Transport Management System Config.		
0		Cleanup	WDRFC	Cleanup of Web Service Configurations (WDRFC)		
0		Cleanup	SECSTORE	Cleanup of Secure Store (SAP Note 1532825)		
0		Configuration	BATCHJOB	Configuration of Batch Jobs (SM37)		
0		Configuration	DBACOCKPIT	Scheduling of Standard Jobs for DBA Planning Calendar		
0		Configuration	LICENSE	Configuration of Licenses (SLICENSE)		
0		Configuration	LOGONGROUP	Configuration of Logon Groups (SMLG)		
0		Configuration	DBACOCKPIT	Configuration of HSQL		
0		Configuration	PROFILE	Configuration of System Profiles (RZ10)		
0		Configuration	OPMODE	Configuration of Operation Modes (RZ04)		
0		Configuration	SECSTORE	Configuration of Secure Store (SECSTORE)		
0		Configuration	SPAD	Configuration of Spool (SPAD)		
0		Configuration	TMS	Schedule Dispatcher Job for Transport Programs (TMS)		
0		Configuration	TMS	Configuration of Transport Management System (TMS)		
0		Configuration	SLD_ACCESS	Configuration of SLD Access Data (SLDACCESS)		
0		Configuration	SLD_SUPP	Configuration of SLD Data Supplier (SLDSUPP)		

Each task contains a description of the implemented activities, which is available in the Help column of the task list.



## 8 Appendix

### BW ABAP PCA Initial Copy task list – Included SAP-NetWeaver-BW-specific tasks

- Verify system configuration after copy
- Select system connections to be retained after copy
- Disconnect this source system from not-copied SAP NetWeaver BW systems
- Update host details of BW RFC destination
- Delete obsolete RFC destinations for SAP NetWeaver BW connectivity
- Delete connections of this SAP NetWeaver BW system to obsolete source systems
- Replace RFC destinations for SAP NetWeaver BW connectivity
- Replace transfer structure prefix for BW source system
- Remotely reconnect retained source systems
- Update ALE/IDoc settings in BW + BW source system
- Reset generation flag for DSO activation programs
- Delete BWA Index Status in the target BW system
- Update BI-Enqueue server name
- Update delta queues in BW source systems
- Resume request processing after delta queue cloning
- Restart RDA daemons and process chains

Pre-Check	BW	Verify System Configuration After Copy	
Prepare	BW	Select System Connections to be Retained After Copy	
Cleanup	BW	Disconnect this Source System from Not Copied BW ...	
Configuration	BW	Update host details of BW RFC destination	
Cleanup	BW	Delete Obsolete RFC Destinations for BW Connectivity	
Cleanup	BW	Delete Connections of this BW System to Obsolete S...	
	MANUAL_STEP	Confirmation: Firewall disabled?	
Cleanup	BW	Replace RFC Destinations for BW Connectivity	
Configuration	BDLS	Conversion of Logical System Names	
Configuration	BW	Replace the Transfer Structure Prefix for BW Source ...	
Configuration	BW	Remotely Reconnect Retained Source Systems to thi...	
Configuration	BW	Update ALE/IDoc Settings in this BW System	
Configuration	BW	Reset Generation Flag for DSO activation programs	
Configuration	BW	Delete BWA Index Status in the Target BW System	
Configuration	BW	Update BI-Enqueue Server Name	
Configuration	BW	Update Delta Queues in BW Source Systems from thi...	
Configuration	BW	Update ALE/IDoc Settings in the BW Source System	
Postprocessing	BW	Resume Request Processing after Delta Queue Cloning	
Postprocessing	BW	Restart RDA Daemons and Process Chains	
Configuration	SGEN	Perform Load Generation (SGEN)	
Postprocessing	BATCHJOBS	Set Batch Jobs to Released via BTCTRINS2	
Verification	CHECK	Final Consistency Check (SICK)	

Each task contains a description of the implemented activities, which is available in the Help column of the task list.

## 8 Appendix

### BW ABAP PCA task lists – supported releases for your reference

Software Component	Release	Minimum SP Level Requirements	SP Level where most changes are already implemented
SAP_BW	SAP BW 7.00	Support Package 17	Support Package 29
	SAP BW 7.01	Support Package 02	Support Package 12
	SAP BW 7.02	Support Package 01	Support Package 12
	SAP BW 7.10	not supported	not supported
	SAP BW 7.11	Support Package 02	Support Package 10
	SAP BW 7.20	not supported	not supported
	SAP BW 7.30	Support Package 01	Support Package 08
	SAP BW 7.31	Support Package 04	Support Package 04



Software Component	Release	Minimum SP Level Requirements	SP Level where most changes are already implemented
PI_BASIS (Plug-In Basis)	PI_BASIS 2005.1_700	Patch 0	Patch 7Q
	PI_BASIS 2006.1_700	Patch 0	Patch 17
	PI_BASIS 7.01	Patch 0	Patch 12
	PI_BASIS 7.02	Patch 1	Patch 12
	PI_BASIS 7.10	not supported	not supported
	PI_BASIS 7.11	Patch 1	Patch 10
	PI_BASIS 7.20	not supported	not supported
	PI_BASIS 7.30	Patch 1	Patch 8
	PI_BASIS 7.31	Patch 4	Patch 4



## 8 Appendix

### BW ABAP PCA task lists – supported releases for your reference

Software Component	Release	Minimum SP Level Requirements	SP Level where most changes are already implemented
SAP_BASIS	SAP NetWeaver 7.00	Support Package 14	Support Package 26
	SAP NetWeaver 7.01	Support Package 00	Support Package 11
	SAP NetWeaver 7.02	Support Package 00	Support Package 10
	SAP NetWeaver 7.10	not supported	not supported
	SAP NetWeaver 7.11	Support Package 09	Support Package 09
	SAP NetWeaver 7.20	not supported	not supported
	SAP NetWeaver 7.30	Support Package 01	Support Package 05
	SAP NetWeaver 7.31	Support Package 01	Support Package 01



Minimum requirements have to be met in the original system that you want to copy (for migration, this would only be the original SAP NetWeaver BW system, for regular initial copies, this might also be the original BW source system depending on the selected scenario).

