



User Guide | PUBLIC

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SAP Readiness Check for SAP BW/4HANA

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1 Introduction

General Introduction

SAP BW/4HANA is SAP's next generation data warehouse solution. It is a new product that means it is not a legal successor of any existing SAP Business Warehouse solution and it is built entirely on one of the most advanced in-memory platforms today - SAP HANA. It provides a simple set of objects that is well-suited for modeling an agile and flexible layered architecture of a modern data warehouse. SAP BW/4HANA manages all sorts of data, whether from SAP applications or other systems, structured or unstructured, and allows accessing of models through an open SQL interface. SAP BW/4HANA comes with state-of-the-art user interfaces for administrators, developers, and end users as well as completely SAP HANA-optimized processes that let you leverage huge amounts of data in real time for competitive advantage.

The core functionality of SAP BW is preserved and the transition to SAP BW/4HANA can be compared with the transition of SAP Business Suite to SAP S/4HANA. As part of this transition, SAP BW/4HANA will drastically reduce the number of data objects to be stored and maintained. Future innovations will take place in SAP BW/4HANA. Prior releases of SAP BW powered by SAP HANA will move into maintenance, receiving little development or new functionality moving forward.

With SAP BW/4HANA, SAP has rearchitected its solution for modern data warehousing processes that the ever-increasing digitization of the world demands. Rearchitecting a solution that has been growing over the past 20 years and has, at points, evolved into different data structures and architectures means that we also have to decide on one data structure and architecture as we move forward. This is the only way that we can prepare the solution for increased simplicity and faster innovation cycles.

Converting a typical SAP BW 7.x system to SAP BW/4HANA requires a database migration to SAP HANA (if not currently running on SAP HANA), the conversion of data models and flows to objects compatible with SAP BW/4HANA, and the installation of new simplified code and adaptations.

A comprehensive overview of the simplifications for SAP BW/4HANA, compared to SAP Business Warehouse products, are captured in the simplification list at https://help.sap.com/viewer/p/SAP_BW4HANA. For a given customer, only a limited number of simplification items from this extensive list are applicable.

To provide customers with a better view of the results for their system landscapes when converting to SAP BW/4HANA, SAP offers SAP Readiness Check for SAP BW/4HANA.

Disclaimer

SAP does not guarantee the completeness of SAP Readiness Check for SAP BW/4HANA. SAP Readiness Check is designed as a first check in system conversion planning.

The simplification list for SAP BW/4HANA and its related restrictions continue to evolve, meaning some restrictions may be temporary. Also, a customer may expand the solution. SAP Readiness Check results reflect a specific point in time for the system in scope.

While a customer might not use some installed functions, the SAP Readiness Check for SAP BW/4HANA does not in every case differentiate between used and installed components.

SAP recommends that customers carefully read the simplification list's introduction on https://help.sap.com/viewer/p/SAP_BW4HANA. The introduction contains important information on how to interpret the simplification items.

SAP also recommends that customers always check the latest release restriction notes which might contain additional restrictions not maintained in the simplification list.

How Does SAP Readiness Check for SAP BW/4HANA Support You?

SAP Readiness Check for SAP BW/4HANA supports customers who are planning to convert existing SAP BW 7.X systems to SAP BW/4HANA. It checks both your production systems (or copies thereof) and your development systems for SAP BW/4HANA conversion compatibility and necessary conversion preparation steps. The results are consolidated in an interactive dashboard for internal communication or communication with SAP.

SAP Readiness Check for SAP BW/4HANA provides you with a preconversion overview, useful for identifying current system landscape preparation steps, well in advance of your SAP BW/4HANA system conversion project start date.

What Information Do You Get?

SAP Readiness Check for SAP BW/4HANA evaluates specific areas and provides detailed information about the results.

