

Haney Hybrid Migration Solution

Brown + Bluefield Combined Approach for SAP S/4HANA Transformation

Driving End-to-End ERP Modernization with Intelligent Automation

Updated as of May 2026

Executive Summary

Enterprises modernizing their SAP landscape face a fundamental challenge: how to preserve decades of operational value embedded in legacy ECC systems while simultaneously adopting the modern capabilities of SAP S/4HANA. A one-size-fits-all approach — purely technical conversion or complete system redesign — invariably leaves value on the table or introduces unnecessary risk.

Haney™ Hybrid Migration Solution combines the strengths of both Brownfield (technical conversion) and Bluefield (selective migration) approaches into a single, orchestrated framework. This blended methodology enables enterprises to remediate and carry forward all critical legacy investments while selectively modernizing data, master records, and configurations — all governed by intelligent automation.

Developed and demonstrated by the Haneya platform from Visionsoft, this solution delivers end-to-end migration automation: from incompatibility assessment and code remediation to delta data migration, zero-downtime cutover, and post-migration test automation — with AI-assisted error resolution throughout.

The ECC to S/4HANA Migration Imperative

With SAP's end of mainstream maintenance for ECC approaching, organizations face mounting pressure to migrate. The Haneya tool addresses the core challenges enterprises encounter:

<p>Technical Complexity</p> <p>Thousands of custom programs, function modules, CDS views, and transaction codes must be assessed for S/4HANA compatibility before go-live.</p>	<p>Data Quality & Continuity</p> <p>Master data inconsistencies, legacy configurations, and transactional history must be cleansed, validated, and selectively migrated to the new system.</p>
<p>Business Continuity Risk</p> <p>Any disruption to live operations during migration carries direct financial and compliance consequences. Downtime must be minimized or eliminated.</p>	<p>Manual Overhead</p> <p>Without automation, technical remediation, data transformation, and validation tasks consume months of consultant time and introduce significant risk of human error.</p>

Migration Approaches: Brownfield, Bluefield, and the Hybrid Path

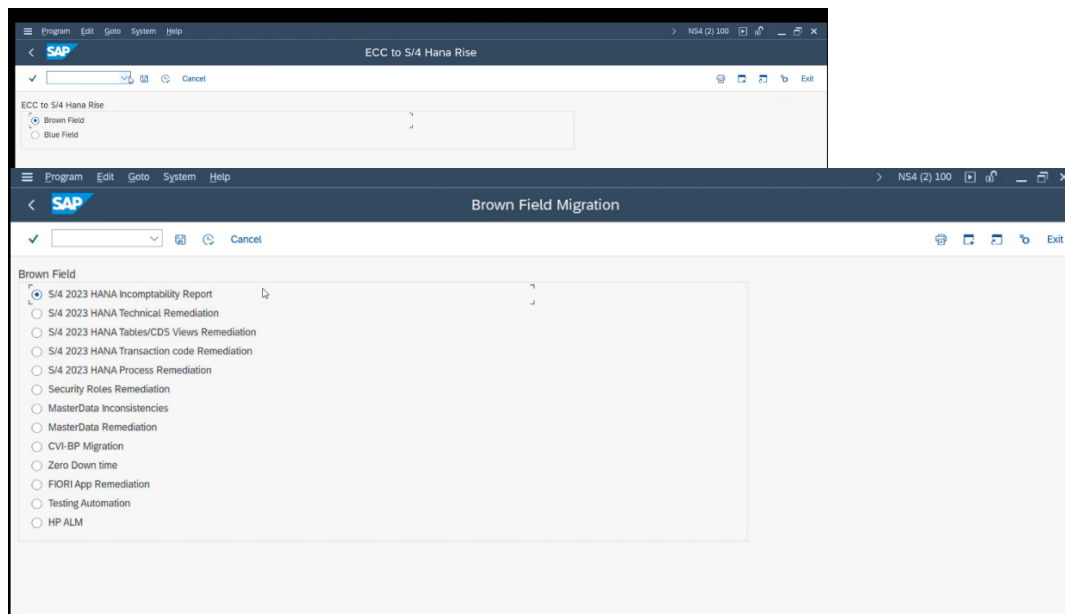
SAP S/4HANA migrations typically follow one of three broad strategies. Each has distinct trade-offs. Haneya's hybrid solution delivers the advantages of both Brownfield and Bluefield within a single, automated framework:

Greenfield	Brownfield	Bluefield / Hybrid
Complete system redesign. Fresh start with no data carry-over. High cost and disruption.	Direct technical conversion of existing ECC system. Preserves configurations and data but may carry forward technical debt.	Selective migration: retain what matters, redesign what needs improvement. Combines speed with strategic modernization.

Introducing the Haneya™ Hybrid Migration Solution

The Haneya migration tool is a comprehensive automation platform built natively for ECC-to-S/4HANA transformation. It executes the full migration lifecycle — assessment, remediation, migration, automation, and post-migration validation — across both Brownfield and Bluefield workstreams simultaneously.

