

HANEYA®

Offers Custom Code Remediation and Correction in Hours



Custom Code Correction & Remediation in Hours

HANEYA provides Custom Code Correction and Remediation in Hours by identifying the code conflicts for Upgrade and Migration and Automating the Code Corrections using the HANA standards via Robotic Process Automation (RPA)

Custom Code Incompatibilities Identification - S/4 HANA® Migration

HANEYA is a powerful tool for accurate, and efficient SAP HANA upgrade. HANEYA is a Robotic Process Automation (RPA) software that will help in identifying incompatibilities between the Enhancement Pack versions 6.0 and lower and 7.0/ 8.0 and classifies the conflicts as Error, Warning and Information Messages. Haneya also helps with identification of adjustments and repairs required for Data Dictionary Objects (DDIC), SAP OSS notes, Modifications with Adjustments, and Modifications without adjustments. Further, it identifies any inactive objects and Unicode conversion required for the system upgrade. In addition, HANEYA will automate remediation of the above incompatibilities using Automation and Robotics. Haneya executes Technical Correction and Remediations for Ehp upgrades and S/4 Conversions.

Ehp Upgrade:

HANEYA tool identifies and automates conflicts / errors below to perform upgrade from ECC Ehp to Ehp 7/8.

- *Unicode Conversion*
- *Ehp4 to Ehp8 Conflicts Automation*
- *SPAU / SPDD Adjustments*
- *Data Mappings and Delta Data Extraction*
- *Migration: CCA, ATC, SLIN, SCII, HANA incompatibilities automation*
- *Estimate the effort required for the upgrade and resources required to execute an Upgrade - # of days, # of FTE and Cost.*

S/4 HANA Migration:

HANEYA tool identifies and automates conflicts below to perform S/4 HANA Migration Application Area, Development Class, and Error Messages type.

- HANA Incompatibilities
- HANA DB syntax, SPAU, ATC or SCII checks and balances
- Obsolete Syntaxes (Per new standards of ABAP on HANA Programming and Eclipse)
- Obsolete Tables
- Obsolete Function Modules
- Obsolete Classes and Methods
- Obsolete Table Parameters incl. Table Parameters to Changing Parameters
- Obsolete Transaction Codes Automation

Below is a sample set of Upgrade Conflicts for Ehp7 that has been identified and automated using Correction using HANEYA as show in Figure(1). Error messages for ZDEV package and Sales Application:

S_NO	Line Num...	program name	Description	Automatic/Manual	Object Type	MESSAGE_TY...	Text	Packa...	TR Number	Status	System ID
10	700	ZFI00097	CALL FUNCTION/METHOD INTERFACES	Automatically Done by TOOL	PROG	E		ZDEV	CS3K944792	R	CS3
11	708	ZFI00097	CALL FUNCTION/METHOD INTERFACES	Automatically Done by TOOL	PROG			ZDEV	CS3K944792	R	CS3
12	1,651	ZFI00097	CALL FUNCTION/METHOD INTERFACES	Automatically Done by TOOL	PROG			ZDEV	CS3K944792	R	CS3
13	1,705	ZFI00097	CALL FUNCTION/METHOD INTERFACES	Automatically Done by TOOL	PROG			ZDEV	CS3K944792	R	CS3
207	276	ZFIAM009	CALL FUNCTION/METHOD INTERFACES	Automatically Done by TOOL	PROG			ZDEV	CS3K913969	R	CS3
230	283	ZFIAM009	SHOW CURR/QUAN FIELDS	Automatically Done by TOOL	PROG			ZDEV	CS3K913969	R	CS3
232	391	ZFIAM009	CHARACTER STRINGS	Automatically Done by TOOL	PROG			ZDEV	CS3K913969	R	CS3
268	56	ZFIAR001	CHARACTER STRINGS	Automatically Done by TOOL	PROG			ZDEV	CS3K913969	R	CS3
269	71	ZFIAR001	CHARACTER STRINGS	Automatically Done by TOOL	PROG			ZDEV	CS3K913969	R	CS3
270	85	ZFIAR001	CHARACTER STRINGS	Automatically Done by TOOL	PROG			ZDEV	CS3K913969	R	CS3
271	114	ZFIAR001	CHARACTER STRINGS	Automatically Done by TOOL	PROG			ZDEV	CS3K913969	R	CS3
272	115	ZFIAR001	CHARACTER STRINGS	Automatically Done by TOOL	PROG			ZDEV	CS3K913969	R	CS3
273	117	ZFIAR001	CHARACTER STRINGS	Automatically Done by TOOL	PROG			ZDEV	CS3K913969	R	CS3
274	120	ZFIAR001	CHARACTER STRINGS	Automatically Done by TOOL	PROG			ZDEV	CS3K913969	R	CS3
275	121	ZFIAR001	CHARACTER STRINGS	Automatically Done by TOOL	PROG			ZDEV	CS3K913969	R	CS3
276	122	ZFIAR001	CHARACTER STRINGS	Automatically Done by TOOL	PROG			ZDEV	CS3K913969	R	CS3
277	122	ZFIAR001	CHARACTER STRINGS	Automatically Done by TOOL	PROG			ZDEV	CS3K913969	R	CS3
278	122	ZFIAR001	CHARACTER STRINGS	Automatically Done by TOOL	PROG			ZDEV	CS3K913969	R	CS3
279	122	ZFIAR001	CHARACTER STRINGS	Automatically Done by TOOL	PROG			ZDEV	CS3K913969	R	CS3
280	123	ZFIAR001	CHARACTER STRINGS	Automatically Done by TOOL	PROG			ZDEV	CS3K913969	R	CS3
281	123	ZFIAR001	CHARACTER STRINGS	Automatically Done by TOOL	PROG			ZDEV	CS3K913969	R	CS3
282	123	ZFIAR001	CHARACTER STRINGS	Automatically Done by TOOL	PROG			ZDEV	CS3K913969	R	CS3
283	124	ZFIAR001	CHARACTER STRINGS	Automatically Done by TOOL	PROG			ZDEV	CS3K913969	R	CS3

