PERINIMBLE

The Grid Data Family — Platform Architecture

Eleven applications, one connected platform — from the grid to the home.

www.perinimble.com

UTILITY DATA SOURCES

Smart Meters & AMI
HES · interval & register reads · events

SCADA & Field Devices
DNP3 · IEC-104 telemetry and events

Enterprise Systems
SAP IS-U · CC&B · Maximo · PI · GIS

Market & File Feeds
ERCOT · CSV · SFTP · cloud storage

SIMULATED IN EVERY NON-PRODUCTION ENVIRONMENT

Grid Data Simulator
Synthetic utilities · telemetry · storms · C&C

Grid Data Integration Suite

Visual integration flows — connect, transform, route · SOAP · REST · queues · files · versioned flows · replay

Streaming backbone
replayable · at utility scale

CORE PLATFORM

Grid Data Management Platform

enterprise meter data management (MDM)

Ingestion → VEE Engine → Unify → Serving

Master data · billing & CIS export · outage & PSPS · gas · device commands · virtual meters · search · field ops

Full-cycle VEE with weather-aware estimation · exception workbench · market settlement · safe reprocessing

VALIDATED, DECISION-READY DATA FOR EVERY CONSUMER

Grid Data Enhanced Analytics

GIS + SCADA + AMI · electricity, gas & water

Live map · Scenario · Faults · Gas · Water

Every asset · live telemetry · power flow & hydraulic solvers

IEEE 1366 · failure risk · data-center interconnection · UAG & leaks · night flow

MONITORING-ONLY, BY ARCHITECTURE

EXPERIENCE & GRID EDGE

Grid Data Reporting
Dashboards over databases, query engines, metrics & search · publish once, embed anywhere

Whisper-Wind
Voice navigation & actions · plain-English questions to safe, read-only answers

Home Energy Management
Behind the meter — appliance scheduling around price, solar & storage · consent-based curtailment

covers the full distribution system — feeder to appliance

Business Consumers
Billing & CIS · regulators (Green Button, IEEE 1366) · operations · planners · customers

RUN & ASSURE — THE PLATFORM AROUND THE PLATFORM

ControlPlane
Versioned releases · upgrades · backup & restore

Grid Data Platform Manager
Shared sign-on · registry · notifications

Grid Data Testing Platform
API test suites · live results · AI-drafted tests

Grid Data Conversion Testing Tool
Proves each MDMS go-live, difference by difference

Deployed together. Registered together. Tested together.

Every application uses one sign-on, ships as a versioned release, registers with the Platform Manager, and shares one design system.