Supporting girls who code

http://bit.ly/saponlinetrack-fundraiser

[SOT102]

S/4HANA Custom Code Adaptation

Jörg Knaus

May 30th, 2020

13:05 - 14:05 UTC

How can i create s/4hana ready custom code or adapt existing code to S/4HANA. Overview of the Process and Tools. Simplification List. ATC. Custom Code Fiori Demo. Eclipse Quick Fixes. Examples from Real World.

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Agenda

- What needs to be changed (and why)
- Custom Code Adaptation Process
- Tools
  - Code Usage Analysis
  - ABAP Test Cockpit
  - Eclipse Quick Fixes
  - Custom Code Migration Fiori
- Where should I start today
  - (also in SAP ECC)
- Q & A (Youtube Chat)

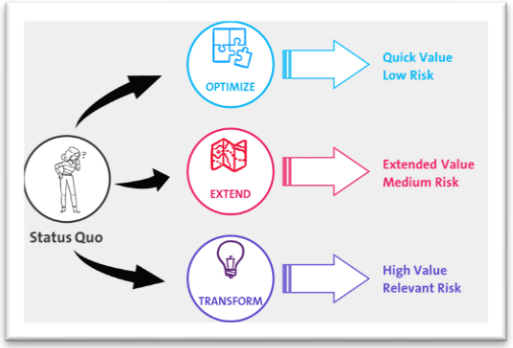
4 Main Questions for S/4 Transformation Projects

What

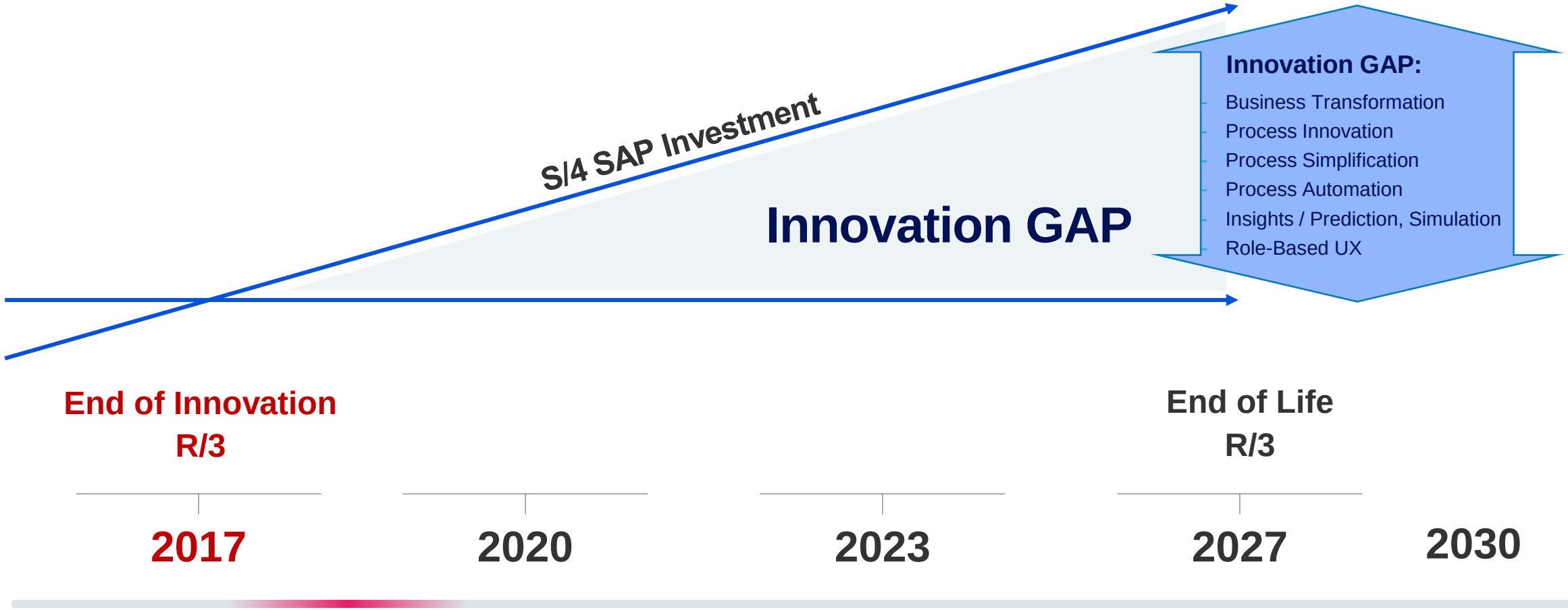
Why

How

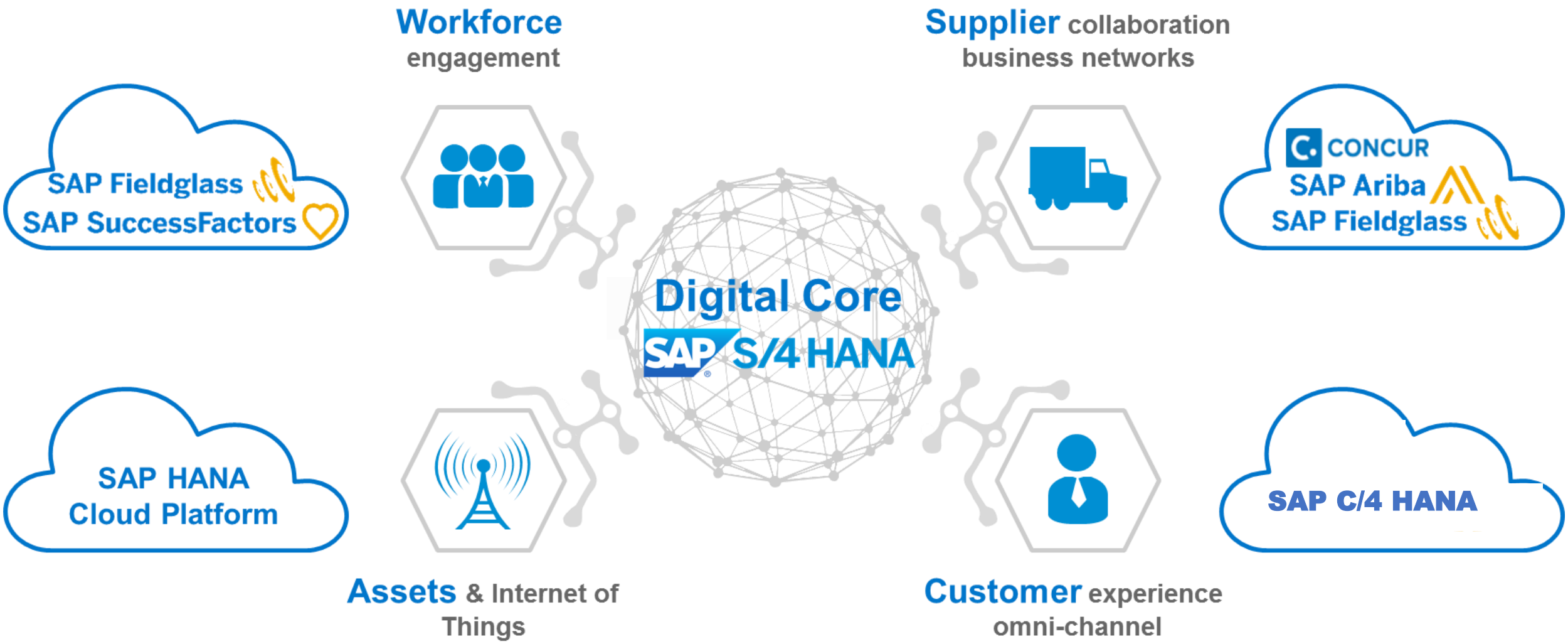
When



It’s not only 2027…



SAP S/4HANA, the next generation business suite

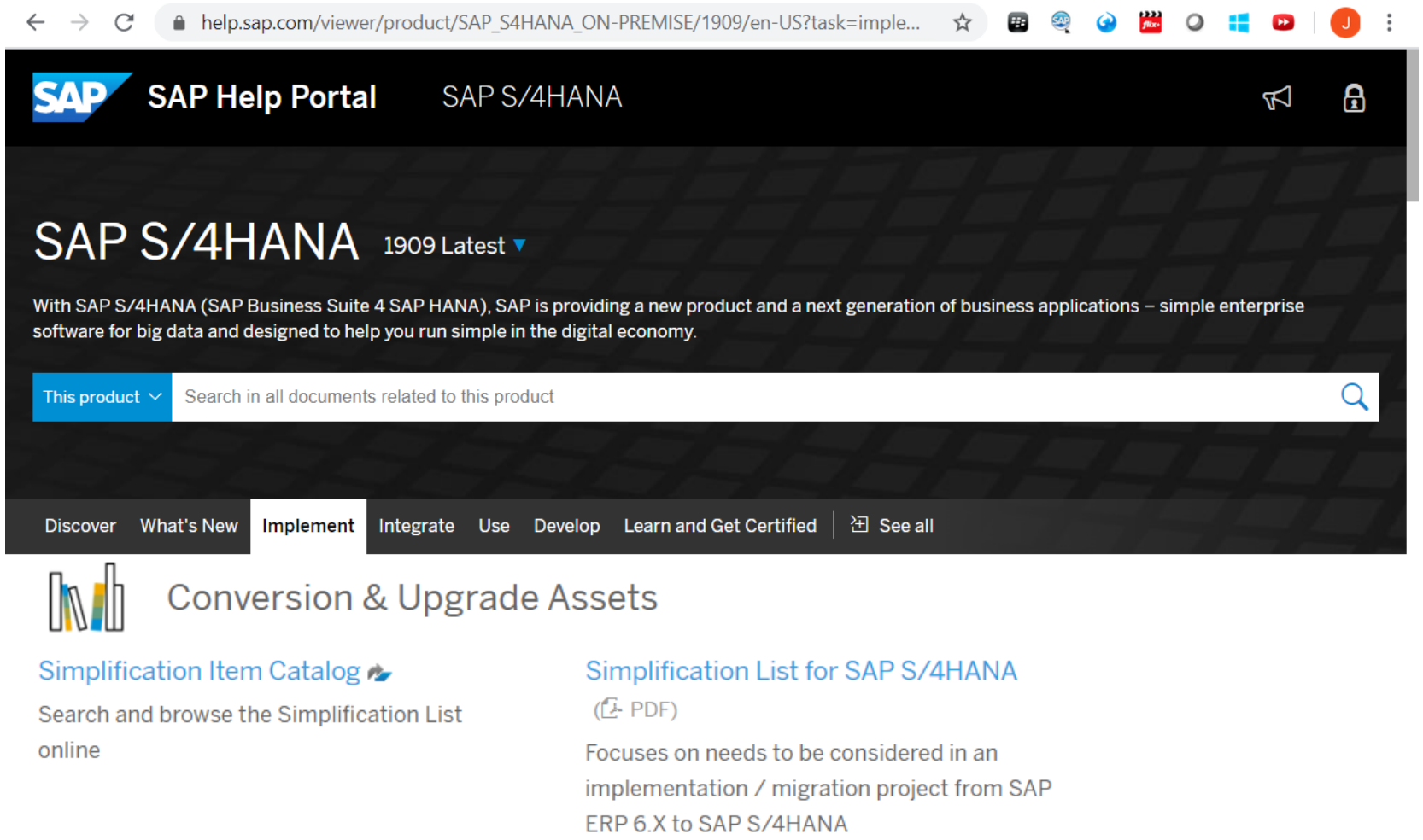


S/4 HANA Simplification List Highlights

LOB	Function	Function	New Function
FI/SD	Customer / Vendor	XD01 usw.	Business Partner / CVI
SD	Credit Management	Replaced by new Functionality	FSCM Credit Management
MM	Material Master	New Data Model	Material Number 40 Characters
SD	Sales Activities	Replaced by C/4	S/4HANA Customer Management or C/4
SD	Foreing Trade	Some Functionalities Replaced	SAP GTS on separate Instance or 3rd Party
SD	Rebate Processing	Replaced by new Functionality	Settlement Management
MM	Classic MM Transactions ME21, ME27, ME51 etc.	Not available	Use new Transaction Codes ME21n etc.

