

SAP® S/4HANA Roadmap to the Intelligent Enterprise – PART 2



Savantis SAP S/4HANA Advisory
Conversion + Implementation Services

Savantis S/4HANA Advisory Services Point-of-View

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Where the best build Intelligent Solutions

asUG



Start by running the S/4HANA Readiness Check. Align enterprise-wide business and IT objectives and stakeholders that will light your way to the intelligent enterprise.



Architect your modernizations and new S/4 intelligent capabilities to maximize business value and accelerate your start. Select the best-fit strategy for your enterprise—system conversion, selective data transition, or new implementation.



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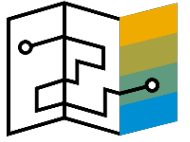


Evaluate the SAP Readiness Check, analyze your simplifications, and blueprint your renovations that will help you narrow your S/4 transition strategy decision.

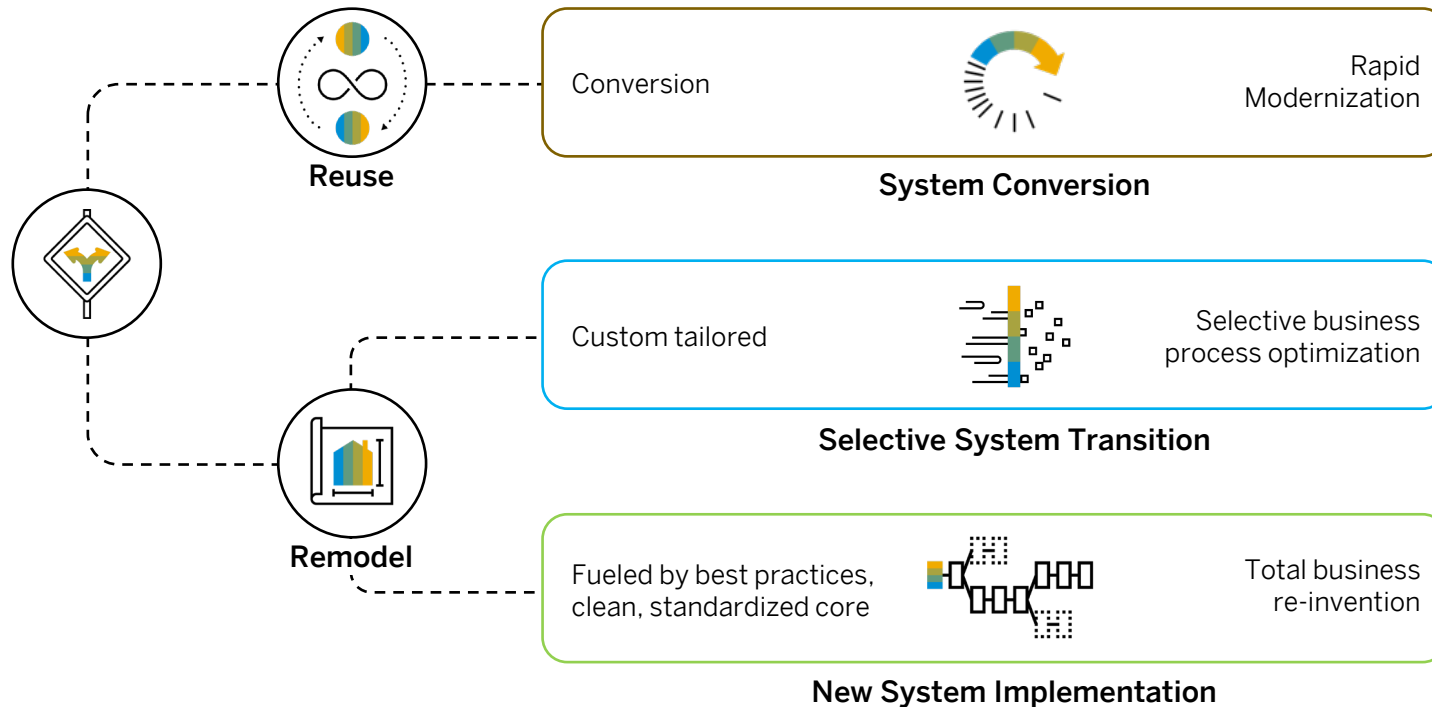


Ready your company for the transformation by executing renovation activities and mapping out your selected S/4 adoption approach—assuring when its time to start, you'll have a smooth journey.

Plotting your course to the Intelligent Enterprise



Three Typical Paths to S/4HANA® Adoption

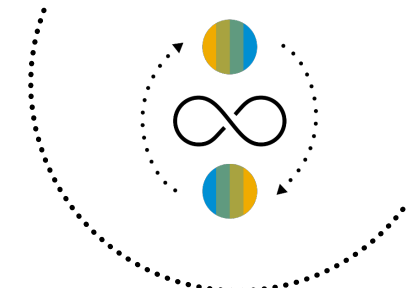


System Conversion. Update your enterprise core by converting your existing configured and customized deployment of SAP ERP ECC 6.x to SAP S/4HANA. This path can be accomplished on premise, or with a cloud hyperscaler such as Google Cloud, Amazon Web Services, or Microsoft Azure.

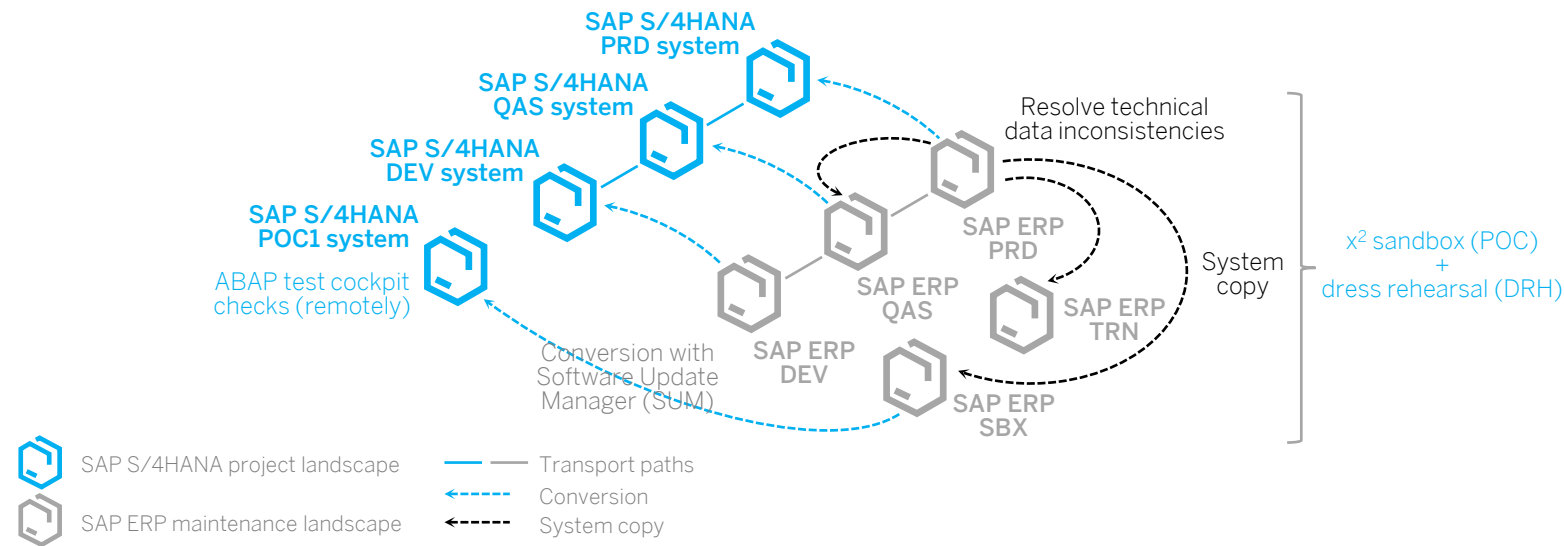
Selective Data Transition. This hybrid approach refers to more complex scenarios that go beyond the two standard options of system conversion and new implementation. It comprises options that increase the project's risk, effort, and complexity.

New Implementation. Choose this approach for getting a clean start along with an enterprise transformation. A new implementation can be performed on premise, in the cloud, or as a hybrid.

Reusing your configuration with a conversion



Conversion Cycles in a Three-System Landscape



- System conversion is a well-developed process supported by tools and utilities provided by SAP for analysis and execution.
- A system conversion preserves your configuration, historical data, business processes, and custom code.
- SAP S/4HANA and the in-memory database operates very differently than past versions of SAP ERP.
- A conversion is significantly more than an 'upgrade'.
- Simplifications items are changes to core functionality in S/4HANA from that of older versions of SAP ERP 6.x that have optimized and simplified the vast solution code base that has proliferated in the last two decades.
- The SAP Fiori® user experience (UX) is another significant step forward in providing the business user communities access to SAP S/4HANA.

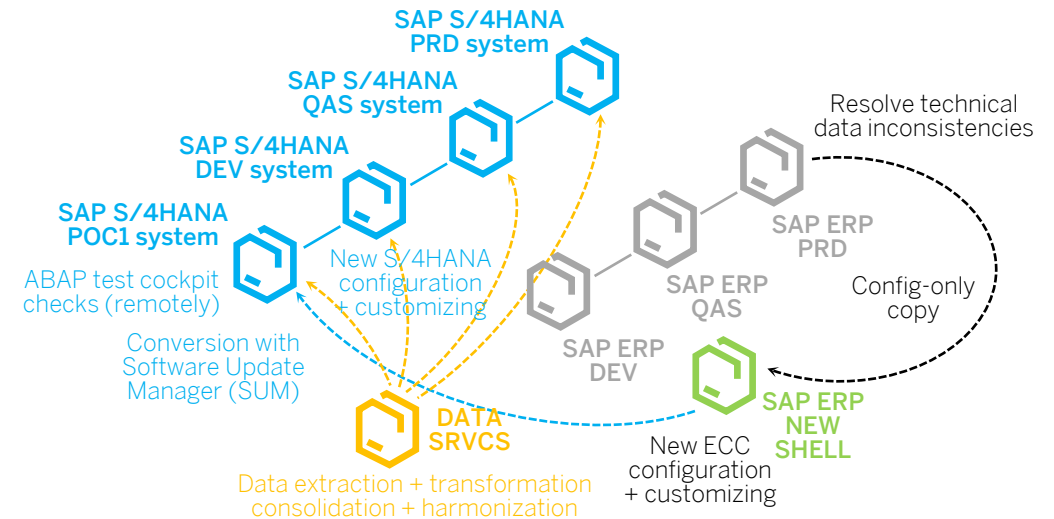
Reuse + Renovate = New S/4HANA Shell



If your existing SAP ERP 6.x system is relatively standard, still fits your company's business models and contains controllable custom code, you may choose to investigate an alternative approach to transition, called the Shell Approach.

In this scenario, you are seeking more immediate business value from the transition by reusing your assets in the source system and simultaneously renovating selective core business functionality by implementing from scratch in areas where you need immediate innovation to support differentiating capabilities.

1. Perform a new shell creation from your source SAP ERP 6.x system
2. Execute base customizing and configuration in the shell system
3. Execute a standard system conversion of the source shell system
4. Perform additional S/4HANA customizing and configuration changes to implement the differentiating capabilities.
5. Load harmonized master data, open items and historic data from the S/4HANA Migration Cockpit.

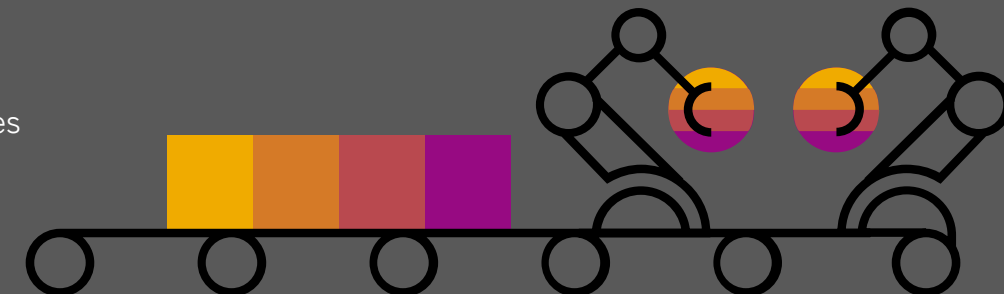


OPEN ITEMS

The term open items stands for financial open items, but it also includes balances, stock, open sales and purchase orders and other business objects. More generally, it refers to the initial dataset required to start business operations.

HISTORIC DATA

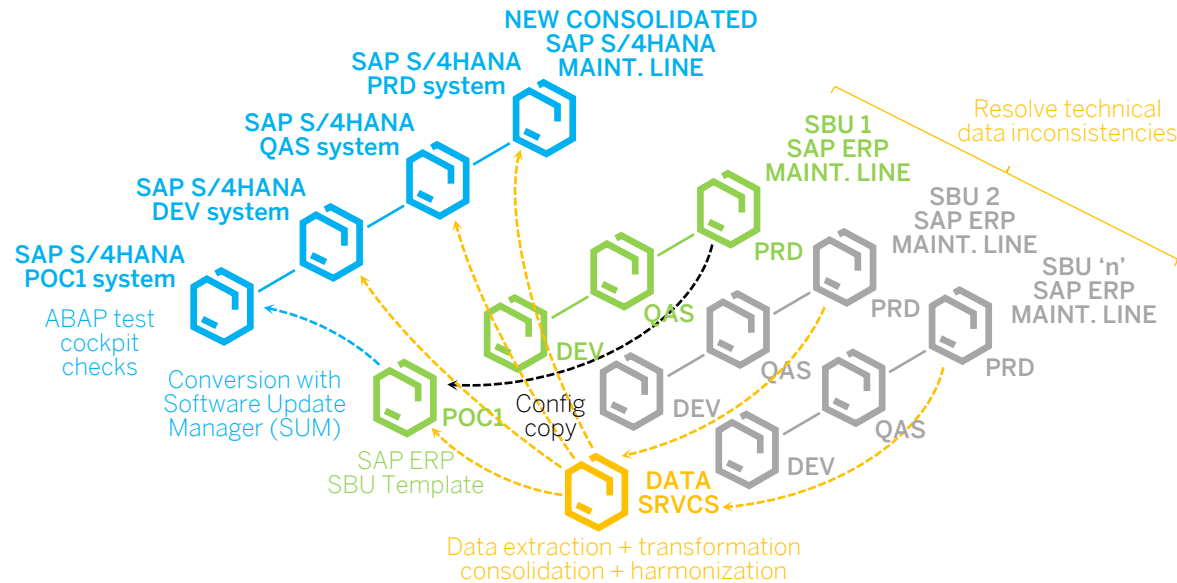
Historic data means completed and closed transactional data, e.g., fulfilled and fully billed sales orders, purchase orders and plant maintenance orders, as well as partially closed documents, for example, partially delivered sales orders.



Consolidating SAP landscapes

The primary business driver for a selective data transition approach is consolidating instances of SAP into a single platform that drives business process centralization and standardization most commonly found in MA&D.

Existing Source System Template Conversion + Data Harmonization



- Implementing a new SAP S/4HANA system based on an industry best practice solution followed by loading harmonized master data and open items from all source systems or,
- Converting one of the source systems that is a best-fit template for the enterprise and loading harmonized master data and open items from the other source system into the new consolidated instance (depicted above).

If you require historical data from numerous SAP ERP source systems, the selective data transition approach is your best fit option.

BUSINESS DRIVERS OF HISTORICAL DATA

In selective data transition programs, three guiding questions help to determine historic data conversion:

1. What data is absolutely required to start your business operations?
You need to have absolute clarity about what business objects you need and why.

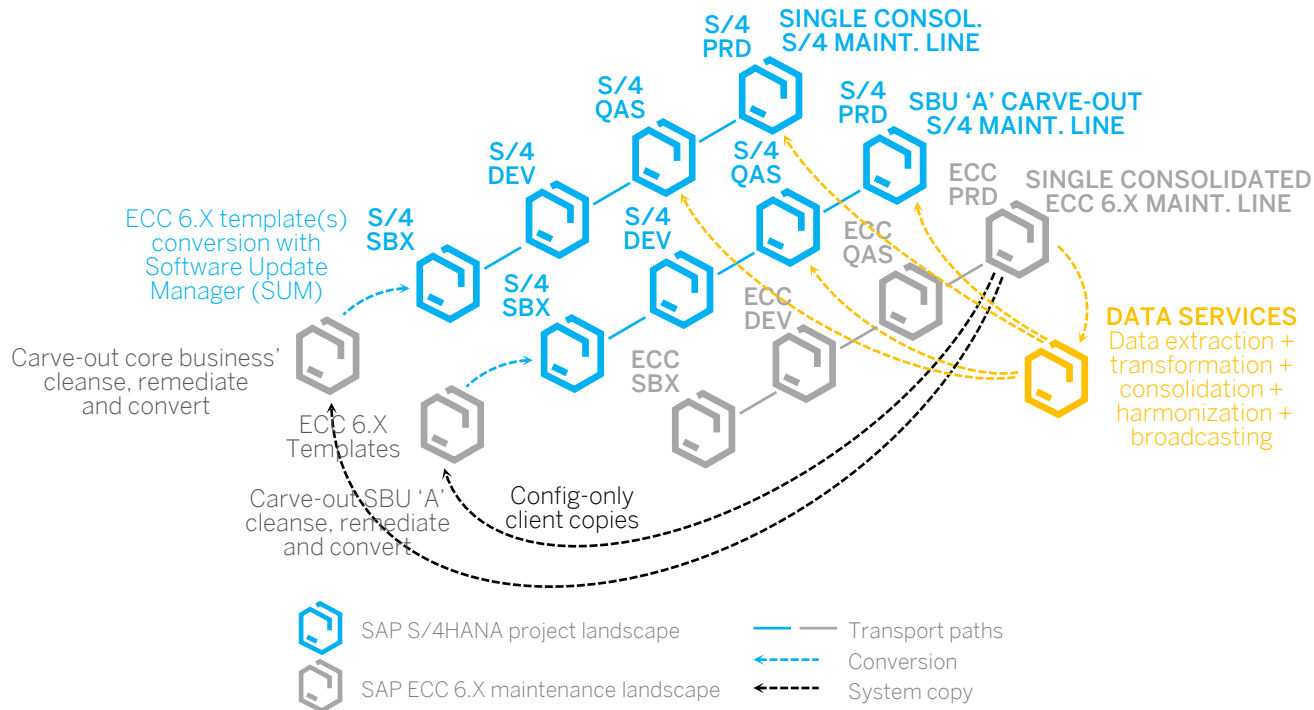
2. How well do you understand the mechanics of data migration?
SAP S/4HANA migration cockpit uses standard application logic to provision the data. The Software Update Manager (SUM) tool applies software vendor logic to convert the data in place during a system conversion.

3. Would you rather spend project budget on innovations or data migration? When migrating historic data, the extra cost comes not only from the specialized services you need, but also from extensive testing that is required for complex selective data transition scenarios.

Carving-out SAP landscapes

Another business driver for a selective data transition approach is carving out a business unit from the single instance of SAP into a two or more independent platforms that drives business process specialization often found in an MA&D divestiture business strategy.

Existing Source ECC 6.X System Template Conversion + Carve-out + Data Conversion



- Copy single instance source system, carve-out business unit configuration and cleanse template.
- Convert the template and load harmonized master data and open items from source system into the new carve-out instance (depicted above).

If you require historical data from the SAP ERP source system, the selective data transition approach is your best fit option.

