

# SAP S/4HANA Comprehensive Assessment and Readiness Check for Version 1909

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# 1 Introduction

## 1.1 General Introduction

SAP S/4HANA is SAP's next-generation business suite. It is not the legal successor of any SAP Business Suite product. SAP S/4HANA is a new product completely built on SAP HANA, which is one of the most advanced inmemory platforms today. In addition, SAP S/4HANA reflects modern design principles based on the SAP Fiori user experience.

In an approach to build SAP S/4HANA, SAP has re-imagined solutions for modern business processes in an increasingly mobile and digitized world. SAP S/4HANA delivers massive simplifications and innovations, deliverable on one data structure and architecture moving forward.

Converting a typical SAP ERP 6.x system to SAP S/4HANA requires a database migration to SAP HANA (if not currently running on SAP HANA), and the installation of new simplified code and adaptions.

A comprehensive overview of all simplifications for SAP S/4HANA, compared to SAP Business Suite products, are captured in the simplification list at <a href="https://help.sap.com/viewer/p/SAP\_S4HANA\_ON-PREMISE">https://help.sap.com/viewer/p/SAP\_S4HANA\_ON-PREMISE</a>. For a given customer, only a limited number of simplification items from this extensive list are applicable.

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

# 1.2 Scope of This Document

SAP Readiness Check for SAP S/4HANA enables you to better understand the implications of a conversion from an existing SAP ERP system to SAP S/4HANA. The check helps to identify necessary preparations and pre-projects in the current system landscape, long before an SAP S/4HANA system conversion project starts.

The results of SAP Readiness Check for SAP S/4HANA – for the system ID given on the front page – are presented in this document.

For useful transactional data and history, we recommend running SAP Readiness Check for SAP S/4HANA on a production system (or a recent copy of one). SAP Readiness Check for SAP S/4HANA includes system-specific information on adjustments that are mandatory for the conversion to SAP S/HANA

- Add-on compatibility
- Active business functions
- SAP S/4HANA simplification items
- Custom code

In addition, SAP Readiness Check for SAP S/4HANA provides system-specific information regarding:

- SAP Custom Development projects
- SAP HANA sizing
- SAP Business Process Analytics





## 1.3 Disclaimers

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

The simplification list for SAP S/4HANA and its related restrictions continue to evolve, meaning some restrictions may be temporary. Also, a customer may expand the solution. The readiness check's 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 S/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\_S4HANA\_ON-PREMISE. 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.

SAP Readiness Check for SAP S/4HANA's custom code analysis identifies mandatory change areas due to the simplified application architecture of SAP S/4HANA. Custom code analysis does not contain a list of all adaptations necessary to support SAP HANA as a database. In addition, the analysis does not include general prerequisite adaptations for SAP HANA database migration. Lastly, the analysis does not include requisite adaptations for future add-ons or for custom code unrelated to SAP S/4HANA.

# 1.4 Analysis Scope

SID of System of Analysis	Date of Analysis
TFP	XX.XX.XXXX

#### SAP S/4HANA: TARGET PRODUCT VERSION

Product	Product Version
SAP S/4HANA	SAP S/4HANA 1909

#### **CURRENT DATABASE**

SID	Database System	DB ID
TFP	ORACLE	TFP

## **OPERATING SYSTEM / SAP KERNEL**

SID	Operating System	OS Version	SAP Kernel Release
TFP	Linux	2.6.32-431.el6.x86_64	721

**Core System Details** 

740 SAP version

operating system Windows NT

machine type 8x AMD64 Level 6 (Mod 79 Step 1)

node name **SAPECCIDES** 





SAP system id 562 database system MSSQL database name G10

database host **SAPECCIDES** 

database owner g10

rsyn

10.0.1.125 IP address kernel release 745

database library SQL\_Server\_9.00

kernel compiled NT 6.3 9600 x86 MS VC++ 18.00 use-pr20170925 Sep 25 2017 17:13:26

kernel patch level 600

supported SAP vers. 740, 750, 762

supported database MSSQL 9.00.2047 or higher

valid OP system Windows NT 6.0, Windows NT 6.1, Windows NT 6.2, Windows NT 6.3, Windows NT 10.0

OP system release 6.3 ABAP load version 2113 CUA load version 40 kernel kind opt relinfo valid hot package level 9 base release 740





# 1.5 Execution Summary

The S/4 HANA Readiness Check was performed for the TFP system. We recommend you review the Readiness Check <u>here</u>.

During the session, we have checked TFP system for Add-On Compatibility and found compatible version exist for the S/4 HANA 1709. Please review section 2.1 for more details. We also reviewed Active Business Functions in your current system and found that all active business functions are compatible to S/4 HANA

1709. Kindly review section 2.2 for more details. We also recommend you review and implement Recommended Additional checks to meet minimum system and landscape requirements for a system conversion.

We also checked TFP system for required solution adjustments for a system conversion to SAP S/4 HANA. In section 3.1 we have provided list of Simplification Items which are further divided based on category like Relevant Simplification Items, Simplification Items with Relevance to be Checked, Relevant Non-Strategic Simplification Items and Non-Strategic Simplification Items with relevance to be checked. We recommend you review and perform the additional checks recommended in section 3.2.

We reviewed TFP system for required Custom Code Adjustments for a System Conversion to SAP S/4 HANA. We recommend you review recommendations for Custom Code provided in section 4.1, we also recommend you review this section in Custom Code Analysis section of dashboard. We recommend you review and perform the additional checks recommended in section 4.2.

HANA Sizing checks were also performed on current DB in TFP system, we recommend you review SAP HANA Sizing Results provided in section 4.1. These results help you in deciding appropriate hardware configuration for HANA DB hosts.

We also found various business process which can be migrated to Fiori Apps, we recommend you review section 6.1 and to review dashboard for more details on the processes identified. We also recommend you review section 6.2 for more details on Business Process Analytics which elaborate on transactional backlog such as open documents overdue for processing. Old backlog documents should be closed for system archiving. Otherwise, backlog documents are subject to migration and memory consumption in the new SAP S/4HANA environment

We recommend you review section 7 for more details on Next Steps and Further Information.





# 2 Minimum System and Landscape Requirements for a System Conversion to SAP S/4HANA

The following section contains information on the compatibility of the installed add-ons and active business functions with SAP S/4HANA. It also provides information on additional important checks that are not provided as part of SAP Readiness Check for SAP S/4HANA.

# 2.1 Add-On Compatibility

#### **OVERVIEW BY STATUS**

Status	Number of Add-Ons
Compatible Version Exists	1

#### SAP ADD-ONS ARE NOT (YET) SUPPORTED FOR SAP S/4HANA

None

#### SOFTWARE COMPONENT VERSIONS NOT ASSIGNED TO ANY INSTALLED PRODUCT VERSION

None

#### 3RD PARTY ADD-ONS

None

For 3rd party add-ons, please contact the vendor directly to confirm that the respective add-on is released for SAP S/4HANA in its current version or in a successor version.

If an add-on is no longer required, please check with the vendor if a package for uninstalling the add-on is available.

The following SAP Notes contain more information on SAP and 3rd party add-ons for SAP S/4HANA.

SAP Note	Description
2214409	SAP S/4HANA: Compatible Add-ons

There may be licensing implications regarding the upgrade of an add-on to a compatible SAP S/4HANA version of the add-on. Please check with SAP and the respective vendors of the 3<sup>rd</sup> party add-ons for potential license implications when converting to SAP S/4HANA.

#### LINK TO THE COMPLETE LIST OF ADD-ONS

https://launchpad.support.sap.com/#/readiness/TransactionSet('8987490000003082')/ObjectPage/section/a ddon





# 2.2 Active Business Functions

### **O**VERVIEW BY **S**TATUS

Status	Number of Business Function
Compatible	3

### BUSINESS FUNCITONS ARE NOT (YET) SUPPORTED FOR SAP S/4HANA

There are no incompatible business functions.

