

# IBM Intelligent CODEVENTION for SAP Solutions

Bring your own ABAP code and personalize according to naming convention and optimize as per coding rules



## Highlights

Bring in your own ABAP Code or generate from User Story

Refactor code as per uploaded naming convention and regenerate it

Regenerate code as per selected best practice

Highlight code differences and integrate with SAP using Git Repository

While writing SAP code, it is important for developers to follow naming conventions and best practices. However, due to wide technical ability of developers and due to delivery pressure, these guidelines are often missed. It becomes the responsibility of code reviewer to check each such defined object and correct it manually.

Subjective aspects like rules and standards are checked line by line in an ABAP code base and corrections are done manually. In a large project with huge number of custom-built ABAP objects, it is time consuming and very labor intensive.

IBM Intelligent CODEVENTION for SAP Solutions helps the user/reviewer to generate the code from a user story or bring in existing ABAP code library. This solution will provide 2 entry points to the user – either refactor the code based on naming convention guide or refactor the code based on coding rules and standards.

The naming convention guide is uploaded as a document which is then referred to by the LLM to extract the naming convention rules to be followed. The code is also parsed by LLM to extract the variables defined in the ABAP constructs. A programmatic comparison follows, and the changes made to objects are highlighted.

The different coding standard rules can be selected and used to check the ABAP code base sequentially. The regenerated code from each rule is refreshed and input to the next rule check. The personalized code can be copied over and checked for optimization and vice versa.



Figure 1 IBM Intelligent Data Genie for SAP Solutions generate code

### **Refactor your own ABAP Code or Generate from User Story**

Leverage SAP metadata to browse and select relevant tables for synthetic data generation, ensuring accuracy and consistency. Choose from a wide range of SAP tables, including Material Master, Customer Master, and Vendor Master, to create comprehensive test data sets.

### **Choose Desired Fields from the SAP Tables**

Select specific fields from the chosen SAP tables to tailor the synthetic data generation to your testing needs, with options to include or exclude fields as required. Define the scope of your test data by choosing fields such as material descriptions, customer addresses, or vendor details, and more

### **Generate Synthetic Data using Value Restrictions.**

Apply value restrictions to control the generated synthetic data, ensuring it meets specific testing requirements and mimics real-world scenarios. Define rules for data generation, such as data formats, ranges, and distributions, to create realistic and relevant synthetic data for your SAP testing needs.

### **Download the data for loading in SAP for all the generated tables.**

Download the generated synthetic data in Excel format, ready for easy upload into your SAP system, with all selected tables and fields populated with realistic and consistent data. Export the data in a format compatible with SAP's data loading tools, such as LSMW or SAP Data Services, to streamline the testing process and reduce data loading errors.

## Conclusion:

IBM Intelligent Data Genie for SAP Solutions generates synthetic test data for SAP systems, transforming the way organizations approach testing and development. By leveraging this innovative tool, clients can reap a multitude of benefits, including significantly reduced data privacy risks, as sensitive production data is no longer required for testing. Additionally, the IBM Intelligent Data Genie for SAP Solutions increases testing efficiency by automating the data generation process, freeing up valuable resources and reducing the time spent on manual data creation. Furthermore, the solution improves data quality by generating realistic and consistent test data, which in turn enhances the accuracy and reliability of test results. As a result, clients can accelerate their SAP projects, reduce costs associated with manual data creation and testing, and ultimately enhance system performance.

## Why IBM

IBM Consulting's more than 21,000 data and AI professionals are ready to help accelerate clients' business transformations with enterprise-grade AI, including technology from SAP, IBM and other partners through a collaborative and open ecosystem approach. IBM Consulting works with a diverse AI partner ecosystem that embraces multiple models on multiple clouds from industry leaders. This helps clients choose the right models and the right architecture best for them. We accelerate business transformation for our clients through hybrid cloud and AI technologies. With deep industry expertise spanning strategy, experience design, technology, and operations, we have become the trusted partner to many of the world's most innovative and valuable companies, helping modernize and secured their most complex systems. Our 160,000 consultants embrace an open way of working and apply our proven co-creation methodology, IBM Garage, to scale ideas into outcomes.

## For more information

To learn more about IBM Intelligent Vendor Onboarding for SAP Solutions contact your IBM representative or IBM Business Partner, or visit <https://ibm.biz/IBM-SAP-Value-Generation>

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