Examples

Simplification list on help.sap.com



Old Data Model

SAP S/4HANA Architecture and Components

Simplified data model

SALES

	Document Header		Document Item			
Sales Order	VBAK		VBAP		VAKPA	VAPMA
Delivery	LIKP		LIPS		VLKPA	LKPMA
Billing Document	VBRK		VBRP		VRKPA	VRPMA
Status Info	VBUK		VBUP			
Conditions		KONV			VBOX	
Document Flow		VBFA				

FINANCE

	Document Header	Document Item		Totals			Indices		
GL, AR, AP	BKPF	BSEG		GLT0	KNC1	KNC3	BSIS	BSAS	BSIK
				LFC1	LFC3		BSID	BSAD	BSAK
New GL		FAGLF LEXA*		FAGLF LEXT*			FAGL BSIS	FAGL BSAS	
CO	COBK	COEP		COSS	COSP				
AA	ANEK	ANEP	ANEA	ANLC	ANLP				
ML	MLHD...	MLIT...		MLCD...	MCLR...		BSIM*	CKMI1*	

SAP Business Suite

MATERIAL VALUES

Valuation in MM or Valuation ML

Aggregates: Hybrid: Master Data with Valuated Stock		History				ML Valuation
MBEW		MBEWH	CKMLCR	MLPP	CKMLPP	CKMLPPWIP
EBEW		EBEWH	CKMLPP	MLCR	CKMLCR	CKMLKEPH
QBEW		QBEWH	MLHD	MLCRF	MLCD	CKMLMV004
OBEW		OBEWH	MLIT	MLKEPH	CKLMMV004	

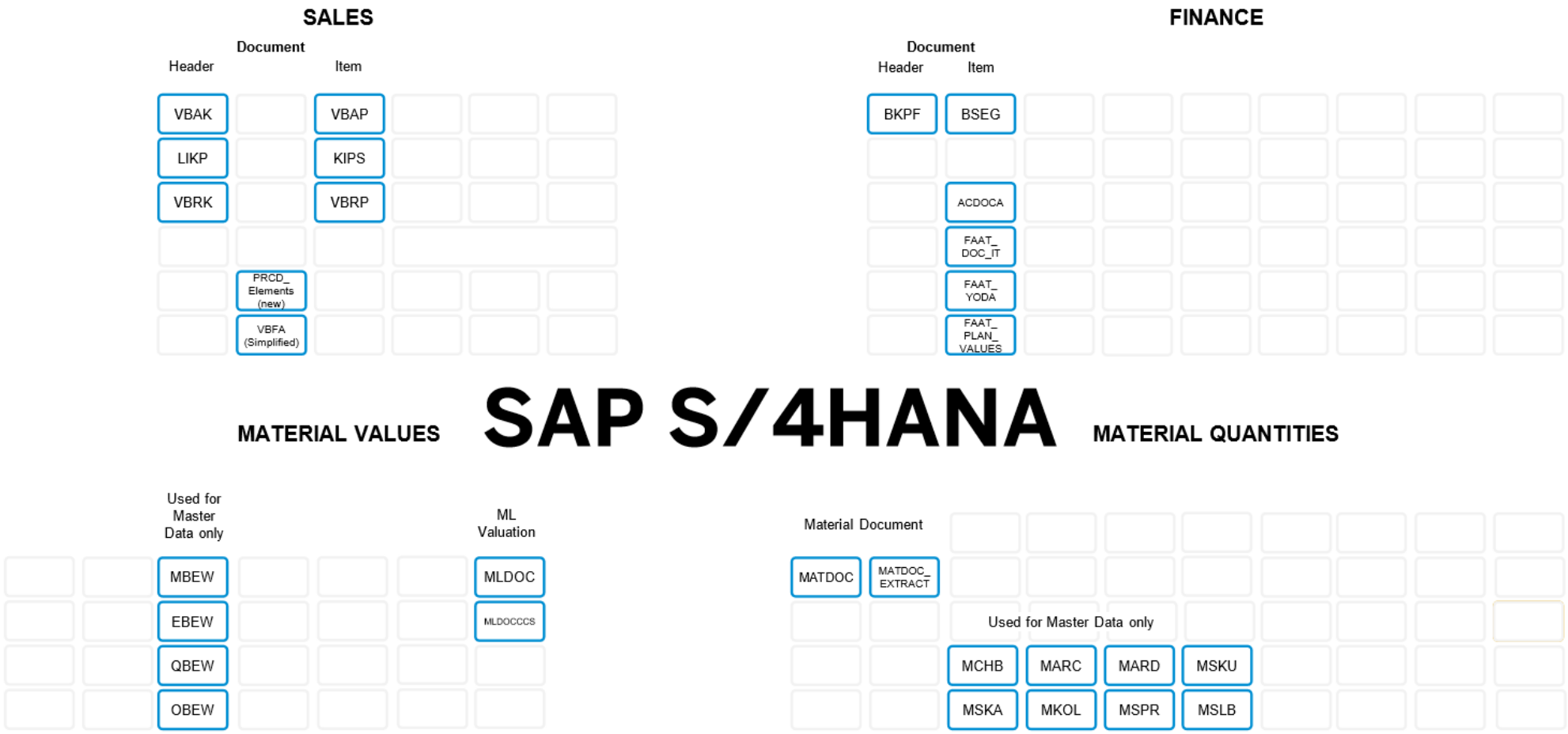
MATERIAL QUANTITIES

		Aggregates: Stock Aggregates				History		
Material Document			MSSA	MSSL	MSSQ	MSSAH	MSTBH	MSSQH
MKPF	MSEG		MSTE	MSTQ	MSTB	MSTEH	MSTQH	
Inventory Movements		Hybrid: Master Data with Stock Aggregates				MARCH	MARDH	
		MCHB	MARC	MARD	MSKU	MSLBH	MCHBH	MSKUH
		MSKA	MKOL	MSPR	MSLB	MSKAH	MSKAH	

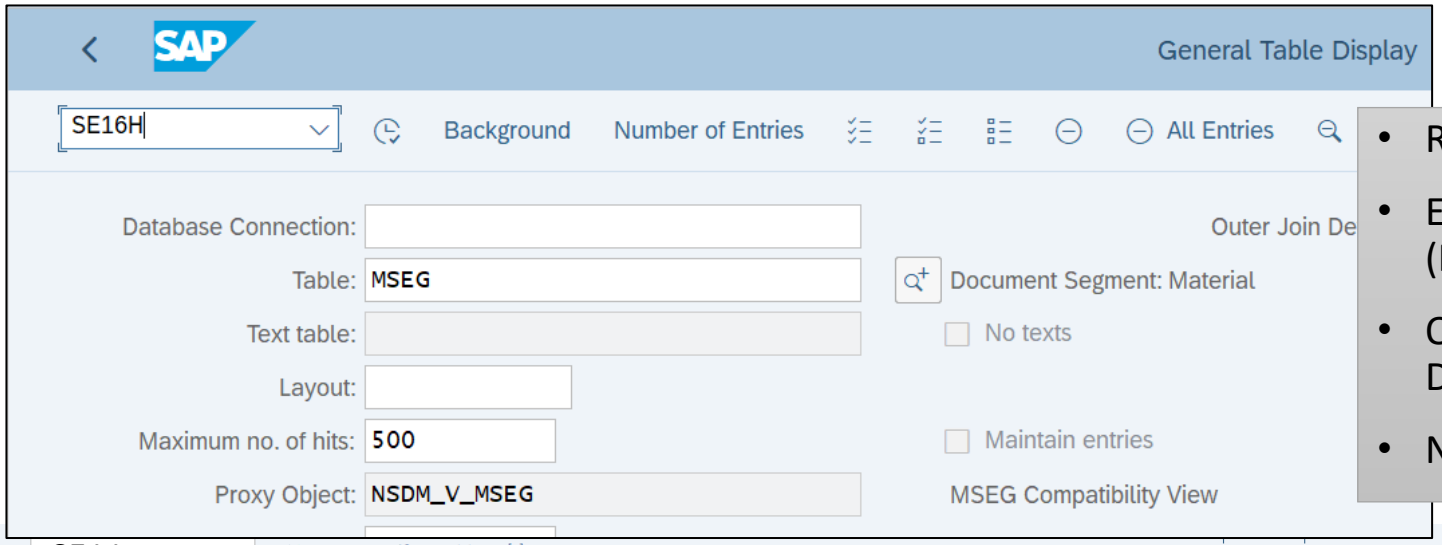
New Data Model

SAP S/4HANA Architecture and Components

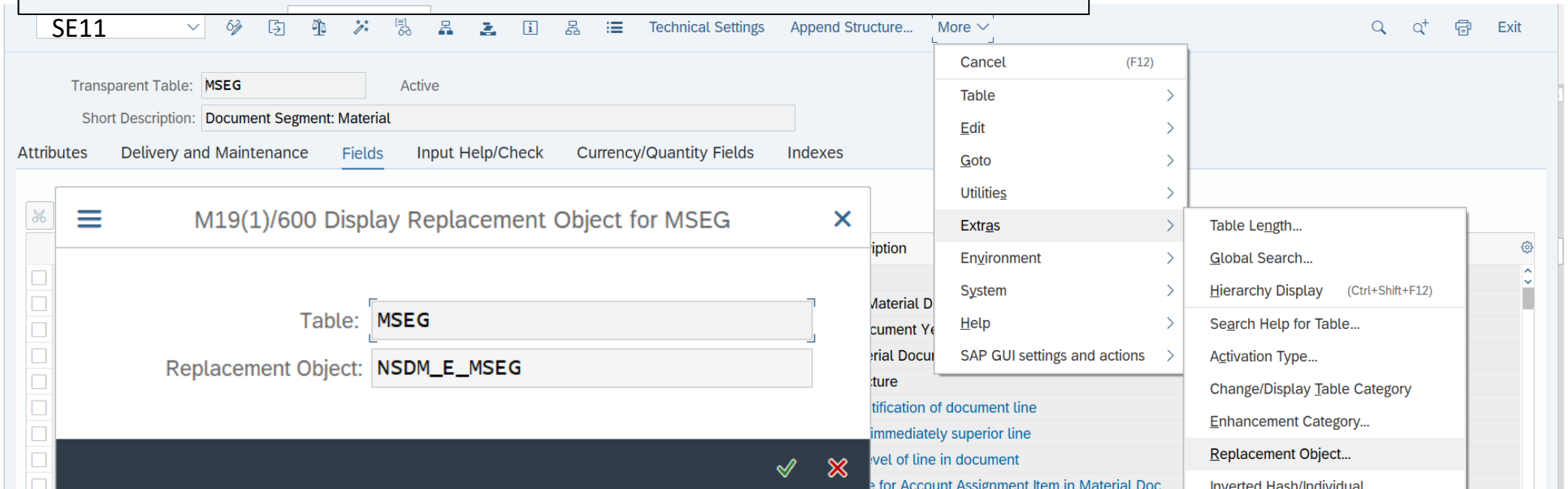
Simplified data model



Compatibility View



- Read Access is still possible for most Tables
- Example: Select on MSEG uses Compatibility CDS View (Proxy) to read data from MATDOC Table
- Old Table is not a Structure but still a Table in Data Dictionary
- No INSERTS/UPDATES on old Tables



