Trilliant

DISCOVER THE *Power Of Choice*
for utilities & smart cities

Trilliant's **Analytics as a Service** empowers utilities worldwide to unlock data for deeper insights and enhanced decision-making

By leveraging advanced AI and machine learning, Analytics as a Service transforms raw data into actionable intelligence, enabling better forecasting, resource management, and outcome prediction. This platform expertly manages large volumes of information, generating value through greater automation, improved productivity, increased profitability, and reduced energy loss.

Cloud Computing

We operate under the Saas model supported by Amazon Web Services/Cloud Services to ensure scalability and high availability.

Interoperable

Our system exchanges information with numerous back-office systems, such as: HES, GIS, OMS, CIS, ERP, and SCADA, ADMS, Enterprise Portal through industry standards, such as Multispeak and CIM.

Analytics

Based on analytic algorithms supported by data received from multiple sources, the Analytics as a Service solution predicts the results of various processes, such as critical consumption, non-technical loss detection, forecasting, and more.

Multi-tenancy

Our multi-tenant architecture hosts the software in a single instance to enable use by multiple customers or organizations. Additionally, it supports single-tenant infrastructure for multi-tenant buildings.

Big Data

Trilliant has the appropriate architecture to upload, transform and process large volumes of data without the need for further investment in hardware and IT resources.

IT Security

Cybersecurity based on NIST SP 800-53, NIST CSF, FedRAMP, ISO27001 and ISO27034, SOX and FIPS 199 frameworks.

Analytics as a Service is a solution based on state-of-the-art Big Data and analytics technologies. Operating as a data scientist, Analytics as a Service exchanges data with other systems to facilitate the flow, analysis, and use of information into a single, cloud-independent platform to support intelligent decision-making.

Power Quality

Trilliant's Analytics as a Service solutions help improve customer experience by detecting anomalies in the power grid and quality of service, using advanced predictive analytics algorithms to identify the cause of disruptions.

Meter Data Collection Monitoring

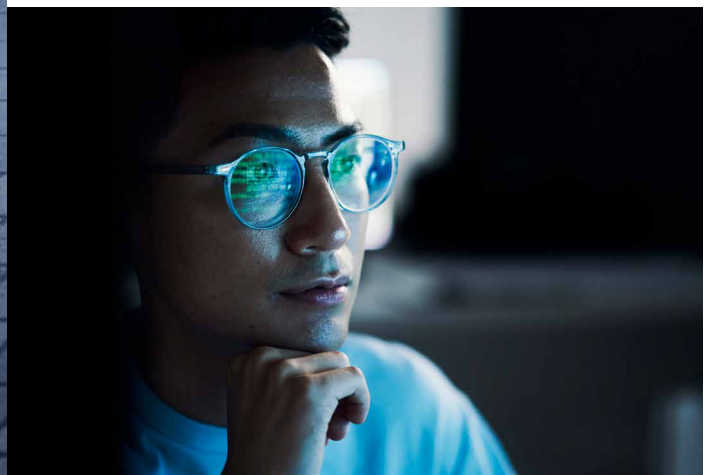
Analytics as a Service displays essential information on meter data collection through dashboards that perform querying indicators and statistics on device calls in order to calculate the efficiency of the communication tools used for device queries.

Reactive Energy Monitoring Service

Analytics as a Service supports the achievement of energy efficiency. The solution monitors the excess of reactive energy transport in your system to take corrective actions to reduce penalties and billing cost overruns.

Transformer Monitoring

Our soluiton monitors the current status of distribution transformers and identifies features such as load capacity levels and damage to equipment in order to optimize asset management processes. This provides valuable information and allows customers to make smart maintenance and replacement plans. It is a useful solution for traditional distribution systems and those considering the incorporation of distributed energy resources in the grid.



Trilliant's Power of Choice value proposition gives smart utilities and cities customers the flexibility to select the essential solutions they need to support their unique business goals.

ANALYTICS AS A SERVICE PLATFORM FUNCTIONALITY

External Systems Configuration	Exchange information to and from external systems
VEE (Validation, Editing, Estimation	Verify accuracy and completeness of device data and estimate readings with missing internal information using set rules. Readings can be labeled through quality codes (IEC 61968-9). Our solution supports validation, editing, and estimation rules to build data sets of higher value and use them in processes that require higher quality and completeness of the information
AMI System Management	Run connection and disconnection tasks, limit power, update firmware and schedule devices remotely and massively to leverage Advanced Metering Infrastructure and reduce costs of onsite tasks
Alarms and Notifications	Automatically detect and notify failures and events VIA smart devices or other elements of the advanced metering system through a robust alert and alarm configuration engine
Manage Permissions Through ABAC Model	The ABAC Model (Attribute- Based Access Control) supports particular authorization rules on application modules
Notifications	Receive notifications with the diagnosis of actions performed in the system to keep you informed
Energy Consumption Web Portal	Publish load profiles, registers, events and power quality readings to external customers
Total Consumption Report	Export reports in various formats (PDF, Excel, CSV, JSON) adjusted to your needs. The supported reports are total monthly consumption, quality codes, monthly anomalies in readings, changes in devices, monthly demands at peak hours, and more
Reading Versioning	Versioning allows saving different measures of the same reading to query the modifications on each reading interval that is being recorded
Query Dashboards	Interact with dashboards to navigate optimally between large data segments in order to have good visibility of information
Audit	Audit all actions performed on any entity, service point, device, variable, or reading managed in your system

Questions, comments: info@trilliant.com