SELECTIVE DATA TRANSITION

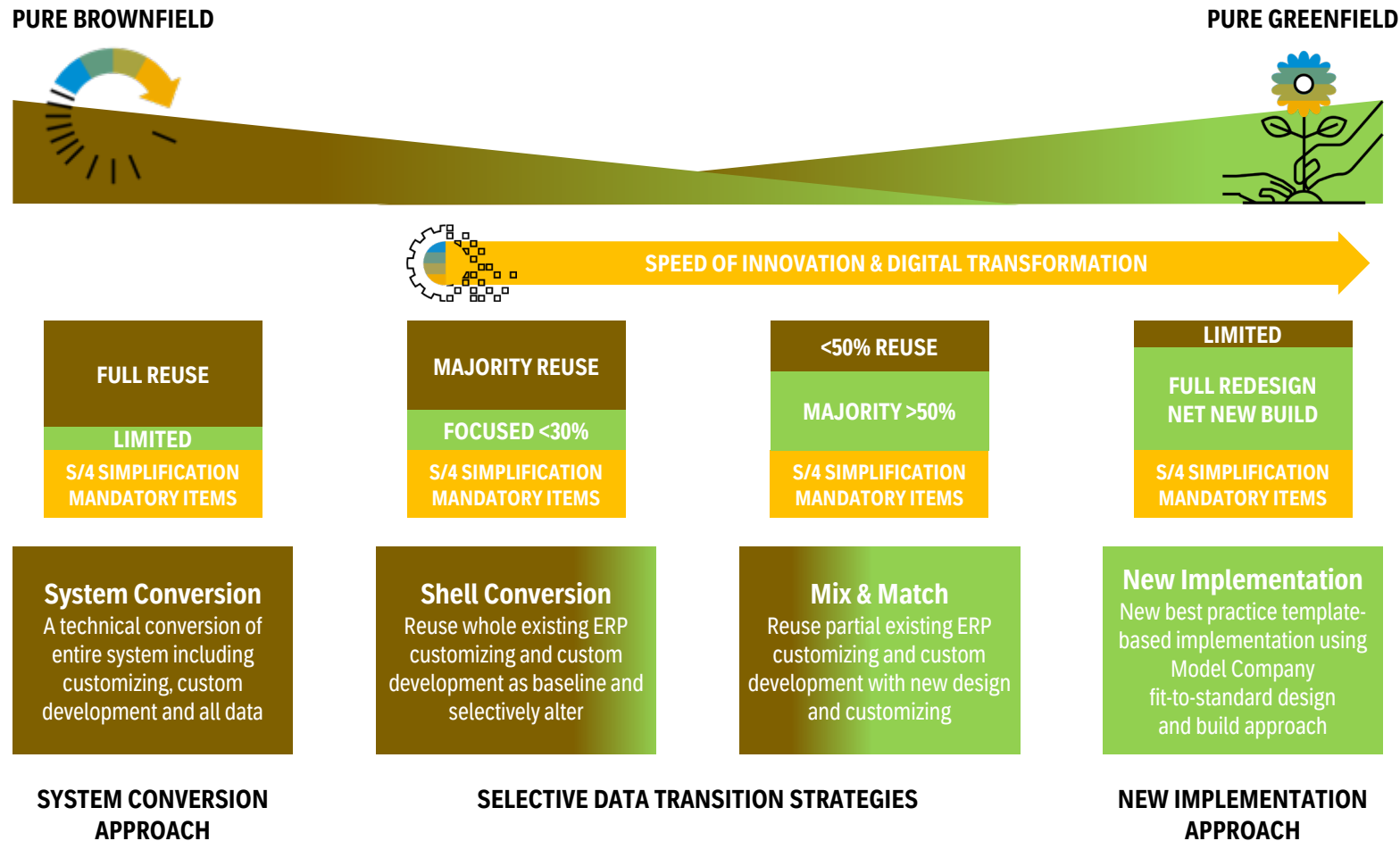
Selective Data Transition allows you to selectively re-use parts of your existing ERP solution while re-designing other parts simultaneously. Typically, this is done by application area, e.g., re-using the logistics configuration but re-designing the finance area. As shown in the diagram, a Shell Conversion is used when most of the solution and processes can be re-used. A Mix and Match strategy is used when the majority of the solution should be re-designed.

As its name implies, this approach involves transferring data from one or more existing ERP solutions to a new S/4HANA solution. The data selectively transferred can include:

- ABAP repository of objects and developments
- Configuration (customizing) data
- Master data
- Transaction data (open items and a time-slice of historical closed items, e.g., 2 years).

There are two common approaches to create a target system with Selective Data Transition. The Shell Conversion strategy and the Mix and Match approach. In a Shell Conversion, a shell copy of a production system is made without master and transaction data and is converted to SAP S/4HANA. In Mix and Match, a new S/4HANA install is created and then elements of the existing configuration and ABAP repository are transported or manually transferred. Both scenarios require data migration to follow including master data, balances and open items.

Understanding transition strategies across the spectrum of convert-to-build approaches



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SAP S/4HANA Discovery and Preparation Roadmap

MONTH 1	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6	MONTH 7	MONTH 8	MONTH 9	MONTH 10	MONTH 11	MONTH 12
TECHNICAL SPT	SOLUTION & TECHNICAL ANALYSES		TRANSITION STRATEGY SELECTION			ECC MODERNIZATIONS + S/4 PRE-WORK					
	SAP READINESS CHECK ANALYSIS		SIMPLIFICATION + INNOVATION DISCOVERY			BUSINESS CASE + PROGRAM CHARTER DEVELOPMENT			PROGRAM PLAN + ESTIMATES-TO-COMPLETE		
Analyze SAP Technical Infrastructure. Select PRD replica to run SAP Readiness Check. Ensure interfaces, custom code and data volumes are consistent with PRD	Conduct SAP Readiness Check 2.0 deep-dive analysis sessions and playback results to key business and IT stakeholders. Explore SAP S/4HANA transition strategies, concepts and approaches		Prepare and execute simplification and digital innovation sessions aligned to business improvement imperatives for change. Curate analyses, quantify pros & cons of each S/4 transition strategy, and select the best-fit approach.			Develop program business case and charter for your selected option. Document and quantify all business value opportunities by functional and technical area delivered thru digital transformation and automation.			Develop S/4HANA program WBS schedule, resource staffing plan, and estimates to complete. Submit budgetary funding requests.		
Load all applicable SAP Notes to run Readiness Check	Develop a high-level discovery and preparation phase WBS plan & estimates		SAP APPLICATION LIFECYCLE MANAGEMENT								
Validate SAP Solution Manager ALM processes, versions and readiness for SAP Readiness Check 2.0 generation	Review current-state LoBs, brands, geos, business models, multi-year business imperative roadmap including MA&D planning and initiatives		Assess the benefits of migrating your SAP ALM solution to SAP ALM Cloud or Solution Manager 7.2 SPS15+ to support the S/4HANA project and ongoing productive application management after go live. Achieve value in project management acceleration, quality delivery, and ongoing support efficiencies.			Establish program governance structures and PMO processes for scope, time, cost, resource, issue, risk, quality, and communications management, controlling and reporting for ECC Modernizations, S/4HANA Simplifications, Cloud Enablement, Data Harmonization and Archiving, and SAP ALM Renovation Pre-Projects. Implement new SAP ALM business processes, modernize system documentation and artifacts. Implement new Test Suite, migrate old ECC test assets, update test scenarios, scripts and cases. Implement and integrate new automated testing solutions and develop automated test assets.					
Run SAP Readiness Check and validate all tiles have generated successfully	Review business and IT pain points and key digital transformation innovation areas		SAP FUNCTIONAL AREA WORKSTREAMS								
Upload results to SAP web services to generate SAP Fiori-based report and extend SAP authorizations to report for core team members	Analyze SAP Readiness Check Report including Simplification Items, Add-Ons, Integrations, Custom Code, Master and Transactional Data, etc.		ECC Modernizations that Accelerate S/4 Transition Explore ECC modernizations that will improve business efficiencies, prepare your user community for S/4 adoption, and reduce overall change impacts.			Execute ECC Modernizations Develop business process decomposition and pre-work plan for all workstreams, e.g., OTC, PTP, FTP, RTR. Architect, design, build, test, and deploy new ECC OTC, PTP, FTP, RTR org changes, business process cleanup and S/4 preparation configuration.					
			S/4HANA Simplifications and Improvements Evaluate, compare, and contrast current ECC feature/functionality with the new ways of working in S/4.			Execute ECC > S/4 Simplifications and Improvements Develop high-level scope and designs for new build items. Architect, design, build, test, and deploy new ECC solutions to support future state S/4 simplification items and digital innovations.					
			S/4HANA New Intelligent Functions and Capabilities Discover new intelligent S/4 functions, features, and capabilities that can drive business improvements through new digital business models.			Architect and Design S/4HANA New Intelligent Functions and Capabilities Develop high-level scope and designs for new build items. Architect and design new intelligent S/4 functions, features, and capabilities that can drive business improvements through new digital business models.					
			SAP DATA CLEANSING, HARMONIZATION & ARCHIVING								
			Analyze SAP master and transactional data volumes, data inconsistencies and SAP DB size. Assess archiving potential that reduces the size and cost of the SAP HANA in-memory database.			Remediate Data Inconsistencies in Source ECC Cleanse and harmonize master data (CVI) and close transaction data open items. Analyze as-is database table sizes, volumes, and retention strategies.			Data Archiving Execution/Data Conversion and Migration Planning Project Execute data archiving and/or assess and select data migration tools for mapping and conversion of master data and historical transaction data.		
			SAP APPLICATION DEVELOPMENT								
			Analyze custom ABAP code, quantify RICEFW objects, and estimate remediation efforts. Assess key system integrations, add-ons and bolt-ons for vendor certification to target S/4HANA version.			Establish ABAP Test (ATC) instance on Cloud PoC Quantify custom code remediation efforts and categorize in P1, P2, P3, P4. Execute preliminary ATC checks for code remediation and adaptation.			Custom Code Remediation and Adaptation Execution Project Execute preliminary custom code remediation and adaptation of key system extensions, user exits, system bolt-ons and add-ons.		
			SAP FIORI, EMBEDDED & ENTERPRISE ANALYTICS								
			Understand the new S/4 virtual data model and the power of embedded analytics. Take full advantage of the SAP HANA database and Fiori user-based productivity enhancements. Discover how new augmented and predictive analytics based on ML will redefine the Insight-To-Action lifecycle.			Refine UX/UI, Reporting & Analytics Strategies Develop enterprise wide Fiori, embedded and enterprise reporting and analytics strategy, solutions, tools and implementation plans.					
			CLOUD INFRASTRUCTURE & SAP TECH ARCHITECTURE								
			Assess the benefits of migrating on-premises infrastructures to cloud hyperscalers to achieve quantifiable business value in the areas of resiliency, agility, cost savings, and staff productivity. Review as-is, and design future-state SAP technical strategy, system instances, versions, OS/DB, sizing, HA/DR, Security and Compliance and develop cloud business case for change.			Build Cloud Proof-of-Concept (PoC) Based on PRD and the selected S/4HANA transition strategy Conversion or Shell, develop detailed plans for cloud migration including ETC.			Cloud Enablement/Migration Project Execute cloud migration from on-premise or co-location data center to cloud hyperscaler.		
			ORGANIZATIONAL CHANGE MANAGEMENT & TRAINING								
			Assess org change impact of transition strategy on business org alignment, readiness, users, deployment strategy, etc. Govern, manage and champion digital innovation discovery, and analysis using business process segmentation model approach to differentiating capabilities			Perform Stakeholder Assessment and Org, Site and User Change Impact Analysis based on S/4 simplification items and new intelligent capability augmentation.			Develop OCM&T Business Case for Change. Develop detailed OCM&T change, communications, and training plan. Identify and perform OCM&T workstream pre-work, e.g., role mapping, methods and tools enablement, training curriculum and assets, accelerators and job aides.		



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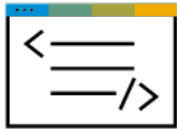


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Part 1: Preparing to run the SAP Readiness Check



The preparatory steps required to ready your system to run the SAP Readiness Check will differ based upon your source system's ERP version, enhancement package level and basis stack to your desired target S/4HANA version.

1. SPAM needs to be updated to latest version based on ECC EHP 0-6
2. ST-PI ST-API Plugins need to be updated
3. SNOTE 1668882: Important notes for SAP_BASIS 730,731,740,750,751,752 (Basis stack)
4. SNOTE Tool updates 875986: Important notes for SAP_BASIS up to 702
5. SAP Backbone integration notes 2836302: Automated guided steps for enabling Note Assistant for TCI and Digitally Signed SAP Notes
6. 'RCWB_TCI_DIGITSIGN_AUTOMATION - Report name in SE38 will automatically check and download notes for TCI and SAP Backbone
7. TCI Notes - Transport correction integration 2187425 - Information about SAP Note Transport based Correction Instructions (TCI)
8. Review master SNOTE 2913617 - SAP Readiness Check for SAP S/4HANA
9. 2185390 - Custom Code Analyzer (program SYCM_DOWNLOAD_REPOSITORY_INFO)
10. 2399707 - Simplification Item Check
11. 2502552 - S4TC - SAP S/4HANA Conversion & Upgrade new Simplification Item Checks
12. Apply all the required SAP NOTES to run the readiness check based on source version to target version of S/4HANA (2020.2021.2022)
13. RTCCTOOL checks system and downloads the notes and can install. Is required for FDQ and DVI scenarios to run
14. RC_COLLECT_ANALYSIS_DATA report - Typically runs 24-48 hours depending on size and scenarios selected.
Will finish the reports and there is a button to download the files to a PC

Loading prerequisite notes for SAP Readiness Check



SAP Note	Recommended Min Note Ver	Delivered Capability	Associated Component	Related Job Name(s)	Notes
2758146	69	SAP Readiness Check Framework	SV-SCS-S4R	RC_COLLECT_ANALY SIS_DATA	This SAP Note delivers the data collection framework, which is controlled via report RC_COLLECT_ANALY SIS_DATA. The user ID used to schedule the batch collection job requires Activity 16 (execution) authorization for the object S_DEVELOP. Important: This SAP Note is updated on a regular basis, so please ensure you have implemented the latest version, especially if you are planning to perform the latest checks. If SAP Note 2310438 has been implemented previously, it must be reverted prior to implementing SAP Note 2758146.
2399707	151	Enable Simplification Item Relevance Check and Compatibility Scope Analysis	CA-TRS-PRCK	TMW_RC_SITEM_DATA_COLL	In addition to enabling the simplification item relevance check and the compatibility scope analysis, this SAP Note is also responsible for the Target S/4HANA Version capability in report RC_COLLECT_ANALY SIS_DATA. The implementation of the code corrections included in SAP Note 2399707 is a minimum requirement for SAP Readiness Check. However, the implementation of SAP Note 2502552 and the execution of the consistency check described within SAP Note 2399707 is recommended but optional.
2903677	31	Enable Effort Drivers of Simplification Items	CA-TRS-PRCK	TMW_RC_EFD_DATA_COLL	This SAP Note offers the ability to include the effort driver analysis for simplification items with the initial effort ranking of Potentially High. The result is that effort ranking for some simplification items could be recalculated based on the scope and complexity of the system being analyzed.
2502552	90	Enable Simplification Item Consistency Check	CA-TRS-PRCK	TMW_RC_SITEM_DATA_COLL	This SAP Note enables the optional data collection process for the consistency check. If you opt to include this data in your analysis, please ensure that you always use the latest version of this SAP Note. It is an addition to SAP Note 2399707. You must read and implement SAP Note 2399707 first and follow all steps, including the implementation of related SAP Notes listed in SAP Note 2399707.
1872170	85	Enable SAP S/4HANA Sizing Analysis	XX-SER-SAPSMP-ST	TMW_RC_HANAS_DATA_COLL /SDF/HDB_SIZING_SM	This SAP Note delivers the ABAP on HANA sizing report (/SDF/HDB_SIZING) and the associated API for enabling SAP Readiness Check to call and process the SAP S/4HANA sizing results. Note that, if you want to disable this analysis from scope when scheduling RC_COLLECT_ANALY SIS_DATA, the Data Volume Management option must be deselected first.

The SAP Notes included in this section are the base SAP Notes required to be applied to successfully run the SAP Readiness Check. These notes need to be applied in the system most representative of your production system. There are likely to be SAP Notes that need to be applied based on your systems' enhancement pack, stack version, etc.

Loading prerequisite notes for SAP Readiness Check



SAP Note	Recommended Min Note Ver	Delivered Capability	Associated Component	Related Job Name(s)	Notes
2721530	5	Enable Data Volume Management Analysis	SV-SMG-DVM	TMW_RC_DVM_DATA_COLL BP_APPLICATION_ANALYSIS_01 DANA_ANALYSIS TAANA_ANALYSIS	2972792 This FAQ Note acts as central SAP Note for enabling the Data Volume Management analysis as a part of SAP Readiness Check. It is important to follow the guidance in the referenced SAP Notes, including: 1159758, 2612179, and 2693666. Note that this analysis requires the selection of the SAP S/4HANA Sizing analysis when scheduling RC_COLLECT_ANALYSIS_DATA.
2972792	54	Enable Financial Data Quality Analysis	SV-SCS-S4R	TMW_RC_FDQ_DATA_COLL	This SAP Note acts as a central SAP Note for delivering the financial reconciliation reports used by the Financial Data Quality analysis, which provides insight into the level of effort to prepare for the financial data conversion as part of the conversion to SAP S/4HANA. Please note, once implemented, the Financial Data Quality check will remain deselected by default. When selected to be in scope, the selection of the Schedule Analysis option will initiate a prerequisite SAP Note check of the system. Any missing SAP Notes for the conversion reconciliation process will then be provided. These SAP Notes must be implemented before SAP Readiness Check can be scheduled, with this check active. There is the potential, depending on the volume of financial data, that this check could run longer than other checks. If necessary, it is possible to schedule the Financial Data Quality check in isolation from rest of the SAP Readiness Check data collectors. Once complete, the results of the Financial Data Quality check can then be appended (using Upload function) to the analysis session created with the original ZIP archive.
3010669	9	Enable Customer Vendor Integration Analysis	LO-MD-BP-SYN		This SAP Note acts as a central SAP Note for the Customer Vendor Integration Analysis (formerly Business Partner Check) capability delivered by SAP Readiness Check. As indicated in SAP Note 3010669, SAP Note 2811183 is required to be implemented if it is not already implemented.
3061414	1	Enable Integration Analysis	SV-SMG-MON-BPM-DCM		This SAP Note details the steps required to enable successful execution of the Integration check data collectors. The check results provide insight into interfaces that could be impacted as part of a system conversion project and provides guidance on mitigating the impact. Please note that the data collector for this extended analysis is delivered starting with version 56 of SAP Note 2758146. SAP Note 3061414 only outlines the steps necessary for successful execution of the check, including required prerequisite SAP Notes.

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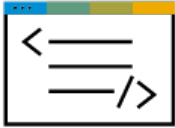
Loading prerequisite notes for SAP Readiness Check



SAP Note	Recommended Min Note Ver	Delivered Capability	Associated Component	Related Job Name(s)	Notes
2745851	47	Enable Business Process Discovery Analysis	SV-SMG-MON-BPM-ANA	TMW_RC_BPA_D ATA_COLL	This SAP Note delivers the ability to include Business Process Improvement (BPImp) analysis as part of SAP Readiness Check. As indicated in the SAP Note, the user ID used to execute RC_COLLECT_ANALY SIS_DATA is assigned authorization object SM_BPM_DET with the Characteristic of 'OBJECT_MS' (collected KPI's).
2827612	23	Enable Innovation Potential Dashboard Results	SV-SCS-S4R	TMW_RC_INNOV A_DATA_COLL	This SAP Note is responsible for enabling the optional Innovation Potential analysis, which populates the Innovation Potential dashboard with guidance on possible areas for future innovation based on current system usage statistics. If the ST-PI component version in the landscape is less than or equal to ST-PI 2008_1_700 SP27, ST-PI 2008_1_710 SP27, or ST-PI 740 SP17, you need to implement the SAP Note 2827612 to enable innovation potential sub check.
2185390	59	Enable Custom Code Analysis via Custom Code Analyzer (SYCM)	BC-DWB-CEX		The Custom Code Analyzer (program SYCM_DOWNLOAD_RE POSITORY_INFO) enabled by SAP Note 2185390 is one of two options for analyzing custom code as part of SAP Readiness Check. Unlike other aspects of SAP Readiness Check, the Custom Code Analyzer is manually triggered outside of RC_COLLECT_ANALY SIS_DATA, following the guidance outlined in SAP Note 2185390. Also, unlike other aspects of SAP Readiness Check, this analysis can be executed in a development system, as such a system is likely to include productive objects and objects current being transported (or in-flight changes) to production. For performance reasons, run the report with default namespaces and set the Exclude References Within Customer Object Selection flag.
2781766	12	Enable Custom Code Analysis via ABAP Test Cockpit	BC-DWB-CEX		The ABAP test cockpit is an alternative custom code analysis tool supported by SAP Readiness Check. The ABAP test cockpit will perform a more in-depth analysis in comparison to the Custom Code Analyzer. However, it must be highlighted that there are additional steps required to enable this analysis. The process for establishing an ABAP test cockpit system for performing this analysis is documented here. SAP Note 2781766 must be implemented on the system where the ABAP test cockpit is installed and enabled. If that system is >= SAP_BASIS 7.53 SP3 or >= SAP_BASIS 7.52 SP5, SAP Note 2781766 is not required, as the functionality is already available in those releases. To create the ZIP archive in the ABAP test cockpit for upload to SAP Readiness Check, select the context menu option Export to -> File for SAP Readiness Check in the ABAP test cockpit result browser. Similar to the Customer Code Analyzer, the ABAP test cockpit analysis is conducted outside of the program RC_COLLECT_ANALY SIS_DATA and is later uploaded to the analysis created on the landing page of SAP Readiness Check.

