

SAP Garage

Use Custom Code Migration app to analyze your ABAP custom code for SAP S/4HANA

Olga Dolinskaja, SAP 8. November 2023

PUBLIC

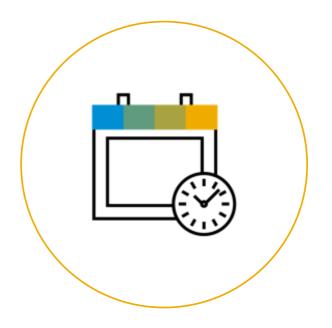


Agenda

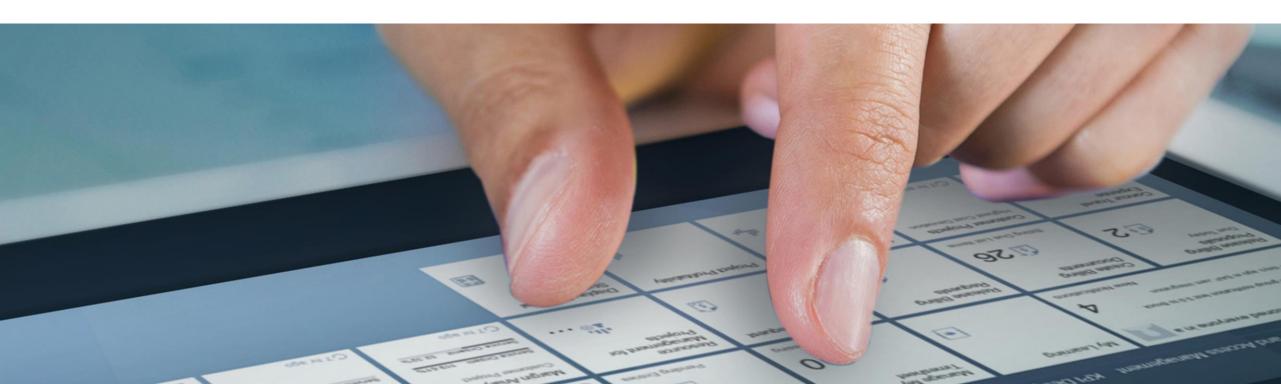
Custom Code Migration app

Semi-automated custom code adaptation

Get started



Custom Code Migration app



Custom code analysis with Custom Code Migration app

SOLUTION OVERVIEW

- Available in SAP BTP, ABAP environment (or SAP S/4HANA >=1809)
- Technically based on remote ABAP Test Cockpit (ATC)
- ▶ Analysis of custom code for SAP S/4HANA, SAP BTP, ABAP Cloud, classic analysis use cases
- Simplified custom code remediation
- Obsolete custom code removal based on usage data
- Identification of custom code candidates for back-to-standard and redesign
- Evaluation of custom code for semi-automated adaptation (quick fixes)
- Automated setup and configuration in SAP BTP, ABAP environment

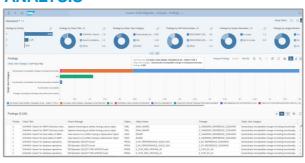
SAP CLOUD CONNECTOR SAP SAP S/4HANA SAP SAP ERP SAP SAP SAP NetWeaver ON PREMISE

HIGH LEVEL FEATURES:

SCOPING



ANALYSIS



Custom code analysis use cases with Custom Code Migration app

SAP S/4HANA CONVERSION

- For tightly coupled custom code extensions
- Analysis of custom code for migration to SAP S/4HANA (<u>link</u>)

SAP BTP MIGRATION

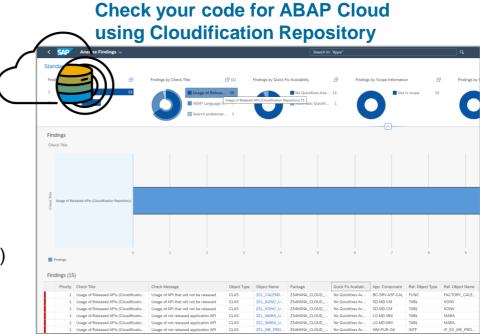
- For loosely coupled custom code extensions
- Analysis of custom code for migration to SAP BTP ABAP Environment (<u>link</u>)

CLOUD ATC

- Custom Code Migration app on SAP BTP for analysis of on-premise systems
- Analysis of code using classic ATC check variants, e.g. security CVA checks (link)

NEW USE CASE: ABAP CLOUD MIGRATION

- For analysis of custom code for ABAP Cloud in SAP S/4HANA on-premise and SAP S/4HANA Cloud, private edition systems
- Provide recommendations (based on Cloudification Repository) which released APIs and cloud-like SAP successor objects to use