The tool is structured around five major phases:



Part I: Brownfield — Technical Conversion & Remediation

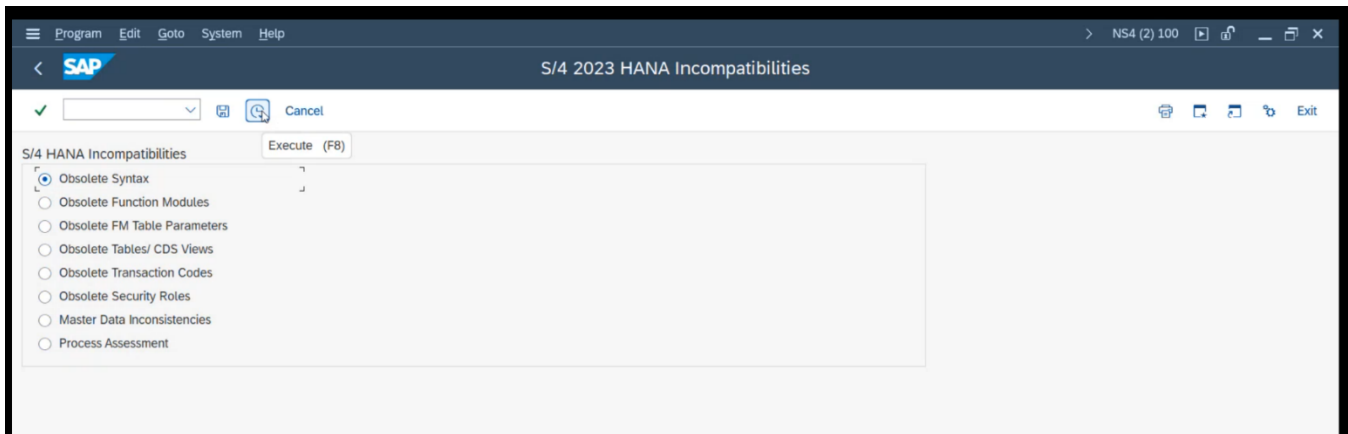
The Brownfield component of the Haneya tool addresses the core challenge of ECC-to-S/4HANA technical conversion: ensuring that all existing programs, custom objects, transaction codes, and security roles are fully compatible with the S/4HANA data model and API landscape before go-live.

Incompatibility Reporting

Before any remediation begins, Haneya generates a comprehensive incompatibility report across the entire ECC landscape. This report details:

- Programs containing obsolete ABAP statements and the replacement syntax
- Function modules that are deprecated and their S/4HANA successors
- Database tables replaced by CDS (Core Data Services) views in S/4HANA
- Transaction codes that are obsolete and their successor transactions (e.g., XD02/XD01 replaced by BP — Business Partner)
- Security roles containing absolute authorization objects
- Master data fields and characteristics with structural incompatibilities

The report provides record-level detail: program name, statement flagged, count of affected instances, and the exact replacement — giving functional and technical teams a complete picture of remediation scope before a single line of code is touched.



Technical Remediation Engine

Haneya executes remediation automatically across all identified incompatibility categories:

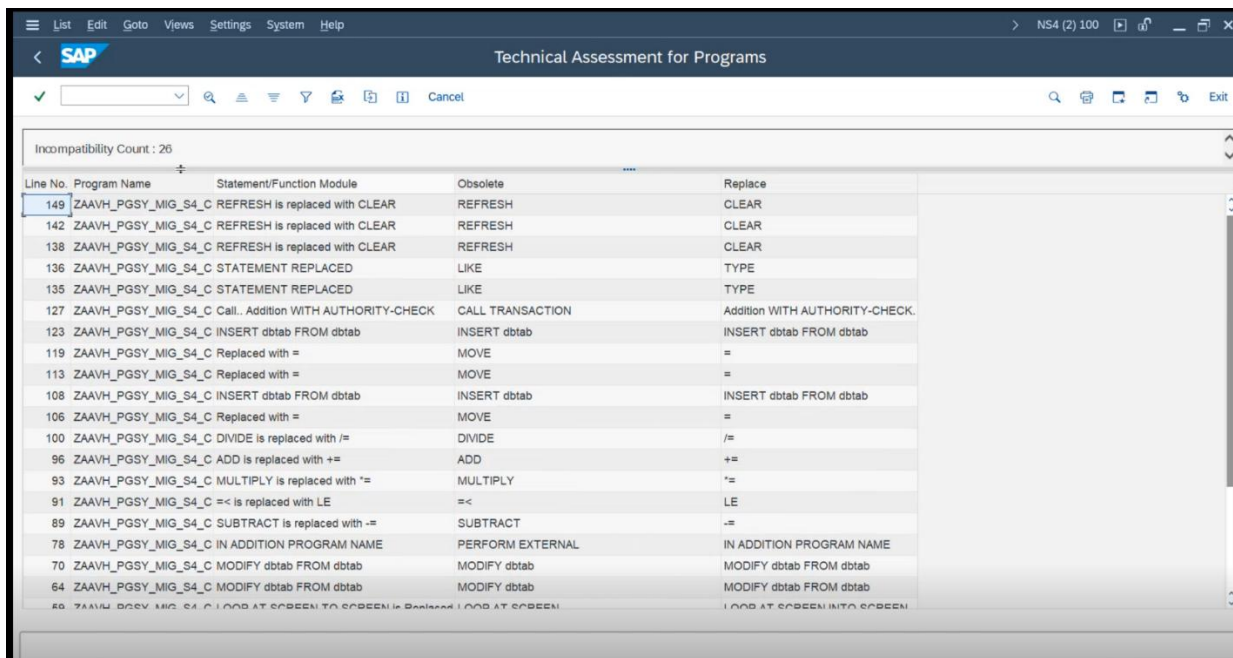
Function Module Remediation	CDS View Remediation	Transaction Code Remediation	Security Role Remediation
Bulk or individual processing Background job execution Generates spool output Annotates changes in code (begin/end markers)	Replaces legacy DB tables with CDS views (e.g., MARA → I_MaterialStock) Remediates internal table references Background processing for large programs Stores all changes in TR	Identifies and replaces absolute T-codes in custom programs Documents substitutions (e.g., XT02 → BP) Adds Haneya commentary logs to modified programs	Identifies obsolete T-codes within roles Adds successor authorizations automatically (e.g., NK1, MB0 → BP, NIM)

Stores to Transport Request (TR)		Full traceability via modification date logging	Node-level visibility of changes Stores updates to TR
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Process Remediation (Business Process Configuration)

Beyond code, Haneya automates the migration of business process configurations from ECC to S/4HANA. Rather than requiring functional consultants to navigate dozens of configuration screens manually, Haneya consolidates multiple process screens — covering global settings, company code assignments, data transfer settings, financial postings, and more — into a single, manageable interface. Functional teams can review, validate, and save configurations without navigating each individual transaction.

