HANEYA ON BTP

Haneya Tool :

HANEYA is an automated SAP S/4HANA migration solution designed to simplify and accelerate the transformation from legacy SAP ECC systems to SAP HANA and S/4HANA. It provides an end-to-end framework that supports both Suite on HANA and S/4HANA conversions with minimal manual effort, enabling organizations to reduce migration cost and complexity while ensuring faster execution, lower risk, and near-zero business downtime.

HANEYA has been integrated with **SAP Business Technology Platform (BTP)** to leverage cloud-native capabilities for orchestration, monitoring, and automation. The following screen represents the **home page of the HANEYA tool on BTP**, which acts as the central entry point for managing and executing migration activities.

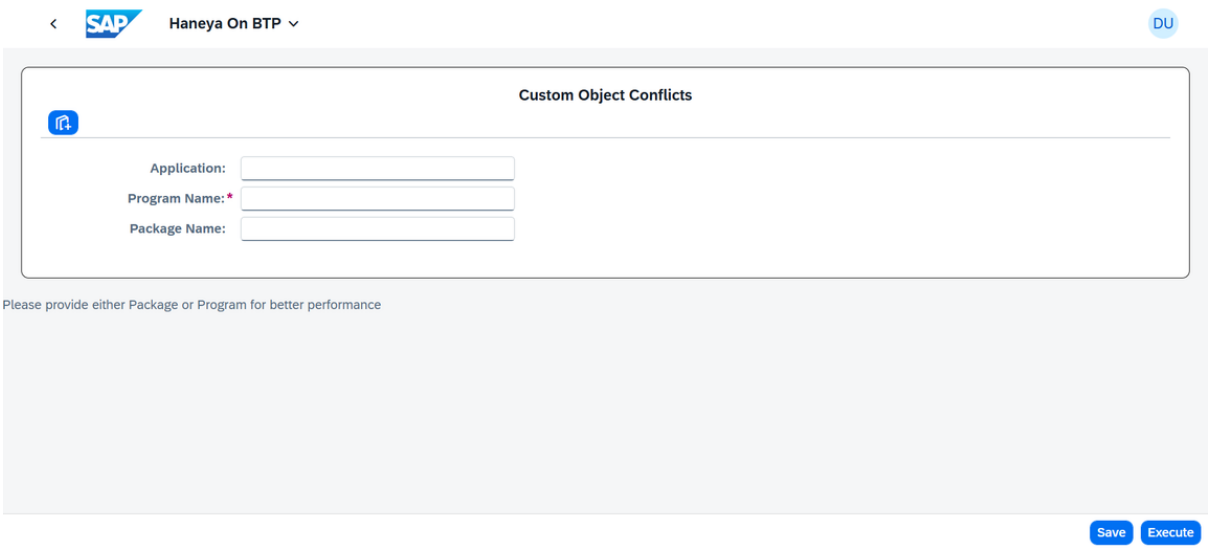
The HANEYA on BTP home page acts as the central entry point to the tool, offering key functionalities such as Upgrade, Migration, Business Automation, and Post-Migration. These modules allow users to plan, execute, and monitor the entire SAP S/4HANA migration journey in an automated and user-friendly manner.