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Part 1: Uploading the SAP Readiness Check results



Goto site <https://rc.cfapps.eu10.hana.ondemand.com/comsaprcweb/index.html> for SAP Online Portal Fiori-based Tile Report. This will require your S# user ID.

Status	Analysis Name	System	Start Time	Progress	Version	Actions
Available	Southco Conversion	SAP S/4HANA Conversion	3/9/2021 12:15:20 PM	EHP (100)	SAP S/4HANA 1909 (02 (05/2020) FPS)	Refresh, Delete, Menu, Star
Available	Southco Full	SAP S/4HANA Conversion	7/1/2020 3:01:22 AM	EHP (100)	SAP S/4HANA 1909 (02 (05/2020) FPS)	Star

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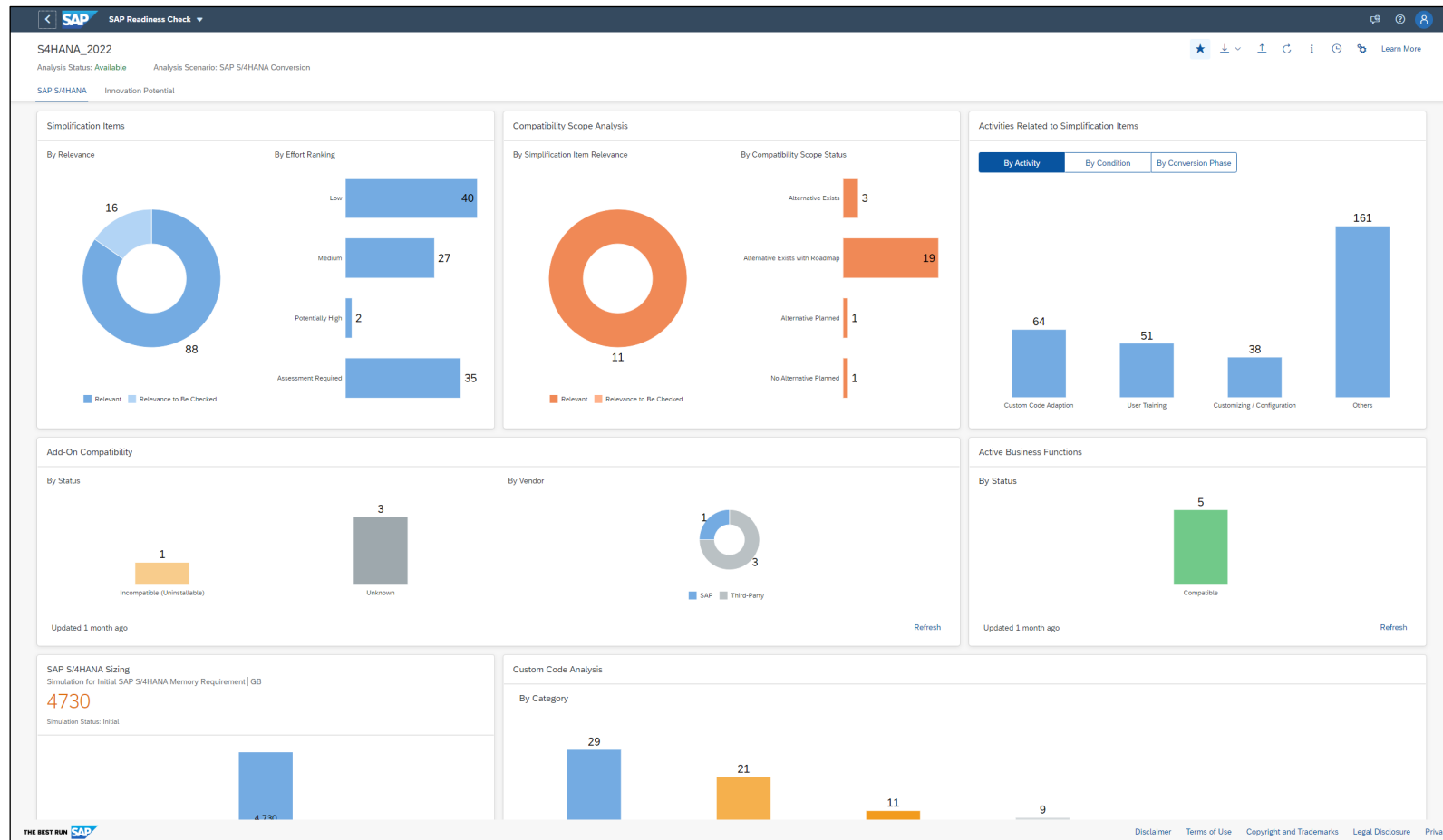
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Evaluating the SAP Readiness Check

With SAP Readiness Check 2.0 for SAP S/4HANA, SAP provides an overview of the most important aspects for an SAP ERP 6.x system conversion to SAP S/4HANA. Converting a system to SAP S/4HANA requires a migration to SAP HANA (if not currently running on SAP HANA), and the installation of new simplified code and adaptations.



What is SAP Readiness Check for S/4HANA?

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 built on SAP HANA, which is one of the most advanced in-memory platforms today. To build SAP S/4HANA, SAP has reimagined 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.

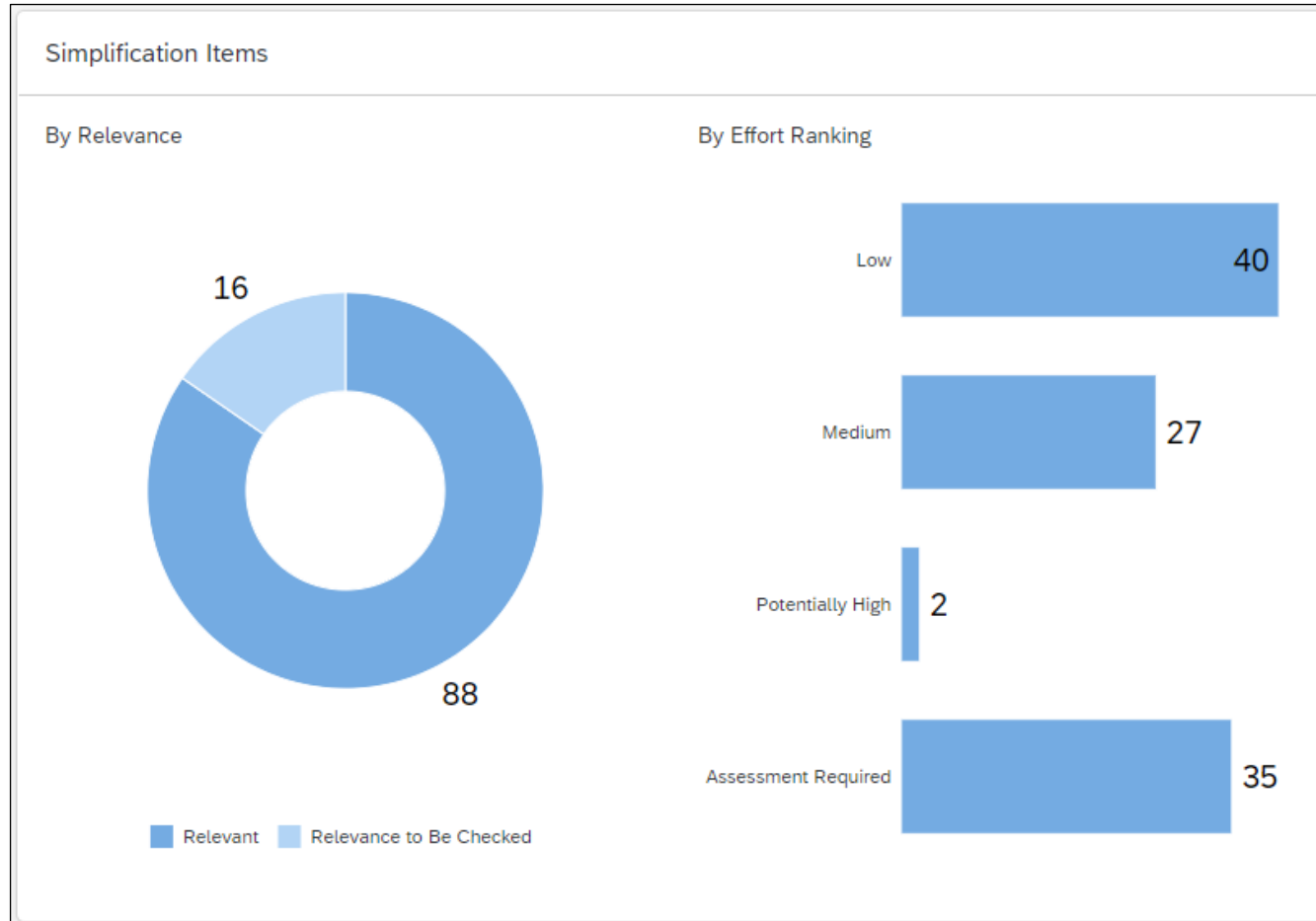
A comprehensive overview of all simplifications for SAP S/4HANA, compared to SAP Business Suite products, are captured in the Simplification List for SAP S/4HANA. For a given customer, only a limited number of simplification items from this extensive list are applicable.

To provide customers with an overview of the implications when converting a specific SAP ERP 6.0 to SAP S/4HANA, SAP offers SAP Readiness Check for SAP S/4HANA.

This feature scope description shows you which features are available to help the customers' architects and SAP basis administrators preparing for SAP Readiness Check execution.



Simplification Items



SIMPLIFICATION ITEMS

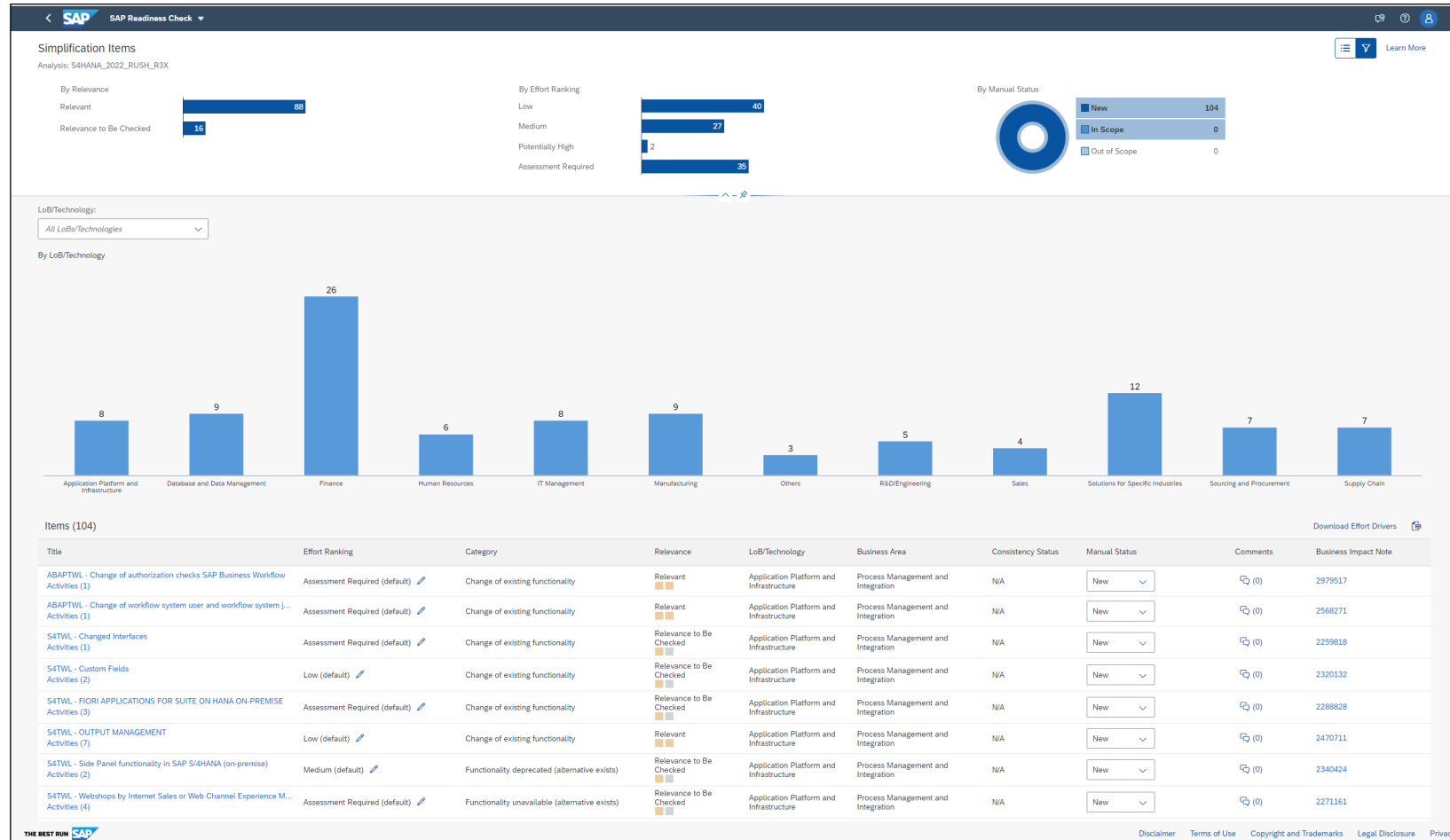
To enable SAP customers to better plan and estimate a conversion to SAP S/4HANA, SAP has created a "simplification list" where they have described the detailed functional changes from past versions of ERP to the new S/4HANA solution capabilities.

The simplification list is a collection of individual items that focus on what needs to be considered during a conversion project. The SAP Readiness Check for SAP S/4HANA displays the items that are relevant for your specific SAP ERP 6.x system conversion to SAP S/4HANA. The simplification items are identified according to factors such as transactions used, customizing, and tables. The simplification items are one of the most important means of preparing your move to SAP S/4HANA, and enable you to do the following:

- Display the S/4HANA simplification items that are relevant for your SAP ERP and reference related project activities for each item to organize project efforts.
- Focus on the most important activities first, for example, which business decisions are to be made and which tasks can be performed now on SAP ERP 6.0.
- Filter for mandatory and conditional activities to ease project planning and organize work by setting statuses.
- View an effort ranking of simplification items that is based on previous project experiences.



Simplification Items



SIMPLIFICATION ITEMS

For your transition, SAP provides information about the relevant changes that might have an impact, grouped by simplification items. Only a number of items apply to your analyzed system, though.

This section shows the simplification items that have been identified as relevant for your specific source system. The check is mainly based on table contents and used transactions.

The Effort Ranking indicates SAP's effort estimation for the corresponding simplification item:

- **Low:** The simplification item usually requires a fixed effort. It can typically be handled within a few days during the implementation project.
- **Medium:** The simplification item usually requires a fixed effort. It can typically be handled within a few weeks during the implementation project.
- **Potentially High:** The effort to handle the simplification item is usually high. However, the required effort varies depending on the customer-specific setup of applications.
- **Assessment Required:** SAP cannot make a generic statement for the simplification item. For an effort ranking, a subject matter expert assessment is required. Display the S/4HANA simplification items that are relevant for your SAP ERP and reference related project activities for each item to organize project efforts.

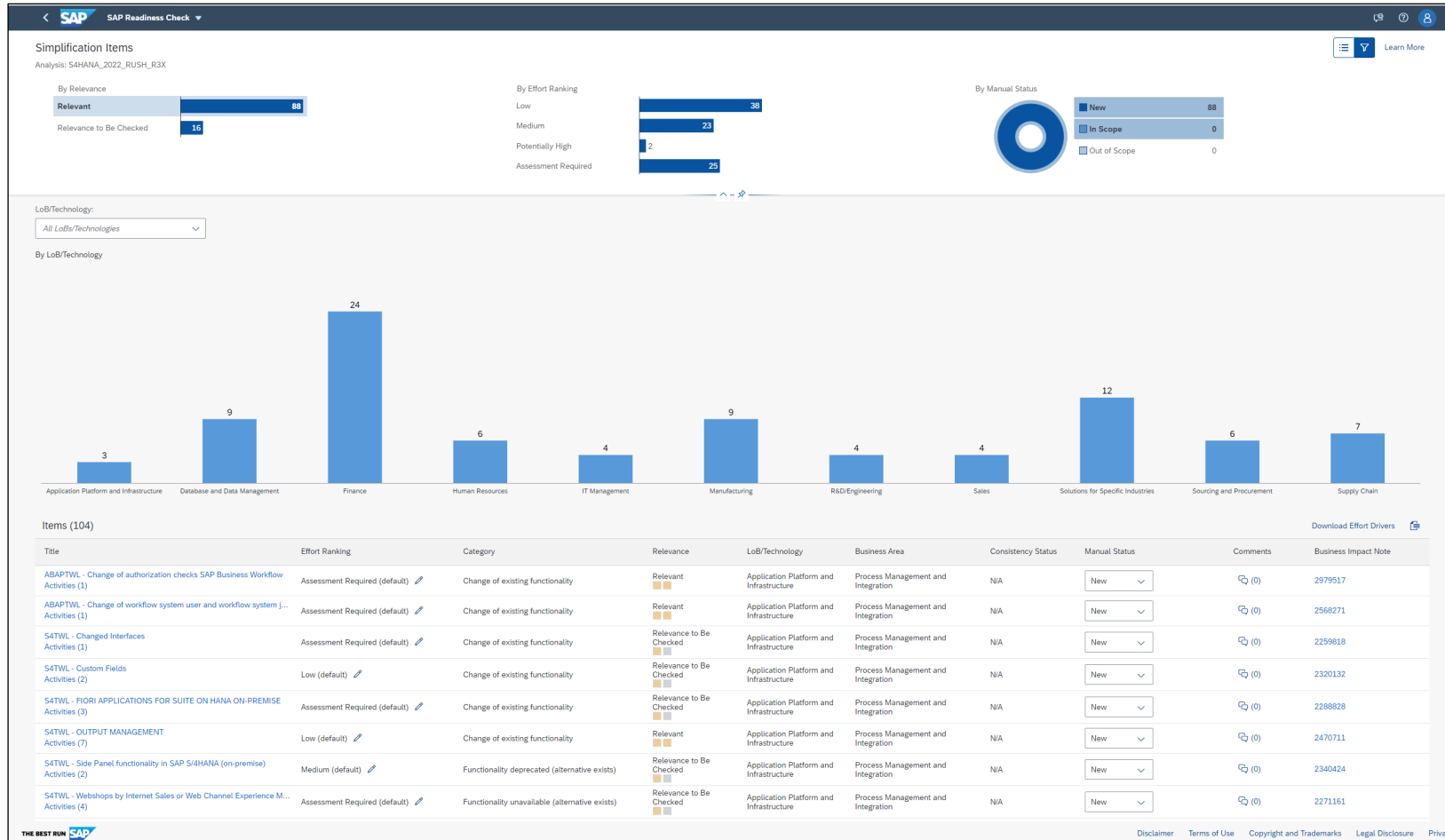


Simplification Items – Relevant

SIMPLIFICATION ITEMS

The tool provides an initial effort ranking in the table below, labeled as (default). You can change the ranking by choosing a different category in the dropdown list. Note that the initial effort ranking might be recategorized due to the analysis of effort drivers in your system. In such cases, the changed effort ranking is then labeled as (calculated). Furthermore, the Items list displays factors (so-called effort drivers) that will influence the effort to implement simplification items identified as relevant for your transition project

Effort drivers provide transparency on the anticipated level of effort required for implementing simplification items and are based on previous SAP S/4HANA project experiences. By choosing Effort Drivers in the table, identified effort drivers of the corresponding simplification item are listed in more detail. In addition, the required effort is shown either by comparing the value of the analyzed system to reference values or by indicating a decrease (green font) or increase (red font) of effort. Currently, effort drivers are only provided for simplification items that are categorized with the effort ranking category Potentially High.