Coverage includes core SAP processes across Finance (FI/CO), Materials Management (MM), Sales & Distribution (SD), and beyond — enabling near-complete configuration migration in a fraction of the manual effort.

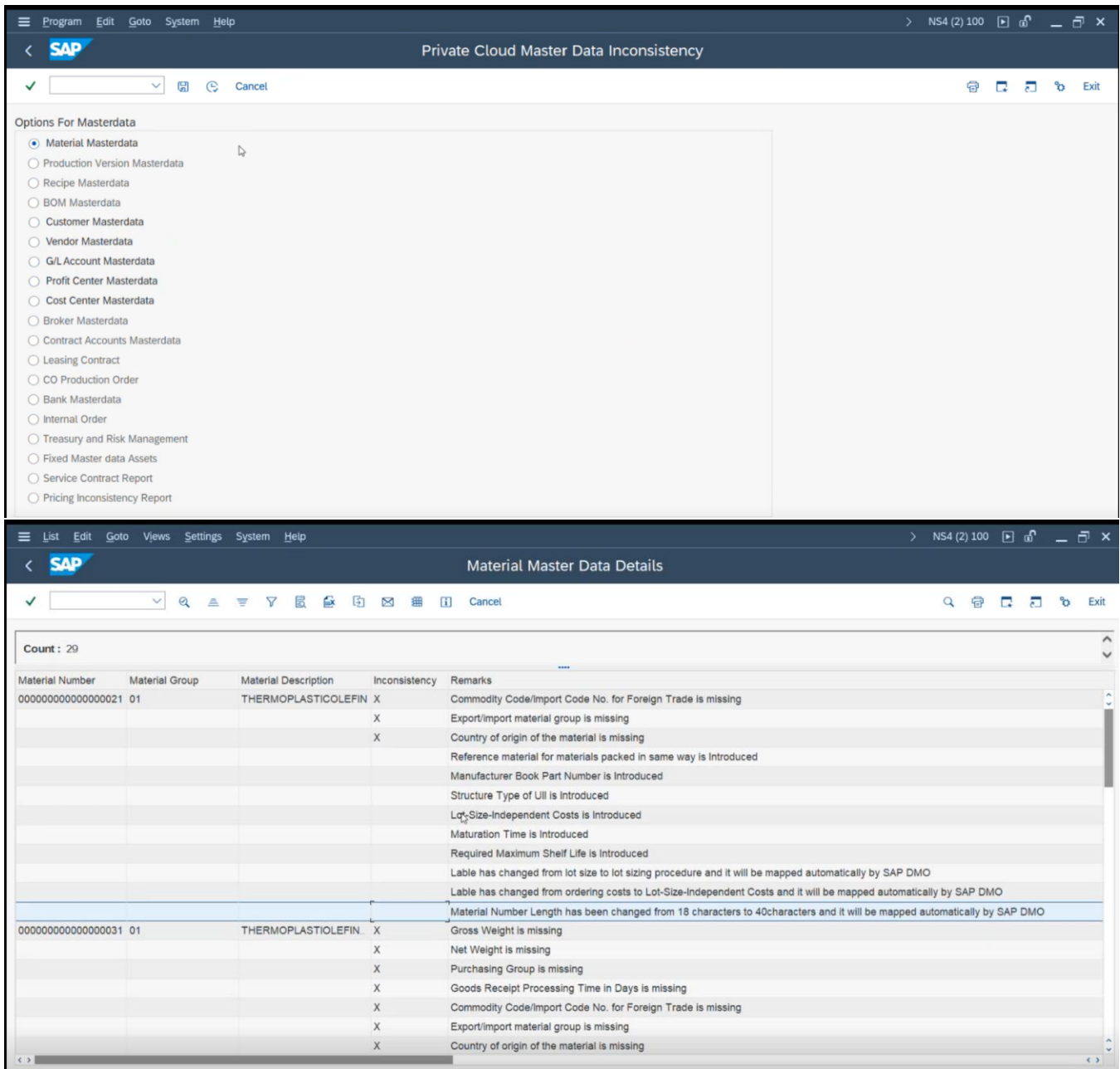


Master Data Inconsistency Remediation

ECC master data structures differ from S/4HANA in significant ways. The material master, for example, maps to 40 characteristics in S/4HANA versus 18 in ECC. Haneya's master data remediation engine:

- Validates each master data object against S/4HANA compatibility requirements
- Flags inconsistencies (marked 'X') at the field level for review
- Remediates identified inconsistencies prior to migration, ensuring clean data go-live