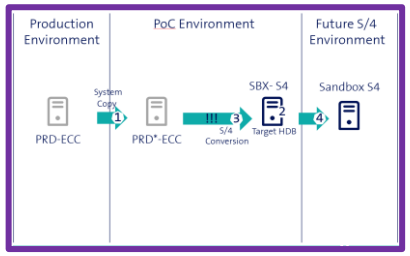
S/4 Conversion Project

System Transformation

On Premise / Cloud

Explore

Sandbox S4

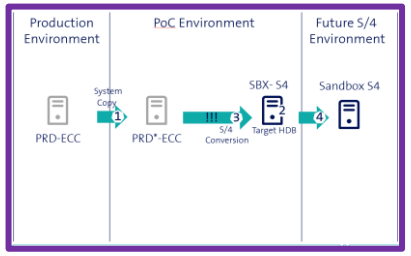


System
1. Conversion

PRD*-ECC

Realize

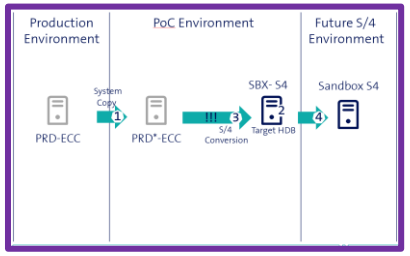
DEV-S4



System
2. Conversion

DEV-ECC

QAS-S4

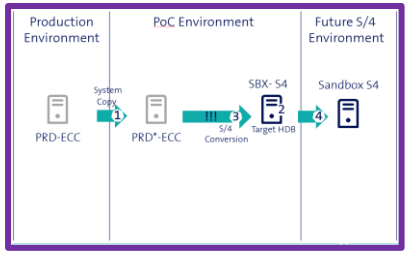


System
3. Conversion

QAS-ECC

Deploy

PRD-S4

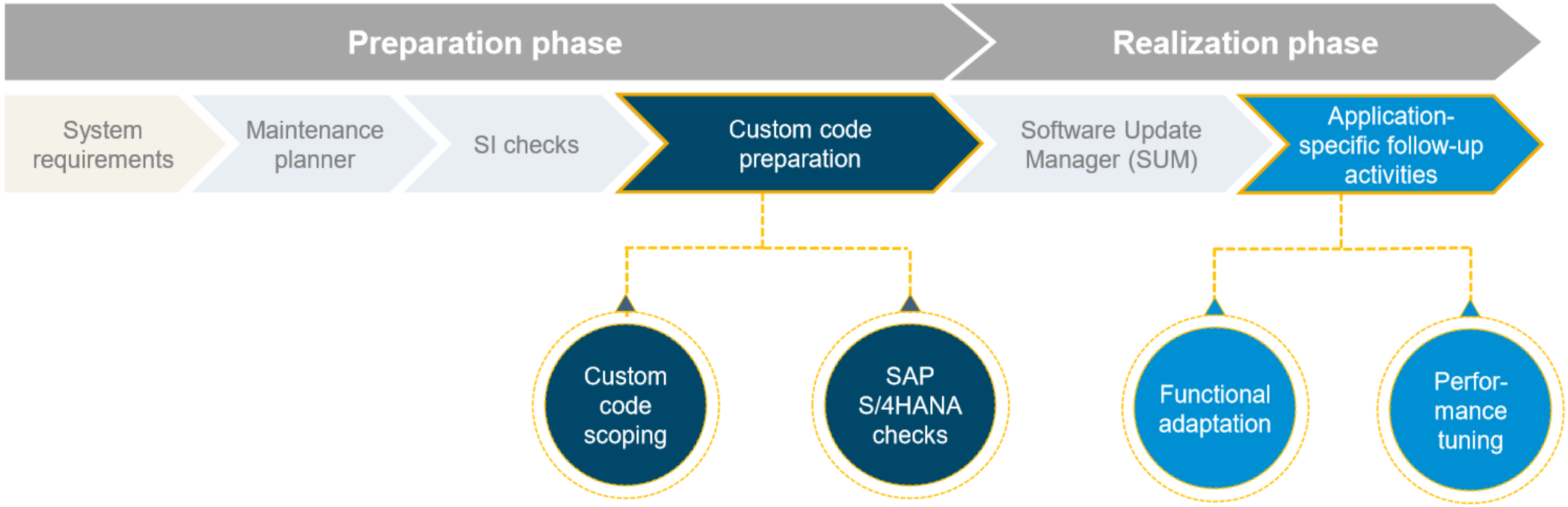


System
4. Conversion

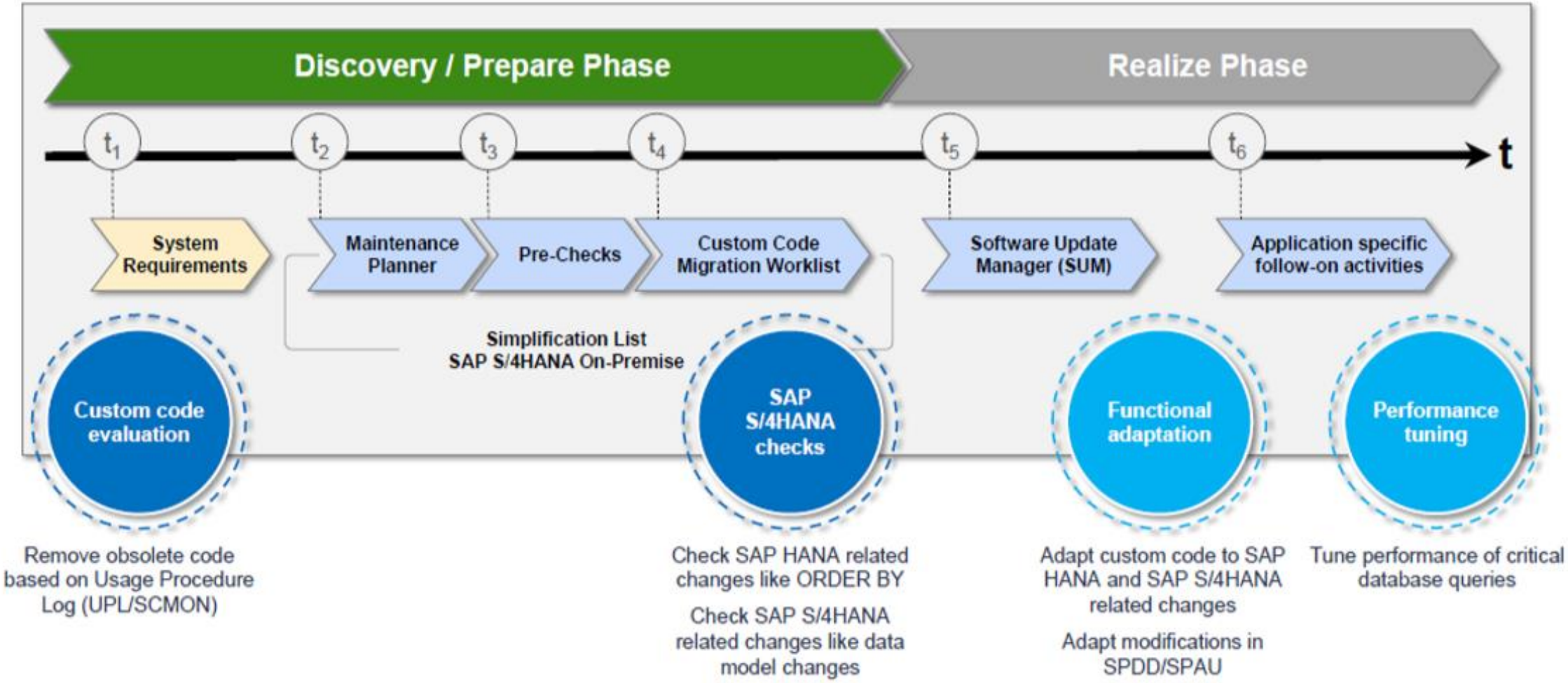
PRD*-ECC

Run

Conversion Procedure



Custom Code Adoption Process



Summary: What needs to be changed

- Unicode
  - /NUCCHECK

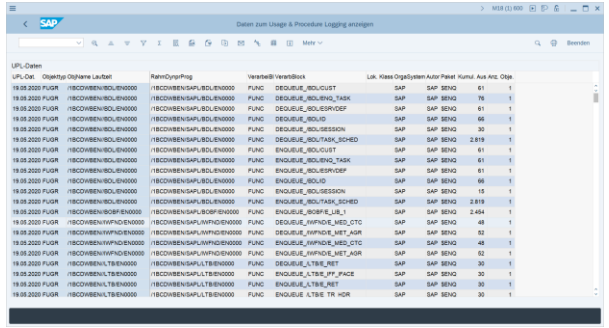
- SQL Statements, if not already on HANA

  Code Inspector FUNCTIONAL_DB and FUNCTIONAL_DB_ADDITION
  (Performance optimization optional)

- Coding changes related to Simplification List
  - ATC Check Variant S4HANA_READINESS