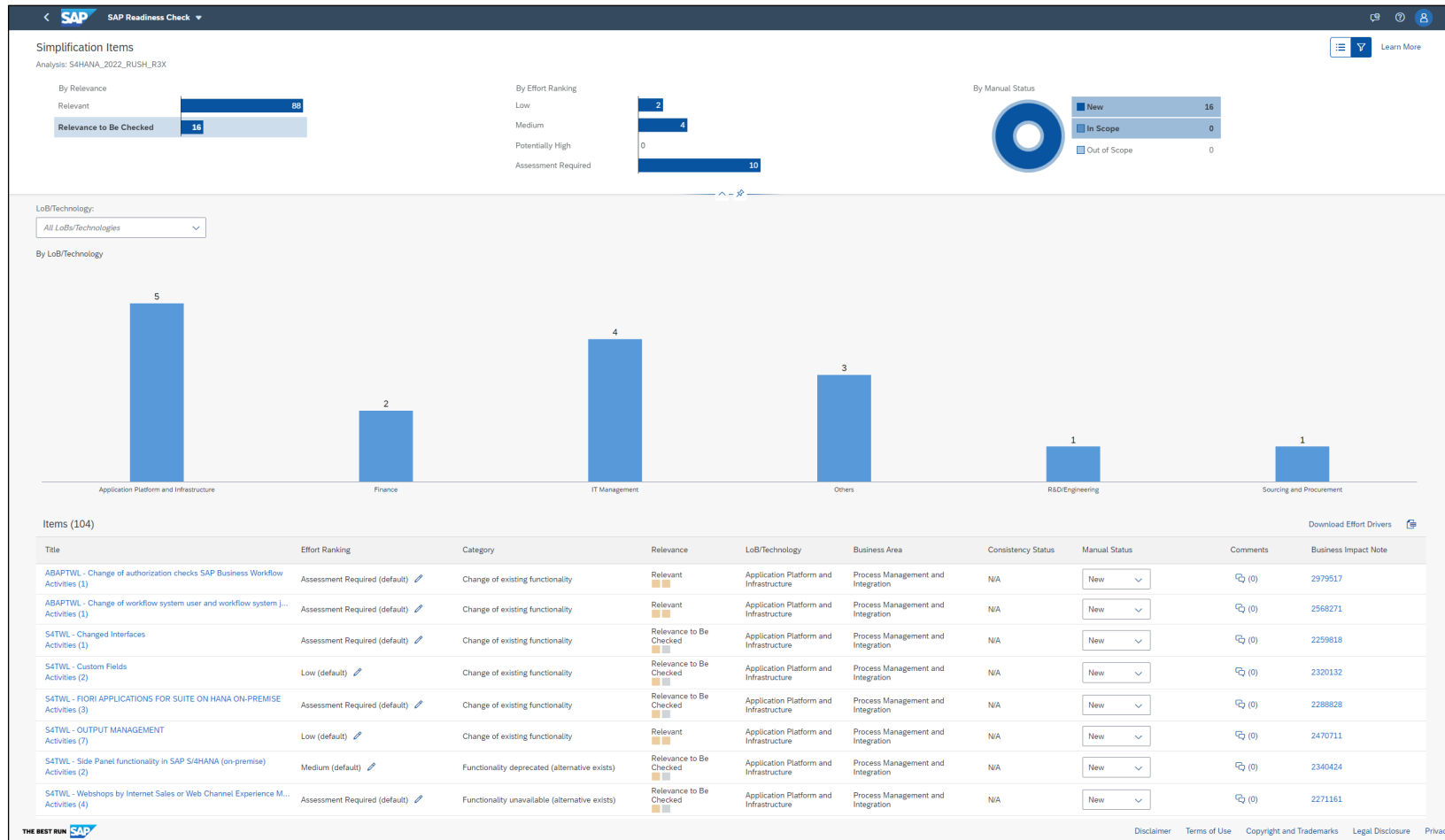


Simplification Items – Relevance To Be Checked

SIMPLIFICATION ITEMS

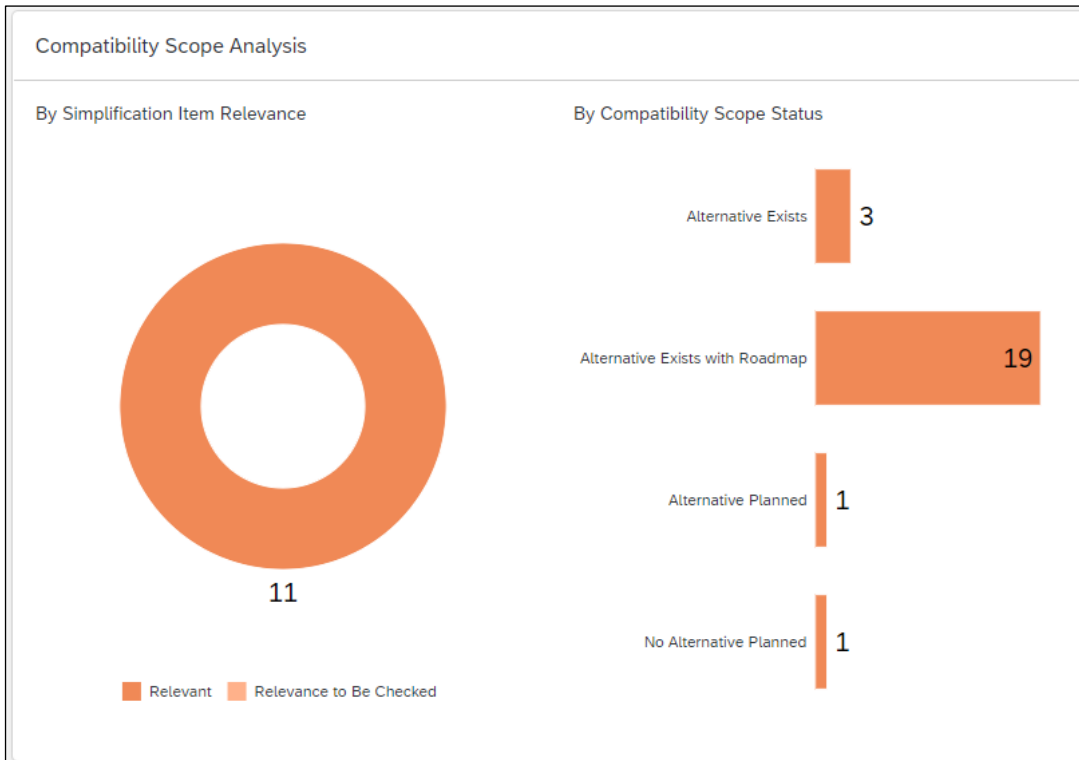
The Relevance indicates the relevance type of the corresponding simplification item:

- Relevant: The simplification item requires an immediate attention in your project.
- Relevance to Be Checked: The relevance cannot be checked automatically. A manual check of the related business impact note is required to verify if the assigned simplification items are immediately relevant for the transition. Display the S/4HANA simplification items that are relevant for your SAP ERP and reference related project activities for each item to organize project efforts.



Analyzing Compatibility Scope

SAP's compatibility packages offer customers a limited usage right to run certain classic SAP ERP solutions on SAP S/4HANA. All compatibility packages are listed in the Compatibility Scope Matrix, which can be found in SAP Note 2269324. The compatibility packages in this list cover functionality from SAP ERP core, line-of-business (LoB), or industry solutions and comprise the complete or partial scope of the related SAP Business Suite product



The aim of a compatibility package is to allow business continuity with SAP S/4HANA. If a classic SAP Business Suite product is currently part of your business processes and the Compatibility Scope Matrix, you can use the compatible version of it in SAP S/4HANA. Once the restricted use of the compatibility packages ends, you are no longer allowed to use the compatibility package solution. As a result, you will need to evaluate a migration to the designated alternative functionality. The effort for such a migration varies depending on the scope of the alternative solution.

COMPATIBILITY SCOPE ANALYSIS

To identify compatibility packages that might be relevant for you, review the simplification items presented in the table. Each item in the list is related to certain compatibility scope IDs and is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights.

Due to that, you need to migrate from the classic SAP ERP solution to its designated alternative functionality before the compatibility package license expires. In support of the next steps, the table provides the following information:

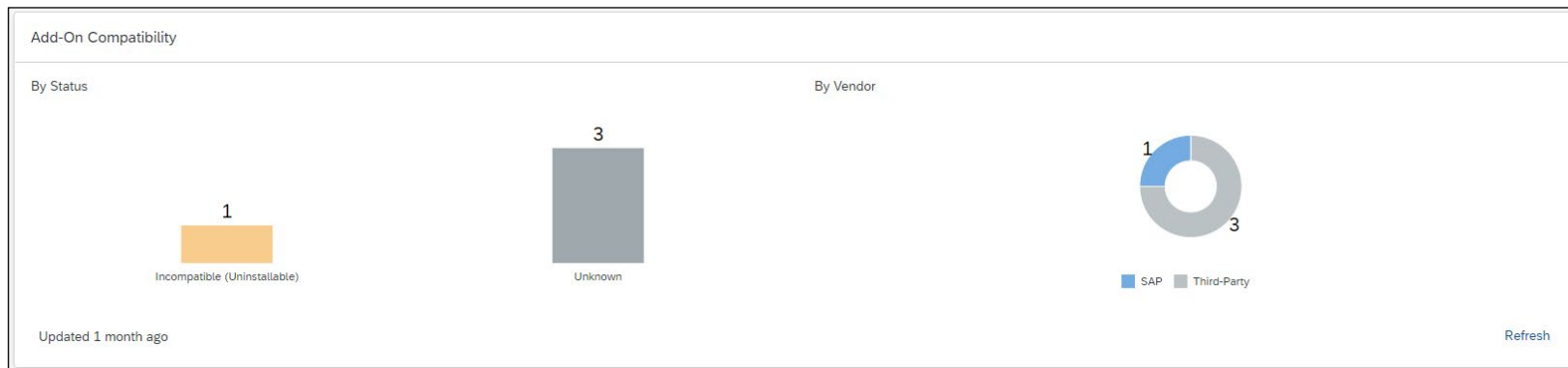
- The simplification item details from the SAP simplification item catalog can be viewed by selecting the simplification item title in the table.
- The associated business impact notes provided in the table offer further context to the simplification item and describe the recommended actions to take.
- The compatibility scope status offers information about which compatibility packages have an existing alternative.
- The side panel per table entry offers detailed information about the alternative solutions.



SAP Add-On, Bolt-on & Partner System Compatibility

According to SAP statistics, three out of five SAP ERP systems have third-party add-ons. Using the SAP Readiness Check 2.0 for SAP S/4HANA or the maintenance planner tool, at least six months prior to the project's start helps teams plan for remediating installed add-ons. The technical architecture team has access to the installed catalog of add-ons that will require additional answers to the following questions:

- Who is the add-on's vendor? Is it SAP or an independent third-party software vendor?
- Is the add-on's compatibility with SAP S/4HANA confirmed by the vendor (or certified by SAP), and if so, for which SAP S/4HANA releases?
- Is the add-on functionality still required?
- Is a corresponding functionality available in SAP S/4HANA?
- Is there an upgrade or uninstallation package available for this add-on?



SAP ADD-ONS

Compatibility of Add-Ons and Business Functions

Add-ons must be validated for compatibility with SAP S/4HANA before you can start a system conversion of your SAP ERP. The same applies for business functions. You can do the following:

- View the number and compatibility of existing add-ons and business functions.
- Manually select a compatibility category for third-party add-ons and add comments to listed items.

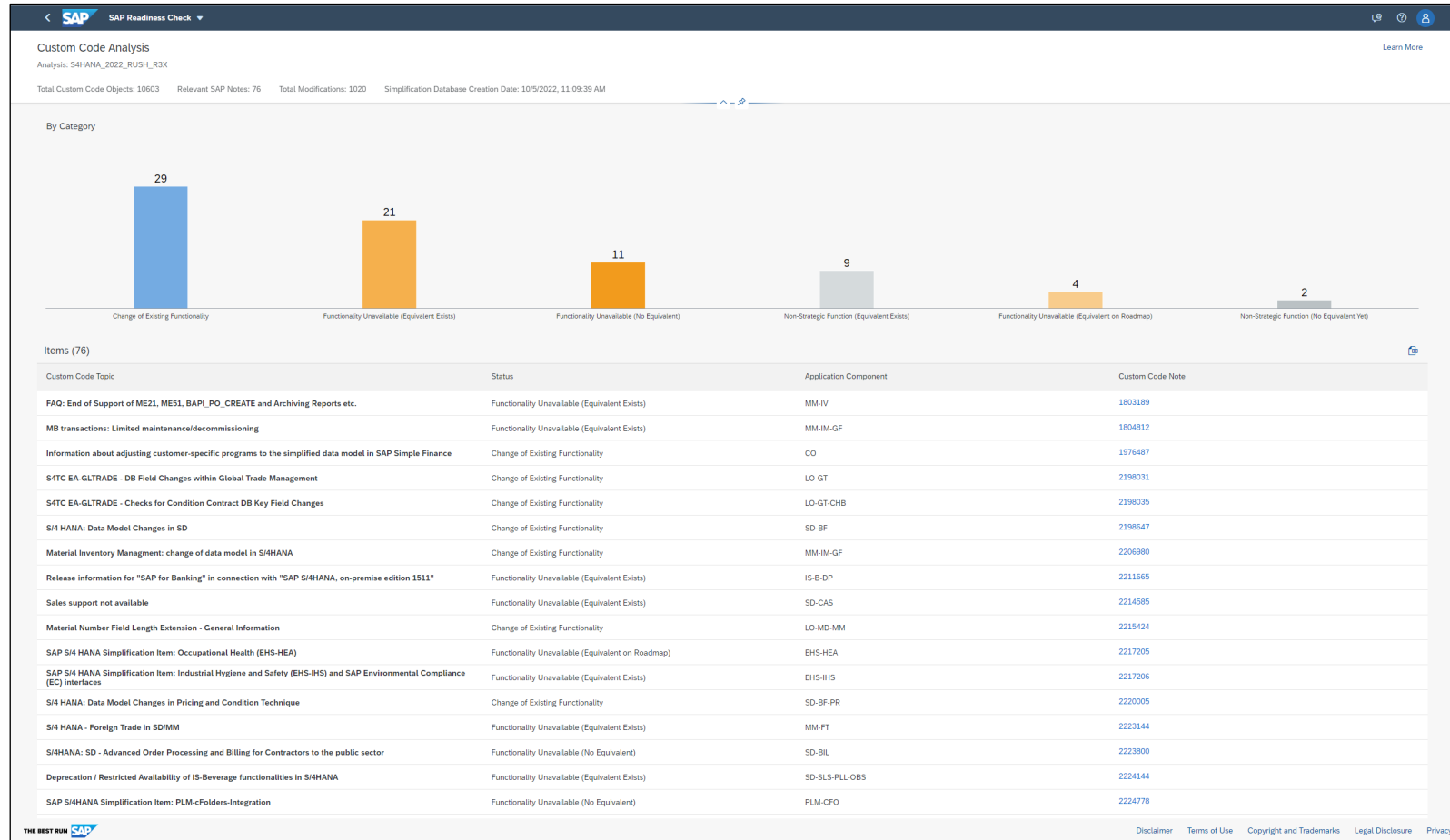
For the add-ons provided by SAP or sold through SAP's price list, you can request the current status and the compatible versions directly from SAP. For add-ons provided by other software vendors, you should establish contact with these providers and inform them about your plans to convert to SAP S/4HANA and ask for a compatible version. The sooner you do so, the more time the vendors will have to respond accordingly.

You can check the current certification status of your add-on in the Certified Solutions Directory. And depending on the answers to the questions above, formulate a plan about how to deal with each of the installed third-party add-ons.



Analyzing Custom Code

The custom code analysis shows a high-level overview of the custom code analysis executed by the SAP Readiness Check 2.0. A quick scan of your custom code base revealed that the following topics will be relevant for your custom code adaptation phase. The chart below groups the topics into the major change categories based on the categorization of the corresponding simplification items. The list allows you to review relevant topics well in advance.



CUSTOM CODE ANALYSIS

Get a high-level overview of the custom code analysis executed by SAP Readiness Check. The table shows the custom code topic together with the impact type. If the ABAP Test Cockpit (ATC) was executed in an SAP NetWeaver 7.52 system, SAP Readiness Check estimates the portion of findings that potentially have Quick Fix support. Once you have executed ATC in your SAP S/4HANA sandbox system, SAP Readiness Check can tell which findings have Quick Fix support or belong to objects that are considered out of scope for the conversion. The following features are available:

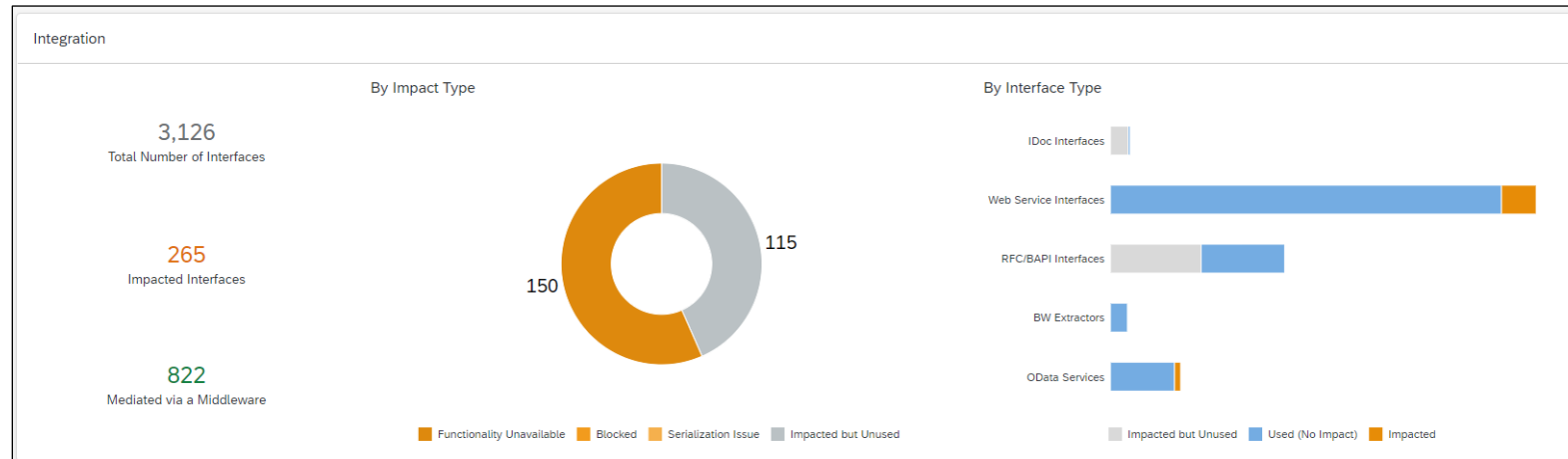
- High-level custom code analysis and impact of the custom code for each simplification item
- View which parts of your custom code refer to SAP objects that have undergone changes or have been removed in SAP S/4HANA. These changes can refer to business processes or can be technical changes.

{ ; }
JSON



Assessing Integration

For the transition to SAP S/4HANA, a selection of follow-up activities in the area of integration is required due to certain simplifications in different application areas. This section contains a list of identified interfaces and highlights the ones that are most impacted by the transition. The findings are displayed in two subsections, Interface Discovery and Impact Analysis.



INTEGRATION

Check all interfaces with the impact category Functionality Unavailable. In the Details column, you will find corresponding simplification items, business impact notes, or SAP Notes reported by the ABAP test cockpit. You might need to redesign and/or rebuild the interface, or even remove it completely from the system if it becomes obsolete in SAP S/4HANA.