Upgrade

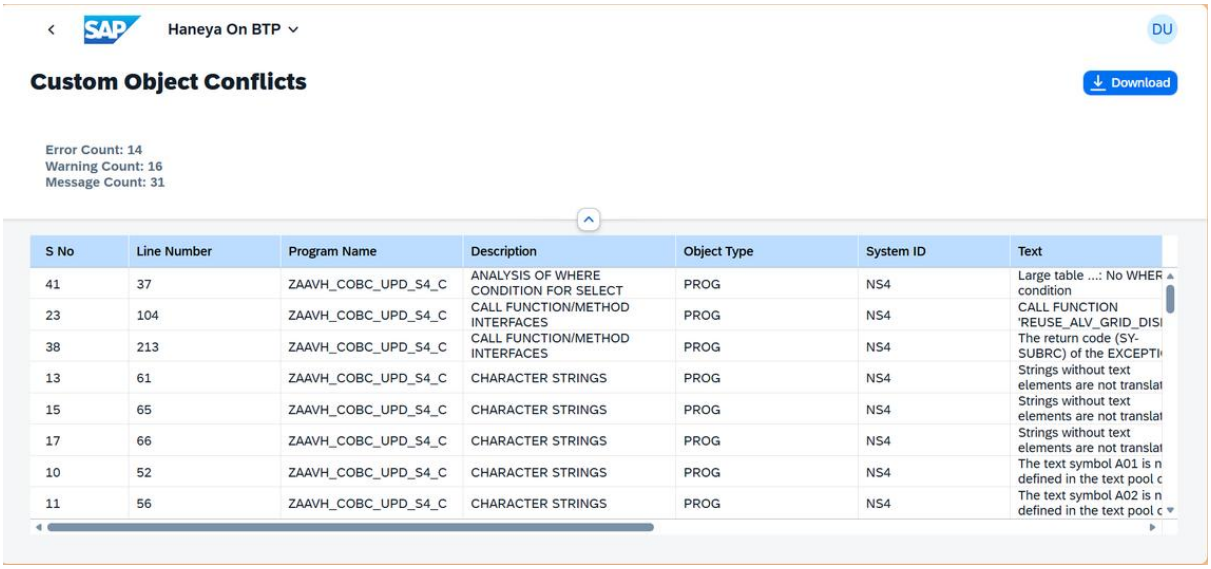
The Upgrade module enables the technical conversion from SAP ECC to SAP S/4HANA 2023. It performs a comprehensive system assessment by identifying Functional Conflicts, Custom Object Conflicts, and HANA Compatibility issues, Upgrade Conflicts Remediation and Function module Remediation.

1. Custom Object Conflicts:

In the Custom Object Conflicts section, users can provide inputs such as Application Area, Program Name, and Package Name, and then execute the analysis. Based on the given inputs, HANEYA tool scans the system and performs an automated code assessment on the selected custom objects.

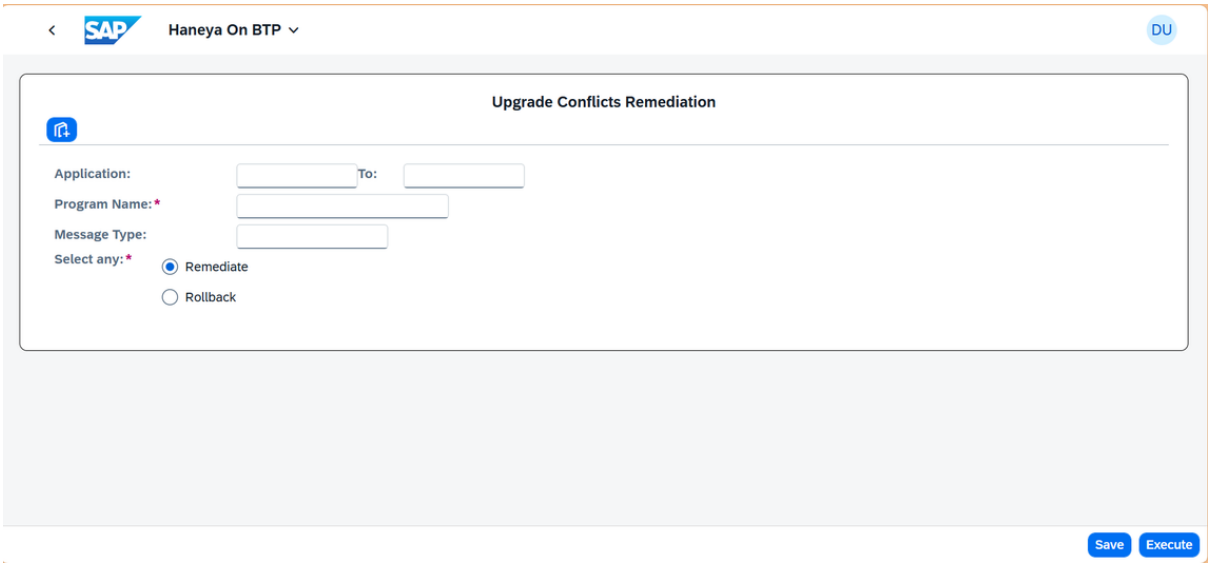


The tool displays the results in an ALV report, highlighting all identified issues, including outdated or incompatible ABAP syntaxes, obsolete function modules, and S/4HANA non-compliant statements. This enables developers to quickly identify the exact locations in the code that require remediation for S/4HANA compatibility.