https://blogs.sap.com/2019/06/25/custom-code-adaptation-for-sap-s4hana-faq

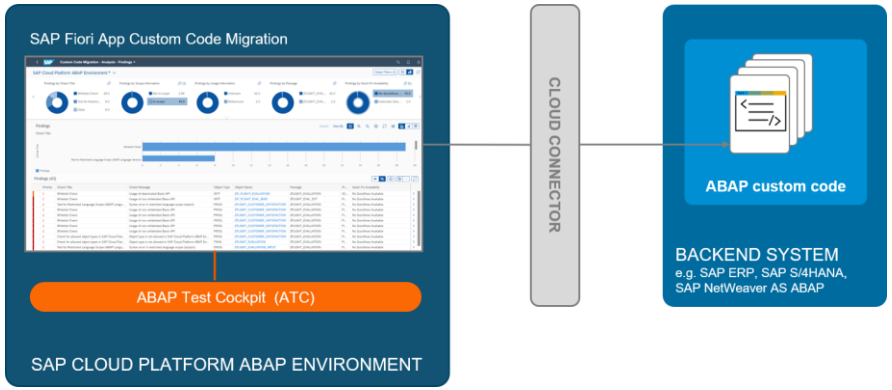
Overview Tools



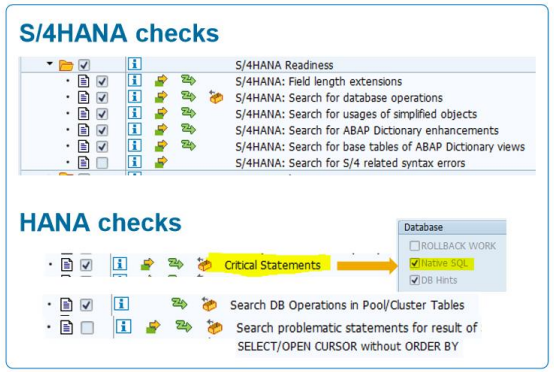
SCMON SUSG

abapGit

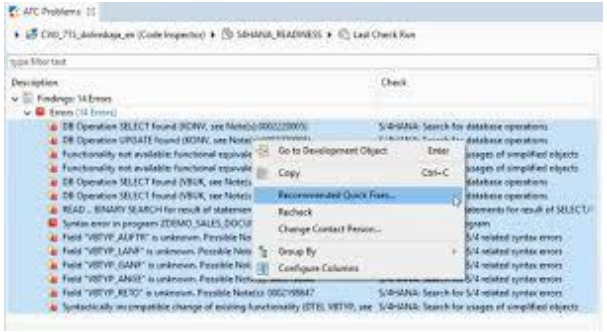
Move unused Code to abapGit



Fiori Custom Code Migration



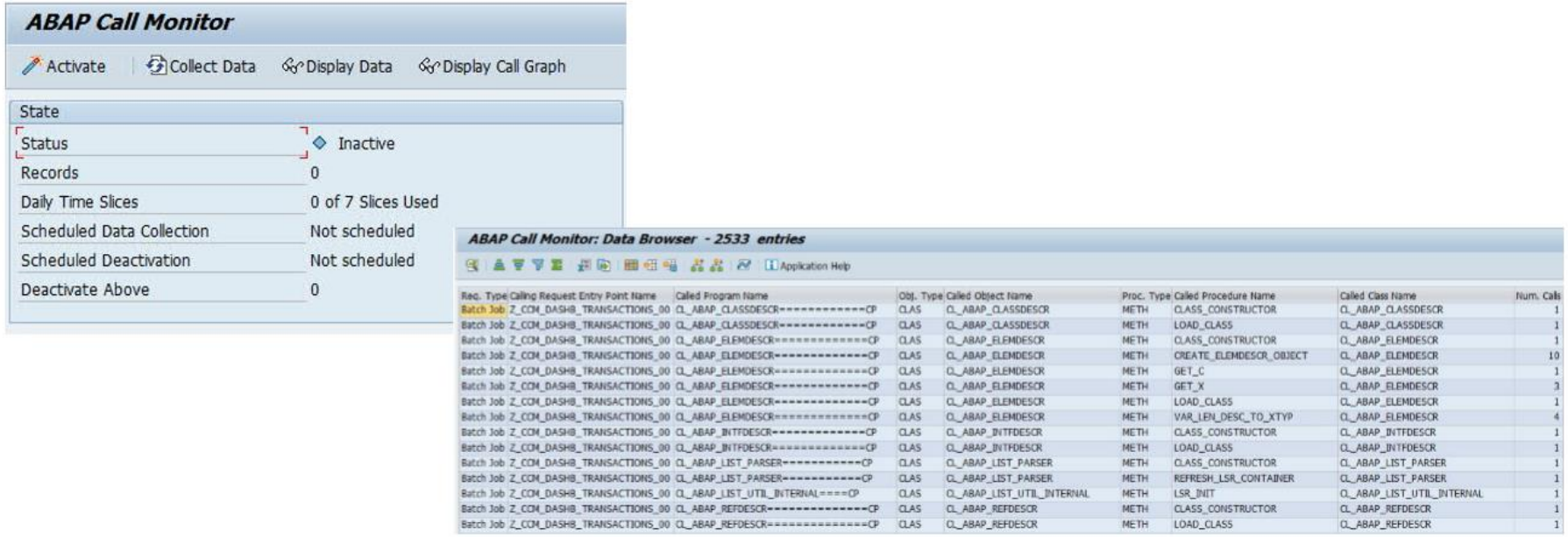
ATC ABAP Test Cockpit



Eclipse ADT and Quickfixes

SCMON

Monitor usage of your custom code via ABAP Call Monitor SCMON (recommended) or Usage Procedure Logging (UPL)



Rec. Type	Calling Request Entry Point Name	Called Program Name	Obj. Type	Called Object Name	Proc. Type	Called Procedure Name	Called Class Name	Num. Calls
Batch Job	Z_CCM_DASHB_TRANSACTIONS_00	CL_ABAP_CLASSDESCR==========CP	CLAS	CL_ABAP_CLASSDESCR	METH	CLASS_CONSTRUCTOR	CL_ABAP_CLASSDESCR	1
Batch Job	Z_CCM_DASHB_TRANSACTIONS_00	CL_ABAP_CLASSDESCR==========CP	CLAS	CL_ABAP_CLASSDESCR	METH	LOAD_CLASS	CL_ABAP_CLASSDESCR	1
Batch Job	Z_CCM_DASHB_TRANSACTIONS_00	CL_ABAP_ELEMDESCR==========CP	CLAS	CL_ABAP_ELEMDESCR	METH	CLASS_CONSTRUCTOR	CL_ABAP_ELEMDESCR	1
Batch Job	Z_CCM_DASHB_TRANSACTIONS_00	CL_ABAP_ELEMDESCR==========CP	CLAS	CL_ABAP_ELEMDESCR	METH	CREATE_ELEMDESCR_OBJECT	CL_ABAP_ELEMDESCR	10
Batch Job	Z_CCM_DASHB_TRANSACTIONS_00	CL_ABAP_ELEMDESCR==========CP	CLAS	CL_ABAP_ELEMDESCR	METH	GET_C	CL_ABAP_ELEMDESCR	1
Batch Job	Z_CCM_DASHB_TRANSACTIONS_00	CL_ABAP_ELEMDESCR==========CP	CLAS	CL_ABAP_ELEMDESCR	METH	GET_X	CL_ABAP_ELEMDESCR	3
Batch Job	Z_CCM_DASHB_TRANSACTIONS_00	CL_ABAP_ELEMDESCR==========CP	CLAS	CL_ABAP_ELEMDESCR	METH	LOAD_CLASS	CL_ABAP_ELEMDESCR	1
Batch Job	Z_CCM_DASHB_TRANSACTIONS_00	CL_ABAP_ELEMDESCR==========CP	CLAS	CL_ABAP_ELEMDESCR	METH	VAR_LEN_DESC_TO_XTYP	CL_ABAP_ELEMDESCR	4
Batch Job	Z_CCM_DASHB_TRANSACTIONS_00	CL_ABAP_INTFDESCR==========CP	CLAS	CL_ABAP_INTFDESCR	METH	CLASS_CONSTRUCTOR	CL_ABAP_INTFDESCR	1
Batch Job	Z_CCM_DASHB_TRANSACTIONS_00	CL_ABAP_INTFDESCR==========CP	CLAS	CL_ABAP_INTFDESCR	METH	LOAD_CLASS	CL_ABAP_INTFDESCR	1
Batch Job	Z_CCM_DASHB_TRANSACTIONS_00	CL_ABAP_LIST_PARSER==========CP	CLAS	CL_ABAP_LIST_PARSER	METH	CLASS_CONSTRUCTOR	CL_ABAP_LIST_PARSER	1
Batch Job	Z_CCM_DASHB_TRANSACTIONS_00	CL_ABAP_LIST_PARSER==========CP	CLAS	CL_ABAP_LIST_PARSER	METH	REFRESH_LSR_CONTAINER	CL_ABAP_LIST_PARSER	1
Batch Job	Z_CCM_DASHB_TRANSACTIONS_00	CL_ABAP_LIST_UTIL_INTERNAL====CP	CLAS	CL_ABAP_LIST_UTIL_INTERNAL	METH	LSR_INIT	CL_ABAP_LIST_UTIL_INTERNAL	1
Batch Job	Z_CCM_DASHB_TRANSACTIONS_00	CL_ABAP_REFDESCR==========CP	CLAS	CL_ABAP_REFDESCR	METH	CLASS_CONSTRUCTOR	CL_ABAP_REFDESCR	1
Batch Job	Z_CCM_DASHB_TRANSACTIONS_00	CL_ABAP_REFDESCR==========CP	CLAS	CL_ABAP_REFDESCR	METH	LOAD_CLASS	CL_ABAP_REFDESCR	1

https://blogs.sap.com/2017/04/06/abap-call-monitor-scmon-analyze-usage-of-your-code/

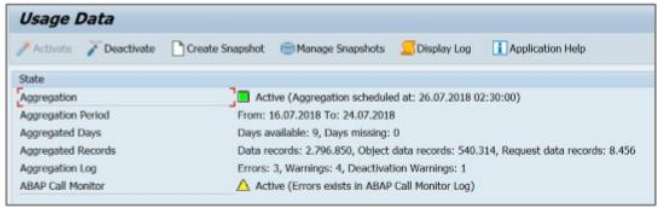
SUSG

Aggregate Usage Data

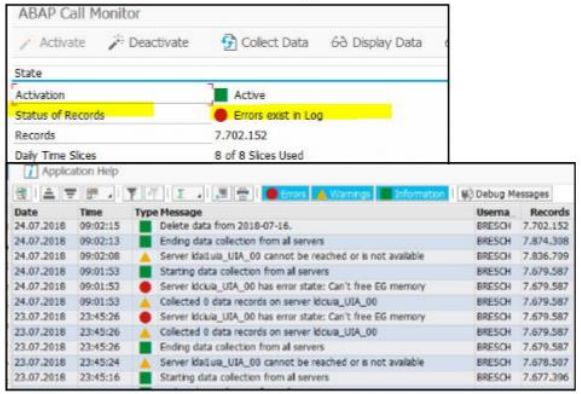
Transaction SUSG aggregates usage data collected by ABAP Call Monitor (transaction SCMON) within production system

- No Solution Manager system is necessary
- Aggregated usage data can be transferred between ABAP systems via remote function calls or file download/upload
- Downport to releases >= SAP_BASIS 7.00 available

SUSG Transaction



SCMON: errors and warnings in the log

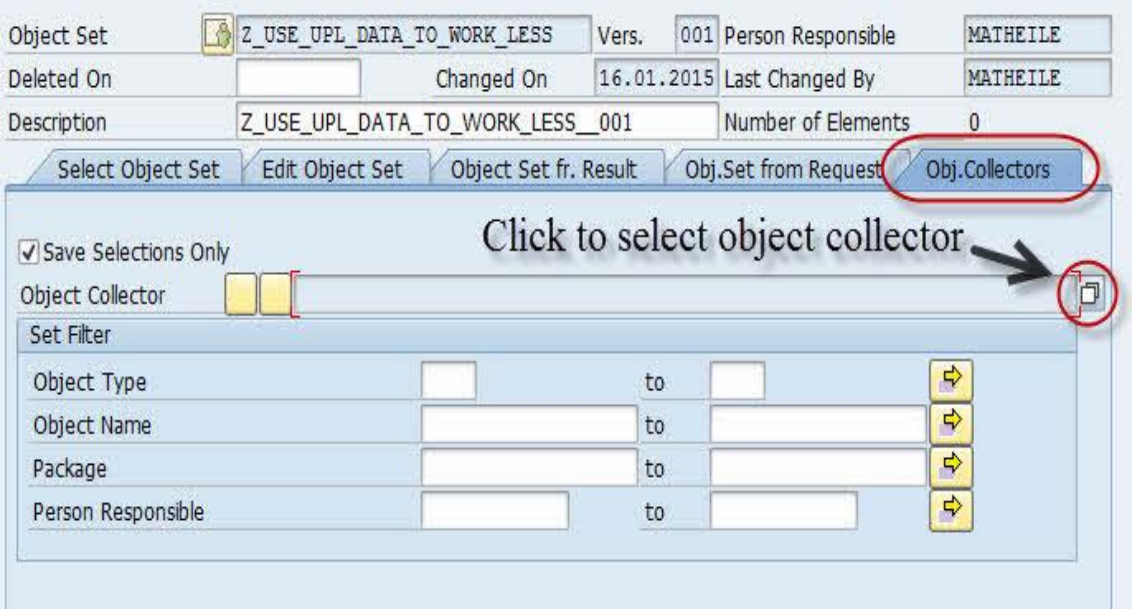


https://launchpad.support.sap.com/#/notes/2643357

https://blogs.sap.com/2019/02/25/susg-how-to-aggregate-and-analyze-the-results-of-scmon-abap-call-statistics-to-do-s4hana-custom-code-housekeeping/

UPL (old version before SCMON)

- **Activate UPL with /NCC_APPS**
- **Usage of UPL in Codeinspector**
  - https://blogs.sap.com/2015/01/18/using-upl-for-doing-just-the-needed-rework/



Code Inspector: Adopt SQL for HANA DB

Ergebnisse Bearbeiten Springen Hilfsmittel Umfeld System Hilfe

Code Inspector: Ergebnisse von Z_FUNCTIONAL_DB 001 20105016

Verantwortlicher 20105016 Inspektion Z_FUNCTIONAL_DB Version 1

Meldungen

D..	...	A..	Tests	Fehler	Warn...	Infor...
			Liste der Prüfungen	167	975	196
			Allgemeine Fehler	95	0	0
			Sicherheitsprüfungen	0	1	0