If required, create a separate support incident under the respective component for each BW extractor assigned to the subcategory Not Working (Alternative Planned or No Alternative Exists). This helps you find out if old extractors can be released for you, or if and when a replacement is planned. If the replacement is not available at the time you need it, you may need to create a project-specific development to extract the required data.

Once the ABAP-test-cockpit-based custom code scan results have been uploaded to the current SAP Readiness Check analysis, review the interface impact analysis again by focusing on the impact categories Functionality Unavailable and Serialization Issue. The ABAP test cockpit results might help you identify impacted interfaces, which contain custom code that is dependent on functionality not available in SAP S/4HANA. In addition, the results might help you detect custom function modules and IDoc extensions, which are impacted by the field length extension.

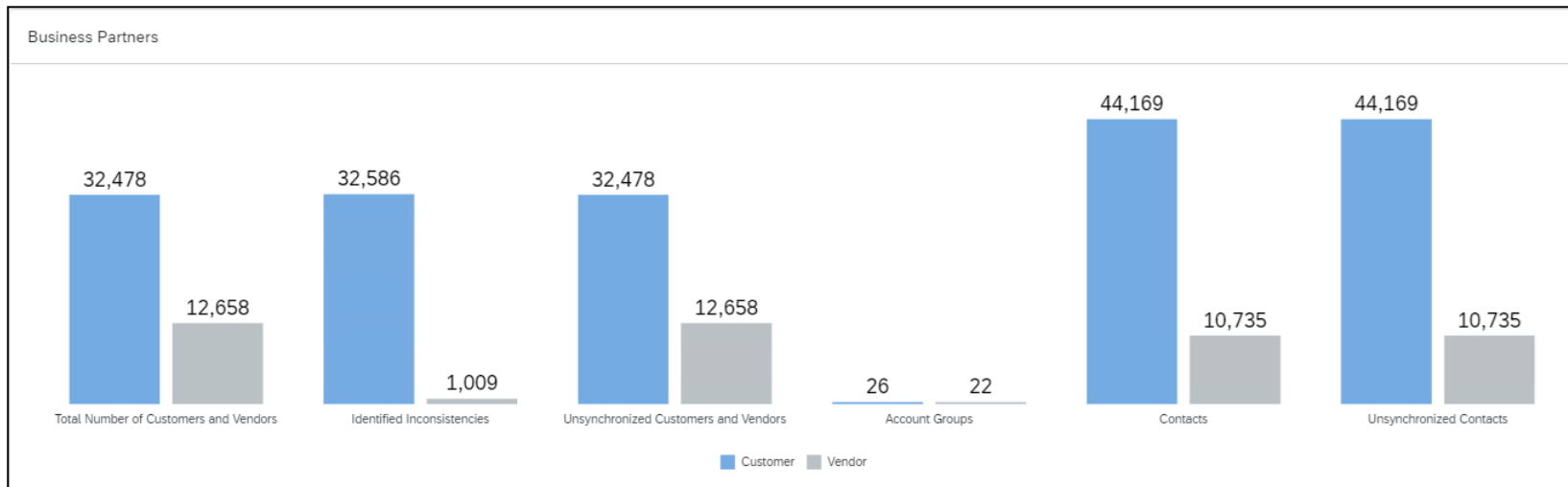
Once the interfaces identified as impacted are analyzed and adjusted or removed, continue with the testing of the most critical interfaces.



Converting to business partner CVI

Get an overview of the master data for your customers, vendors, and contacts that needs to be synchronized before your conversion to SAP S/4HANA. This topic indicates the expected efforts to activate and execute the Customer/Vendor Integration (CVI) in your SAP ERP system in order to convert your master data to SAP Business Partner in SAP S/4HANA. This topic enables you to see the following:

- The total number of your customers, vendors, and related contacts with the identified data quality issues (inconsistencies) in your master data
- The number of unsynchronized customers and vendors in the backlog for CVI in your SAP ERP system
- The number of unsynchronized contacts that need to be synchronized, together with the customers and vendors that are linked to the contacts
- The number of “Account Groups”, which indicates the degree of data complexity
- The number of customer-specific enhancements for the most important tables



BUSINESS PARTNER CVI

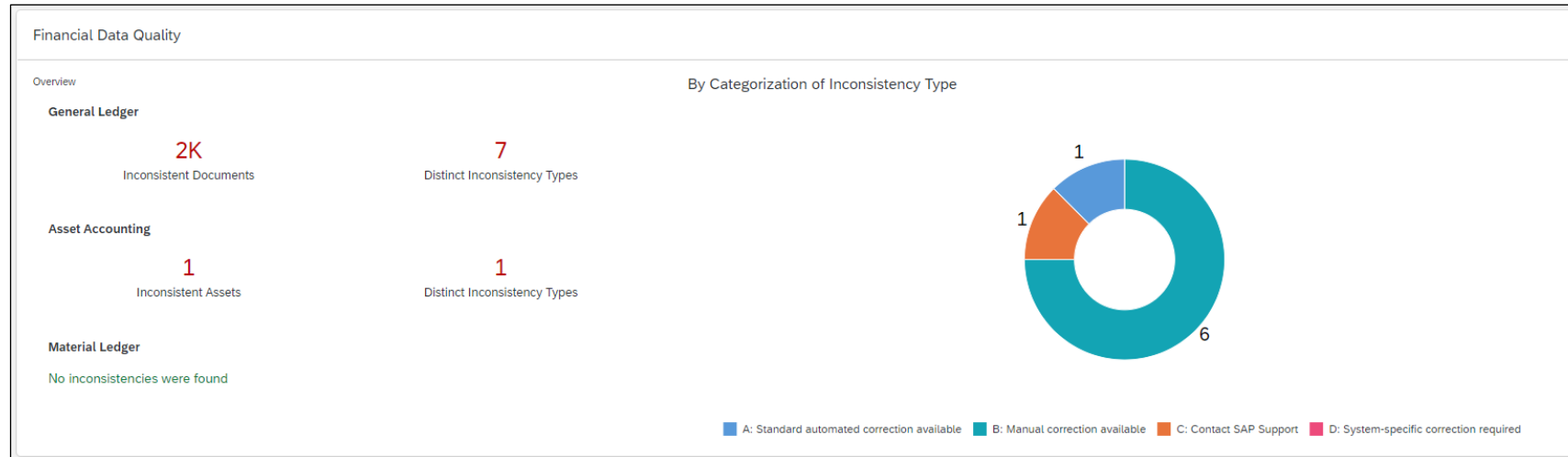
Get an overview of the master data for your customers, vendors, and contacts that needs to be synchronized before your conversion to SAP S/4HANA. This topic indicates the expected efforts to activate and execute the Customer/ Vendor Integration (CVI) in your SAP ERP system in order to convert your master data to “Business Partner” in SAP S/4HANA. This enables you to see the following:

- The total number of your customers, vendors, and related contacts with the identified data quality issues (inconsistencies) in your master data
- The number of unsynchronized customers and vendors in backlog for CVI in your SAP ERP system
- The number of unsynchronized contacts that need to be synchronized, together with the customers and vendors that are linked to the contacts
- The number of “Account Groups” that indicate the degree of data complexity
- The number of customer-specific enhancements linked to your most important tables



Financial Data Quality

Before your conversion, we recommend that you check the quality of your financial data, analyze possible inconsistencies, and decide how to resolve them. Please be aware that the Financial Data Quality checks are client specific. This implies that all analysis results belong to a specific system client.



This section displays the uploaded results of the FIN_CORR_RECONCILE, FIN_AA_CORR_RECONCILE, and FIN_ML_CORR_RECONCILE reports that were executed in the Finance modules General Ledger (FI-GL), Asset Accounting (FI-AA), and Material Ledger (ML) in your system. In addition, other essential indicators are shown, providing an overview of your financial system. The findings are summarized by the Finance module on the General Ledger, Asset Accounting, and Material Ledger tabs, each of which contains dedicated sections.

FINANCIAL DATA QUALITY

The Financial Data Quality check within SAP Readiness Check provides insights into general ledger, asset accounting, and material ledger data quality and inconsistencies.

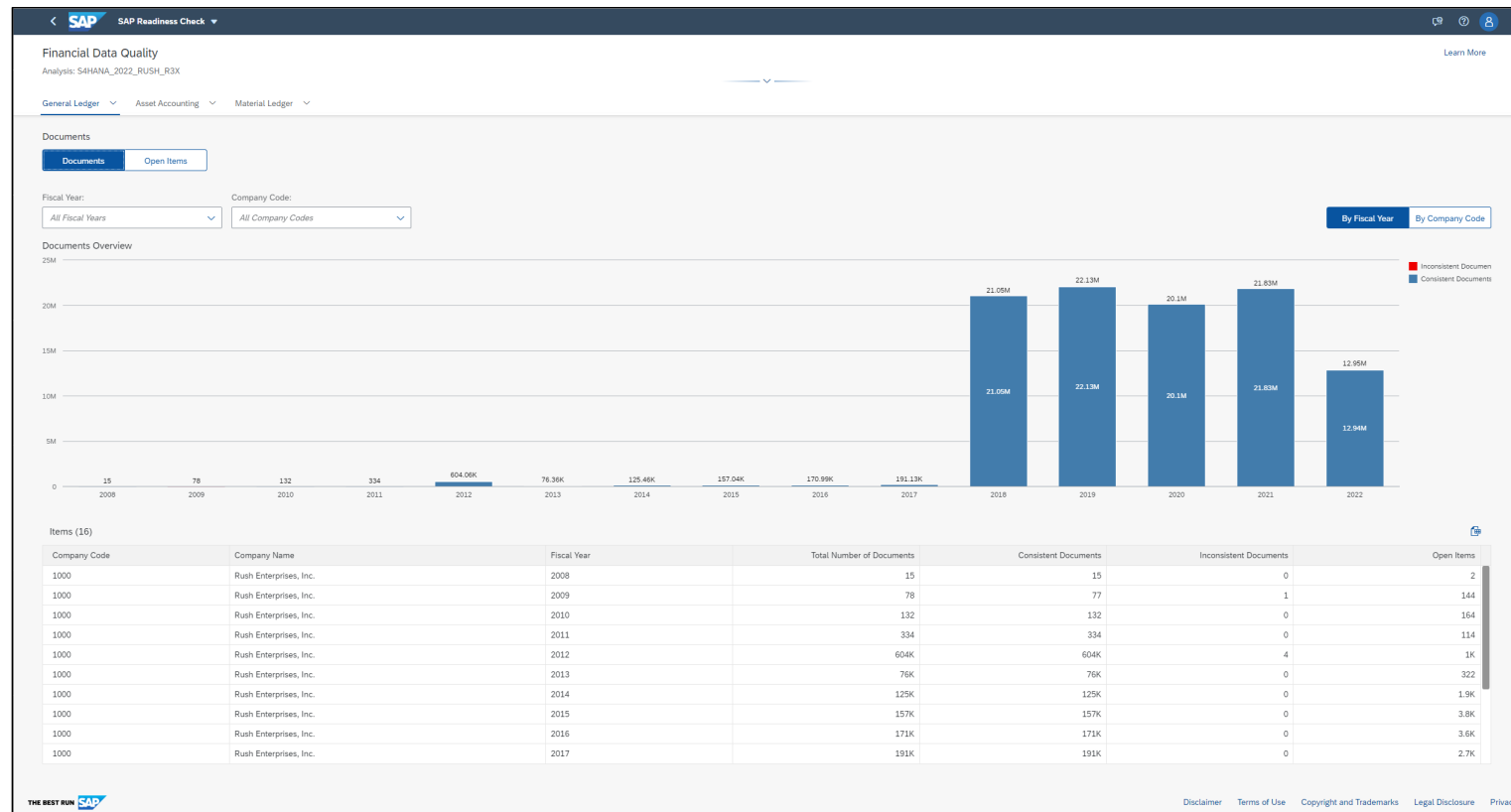
The Financial Data Quality check tile and detail pages display the findings from the analysis. It is critical to identify inconsistencies in your financial data and resolve them before or as part of a conversion project to SAP S/4HANA. Grouped by finance area, the detailed view includes:

- Identification of inconsistency hotspots by company code and fiscal year (for all three finance areas) and by valuation area and fiscal year (only for material ledger)
- Grouping of inconsistencies by message type
- Classification of inconsistency message types to assist with remediating inconsistencies
- Summary of key facts and figures for each finance area



Financial Data Quality – General Ledger

General Ledger is a comprehensive view of external accounting. Including and collecting all business transactions for primary postings and settlements from Management Accounting into a system that is integrated into your business ensures that accounting is complete and reconciled at all times.



FINANCIAL DATA QUALITY - GL

General Information: First, relevant information about the system is provided to the customer.

Inconsistencies: The identified inconsistencies related to FI-GL are displayed by fiscal year and company code. This helps you identify any outliers, that is, fiscal years and company codes with more issues compared to other fiscal years and company codes. The identified inconsistencies are assigned to one of the following categories:

- A: A standard automated correction is available – SAP Note 2956096. Inconsistencies can be analyzed and potentially resolved with the help of the FIN_CORR_MONITOR report.
- B: A manual correction is required; correction instructions are available – see SAP Knowledge Base Article 2714344.
- C: An SAP support specialist is required for a deeper analysis and advice on the resolution. In certain cases, a resolution may require specialized SAP services and imply surcharges.
- D: One or more system-specific corrections are required.

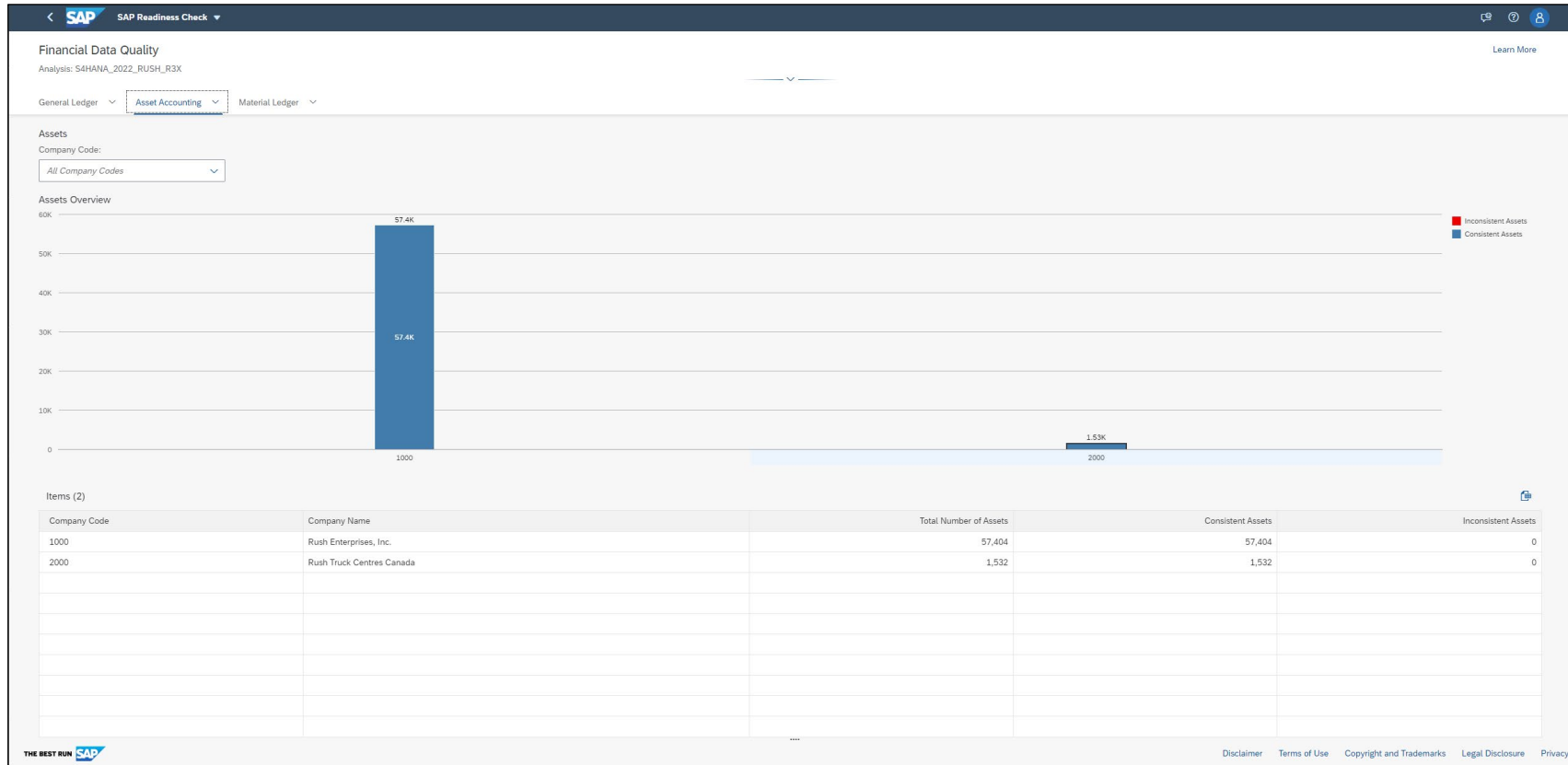
Documents: You can filter the identified documents and open items by fiscal year and company code. The number of open items in financial documents per fiscal year and company code may reflect unfinished business transactions.

Facts and Figures: You can find an overview of the influencing factors that usually have an impact on the required effort, duration, and cost for the data cleansing.



Financial Data Quality – Asset Accounting

Asset Accounting is a subledger accounting module in Financial Accounting in which the business transactions for fixed assets are entered.



FINANCIAL DATA QUALITY - ASSETS

General Information: First, relevant information about the system is provided to the customer.

Inconsistencies: The identified inconsistencies related to FI-AA are displayed by fiscal year and company code. This helps you identify any outliers, that is, fiscal years and company codes with more issues compared to other fiscal years and company codes. The identified inconsistencies are assigned to the categories mentioned above for the Inconsistencies section on the General Ledger tab. Note that the same category descriptions apply, except for B inconsistencies: For B inconsistencies related to FI-AA, see instructions for manual corrections in SAP Note 3038014.

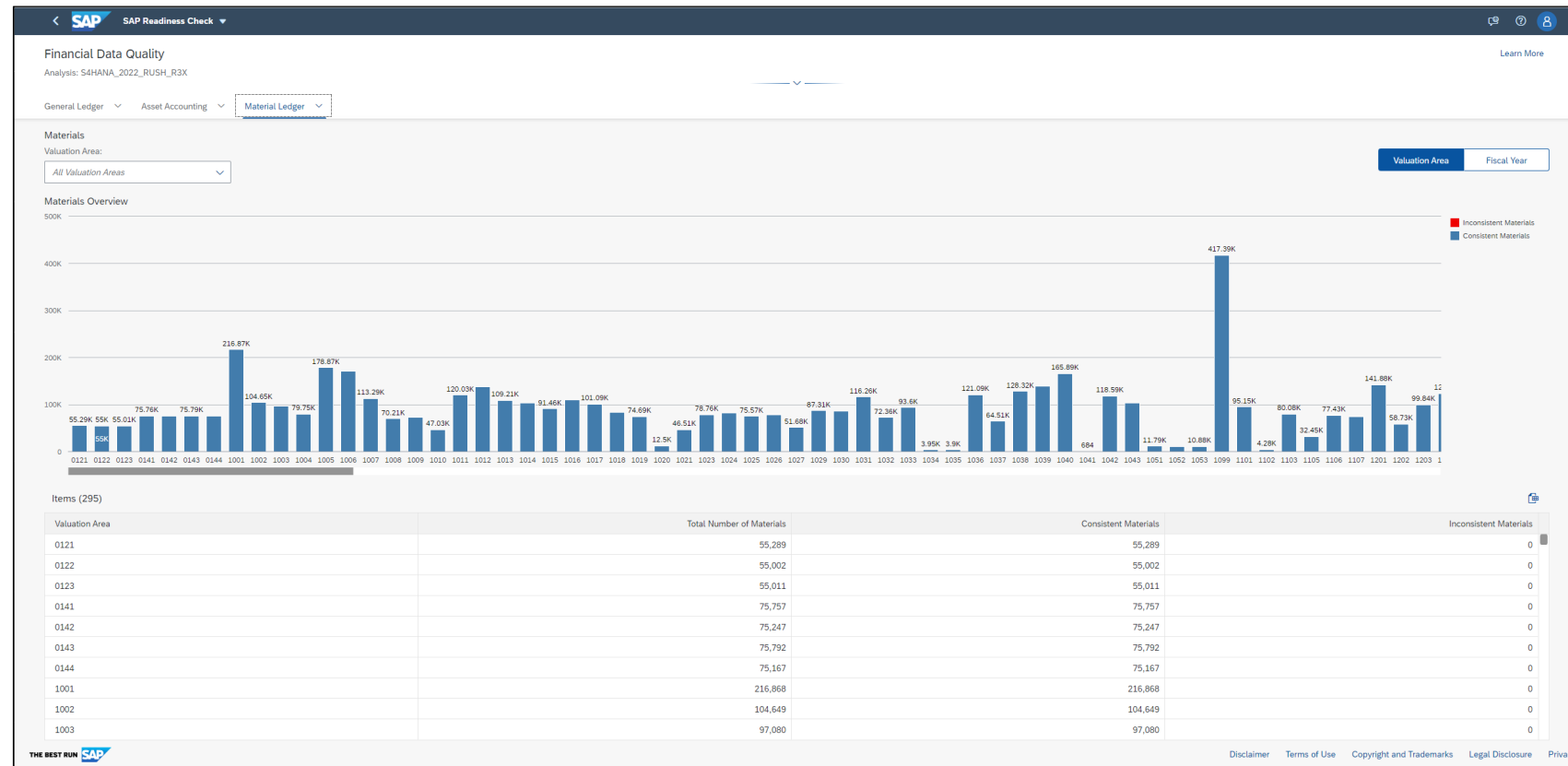
Assets: The identified main assets are displayed by company code and can be filtered accordingly.

