SAS2PY

SAS2PY Platform Overview

SAS2PY is the industry's first fully on-premise, parser-driven **Oracle Data Integrator (ODI)** migration and transformation platform. Purpose-built for organizations modernizing legacy Oracle ODI environments—including interfaces, mappings, packages, procedures, and load plans—SAS2PY transforms these assets into modern, cloud-native formats optimized for **Snowflake, Databricks, BigQuery, Redshift, Microsoft Fabric, and DBT**.

With unmatched accuracy, security, and speed, SAS2PY helps organizations reduce risk, control cost, and accelerate their cloud data modernization roadmap.

What Makes SAS2PY Different

- **Parser-Driven ODI Conversion**
  No AI hallucination—every ODI object is parsed, transformed, and fully auditable.
- **Secure On-Premise Deployment**
  Run entirely within your infrastructure (on-prem or VPC). No code or data ever leaves your environment.
- **Full Metadata & Transformation Preservation**
  ODI mappings, variables, reusable components, and schema relationships are intelligently retained and mapped to modern frameworks.
- **Built-In Execution Layer**
  Execute migrated workflows natively in Snowflake, Databricks, and other platforms using visual controls.
- **(Optional) Merlin AI Developer Assistant**
  Real-time AI guidance for debugging and optimizing ODI-to-modern transformations.
- **Comprehensive Validation & Matching**
  Validate schema, data, and logic with row-level and partitioned comparisons across platforms.

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End-to-End Oracle ODI Migration Process

1. Analyze

- Automatically inventories ODI interfaces, mappings, procedures, variables, and load plans
- Maps schemas, parameters, and external connections
- Assesses complexity to prioritize high-impact conversion targets

2. Convert

- Converts ODI components into Python, SQL, and modern formats (DBT, PySpark, Snowpark, etc.)
- Retains business rules, mapping logic, and schema structures
- Generates clean, cloud-ready code with minimal refactoring

3. Validate

- Confirms schema alignment and logic fidelity between ODI and target outputs
- Performs regression testing and output comparisons
- Ensures functional equivalence and performance readiness

4. Execute

- Enables pipeline execution directly in Snowflake, Databricks, and other targets
- Supports scheduling, versioning, and pipeline packaging
- Integrates with DAG-based orchestrators like Airflow and DBT

5. Data Matching

- Validates data parity with row counts, aggregates, and KPI checks
- Performs partition-based validation by time, geography, or business units
- Automatically maps source and target schemas

6. Document

- Generates detailed, audit-ready reports
- Includes data lineage, logic transformation traceability, and rollback references
- Ensures full governance and compliance readiness

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Automated Schema Mapping

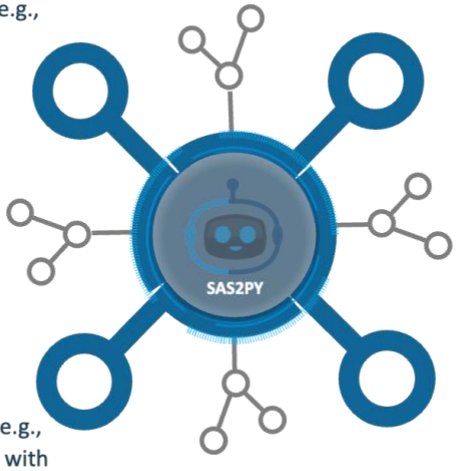
Automatically maps source schemas (e.g., **SAS**, **Oracle**, **Teradata**) to the target system for fast and efficient setup.

Metadata Comparison

Compares metadata (e.g., **table structures, indexes**) between the source and target systems to ensure complete structural alignment.

Data Type Validation

Ensures accurate translation of column types (e.g., numeric, string, date) into formats compatible with the target system, eliminating type mismatches.

