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# Companions for your SAP S/4HANA journey – the latest tools features

Update: June 2020

**CUSTOMER** 

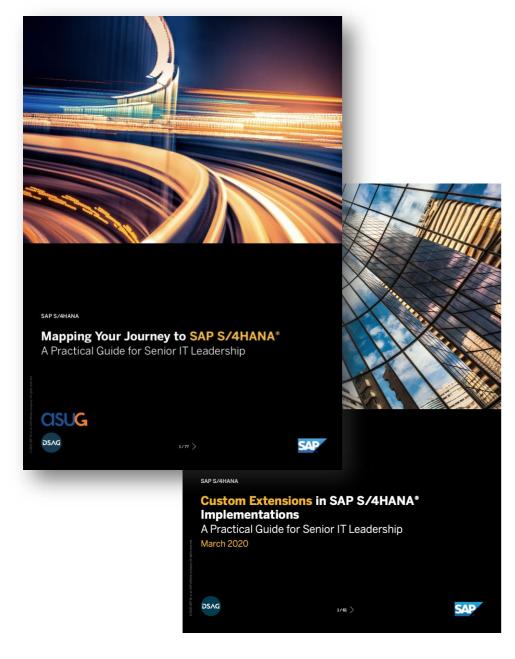


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# Mapping your Journey to SAP S/4HANA – A practical guide for Senior IT Leadership

"Thank you to SAP for putting together this must-read document for customers exploring the migration to SAP S/4HANA."

Geoff Scott and Chris Crone, ASUG

"Valuable support and practical tips for SAP customers who are dealing with extensions in their SAP S/4HANA projects."

Ralf Peters, DSAG





#### Join the SAP S/4HANA Movement Companions for your SAP S/4HANA journey – Tools from SAP

# 01011 11010 10 01101 Finance data

For System Conversion

#### **SAP Readiness Check**

Assess functional & technical impact, understand the effort drivers, and plan mitigations

Check your data prior to conversion on SAP ERP

**Customers & Vendors** 



SAP Code Inspector checks, Custom Code Migration app (also SaaS), Quick Fixes



for a reduced technical downtime

#### **Other**

SAP Solution Manager retrofit, ANST for automated SAP Notes detection, obsolete data handling,...



**SAP Cloud Platform Integration Advisor** 

with 10,000 new interfaces



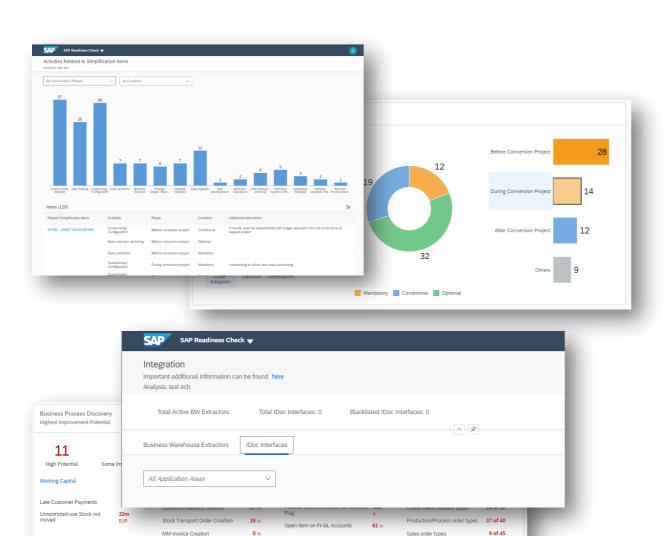
more ready-to-use business objects and object modeling capabilities



While SAP continues to improve these tools, customers should note that most of them are already available and ready for use.