The following SAP Notes contain more information on Business Functions and SAP S/4HANA:

SAP Note	Description
2240359	SAP S/4HANA: Always-Off Business Functions
2240360	SAP S/4HANA: Always-On Business Functions
2333141	SAP S/4HANA 1610: Restriction Note
2491467	SAP S/4HANA 1709: Restriction Note

#### LINK TO THE COMPLETE LIST OF ACTIVE BUSINESS FUNCTIONS

 $\frac{\text{https://launchpad.support.sap.com/\#/readiness/TransactionSet('8987490000003082')/ObjectPage/section/businessfunction}{usinessfunction}$ 

# 2.3 Recommended Additional Checks

Please note that in addition to the checks above provided by SAP Readiness Check for SAP S/4HANA, additional restrictions and landscape requirements may be relevant for your system.

Please read the following SAP Notes carefully:

SAP Note	Description
2500467	SAP S/4HANA OP1709, Globalization & Country Versions: Release Information & Restriction Note
2495662	SAP S/4HANA 1709: Process Integration with SAP on-premise Solutions
2251604	Version Interoperability between SAP S/4HANA On Premise Edition and SAP NetWeaver Systems





# 3 Required Solution Adjustments for a System Conversion to SAP S/4HANA

# 3.1 SAP S/4HANA Simplification Items

A comprehensive overview of all simplifications for SAP S/4HANA 1709 compared to the SAP Business Suite products – that is, all mandatory solution adjustments in a system conversion project – is captured in the Simplification List for SAP S/4HANA at <a href="https://help.sap.com/viewer/p/SAP">https://help.sap.com/viewer/p/SAP</a> S4HANA ON-PREMISE.

This section of the SAP Readiness Check displays those simplification items (out of the overall list of more than 470 items) that are relevant for your specific SAP ERP 6.x system installation. The identification mainly relies on table contents and used transactions. For accurate results, we recommended that you run the SAP Readiness Check for SAP S/4HANA on an SAP ERP 6.x production system with at least a four week-long transaction history.

#### GENERAL STATISTICS

Status	Number of Objects
Overall number of Simplification Items	508
Check performed; item is not relevant. No follow-up activity necessary.	422
Check performed; item is relevant (excludes "non-strategic items"). Check	56
business impact note.	
Relevance cannot be automatically determined. (excludes "non-strategic	10
items"). Check business impact note.	
Check performed, "non-strategic" item is relevant. Check business impact	17
note.	
Relevance for "non-strategic" item cannot be automatically determined.	3
Check business impact note.	

## 3.1.1 Relevant Simplification Items

The following table lists simplification items that have been checked and are immediately relevant:

#### RELEVANT SIMPLIFICATION ITEMS

Application Area	Title	Category	SAP Note Number	Relevance
Cross Topics  Cross Topics	S4TWL - BI Extractors in SAP S/4HANA SI18: CT_BW_EXTRACTORS  S4TWL - JOB SCHEDULING SI8:CROSS BC CCM-BTC	Functionality unavailable (equivalent exists)  Change of existing	<u>2500202</u> <u>2318468</u>	Item is relevant. DB table 'ROOSOURCE' based check. Relevant criteria is '>0 ' and number found is 1. Item is relevant. DB table 'CVERS' based check.
	SIO.CNUSS_BC_CCIVI-BTC	functionality		Relevant criteria is '>0 ' and number found is 1 .
Financials - Asset Accounting	S4TWL - ASSET ACCOUNTING SI2_FIN_AA	Change of existing functionality	2270388	Item is relevant. DB table 'ANEK' based check. Relevant criteria is '>1 ' and number found is 2.





Application Area	Title	Category	SAP Note Number	Relevance
Financials - Asset Accounting	S4TWL - DATA STRUCTURE CHANGES IN ASSET ACCOUNTING SI1: FIN_AA	Change of existing functionality	2270387	Item is relevant. DB table 'ANEK' based check. Relevant criteria is '>1 ' and number found is 2 .
Financials - Controlling	S4TWL - COST ELEMENTS SI7: FIN_CO	Functionality unavailable (equivalent exists)	2270419	Item is relevant. DB table 'CSKA' based check. Relevant criteria is '>1 ' and number found is 2 .
Financials - Controlling	S4TWL - Profitability Analysis SI9: FIN_CO	Change of existing functionality	2349278	Item is relevant. DB table 'TKA00' based check. Relevant criteria is '>0 ' and number found is 1 .
Financials - Controlling	S4TWL - Summarization Hierarchies in Controlling SI11: FIN_CO	Change of existing functionality	2349282	Item is relevant. DB table 'TKKR1' based check. Relevant criteria is '>0 ' and number found is 1 .
Financials - Controlling	S4TWL - TECHNICAL CHANGES IN CONTROLLING SI1: FIN_CO	Change of existing functionality	2270404	Item is relevant. DB table 'COEP' based check. Relevant criteria is '>100 ' and number found is 101 .
Financials - General	S4TWL - DATA MODEL CHANGES IN FIN SI1_FIN_General	Change of existing functionality	2270333	Item is relevant. DB table 'BSEG' based check. Relevant criteria is '>100 ' and number found is 101 .
Financials - General	S4TWL - REPLACED TRANSACTION CODES AND PROGRAMS IN FIN SI2_FIN_General	Functionality unavailable (equivalent exists)	2270335	Item is relevant. DB table 'COEP' based check. Relevant criteria is '>0 ' and number found is 1 .
Financials - General Ledger	S4TWL - Currencies in Universal Journal SI6_FIN_GL	Change of existing functionality	2344012	Item is relevant. DB table 'BKPF' based check. Relevant criteria is '>1 ' and number found is 2 .
Financials - General Ledger	S4TWL - GENERAL LEDGER SI1_FIN_GL	Change of existing functionality	2270339	Item is relevant. DB table 'BSEG' based check. Relevant criteria is '>0 ' and number found is 1 .
Financials - International Trade	S4TWL - Determination of default values in Intrastat reporting SI3: FIN_SLL_ISR_DV	Change of existing functionality	2468294	Item is relevant. DB table 'T605Z' based check. Relevant criteria is '>0 ' and number found is 1 .





Application Area	Title	Category	SAP Note Number	Relevance
Financials - Miscellaneous	S4TWL - Conversion to S/4HANA Material Ledger and Actual Costing SI6: FIN_MISC_ML	Change of existing functionality	2352383	Item is relevant. DB table 'T001K' based check. Relevant criteria is '>=1 ' and number found is 2.
Financials - Miscellaneous	S4TWL - Credit Management SI1: FIN_MISC_CR	Functionality unavailable (equivalent exists)	2270544	Item is relevant. DB table 'T014' based check. Relevant criteria is '>0 ' and number found is 1 .
Financials - Miscellaneous	S4TWL - SAP Data Aging for SAP S/4HANA Finance SI4: FIN_MISC_ARCH	Change of existing functionality	2170722	Item is relevant. DB table 'BSEG' based check. Relevant criteria is '>1000000 ' and number found is 1000001.
Globalization Logistics	S4TWL - Globalization – Logistics SI1_GSLOG	Functionality unavailable (equivalent exists)	2270312	Item is relevant. DB table 'VARID' based check. Relevant criteria is '>0 ' and number found is 1 .
Human Resources	S4TWL - Java-Based ESS and MSS SI5: HR_JAVA_ESS_MSS	Functionality unavailable (equivalent exists)	2383879	Item is relevant. DB table 'HRP1000' based check. Relevant criteria is '>0 ' and number found is 1 .
Industry DIMP - High Tech	S4TWL - Contract Management Enhancements SI3_IS_DIMP_HT	Functionality unavailable (no equivalent)	2270850	Item is relevant. DB table 'TVAKZ' based check. Relevant criteria is '>0 ' and number found is 1 .
Industry Public Sector	S4TWL - Former Budgeting System (FBS) in Funds Management SI1: Public Sector_PSM-FM - FBS	Functionality unavailable (equivalent exists)	2270413	Item is relevant. Business function EA- PS is active
Industry Public Sector	S4TWL - Functionality Average Daily Balance- based Distribution SI9: Public Sector PSM-FA	Functionality unavailable (no equivalent)	2270466	Item is relevant. Business function EA- PS is active
Industry Public Sector	S4TWL - Specific fields on Business Partner SI4: Public Sector_PSM-FG - BP	Change of existing functionality	2270420	Item is relevant. Business function EA- PS is active
Logistics - ATP	S4TWL - New advanced ATP in SAP S/4HANA - Table VBBS SI1: Logistics_ATP	Functionality unavailable (equivalent exists)	2267745	Item is relevant. DB table 'VBBS' based check. Relevant criteria is '>0 ' and number found is 1.





