



Data Sheet

3V Solutions Automated S/4 Migration Factory

Purpose Built Enterprise ECC to S/4HANA Migrations



Automated S/4HANA Migration Factory

In the SAP world the “top of mind” topic is migrating to SAP S/4HANA. We have worked for several years assisting customers in their migrations and one major hurdle that surprised many was how long the migrations took to complete and the budget required to fund the effort. We understood that we needed to address this issue, so we researched technologies and emerging solutions. If we were to automate the lower level functions in the SAP system, we could use existing technology to build a conceptual factory to automate many of the functions involved in an S/4HANA migration? This would enable us to advise our clients on how they should best plan for their SAP S/4HANA migration, in less time with a much lower cost. Let’s take a quick tour of our *Automated S/4HANA Migration Factory*.

We start our tour with the assessment phase. Most assessments to date have been managed by dedicating many resources utilizing teams of consultants. This approach requires a lot of time (months), is expensive, and in many cases does not provide objective information to make decisions. The analysis component is very subjective and dependent on the viewpoint and agenda of the consultants. We wanted to provide an automated way to extract information from your existing ECC system and map that information to the planned S/4HANA system. To aid us we use an Automated Assessment Tool developed by West Trax. This tool was chosen because it is automated on SAP Cloud Platform, runs in less than a day, and has over 1,700 customer analyses with a benchmark database from 15 different industries. It provides an analysis of SAP systems usage based on reusable process models in electronic form. Template and rule-based process models are used to compare different SAP systems in addition to an offline analysis providing rapid transparency with minimal use of resources.

It has customizable simulation and calculation models for calculating optimization potential used to estimate project costs. The certified KPI model can be extended or customized to clients’ needs, with a presentation of results in the form of easy to use and reusable BI cockpits. In short, it provides an objective analysis of where your organization sits within the ECC framework compared to S/4HANA. We felt those credentials would be very important to our customers and provide a solid foundation for the assessment.

In order to automate the ECC to S/4HANA assessment and meet the objective to reduce assessment times from months to weeks, we require an objective analysis of the current state of your ECC environment covering:

- Custom Developed Code
- Absolute number of custom code transactions
- Unlogged Custom Code
- Absolute number of unlogged custom code transactions
- Custom Code Usage Frequency
- Degree of Standardization
- Absolute number of used Standard transactions
- Unused Standard Potential
- Supported Enterprise Areas
- Unused Standard Functionality in these enterprise areas
- Supported Core Business Processes for top-3 supported Enterprise Areas

Automated S/4HANA Migration Factory

- Performance of Custom Developed Code
- Performance of Standard Transactions
- Job Investigator (Detailed analysis of background job usage with drill down per company code or Org Structure)
- Trigger and Background Jobs
- Usage of New vs. Old Transactions
- Missing Documentation for Custom Code
- Object Modifications (Create, Change, Display)
- Maturity Level of analyzed system based on the Maturity Model for SAP Systems
- SAP S/4HANA Migration impacts on used Standard Functionalities

These results allow our consultants to turn these results into advice for action needed to begin to chart the course of your SAP Journey.

Examples

- What EHP level is the system?
- What database are you migrating from/ to HANA?
- What is the target – cloud, on premises, SAP Public cloud or other hosting options
- ABAP Code which should be moved
- ABAP Code which should not be moved
- Configuration that should be moved
- Configuration that should not be moved

The outcome is a bridge between the “As-Is” and “To- Be” delivering transparency and control, with a framework for decision making to accelerate the project, decrease costs and mitigate risk.

Client action plans are developed to improve the current system to the best possible target state. Every action plan is described in detail including a cost/benefit analysis. Priorities are defined and feasibilities are discussed taking the overall client situation into account. Migration strategy plans are developed to decide if a Greenfield, Brownfield or Hybrid approach will be utilized.

In our analysis we are assuming a Brownfield approach moving forward. Detail information is provided to build the business case. The assessment tool has taken the guesswork out of your maturity level and the impacts an S/4HANA migration will have on your existing environment. We then analyze the simplification list coupled with your enhancements to determine the impact. The assessment results also assist in finalizing the migration roadmap, which includes the architecture, licenses, timeline, and cloud vs on premise strategy.