# **Conversions**

## **SAP S/4HANA Readiness Check | Version 2.0 highlights**



Production/Process Order Creation 13 9

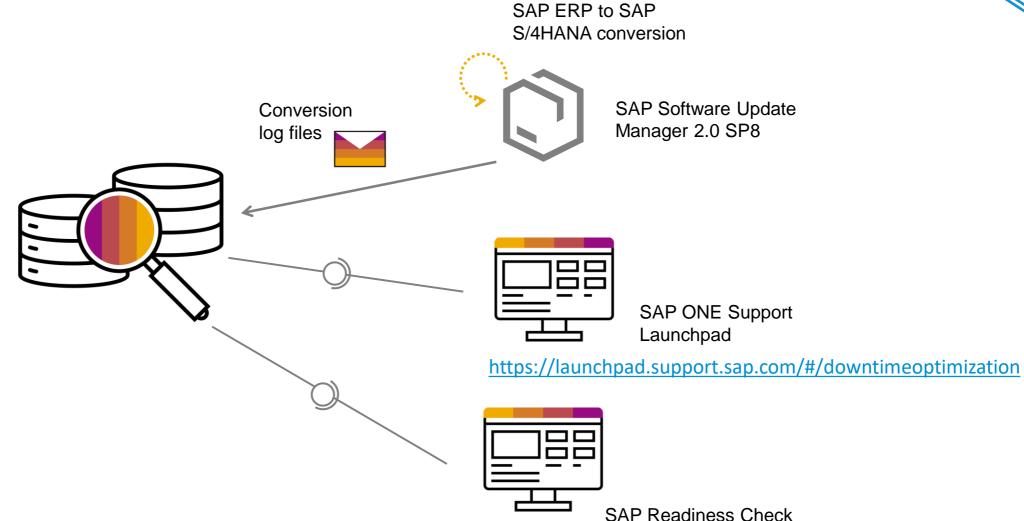
- Effort Ranking
- Activities for simplification items & work breakdown by project phase
- Interface analysis replaces a tedious manual analysis of IDOC interfaces in a system.
- Business Partner # of data quality issues in customers and vendors, effort drivers for implementation.

...AND MORE!



#### Putting conversion runtime statistics to work

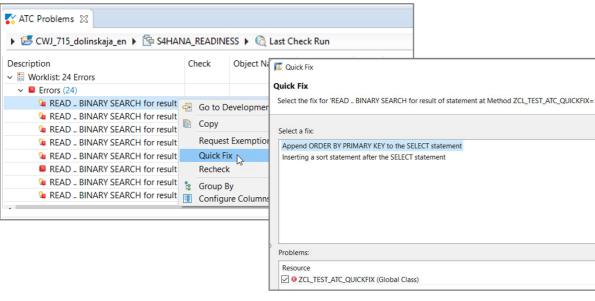


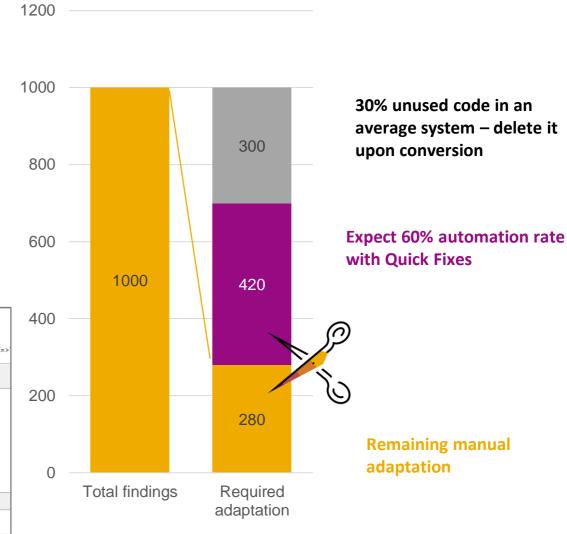


#### **Custom Code** | Automated custom code adaptation with Quick Fixes

# Automatic custom code adaptation with Quick Fixes

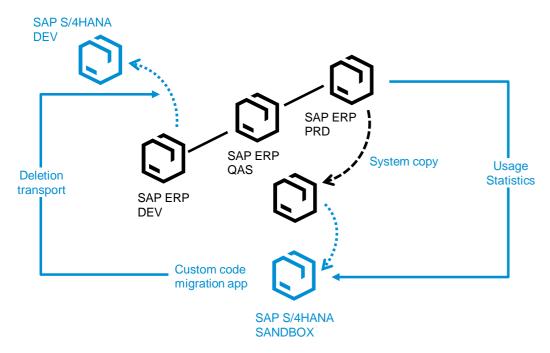
- 1809: **ORDER BY, MATNR**
- 1809 FPS2: BSEG, VBTYP, VBFA, VBUP/VBUK, KONV, ...