<b>Application Area</b>	Title	Category	SAP Note Number	Relevance
Logistics - Environment, Health & Safety (EHS)	S4TWL - Specification Workbench Adjustments SI14: Logistics_PSS	Change of existing functionality	2439345	Item is relevant. DB table 'TCGENV' based check. Relevant criteria is '>0 ' and number found is 1.
Logistics - MM-IM	S4TWL - AVAILABILITY OF TRANSACTIONS IN MM-IM S12: Logistics_MM-IM	Functionality unavailable (equivalent exists)	2210569	Item is relevant. Transaction ' MB11 '. Relevant criteria is '>0 ' and number found is 529 .
Logistics - MM-IM	S4TWL - DATA MODEL IN INVENTORY MANAGEMENT (MM-IM) SI1: Logistics_MM-IM	Change of existing functionality	2206980	Item is relevant. DB table 'MSEG' based check. Relevant criteria is '>0 ' and number found is 1 .
Logistics - MM-IM	S4TWL - Goods movements without exclusive locking by material valuation SI7: Logistics MM-IM	Change of existing functionality	2338387	Item is relevant. DB table 'MBEW' based check. Relevant criteria is '>0 ' and number found is 1 .
Logistics - MM-IM	S4TWL - Material Ledger Obligatory for Material Valuation SI3: Logistics_MM-IM	Change of existing functionality	2267834	Item is relevant. DB table 'T001K' based check. Relevant criteria is '>0 ' and number found is 1 .
Logistics - MM-IM	S4TWL - Material Valuation - Statistical moving average price SI4: Logistics_MM-IM	Functionality unavailable (no equivalent)	2267835	Item is relevant. DB table 'MBEW' based check. Relevant criteria is '>0 ' and number found is 1 .
Logistics - PLM	S4TWL - Classification SI14: Logistics - PLM	Change of existing functionality	2267878	Item is relevant. Transaction ' CT04 '. Relevant criteria is '>0 ' and number found is 131 .
Logistics - PLM	S4TWL - Engineering Client Viewer (ECL) SI8: Logistics - PLM	Functionality unavailable (no equivalent)	2267864	Item is relevant. Transaction ' CV01N '. Relevant criteria is '>0 ' and number found is 102.
Logistics - PLM	S4TWL - Variant Configuration SI13: Logistics - PLM	Change of existing functionality	2267873	Item is relevant. DB table 'CUKB' based check. Relevant criteria is '>0 ' and number found is 1 .
Logistics - PM	S4TWL - Enterprise Search in EAM SI8: Logistics	Change of existing functionality	2270123	Item is relevant. DB table 'EQUI' based check. Relevant criteria is '>0 ' and number found is 1 .





<b>Application Area</b>	Title	Category	SAP Note Number	Relevance
Logistics - PM	S4TWL - SAP Graphics in EAM Transactions SI9: Logistics_PM	Change of existing functionality	2482659	Item is relevant. Transaction ' IW29 '. Relevant criteria is '>0 ' and number found is 68
Logistics - PP	S4TWL - PP-MRP - Subcontracting SI1: Logistics_PP-MRP	Change of existing functionality	2268044	Item is relevant. DB table 'RESB' based check. Relevant criteria is '>1 ' and number found is 2 .
Logistics - PP	S4TWL - Planning File SI12: Logistics_PP	Change of existing functionality	2268088	Item is relevant. Transaction ' MD01 '. Relevant criteria is '>0 ' and number found is 8.
Logistics - PP	S4TWL - Planning Horizon SI35: Logistics_PP	Functionality unavailable (no equivalent)	2270241	Item is relevant. Transaction ' MD01 '. Relevant criteria is '>5 ' and number found is 8.
Logistics - PP	S4TWL - Simplified Sourcing SI7: Logistics_PP	Change of existing functionality	2268069	Item is relevant. Transaction ' MD01 '. Relevant criteria is '>0 ' and number found is 8 .
Logistics - PP	S4TWL - Storage Location MRP SI2: Logistics_PP-MRP	Functionality unavailable (equivalent exists)	2268045	Item is relevant. Transaction ' MD01 '. Relevant criteria is '>0 ' and number found is 8 .
Master Data	S4TWL - Batch Input for Customer Master/Supplier Master SI25: MasterData_BP	Functionality unavailable (equivalent exists)	2492904	Item is relevant. DB table 'KNA1' based check. Relevant criteria is '>0 ' and number found is 1 .
Master Data	S4TWL - Business Partner Approach SI2: MasterData_BP	Change of existing functionality	2265093	Item is relevant. DB table 'LFA1' based check. Relevant criteria is '>0 ' and number found is 1.
Master Data	S4TWL - Foreign Trade fields in Material Master SI6:MasterData_PM	Functionality unavailable (equivalent exists)	2267225	Item is relevant. DB table 'MARC' based check. Relevant criteria is '>0 ' and number found is 1.
Master Data	S4TWL - Material Number Field Length Extension SI4: MasterData_PM	Change of existing functionality	2267140	Item is relevant. DB table 'MARA' based check. Relevant criteria is '>0 ' and number found is 1.
Master Data	S4TWL - Material Type SERV SI8:MasterData_PM	Change of existing functionality	2267247	Item is relevant. DB table 'MARA' based check. Relevant criteria is '>0 ' and number found is 1.





Application Area	Title	Category	SAP Note Number	Relevance
Master Data	S4TWL - Simplification of copy/reference handling SI5: MasterData_PM	Change of existing functionality	2330063	Item is relevant. DB table 'MARA' based check. Relevant criteria is '>0 ' and number found is 1.
Master Data	S4TWL - Simplified Product Master Tables Related to OMSR Transaction	Change of existing functionality	2267138	Item is relevant. DB table 'MARA' based check. Relevant criteria is '>0 ' and number found is 1.
Procurement	S4TWL - Authority Concept for Supplier Invoice SI14:	Change of existing functionality	2271189	Item is relevant. DB table 'RBKP' based check. Relevant criteria is '>0 ' and number found is 1 .
Procurement	S4TWL - Classic MM-PUR GUI Transactions replacement SI11: PROC_MM_DYN	Functionality unavailable (equivalent exists)	2267449	Item is relevant. Transaction ' ME21 '. Relevant criteria is '>0 ' and number found is
Procurement	S4TWL - Output Management Adoption in Purchase Order SI9: PROC_MM_OUTPUT	Change of existing functionality	2267444	Item is relevant. DB table 'NAST' based check. Relevant criteria is '>0 ' and number found is 1.
Procurement	S4TWL - Pricing Data Model Simplification SI8: PROC_MM_PRICING	Change of existing functionality	2267442	Item is relevant. DB table 'KONV' based check. Relevant criteria is '>0 ' and number found is 1 .
Sales & Distribution	S4TWL - Billing Document Output Management SI14: SD_BILLING_OM	Functionality unavailable (equivalent exists)	2267376	Item is relevant. DB table 'VBRK' based check. Relevant criteria is '>0 ' and number found is 1 .
Sales & Distribution	S4TWL - Credit Management SI4: SD_CM	Functionality unavailable (equivalent exists)	2270544	Item is relevant. DB table 'T014' based check. Relevant criteria is '>0 ' and number found is 1 .
Sales & Distribution	S4TWL - Data Model Changes in SD Pricing SI2: SD_PRIC	Change of existing functionality	2267308	Item is relevant. DB table 'NACH' based check. Relevant criteria is '>0 ' and number found is 1 .
Sales & Distribution	S4TWL - Foreign Trade SI3: SD_FT	Functionality unavailable (equivalent exists)	2267310	Item is relevant. DB table 'AKKP' based check. Relevant criteria is '>0 ' and number found is 1 .





Application Area	Title	Category	SAP Note Number	Relevance
Sales & Distribution	S4TWL - SD Simplified Data Models SI1: SD_GENERAL	Change of existing functionality	<u>2267306</u>	Item is relevant. DB table 'VBUK' based check. Relevant criteria is '>0 ' and number found is 1 .
Sales & Distribution	S4TWL -Miscellaneous minor functionalities in SD Area SI16: SD_Miscellaneous minor deprecations in SD Area	Functionality unavailable (equivalent exists)	2267395	Item is relevant. DB table 'LIKP' based check. Relevant criteria is '>0 ' and number found is 1 .