The areas are as follows:

Area	Information
Functional changes	Simplifications in SAP BW/4HANA relevant for your specific system installation. Their impact is described in the corresponding SAP Notes
	Installed SAP add-ons and third-party add-ons, and their compliance with SAP BW/4HANA
System statistics	Technical system information
System requirements	Estimated SAP BW/4HANA system size and recommendations to reduce the size before the conversion
System configuration	Information on compatibility of configured BW objects with SAP BW/4HANA and available conversion tools

2 Preparing SAP Readiness Check for SAP BW/4HANA

Prerequisites

- Ensure that you have an S-user for the SAP Support Portal
- Minimal transaction history of 6-8 weeks (transaction ST03) in the production system or the system in which you want to execute the application analysis. Otherwise, SAP Readiness Check for SAP BW/4HANA can return inaccurate results.
- Implement SAP Note [2575059](#). We recommend implementing it in your production system but you can also implement it in the system of your choice to perform the check.

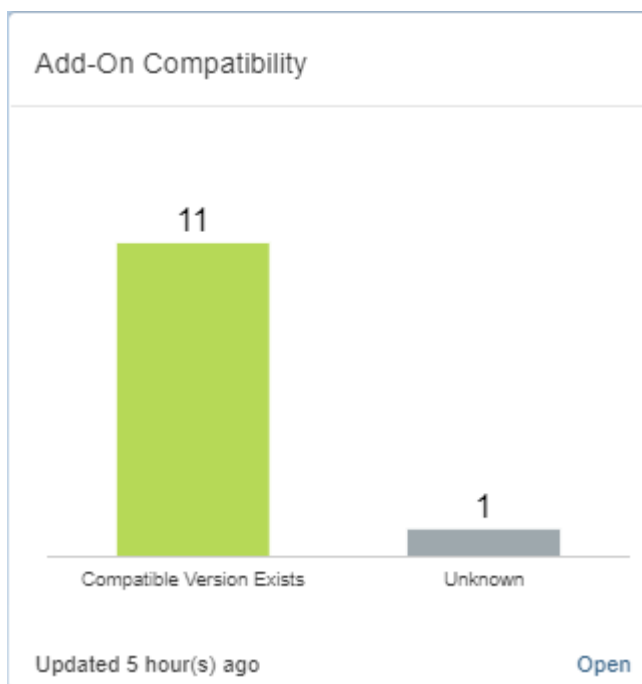
3 Checking the Results

SAP Readiness Check for SAP BW/4HANA provides you with an overview of the most important aspects of your analysis.

In the SAP Readiness Check tool, you can access any of the tiles in your analysis overview in order to get to the detailed information on every aspect.

Navigate to the following subchapters in this guide to read more about the analysis of each aspect.

3.1 Add-On Compatibility



This check shows how many add-ons are installed in your system, and whether they are compatible with SAP BW/4HANA. In the detail view, you find the names of the add-ons, the vendor (SAP, third-party on SAP price list, third-party unknown) and the compatibility status.

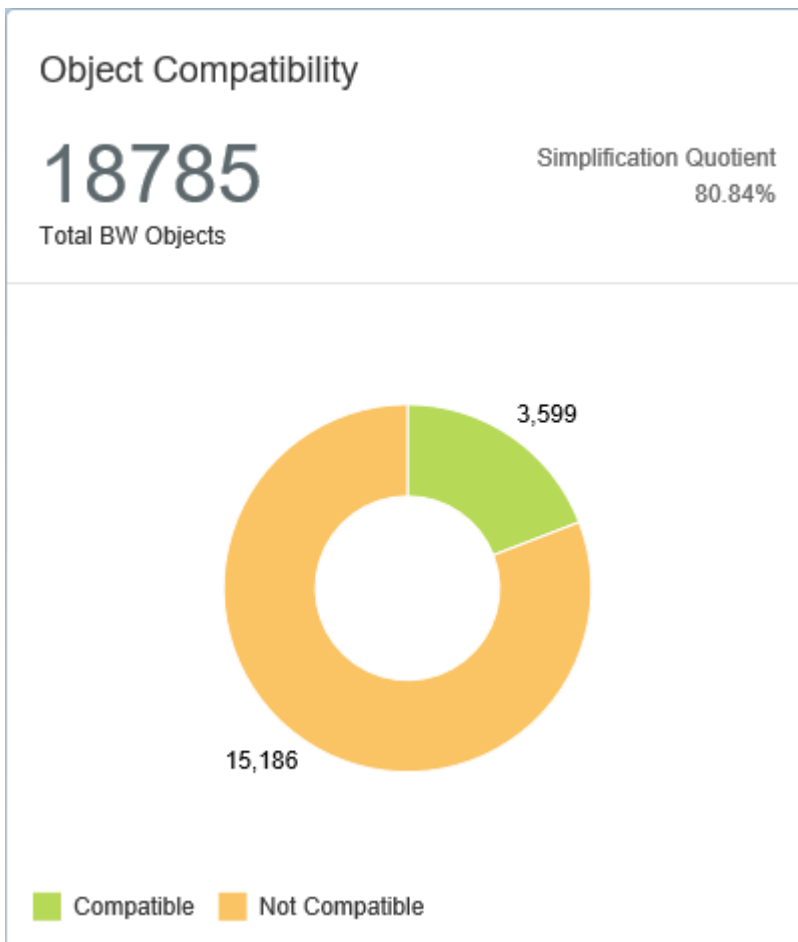
This helps you to figure out whether you need to follow-up with SAP third-party vendors to ensure the SAP BW/4HANA compatibility of an add-on. For more details about add-on compatibility, see SAP Note [2189708](#).