FUNCTIONAL_DB

Ergebnisse Bearbeiten Springen Hilfsmittel Umfeld System Hilfe

Code Inspector: Ergebnisse von Z_FUNCTIONAL_DB_ADDITION 001 20105016

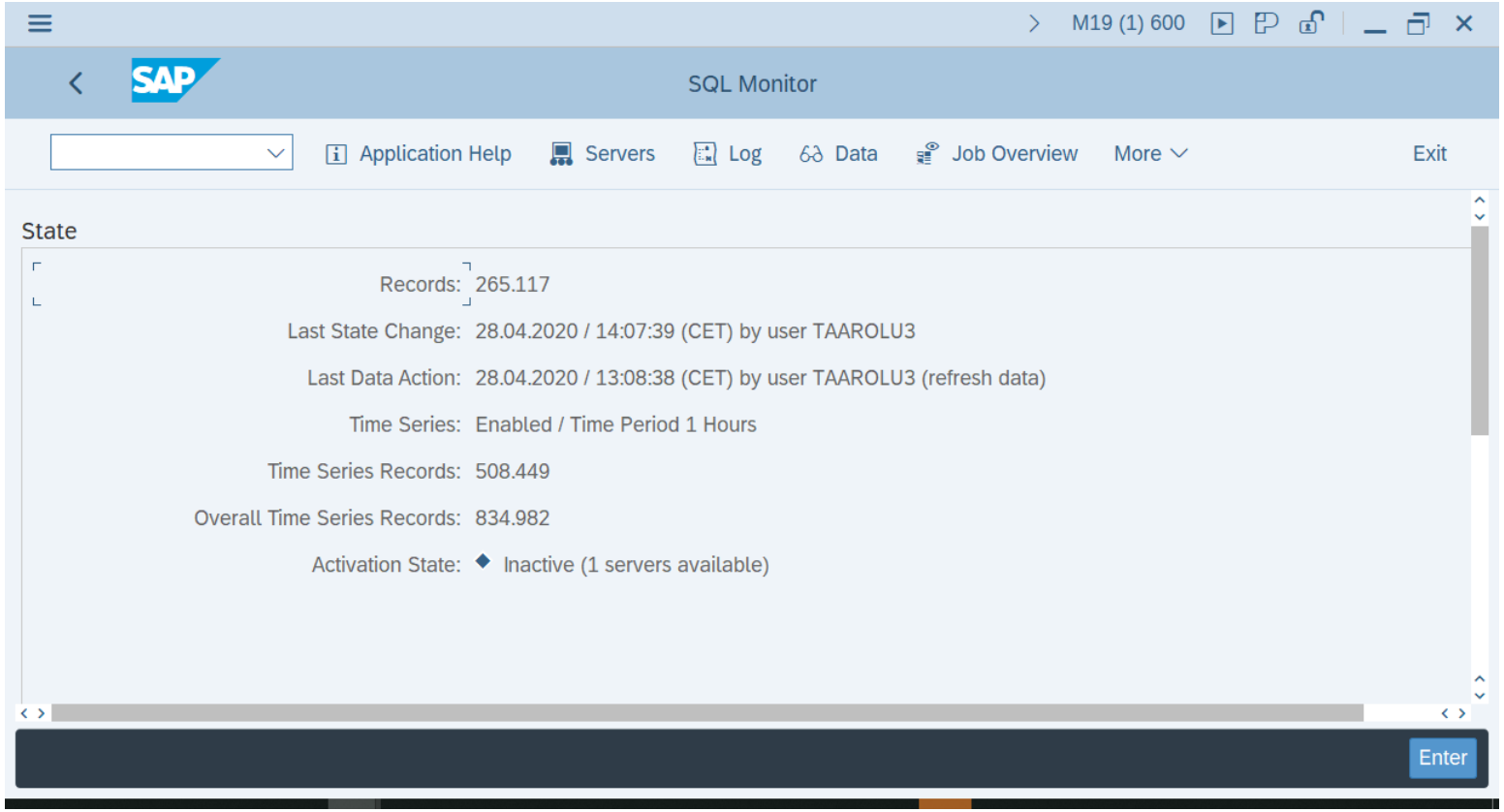
Verantwortlicher 20105016 Inspektion Z_FUNCTIONAL_DB_ADDITION Version 1

Meldungen

D..	...	A..	Tests	Fehler	Warn...	Infor...
			Liste der Prüfungen	426	29	101
			Allgemeine Fehler	95	0	0
			Performance-Prüfungen	331	27	77
			Robuste Programmierung	0	2	24

FUNCTIONAL_DB_ADDITION

SQLM: SQL Monitor



Performance Tuning

Also for Dynamic Statements

S/4HANA Code Check Options

Remote ATC with SAP GUI	Remote ATC with SAP Fiori Custom Code Migration App	Remote ATC with SAP Fiori Custom Code Migration App as a service in SAP Cloud Platform
Central ATC check system **(SAP_BASIS 7.52)** to analyze custom code in the whole system landscape	Central ATC check system **(SAP S/4HANA 1809)** to analyze custom code in the whole system landscape	Central ATC check system **(in SAP Cloud Platform ABAP Environment)** to analyze custom code in **on premise** system landscape
Custom **code evaluation separately** based on and SCMON/UPL usage data and Solution Manager CCLM tools	Custom **code scoping in the Custom Code Migration App** based on SCMON/UPL usage data incl. **deletion of unused code**	SAP S/4HANA checks are executed remotely via Cloud Connector on customer system
Analysis of SAP S/4HANA findings with **Statistics View, simplification information** in ATC result, **navigation** capabilities	Detailed analysis of SAP S/4HANA findings incl. **analytical representation of** ATC result, **filtering by scope and usage data**, **simplification information** in ATC result, **navigation** capabilities	

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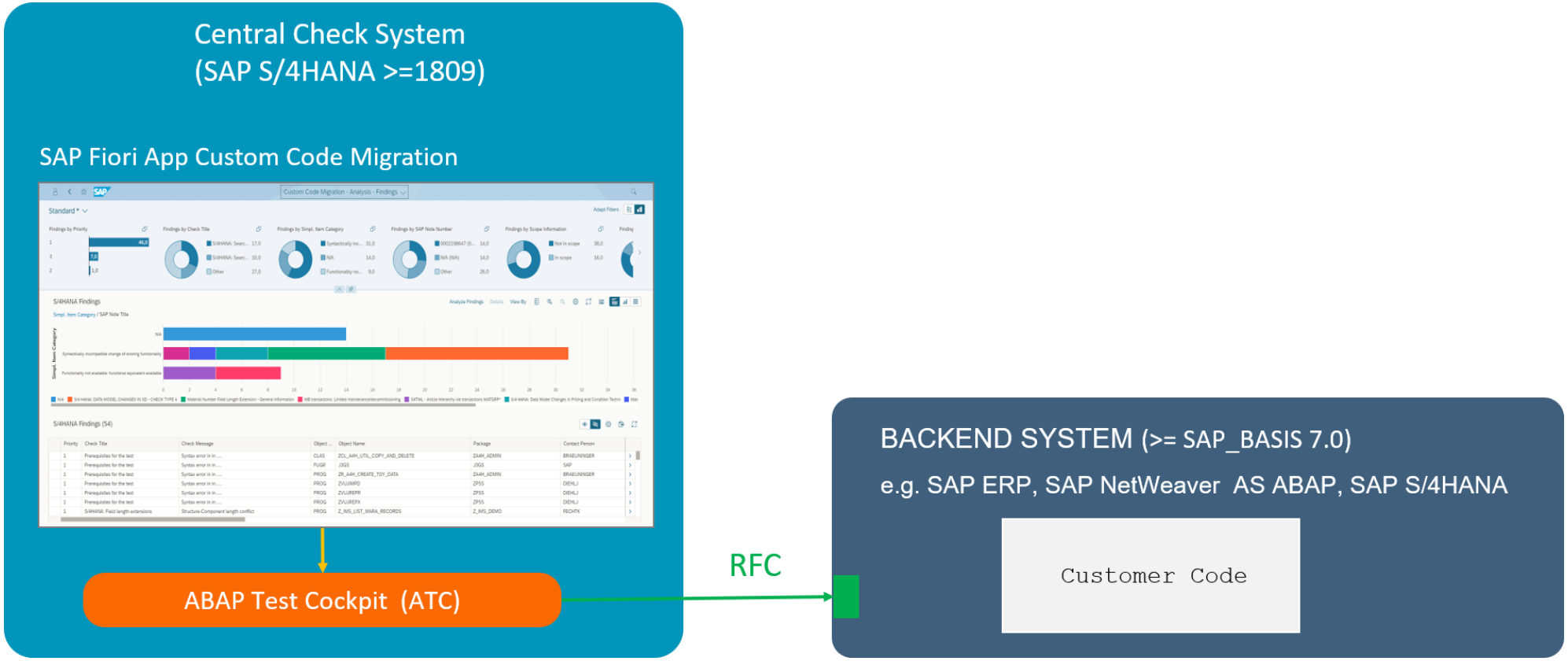
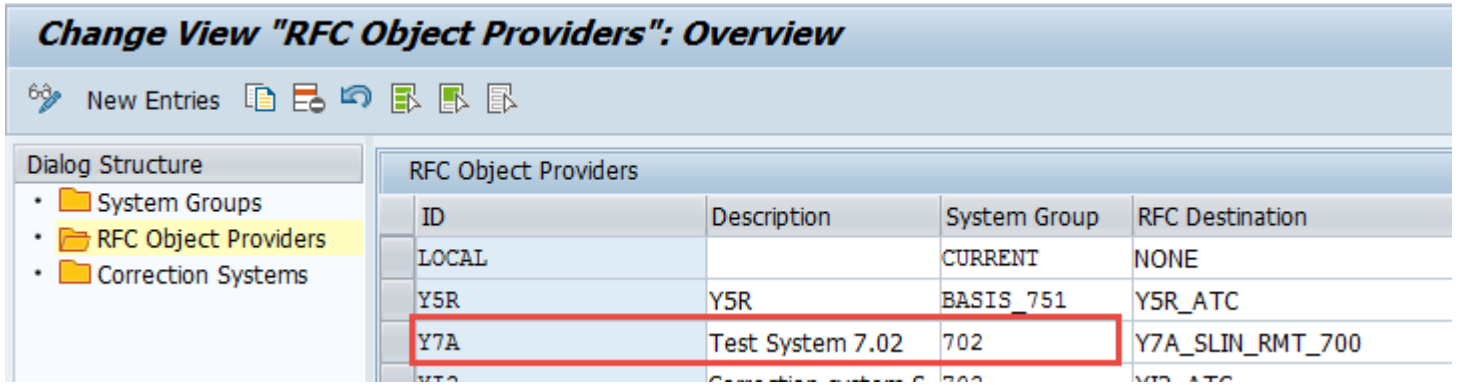
Central ATC Check System



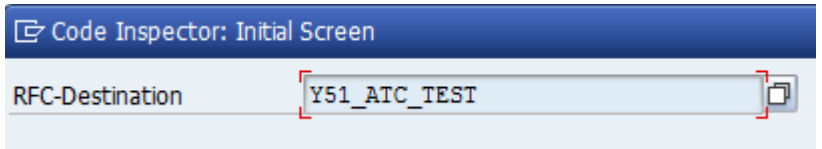
https://blogs.sap.com/2017/02/27/remote-code-analysis-in-atc-for-developers/

Setup Remote Checks

- https://launchpad.support.sap.com/#/notes/0002241080 Download CCMSIDB
- /NSYCM Choose Simplification Database Import from ZIP File
- ATC Setup https://blogs.sap.com/2016/12/13/remote-code-analysis-in-atc-technical-setup-step-by-step/



- Note 2364916 remote functionality
- In your local system the ATC central check system must be maintained by your administrator in the Code Inspector (*Goto->Management of-> Reference check system*):