# 3.1.2 Simplification Items with Relevance to be Checked

The following simplification items cannot be checked automatically but may be immediately relevant for your SAP S/4HANA system conversion. Please check the relevance of items from used application areas by the provided Business Impact SAP Notes:

#### SIMPLIFICATION ITEMS WITH RELEVANCE TO BE CHECKED

Application Area	Title	Category	SAP Note Number	Relevance
Cross Topics	S4TWL - Changed Interfaces SI15: CT Integration	Change of existing functionality	2259818	Relevance cannot be determined. Run manual check.
Cross Topics	S4TWL - FIORI APPLICATIONS FOR SUITE ON HANA ON- PREMISE SI10: CT FIORI	Change of existing functionality	2288828	Relevance cannot be determined. Run manual check.
Customer Service	S4TWL - PH_Sample iView SI18: Logistics - PLM	Functionality unavailable (no equivalent)	2271201	Relevance cannot be determined. Run manual check.
Globalization Financials	S4TWL - Globalization – Financials SI1_GSFIN	Functionality unavailable (equivalent exists)	2270311	Relevance cannot be determined. Run manual check.
Logistics - PLM	S4TWL - Enterprise Search in SAP Product Lifecycle Management (SAP PLM) SI1: Logistics_PLM	Change of existing functionality	2267836	Relevance cannot be determined. Run manual check.
Master Data	S4TWL - MRP fields in Material Master SI7:MasterData_PM	Functionality unavailable (no equivalent)	2267246	CLS4SIC_LO_MD_MM_ MRP not found; check the implementation status of SAP Note 0002568861





<b>Application Area</b>	Title	Category	SAP Note	Relevance
			Number	
Procurement	S4TWL - MDM Catalog	Functionality	2271184	Relevance cannot be
	SI7: PROC MDM	unavailable		determined. Run manual
	_	(equivalent		check.
		exists)		
Sales &	S4TWL - Business Role	Functionality	2271150	Relevance cannot be
Distribution	Internal Sales	unavailable		determined. Run manual
	Representative	(equivalent		check.
	SI10: SD ROLES	exists)		
Sales &	S4TWL - Optimization of SD	Change of	2267344	Relevance cannot be
Distribution	Rebate Processing for TPM	existing		determined. Run manual
	Customers	functionality		check.
	SI6: SD REBATES			
Sales &	S4TWL - Webshops by	Functionality	2271161	Relevance cannot be
Distribution	Internet Sales or Web	unavailable		determined. Run manual
	Channel Experience	(equivalent		check.
	Management	exists)		
	SI11: SD IS			

# **3.1.3** Relevant Non-Strategic Simplification Items

The following table lists non-strategic simplification items that have been checked and are relevant for your SAP S/4HANA system conversion:

### RELEVANT NON-STRATEGIC SIMPLIFICATION ITEMS

Application Area	Title	Category	SAP Note Number	Relevance
Cross Topics	S4TWL - LEGACY SYSTEM MIGRATION WORKBENCH SI9: CT_LSMW	Non-strategic- function (equivalent exists)	2287723	Item is relevant. DB table 'CVERS' based check. Relevant criteria is '>0 ' and number found is 1 .
Cross Topics	S4TWL - OUTPUT MANAGEMENT SI4: CT_OM	Non-strategic- function (equivalent exists)	2470711	Item is relevant. DB table 'CVERS' based check. Relevant criteria is '>0 ' and number found is 1 .
Financials - Controlling	S4TWL - PROFIT AND LOSS PLANNING AND PROFIT CENTER PLANNING S12 FIN CO	Non-strategic- function (equivalent exists)	2270407	Item is relevant. DB table 'COSP' based check. Relevant criteria is '>0 ' and number found is 1 .
Human Resources	S4TWL - General HCM Approach within SAP S/4HANA SI1: HR_OP	Non-strategic- function (equivalent exists)	2273108	Item is relevant. DB table 'HRP1000' based check. Relevant criteria is '>0 ' and number found is 1 .





Application Area	Title	Category	SAP Note Number	Relevance
Logistics - PLM	S4TWL - Easy Document Management (Easy DMS) S19: Logistics - PLM	Non-strategic- function (no equivalent yet)	2267866	Item is relevant. Transaction ' CV01N '. Relevant criteria is '>0 ' and number found is 102 .
Logistics - PLM	S4TWL - Engineering Workbench SI21: Logistics - PLM	Non-strategic- function (equivalent exists)	2267943	Item is relevant. Transaction ' CEWB'. Relevant criteria is '>0 ' and number found is 1286.
Logistics - PM	S4TWL - Batch Input for Enterprise Asset Management (EAM) SI5: Logistics_PM	Non-strategic- function (no equivalent yet)	2270107	Item is relevant. DB table 'EQUI' based check. Relevant criteria is '>0 ' and number found is 1 .
Logistics - PM	S4TWL - Change Order and Operations IW37,IW49 SI6: Logistics_PM	Non-strategic- function (equivalent exists)	2270108	Item is relevant. DB table 'AFIH' based check. Relevant criteria is '>0 ' and number found is 1 .
Logistics - PM	S4TWL - Download Data in MS Access out of List SI2: Logistics_PM	Non-strategic- function (equivalent exists)	2270076	Item is relevant. DB table 'EQUI' based check. Relevant criteria is '>0 ' and number found is 1 .
Logistics - PM	S4TWL - LIS in EAM SI1: Logistics_PM	Non-strategic- function (no equivalent yet)	2267463	Item is relevant. DB table 'EQUI' based check. Relevant criteria is '>0 ' and number found is 1 .
Logistics - PM	S4TWL - Scheduling of Maintenance Plan SI3: Logistics_PM	Non-strategic- function (no equivalent yet)	2270078	Item is relevant. DB table 'MPLA' based check. Relevant criteria is '>0 ' and number found is 1 .
Logistics - PP	S4TWL - Batch History SI36: Logistics_PP	Non-strategic- function (equivalent exists)	2270242	Item is relevant. DB table 'MCHA' based check. Relevant criteria is '>0 ' and number found is 1.
Logistics - PP	S4TWL - Electronic Records SI21: Logistics_PP	Non-strategic- function (equivalent exists)	2268131	Item is relevant. Transaction ' AUT10 '. Relevant criteria is '>0 ' and number found is 63
Logistics - PP	S4TWL - MRP in HANA SI11: Logistics_PP	Non-strategic- function (equivalent exists)	2268085	Item is relevant. Transaction ' MD01'. Relevant criteria is '>1' and number found is 8.





Application Area	Title	Category	SAP Note Number	Relevance
Logistics - WM	S4TWL - Warehouse Management (WM) SI1: Logistics_WM	Non-strategic- function (equivalent exists)	2270211	Item is relevant. DB table 'LTAP' based check. Relevant criteria is '>0 ' and number found is 1 .
Procurement	S4TWL - RFQ Simplified Transaction SI18: PROC_RFQ Simplified Transaction	Non-strategic- function (no equivalent yet)	2332710	Item is relevant. DB table 'EKKO' based check. Relevant criteria is '>20 ' and number found is 21 .
Procurement	S4TWL - Vendor evaluation based on LIS SI3: PROC_LIS	Non-strategic- function (equivalent exists)	2267414	Item is relevant. DB table 'S013' based check. Relevant criteria is '>0 ' and number found is 1 .

## 3.1.4 Non-Strategic Simplification Items with Relevance to be Checked

The following non-strategic simplification items cannot be checked automatically. Please check the relevance of items from used application areas by the provided Business Impact SAP Notes:

#### NON-STRATEGIC SIMPLIFICATION ITEMS WITH RELEVANCE TO BE CHECKED

Application Area	Title	Category	SAP Note Number	Relevance
Cross Topics	S4TWL - Custom Fields SI13: CT_Custom-Fields	Non-strategic- function (no equivalent yet)	2320132	Relevance cannot be determined. Run manual check.
Cross Topics	S4TWL - Side Panel functionality in SAP S/4HANA (on-premise) SI14: CT SIDE PANELS	Non-strategic- function (no equivalent yet)	2340424	Relevance cannot be determined. Run manual check.
Sales & Distribution	S4TWL - Simplification in SD Analytics SI7: SD_ANA	Non-strategic- function (equivalent exists)	2267348	Relevance cannot be determined. Run manual check.

