

# AI-driven test data automation for SAP software delivery

Rapid, realistic, compliant test data for SAP testing and development

## What is the Synthesized platform?

Synthesized is the only SAP-native test data management platform that combines AI-driven synthetic data generation with full end-to-end test data lifecycle management across SAP and non-SAP landscapes.

It delivers production-like, compliant SAP test data on demand so teams can accelerate S/4HANA programs, release faster, and reduce delivery risk without relying on fragile production copies.

## Why non-native SAP TDM struggles with SAP testing

- ⚠️ Complex SAP modules, business objects and relationships make manual test data creation slow, brittle, and hard to scale.
- ⚠️ Full-copy refreshes of SAP production databases are expensive, slow, and increase compliance risk in non-production environments.
- ⚠️ SAP test automation tools stall without a continuous supply of realistic, business-ready data.
- ⚠️ Cross-system processes (for example, S/4HANA + Ariba + Salesforce) require consistent data across SAP and non-SAP systems to validate true end-to-end flows.

## Benefits of being SAP-native



Connects directly to SAP HANA and S/4HANA with purpose-built integration for module-aware data scoping, automatic relationship mapping, and intelligent sensitive-data masking.



Preserves SAP business logic and referential integrity across modules so that end-to-end processes such as Order-to-Cash, Procure-to-Pay, and Record-to-Report execute correctly in test environments.

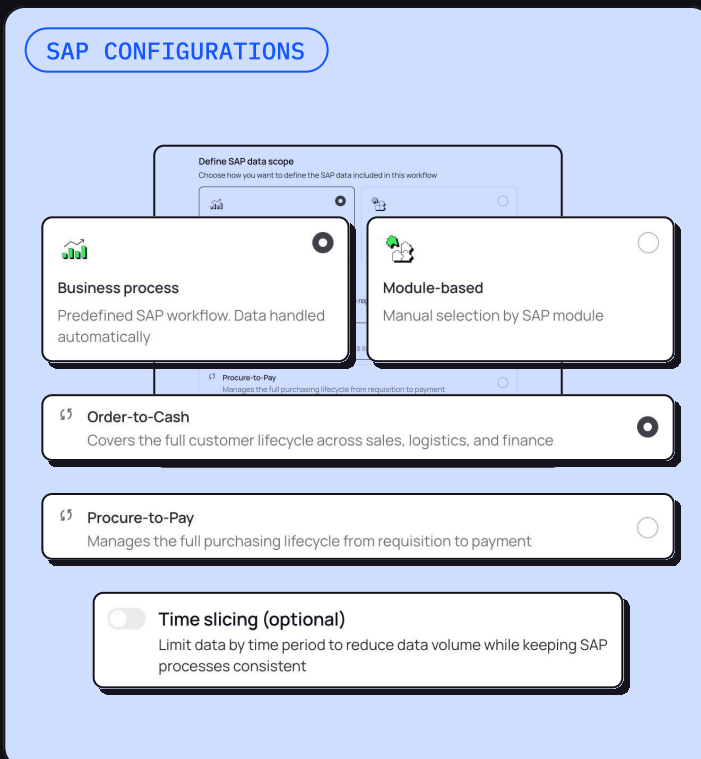


Reduces setup time from weeks to hours while standardizing how test data is created and refreshed across regions and SAP instances.

## USE CASES

# Test smarter with AI-powered test data automation

Test automation depends on a continuous supply of high-quality test data. By automating sensitive-data detection, masking, synthetic generation, and provisioning, Synthesized removes manual bottlenecks and unlocks true end-to-end SAP test automation.



## Test data intelligence for SAP and non-SAP system testing

### Enterprise continuous change impact testing

CI/CD-native data provisioning keeps SAP regression suites and Tosca packs always test-ready with fresh, realistic datasets.

### Cross-system integration testing

Scenario-rich data across SAP, Ariba, Salesforce, logistics, and other systems to validate stable, production-like end-to-end flows.

### Enterprise performance and load testing

High-volume synthetic datasets that mirror production distributions to validate S/4HANA performance, capacity, and peak-event readiness.

### Privacy-safe non-production environments

Replace production copies with synthetic, compliant datasets in dev, QA, sandbox, and pre-prod, eliminating PII exposure while retaining realism.

### S/4HANA migration validation testing

Production-like datasets for migration dry runs, cutovers, and hybrid ECC-to-S/4HANA testing to reduce cutover risk and hypercare costs.