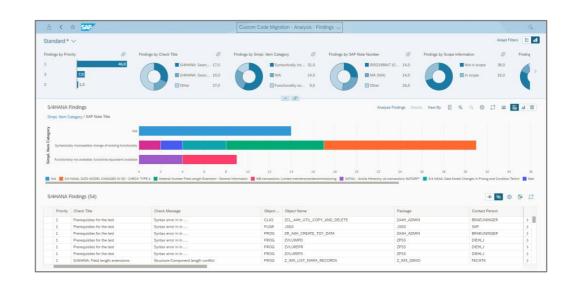
#### **Custom Code** | Integrated removal of unused custom code

In an average SAP ERP system, 30-60% of custom code is never used. Deleting it can significant reduce the effort for code adaptation. Deletion is now part of the conversion with Software Update Manager.



**Step 1**. Keep collecting the data with UPL or activate ABAP Call Monitor with aggregation today.

**Step 2**. Use the new Custom Code Migration Fiori app once your sandbox is converted to SAP S/4HANA.



#### **Custom Code Migration Fiori App**

- Consumes runtime code usage statistics from ABAP Call Monitor
- Prepares a deletion transport
- Provides analytics for remaining required custom code adjustments

#### **Custom Code** | Custom Code Migration App going SaaS

Custom Code Migration App in SAP Cloud Platform – since August 2019

- Perform SAP S/4HANA custom code analysis for your on-premise SAP ERP systems remotely from the Cloud
- Common advantages of SaaS offerings
- Guaranteed the latest custom code checks offered by SAP





https://www.sapstore.com/solutions/40191/SAP-Cloud-Platform%2C-ABAP-environment 1 unit runtime (16GB) + 4 units persistence (4x16GB)

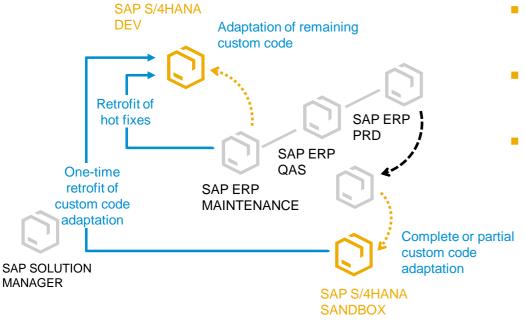
# **Custom Code** | Looking for back-to-standard? Start with the cost drivers & seek a functional alternative



The more frequently you change, the more money you spend

The higher the metric, the more difficult is the code to write or maintain

#### **Custom Code** | Using SAP Solution Manager Retrofit in Conversions



Transport path

Conversion

System copy

- SAP's general recommendation for conversions: 1) sandbox copy of the production SAP ERP 2) production track.
- Rationale: include custom code fixing, deliver to business fully functional system as a preview
- Retrofit a reliable companion in complex landscapes for almost a decade.
  - Neither need a development freeze, nor double work.
  - All custom code adaptation performed in the sandbox is retrofitted into the newly converted development system.
  - Suitable for systems with large amounts of custom code and an intense ongoing custom development.
  - Requires SAP Solution Manager 7.2 SP8 or higher

## **Downtime Optimized Conversion | with Software Update Manager**







#### **Standard Conversion**

 Software Update Manager (SUM)

#### **New: Downtime Optimized Conversion**

- SUM + optimizing downtime through conversion of selected data during uptime & parallel processing
- Currently available upon request
- SAP Note 2293733 for prerequisites and restrictions
- Email to <u>SAP\_S4HANA\_DOC@sap.com</u> for project requests