## LINK TO THE LIST OF RELEVANT SIMPLIFICATION ITEMS

https://launchpad.support.sap.com/#/readiness/TransactionSet('898749000003082')/ObjectPage/section/si mplification

# 3.2 Recommended Additional Checks

SAP provides customers a limited usage right to run certain classic SAP ERP solutions on SAP S/4HANA installations. The usage right for these solutions currently expires on December 31, 2025. Please

read the following SAP Note carefully:

SAP Note	Description
2269324	Compatibility Scope Matrix for SAP S/4HANA on-premise





# 4 Required Custom Code Adjustments for a System Conversion to SAP S/4HANA

Custom Code checks have been performed in system TFP.

# 4.1 Custom Code

In general, the following changes and respective custom code adjustments are required in a system conversion project to SAP S/4HANA:

- Adjusting the custom code to the simplified data model and simplification list in SAP S/4HANA
- Re-applying modification using SPDD, SPAU due to software update
- Mandatory changes for SAP HANA if system is not on SAP HANA already
- Making the custom code Unicode compliant if the system is not yet on Unicode
- Optimizing performance of custom code

The custom code part of SAP Readiness Check for SAP S/4HANA focuses on identifying areas of mandatory changes, which are required due to the simplified application architecture of SAP S/4HANA (first point in the list above). The analysis does not contain a list of adaptations necessary to support the other required changes mentioned above.

The following customer namespaces are considered by the custom code checks in SAP Readiness Check for SAP S/4HANA:

#### **ANALYZED CUSTOMER NAMESPACES**

#### **Customer Namespaces**

/OCUST/

#### **CUSTOM CODE OVERVIEW**

Item	Number of Objects	Remark
Total SAP Notes	220	
Relevant SAP Notes	36	
Non-Relevant SAP Notes	184	
Total Custom Code Objects	11447	
Total Modifications	336	The number represent the technical modification stored in the DB table SMODILOG (= log)

## SIMPLIFICATION ITEMS AFFECTING CUSTOM CODE

SAP Note Number	Custom Code Topic	Estimated Impact
144081	Replacing MR01/functions of MR1M (Release 4.6)	Low
1804812	MB transactions: Limited maintenance/decommissioning	Low
<u>1976487</u>	Information about adjusting customer-specific programs to the simplified data model in SAP Simple Finance	Medium
<u>2198031</u>	S4TC EA-GLTRADE - DB Field Changes within Global Trade Management	Low
<u>2198035</u>	S4TC EA-GLTRADE - Checks for Condition Contract DB Key Field Changes	Low

<sup>\* /</sup>OCUST/ represents Y\* and Z\* namespaces





SAP Note Number	Custom Code Topic	Estimated Impact	
2198647	S/4 HANA: Data Model Changes in SD	Medium	
2206980	Material Inventory Managment: change of	High	
	data model in S/4HANA		
2209696	ATP Transition to S/4	Low	
2214585	Sales support not available	Low	
2215424	Material Number Field Length Extension -	Medium	
	General Information		
2217124	S/4 HANA: Credit Management Changes in	Low	
	SD		
2220005	S/4 HANA: Data Model Changes in Pricing and	Medium	
	Condition Technique		
2223144	S/4 HANA - Foreign Trade in SD/MM	Low	
<u>2226129</u>	SAP S/4 HANA Simplification Item: Change of	Low	
	Data Structures in Budget Control System		
<u>2226131</u>	SAP S/4 HANA Simplification Item: Public	Low	
	Sector specific fields in Business Partner		
2227532	SAP S/4HANA Simplification Item:	Low	
	Logistics_PP-MRP - Subcontracting	-	
<u>2227579</u>	SAP S/4HANA Simplification Item: Logistics_PP-	Low	
200005	MRP - Storage Location MRP	+.	
<u>2228056</u>	SAP S/4HANA - Simplification Item SI9:	Low	
222220	SD_ODP - Operational Data Provisioning	Low	
2228220	SAP S/4HANA Simplification: DIMP Automotive - Cross-system transit between two plants	Low	
	- cross-system transit between two plants		
2268085	S4TWL - MRP in HANA	Low	
2270335	S4TWL - Replaced Transaction Codes and	Low	
	Programs in FIN		
2270387	S4TWL - Asset Accounting: Changes to Data	Low	
	Structure		
2296016	SAP S/4 HANA custom code adaption -	Low	
	removal of orphaned objects		
2320132	S4TWL - Custom Fields	High	
2337368	Inventory Valuation (part of Materials	Medium	
	Management - Inventory Management) :		
	Change of data model in S/4HANA 1610		
2365665	S4TWL- Retail Season Conversion	Low	
<u>2368680</u>	S4TWL - Article Hierarchy via transactions	Low	
	MATGRP*		
2368870	S4TWL - Retail Labeling	Low	
<u>2371631</u>	S4TWL - Retail Additionals	Low	
<u>2378796</u>	Material classification: Change in data model in	Medium	
	SAP S/4HANA 1610	<del> </del>	
<u>2389136</u>	sFIN Data Migration for G/L Accounts and	Low	
	Cost Elements & ALE - Technical Information	<u> </u>	
2431747	General Ledger: Incompatible changes in	High	
2420006	S/4HANA compared to classic ERP releases	1	
<u>2438006</u>	Material Number Field Length Extension:	Low	
	Code Adaptions for compatibly enhanced local function modules		
L	Turiction modules		





We highly recommend you to review the below link to complete custom Code list, after clicking on the line item it also lists the packages to be reviewed against the Custom code Topic.

#### LINK TO THE COMPLETE LIST OF CUSTOM CODE

 $\frac{\text{https://launchpad.support.sap.com/\#/readiness/TransactionSet('8987490000003082')/ObjectPage/section/customcode}{\text{stomcode}}$ 

ProAcc Link for the Baseline Custom Code Analyzer Report:

http://123.176.34.15:4041/ProAccQA/

## 4.2 Recommended Additional Checks

The results of SAP Readiness Check for SAP S/4HANA provide first insights into areas of custom code that can be affected by the system conversion to SAP S/4HANA.

To get a proper evaluation of the mandatory custom code changes necessary for the conversion to SAP S/4HANA, we recommend to use the ABAP Test Cockpit / SAP Code Inspector. This check is not included in SAP Readiness Check for SAP S/4HANA.

We recommend to run the following checks:

- Run ABAP Test Cockpit / SAP Code Inspector check variant FUNCTIONAL\_DB to determine the impact of the change of the database to SAP HANA – if the system is not yet on SAP HANA.
- Run ABAP Test Cockpit / SAP Code Inspector check variant S4HANA\_READINESS on an SAP NW 7.51
  system to determine the impact of simplifications in S/4HANA. The SAP NetWeaver system can be a
  different system with remote connection to the respective SAP ERP system.

For more information see:

Source of Information	Description
Blog on the "Custom code adaption process"	For detailed information on the overall topic, recommended tools and procedures have a look at the blog on the "Custom code adaption process".
SAP Note <u>1912445</u>	ABAP custom code migration for SAP HANA - recommendations and Code Inspector variants for SAP HANA migration
Best Practice Guide	Best Practice Guide - Considerations for Custom ABAP Code During a Migration to SAP HANA
SAP Documentation on Custom Code on help.sap.com	SAP documentation describing the tools that help you with the migration of custom code – for example, if you want to migrate your current database to SAP HANA or convert your SAP Business Suite system to SAP S/4HANA, on-premise edition.

