

DISCOVER THE *Power Of Choice*



ANALYTICS & DATA SERVICES

Trilliant's Analytics & Data Services is a solution based on state-of-the-art Big Data and analytics technologies, which integrates the collection, validation and analysis of data into a single platform in order to optimize decision-making.

Analytics & Data Services operates as an MDM and exchanges data with other systems to facilitate the flow, analysis, and use of information to generate value for stakeholders. This platform is designed with the appropriate architecture to manage large volumes of data and operates as SaaS (Software as a Service) on the AWS cloud.

Main features

01

Cloud Computing

We operate under the SaaS model supported by Amazon cloud services to ensure scalability and high availability.

02

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.

03

Analytics

Based on analytic algorithms supported by data received from multiple sources, the solution predicts the results of various processes such as critical consumption and more.

04

Multitenancy

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



05

Big Data

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

06

Dynamic

The solution adapts to the markets' needs since it evolves to adjust to changes in the industry.

07

IT Security

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



INTEROPERABILITY

Customizations



CYBER SECURITY

Analytics for Multiple Purposes

Some of our analytical models to boost your data

POWER QUALITY

We improve our customers' experience by detecting anomalies in the power grid and quality of service using advanced predictive analytics algorithms to identify the cause of the disruption.



REACTIVE ENERGY MONITORING SERVICE

We support the achievement of energy efficiency

We monitor the excess of reactive energy transport in your system to take corrective actions to reduce penalties and billing cost overruns.



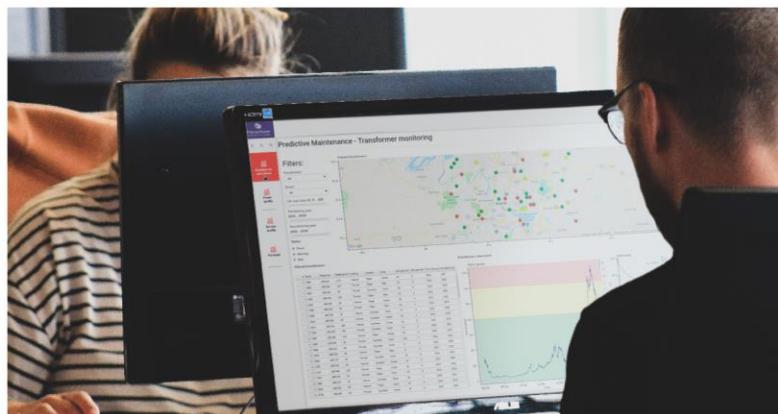
METER DATA COLLECTION MONITORING

We display 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.



TRANSFORMER MONITORING

Our solution 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.



Platform Functionalities

01

EXTERNAL SYSTEMS CONFIGURATION

Exchange information to and from external systems.

02

VEE (VALIDATION, EDITING, AND ESTIMA-

Verify accuracy and completeness of device data and estimate readings with missing interval information using set rules. Moreover, 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.

03

AMI SYSTEM MANAGEMENT

Run connection and disconnection tasks, limit power, update firmware, and schedule devices remotely and massively to leverage the advanced metering infrastructure and reduce costs of on-site tasks.

04

ALARMS AND NOTIFICATIONS

Automatically detect and notify failures and events in smart devices or other elements of the advanced metering system through a robust alert and alarm configuration engine.

05

MANAGE PERMISSIONS THROUGH ABAC MODEL

The ABAC (Attribute-Based Access Control) model supports particular authorization rules on application modules.

06

NOTIFICATIONS

Receive notifications with the diagnosis of actions performed in the system to keep you informed.

07

ENERGY CONSUMPTION WEB PORTAL

Publish load profiles, registers, events, and power quality readings to external customers.

08

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.

09

READING VERSIONING

Versioning allows saving different measures of the same reading to query the modifications on each reading interval that is being recorded.

10

QUERY DASHBOARDS

Interact with dashboards to navigate optimally between large data segments in order to have good visibility of information.

11

AUDIT

Audit all actions performed on any entity, service point, device, variable, or reading managed in your system.

CONTACT US



Global Headquarters
401 Harrison Blvd.
Suite 300
Cary, NC 27513



+1 919 459 6111



martha.cabrera@trilliant.com

Visit us at www.trilliant.com

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