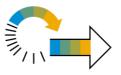
#### **Near-Zero-Downtime Technology**

- SAP DBS Service
- Available for 1610, 1709, 1809

Live example

SAP ECC 6.0 EHP0, all languages, Oracle **17.7 TB** 







SAP S/4HANA 1709 **5 TB** HANA 2.0

Total conversion runtime: 111 h

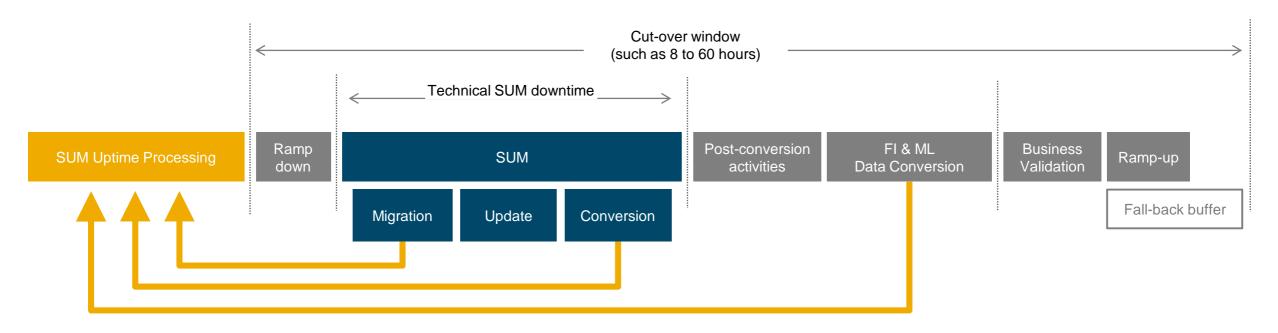
SUM technical downtime 24h 20' (incl. FI conversion)

### **Downtime Optimized Conversion | with Software Update Manager (SUM)**

Reducing technical downtime by partially moving activities to uptime processing of SUM

- Table conversion (FIN, MM-ML, MM-IM)
- Field conversion (KONV, VBFA tables)
- Migration of selected big application tables (w/o conversion)
- Delta replay mechanism ensures that any uptime changes are considered





### Finance Migration | Helping to check you finance data prior to conversion

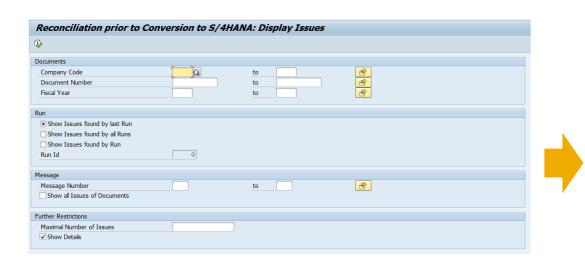
#### **HOW TO FIND**

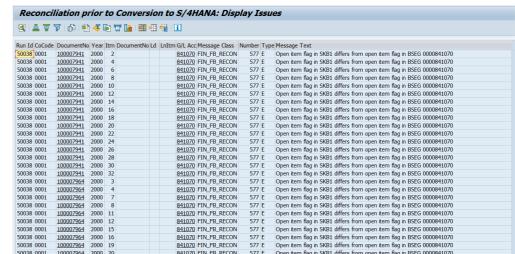
<u>2755360</u> – Reconciliation prior to S/4HANA Conversion:

- Perform data consistency checks for FI-GL on any DB
- Plan data clean-up prior to conversion

#### **HOW TO RESOLVE**

<u>2714344</u> – Financial data migration to SAP S/4HANA: Most frequent Error Messages – Information and Recommendations