Facts and Figures: You can find an overview of the influencing factors that usually have an impact on the required effort, duration, and cost for the data cleansing. Identification of inconsistency hotspots by company code and fiscal year (for all three finance areas) and by valuation area and fiscal year (only for material ledger).



Financial Data Quality – Material Ledger

Material Ledger is a finance module that is used to manage material inventories. Inventories can be managed in multiple currencies and multiple valuations. It is fully integrated into the general ledger (universal journal). The material ledger is the basis of actual costing. Actual costing works with the same currencies and valuations as those managed in the material ledger. It allows you to evaluate all materials managed in inventory, work in process, and cost of goods sold at actual costs. Data conversion activities will not activate actual costing if it was not active in the source system, since actual costing is still optional in SAP S/4HANA.



FINANCIAL DATA QUALITY - ML

General Information: First, relevant information about the system is provided to the customer.

Inconsistencies: The identified inconsistencies related to ML are displayed by fiscal year and valuation area/company code. This helps you identify any outliers, that is, fiscal years and valuation areas/company codes with more issues compared to others. The identified inconsistencies are assigned to the categories mentioned above for the Inconsistencies section on the General Ledger tab. Note that the same category descriptions apply, except for B inconsistencies: For B inconsistencies related to ML, see instructions for manual corrections in SAP Note 2389581.

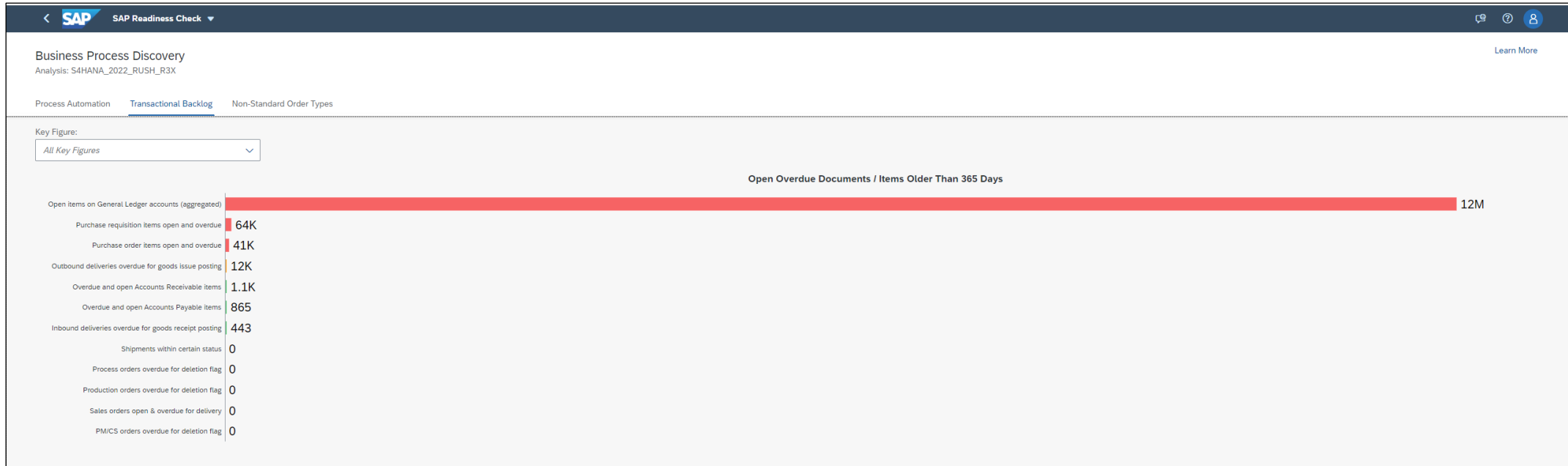
Materials: The identified materials are displayed by valuation area and fiscal year and can be filtered accordingly.

Facts and Figures: You can find an overview of the influencing factors that usually have an impact on the required effort, duration, and cost for the data cleansing.



Business Process Discovery – Data Inconsistencies

The SAP S/4HANA Readiness Check 2.0 report provides analysis of your SAP ECC 6.x system readiness for S/4HANA conversion. The below Business Process Discover section of the report contains data inconsistencies per functional area that must be remediated prior to S/4HANA conversion.

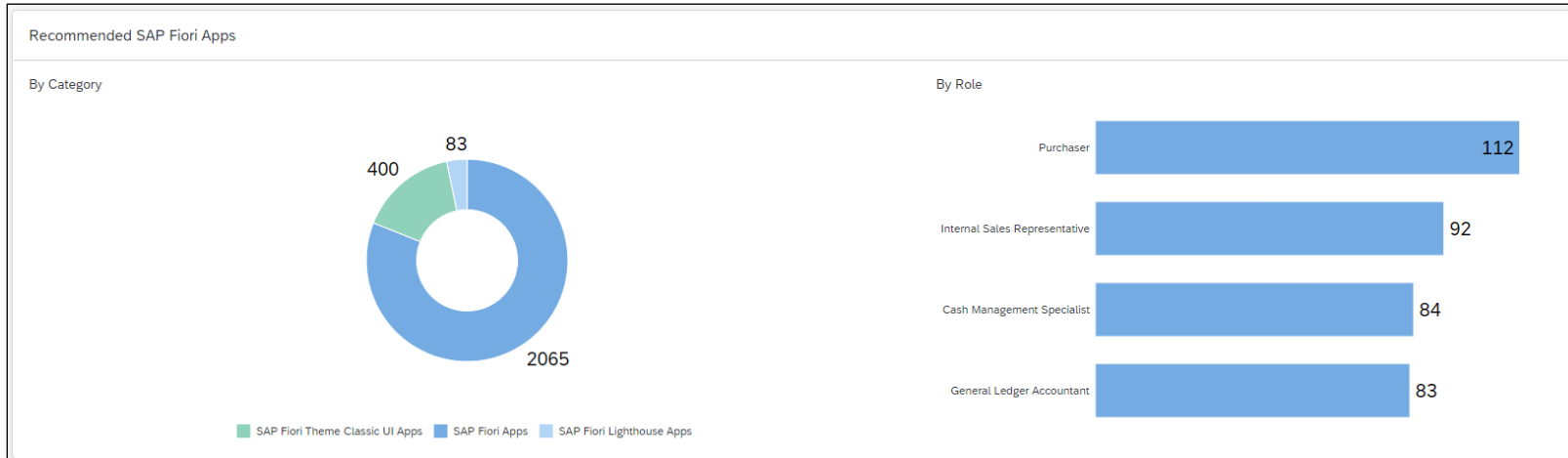


It is common for many SAP customers to have open items in their SAP ERP systems that span fiscal years in finance, sales and distribution, materials management and production planning, for example. In addition to providing new features and functionality as well as technological advances, S/4HANA conversions also provide the opportunity to cleanse historic data and archive past fiscal year data to reduce common, large SAP ERP tables that have not

been maintained. Additionally, data cleanup is the required prerequisite to data archiving, as open items cannot be archived and is critically important to new S/4HANA conversions. The new in-memory platform is sized by SAP HANA database size and places data in-memory for rapid retrieval and presentation to business users. When you embark on a long journey, you usually don't pack heavy!

SAP Fiori Apps

When converting to SAP S/4HANA, SAP Fiori should always be a part of the conversion project. It is the primary user experience that enables the user to access the innovations and functionalities available in SAP S/4HANA.



SAP FIORI APPS

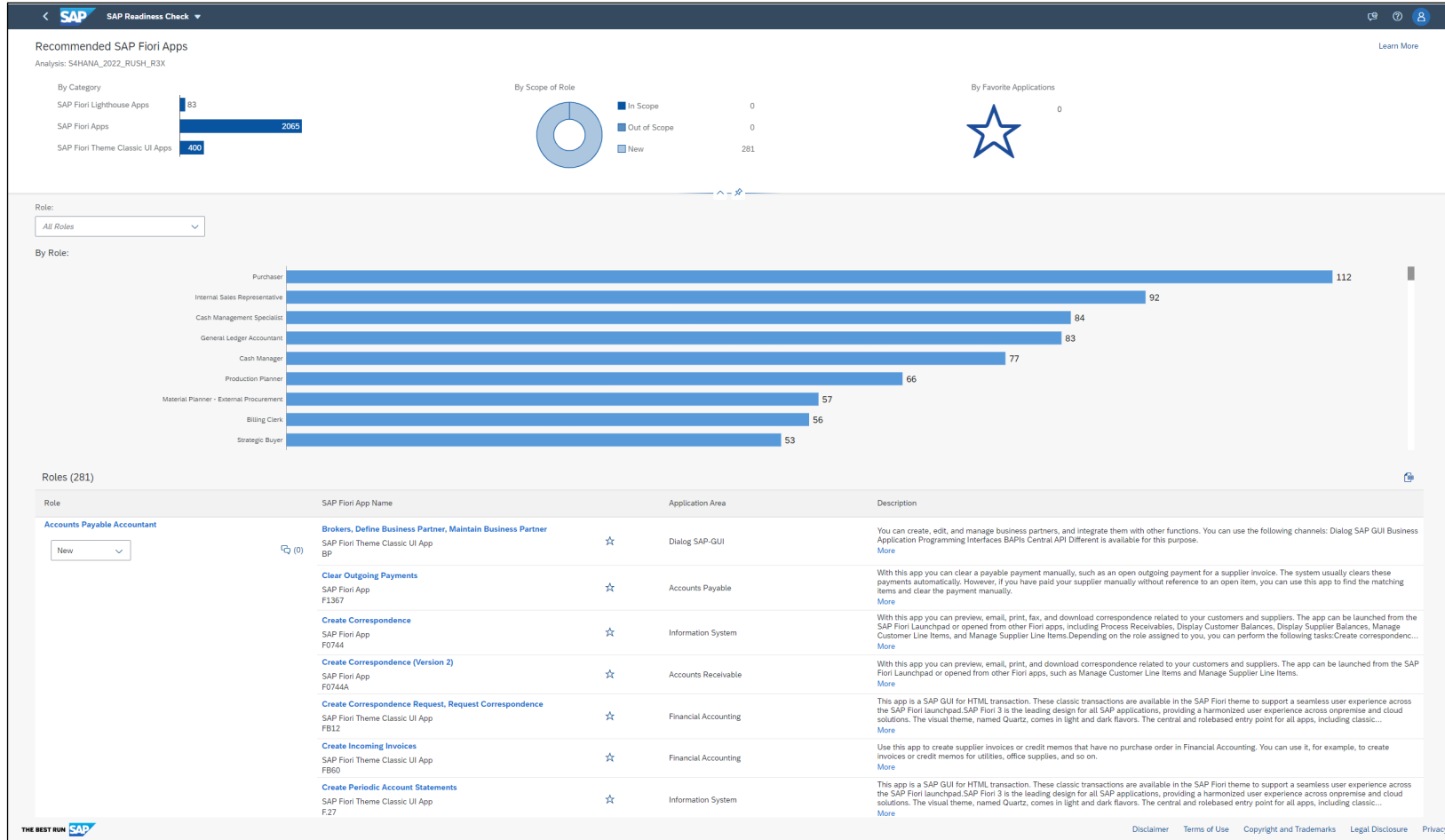
In this section, you can find the SAP Fiori apps that have been identified as relevant for your business. The identification is based on the business processes and transactions used in the analyzed SAP ERP system. The recommended SAP Fiori apps are grouped by business role and assigned to one of the following categories:

- **SAP Fiori Lighthouse Apps:** These apps are part of a collection of SAP Fiori apps that are included in SAP Fiori Lighthouse scenarios. Apps in this category offer an immediate business benefit to the users of SAP S/4HANA when compared with SAP ERP. In addition to the innovative user experience, these apps support tasks and processes that are not supported in SAP ERP. They simplify and increase the efficiency of tasks and processes for the user.
- **SAP Fiori Apps:** These apps are platform-independent web apps that were built with SAPUI5 for mobile and desktop devices, applying the SAP Fiori user experience design principles.
- **SAP Fiori Theme Classic UI Apps:** These apps are based on one of the classic UI technologies (SAP GUI for HTML transactions, Web Dynpro for ABAP applications, or Web Client UIs). They are available in the SAP Fiori theme to support a seamless user experience across the SAP Fiori launchpad.



SAP Fiori Apps

Out of all identified SAP Fiori apps that are relevant for you, we recommend implementing at least the SAP Fiori Lighthouse apps, which provide an immediate business benefit.



SAP FIORI APPS

For more information about each role and related SAP Fiori apps, choose a role or app name. This will guide you to the SAP Fiori apps reference library.

To start planning your conversion, you can focus on the following questions:

- Which apps will provide essential business value to meet sponsor and stakeholder expectations?
- Which users and/or processes are ready for innovation?
- How will the innovations be deployed (device types, access via internet, and so on)?
- Are there any holistic business roles inside your enterprise? This is not necessarily related to the current ABAP security roles but to activities performed in the business processes defined inside the system.

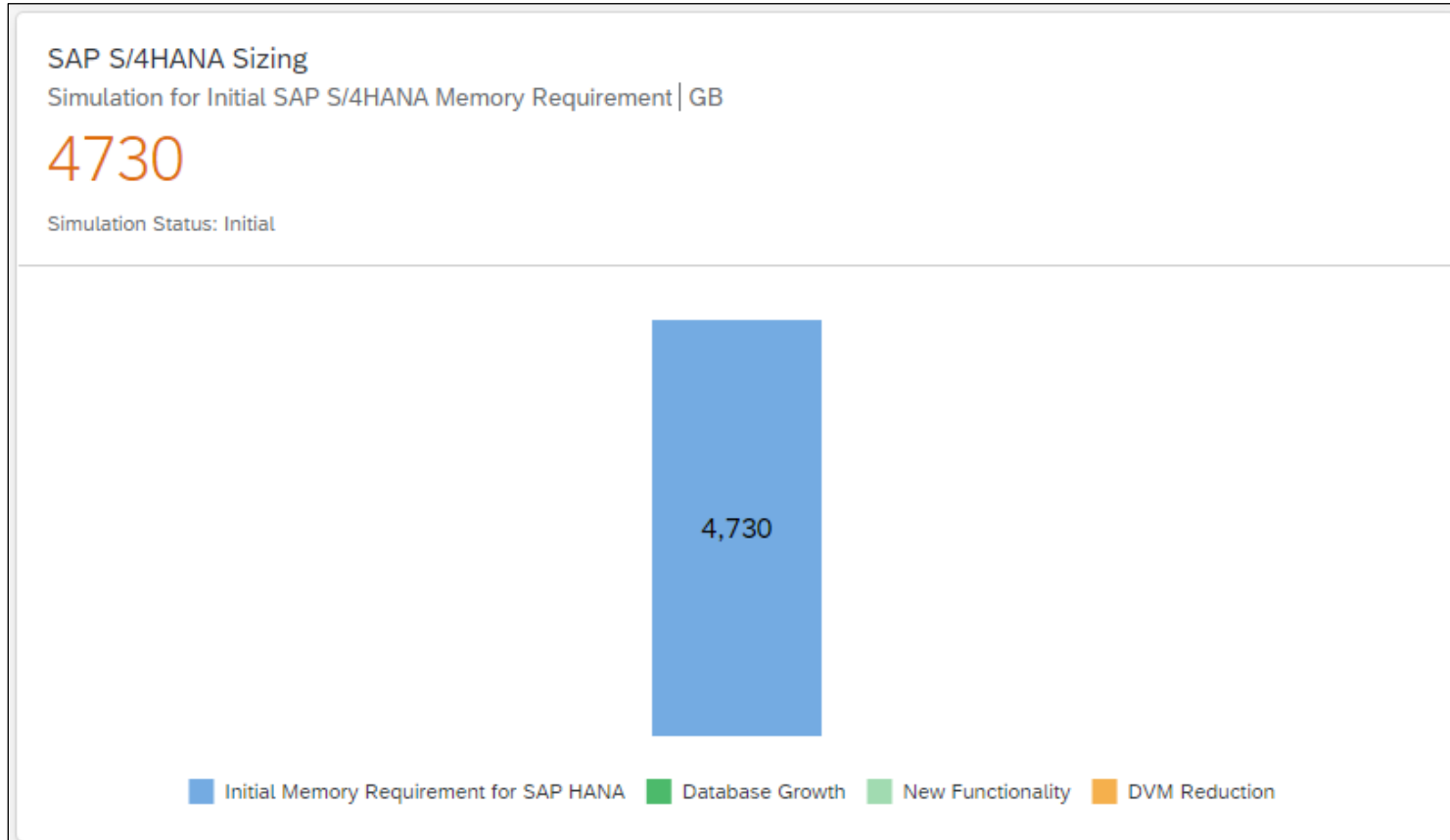
If you already have an SAP Fiori implementation, you may need to migrate the existing apps to SAP S/4HANA.

For guidance on the implementation of apps that are related to specific business roles, see Rapid Activation of SAP Fiori via Task List. Note that an activation of all SAP Fiori apps related to specific business roles is required to fully benefit from the corresponding innovations. In addition, an activation of all role-related apps enables an app-to-app navigation.



SAP S/4HANA Sizing

To calculate the right target SAP S/4HANA system size, you need to take several influencing factors into account. On the one hand, this includes the initial target SAP S/4HANA size calculated from your current SAP ERP database size. On the other hand, this includes future database growth, possible data volume reduction in your SAP ERP system, and potential new functionalities that need to be added manually. This section enables you to run a sizing simulation and provides information about your sizing values and data volume management potential.