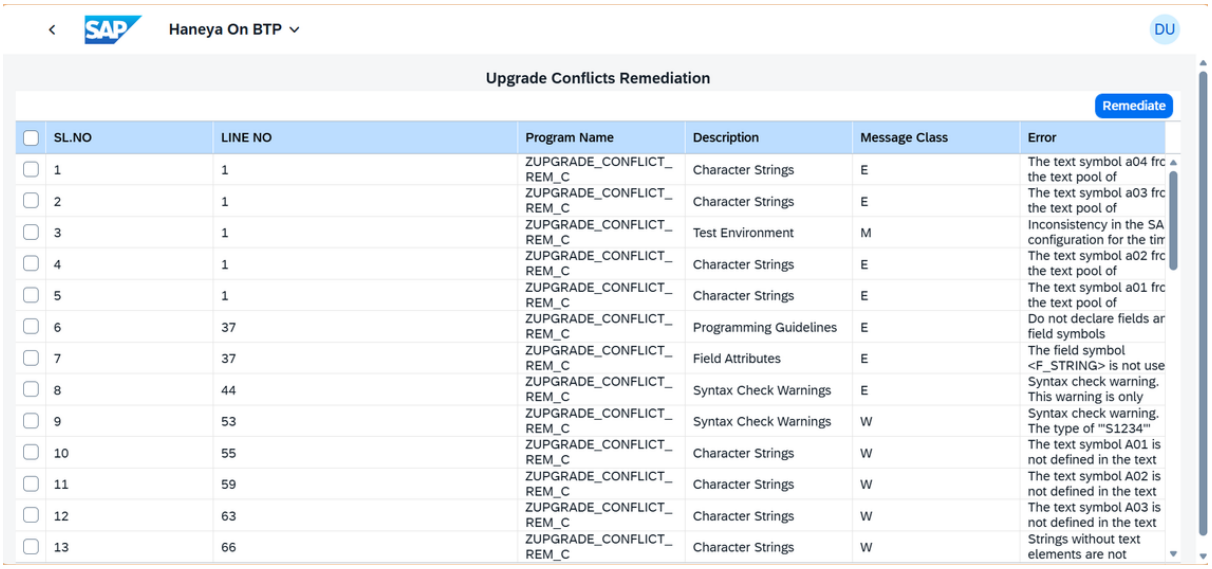
1. Upgrade Conflicts Remediation

The Upgrade Conflicts Remediation feature in HANEYA helps in resolving issues identified during the upgrade analysis phase. In this section, users provide inputs such as Application Area, Program Name, and Message Type, and select the appropriate action using the Remediate or Rollback radio buttons.



Upon execution, HANEYA scans the specified program and analyzes all detected conflicts. The tool displays the results in a structured format, showing the exact line numbers where outdated or incompatible syntaxes are present, along with the severity of each issue (Error or Warning). It also indicates whether the issue can be automatically remediated by HANEYA or if manual intervention is required by the developer.

This automated remediation capability significantly reduces manual effort and ensures faster resolution of upgrade-related conflicts, thereby improving overall system readiness for S/4HANA.