Figure 1 - Ehp Upgrade Conflicts

Custom Code Correction and Automation

- S/4 HANA® Migration

- HANEYA identifies the conflicts for the programs/ fields at the database level. During migration HANEYA also make changes Database table settings to make them compatible with Ehp8 system and S/4 HANA System.
- HANEYA identifies any conflicts for migration from Ehp4 to Ehp 8.0 for validation and testing
- It provides a report of Errors, Warnings and Messages so technical manager can pick and choose and Prioritize for remediation.
- HANEYA tool generates the transports for corrections, so the changes are tested and moved to PROD.
- During migration/ upgrade, HANEYA resolves these conflicts by updating the conflicts or replacing conflicting statements in programs, reports and interfaces with Ehp7/8 or S/4 HANA compatible statements as shown in Figure(2).



```
ABAP Editor: Display Report ZAV_DEMO_TEST_08
Report ZAV_DEMO_TEST_08 Active
26 | ENDIF.
27 | IF s_matnr = 'ABC'.
28 |   SELECT matnr mstart mbrsh FROM mara INTO TABLE t_mara WHERE matnr IN s_matnr.
29 |   IF sy-subrc = 0.
30 |     MESSAGE 'INVALID DATA' TYPE 'E'.
31 |   ENDIF.
32 | ENDIF.
33 |
34 | START-OF-SELECTION.
35 | * FIELD-SYMBOLS: <f_string>. "Removed by Haneya Tool.
36 | * FIELD-SYMBOLS: <f_string> TYPE ANY . "#FS_UNTYPED "Changed by Haneya Tool.
37 | * SELECT matnr pstat mstart mbrsh FROM mara INTO TABLE ts_mara. "Removed by Haneya Tool.
38 | * SELECT DISTINCT matnr pstat mstart mbrsh FROM mara INTO TABLE ts_mara. "#EC_CI_NOWHERE "Changed by Haneya Tool.
39 | * SELECT SINGLE * FROM marc INTO wa_marc WHERE matnr = '123'. "Removed by Haneya Tool
40 | * SELECT * FROM marc INTO wa_marc UP TO 1 ROWS WHERE matnr = '123'. ENDSELECT. "#WARN_OK "Changed by Haneya tool
41 | * SELECT kunnr vbeln audat FROM vbak INTO TABLE t_vbak WHERE kunnr = p_kunnr.
42 | * SELECT mstart mbrsh matkl "Removed by Haneya Tool
43 | *   INTO TABLE T_MARC "Removed by Haneya Tool
44 | *   FROM mara "Removed by Haneya Tool
45 | *   WHERE matnr IN s_matnr "Removed by Haneya Tool
46 | *   AND mstart = 'ZABC'. "Removed by Haneya Tool
47 | * SELECT C-matnr, C-werks, A-mstart, A-mbrsh, A-matkl INTO TABLE @DATA(T_MARC) FROM marc AS C INNER JOIN mara AS A ON C-MATNR = A-MATNR WHERE A-matnr IN @
48 | * IF tm_mara IS NOT INITIAL.
49 | * SELECT matnr werks "Removed by Haneya Tool
50 | *   INTO TABLE t_marc "Removed by Haneya Tool
51 | *   FROM marc FOR ALL ENTRIES IN T_MARC "Removed by Haneya Tool
52 | *   WHERE matnr = T_MARC-matnr "Removed by Haneya Tool
53 | *   AND werks = 'S1234'. "Removed by Haneya Tool
54 | * ENDIF
```

Figure 2 - Custom Code Correction

Value Proposition

HANEYA significantly cuts your Custom Code Effort, Time and Cost by 80%. HANEYA automates the Code Corrections, Unicode, SPAU / SPDD adjustments, Data Dictionary Transformations into new data elements in S/4, and Automates the Code Resolutions. In addition, it provides an audit log and tracking mechanism that shows the changes made by HANEYA and areas where manual intervention is required. Further, it will serve as a good perpetual Upgrade tool for technical Code correction and Automation, for code quality check, and Code dialysis to measure accuracy and quality of the CODE proactively and take appropriate actions to remediate the Code, so the code is 100% compatible – Continuous Upgrade tool from 1809 to 1909 to 2009 etc.

What Does HANEYA save?

To quantify the savings, as a case in point with our client, following are the key resource and timeline savings:

- 1. Reduce Custom Code effort, time and cost by 80%*
- 2. Reduces 80% of ABAP/ Technical FTEs*
- 3. ~100% Error Free and Risk Free*
- 4. Code is compliant with ABAP on HANA and Eclipse*
- 5. Custom Code changes are documented for Audit Trail*
- 6. Ongoing tool for custom code remediation for any newly introduced changes*

For More Information or to request a Haneya demo, please contact

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