SAP S/4HANA SIZING

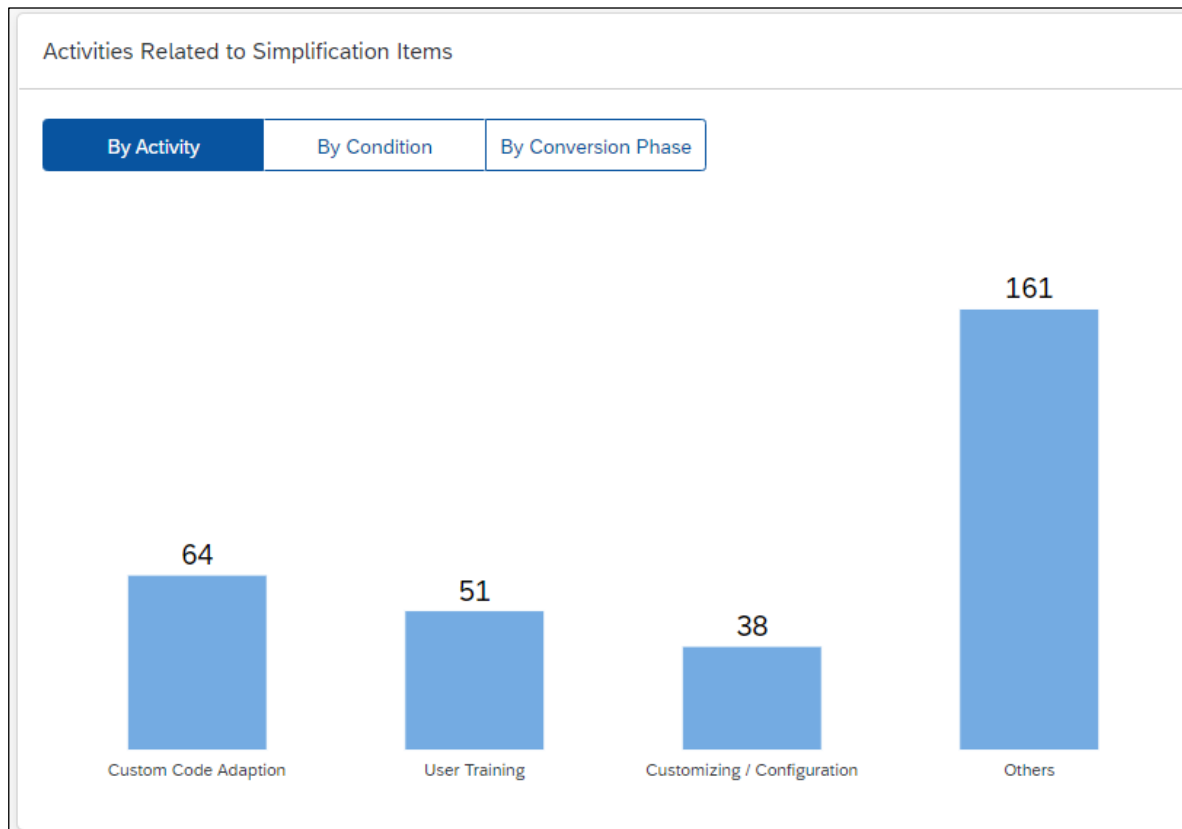
To convert to SAP S/4HANA, you can perform a target system sizing, taking into consideration future data growth, potential new requirements, and archiving. Archiving can help to save space and reduce the required target hardware size. You can do the following:

- Perform an SAP S/4HANA sizing simulation, taking into consideration the initial size, future database growth, potential new business requirements, and data volume management activities.
- Preview how the sizing requirements will change after a data cleanup.
- Access improved visualization of sizing content.
- List the largest database tables in more detail.
- View the size of your existing database and the archiving potential, based on the top database tables of your source system.



Activities Related to Simplification Items

When transitioning to SAP S/4HANA, simplification items involve various activities that are relevant for specific roles and/or responsibilities within your organization. This section shows project-related activities for the simplification items that are relevant for your transition. The activities are derived from the business impact note of the corresponding simplification item and various other sources.



For each activity, an assignment to a conversion phase and a condition is provided, enabling you to explore each area and filter accordingly. This means that you can focus on the most important activities first at the start of your transition project, such as mandatory business decisions. In addition, you can identify activities that can be performed well in advance of the actual transition project and allocate them to the right departments in your organization.

ACTIVITIES RELATED TO SIMPLIFICATION ITEMS

To support the development of a high-level project plan, SAP Readiness Check for SAP S/4HANA presents proposed project activities to address the relevant simplification items and the in-scope compatibility packages.

- See related project activities for identified simplification items to organize project efforts.
- Focus on the most important activities first, for example, which business decisions are to be made and which tasks can be performed now on the analyzed SAP ERP system.
- Filter for mandatory and conditional activities to ease project planning.
- Review activities associated with in-scope compatibility packages.



Activities Related to Simplification Items

ACTIVITIES RELATED TO SIMPLIFICATION ITEMS

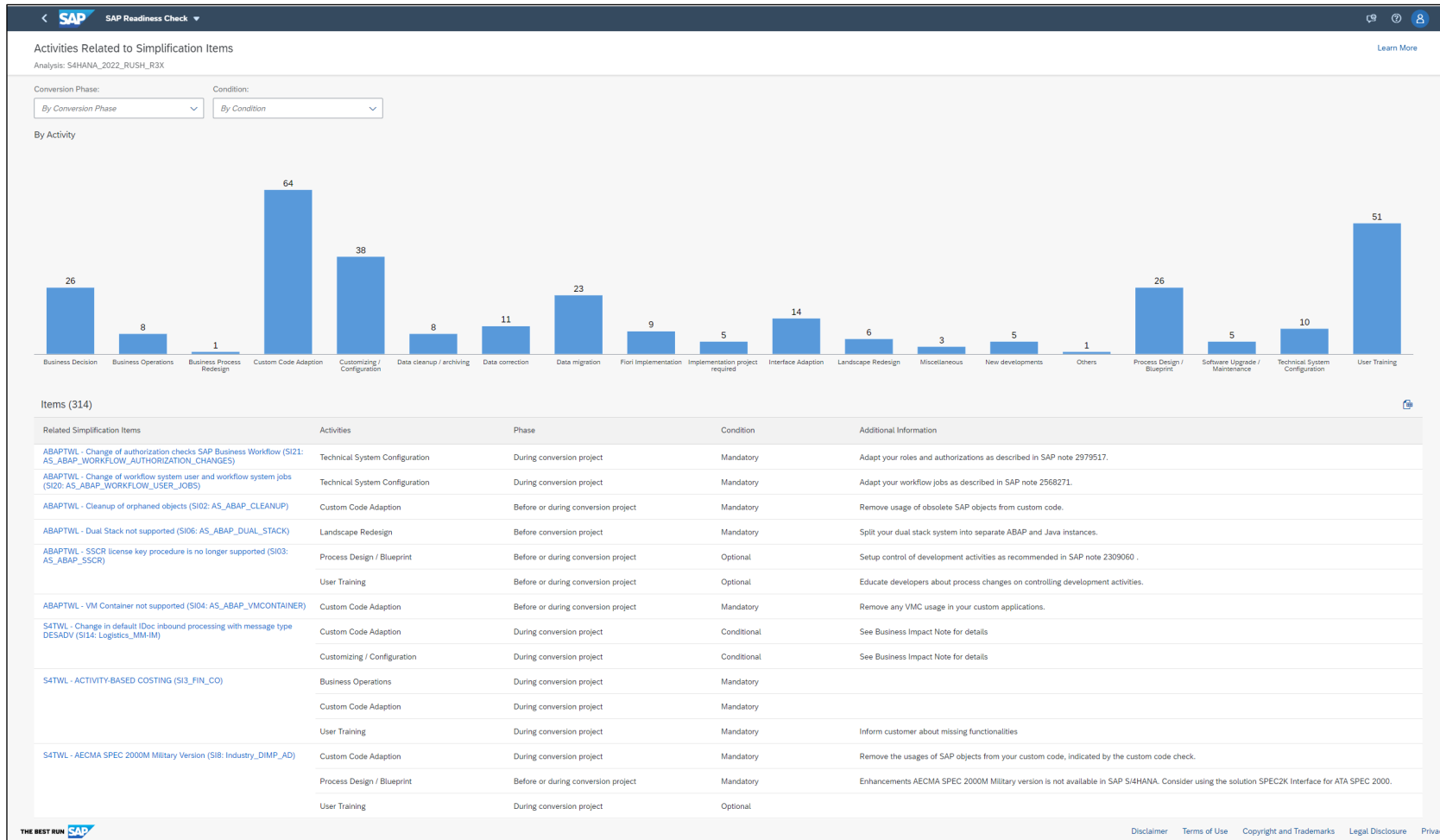
To get an overview of the project-related activities, you can filter by the following conditions:

- Conditional activities: activities that depend on prerequisites defined in the detail information of the simplification item.
- Mandatory activities: activities that need to be performed in any case.
- Optional activities: activities that are related to simplification items, but their project relevance is subject to business decisions.

In the next step, add the selected activities to the work breakdown structure of your conversion project. Include them in the project schedule, based on the assigned condition, conversion phase, and their dependency on other activities.

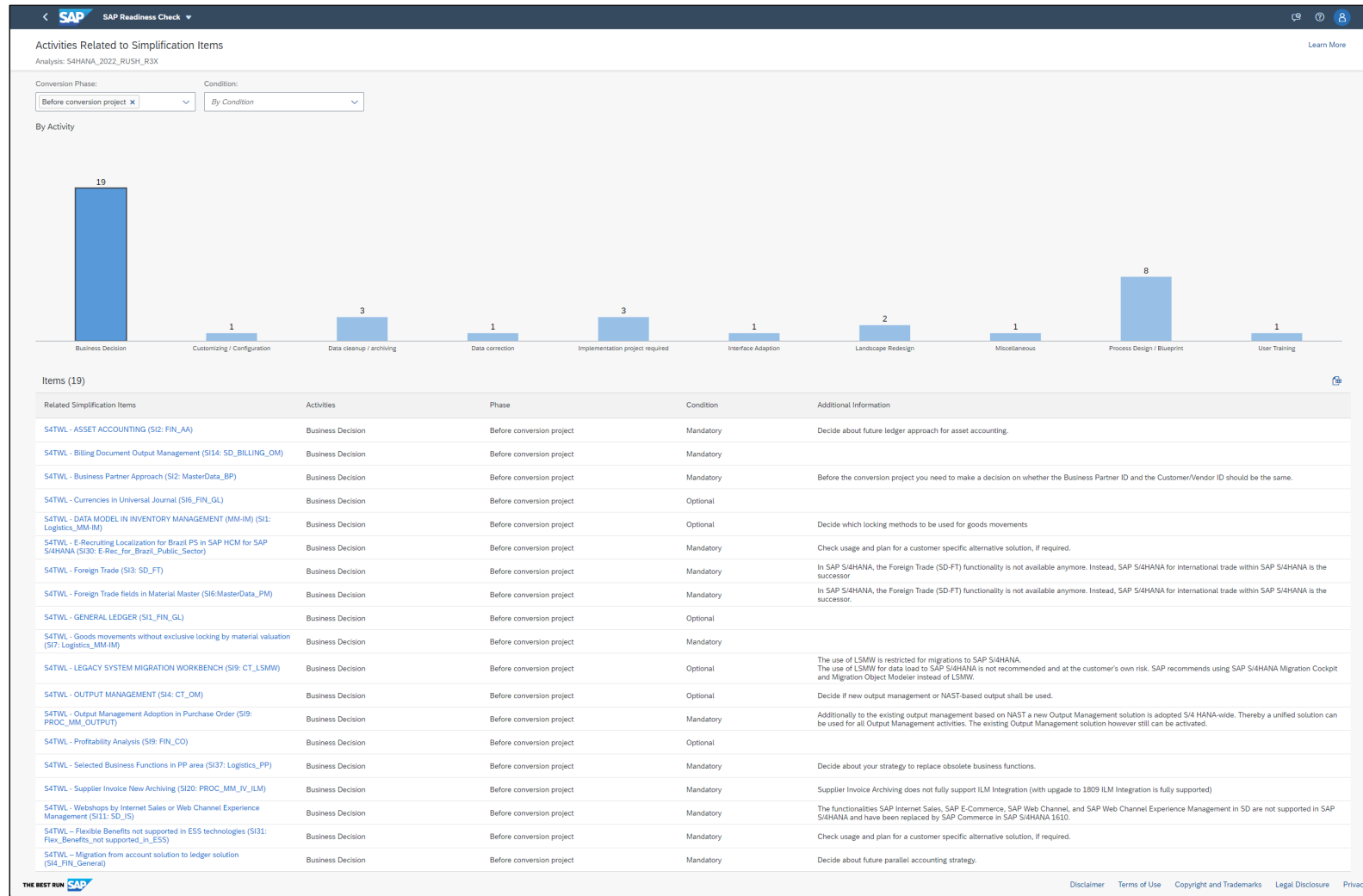
For more information, take the following steps:

- Choose the simplification item title in the table to see the simplification item in more detail.
- See SAP's simplification item catalog for all simplification items. See related project activities for identified simplification items to organize project efforts.



Activities Related to Simplification Items

WHAT ACTIVITIES MUST AND SHOULD BE DONE BEFORE THE CONVERSION PROJECT?



ACTIVITIES RELATED TO SIMPLIFICATION ITEMS

To support the development of a high-level project plan, SAP Readiness Check for SAP S/4HANA presents proposed project activities to address the relevant simplification items and the in-scope compatibility packages.

- See related project activities for identified simplification items to organize project efforts.
- Focus on the most important activities first, for example, which business decisions are to be made and which tasks can be performed now on the analyzed SAP ERP system.
- Filter for mandatory and conditional activities to ease project planning.
- Review activities associated with in-scope compatibility packages.





Start by running the S/4HANA Readiness Check. Align enterprise-wide business and IT objectives and stakeholders that will light your way to the intelligent enterprise.



Architect your modernizations and new S/4 intelligent capabilities to maximize business value and accelerate your start. Select the best-fit strategy for your enterprise—system conversion, selective data transition, or new implementation.



Evaluate the SAP Readiness Check, analyze your simplifications, and blueprint your renovations that will help you narrow your S/4 transition strategy decision.



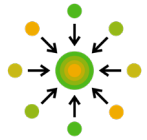
Begin your journey assured that uncertainty is in your rear view mirror. Execute, manage, control, and monitor each track with confidence that success is your only destination.



Ready your company for the transformation by executing renovation activities and mapping out your selected S/4 adoption approach—assuring when its time to start, you'll have a smooth journey.

Assessing your digital innovation opportunities

Discovering the new intelligent capabilities and modeling the modernizations that will define your journey to the intelligent enterprise.



ECC Modernizations that Accelerate S/4 Transition

Explore modernizations in your existing ECC system that will improve business efficiencies, prepare your user community for S/4 adoption, and reduce overall organization change impacts that result in S/4HANA success.



S/4HANA Simplifications and Improvements

Evaluate, compare, and contrast current ECC feature/functionality with the new ways of working in S/4.



S/4HANA New Intelligent Functions and Capabilities

Discover the new intelligent S/4 functions, features, and capabilities that can drive business improvements through new digital business models.



Enterprise and Embedded Analytics

Understand the new S/4 enabled virtual data model and the embedded power of reporting and analytics. Take advantage of the SAP HANA database and Fiori user-based productivity enhancements. Discover how new augmented and predictive analytics based on machine learning will redefine the Insight-To-Action lifecycle.



Cloud Enablement Strategies

Assess the benefits of migrating on-premises infrastructures to cloud hyperscalers, such as AWS, Azure and Google Cloud to achieve quantifiable business value in the areas of resiliency, agility, cost savings, and staff productivity. Understand the pros and cons of RISE WITH SAP versus Partner/Customer-led models.



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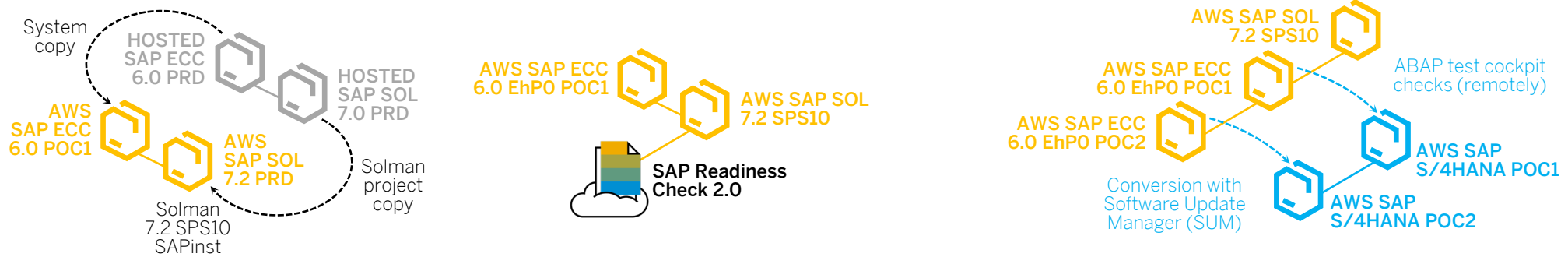
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Preparing for the transition using a Proof-of-Concept



WAVE 1

OBJECTIVES

- Prove portability and architecture
- Prove technical capabilities and accessibility of AWS Cloud
- Initiate strategic use of Solution Manager for application maintenance

WAVE 2

OBJECTIVES

- Ready ECC PoC1 for service check points
- Run S/4HANA Readiness Check
- Evolve technical architecture build plan

WAVE 3

OBJECTIVES

- Mirror ECC PoC1 to create ECC PoC2
- Upgrade new mirror copy of ECC PoC2 to create S/4HANA PoC and document technical S/4HANA buildout and remediation steps
- Execute functional confirmation of ECC PoC1 across workstreams
- Perform Fit/Gap Analysis across workstreams using S/4HANA Readiness Check inputs and S/4HANA PoC and document digital improvements and new business functionality 'wish lists'
- Assess Solution Manager use strategy for ongoing system conversions

SAP AWS Cloud migration business benefits



Migrating on-premises infrastructure to AWS achieves quantifiable business value in the areas of resiliency, agility, cost savings, and staff productivity. Applications migrated to AWS at least 12 months ago achieve the following post-migration changes in performance and value.



Cost Reduction

- Pay-per-use, consumption-based billing
- Reduced or eliminated CapEx
- Shared allocation of management and operations

✓ **20%** reduction in total technology infrastructure costs



Reliability and Security

- Multi-tenant and dedicated options
- Secure and compliant solutions
- Highly available resilient and redundant infrastructure

✓ **54%** reduction in outages
✓ **45%** decrease in security-related incidents



Time-to-Value

- Rapid delivery of services
- On-demand capacity (flexibility)
- Dramatically reduce procurement lead times

✓ **43%** decrease in time to market for new application features or functionality



Business Agility







- No hardware lifecycle management
- SLAs match the solution to the business
- Respond to changing market conditions

✓ **66%** increase in administrator productivity.
✓ **29%** increase in staff focus on innovation








Source: The Hackett Group, The Business Value of Migration to Amazon Web Services, January 2022.