SAP S/4HANA Readiness Checks

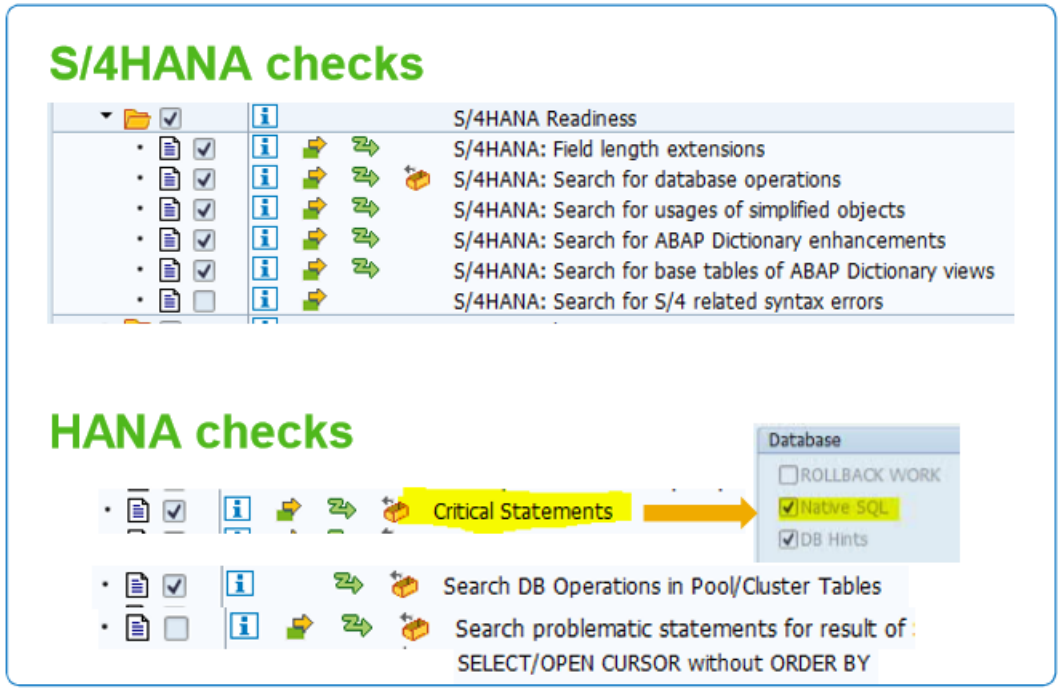
Simplification use cases

- Functionality not available anymore
- Data model changes
- Data type changes

HANA use cases

- Use of DB vendor specifics (native SQL)
- DB operations on pool/cluster tables
- SELECT/OPEN CURSOR statements without ORDER BY

Use check variant
S4HANA_READINESS_REMOTE

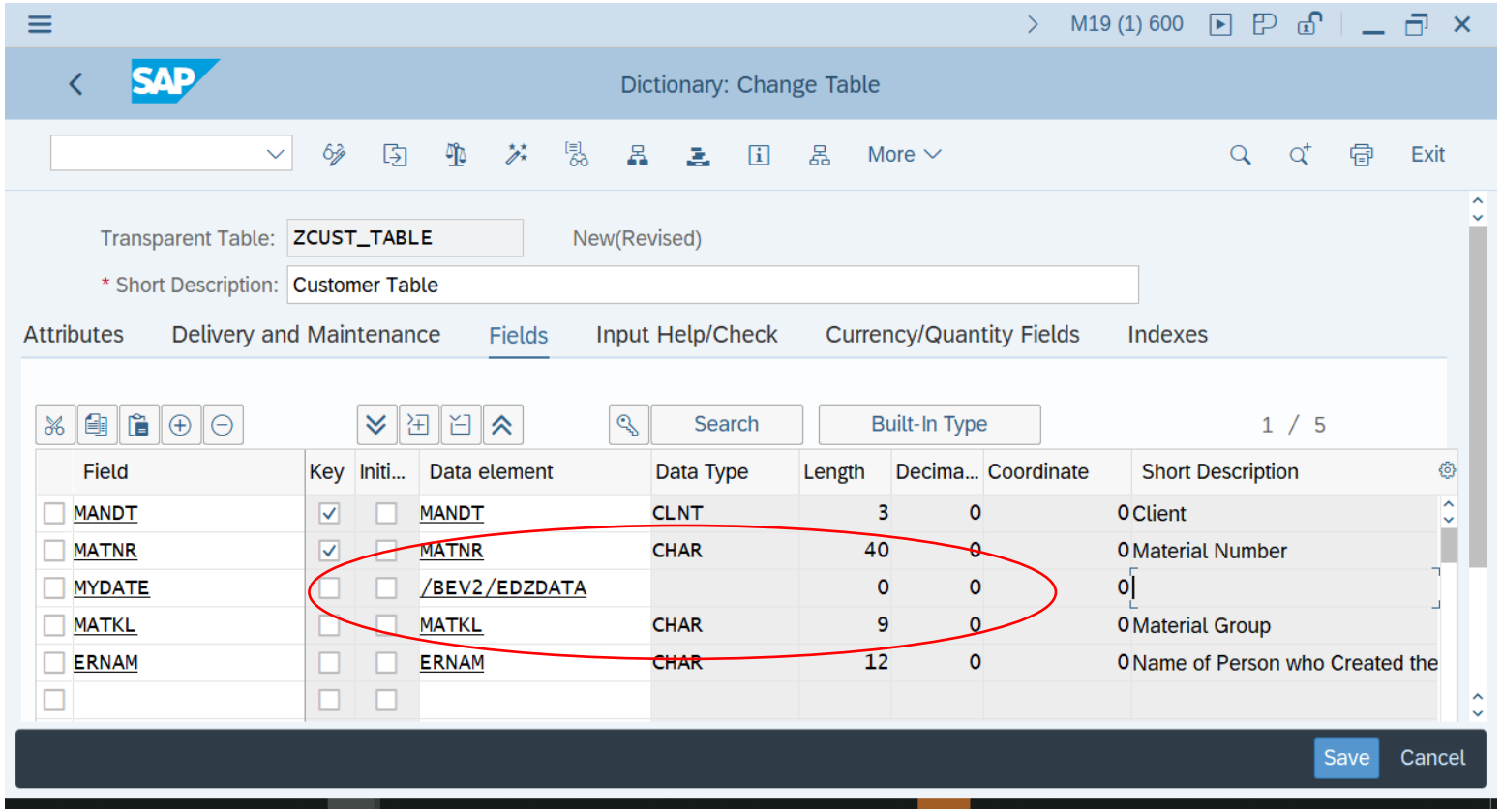


S4HANA_READINESS_REMOTE
includes **S/4HANA** and **HANA** checks

Error Categories

Error	Example
S/4HANA: ABAP-Dictionary-Enhancements	Append structures
S/4HANA: Base Tables of ABAP-Dictionary-Views	If a Table is now a Redirect View itself, avoid views on views
S/4HANA: Field Lenght changes	MATNR = 40 Characters, Currency Fields are longer
S/4HANA: unsupported Database Operations	UPDATE/INSERTS to compatibility Views not possible
S/4HANA: Simplified Objects / Simplficiation List	find missing or unsupported Objects (Transactions, Functions, Structures…)
Critical SQL Statements	Adopt SQL Statemens to HANA (Native DB Statements)
SQL Statements with Missing order by	Column-Store might result in different sorting, add Order by Primary Key if needed
Objects with Syntax Errors	If already a syntax error, code cannot be checked

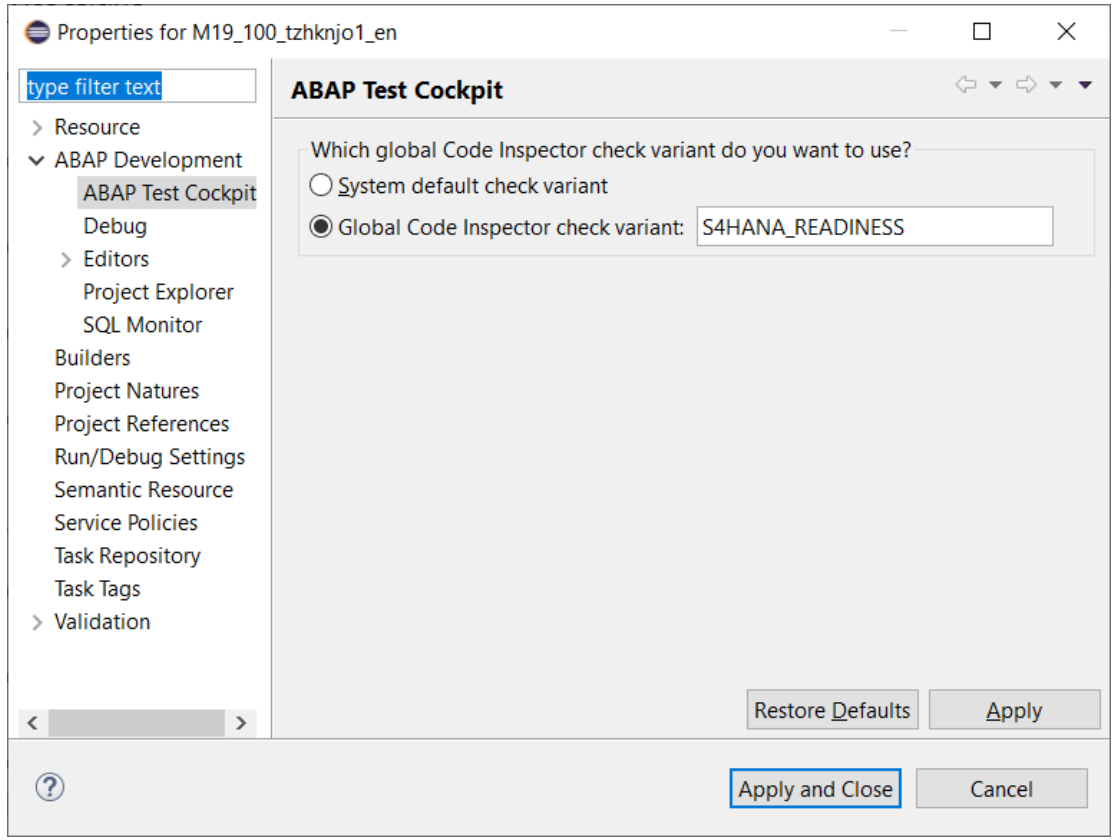
Data Dictionary



In Custom Tables, sometimes there have been Data Elements been used, which don‘t exist any more. For Example from the /BEV/ Beverate Solution

It is easy to adjust this by copying the Element in ECC to a Z-Custom Data element and it will not be lost when moving to S/4HANA.

