

GRIDLYNK METER DATA MANAGEMENT SYSTEM

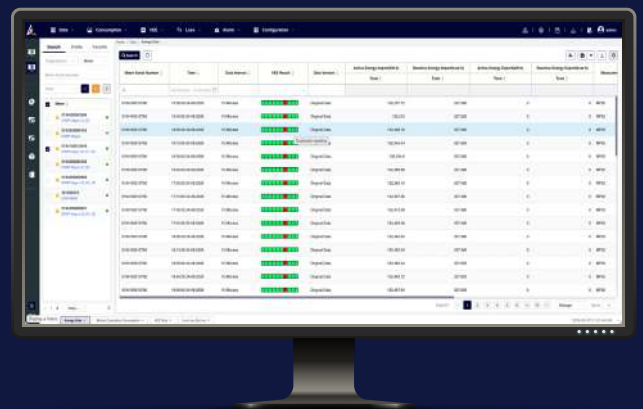
GridLynk MDM: Master Your Meter Data,
Empower Your Decisions



Effective meter data management is essential for utilities to transform the vast volumes of data generated by smart meters into accurate, reliable and actionable information.

GridLynk MDM provides a comprehensive platform to validate, process, manage and analyse metering data across the utility enterprise.

The GridLynk MDM System supports accurate billing and revenue protection through automated data validation, estimation and editing, while providing powerful tools to analyse consumption, demand and energy flows. Integrated Loss Management identifies and analyses technical and non-technical losses across the distribution network, helping utilities improve efficiency and protect revenue. GridLynk MDM also enables timely access to trusted meter data across business systems, supporting better operational decisions and improved customer service.



SOFTWARE

THE SMART CHOICE FOR ENERGY MANAGEMENT



GridLynk MDM: Key Features and Capabilities

Meter Data Management

- Centralised management of electricity, water and gas meter data
- Consolidation of interval, register and event data from multiple sources
- Historical data storage with full lifecycle traceability
- Support for multiple data formats, intervals and metering technologies

Validation, Estimation & Editing (VEE)

- Automated validation using configurable rules
- Detection of missing, invalid and abnormal readings
- Automated estimation and substitution of missing data
- Controlled data editing with quality flags and audit history
- Reprocessing following corrections or late-arriving data

Advanced Data Analytics

- Analysis of consumption, demand and load profiles
- Identification of patterns, trends and anomalies
- Historical comparison and trend analysis
- Flexible aggregation across meters, customers, locations and time periods

Loss Management

- Identification and quantification of technical and non-technical losses
- Comparison of upstream supply with downstream consumption
- Loss analysis by transformer, feeder, area or network hierarchy
- Identification of anomalies and potential revenue leakage

Billing & Revenue Support

- Preparation of validated, billing-ready meter data
- Support for interval, register and Time-of-Use billing
- Automated delivery to CIS and billing systems
- Historical correction and reprocessing of billing data

Demand & Load Management

- Analysis of peak demand and load profiles
- Identification of peak periods and network loading patterns
- Support for demand response and load management programmes

Customer Engagement

- Accurate and timely consumption information for customer applications
- Historical usage and consumption trends
- Improved investigation and resolution of billing enquiries

Events, Monitoring & Alerts

- Centralised processing of meter and system events
- Detection of data anomalies and exceptional conditions
- Configurable alarms, notifications and operational monitoring

Incident Management

- Automatic or manual creation of incidents from events, alarms and data anomalies
- Incident classification, prioritisation and assignment
- Workflow-based tracking from identification through investigation and resolution
- Complete incident history, status and audit trail

Reporting & Business Intelligence

- Configurable dashboards and data visualisation
- Scheduled and on-demand operational reports
- Flexible filtering, aggregation and data export
- Custom reporting for utility-specific requirements

Integration Capabilities

- Integration with HES, CIS, billing, ERP and other utility systems
- REST and SOAP web service interfaces (JSON, XML, etc)
- IEC 61968 CIM-based enterprise integration
- Real-time, message-based and batch data exchange (eg, Kafka)