# **Business Partner** | Helping to prepare your customer / vendor data for conversion

- Master data consistency check report check customer & vendor data prior to conversion, understand the data quality issues
  - Functional checks on Tax Code, Postal Code, Email, Bank Data, Tax Jurisdiction Code, Address data,
     Trasportation Zone etc.
- Supressing checks on individual data fields useful in test or sandbox conversion
- CVI\_COCKPIT a guided implementation wizard for seamless BP synchronization + TCI notes wizard (simplifies manual installation of 100+ Notes)
  - Read the blog
- OSS Note <u>2743494</u>, <u>2832085</u>

## S/4MOVE Business Partner CVI – Development Roadmap (2019-2020)



#### ECC EHP8 SP12 (Q1 2019)

- Master Data Consistency Check Report
  - Enables customer to analyze the issues in the customer / vendor data upfront of real synchronization process
- Field checks suppression
  - Enables faster load synchronization by suppressing known inconsistencies in non-productive systems



## ECC EHP8 SP13 (Q3 2019)

- New CVI Cockpit
  - Bring the multitude of discrete CVI process components under one standard guided Cockpit
  - Integrates all the steps during a conversion and serves as a guided implementation wizard for conversion
- Collective Notes based on TCI
  - Simplified installation of 150+ prerequisite notes required before starting conversion project



#### ECC EHP8 SP14 (Q1 2020)

- Master Data Consistency (New features)
  - Enhanced Master data consistency check report with inline bulk correction / update capability
- CVI Customizing Checks Automation
  - Improvised version of the former CVI\_UPGRADE\_CHECK\_RESOLVE with a very simplified user experience
- BP/CVI integration with Readiness Check dashboard
  - Get an overview of data volume and effort drivers for BP conversion at the very outset

# **New Implementations**

### **Data Migration | SAP's tools for data migration in SAP S/4HANA projects**

SAP's recommended tool for data load in new implementations is the SAP S/4HANA migration cockpit

You may want to employ complementary tools depending on the following factors:

- Number and variety of data sources
- Required data transformations and business rules
- Amount of data construction required
- Data quality
- Project team size and the resulting intensity of collaboration

