

SAP Readiness Check for SAP S/4HANA

SAP S/4HANA 2023

1. Gesamtsystem ATC Check – Custom Code Analyse
2. EWE Best Practice Paket ATC Check – Custom Code Analyse

1. Gesamtsystem

Customer Name	EWE Aktiengesellschaft
Customer Number	12225
System ID	SCP
System Role	Production System
Installed Product Version	SAP enhancement package 8 for SAP ERP 6.0
Date of Analysis	10/20/2025

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

The custom code analysis was performed in system: HCE

5.1 Custom Code

Before your transition, a custom code analysis is recommended to identify the impact on custom functionalities and required adaptations due to the simplified application architecture of SAP S/4HANA.

This section shows an overview of the custom code analysis that was executed by the ABAP test cockpit, providing the following information in the header area and the table (if enabled in the table settings) in the Custom Code Analysis check within SAP Readiness Check for SAP S/4HANA:

- **Total Findings:** This figure highlights the total number of findings for the ABAP test cockpit analysis.
- **Total Objects with Findings:** This figure counts the number of distinct custom code objects with findings from the ABAP test cockpit analysis.
- **(SYCM) Total Custom Code Objects:** This figure highlights the total number of custom code objects (based on evaluation of table TADIR). This does not reflect the number of objects to be remediated as part of the conversion project.
- **(SYCM) Total Modifications:** This figure highlights the total number of modified objects (based on the evaluation of table SMODILOG). This does not reflect the number of objects to be remediated as part of the conversion project.
- **Relevant SAP Notes:** Indicates the number of SAP Notes found to be relevant for the analyzed custom code. These SAP Notes provide guidance on how to remediate the different types of findings identified by the analysis.
- **Status:** The status describes the state of the corresponding simplification item.
Note that the *Functionality Unavailable* status does not necessarily mean that the dependent custom functionality must be redesigned completely. Unless your custom development is a functional extension to the deprecated standard functionality, you will most probably be able to resolve the dependency by technical means. Furthermore, please note that findings with the status *Non-Strategic Function* do not necessarily need to be resolved immediately. This status describes deprecated functionality, which is to be considered outdated and best avoided. This includes functionality linked to compatibility scope, which is planned to be replaced or removed in future releases. We strongly recommend performing a business evaluation to determine when to replace non-strategic functionalities with possible alternatives. Then, only after the evaluation, address custom code issues as required. For more information about compatibility packages, please refer to the *Compatibility Scope Analysis* check.
- **Type of Remediation:**
 - **Functional Redesign:** An application expert is required to review the corresponding simplification item and help with the right approach for the custom code adaptation.

- *Technical Code Adaption*: No application knowledge is required for the technical code adaptation. It can be performed either automatically by a quick fix or manually by an ABAP developer.
- *Quick Fix Support (Actual)*: The quick fix support type shows whether ABAP test cockpit findings have a quick fix for automated custom code refactoring. They allow you to fix the corresponding findings with limited effort.
- *Scope Information* (only available if you have used the SAP Fiori app Custom Code Migration):
 - *In Scope*: The ABAP custom code that is included in the scope for your custom code migration project, which is determined based on selected ABAP packages in your development system and usage information.
 - *Not in Scope*: Unused custom code can be removed from the scope and deleted by using deletion transport requests during the conversion.

This information helps you to reduce the number of custom code objects to be migrated and minimizes the effort for a custom code remediation. Note that scope information is only provided when using the Custom Code Migration app. However, it is not included with the download from ABAP test cockpit. If the Custom Code Migration app is not used, the *Scope Information* for all items will be *In Scope* by default.

- *Exemption State*: An ABAP test cockpit exemption deactivates a finding or set of findings for a defined amount of time.
 - *Exempted*: Approved exemptions, as well as exempted findings using a pragma code or pseudo comment.
 - *In Baseline*: Findings that are exempted due to the inclusion in a baseline analysis.
 - *Unresolved*: Findings that are not resolved.
- *Usage Information* (only available if you have used the SAP Fiori app Custom Code Migration):
 - *Used*: The related custom code objects are being used and require remediation for the target SAP S/4HANA release.
 - *Not used*: The related custom code objects are not detected as being used and are therefore potential candidates for decommissioning.
 - *Unknown*: Usage statistics could not be retrieved for all object types. In such cases, the value is set to *Unknown*.
- *Priority*: The displayed notifications (*Error*, *Warning*, and *Information*) help you focus on the most critical ABAP test cockpit findings (that is, Priority 1, Priority 2, and Priority 3 in the ABAP test cockpit).
- *Number of Custom Objects*: The number of custom code objects (such as classes and programs) and sub-objects (such as methods and function modules) for which findings have been detected. Click on the value to get more information about the impacted custom objects.
- *Application Component*: The application component information is derived from the associated SAP Note.
- *SAP Note*: If available, a link to an SAP Note that is related to the custom code topic is provided. It includes recommendations for custom code refactoring.