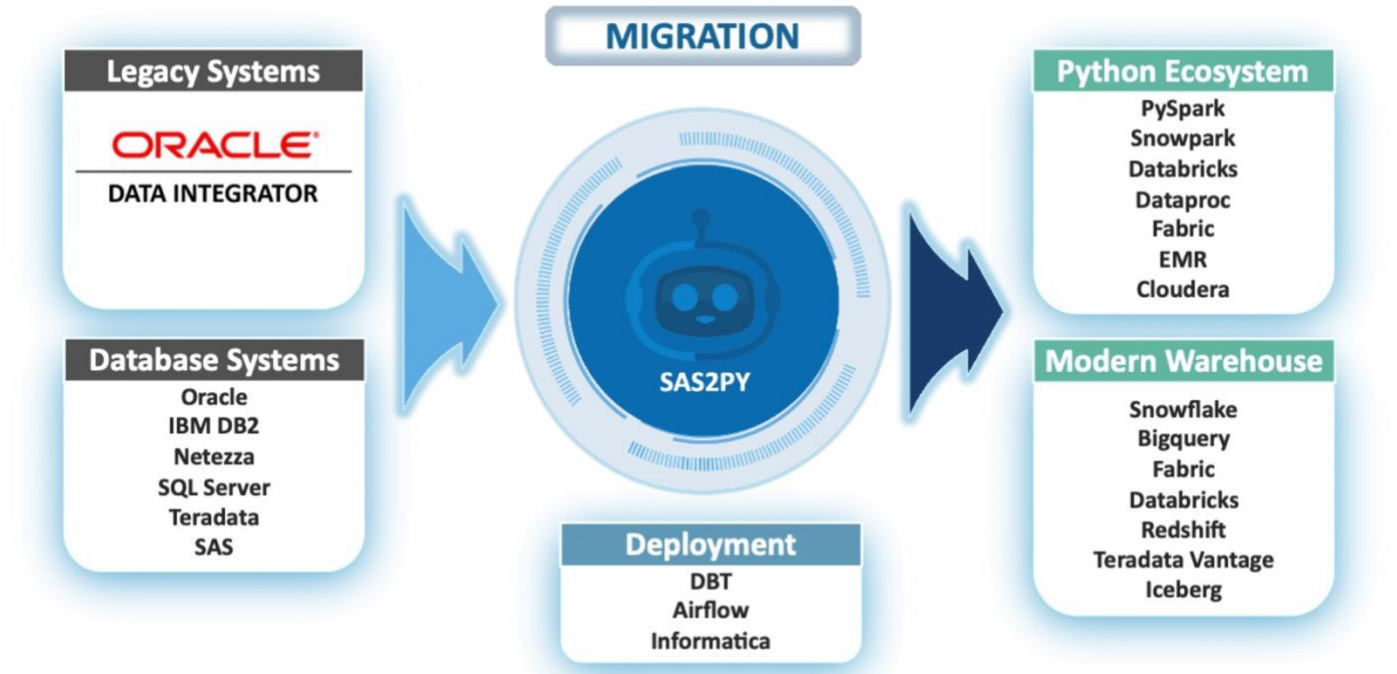


Metrics Comparison

Validates key metrics (**counts**, **sums**, **averages**, etc.) between source and target systems to confirm data accuracy.

Partitioned Validation

Performs aggregate checks by **partitions** (e.g., **date**, **region**) to ensure data consistency within subsets.



Migrate Smarter. Analyze Faster. Transform with SAS2PY.

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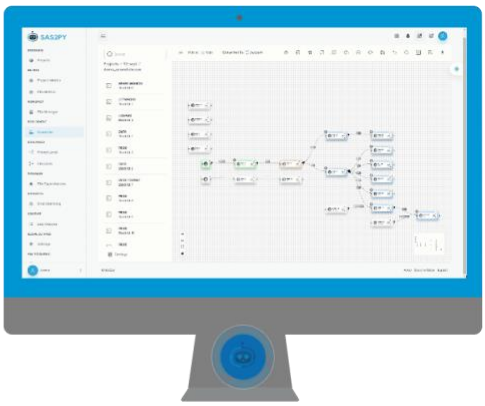
Code/Data Lineage

End-to-End Code Lineage: SAS2PY **automatically maps dependencies** across all workflows, ensuring **100% traceability before, during, and after migration**.

Clickable Lineage Exploration: Users can **click on any dataset, transformation, or script** to immediately view the **original code alongside its migrated equivalent**.