Multi-Utility Support

- Unified management of electricity, water and gas data
- Common processing and analytics across utility types
- Consolidated multi-utility consumption views
- Data Security & Integrity
- Role-based access control and enterprise authentication
- Protection of sensitive meter and customer data
- Comprehensive data-change and user audit trails

Scalability & Performance

- Scalable elastic architecture for growing meter populations and data volumes
- High-volume processing of interval and register data
- Support for increasingly granular and high-frequency data

Regulatory Compliance

- Complete and auditable meter data history
- Traceable VEE and data correction processes
- Configurable retention and compliance reporting

Disaster Recovery & Backup

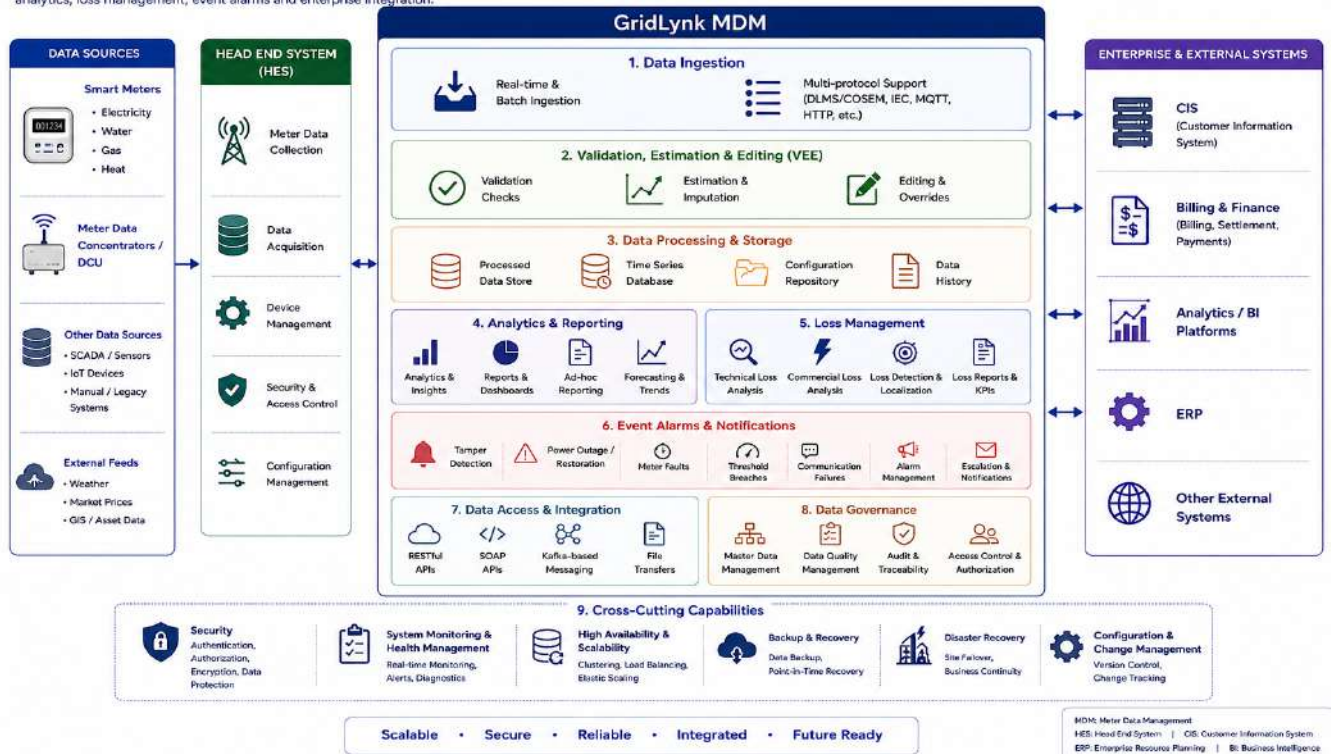
- High-availability architecture and automated backup
- Disaster recovery and business continuity support

User-Friendly Interface

- Intuitive browser-based user interface
- Configurable dashboards and role-based views
- Powerful search, filtering and data navigation

GridLink MDM Architecture

A scalable, secure and integrated platform for reliable meter data management, analytics, loss management, event alarms and enterprise integration.