SL.NO	LINE NO	Program Name	Description	Message Class	Error
1	1	ZUPGRADE_CONFLICT_REM_C	Character Strings	E	The text symbol a04 frc the text pool of
2	1	ZUPGRADE_CONFLICT_REM_C	Character Strings	E	The text symbol a03 frc the text pool of
3	1	ZUPGRADE_CONFLICT_REM_C	Test Environment	M	Inconsistency in the SA configuration for the tim
4	1	ZUPGRADE_CONFLICT_REM_C	Character Strings	E	The text symbol a02 frc the text pool of
5	1	ZUPGRADE_CONFLICT_REM_C	Character Strings	E	The text symbol a01 frc the text pool of
6	37	ZUPGRADE_CONFLICT_REM_C	Programming Guidelines	E	Do not declare fields ar field symbols
7	37	ZUPGRADE_CONFLICT_REM_C	Field Attributes	E	The field symbol <F_STRING> is not use
8	44	ZUPGRADE_CONFLICT_REM_C	Syntax Check Warnings	E	Syntax check warning. This warning is only
9	53	ZUPGRADE_CONFLICT_REM_C	Syntax Check Warnings	W	Syntax check warning. The type of "'S1234'"
10	55	ZUPGRADE_CONFLICT_REM_C	Character Strings	W	The text symbol A01 is not defined in the text
11	59	ZUPGRADE_CONFLICT_REM_C	Character Strings	W	The text symbol A02 is not defined in the text
12	63	ZUPGRADE_CONFLICT_REM_C	Character Strings	W	The text symbol A03 is not defined in the text
13	66	ZUPGRADE_CONFLICT_REM_C	Character Strings	W	Strings without text elements are not

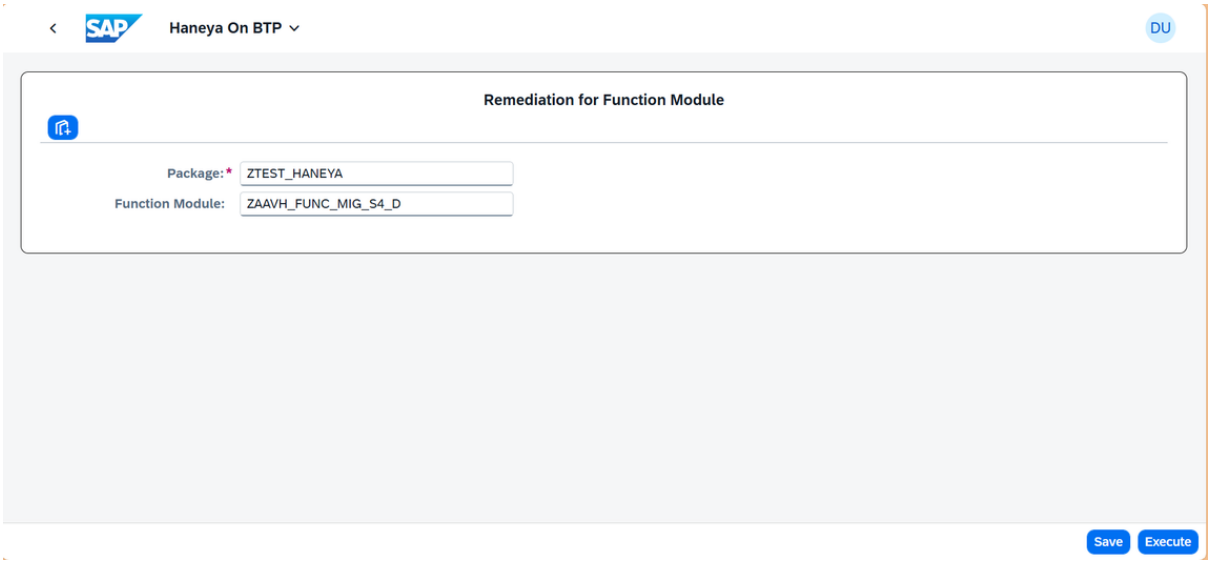
In the displayed remediation table, when the **Remediate** action is triggered, HANEYA automatically replaces all identified **outdated ABAP syntaxes** with their corresponding **S/4HANA-compliant syntaxes** directly in the selected program. This automated code correction is performed only for the conflicts that are marked as **auto-remediable**, ensuring safe and controlled changes.

For issues that require manual handling, the tool clearly flags them, allowing developers to review and update the logic as needed. This approach ensures both **automation and governance**, reducing the risk of errors while accelerating the remediation process.