## Capability

## What Synthesized delivers for SAP

### SAP-native integration

Direct SAP HANA/S/4HANA connectivity with module-aware scoping and virtual foreign key mapping.

### Schema intelligence

AI-powered discovery of SAP module relationships and dependencies, cutting initial setup from weeks to hours.

### Synthetic data generation

ML-driven synthetic data that mirrors SAP distributions while removing PII, preserving business logic and edge cases.

### Data protection

SAP-aware masking templates and policy-driven privacy controls for finance, HR, and customer data, aligned to GDPR and SOX.

### Lifecycle automation

Copy, time-slice, subset, mask, generate, and provision from a single SAP-native TDM platform.

### DevOps & CI/CD

API, CLI, YAML & business UI workflows to embed test data into CI/CD, GitOps, and environment refreshes.

### Test automation

Native integration with the SAP QA toolchain, including Tricentis Tosca, to keep automated test suites continuously data-ready.

### Cross-system coverage

Consistent datasets across SAP and non-SAP apps for Order-to-Cash, Procure-to-Pay, Record-to-Report, and more.

### Deployment options

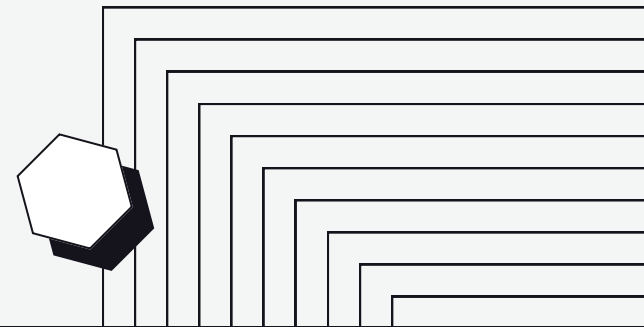
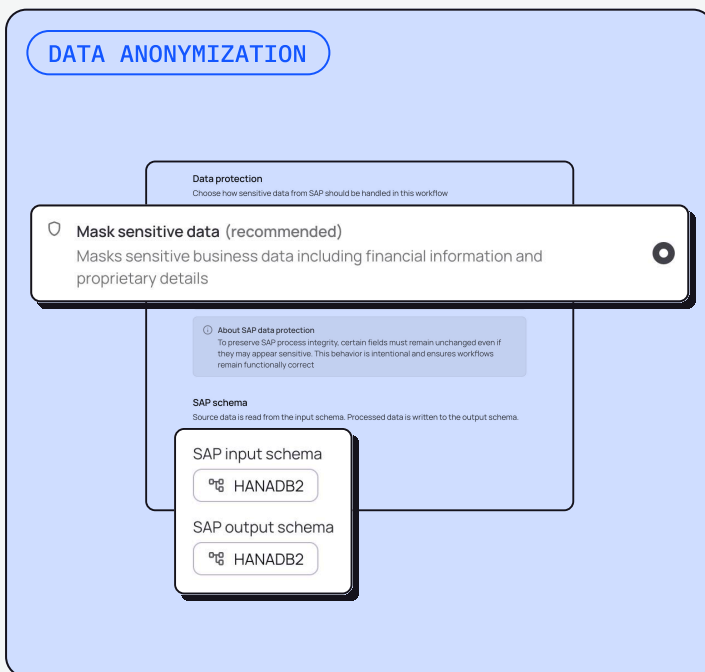
Private cloud, on-prem, or hybrid deployments with minimal footprint and no vendor lock-in.

# SAP-native test data intelligence

SAP testing is only as good as the data behind it. Synthesized's SAP-native test data intelligence exposes edge cases and risks in critical business processes as SAP systems evolve through migrations, feature packs, and configuration changes.

Synthesized automates the essential test data operations needed for SAP testing and quality assurance in a single enterprise platform.

- ✔ **SAP-native test data automation** that understands module boundaries, virtual foreign keys, master & transactional data and SAP business logic.
- ✔ **Synthetic data generation at any scale**, plus data copying, time-slicing, subsetting, masking, and provisioning from one platform.
- ✔ **DevOps-native APIs, CLI, data-as-code & business UI workflows** that integrate into CI/CD, Tricentis Tosca, and broader test automation pipelines.
- ✔ **Unified control plane** across SAP and non-SAP systems for end-to-end scenario coverage and consistent data across applications.



 **Learn more**

Ready to accelerate SAP transformations and enable continuous SAP testing with compliant, production-like data on demand?

Visit [synthesized.io](https://synthesized.io) to speak with our team.

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