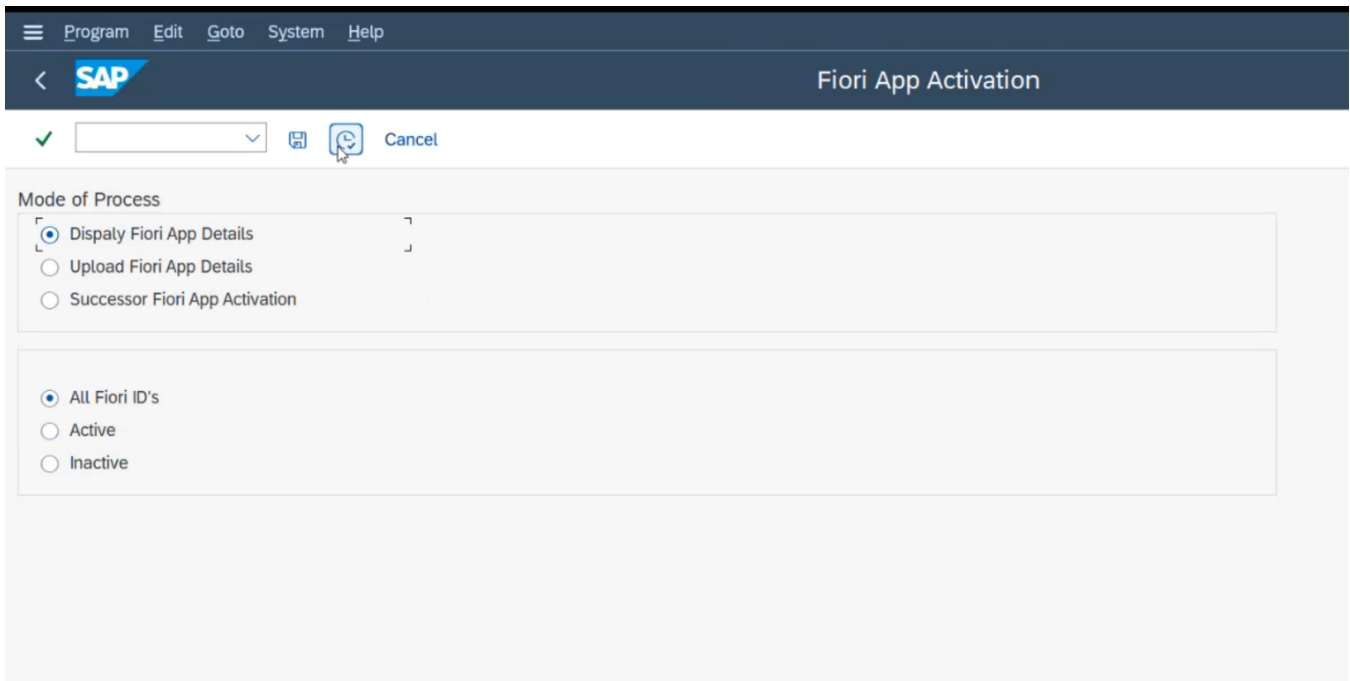
Supported master data objects include: Material Master, Production Version, Recipe Master, Bill of Materials (BOM), Business Partner/Vendor/Customer data, Cost Center, Profit Center, Service Master, and Pricing records.



Fiori App Remediation

Haneya automates the migration of SAP Fiori app roles — traditionally a highly manual process. The tool:

- Generates a detailed report of inactive Fiori IDs and suggests successor apps
- Automatically activates successor Fiori apps and assigns them to roles (visible as green status in the system)
- Eliminates the need for manual PFCG-based role updates at scale