In addition, it is helpful to get more transparency on used custom code vs. unused custom code before the system conversion to SAP S/4HANA in order to focus the adjustment efforts on the used custom code. For details on general custom code lifecycle management, refer to following information:





Link	Topic
https://blogs.sap.com/2014/12/10/usa ge-procedure-logging-upl/	Usage and Procedure Logging (UPL)
https://scn.sap.com/docs/DOC-59247	Custom Code Lifecycle Management in Solution Manager
http://scn.sap.com/docs/DOC-60525	Decommissioning with Custom Code Lifecycle Management in Solution Manager
http://scn.sap.com/docs/DOC-70271	Modification Analysis
https://www.sap.com/community/topi c/abap-testing-and-analysis.html	ABAP Testing and Analysis Community
https://wiki.scn.sap.com/wiki/display/ SM/SAP+Solution+Manager+WIKI+- +Custom+Code+Management	SAP Solution Manager WIKI – Custom Code Management
https://blogs.sap.com/2017/04/06/ab ap-call-monitor-scmon-analyze- usage- of-your-code/	ABAP Call Monitor (SCMON) – Analyze Usage of your code





# 5 Required SAP HANA Hardware Size

# 5.1 SAP HANA Sizing

The SAP HANA sizing results are based on running the "Business Suite on HANA and S/4HANA sizing report" (see SAP Note 1872170).

The sizing report calculates the total memory requirements for the system after the system conversion to SAP S/4HANA. The requirements are based on the size of the tables in the source system and the compression rate of the source system.

With the result of the sizing report, you have an initial indication of the system's starting size. This sizing procedure does not consider yet any additional growth caused by additional roll-outs, deployments or business growth. Respective factors need to be added.

The information of the sizing report also helps you to identify the tables that can be slimmed down by housekeeping and archiving activities.

The SAP Note 1872170 contains an FAQ document that helps to interpret the results below.

#### GENERAL INFORMATION

GENERAL INFORMATION		
General Indicators	Values	
Type of Analysed Database	ORACLE	
Used Size on Disk	3156 GB	
Number of Tables Successfully Analyzed	89187	
Number of Tables with Errors	0	
Version of Report /SDF/HDB_SIZING	73	
SAP Note for SAP HANA Sizing	<u>1872170</u>	

<b>Estimated Memory Requirement</b>	Values in GB
Column Store Data	464
+ Row Store Data	3
+ Changes in Financials Tables and Columns	38
+ Changes in Logistics Tables and Columns	24
= Anticipated Memory Requirement for Initial Data	528
+ Cached Hybrid LOB(20%)	5
+ Workspace	528
+ Fixed Size for Code, Stack and Other Services	50
= Anticipated Initial Memory Requirement for SAP HANA	1112

### INITIAL TARGET SIZE

Estimated Disk Sizing	Values in GB	
Column Store Data	464	
+ Row Store Data	3	
+ Changes in Financials Tables and Columns	38	
+ Changes in Logistics Tables and Columns	24	
+ Hybrid LOBs	24	
+ Space Required for Merges	95	
+ Metadata and Statistics	25	
= Initial Net Data Size on Disk	673	





## AFTER CLEANUP

<b>Estimated Memory Requirement</b>	Values in GB
Anticipated Memory Requirement for Initial Data	528
- Obsolete Financial Data	142
- Obsolete Logistics Data	19
- Data Aged on Disk	17
= Anticipated Memory Requirement for Data After Cleanup	350
+ Cached Hybrid LOB(20%)	5
+ Cached Data from Aged Partitions(20%)	3
+ Workspace	350
+ Fixed Size for Code, Stack and Other Services	50
= Anticipated Total Memory Requirement for SAP HANA After	759
Cleanup	

Estimated Disk Sizing	Values in GB
Anticipated Memory Requirement for Data After Cleanup	350
+ Data Aged on Disk	17
+ Hybrid LOBs	24
+ Space Required for Merges	37
+ Metadata and Statistics	25
= Initial Net Data Size on Disk After Cleanup	454

# CALCULATION DETAILS

Changes in Financials Data	Values in GB
New Financial Tables	32
+ New Columns in Existing Financial Tables	6
= Changes in Financials Tables and Columns	38
Obsolete Tables to Unload	48
+ Tables Moved to Historical Partitions	30
+ Deletion of Obsolete CO Documents	16
= Obsolete Financial Data	142

Changes in Logistics Data	Values in GB
New VBFA Table	1
- Old VBFA Table	2
= Changes in Table VBFA	<1
+ New Logistics Tables	25
= Changes in Logistics Tables and Columns	24
Obsolete Logistics Tables	19
= Obsolete Logistics Data	19

## **UPGRADE SHADOW INSTANCES**

Estimated Requirement for Upgrade Shadow Instances	Values in GB
Estimated Size of Tables Cloned to Shadow Instances	17
+ Estimated Corresponding Workspace Requirement	17
= Total Memory Requirement for Shadow Instances	34
Total Disk Requirement for Shadow Instances	33





## **10** LARGEST TABLES IN COLUMN STORE

Table Name	Data Size in GB	Data Size After Clean-Up in	Estimated Record Count	
		GB		
GLPCA	49	0	513.057.975	
FAGLFLEXA	39	0	517.634.961	
ACCTCR	35	35	942.281.461	
ACCTIT	35	35	471.913.262	
BSEG	31	31	502.905.095	
ACDOCA	31	31	762.945.014	
BSIS	27	0	481.160.467	
MATDOC	20	20	237.344.187	
ZDAILY_STK	20	20	565.226.783	
COEP	19	4	307.133.128	

## **5** LARGEST TABLES IN ROW STORE

Table Name	Data Size in GB	Data Size After Clean-Up in GB	Estimated Record Count
ORA_SQLC_DATA	1	1	5.422.041
LTEX	1	1	201.318
ARFCSDATA	<1	<1	117.122
DDFTX	<1	<1	822.998
POWL_RESULT	<1	<1	49.139

## LINK TO THE COMPLETE LIST OF DATABASE TABLES

 $\underline{https://launchpad.support.sap.com/\#/readiness/TransactionSet('8987490000003082')/details/hanasizingDet\_ail}$ 

# **5.2 Additional Information**

The following documents provide additional information and context on sizing an SAP system.

Topic	Link
Sizing Approaches for SAP HANA - Lessons	https://service.sap.com/~sapidb/011000358700000050
Learned	632013E
Proactive Performance and Capacity	https://service.sap.com/~sapidb/011000358700001231
Management - Best Practice	382011E





# 6 Additional Information for a System Conversion to SAP S/4HANA

# **6.1 Recommended SAP Fiori Applications for SAP S/4HANA**

SAP S/4HANA offers SAP Fiori applications as an alternative to SAP GUI transactions and reports. New applications in SAP S/4HANA are always built with the SAP Fiori user interface.

The following list includes the most relevant SAP Fiori applications, based on the transaction usage history in the evaluated system.

#### **10** MOST RELEVANT SAP FIORI APPS

Name	Role	Description	Relevance
Account Determination	General Ledger Accountant	In SAP S/4HANA, financial accounting (FI) journal entries are triggered by business transactions not only in financial areas, but also in other areas, for example, sales and distribution (SD), and material management (MM). To enable business transactions to trigger FI journal entry posting automatically, you can use this app to configure the system and identify the target accounts for automatic posting. This app provides you with all the settings that are needed for assigning accounts in the following areas: - Material Management (MM)You can make configurations for transactions in inventory management and invoice verification so FI journal entries posted automatically Sales and Distribution (SD)You can define how to post FI documents to G/L accounts from SD, by configuring account determination for transactions in revenue, reconciliation, cash, and payment cards Financial Accounting (FI)You can define G/L accounts to which you want the system to post exchange rate differences and retained earnings automatically. You can also reclassify the balance of A/P and A/R accounts according to their maturity and assign G/L accounts to bank accounts.	Relevance based on usage of transaction OBYC (C FI Table T030)
Activity Type (S/4HANA)	Controller, Cost Accountant - Overhead	This object page displays contextual information about the Activity Type business object. You can navigate to its related business objects and to related transactional apps, and you can access related transactions in ABAP back-end systems. This app is available for the role Controller.	Relevance based on usage of transaction KL03 (Display Activity Type)