The following table provides a summary of the ABAP test cockpit results:

OVERVIEW OF THE ABAP TEST COCKPIT RESULTS

Item	Number of Unresolved Findings
Total Findings	22,150
In Scope: Functional Changes (Manual Efforts)	1,736
In Scope: Technical Code Adaptation (Manual Efforts)	3,282
In Scope: Technical Code Adaptation (Automated with Quick Fixes)	17,132
Not in Scope: Functional Changes (Manual Efforts)	0
Not in Scope: Technical Code Adaptation (Manual Efforts)	0
Not in Scope: Technical Code Adaptation (Automated with Quick Fixes)	0

BY REMEDIATION TYPE AND QUICK FIX SUPPORT

Item	Number of Unresolved Findings
Functional Redesign with Quick Fix	1,623
Functional Redesign without Quick Fix	113
Technical Code Adaption with Quick Fix	17,132
Technical Code Adaption without Quick Fix	3,282

BY PRIORITY

Item	Number of Unresolved Findings
Errors (Priority 1)	4,957
Warnings (Priority 2)	4,708
Information (Priority 3)	12,485

BY SCOPE

Item	Number of Unresolved Findings
In Scope	22,150
Not in Scope	0

BY USAGE

Item	Number of Unresolved Findings
Used	0
Not Used	0
Referenced	0
Unknown	22,150

BY APPLICATION COMPONENT

Item	Number of Unresolved Findings
AP-PPE-CMP	6
BC-ABA	23
BC-BMT-OM	2
CA-FLE-AMT	4,566
CA-FLE-MAT	3,033
CO-PA	80
CO-PC-ACT	4
EC-CS	10
EHS-HEA	2
EHS-IHS	2
EHS-WA	1
FI-AA	85
FI-GL	116
FI-GL-GL	457
FI-GL-GL-N	156
FI-LOC-BUP	6
FI-LOC-PS-HU	1
FIN-FSCM-CLM	3
FIN-FSCM-CLM-BAM	10
FIN-MIG	255
FIN-MIG-AA	2
FS-CML	3
IS-A-JIT	6
IS-A-SWP	1
IS-ADEC-ALC	1
IS-HT-DRM	2
IS-M	16
IS-MP-PP	2
IS-OIL-OL	1
IS-R-IS-RIS	6
IS-R-PUR-POF	5
LE-TRA	82
LO-ADM	39
LO-MD-BP	87
LO-MD-MM	9

LO-MD-PC	257
LO-RFM-CA-SE	102
LO-SRS	2
MM-IM-ED	3
MM-IM-GF	95
MM-IM-GF-VAL	27
MM-PUR-FIP	4
MM-PUR-PO	107
PA-RC	1
PM-WOC	618
PM-WOC-MO	111
PP-CRP-SCH	1
PP-MRP	5
PS	14
PSM-FM	422
SD-BF-AC	4
SD-BF-MIG	130
SD-BF-PR	114
SD-BIL	81
SD-BIL-RB	1
SD-CAS	29
SD-SLS	2
SD-SLS-GF-RE	6
SLL-LEG-CNS	204
SLL-LEG-FUN-CLS	24
XX-PROJ-FI-CA	13
XX-SER-REL	508
	10,185

For additional details on the simplification items affecting custom code, check the *CustomCode.xlsx* file. The table included in the file lists relevant custom code topics together with the status, remediation type, quick fix support, and number of findings grouped by priority, exemption state, scope, and usage information. The columns can be used to filter the entries to focus on specific categories. Please review corresponding SAP notes that provide recommendations for custom code refactoring.

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
- Adjustment of modifications using SPDD and SPAU due to the software change
 - Mandatory changes related to the migration to the SAP HANA database if the system is not on SAP HANA already
- Making the custom code Unicode-compliant if the system is not on Unicode yet
- 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 in the list above.

We recommend resolving all *Errors* and *Warnings* found during this analysis. Please also review results flagged as *Information* and adjust at least those supported by quick fixes. In addition, read the [Custom Code Migration Guide for SAP S/4HANA](#).

For more information, see:

- SAP Note that is available for each custom code topic in the *Items* table
- [Custom Code Management during an SAP S/4HANA Conversion](#)
- SAP Note [1912445](#) (ABAP custom code migration for SAP HANA)

- SAP Note [2936504](#) (how to enable in-app extensibility SAP Fiori apps in SAP S/4HANA Cloud, extended edition)
- [Extend SAP S/4HANA in the cloud and on premise with ABAP based extensions](#)

SAP Readiness Check does not require any code to be transferred to SAP to create this analysis.

Note that when quick fix information is not included in the exported results, the SAP Readiness Check results include an estimate for the portion of findings that potentially have quick fix support.

For more information on how to run the required tools, see the [Custom Code Migration Guide for SAP S/4HANA](#).