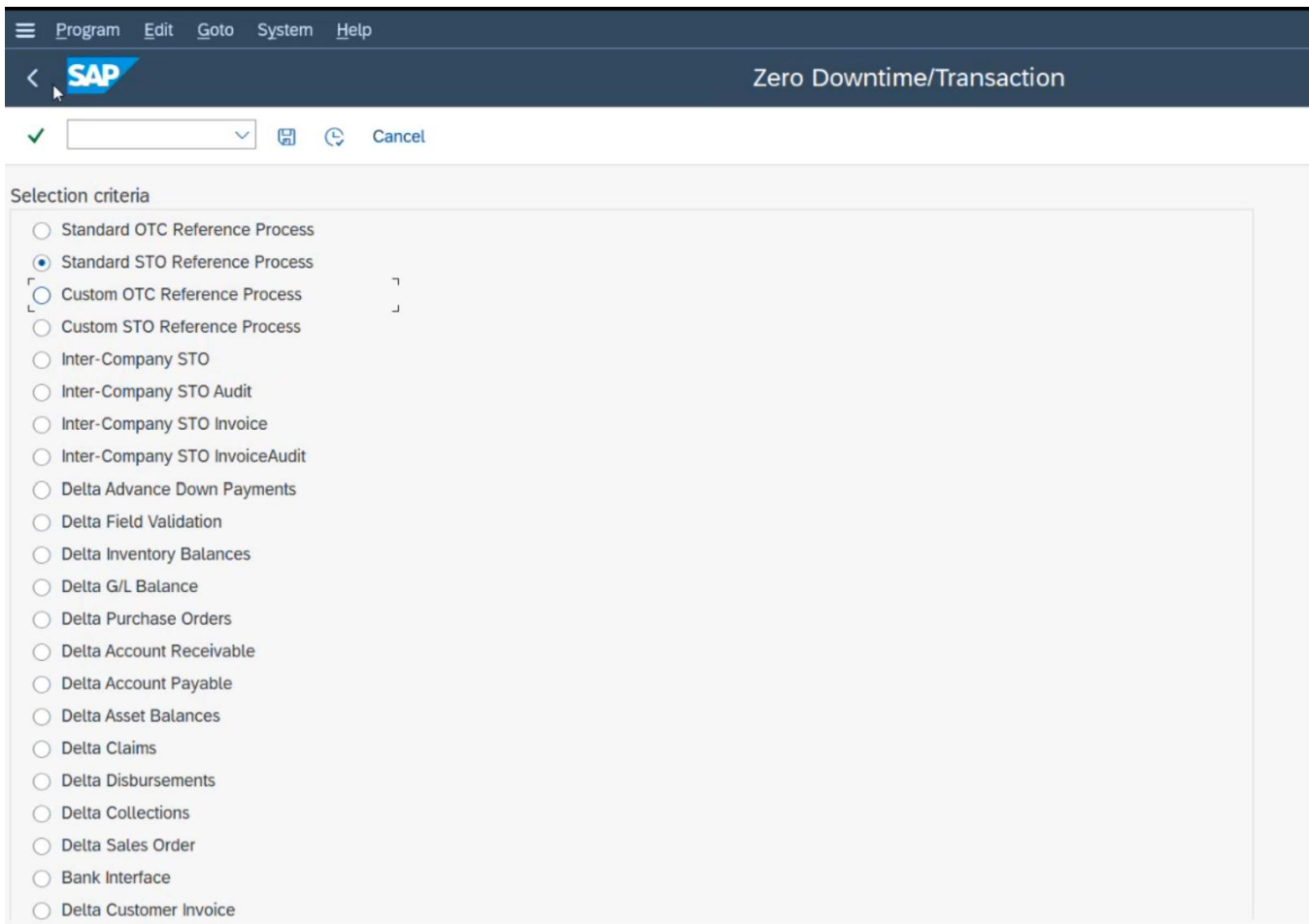


Fiori ID	Technical name	Role	Odata Service Name	Success	App Name	Application Type	Business
F0400	CA_FIORI_INBOX		C_CONTRACT_FS_SRV	F0400A	My Inbox - Approve Purchase Contracts	Transactional	
F0401	CA_FIORI_INBOX	SAP_BR_MANAGER_PROCUREMENT	C_PURREQUISITION_FS_SRV	F0401A	My Inbox - Approve Purchase Requisitions	Transactional	SAP_FN
F0402	CA_FIORI_INBOX	SAP_BR_PURCHASING_MANAGER	C_PURCHASEORDER_FS_SRV	F0402A	My Inbox - Approve Purchase Order	Transactional	SAP_PF
F0409	FIN_TRTA_CRE_S1	SAP_BR_TRV_ASSISTANT	TRV_UI_SB_MTR_ARRANGER_MNG	F0409B	Travel Requests for Travel Assistant	Transactional	SAP_FL
F0410	CA_FIORI_INBOX	SAP_BR_MANAGER	TRV_ATE_S4_SRV	F0410A	My Inbox - Approve Travel Expenses	Transactional	SAP_FN
F0540	PS_RESVN_OVWS1	SAP_BR_PROJ_LOG_CONTROLLER	PS_PROJ_MAT_COMPONENT_SRV	F0540A	Product Component	"Fact sheet"	SAP_PS
F0545	CA_FIORI_INBOX		TASKPROCESSING	F0545A	My Inbox - Approve Supplier Invoice	Transactional	
F0576	RECIPE_FINDERS1	SAP_BR_ADMINISTRATOR_RCP_DEV	CA_FM_FEATURE_TOGGLE_STATUS_SRV	F0576A	Recipe Finder	Transactional, Analytical	SAP_PL
F0576A	RECIPE_FINDERS1	SAP_BR_ADMINISTRATOR_RCP_DEV	CA_FM_FEATURE_TOGGLE_STATUS_SRV		Recipe Finder (S/4HANA)	Transactional	SAP_PL
F0584A	FIN_TETA_CRE_S1	SAP_BR_TRV_ASSISTANT	UI_TRVLEXPANRRANGERMNGV2	F0584B	Travel and Expenses for Travel Assistant	Transactional	SAP_FL
F0584B	FIN_TETA_CRE_S1	SAP_BR_TRV_ASSISTANT	UI_TRVLEXPANRRANGERMNGV2				SAP_FL
F0586	RT_STOCK_CORS1	SAP_BR_RFM_STORE_ASSOCIATE	RETAILSTORE_STOCK_CORR_SRV		Adjust Stock	Transactional	SAP_RF
F0670	PP_CHANGER_DTS1	SAP_BR_MATL_PLNR_EXT_PROC	PP_MRP_COCKPIT_SRV		Manage Change Requests	Transactional	SAP_SC
F0671	WLM_TASKS1	SAP_BR_INS_CLAIMS_SUPERVISOR	ICL_WLM_TASKS		Workload Management - Tasks	Transactional	SAP_IN
F0673A	FIN_APPBNKPMT	SAP_BR_AP_MANAGER	FAP_APPROVEBANKPAYMENTS_SRV		Approve Bank Payments (Version 2)	Transactional	SAP_SF
F0692	FIN_MNTRPAYTS	SAP_BR_AP_ACCOUNTANT	FAP_MONPAYBATCHS_SRV	F2388	Monitor Payments	Transactional	SAP_SF
F0700	FIN_CORR_REQ	SAP_BR_MANAGER	FCO_CORE_SRV		Correction Request	Transactional	SAP_SF
F0702	FSCM_DISPUTE_M	SAP_BR_AR_ACCOUNTANT	API_DISPUTECASEASCOORDTR	F0702A	Manage Dispute Cases (Version 2)	Transactional	SAP_SF
F0702A	FSCM_DISPUTE_M	SAP_BR_AR_ACCOUNTANT	API_DISPUTECASEASCOORDTR		Manage Dispute Cases (Version 2)	Transactional	SAP_SF
F0703	FIN_CUST_BAL2	SAP_BR_AR_ACCOUNTANT	FAR_BALANCES_V2_SRV	F0703A	Display Customer Balances (Version 2)	Analytical	SAP_SF
F0703A	FIN_CUST_BAL2	SAP_BR_AR_ACCOUNTANT	FAR_BALANCES_V2_SRV		Display Customer Balances (Version 2)	Analytical	SAP_SF