Name	Role	Description	Relevance
Adjust Stock	Retail Store Associate	Adjust Stock allows you to check the quantity of products in the store inventory and adjust for discrepancies due to reasons such as damage or shrinkage.	Relevance based on usage of transaction MB03 (Display Material Document)
Analytical List Page for Technical Object Breakdown Analysis	Others, Maintenance Planner	With this app you can analyze the causes of a breakdown more closely and calculate the distribution of duration of the various breakdowns or repairs. You can also find out the cause behind a short or long breakdown period, or the period between two consecutive	Relevance based on usage of transaction MCI7 (PMIS: Breakdown Analysis)
Analyze Delivery Logs	Shipping Specialist	This feature helps you ensure timely and error-free shipment of goods to your customers. You can check the system messages that have been logged during the collective creation run of deliveries. If your attempt to create a delivery is unsuccessful, you can correct the issues that are mentioned in the log and then create a new delivery for the respective sales order using another app.	Relevance based on usage of transaction V_SA (Collective Proc. Analysis (Deliv.))
Analyze Outbound Delivery Logs	Shipping Specialist	With this app you can check the system messages that have been logged during the collective creation run of the outbound deliveries, either with or without success. In case of a failed delivery creation, it is up to you to correct the issues that are mentioned in the log and then try to create a delivery for that sales order again. For each delivery log, you can look up the messages that the system has logged during the creation run. These messages can be related to a sales order, an individual delivery item, or a delivery. You can also find out the numbers of the deliveries that the system has created. This app is available for the role shipping specialist.	Relevance based on usage of transaction V_SA (Collective Proc. Analysis (Deliv.))
Application Job Templates	Administrator	You can use this app to maintain Application Job Templates	Relevance based on usage of transaction SM36 (Schedule Background Job)
Application Jobs	Administrator	You can use this app to schedule and monitor application-related jobs. If you have manual activities that you often need to do at a specific time, the Application Jobs app can reduce your workload by running these tasks smoothly in the background. You can plan regular jobs which keeps you free to concentrate on other	Relevance based on usage of transaction SM36 (Schedule Background Job)





Name	Role	Description	Relevance
Asset Master Worklist	Asset Accountant	With this app you can display a worklist of fixed assets and quickly get an overview of the status of all assets in the list. As well as displaying a list according to specific criteria such as company code or asset class, you can quickly refine the list to show, for example, only incomplete assets, capitalized assets, or retired assets.	Relevance based on usage of transaction ASO2 (Change Asset Master Record)
Bank (S/4HANA)	Cash Manager	You can use this app to display an overview of the bank data, navigate to additional information relevant in your business context, such as information about related business partners, related master data, or related documents, as well as navigate to apps with additional functions, such as editing or	Relevance based on usage of transaction FI01 (Create Bank)

### LINK TO THE COMPLETE LIST OF RECOMMENDED SAP FIORI APPS

https://launchpad.support.sap.com/#/readiness/TransactionSet('898749000003082')/ObjectPage/section/fio\_riapp

For details on SAP Fiori for SAP S/4HANA, check out the following information:

Торіс	Link
The SAP Fiori apps reference library	https://fioriappslibrary.hana.ondemand.com/sap/fix/externalViewer/
SAP Fiori design guidelines	https://ux.wdf.sap.corp/fiori-design/
SAP Fiori demo video	https://www.youtube.com/watch?v=lo9HfoVkGVU&
SAP Fiori trial	https://www.sapfioritrial.com/





# **6.2 Business Process Analytics**

The result table below shows key figures for the business process improvement for SAP solutions. The figures represent transactional backlog such as open documents overdue for processing. Old backlog documents in the table below should be closed for system archiving. Otherwise, backlog documents are subject to migration and memory consumption in the new SAP S/4HANA environment. For more details, contact your SAP account executive and ask for more information on the service business process improvement for SAP solutions.

**BUSINESS PROCESS ANALYTICS KPI** 

KPI	Total	3-6	6 – 12	1-3	3 - 5	5 – 10	Older
		Months	Months	Years	Years	Years	Than 10
							Years
Inbound deliveries	499015	677	809	1369	158289	330084	0
overdue for GR		0.14%	0.16%	0.27%	31.72%	66.15%	0.00%
Open items FI-GL	13561754	750561	1041387	3962351	4892273	1636125	0
		5.53%	7.68%	29.22%	36.07%	12.06%	0.00%
Overdue open	199094	14577	10637	31781	27471	40520	28903
vendor items FI-AP		7.32%	5.34%	15.96%	13.80%	20.35%	14.52%
Purchase requisition	124126	5278	6423	18842	25131	9233	0
items open & overdue		4.25%	5.17%	15.18%	20.25%	7.44%	0.00%
Overdue open items	156142	19979	19317	23665	13907	12735	4532
FI-AR (customer items)		12.80%	12.37%	15.16%	8.91%	8.16%	2.90%
Purchase order items	60384	9528	5915	10618	5481	1839	0
open & overdue		15.78%	9.80%	17.58%	9.08%	3.05%	0.00%
Process orders	0	0	0	0	0	0	0
overdue for deletion flag		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Outbound deliveries	1249	125	30	31	25	5	0
overdue for GI		10.01%	2.40%	2.48%	2.00%	0.40%	0.00%
Sales orders open &	961	72	77	366	149	12	0
overdue for delivery		7.49%	8.01%	38.09%	15.50%	1.25%	0.00%
Production orders	3604	213	802	1328	738	146	108
overdue for deletion flag		5.91%	22.25%	36.85%	20.48%	4.05%	3.00%
0	836	15	20	149	278	305	0
		1.79%	2.39%	17.82%	33.25%	36.48%	0.00%

#### LINK TO THE LIST OF BUSINESS PROCESS ANALYTICS KPI

https://launchpad.support.sap.com/#/readiness/TransactionSet('898749000003082')/ObjectPage/section/b pa





# 6.3 SAP Custom Development Projects

With the conversion to SAP S/4HANA, <u>SAP Custom Development</u> projects also need to undergo an SAP S/4HANA compatibility check and a maintenance contract validity check. See below for an overview of SAP Custom Development projects that have been created for your customer number.

**PLEASE NOTE:** You can view all SAP Custom Development projects that have been delivered to you based on the customer number under which the SAP Readiness Check was created. If you have multiple productive SAP ERP installations under the same customer number, then all of your SAP Custom Development projects will be shown for all systems, even though some might be installed only in one of your productive SAP ERP installations.

#### SAP CUSTOM DEVELOPMENT PROJECTS

No SAP custom development projects found.

LINK TO THE LIST OF SAP CUSTOM DEVELOPMENT PROJECTS NO URL available

# 6.4 License Usage Review

The License Utilization and Usage information report provides a comprehensive overview of SAP license entitlements and the current SAP software usage.

User Type	No. of Users	Validity (years)	Regular Use (No. of Users)	Last Logon (more than 12 months back) – No. of Users
A – Dialog User	6041	9999		
B – System User				
C – Communication User				
L – Reference User				
S – Service User				







# 7 S/4HANA Transition Roadmap

# 7.1 S/4HANA Transition Scenario

# Scenario: Brown Field (System Conversion)

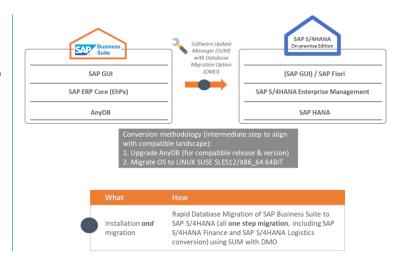
#### Scenario description

In-place conversion of Customer's current SAP ECC6.0 EhPx environment into an SAP S/4HANA system.

Database, SAP NetWeaver *and* application transition in one step.

#### **Benefits**

- + Migration without reimplementation
- + No disruption for existing business processes
- Re-evaluation of customization and existing process flows
- + Leverage Promantus automated tools in the S/4HANA Conversion and achieve near-zero downtime



# 7.2 S/4HANA Business Case

The Business Case provides the economic justification for the proposed project. It documents how and when the investment will be profitable for the customer.

## Strategic Alignment

Business Strategy	Business Strategy
< All projects should support and tie to the organization's strategic goals. Answer how the objectives align with the business strategy. >	< All projects should support and tie to the organization's strategic goals. Answer how the objectives align with the business strategy. >
TECHNOLOGY STRATEGY	TECHNOLOGY STRATEGY

## Benefits

# **TANGIBLE BENEFITS**

- < Tangible Benefit>
- < Tangible Benefit>





- < Tangible Benefit>
- < Tangible Benefit>

### **INTANGIBLE BENEFITS**

- < Intangible Benefit>
- < Intangible Benefit>
- < Intangible Benefit>
- < Intangible Benefit>

### Estimated Value of SAP Solutions for <Customer>

These benefit estimates are Promantus' first estimate only, based on 3rd Party data sources and SAP's benchmarks.