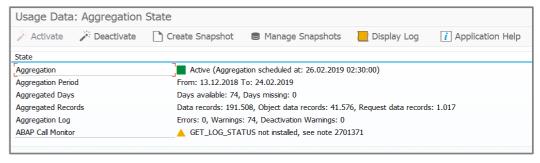
Custom Code Migration app – Scoping (1)

- 1. **COLLECT** usage data for your custom code with ABAP Call Monitor (transaction <u>SCMON</u>)
- 2. **AGGREGATE** usage data in your productive system with SUSG transaction (without SAP Solution Manager *)
- 3. **UPLOAD** usage data to Custom Code Migration to define initial custom code migration scope
- 4. ADJUST custom code migration scope manually (if needed)
- 5. CREATE deletion transport for unused code
- 6. **REMOVE** unused code during the SAP S/4HANA conversion automatically with SUM or backup it using gCTS

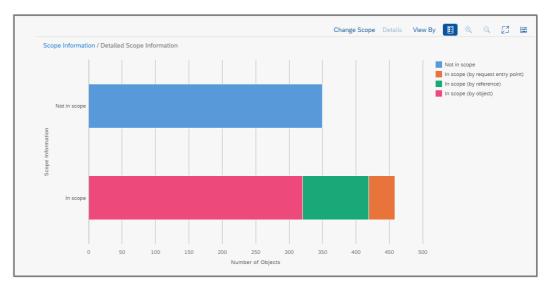


^{*} Custom code evaluation with CCLM/UPL tools of SAP Solution Manager is still possible

Aggregate usage data in SUSG transaction



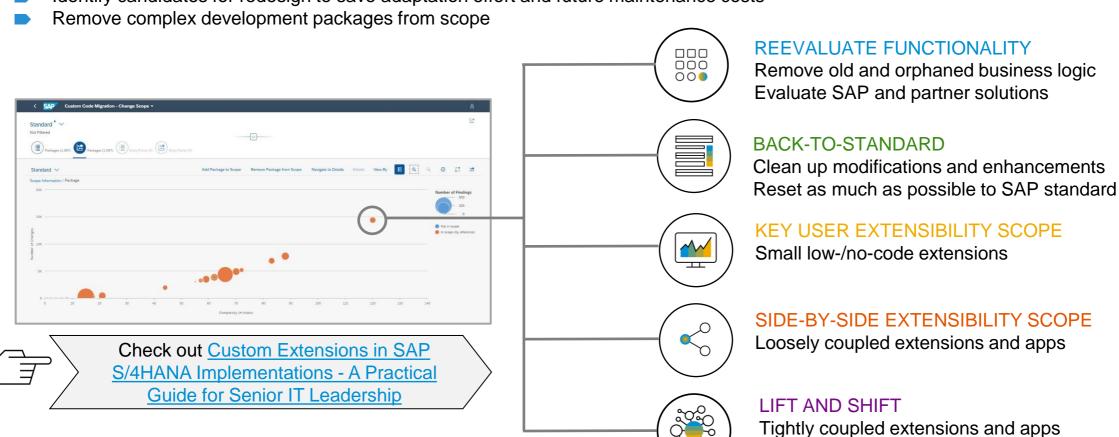
Scoping in SAP Fiori App Custom Code Migration



Custom Code Migration app – Scoping (2)

CLEAN CORE DASHBOARD

- Spot the top TCO drivers in your custom code
- ldentify candidates for redesign to save adaptation effort and future maintenance costs



Public

Optimize and modernize

7

Custom Code Migration app – Analysis

USE PREDEFINED FILTERS

- Findings by SAP Note In which SAP S/4HANA simplification areas you get the most findings?
- Findings by Scope How many findings are in the custom code you take over to SAP S/4HANA?
- Findings by Priority What are the most important (urgent) findings?
- Findings by Quick Fix Availability Which findings can be fixed automatically?

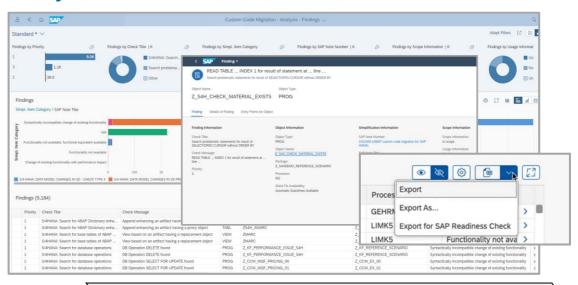
AGGREGATION OF FINDINGS

FOCUS ON USED CUSTOM CODE

FINDINGS BURNDOWN CHART

DOWNLOAD OF ANALYSIS RESULTS (e.g. for SAP Readiness Check 2.0)