i Note

Please note that SAP cannot provide information about the compatibility of third-party add-ons that are not on SAP's price list. For information on these add-ons and their SAP BW/4HANA compatibility, please contact the vendor directly.

Name	Vendor	Status	SAP Notes
CGS 120_700 [0011(0011)]	non-SAP	Unknown	
SAP Simple Finance, on-premise edition 1503	SAP	Compatible Version Exists	
Change Sales Orders 1.0	SAP	Compatible Version Exists	
Create Sales Orders 1.0	SAP	Compatible Version Exists	
SAP Multiresource Scheduling 7.0 with optimizer	SAP	Compatible Version Exists	

3.2 Object Compatibility



The object compatibility check scans your complete SAP BW 7.x system for all types of BW objects (TLOGOs). For each BW object type, the check counts the number of instances, for example the number of InfoCubes, configured in your system and determines if the objects are compatible with SAP BW/4HANA. Incompatible objects are split between objects that can be converted automatically - you can see which tool to use in the detailed view - and objects that will require a manual redesign (or a deletion). If incompatible objects are found, the corresponding simplification item and a link to its documentation is displayed.

If you want a detailed analysis that tells you which individual objects in your system are compatible with SAP BW/4HANA can be converted automatically or need manual redesign, install and run the Pre-Check Tool (programs RS_BW4HANA_CONVERSION_CONTROL, see SAP Note [2383530](#)).

OBJECT COMPATIBILITY Show Description

General Statistics:
 Total: 18785
 Compatible: 3599
 Not Compatible: 15186

BW Object Type	Number of Objects	Status	Description	Simplification Items	SAP Note Number
BEx Web Template (3.x)					
BEx Web Template (3.x)	196	Not compatible with SAP BW/4HANA / No tool available	Manual re-design of BW front-end required (automatic deletion available)	BW4SL - BEx Web Templates (3.x)	2444136
BEx Web Item (3.x)					
BEx Web Item (3.x)	196	Not compatible with SAP BW/4HANA / No tool available	Manual re-design of BW front-end required (automatic deletion available)	BW4SL - BEx Web Templates (3.x)	2444136
DataSource (3.x)					
DataSource (3.x)	141	Not compatible with SAP BW/4HANA / No tool available	Migration of 3.x to 7.x data flow required	BW4SL - DataSources (3.x)	2470352

SAP BW objects are listed according to their compatibility with SAP BW/4HANA:

Green Bar - The objects are compatible with SAP BW/4HANA and can be used without changes.

Yellow Bar - The objects are compatible with SAP BW/4HANA. They either have to be changed, replaced or deleted. We have a tool available to automate this process (partially or fully). The to-do column will give a bit of details about it.