SAP S/4HANA conversion hardware instance requirements






PHASE 1 SAP ECC MAINTENANCE LINE SYSTEM REQ

	Name/SID: PRD – EP1 Purpose: Production Refresh: Transport Only Transport: QAS	Prov Date: Apr 2022 Decom Date: Dec 2022 Term: 1 YR Reserve Size: 4.8TB
	Name/SID: QAS – EQ1 Purpose: Quality Assurance Refresh: PRD Quarterly Transport: DEV	Prov Date: Feb 2022 Decom Date: Dec 2022 Term: 1 YR Reserve Size: 4.8TB
	Name/SID: DEV – ED1 Purpose: Development Refresh: None Transport: Golden	Prov Date: Mar 2022 Decom Date: Dec 2022 Term: 1 YR Reserve Size: 0.5TB
	Name/SID: TRN – ET1 Purpose: Training Refresh: PRD As Req'd Transport: None	Prov Date: May 2022 Decom Date: Nov 2022 Term: 1 YR Reserve Size: 4.8TB
	Name/SID: SPR – EX1 Purpose: Special Purpose Refresh: PRD As Req'd Transport: None	Prov Date: May 2022 Decom Date: Nov 2022 Term: 1 YR Reserve Size: 4.8TB
	Name/SID: POC3 Purpose: Sandbox Refresh: None Transport: Manual	Prov Date: Jan 2022 Decom Date: Dec 2022 Term: 1 YR Reserve Size: 4.8TB

PHASE 2 SAP S/4HANA PROJECT SYSTEMS REQ

	Name/SID: POC1>POC3 Purpose: Sandbox Refresh: None Transport: Manual	Prov Date: Jan 2022 Decom Date: Dec 2024 Term: 3 YR Reserve Size: 2TB HANA
	Name/SID: POC2>ET1 Purpose: Sandbox Refresh: None Transport: Manual	Prov Date: Jan 2022 Decom Date: Dec 2025 Term: 3 YR Reserve Size: 2TB HANA
	Name/SID: POC3>ARC Purpose: Sandbox/Archive Refresh: None Transport: POC2	Prov Date: Jan 2022 Decom Date: Dec 2025 Term: 3 YR Reserve Size: 2TB HANA
	Name/SID: POC4>EX1 Purpose: Sandbox Refresh: None Transport: POC3	Prov Date: Apr 2022 Decom Date: Mar 2025 Term: 3 YR Reserve Size: 1TB HANA
	Name/SID: MOC1-2>EQ1 Purpose: Dress Rehearsal Refresh: None Transport: POC5	Prov Date: Jul 2022 Decom Date: Jun 2025 Term: 3 YR Reserve Size: 1TB HANA
	Name/SID: SOLMAN Purpose: ALM Refresh: None Transport: None	Prov Date: Jul 2022 Decom Date: Jun 2025 Term: 3 YR Reserve Size: 1TB HANA
	Name/SID: ATC Purpose: Custom Code Refresh: None Transport: None	Prov Date: Jan 2022 Decom Date: Dec 2022 Term: 1 YR Reserve Size: 1TB HANA

PHASE 2 SAP S/4HANA MAINTENANCE LINE SYSTEMS REQ

	Name/SID: PRD – EP1 Purpose: Production Refresh: Transport Only Transport: QAS	Prov Date: Aug 2022 Decom Date: Jul 2025 Term: 3 YR Reserve Size: 2TB HANA
	Name/SID: QAS – EQ1 Purpose: Quality Assurance Refresh: PRD Quarterly Transport: DEV	Prov Date: Jul 2022 Decom Date: Jun 2025 Term: 3 YR Reserve Size: 1TB HANA
	Name/SID: DEV – ED1 Purpose: Development Refresh: None Transport: Golden	Prov Date: Sep 2022 Decom Date: Aug 2025 Term: 3 YR Reserve Size: 1TB HANA
	Name/SID: TRN – ET1 Purpose: Training Refresh: PRD As Req'd Transport: None	Prov Date: Jan 2022 Decom Date: Dec 2024 Term: 3 YR Reserve Size: 1TB HANA
	Name/SID: SPR – EX1 Purpose: Special Purpose Refresh: PRD As Req'd Transport: None	Prov Date: Apr 2022 Decom Date: Mar 2025 Term: 3 YR Reserve Size: 1TB HANA

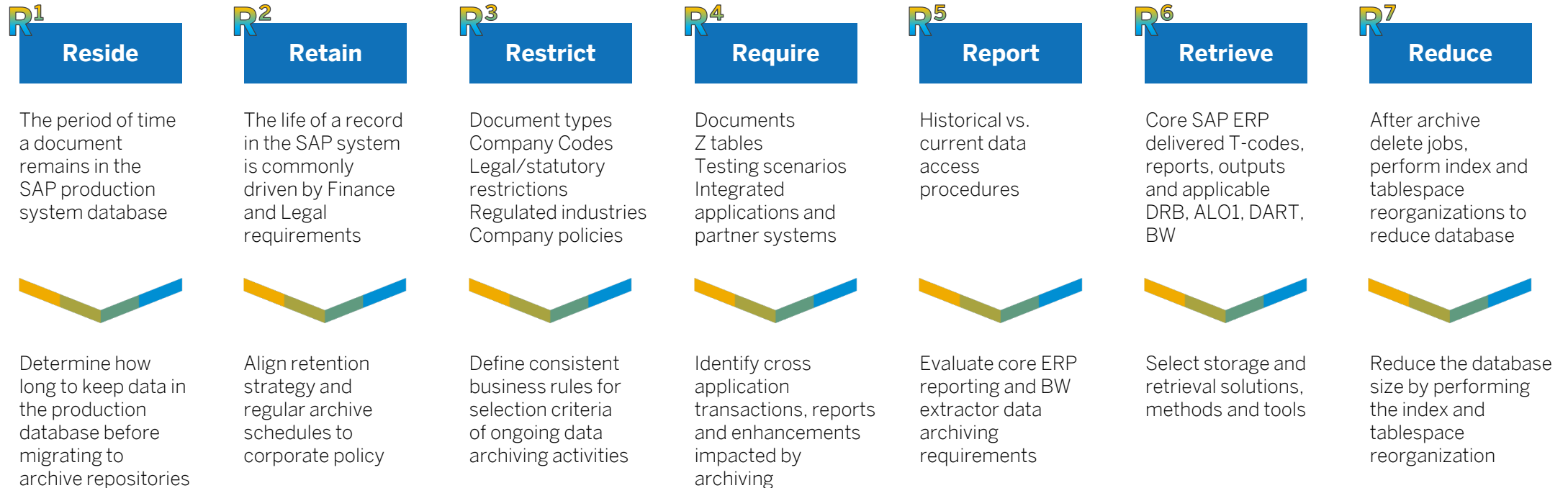


S3 Storage: S3-ECC
Purpose: System Back-ups
Term: 3 YR Reserved
Size: ~50TB

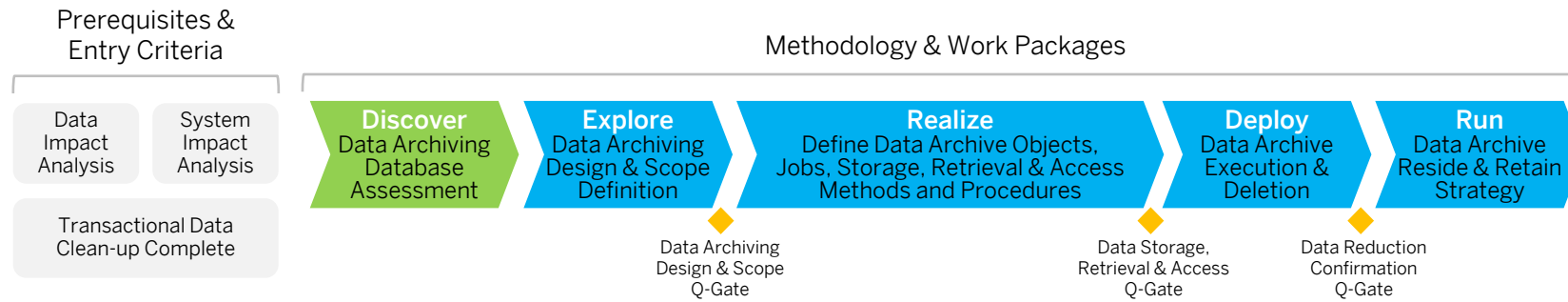
Understanding the guiding principles of data archiving

R⁷

SAP® Archiving is an iterative process of removing data for your production system that requires disciplined principles that yield safe and consistent data management outcomes. The seven 'R's of SAP data archiving help you put in place the strategies that ready systems for S/4HANA conversion.



Executing the data archiving process



Project Activity Description: Archive low value historical data from the SAP production system. A reduction of historical data is recommended by SAP to reduce the database size before every conversion project. The total data volume in the productive system has a direct correlation to the business and system downtime and complexity of the SAP S/4HANA conversion.

Duration: ~6 Months

Business Value Argumentation: The reduction of the data footprint will reduce risks, and business and systems downtimes associated with the S/4HANA conversion. Due to the new in-memory SAP HANA database, it will also significantly reduce the system memory requirements and result in reduced database licensing fees.

Prerequisites, Dependencies & Entry Criteria: 1. The development of the business and technical data impact analysis on total database size. 2. The closing out of documents and clearing any historic open items is a prerequisite for data archiving. All in-scope business and transactional data must be in 'closed' status, as transactional data in 'open' status, and their document flow dependents, cannot be archived. 3. High-level data retention strategy.

Business/System Down-time: System downtimes correlate directly to volume of data (jobs and objects) to be converted and migrated.

Successors/Key Future Activities: Ongoing historical data archiving for tables/objects with growth potential.

Exit Criteria: Reduction of data record volume and associated size reduction of the database tables needs to be significant enough to accelerate system conversion and data migration.

Business/IT Outcomes: Extended run-times of system migration/conversion steps is dramatically reduced. The existence of low-value historical data drives extended system maintenance downtimes.

Resources Required: Savantis resources include SAP PMO, Basis (PTE), Archiving (FTE) and required functional resources to support analysis, testing, and resolution. Client functional leads, Client CoE infrastructure, development, and security resources.

Key process step activities

- Discover:** Identify and define data base reduction benefits, business case and project charter.
- Explore:** Analyze high impact tables, and objects. Identify reside and retain business, legal and statutory requirements. Define business rules for data selection criteria, output storage and access methods. Plan job scheduling and access job execution impacts on system performance.
- Realize:** Set reside time for archive objects. Specify archive parameters for path, name and repository. Install selected storage solution. Configure output capturing and storage. Establish network connectivity and configure repositories in storage solution. Establish and confirm storage access and retrieval. Enable transactions, reporting, and extractors in archive.
- Deploy:** Execute data archiving in production system. Validate archive success and retrieval methods. Optimize archive job sequencing and scheduling.
- Run:** Establish ongoing dynamic variants for steady state data reside and retention.



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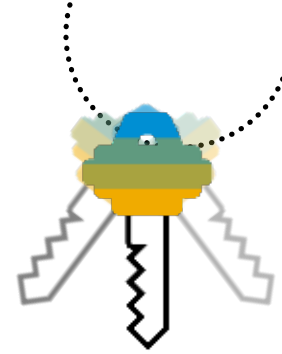


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SAP S/4HANA Discovery and Preparation Roadmap

MONTH 1	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6	MONTH 7	MONTH 8	MONTH 9	MONTH 10	MONTH 11	MONTH 12
TECHNICAL SPT	SOLUTION & TECHNICAL ANALYSES		TRANSITION STRATEGY SELECTION			ECC MODERNIZATIONS + S/4 PRE-WORK					
	SAP READINESS CHECK ANALYSIS		SIMPLIFICATION + INNOVATION DISCOVERY			BUSINESS CASE + PROGRAM CHARTER DEVELOPMENT			PROGRAM PLAN + ESTIMATES-TO-COMPLETE		
Analyze SAP Technical Infrastructure. Select PRD replica to run SAP Readiness Check. Ensure interfaces, custom code and data volumes are consistent with PRD	Conduct SAP Readiness Check 2.0 deep-dive analysis sessions and playback results to key business and IT stakeholders. Explore SAP S/4HANA transition strategies, concepts and approaches		Prepare and execute simplification and digital innovation sessions aligned to business improvement imperatives for change. Curate analyses, quantify pros & cons of each S/4 transition strategy, and select the best-fit approach.			Develop program business case and charter for your selected option. Document and quantify all business value opportunities by functional and technical area delivered thru digital transformation and automation.			Develop S/4HANA program WBS schedule, resource staffing plan, and estimates to complete. Submit budgetary funding requests.		
Load all applicable SAP Notes to run Readiness Check	Develop a high-level discovery and preparation phase WBS plan & estimates		SAP APPLICATION LIFECYCLE MANAGEMENT Assess the benefits of migrating your SAP ALM solution to SAP ALM Cloud or Solution Manager 7.2 SPS15+ to support the S/4HANA project and ongoing productive application management after go live. Achieve value in project management acceleration, quality delivery, and ongoing support efficiencies.			SAP APPLICATION LIFECYCLE MANAGEMENT Establish program governance structures and PMO processes for scope, time, cost, resource, issue, risk, quality, and communications management, controlling and reporting for ECC Modernizations, S/4HANA Simplifications, Cloud Enablement, Data Harmonization and Archiving, and SAP ALM Renovation Pre-Projects. Implement new SAP ALM business processes, modernize system documentation and artifacts. Implement new Test Suite, migrate old ECC test assets, update test scenarios, scripts and cases. Implement and integrate new automated testing solutions and develop automated test assets.					
Validate SAP Solution Manager ALM processes, versions and readiness for SAP Readiness Check 2.0 generation	Review current-state LoBs, brands, geos, business models, multi-year business imperative roadmap including MA&D planning and initiatives		SAP FUNCTIONAL AREA WORKSTREAMS ECC Modernizations that Accelerate S/4 Transition Explore ECC modernizations that will improve business efficiencies, prepare your user community for S/4 adoption, and reduce overall change impacts. S/4HANA Simplifications and Improvements Evaluate, compare, and contrast current ECC feature/functionality with the new ways of working in S/4. S/4HANA New Intelligent Functions and Capabilities Discover new intelligent S/4 functions, features, and capabilities that can drive business improvements through new digital business models.			SAP FUNCTIONAL AREA WORKSTREAMS Execute ECC Modernizations Develop business process decomposition and pre-work plan for all workstreams, e.g., OTC, PTP, FTP, RTR. Architect, design, build, test, and deploy new ECC OTC, PTP, FTP, RTR org changes, business process cleanup and S/4 preparation configuration. Execute ECC > S/4 Simplifications and Improvements Develop high-level scope and designs for new build items. Architect, design, build, test, and deploy new ECC solutions to support future state S/4 simplification items and digital innovations. Architect and Design S/4HANA New Intelligent Functions and Capabilities Develop high-level scope and designs for new build items. Architect and design new intelligent S/4 functions, features, and capabilities that can drive business improvements through new digital business models.					
Run SAP Readiness Check and validate all tiles have generated successfully	Review business and IT pain points and key digital transformation innovation areas		SAP DATA CLEANSING, HARMONIZATION & ARCHIVING Analyze SAP master and transactional data volumes, data inconsistencies and SAP DB size. Assess archiving potential that reduces the size and cost of the SAP HANA in-memory database.			SAP DATA CLEANSING, HARMONIZATION & ARCHIVING Remediate Data Inconsistencies in Source ECC Cleanse and harmonize master data (CVI) and close transaction data open items. Analyze as-is database table sizes, volumes, and retention strategies. Data Archiving Execution/Data Conversion and Migration Planning Project Execute data archiving and/or assess and select data migration tools for mapping and conversion of master data and historical transaction data.					
Upload results to SAP web services to generate SAP Fiori-based report and extend SAP authorizations to report for core team members	Analyze SAP Readiness Check Report including Simplification Items, Add-Ons, Integrations, Custom Code, Master and Transactional Data, etc.		SAP APPLICATION DEVELOPMENT Analyze custom ABAP code, quantify RICEFW objects, and estimate remediation efforts. Assess key system integrations, add-ons and bolt-ons for vendor certification to target S/4HANA version.			SAP APPLICATION DEVELOPMENT Establish ABAP Test (ATC) instance on Cloud PoC Quantify custom code remediation efforts and categorize in P1, P2, P3, P4. Execute preliminary ATC checks for code remediation and adaptation. Custom Code Remediation and Adaptation Execution Project Execute preliminary custom code remediation and adaptation of key system extensions, user exits, system bolt-ons and add-ons.					
	SAP FIORI, EMBEDDED & ENTERPRISE ANALYTICS Understand the new S/4 virtual data model and the power of embedded analytics. Take full advantage of the SAP HANA database and Fiori user-based productivity enhancements. Discover how new augmented and predictive analytics based on ML will redefine the Insight-To-Action lifecycle.		SAP FIORI, EMBEDDED & ENTERPRISE ANALYTICS Refine UX/UI, Reporting & Analytics Strategies Develop enterprise wide Fiori, embedded and enterprise reporting and analytics strategy, solutions, tools and implementation plans.								
	CLOUD INFRASTRUCTURE & SAP TECH ARCHITECTURE Assess the benefits of migrating on-premises infrastructures to cloud hyperscalers to achieve quantifiable business value in the areas of resiliency, agility, cost savings, and staff productivity. Review as-is, and design future-state SAP technical strategy, system instances, versions, OS/DB, sizing, HA/DR, Security and Compliance and develop cloud business case for change.		CLOUD INFRASTRUCTURE & SAP TECH ARCHITECTURE Build Cloud Proof-of-Concept (PoC) Based on PRD and the selected S/4HANA transition strategy Conversion or Shell, develop detailed plans for cloud migration including ETC. Cloud Enablement/Migration Project Execute cloud migration from on-premise or co-location data center to cloud hyperscaler.								
	ORGANIZATIONAL CHANGE MANAGEMENT & TRAINING Assess org change impact of transition strategy on business org alignment, readiness, users, deployment strategy, etc. Govern, manage and champion digital innovation discovery, and analysis using business process segmentation model approach to differentiating capabilities		ORGANIZATIONAL CHANGE MANAGEMENT & TRAINING Perform Stakeholder Assessment and Org, Site and User Change Impact Analysis based on S/4 simplification items and new intelligent capability augmentation. Develop OCM&T Business Case for Change. Develop detailed OCM&T change, communications, and training plan. Identify and perform OCM&T workstream pre-work, e.g., role mapping, methods and tools enablement, training curriculum and assets, accelerators and job aides.								

Keys to your successful start



- 1 Enable your ALM solution early.** SAP Solution Manager 7.2 supports countless transition steps offering tools to support project tasks, such as business process documentation, test management and collaboration.
- 2 Audit your system assets early to support the new solution.** Assess existing SAP system documentation, such as technical specs and test scripts early to backfill gaps in key assets before the S/4HANA conversion begins.
- 3 Stand-up Proof-of-Concept solutions early.** Proof-of-Concept (POC) systems are a great risk mitigation strategy to uncover issues early in the lifecycle. Consider multiple POCs to further accelerate the conversion process.
- 4 Cleanse your system.** Many customers have historical data that is in open status that will sometimes prevent conversion, and always prevent data archiving.
- 5 Archive your historical data.** The technical sizing of your new SAP HANA database is based on in-memory DB size in terabytes. And when moving to the cloud or converting, business and system downtimes are based on the active DB size. Thus, it's paramount you reduce the system size anyway possible to save time and money.
- 6 Get ahead start on simplification items.** The simplification items provide the understanding of changes between your SAP ERP 6.x and S/4HANA end state. Analyze and develop strategies early to address larger simplification impacts.
- 7 Carefully inspect custom code.** Analyzing your custom RICEFWs for business use is a great start. Often RICEFWs built years ago are not relevant and thus not required for remediation.
- 8 Don't overlook SAP add-ons and partner system integration readiness.** SAP add-ons that are active in your SAP ERP 6.x solution need to be updated to the latest S/4HANA version. Many times older 3rd party extensions will not be certified for the latest S/4HANA version.
- 9 Assessing business and system downtime.** One of the most important activities to perform is mocking your conversion as soon as possible in the transition project lifecycle. You must know ASAP how long your business outage will be in cutover.
- 10 Build realistic estimates for the project.** The more you maximize the Discovery Phase and practice active remediation and planning, the better your estimates will be. Be careful selecting the low bidder, chances are, it is too good to be true.

“For many customers, SAP S/4HANA transition programs start with a debate on how to approach the project and what options to consider. Most of them swiftly come to the conclusion that the company's vision, readiness to change, and ability to manage these changes play a much bigger role than any technology aspects. We couldn't agree more.”

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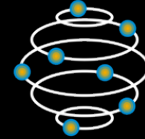


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Savantis Solutions SAP Services



SAP S/4HANA INTELLIGENT ENTERPRISE
S/4HANA Digital Transformation
S/4HANA Roadmapping + Advisory
S/4HANA New Implementations
S/4HANA Conversions & Selective Data Transitions



SAP SUPPLY CHAIN OPTIMIZATION
SCM Roadmapping + Advisory
SAP Advanced ATP & Extended Warehouse Management
SAP IBP & SNC
SAP IoT and Robotics Integration



SAP OMNICHANNEL CUSTOMER EXPERIENCE
SAP Marketing Cloud
SAP Commerce Cloud
SAP Sales & Service Cloud
SAP Customer Data Cloud



SAP PREDICTIVE & AUGMENTED ANALYTICS
SAP Analytics Roadmapping + Advisory
SAP Analytics Cloud
SAP Data Warehouse Cloud
BW/4HANA

References & Acknowledgements

This document references exerts from numerous SAP materials including past SAP sponsored materials, SAP Partner Portal resources, SAP blogs, SAP whitepapers and associated materials found in SAP methods and tools across the vast SAP ecosystem. Savantis wishes to thank all those at SAP, who work tirelessly to improve the SAP experience and serve the SAP customer base for their direct and indirect contributions that have made this document possible. We would also like to acknowledge our customers that have contributed to our base of knowledge that has made it possible for those that follow to walk the beaten path you have paved. And to all those SAP customers embarking on their SAP S/4HANA intelligent enterprise journey, your future awaits using the best products and solutions in the world!



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