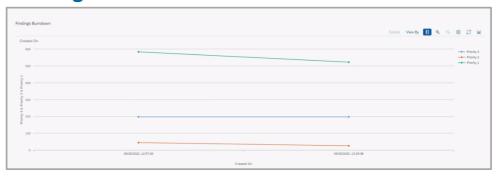
Analysis results





Check out SAP Fiori App Custom Code Migration

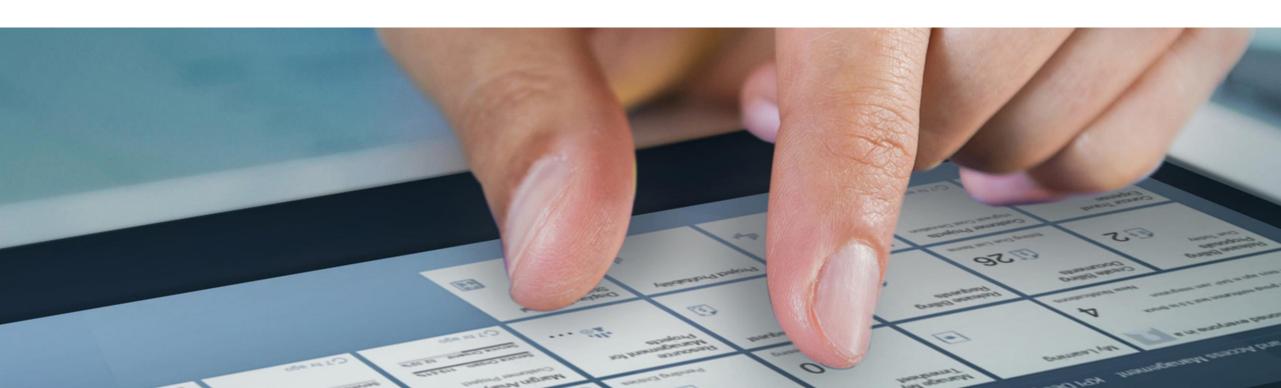
Findings Burndown chart



Custom code analysis options

| | STATE OF THE PROPERTY OF THE P | | |
|--|--|---|--|
| | Remote ATC with SAP GUI | SAP Fiori Custom Code Migration App | SAP Fiori Custom Code Migration App in SAP Business Technology Platform |
| Required system | Central ATC check system (SAP_BASIS 7.52) | Central ATC check system (SAP S/4HANA >=1809) | SAP BTP ABAP Environment |
| System location | in customer landscape | in customer landscape | cloud |
| Remote connectivity | via RFC | via RFC | via RFC and SAP Cloud Connector |
| Technical configuration | manual | manual | with CIAS |
| Analyze Cloud findings | ~ | ✓ (only >= SAP S/4HANA 1909) | ✓ |
| Analyze SAP S/4HANA findings | ✓ | ~ | ✓ |
| Simplification information in ATC result | ~ | ~ | ✓ |
| Filter results by scope and Quick Fix availability | × | ✓ | ✓ |
| Define custom code migration scope based on usage data | × | ✓ | ✓ |
| Remove unused code during system conversion via SUM | × | ✓ | ✓ |

Semi-automated custom code adaptation



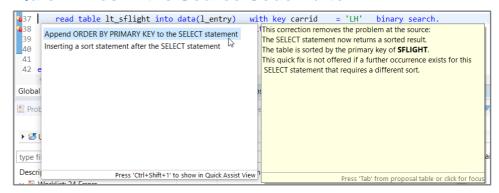
Semi-automatic custom code adaptation in ABAP development tools for Eclipse

QUICK FIXES for SAP S/4HANA

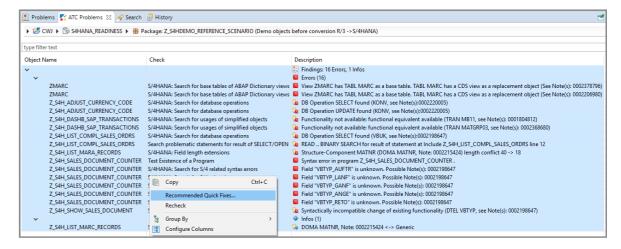
- Order By
- MATNR and Amount Field Length Extension
- Field length extension of field VBTYP (SD document category) and elimination of field VBTYP_EXT
- Reduce findings for VBRK and VBRP
- Data Model Changes, e.g.
 - KONV
 - VBUK/VBUP
 - BSEG