ATC in Eclipse



Quick Fixes in Eclipse from ATC

workspace_2019_06 - Program Z_CCM_MQF_PRICING [M19] - active - M19_100_tzhknjo1_en - Eclipse Platform

File Edit Navigate Search Project Run Window Help

Project Explorer | CDS Navigator

- M18_600_tzhknjo1_en [M18, 600, TZHKNJO1, EN]
  - Local Objects ($TMP) (?)
  - Favorite Packages (63)
    - Z001 (63) *Customer development class*
  - System Library (?)
- M19_100_tzhknjo1_en [M19, 100, TZHKNJO1, EN]
  - Local Objects ($TMP) (?)
  - Favorite Packages (34)
    - Z_S4TF_CCM_QFIX (34) *Quickfixes Training*
      - Authorizations (1)
      - Source Code Library (33)
        - Classes (1)
        - Programs (32)
          - Z_CCM_ADJUST_CURRENCY_CODE *CustomCo*
          - Z_CCM_BSEG_DATA_CHECK *CustomCode Exar*
          - Z_CCM_LIST_COMPL_SLS_ORDRS *CustomCode*
          - Z_CCM_LIST_MARA_RECORDS *CustomCode Ex*
          - Z_CCM_LIST_MARC_RECORDS *CustomCode Ex*
          - Z_CCM_MATERIAL_EXISTS *CustomCode Examp*
          - Z_CCM_MQF_PRICING *CustomCode Example: F*
          - Z_CCM_MQF_SD *CustomCode Example: SD*
          - Z_CCM_SALES_DOCUMENTS *CustomCode Exa*

Outline

- Z_CCM_MQF_PRICING
  - TY_KONV_CUST
  - KONV
  - LS_KONV
  - LS_KONV_CUST
  - L_DATUM
  - LT_KONV_CUST
  - IV_WHERE
  - LT_KONV
  - LV_VALUE
  - LV_KONV_KRECH
  - L_KRECH
  - L_KSCHL

[M19] ZMW_S4HANA_PRICING | [M19] Z_CCM_MQF_SD | [M19] Z_CCM_MQF_PRICING

Z_CCM_MQF_PRICING

```
"Test case #21 Select Single Star No Target
SELECT SINGLE * FROM konv WHERE kposn = 3.

"Test case #22 Select Single Star No Where
SELECT SINGLE * FROM konv INTO ls_konv.

"Test case #23 Select * No Where
SELECT kschl krech FROM konv INTO TABLE lt_konv.

"Test case #24 Select * Single No Where
SELECT SINGLE kschl krech FROM konv INTO ls_konv.

"Test case #25  Select * into Table KONV APPENDING
SELECT * FROM konv APPENDING TABLE lt_konv .

*"Test case #26  Select * Up To 1 Rows into Table KONV
*select * up to 1 rows from konv into table lt_konv .

"Test case #27  Forbidden Field & Select into Table KONV
SELECT krech FROM konv INTO TABLE lt_konv_cust.

"Test case #28  Forbidden Field & Select into Table KONV APPENDING
SELECT krech FROM konv APPENDING TABLE lt_konv.

"Test case #29  Forbidden Field & Select into Table Cust APPENDING
SELECT krech FROM konv APPENDING TABLE lt_konv_cust.
```

- Go to Development Object — Enter
- Copy — Ctrl+C
- Request Exemption
- Recommended Quick Fixes...
- Quick Fix... — Ctrl+1
- Recheck
- Change Contact Person...
- Group By
- Configure Columns

Feature Explorer

Welcome!

This interactive view allows you to explore the features most favored by the ABAP in Eclipse development team. These are features that will help you get stuff done faster! Interested?

Click here to begin!

Problems | Properties | Task List | Feed Reader | Transport Organizer | Dictionary Log | ATC Problems

M19_100_tzhknjo1_en

type filter text

Description	Object Name	Lin...	Contact ...	Obj...
DB Operation SI	Z_CCM_MQF_PRI	93	TZHBEDUY	PROC
DB Operation SI	Z_CCM_MQF_PRI	96	TZHBEDUY	PROC
DB Operation SI	Z_CCM_MQF_PRI	99	TZHBEDUY	PROC
DB Operation SI	Z_CCM_MQF_PRI	102	TZHBEDUY	PROC
DB Operation SELECT found (KONV S/4HANA: Z_S4TF_CCI	Z_CCM_MQF_PRI	105	TZHBEDUY	PROC
DB Operation SELECT found (KONV S/4HANA: Z_S4TF_CCI	Z_CCM_MQF_PRI	108	TZHBEDUY	PROC
DB Operation SELECT found (KONV S/4HANA: Z_S4TF_CCI	Z_CCM_MQF_PRI	114	TZHBEDUY	PROC

Details

Details of Analysis

- DB Operation SELECT found (KONV, see Note(s):0002220005)
- Finding can be suppressed with pseudo comment "#ECC CI_DB_OPERATION_OK[2220005]
- Metrics:

DEU 11:54

Quick Fix

Quick Fix

Select the fix for 'SELECT ... FOR (former) cluster table KONV without ORDER BY found: Search problematic statements for result of SELECT/OPEN CURSOR without ORDER BY'.

Select a fix:

Append ORDER BY PRIMARY KEY to the SELECT statement

Problems:

Resource	Location
☑ ZMW_S4HANA_PRICING (Program)	line 286

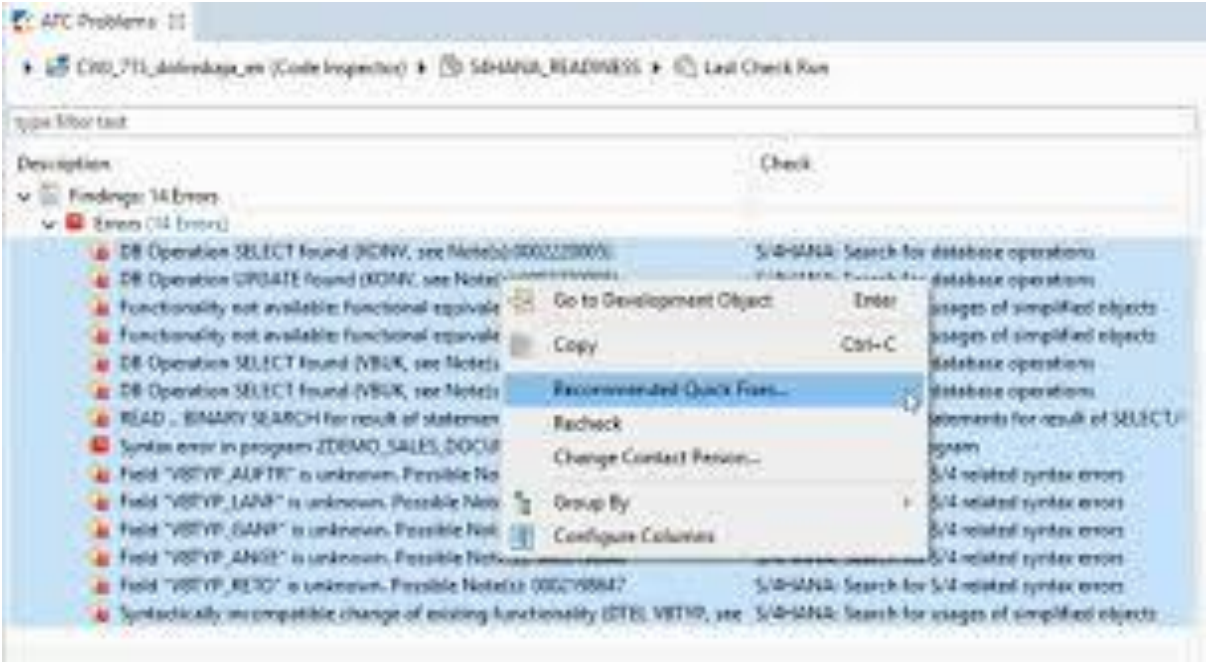
Select All

Deselect All

Finish

Cancel

Mass Quick Fixes (Eclipse ABAP)



- ORDER BY PRIMARY Key
- SELECT FROM VBUK…
- SELECT FROM KONV..

https://blogs.sap.com/2018/10/02/semi-automatic-custom-code-adaptation-after-sap-s4hana-system-conversion/

Quick Fixes: Examples & Comments

- https://blogs.sap.com/2020/05/18/comments-for-the-adt-quick-fixes/

Original Source

```
11            i_kposn like konv-kposn,
12            i_stunr like konv-stunr,
13            i_zaehk like konv-zaehk.
14
15 selection-screen skip.
16
17 parameters: i_waersn like konv-waers obligatory default 'EUR'.
18
19 select single * from konv where knumv = i_knumv
20                              and kposn = i_kposn
21                              and stunr = i_stunr
22                              and zaehk = i_zaehk.
23
24 if sy-subrc = 0.
```

Refactored Source

```
19 TRY.
20
21 CL_PRC_RESULT_FACTORY=>GET_INSTANCE( )->GET_PRC_RESULT( )->GET_PRIC
22   EXPORTING IT_SELECTION_ATTRIBUTE = VALUE #(
23  ( fieldname = 'KNUMV' value = I_KNUMV )
24  ( fieldname = 'KPOSN' value = I_KPOSN )
25  ( fieldname = 'STUNR' value = I_STUNR )
26  ( fieldname = 'ZAEHK' value = I_ZAEHK )
27  )
28   IMPORTING ET_PRC_ELEMENT_CLASSIC_FORMAT = DATA(ETL19C0R7986) ).
29 KONV = ETL19C0R7986[ 1 ].
30 CATCH CX_PRC_RESULT CX_SY_ITAB_LINE_NOT_FOUND .
31   SY-SUBRC = 4.
32 ENDTRY.
```

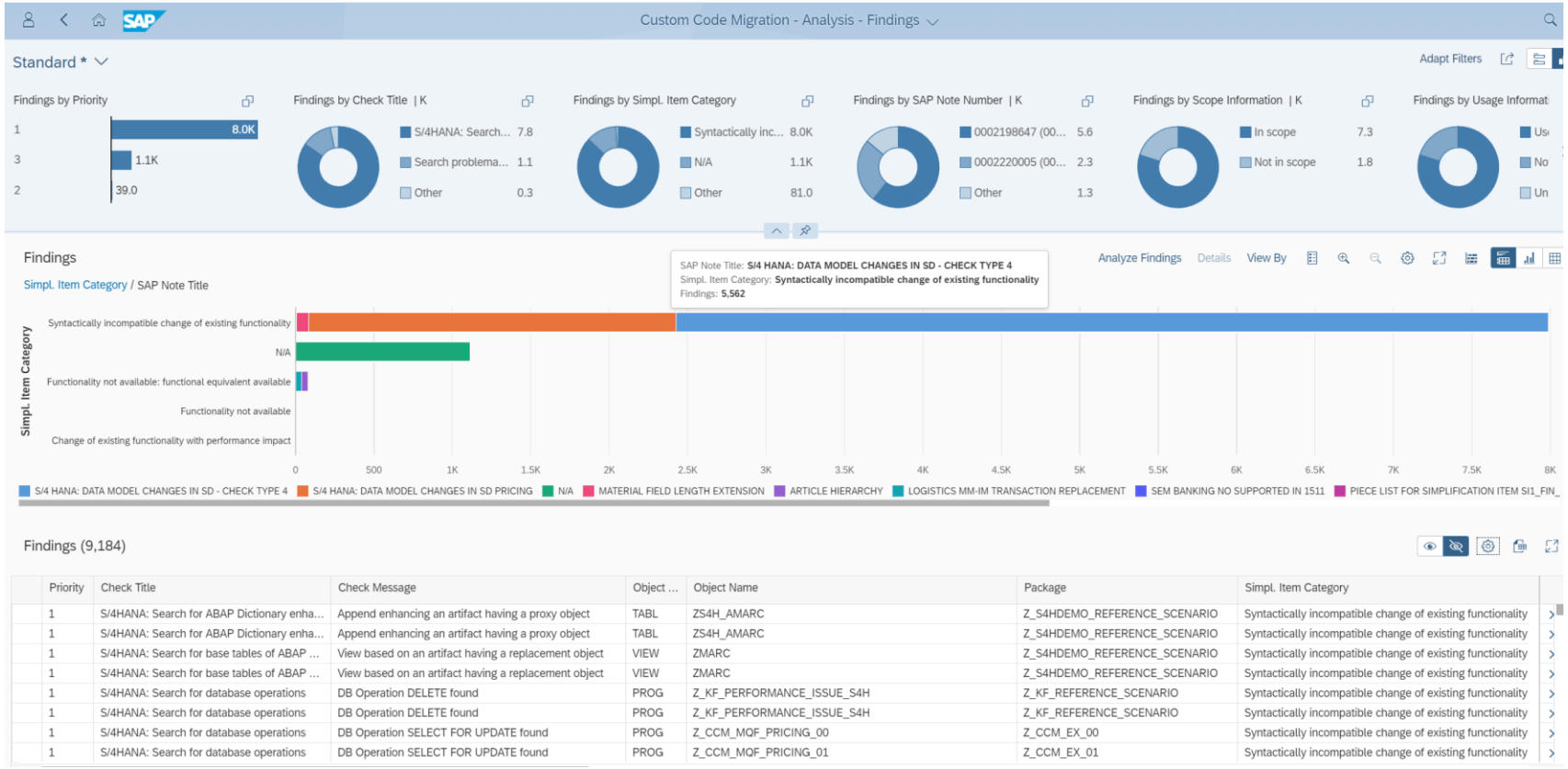
Original Source

```
28 *      where vbeln = lt_vbak-vbeln and gbstk = 'C'.
29
30
31   select * from vbuk
32       into table lt_vbuk
33       for all entries in lt_vbak
34       where vbeln = lt_vbak-vbeln and gbstk = 'C' ORDER BY PRIMARY KEY.
35 * End of Quick Fix
36
37
38   loop at lt_vbak into data(ls_vbak).
39
40     read table lt_vbuk with key vbeln = ls_vbak-vbeln binary search transporting no fi
```