Legacy Code Preservation & Full Auditability: Every **original script** remains **fully viewable, traceable, and auditable**, ensuring **long-term historical reference and compliance validation**.

Merlin AI – The Developer Assistant (Optional)

Merlin AI is an embedded on prem GenAI assistant for developers and data engineers working with converted ODI workloads. Fully integrated into the SAS2PY platform, Merlin supports:

- Real-time debugging and transformation assistance
- Auto-rewrite of SQL and Python blocks for optimization
- Error tracebacks, logic flow explanations, and quick fixes
- GenAI-enabled context-aware chat for specific code inquiries
- On-premise optional for security-sensitive environments

Enterprise-Grade Data Matching & Validation

SAS2PY includes a powerful data validation engine to ensure consistency and trust throughout your migration:

- **Automated Schema Mapping**: Aligns source and target columns and formats
- **Data Type Normalization**: Ensures compatibility across platforms
- **Metadata Comparison**: Verifies structures, indexes, and dependencies
- **Metric Validation**: Confirms row counts, aggregates, and KPI accuracy
- **Partition-Level Checks**: Detects mismatches by date, region, or business slice

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Deployment Options & Infrastructure

- Deploy within your infrastructure or in the cloud – you decide
- Docker-based delivery; compatible with AWS, Azure, GCP, on-prem VMs
- Standard Instances: AWS m5.2xlarge, Azure D8s v3, GCP n2-standard-8
- No data or logic ever leaves your environment

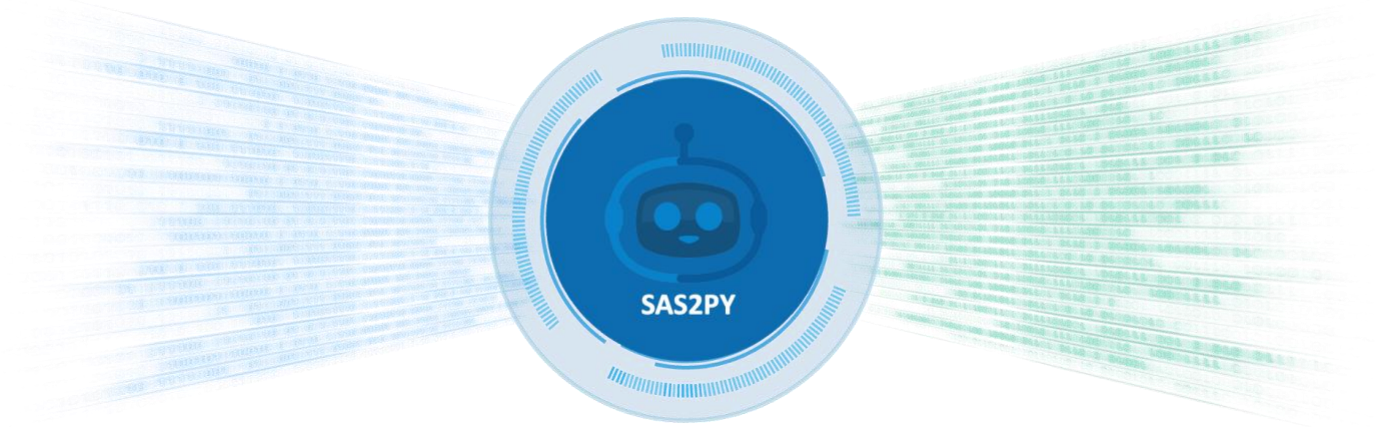
Licensing & Engagement Options

- **Volume Pricing** Tiered by LoC (lines of code) and platforms migrated
- **Proof of Concept (PoC)** 4-week paid PoC
- **Partner-Friendly** We work with many SI's, technology partners and cloud migration partners

Take the Next Step in Digital Transformation

SAS2PY is the world's most secure, parser-based Oracle ODI modernization platform purpose-built for large enterprises in regulated, data-intensive industries. Whether migrating ODI jobs, rebuilding ETL frameworks, or shifting enterprise analytics to the cloud, SAS2PY accelerates your transformation with accuracy, security, and control.

Schedule a Demo: www.sas2py.com | sales@sas2py.com



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