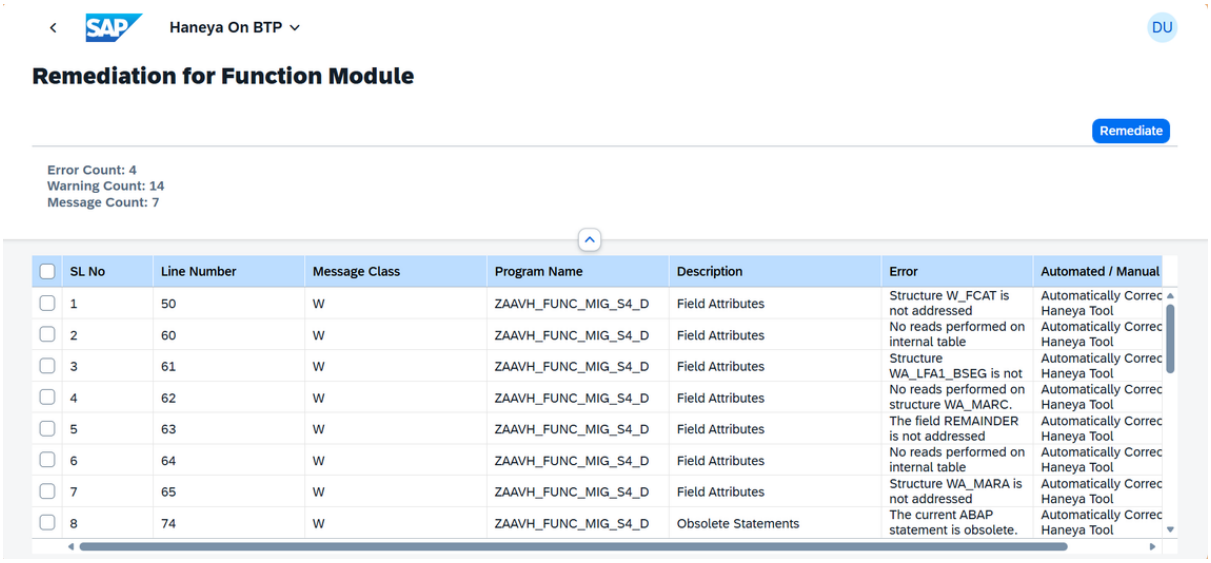
1. Functional Module Remediation

The Function Module Remediation feature in HANEYA extends the automated remediation capability to ABAP function modules. Similar to program-level remediation, this functionality focuses on identifying and resolving S/4HANA incompatibilities within function module implementations.

In this section, users provide inputs such as Package Name and Function Module Name and execute the analysis. HANEYA scans the selected function module and detects outdated or non-compliant syntaxes. The results are displayed in a structured table, showing the line numbers, error or warning classification, and whether the issue can be automatically remediated or requires manual intervention.



For auto-remediable conflicts, HANEYA replaces the old syntaxes with S/4HANA-compliant code, ensuring that function modules are fully aligned with S/4HANA standards and reducing technical debt during the upgrade process.