GridLink MDM: Key Benefits for Utilities

Enhanced Data Accuracy

Ensure accurate, complete and reliable meter data through automated validation, estimation and editing, reducing billing errors and improving confidence in revenue-critical data.

Operational Efficiency

Automate high-volume meter data processing and routine workflows, reducing manual intervention, accelerating operations and allowing teams to focus on higher-value activities.

Advanced Analytics

Turn meter data into actionable intelligence with powerful analytics and reporting that reveal consumption trends, demand patterns and network behaviour to support better decision-making.

Loss Management

Identify and reduce revenue and energy losses by comparing energy flows across the distribution network, helping utilities locate anomalies, quantify losses and target technical and non-technical loss reduction initiatives.

Improved Customer Service

Provide timely and trusted consumption information to resolve billing enquiries faster, improve transparency and give customers greater insight into their energy usage.

Scalability and Flexibility

Grow confidently as meter populations and data volumes increase, with a flexible platform designed to accommodate new use cases, technologies and evolving utility requirements.

Demand Response and Load Management

Better understand when and where energy is being consumed to support demand response, peak-load management and more efficient utilisation of network capacity.

Robust Security

Protect critical metering and customer information with comprehensive access controls, secure data handling and full auditability across the meter data lifecycle.

Seamless Integration

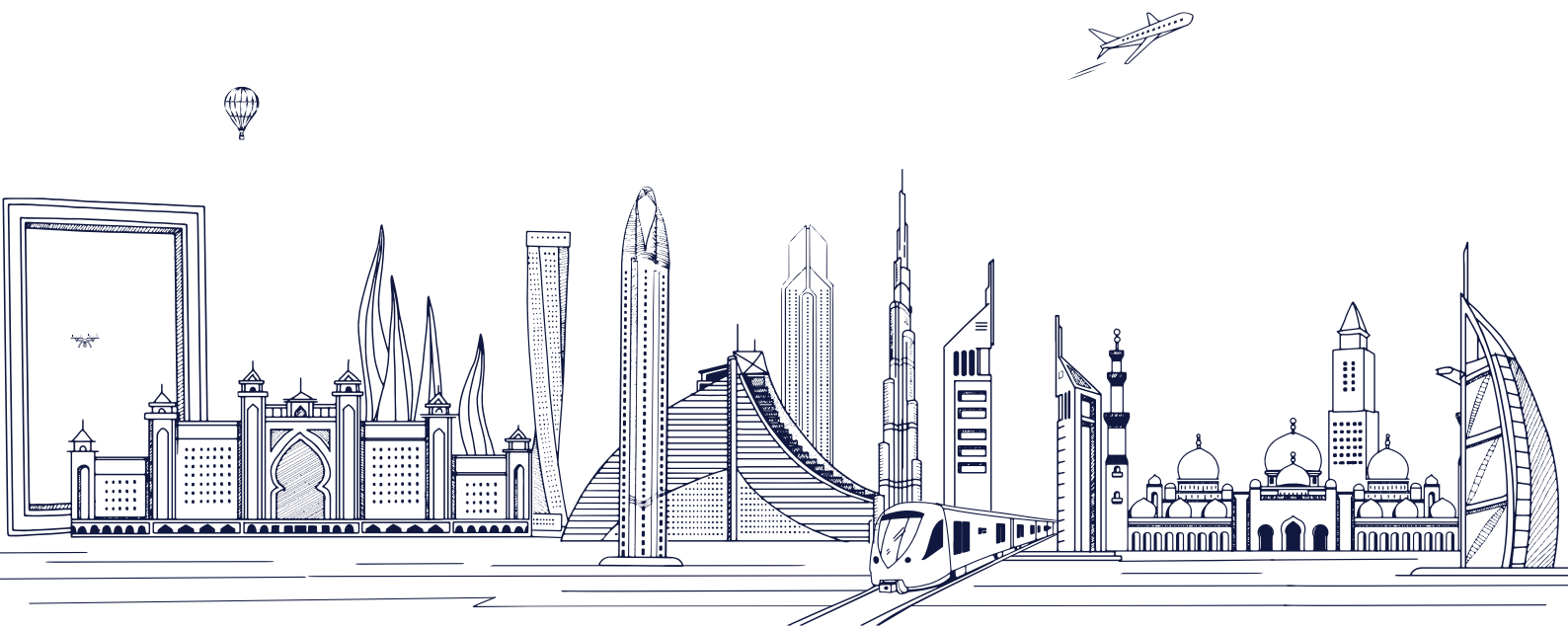
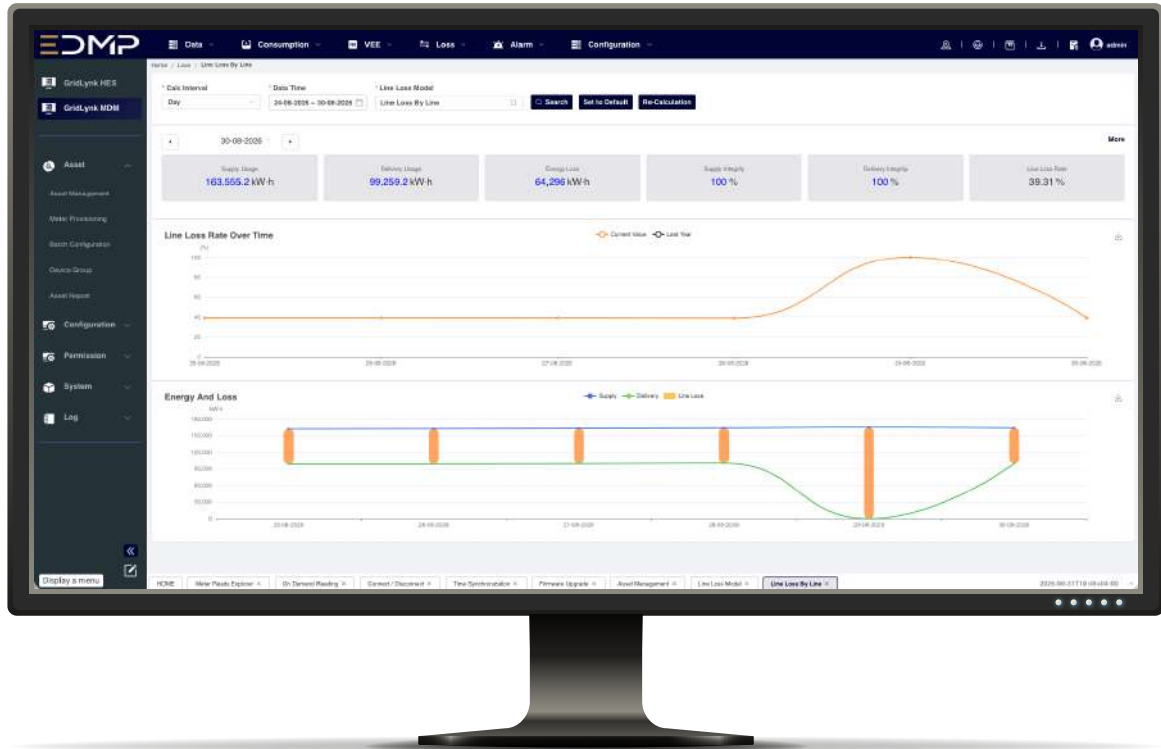
Connect meter data across the utility through open, standards-based interfaces, enabling smooth integration with HES, CIS, billing, ERP, analytics and other enterprise platforms.

Regulatory Compliance

Maintain complete, traceable and auditable meter data histories to simplify regulatory reporting, demonstrate compliance and support investigation of data changes.

Disaster Recovery and Backup

Protect valuable meter data and maintain business continuity through resilient architecture, comprehensive backup and disaster recovery capabilities.



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