The custom code analysis identifies mandatory change areas due to the simplified application architecture of SAP S/4HANA. The analysis also does not include required adaptations for future add-ons or for custom code unrelated to SAP S/4HANA.

The *Status* column displays the naming convention from the ABAP test cockpit check variant S4HANA_READINESS*. Note that the status description differs from the *Category* column of the *Simplification Items* check. For example, *Functionality Unavailable (Equivalent Exists)* is described as *Functionality Unavailable (Alternative Exists)* in the *Simplification Items* check.

The data collected for the current check is client independent.

LINK TO THE COMPLETE LIST OF THE CUSTOM CODE ANALYSIS RESULTS

[https://me.sap.com/readinesscheck/Analysis\('6056690'\)/ATC](https://me.sap.com/readinesscheck/Analysis('6056690')/ATC)

5.2 Recommended Additional Checks

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 1912445	ABAP custom code migration for SAP HANA - recommendations and Code Inspector variants for the SAP HANA migration
Custom Code Migration Guide for SAP S/4HANA	Best practice guide – considerations for custom ABAP code during a migration to SAP HANA
Custom Code Documentation on SAP Help Portal	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://pages.community.sap.com/topics/abap-testing-analysis	ABAP testing and analysis community
https://help.sap.com/docs/SUPPORT_CONTENT/sm/3627184393.html	Expert content for SAP Solution Manager: custom code management
https://blogs.sap.com/2017/04/06/abap-call-monitor-scmmon-analyze-usage-of-your-code/	ABAP call monitor (SCMON) – analyze usage of your code

2. EWE Best Practice Paket

Customer Name	EWE Aktiengesellschaft
Customer Number	12225
System ID	SCP
System Role	Production System
Installed Product Version	SAP enhancement package 8 for SAP ERP 6.0
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- *SAP Note*: If available, a link to an SAP Note that is related to the custom code topic is provided. It includes recommendations for custom code refactoring.

The following table provides a summary of the ABAP test cockpit results:

OVERVIEW OF THE ABAP TEST COCKPIT RESULTS

Item	Number of Unresolved Findings
Total Findings	3,774
In Scope: Functional Changes (Manual Efforts)	194
In Scope: Technical Code Adaptation (Manual Efforts)	181
In Scope: Technical Code Adaptation (Automated with Quick Fixes)	3,399
Not in Scope: Functional Changes (Manual Efforts)	0
Not in Scope: Technical Code Adaptation (Manual Efforts)	0
Not in Scope: Technical Code Adaptation (Automated with Quick Fixes)	0

BY REMEDIATION TYPE AND QUICK FIX SUPPORT

Item	Number of Unresolved Findings
Functional Redesign with Quick Fix	171
Functional Redesign without Quick Fix	23
Technical Code Adaption with Quick Fix	3,399

Technical Code Adaption without Quick Fix	181
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BY PRIORITY

Item	Number of Unresolved Findings
Errors (Priority 1)	757
Warnings (Priority 2)	811
Information (Priority 3)	2,206

BY SCOPE

Item	Number of Unresolved Findings
In Scope	3,774
Not in Scope	0

BY USAGE

Item	Number of Unresolved Findings
Used	0
Not Used	0
Referenced	0
Unknown	3,774

BY APPLICATION COMPONENT

Item	Number of Unresolved Findings
BC-ABA	19
BC-BMT-OM	2
CA-FLE-AMT	9
CA-FLE-MAT	1,440
CO-PA	11
FI-LOC-PS-HU	1
FIN-BA	2
FIN-MIG	4
IS-ADEC-HBS	1
IS-M	15
IS-R-PUR-AHD	2
LO-MD-BP	8
LO-MD-PC	2
LO-RFM-CA-SE	75
MM-IM-ED	1
MM-IM-GF	1
MM-PUR-PO	5
PA-RC	1
PM-WOC	221
PM-WOC-MO	150
PP-CRP-SCH	4
PS	4
PSM-FM	3
SD-BF-MIG	3
SD-BF-PR	1
SD-CAS	4
SLL-LEG-CNS	35
XX-SER-REL	146
	1,604

For additional details on the simplification items affecting custom code, check the *CustomCode.xlsx* file. The table included in the file lists relevant custom code topics together with the status, remediation type, quick fix

support, and number of findings grouped by priority, exemption state, scope, and usage information. The columns can be used to filter the entries to focus on specific categories. Please review corresponding SAP notes that provide recommendations for custom code refactoring.

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Link	Topic
https://pages.community.sap.com/topics/abap-testing-analysis	ABAP testing and analysis community
https://help.sap.com/docs/SUPPORT_CONTENT/sm/3627184393.html	Expert content for SAP Solution Manager: custom code management
https://blogs.sap.com/2017/04/06/abap-call-monitor-scmmon-analyze-usage-of-your-code/	ABAP call monitor (SCMON) – analyze usage of your code