Migration

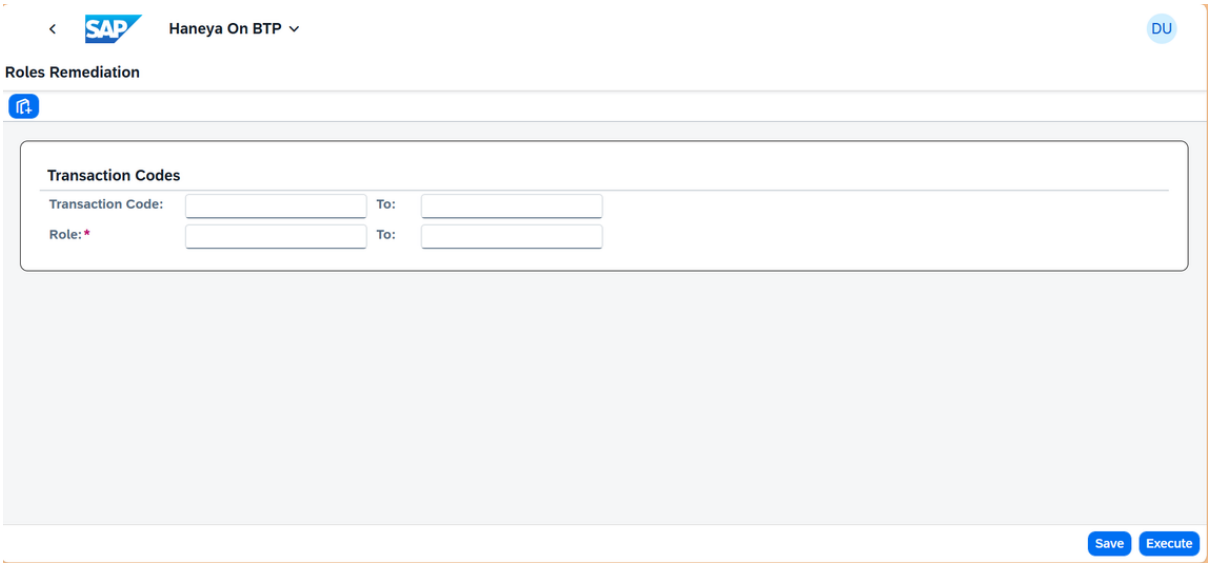
The Migration module in HANEYA focuses on the actual data and system transformation from SAP ECC to SAP S/4HANA. This module provides multiple automated functionalities to support different migration scenarios and ensures a controlled, efficient, and secure migration process. It enables users to perform end-to-end migration activities, including data extraction, validation, transformation, and loading, while maintaining data integrity and business continuity.

1. **Security Roles Remediation**

In this we have Security roles remediation and Authorization Object Remediation.

Security Roles Remediation:

The **Security Roles Remediation** feature in HANEYA ensures that user roles remain compatible after upgrading to SAP S/4HANA. In SAP, **roles are assigned to users and define the level of access and restrictions (such as read, write, and modify permissions) for specific transaction codes and business functions**.



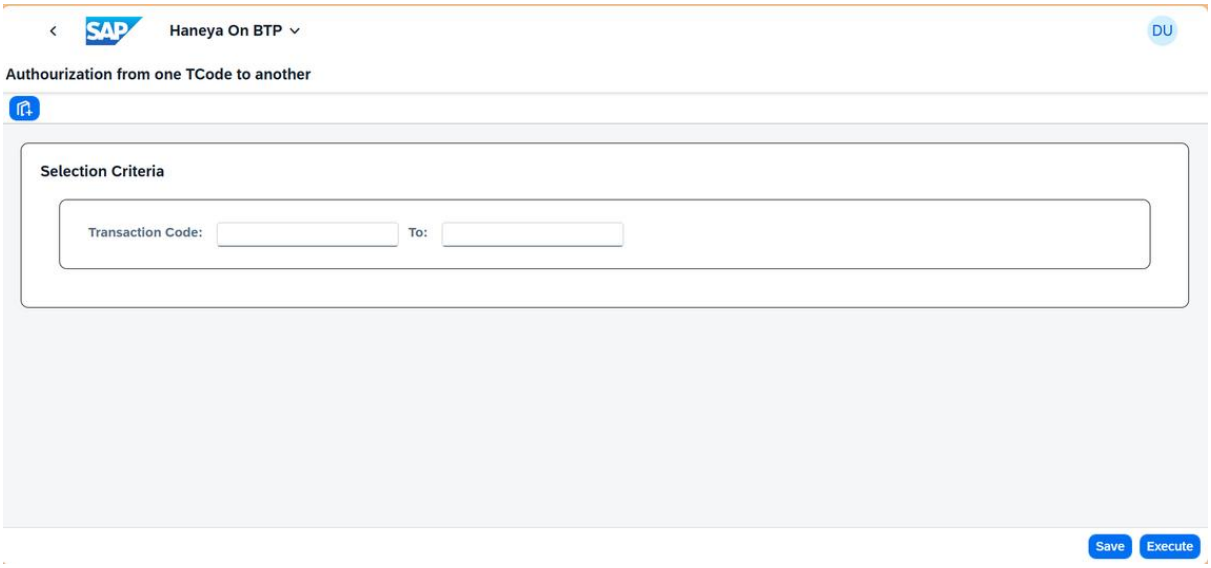
In this functionality, users provide inputs such as **Transaction Code and Role Name**, and execute the remediation process. Upon execution, HANEYA analyzes the assigned roles and identifies **obsolete or deprecated transaction codes** that are no longer supported in S/4HANA.