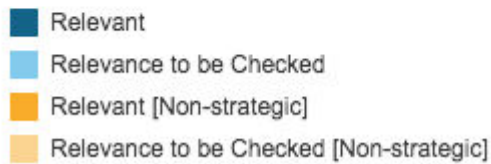
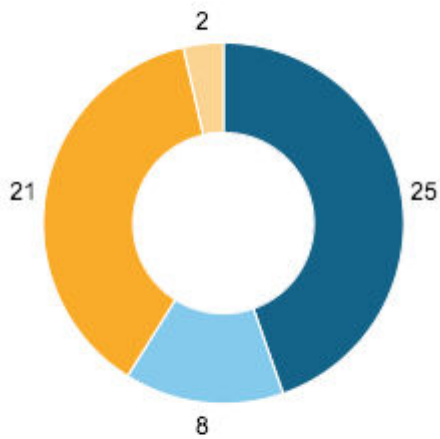
Red Bar - The objects are not compatible with SAP BW/4HANA. They either must be changed, replaced or deleted. However, there are no tools available and the redesign must be done manually. In most such cases, we offer an automated deletion for any objects the customer deems obsolete.

3.3 SAP BW/4HANA Simplification Items

Simplification Items

56

Total Relevant Items



SAP BW/4HANA provides new and updated data structures and architectures for data warehouse processes. Therefore, solutions reflect increased simplicity and faster innovation cycles.

The total list of more than 80 simplification items for SAP BW/4HANA 1.0 may appear quite long. For a given customer, only a limited number of simplification items from this extensive list are applicable. The list covers all system capabilities, to include industry solutions.

The SAP Readiness Check for SAP BW/4HANA displays the simplification items that are relevant for your specific SAP BW 7.x system installation. Whether a simplification item is identified as relevant, is based on factors such as data model, and flow configuration, transactions used, and table contents. Therefore, we recommend executing SAP Readiness Check for SAP BW/4HANA on an SAP BW 7.x production system where a transaction history and system usage of at least 6–8 weeks is available.

SIMPLIFICATION ITEMS

Show Description

Insufficient ST03N Data for Proper Analysis

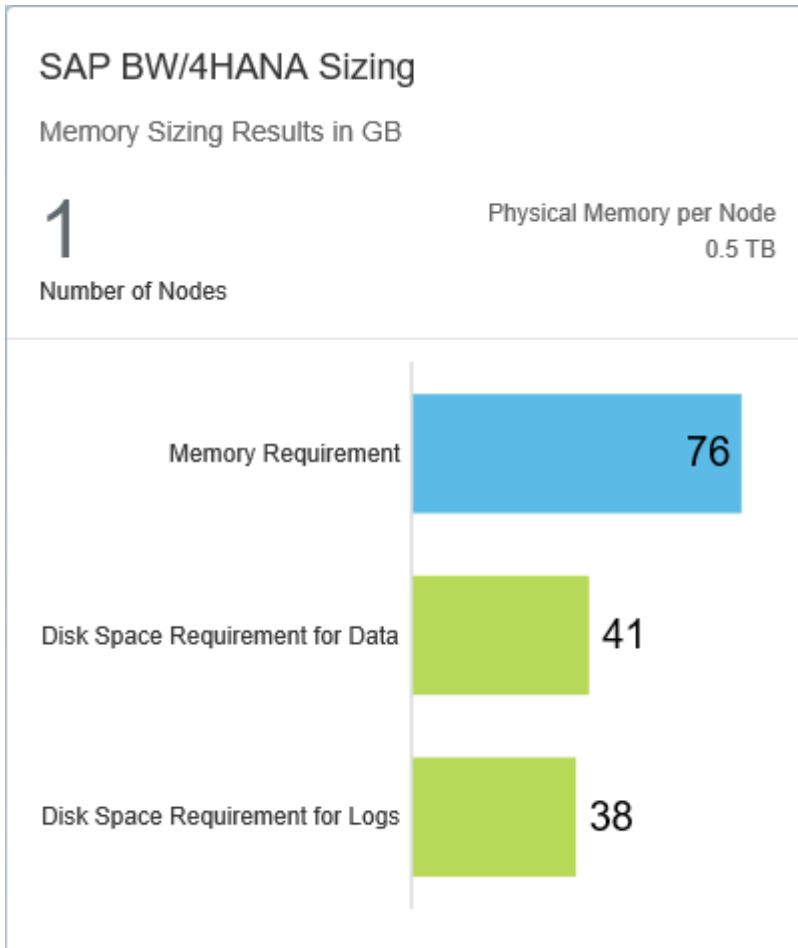
General Statistics:

Total: 84 Relevant: 21 Relevant [Non-Strategic]: 18 Simplification Item Content Version: Tue Nov 28 2017 10:37:01 GMT+0100 (W. Europe Standard Time)
 Non-Relevant: 31 Relevance to Be Checked: 8 Relevance to Be Checked [Non-Strategic]: 6 SAP Note (Version): 2399707 (73)

Title	Group	Application Area	Category	SAP Note Number	Application Component	Relevance
BW4SL - BW Queries BW200: BW Queries	Relevant	SAP BW - Analytic Manager	Functionality unavailable (no equivalent)	2479663	BW-BEX-OT-OLAP	■■
BW4SL - BW Source Systems BW157: BW Source Systems	Relevant	SAP BW - Data Staging	Functionality unavailable (equivalent exists)	2473145	BW-WHM-DST-SRC	■■
BW4SL - DataSources (3.x) BW136: DataSources (3.x)	Relevant	SAP BW - Data Staging	Functionality unavailable (equivalent exists)	2470352	BW-WHM-DST-DS	■■
BW4SL - Generic and Export DataSources	Relevant	SAP BW - Data Staging	Functionality unavailable	2470352	BW-WHM-DST-DS, BW-WHM-	■■

In the detailed view, you see the list of simplification items including an estimation of their relevance for your SAP BW 7.x system. The detailed view also includes a reference to each simplification item's group, application area, and SAP Note where you can find additional information.

3.4 SAP BW/4HANA Sizing



Here you find information about the total sizing estimation for SAP BW/4HANA. The values on the tile reflect the estimated size requirements for the initial installation (initial target size, ITS) of SAP BW/4HANA, based on the data in your system.

For a more detailed analysis of the sizing report results, as well as a description of the results, please see SAP Note [2296290](#).

i Note

Be aware that the results are estimations and not an exact projection. Do not consider the estimated anticipated maximum requirement as the final memory sizing result. You must still take into account the following aspects:

- Not all server memory is available for SAP HANA. Some memory needs to be reserved for the operation system and other running applications, if applicable.
- There must be enough space left for future data growth, orhter planned acquisitions, and new functionality that you plan to introduce within your SAP BW/4HANA project.

General Statistics:

Type of Analyzed Database: MSSQL
 Version of Report/SDF/HANA_BW_SIZING: 2.5.7
 Content Version: Mon Oct 30 2017 21:33:52 GMT+0100 (W. Europe Standard Time)

SAP Note: [2296290](#)
 For more information, check the document attached to SAP Note

Top Database Tables					
Name	Store Type	Object Type	Estimated HANA Size in GB	Active Data in GB	Estimated Record Count
WBCROSSGT	Column Store	Tables in SAP Namespace	2	2	18,037,599
REPOSRC	Column Store	Tables in SAP Namespace	1	1	1,357,553
OCSCMPLOBJ	Column Store	Tables in SAP Namespace	1	1	1,322,387
BALDAT	Column Store	Tables in SAP Namespace	1	1	1,892,734
D010TAB	Column Store	Tables in SAP Namespace	1	1	12,928,933
REPOLOAD	Column Store	Tables in SAP Namespace	<1	<1	139,143
D010INC	Column Store	Tables in SAP Namespace	<1	<1	5,567,169
CWBCIDATAOBJ	Column Store	Tables in SAP Namespace	<1	<1	555,603
DOKCLU	Column Store	Tables in SAP Namespace	<1	<1	582,032

Top Database Tables

This section lists the top size database tables including their row counts. Based on this information, you get one of many aspects that determine the runtime during the conversion process.

Housekeeping



This section shows tables grouped by application categories.

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