Zero Downtime Migration

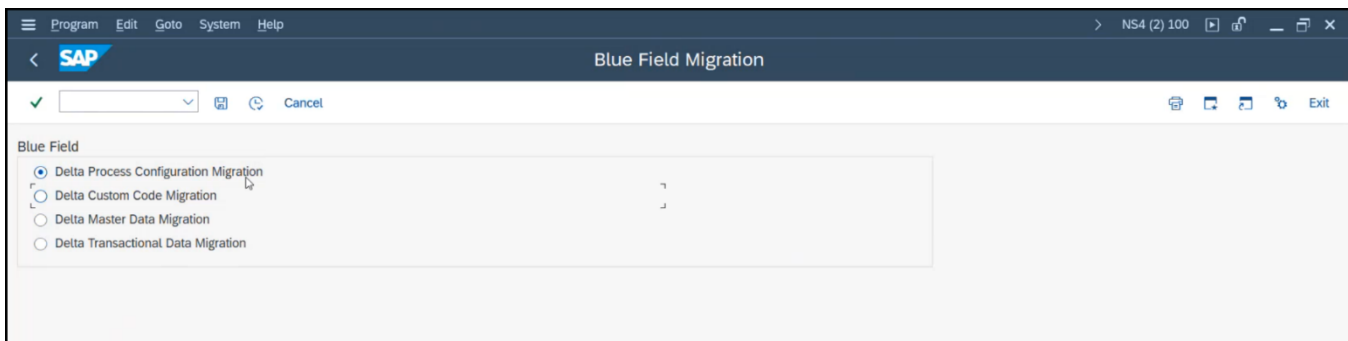
For business-critical processes that must continue operating during migration, Haneya provides a zero downtime (ZDT) capability. This component:

- Transfers all records and documents from ECC to S/4HANA in delta cycles
- Handles delta sync at cutover to capture any transactions processed during migration
- Provides audit reports for every process, evaluating records transferred and flagging errors
- Supports STO (Stock Transport Order) and intercompany processes



Part II: Bluefield — Selective Delta Migration

The Bluefield component of the Haneya tool enables selective, delta-based migration of configurations, custom code, master data, and transactional data from ECC to S/4HANA. Rather than a full system conversion, Bluefield allows organizations to choose what to migrate, what date range to cover, and how to validate and govern each data transfer.



Configuration Migration

Haneya's Bluefield configuration migration operates on two input parameters: a date range and an RFC (Remote Function Call) connection string between ECC and S/4. The tool automatically identifies all transport requests (TRs) that fall within the specified date range — including those spanning multiple related business processes — and

migrates them to the S/4HANA system. Mass processing via background job supports large volumes of transport objects.

Custom Code Migration

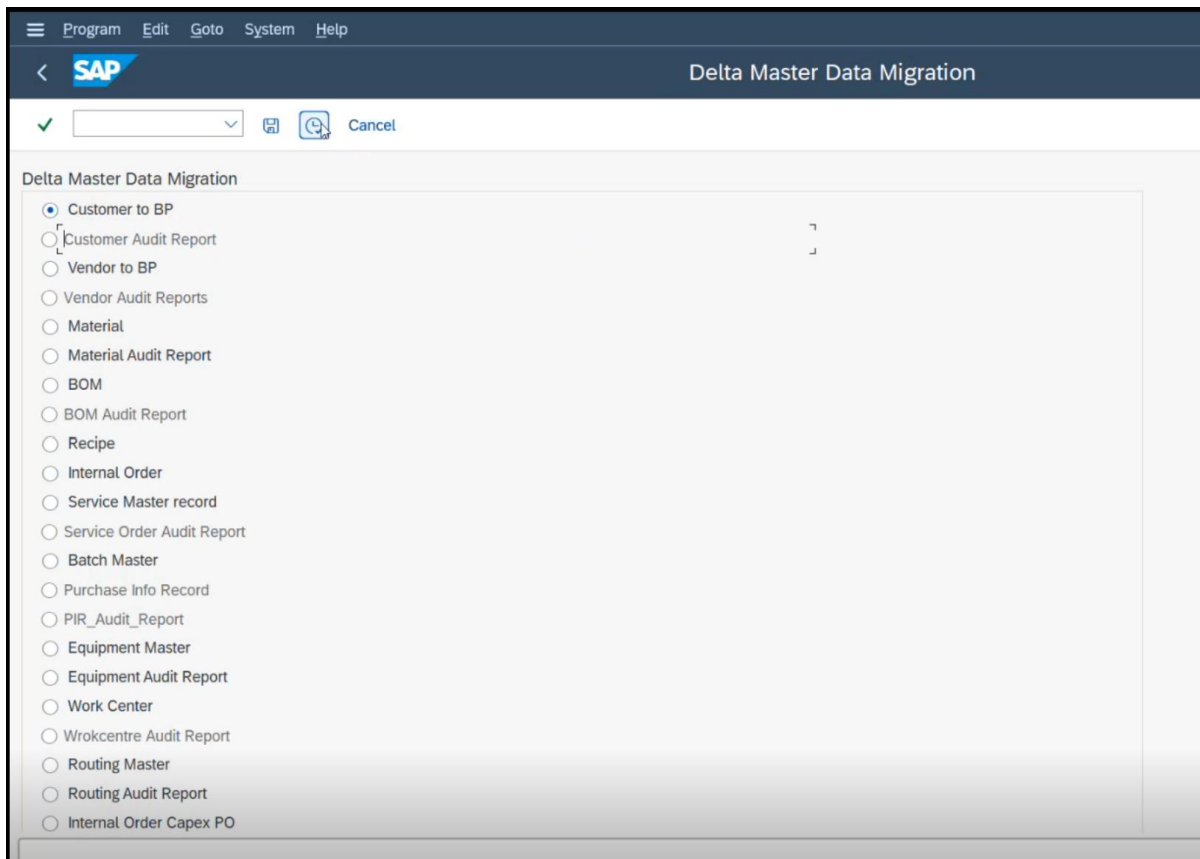
For organizations with significant custom development, Haneya's Bluefield code migration allows selective extraction of code objects from ECC packages. By specifying a date range and a package name (e.g., a Finance package, an SD package), teams can extract and migrate only the relevant custom objects to S/4HANA — avoiding the need to migrate an entire codebase at once. This targeted approach reduces risk and accelerates the migration of specific functional domains.