Refactored Source

```
31
32 * Quick Fix Replace VBUK table access with the access of compatibility view V_VBUK_S4
33 * Transport CWJK900919 Demos
34 * Replaced Code:
35 *   select * from vbuk
36 *       into table lt_vbuk
37 *       for all entries in lt_vbak
38 *       where vbeln = lt_vbak-vbeln and gbstk = 'C' ORDER BY PRIMARY KEY.
39
40 SELECT FROM V_VBUK_S4 FIELDS * FOR ALL ENTRIES IN @LT_VBAK WHERE VBELN = @LT_VBAK-VBELN AND GBSTK = 'C' ORD
41 * End of Quick Fix
42
43 * End of Quick Fix
44
```

Fiori Custom Code Migration



Priority	Check Title	Check Message	Object ...	Object Name	Package	Simpl. Item Category
1	S/4HANA: Search for ABAP Dictionary enha...	Append enhancing an artifact having a proxy object	TABL	ZS4H_AMARC	Z_S4HDEMO_REFERENCE_SCENARIO	Syntactically incompatible change of existing functionality
1	S/4HANA: Search for ABAP Dictionary enha...	Append enhancing an artifact having a proxy object	TABL	ZS4H_AMARC	Z_S4HDEMO_REFERENCE_SCENARIO	Syntactically incompatible change of existing functionality
1	S/4HANA: Search for base tables of ABAP ...	View based on an artifact having a replacement object	VIEW	ZMARC	Z_S4HDEMO_REFERENCE_SCENARIO	Syntactically incompatible change of existing functionality
1	S/4HANA: Search for base tables of ABAP ...	View based on an artifact having a replacement object	VIEW	ZMARC	Z_S4HDEMO_REFERENCE_SCENARIO	Syntactically incompatible change of existing functionality
1	S/4HANA: Search for database operations	DB Operation DELETE found	PROG	Z_KF_PERFORMANCE_ISSUE_S4H	Z_KF_REFERENCE_SCENARIO	Syntactically incompatible change of existing functionality
1	S/4HANA: Search for database operations	DB Operation DELETE found	PROG	Z_KF_PERFORMANCE_ISSUE_S4H	Z_KF_REFERENCE_SCENARIO	Syntactically incompatible change of existing functionality
1	S/4HANA: Search for database operations	DB Operation SELECT FOR UPDATE found	PROG	Z_CCM_MQF_PRICING_00	Z_CCM_EX_00	Syntactically incompatible change of existing functionality
1	S/4HANA: Search for database operations	DB Operation SELECT FOR UPDATE found	PROG	Z_CCM_MQF_PRICING_01	Z_CCM_EX_01	Syntactically incompatible change of existing functionality

https://blogs.sap.com/2019/02/27/custom-code-analysis-for-sap-s4hana-with-sap-fiori-app-custom-code-migration/

SAP Fiori Custom Code Migration

Use display criteria ("View by"):

- SAP Note number
- Referenced simplified Object
- Application component

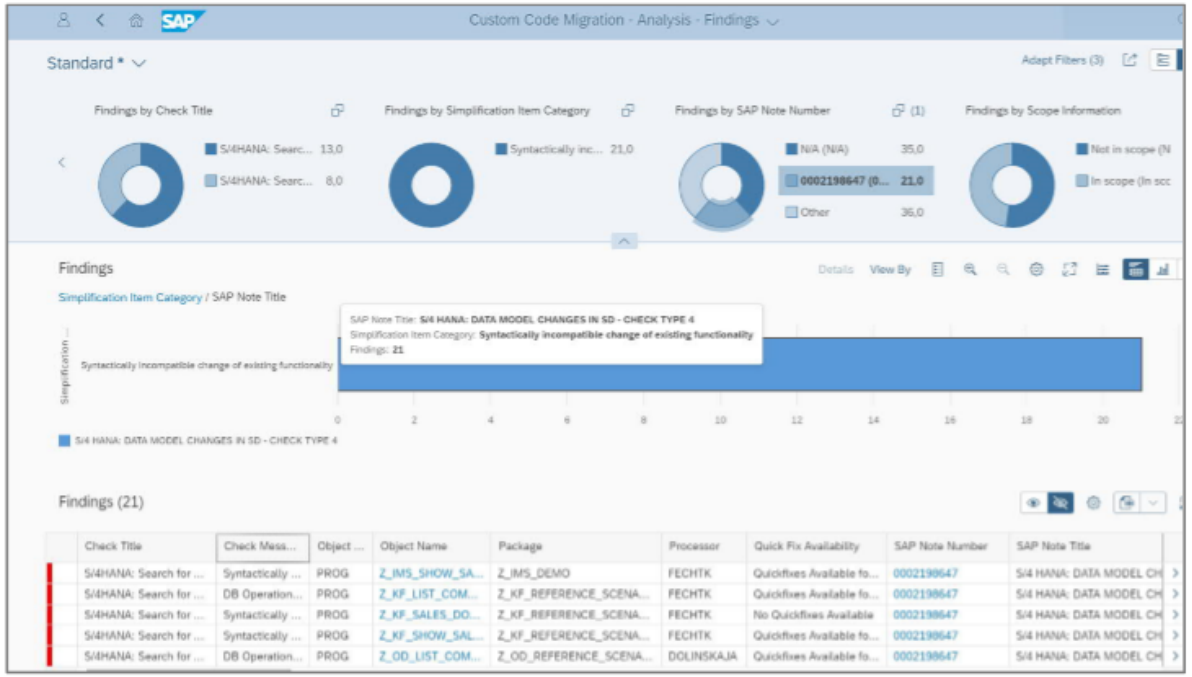
Use filters ("Findings by") and simplification information in ATC result list

- SAP Note number incl. title
- Referenced simplified object
- Application component

Use double-click navigation from ATC result

- Navigate to SAP Notes, Referenced Objects, ATC findings

Analysis in SAP Fiori Custom Code Migration App



Enable Fiori

Enable App for Access in SAP Fiori Launchpad

1. Add business **catalog SAP_BASIS_TCR_T** to the user roles that will use the Custom Code Migration app (PFCG)

2.Assign the user role to all users that will use the Custom Code Migration app.

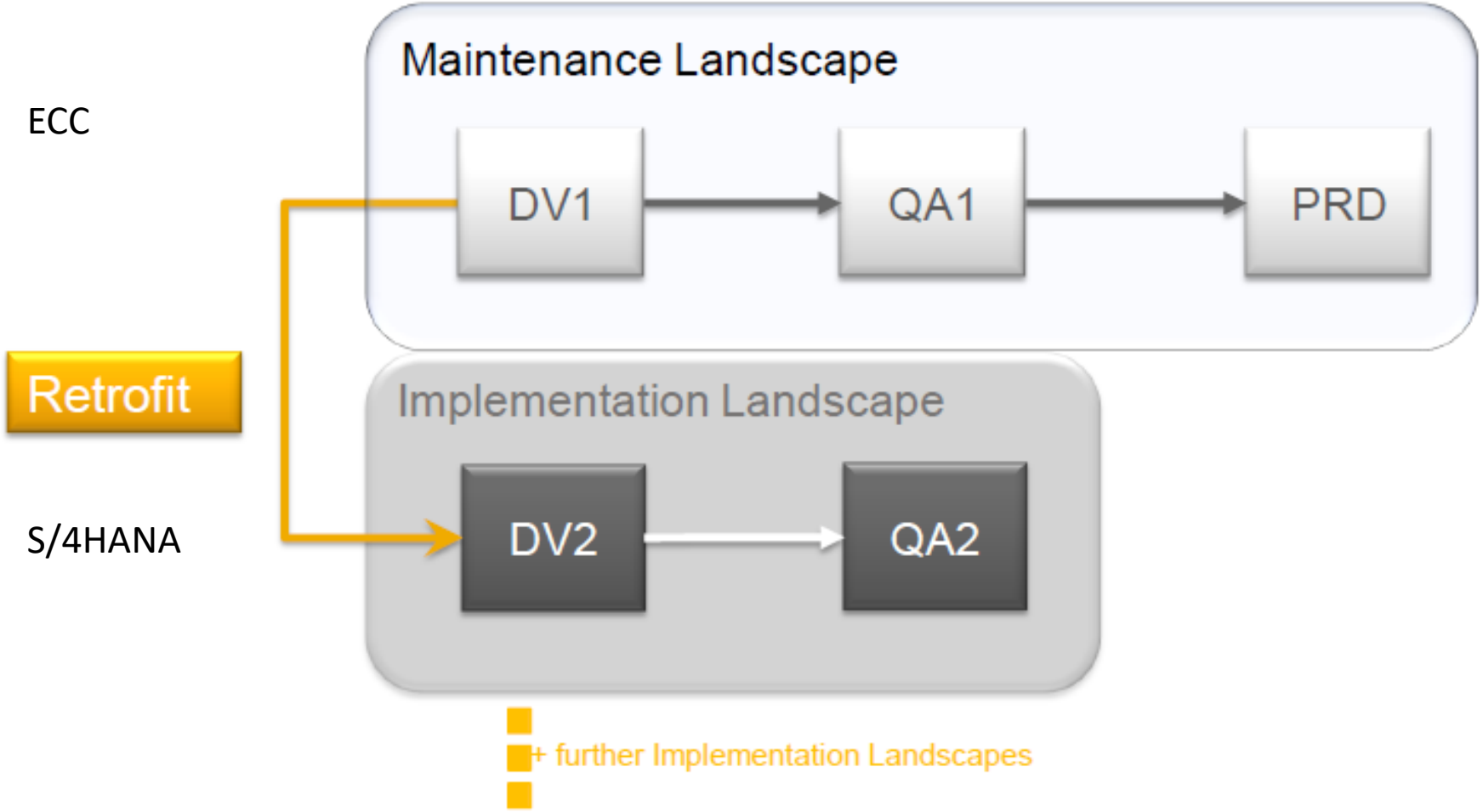
3.Activate ODATA Services:

Component	**External Service Name**
Custom code migration projects	SYCM_APS_C_PROJECT_CDS
Analysis of SAP S/4HANA custom code check findings	SYCM_APS_C_ATC_FIND_ALP_CDS
Custom code scoping by request entry points	SYCM_APS_C_SCP_BY_EP_CDS
Custom code scoping by packages	SYCM_APS_C_SCP_BY_PK_CDS

What you can do today

You should	You could
Collect productive Usage	Start to adapt your code in DEV System
Create new Code S/4HANA-ready (Setup Remote ATC)	Estimate Adaptation efforts
Developer-Training in S/4HANA and new Tools (CDS, OData, Eclipse…)	Transform custom code to Cloud Platform

System Freeze vs. Dual Maintenance



Minimum Changes during Project

Sandbox to shorten Time of Dual Maintenance

Changes need to be done in ECC and S/4 by Dual-Maintenance (Manual or with Solution Manager RetroFit)

Thank you

I will be available for Questions in the Chat

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