PERINIMBLE · GRID DATA FAMILY

Grid Data Integration Suite

Visual enterprise integration for utilities — design a flow, deploy it, watch it run.

The Grid Data Integration Suite (GDIP) connects the utility's enterprise — SAP IS-U, Oracle CC&B, Maximo, PI, market operators, and the Grid Data family itself — through integration flows designed visually. AI drafts the transformation logic from a plain-English description, deployment is a single step, and monitoring, retry, dead-letter handling, and a live API contract for every endpoint a flow exposes come built in.

KEY FEATURES

Visual flow designer

Drag-and-drop flows from source to targets — transform, route, enrich, split, aggregate, zip and unzip — triggered by messages, schedules, or on demand.

Every transport that matters

Message queues, SOAP and REST web services, FTP/SFTP, databases, cloud object storage, and files — connecting to the customer's own systems and stores.

Schema registry & mapping

Service definitions, message schemas, CSV layouts, or a sample message to infer from — bound to connectors and validators, and mapped field by field in a visual mapper.

AI-written transformers

Describe the input, output, and logic in plain English and the AI assistant drafts a ready-to-run transformer; edit and regenerate, or upload your own code.

One-click adapters

Prepackaged SAP ↔ GDM and GDS ↔ GDM adapters enable from the catalog with everything they need — no transformer uploads, no separate setup.

API management & live contracts

API keys with per-key rate limits and flow scoping, usage analytics, and client certificates — plus a live API contract for every REST endpoint a running flow exposes.

Versioned, governed flows

Every flow version is an immutable snapshot; deployments reference a specific version and can be started, stopped, and paused at runtime — no restarts.

Resilience built in

Retries, circuit breakers, and a dead-letter queue that captures failed messages with enough context to see where and why they failed, ready to replay.

Architecture map & audit

An interactive map of every application, its endpoints, and the flows between them — with monitoring and an audit log of every change and every flow execution.

Security throughout

Single sign-on, credentials encrypted at rest, PII masking in audit logs and dead-letter entries, and rate limiting and client certificates at the gateway.

USE CASES

- **SAP IS-U integration —** move master data and business events between SAP and the Grid Data Management Platform with the one-click adapter.
- **Head-end onboarding —** connect new AMI head-end systems to the platform's streaming ingestion without custom adapters.
- **Publishing APIs to partners —** expose a flow as a REST endpoint, then hand partners its live API contract and an API key.

- **Legacy modernization —** wrap SOAP and file-based interfaces in managed flows, and migrate targets without touching sources.
- **Error triage & replay —** a dead-letter queue integration teams can actually work: inspect the failed payload, fix the cause, replay the message.

BETTER TOGETHER

GDIP is the family's front door for enterprise data: it feeds the Grid Data Management Platform from SAP and head-end systems, moves outputs onward to billing and CIS, connects the simulator to GDM, and registers with the Grid Data Platform Manager like every family member.