Delta Master Data Migration

Master data created or updated in ECC after the initial migration cutover must be synchronized to S/4HANA. Haneya's delta master data migration handles this automatically. Coverage includes:

<p>Customer to Business Partner (BP)</p> <p>Haneya extracts customers from ECC (filtered by sales organization, distribution channel, and division) and automatically creates and extends Business Partners in S/4HANA — handling the structural transformation from legacy customer master to the unified BP model.</p>	<p>Vendor to Business Partner (BP)</p> <p>Vendor records from ECC are migrated to S/4HANA as Business Partners with appropriate role extensions. Full audit reporting is provided per record, including AI-assisted error resolution for BP creation failures.</p>
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For each migration run, Haneya generates a detailed audit report showing the source record, the created BP in S/4HANA, and any processing errors — which can be resolved with a single click using the AI-powered reprocessing engine.



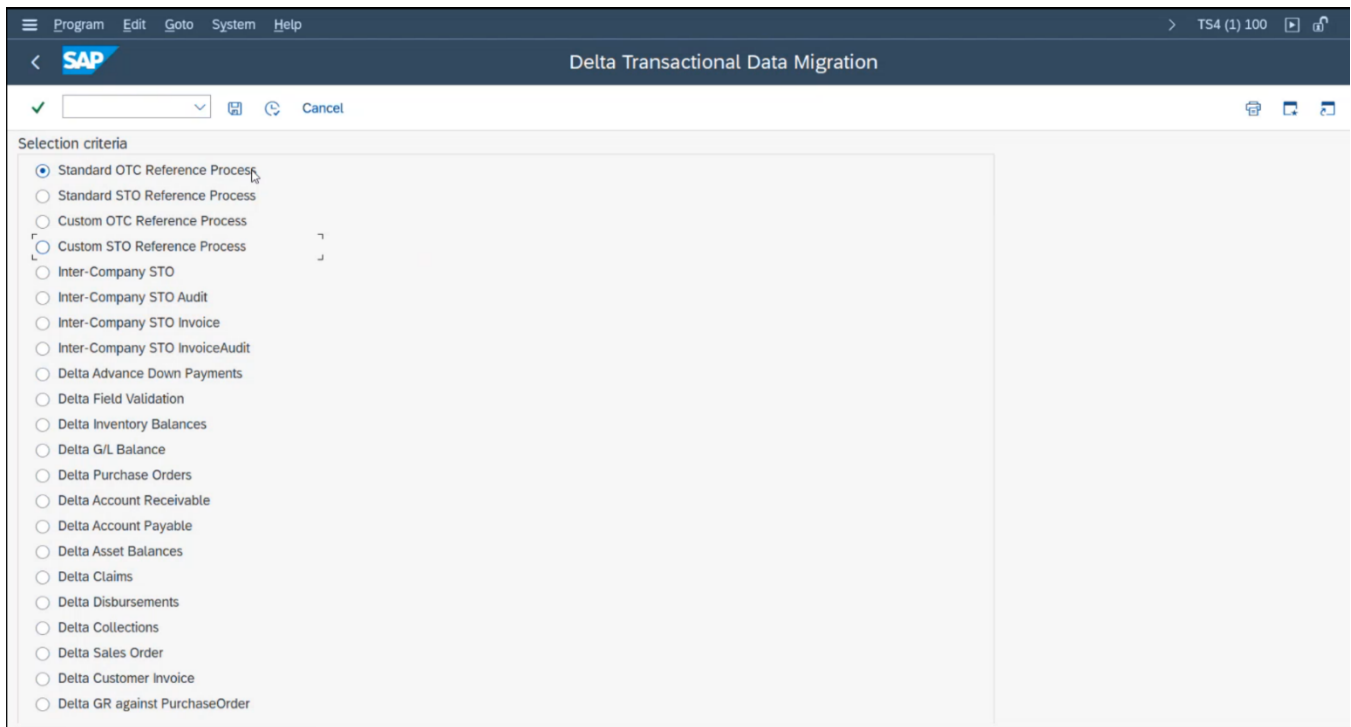
Transactional Data Migration

Transactional data migration is one of the most complex aspects of any S/4HANA project. Haneya's Bluefield module handles delta transactional migration across the full order-to-cash and procure-to-pay cycles, including:

Order-to-Cash (OTC)	Intercompany	Finance (FI/GL)	Procurement (STO)
<ul style="list-style-type: none"> Delta Quotation Delta Sales Order Delta Outbound Delivery Delta Shipment Cost Document Billing Document 	<ul style="list-style-type: none"> Intercompany OTC process Cross-company transactional sync Full audit trail per document 	<ul style="list-style-type: none"> Delta GL Balance migration FI open item transfer Financial document delta sync 	<ul style="list-style-type: none"> Standard STO process Stock Transport Orders Delta procurement documents

For each transactional process, the tool filters data by date range, sales organization, distribution channel, division, and sales document category — ensuring only the relevant delta records are selected. Documents already existing in the target S/4HANA system are automatically detected and skipped, preventing duplication. For each process, Haneya provides:

- Pre-migration validation report showing which documents will be created
- Execution engine that generates documents in S/4HANA from ECC source data
- Post-migration audit report with full record-level status
- AI-powered reprocessing for any records with errors (e.g., condition value mismatches, missing configuration)



AI-Powered Error Resolution & Audit Intelligence

A distinctive capability of the Haneya tool is the integration of AI-assisted error handling throughout the migration lifecycle. Rather than requiring technical consultants to manually diagnose and fix each failed record, Haneya's AI engine:

Automated Error Detection	All migration processes generate real-time audit reports flagging records that fail validation or creation — with root cause detail (e.g., condition value mismatch, missing BP role, incomplete master data).
One-Click AI Reprocessing	Users can select failed records and trigger AI reprocessing, which automatically analyzes the error and applies the appropriate fix — eliminating hours of manual consultant investigation.
Haneya Code Annotations	Every code remediation is marked with Haneya-added comments (begin/end markers, replaced syntax logged inline) — ensuring complete traceability and auditability for SAP basis and development teams.
Audit Reports per Process	Every migration process — from master data to transactional delta — generates a dedicated audit report accessible by record number, providing full visibility for governance and compliance teams.