3rd party ETL tools

SAP Advanced Data Migration by Syniti

SAP Data Services

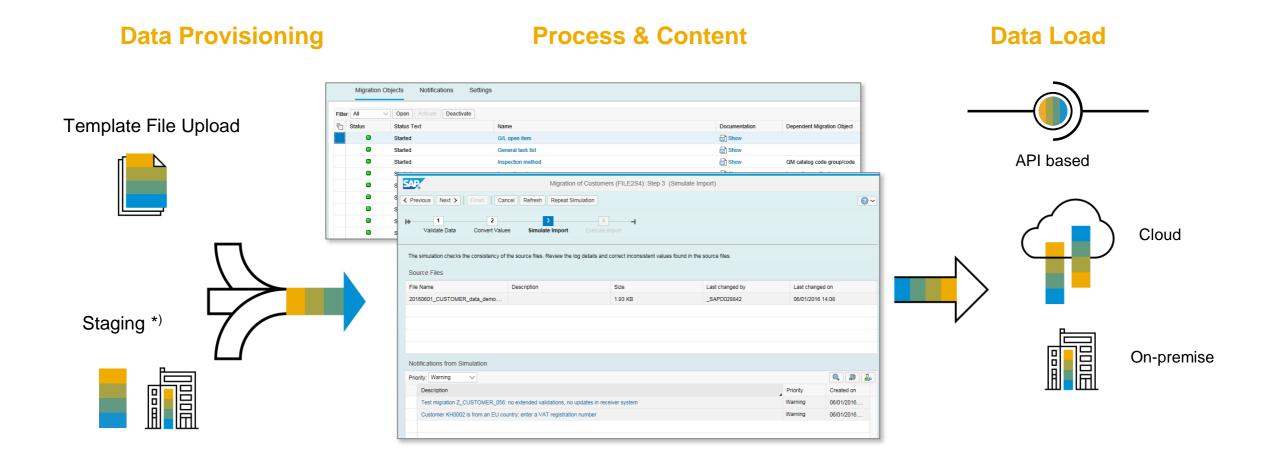
SAP S/4HANA migration cockpit

DATA MIGRATION ORCHESTRATION

DATA EXTRACTION, TRANSFORMATION AND CLEANSING

DATA TRANSFORMATION, MAPPING & LOAD

### **Data Migration | SAP S/4HANA Migration Cockpit – traditional capabilities**

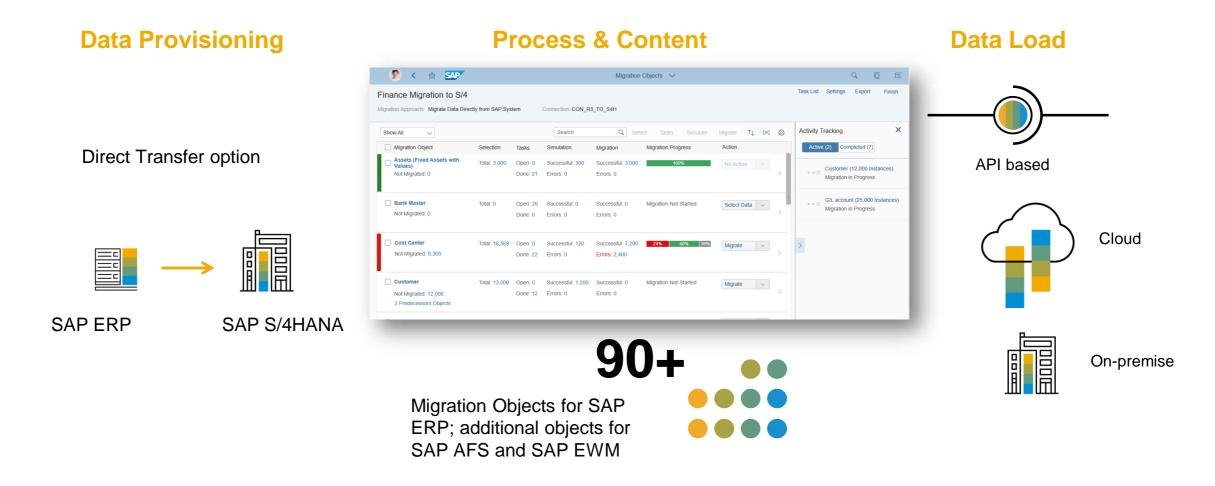


\*Available for on-premise as of 1709 FPS01

#### **Data Migration | Migration Cockpit with SAP S/4HANA 1909**

http://help.sap.com/S4 OP DM - Help on data migration

http://help.sap.com/S4\_OP\_MO - Available migration objects

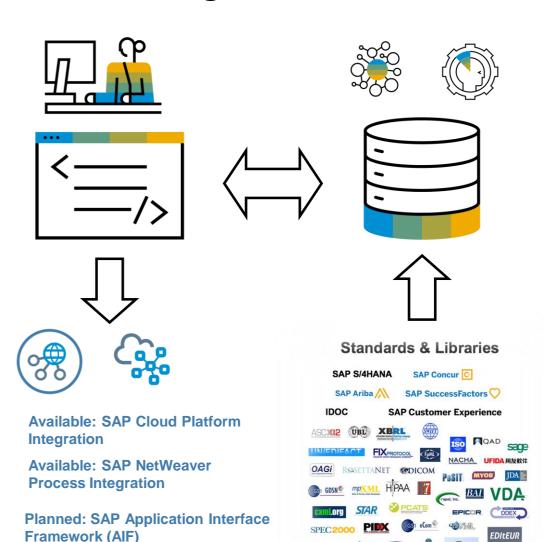


## Reduced Integration Efforts | SAP Cloud Platform Integration Advisor

Designed to accelerate each & every interface implementation, learn continuously, and aims to reduce efforts by 60% or more

- Available since February 2018
- An intelligent content management system for SAP software integration
- Machine Learning + Crowd Sourcing
- Contextual proposals for interface semantics & mappings – by country & industry
- Automated generation of runtime artifacts and documentation





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Planned: SAP API Business Hub

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