The tool then automatically replaces the old transaction codes with their corresponding **S/4HANA-compliant transaction codes**, while preserving the existing **authorization levels and access restrictions** defined in the roles. This ensures that users continue to have the correct business access in the new system without security gaps.

This automated remediation helps maintain **authorization integrity, access control, and business continuity**, while significantly reducing manual effort for security teams during the migration.

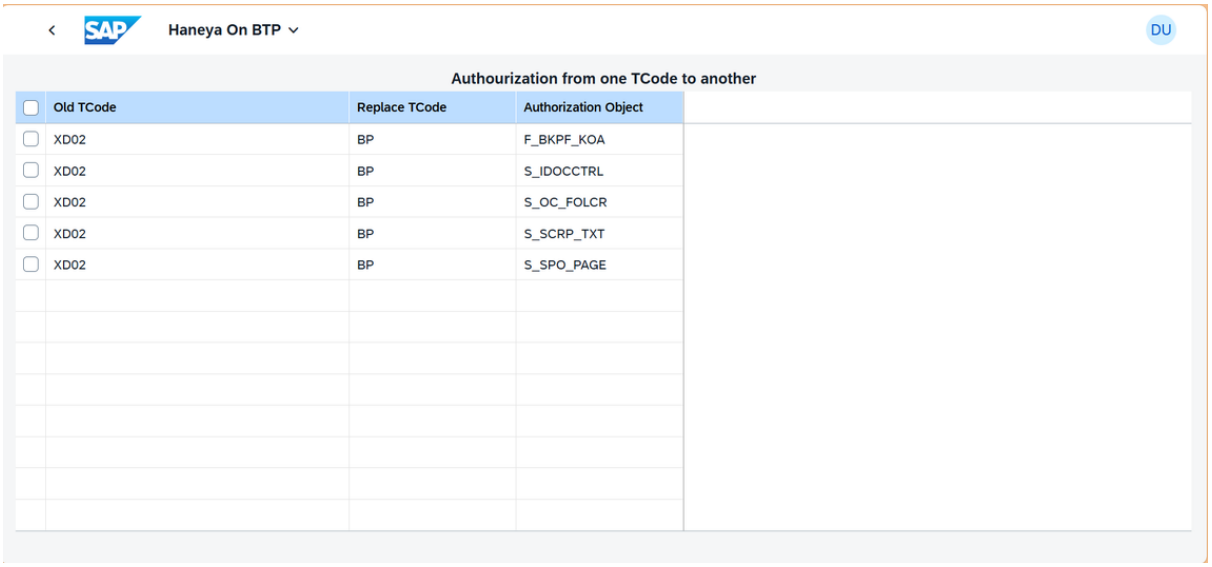
Authorization Object Remediation:

The Authorization Object Remediation feature in HANEYA ensures that authorization checks remain valid and consistent after migration to SAP S/4HANA. In this functionality, users provide the Transaction Code (TCode) as input and execute the analysis.



Upon execution, HANEYA scans all authorization objects associated with the given transaction and identifies **obsolete, changed, or deprecated authorization objects** that are no longer supported in S/4HANA. The tool then maps and replaces them with the corresponding **S/4HANA-compliant authorization objects**, wherever automatic remediation is possible.

For cases that require manual adjustments, the tool highlights the impacted authorization objects, enabling security administrators to review and update role definitions accordingly. This ensures **secure access control, compliance, and seamless user operations** in the migrated S/4HANA environment.


Haneya On BTP
DU
Authourization from one TCode to another
Old TCode
Replace TCode
Authorization Object
XD02
BP
F_BKPF_KOA
XD02
BP
S_IDOCCTRL
XD02
BP
S_OC_FOLCR
XD02
BP
S_SCRP_TXT
XD02
BP
S_SPO_PAGE