MASS-ENABLED Quick Fixes to adapt whole work packages in one step

Quick Fixes in the Source Code Editor



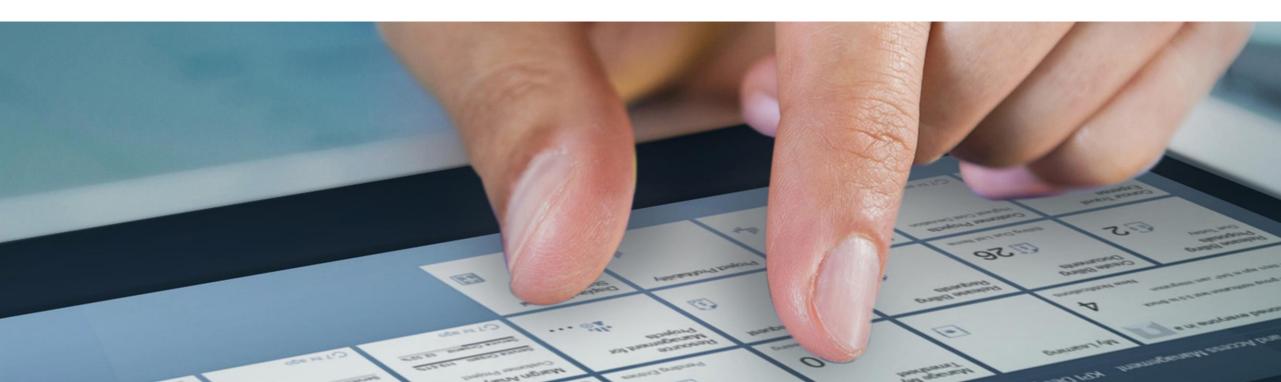
Mass-enabled Quick Fixes in the ATC Problems View





Check out Semi-automatic custom code adaptation

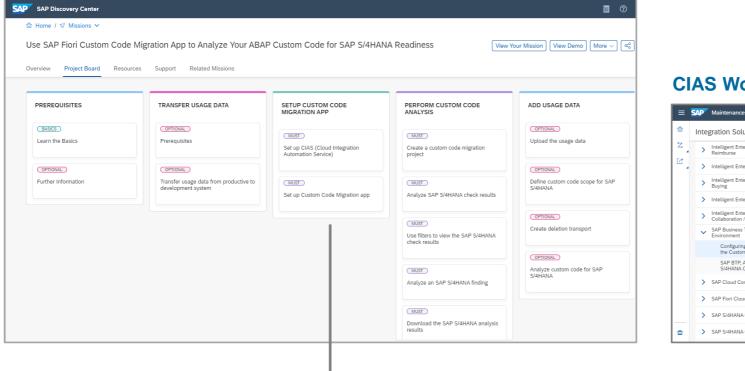
Get started



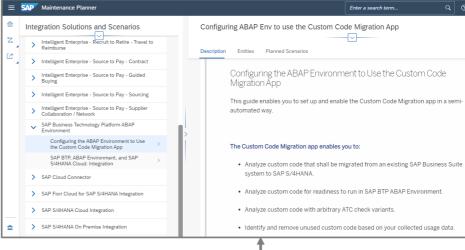
Get started with Custom Code Migration app

SAP Discovery Center Mission Use SAP Fiori Custom Code Migration app to analyze your ABAP custom code for SAP S/4HANA

- Custom Code Migration app in SAP BTP ABAP Environment
- Automated setup and configuration with CIAS guided workflow
- Step-by-step guided custom code analysis

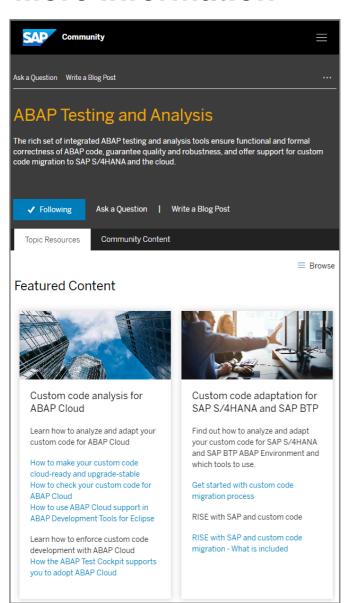


CIAS Workflow for Custom Code Migration app

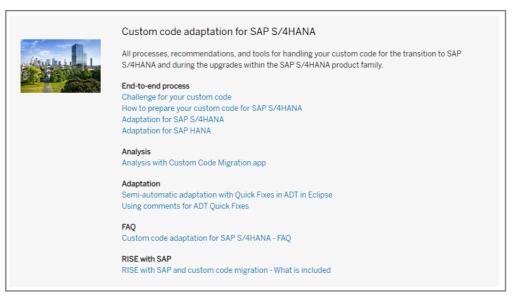


More information









ABAP Testing and Analysis | SAP Community

Thank you.

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