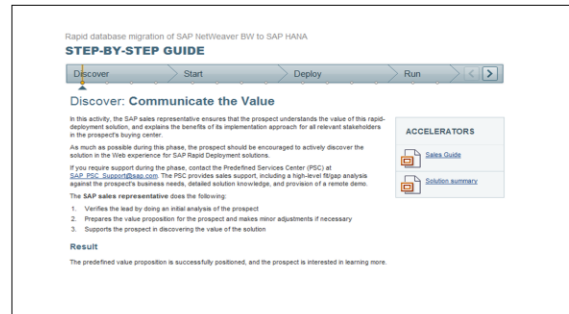
## 8 Appendix

### RDS service scope overview – go live in as little as 8 weeks

Note: The RDS can be tailored and covers several services. The following information applies to the Database Migration Service only, in case SAP NetWeaver BW is ready for migration!

#### What's included in the service

- Project setup and reporting (project planning, assignment of roles and responsibilities etc.)
- Kick-off Workshop
- Prerequisites Check
- Execution, monitoring, and controlling of results
- Migration to the SAP HANA Database by Heterogeneous System Copy
  - Two test migrations (on copy of the PRD BW)
  - PRD Migration
  - DEV Migration (optional)
  - QAS Migration (optional)
- Post Steps after migration
- Final Cutover Plan / Go-Live assistance



A special step-by-step guide describes each activity during the deployment

## 8 Appendix

### RDS software requirements

---

#### **Prerequisites:**

- SAP NetWeaver BW must be running on version 3.5 or higher, Unicode or Non-Unicode
- SAP NetWeaver BW must be ABAP only
- SAP Solution Manager application must be running on the latest version and support package

#### **SOFTWARE**

- SAP NetWeaver BW 7.3 powered by SAP HANA

#### **OPERATING SYSTEM**

- NA

#### **DATABASE**

- Oracle 11.2
- IBM DB2 LUW 9.7
- SAP MaxDB 7.8
- Microsoft SQL server 2008
- IBM DB2 for i61, 7.1
- IBM DB2 for z/OS V9, V19

## 8 Appendix

### End-to-end SAP Active Global Support service offering for migration to SAP HANA

#### The Opportunity



##### Run Better – Run your Best-Run Business on SAP HANA

- Unified and seamlessly integrated application and database stack
- Simplified maintenance
- Effective end-to-end operations support
- Reduced TCO
- Completely new possibilities with SAP HANA

#### The Challenge



##### Your valid questions around this offering may be ...

- Will the new platform fulfill the performance requirements?
- Will the SAP database fit into the existing infrastructure?
- What does it mean for the operations team?
- How can downtimes be managed?
- What is the project duration, related efforts and risks?

#### The Offering

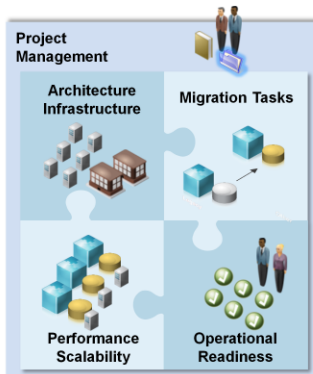


##### SAP Solution Manager-based methodology and Engineering Service

- Holistically approach, covering all phases and aspects of such a migration project
- Address the related challenges proactively
- Apply best practices and experiences from supporting the top companies
- **Make a migration project safe, effective and predictable**

## 8 Appendix

### End-to-end SAP Active Global Support service offering – delivery model



- The **methodology** implemented in SAP Solution Manager
  - This is the backbone of each migration
  - All involved roles – SAP TQM, consultants, customer experts, partners – leverage this methodology
  - Consistent approach and quality across all involved parties
- **Best Practices** templates and guidelines for each of the tasks
- **Onsite services**: workshops, ...
- **Remote offerings**: Expert Guided Implementations, remote service deliveries
- **Enablement**: Guided procedures, trainings, remote expert sessions

The delivery model can be defined in a flexible way tailored to the concrete customer situation.

→ Customer controls package size.

## 8 Appendix

### End-to-end SAP Active Global Support service offering – Benefits

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#### **1 Risk mitigated**

Keep risks under control

#### **2 Fast time-to-value**

Benefit from existing knowledge to speed up migration

#### **3 Tailor fit**

Flexible plan service to local customer situation

#### **4 Content**

Leverage the SAP Solution Manager roadmap

#### **5 Comprehensive**

Holistic end-to-end view to all aspects of entire project

#### **6 Expertise**

Active Global Support expertise on supporting top companies

#### **7 Cost controlled**

Careful planning and strong AGS partnership guarantees costs under control

#### **8 Quality optimized**

AGS actively manages QA during entire project

**How to get this? → Approach your local AGS contact person.**



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