The next component of the Automated S/4 HANA Migration Factory deals with Testing. Test Cycle Manager is set up and run in the existing SAP ECC system to be migrated. This is an automated testing application performed to determine existing processes and data while setting a baseline that can be used for training. The software is a resident of SAP and no server is required, no separate log on or maintenance, and uses SAP Project Definitions. When the migrations are underway this baseline will be utilized to verify the results between ECC and S/4HANA.

The next component of the factory is the Automated Migration Toolset. This solution encapsulates all migration activities together to handle the SAP HANA in an automated process with minimal human interaction, optimizing the cost and effort by 40-60%. Capabilities provided in this component include:

- Process Configuration
- -Master Data Remediation
- -Security Role updates
- -Custom Code Tool that remediates custom code incompatibilities

Automated S/4HANA Migration Factory

The automation cuts your master data effort, time, and cost in HALF. It automates the data mapping and data transformations into new data elements, and data resolutions. In addition, for the new data model and business rule inconsistencies, it provides a guided framework for the data stewards to update the master data using Guided Master Data remediation (GMD). Further, perpetually, it is a good tool for data quality checks and data dialysis to measure accuracy and quality of the data proactively. It takes appropriate actions to cleanse the data perpetually, so the data is 100% error free – a good Quality Assessment (QA) tool.

What does this save? To quantify the savings, as a case in point, the following are key resource and timeline savings:

- 100% error free data
- High quality Product Information Management (PIM)
- The effort and timeline reduced by HALF – 50% overall effort reduction
- Speed to Master Data Implementation by 50-60%
- Optimizes Master Data Stewards FTE – ON GOING – 60% FTE Synergy Savings

The software maps, transforms and updates the masters automatically to match with the industry data model for the above inconsistencies. In so doing it performs the following automation:

- Maps the fields from SAP to Industry Model data elements
- Transforms the old data elements into new data elements and fit them into the PIM records.
- Uploads the inconsistencies and updates all Materials automatically.

For Business Rules inconsistencies, we execute the following via Guided Data Automation process (GDA):

- Download of all Materials with inconsistency fields along with field details
- Data stewards or business users update the inconsistent fields with correct values and save the document as run upload
- Upload the inconsistencies and update all Materials automatically.

Remember the Test Cycle Manager in the ECC system was run on the frontend of the migration. It is now installed and run in the S/4HANA system to verify that processes/ transactions actually work after migration (note new simplified transactions will need to be recaptured in S/4HANA TCM)

- From run-and-you're-done to complex scenarios
- Automated execution or migration verification baseline
- Manual execution for training
- Resident in SAP – no server required, no separate log on or maintenance – Uses SAP Project Definitions

The initial objective for the *Automated S/4HANA Migration Factory* was to provide clients an effective and efficient way to reduce the cost and time to migrate to S/4HANA. We began our efforts by addressing assessment, migration, and testing activities. We applied smart technology and software to accomplish this mission. Assessments have been significantly reduced from months/years to weeks. The detail migration tasks (code, configuration, data) have been reduced 40% to 60%. Finally, automated testing has allowed for migration verification on both the ECC and S/4HANA systems. The reduction in time has yielded our clients considerable savings in hard dollars.

We are committed to excellence with the S/4HANA migration factory process. We would be glad to provide a demonstration of capabilities and how they can benefit your organization. For additional information visit us at www.3VSolutions.com.

Automated S/4HANA Migration Factory



About 3V Solutions

As a long-standing SAP Partner and SAP Master Value Added Reseller, with over three decades of SAP Implementation experience, our SAP expertise is unmatched in the industry. Our commitment to S/4 HANA implementations and migrations, Business Analytics, and Enterprise Information Management (EIM), using disruptive automated technologies for assessments and migrations alike, enables us to deliver unparalleled product strategy and solutions.

Every technology, methodology and solution we deploy is accomplished with the customer's success in mind. Whether your organization is small, medium or a Fortune 500 company, we provide value across the lifecycle of SAP. We help companies around the globe to identify, measure, automate and optimize their SAP investments.

Our extended offerings provide powerful insights and automations that drive enhanced performance!