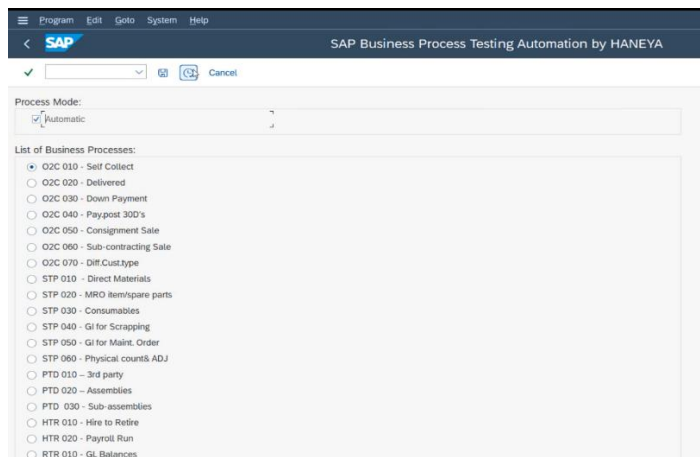
Post-Migration Test Automation

Haneya's test automation module allows functional teams to validate all system configurations after migration using Excel-based templates. Teams download a pre-built template, populate the required test data fields, and upload it back to the tool. Haneya then executes the full process lifecycle automatically — creating the complete document chain (e.g., quotation through invoice for OTC) and validating all configurations.

Test coverage includes:

- Order-to-Cash (O2C): Full cycle from quotation to invoice
- STO (Stock Transport Order) processes
- SD/TP and PT/HR processes
- If any configuration step fails, the tool identifies the specific gap — enabling targeted remediation before go-live.

All test results are accessible within the tool, showing document creation status at each step. Successful configurations are confirmed in green; failures are flagged with the specific issue to be resolved.



Business Benefits for Enterprises

Adopting the Haneya Hybrid Migration Solution delivers measurable, quantifiable value across the transformation program:

<p>40–50% Effort Reduction</p> <p>Haneya's automation of technical remediation, data migration, and validation directly reduces the manual consulting effort required — translating to significant cost savings on project delivery.</p>	<p>40 Cents Saved to the Dollar</p> <p>Rapid data carve-out, custom code remediation, and security automation together save an estimated 40 cents on every migration dollar compared to manual approaches.</p>	<p>Zero Downtime Achievable</p> <p>The ZDT (Zero Downtime) architecture enables continuous business operations throughout the migration, eliminating the need for extended system outages.</p>
<p>100% Process Accuracy</p> <p>Automated remediation and validation ensure that all code changes, data migrations, and configuration transfers are executed with precision and without manual error introduction.</p>	<p>40–50% Faster Migration</p> <p>Custom code and security remediation speed is accelerated by 40–50% versus manual approaches, compressing overall project timelines significantly.</p>	<p>Audit-Ready Traceability</p> <p>Every remediation, migration, and transformation is fully logged with annotations, transport records, and audit reports — meeting enterprise governance and compliance requirements.</p>

Why Haneya: Key Differentiators

The Haneya Hybrid Migration Solution stands apart in the SAP migration market through a combination of technical depth, automation breadth, and intelligent tooling:

<p>Native SAP Integration</p>	<p>Haneya sits within the SAP landscape — not as an external tool — enabling direct access to ECC and S/4HANA objects, transport management, and system-level operations without third-party middleware.</p>
<p>Combined Brownfield + Bluefield</p>	<p>Most tools address either technical conversion or selective migration. Haneya uniquely orchestrates both in a single platform, allowing enterprises to run Brownfield remediation and Bluefield delta migration concurrently.</p>
<p>AI-First Error Resolution</p>	<p>Rather than generating error logs for manual review, Haneya integrates AI reprocessing directly into every migration workstream — turning error resolution from a consultant-intensive activity into a one-click operation.</p>
<p>End-to-End Coverage</p>	<p>From the first incompatibility report to post-migration test automation, Haneya covers the entire migration lifecycle without requiring separate tools, bridging assessment, remediation, migration, and validation.</p>
<p>Extension of SAP SLT 2.0</p>	<p>For zero downtime scenarios, Haneya extends SAP SLT (System Landscape Transformation) 2.0 capabilities — ensuring alignment with SAP's native transformation toolset while adding automation and AI intelligence.</p>
<p>Inherent Test Automation</p>	<p>Built-in test automation using Excel-based templates means functional teams can independently validate configurations after migration, reducing dependency on technical consultants for sign-off activities.</p>

Conclusion

For enterprises navigating the complexity of ECC-to-S/4HANA migration, choosing between Brownfield and Bluefield is a false dilemma. The Haneya Hybrid Migration Solution dissolves that choice — delivering the technical conversion thoroughness of Brownfield alongside the selective, data-first flexibility of Bluefield, unified in a single automation platform.

With built-in AI error resolution, zero downtime architecture, end-to-end audit trails, and post-migration test automation, Haneya empowers organizations to complete their S/4HANA transformation with maximum speed, minimum risk, and measurable cost efficiency.

Whether the goal is to preserve and modernize a complex ECC landscape or to execute targeted, phased migrations of specific functional domains, the Haneya tool provides the automation depth and intelligent governance to achieve S/4HANA objectives with confidence.

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