### <Promantus worksheet in progress>

### **Example:**

# Estimated Value of SAP Solutions for <<your company>>)

Values in (€ '000)

Supply Chain

These benefit estimates are SAP's first estimate only, based on 3rd Party data sources and SAP's benchmarks.

Estimated Recurring Benefits	8,887	10,961
Estimated One-Time Benefits	12,900	16,200

Supply Chain	17,500	21,900	impact
Reduce Inventory Carrying Cost	1,400	1,700	Pre-tax Margin
Reduce Days In Inventory	12,900	16,200	Working Capital
Reduce Overall Supply Chain Planning Cost	3,200	4,000	COGS
Finance	797	1,001	Impact
Reduce Days to Close Annual Books	17	21	SG&A
Reduce G/L & Financial Closing Costs	780	980	SG&A

IT/TCO Benefits*	2,230	2,690	Impact
Reduce Average Annual Hardware Replacement Cost	330	490	SG&A
Reduce Software Operating Cost	1,900	2,200	SG&A
IT Productivity*	1,260		Impact
Reduce Labor Cost related to IT Run/Operations	530	660	SG&A
Reduce Labor Cost related to IT	730	910	SG&A

#### \* Assumptions:

- IT Spend (% of revenue) for IM&C companies is 1.4%
   Average Annual HW Replacement Cost is 1.8% of IT Spend
   Average Annual SW Operating Cost is 7% of IT Spend
- · Annual Labor Cost Related to IT Run/Operations is 2.9% of IT Spend
- Annual Labor Cost Related to IT Build and Deploy is 4% of IT spend

Conservative Recurring Benefit Conservative One-Time Benefit Likely Recurring Benefit

Likely One -Time Benefit





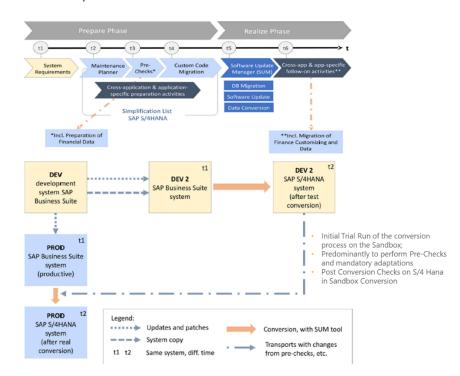
# 7.3 Recommended S/4HANA Roadmap

#### **Database Migration Option (DMO)**

- Relevant steps in one tool and one process, "Big Bang" approach
- Standard prescribed format for migrations to SAP HANA and S/4HANA Conversion

#### Benefits

- Migration without reimplementation
- Flexible and unconstrained HANA migration and S/4 Hana conversion
- 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



# 8 S/4HANA Conversion Scope

# 8.1 Project Scope and Timeline

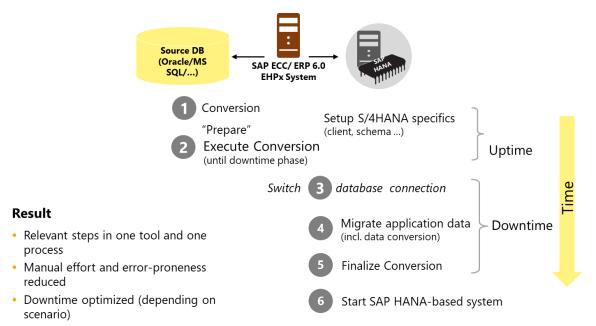
Project Scope (as per current analysis):

S/4HANA Migration	Technical Installation/ Update and Configuration of the SAP HANA appliance software for the Sandbox, Development, Quality Assurance, Production
	Migration of SAP ECC 6.0 Ehp5 to SAP S/4HANA 1909 for Sandbox, Development, QA and PRD system
	Process simplification based on pre-configured business processes carry out configuration checks including manual configuration for Simple Finance Transactions
HANA Knowledge Transfer	HANA Architecture, HANA administration, HANA Conversion, HANA Backup, Optimization
Virtualization	SAP ERP Installation / Migration on Virtual Servers
High Availability	High Availability setup for HANA from HANA DB perspective and testing
HANA Backup	Disk based Backup configuration for HANA DB and testing
Authorization review &	Authorization review & implementation wrt HANA
Custom code optimization	Custom code optimization
	Installation of SAP NW Fiori and Gateway for Sandbox, Development, Quality and
SAP Fiori	Production Environment
SAF FIUIT	25 Standard Fiori Apps will be activated. Additional scope on Fiori App activation or
	customization is to be discussed mutually.
SOLMAN Re-configuration	Re-configuration of SOLMAN 7.2 for S4HANA Migration

Conversion Methodology (as per current analysis):



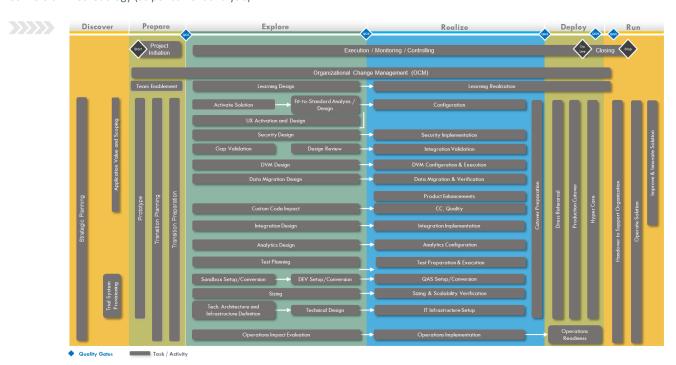




#### Note

Source database continues to run, but is no longer used to store data

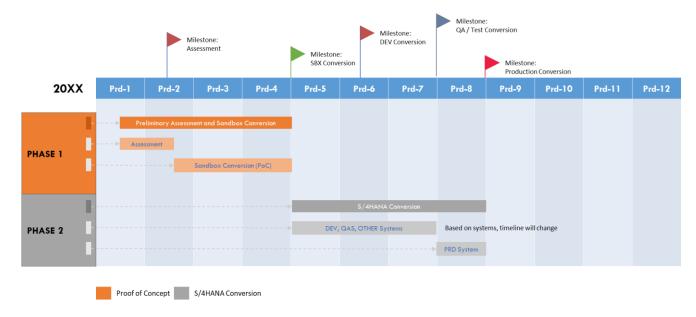
### Conversion Methodology (as per current analysis):







Conversion Timeline (tentative, as per current analysis):



# 8.2 Pricing and Commercials

A budgetary proposal and pricing for S/4HANA Preliminary Assessment (Baseline) / Comprehensive Assessment / System Conversion:

SI. No.	SAP Solution / Service Description (Project Duration: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Cost (USD)
1	Consulting Services for S/4HANA Preliminary Assessment – Baseline Plan	
2	Onsite Travel Estimate (estimated to be approx. 15%)	<actuals></actuals>
	*** This is a budgetary proposal only  *** Consulting efforts does not take into consideration implementation of SAP standard tools & patches	

# 9 Next Steps and Further Information

See the following links for relevant SAP S/4HANA resources:

Topic	Description
	Quick start your digital transformation with the SAP Value Assurance Service Packages for SAP S/4HANA.





Transition to SAP S/4HANA	The project roadmap gives you a general overview of a SAP S/4HANA project by phase, workstream, or service. The results are presented as activities, deliverables, and tasks and are enriched with corresponding whitepapers and SAP Notes.
SAP S/4HANA Trial	Direct link to the SAP S/4HANA trial where you can explore SAP S/4HANA, our next generation ERP suite, with a 30-day trial utilizing the latest SAP S/4HANA release.
SAP S/4HANA Community	Ask questions, share experiences, and build your knowledge of SAP's next generation business suite.

# LINK TO THE LIST OF NEXT STEPS AND FURTHER INFORMATION

 $\underline{\text{https://launchpad.support.sap.com/\#/readiness/TransactionSet('898749000003082')/ObjectPage/section/inf}\ \underline{o}$