iSPEED
INDUSTRIAL IOT PLATFORM

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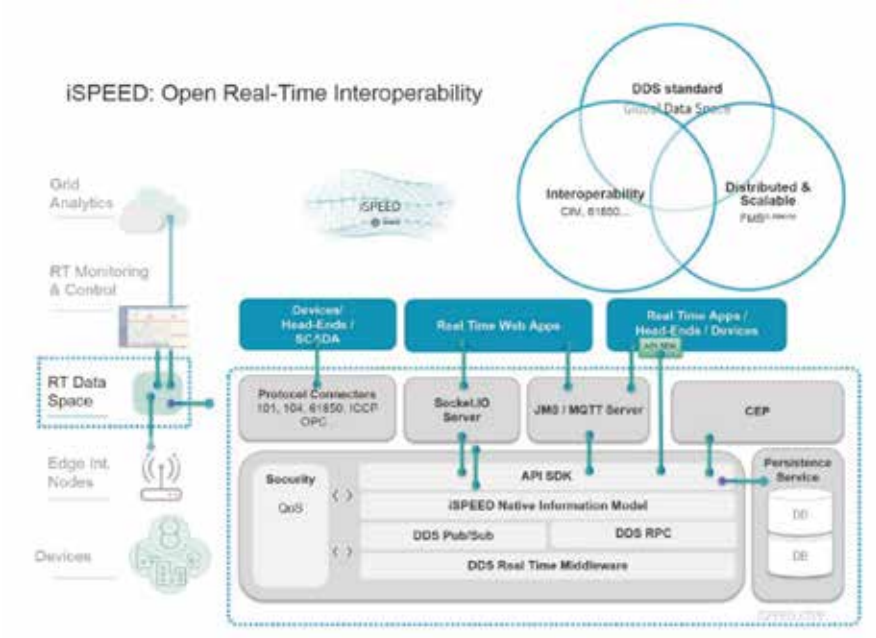
HIGH PERFORMANCE DISTRIBUTED PLATFORM FOR REAL-TIME DATA EXCHANGE

iSPEED is a real time integrated data acquisition and processing platform, with the ability to handle large volume of data from the grid nodes in a secured, distributed and loosely-coupled manner. It is capable of managing millions of tags per second and integrating all kind of devices and systems in a common infrastructure.

- Increasing productivity and efficiency in the management of information produced by various monitoring and control applications.
- Efficient execution of processes, reducing the chances of error in data manipulation.
- Quick and reliable exchange of information while ensuring the update of the latest data.
- Performing both centralized and distributed data processing, for large volumes of data.



Features

Real Time Middleware based on the Data Distribution Service (DDS) standard from the Open Management Group (OMG).

Connector Adapters for WebSockets and most readily used Message Broker systems such as JMS, MQTT and Apache Kafka.

Routing service enhancing network interoperability in broad and heterogeneous WAN.

Integrated Information Model guaranteeing data interoperability (based on CIM and IEC 61850 standards, among others).

Security, ensuring the performance and safety requirements of Industrial IoT environments. Introduces a robust set of security capabilities such as authentication, encryption, access control and logging.

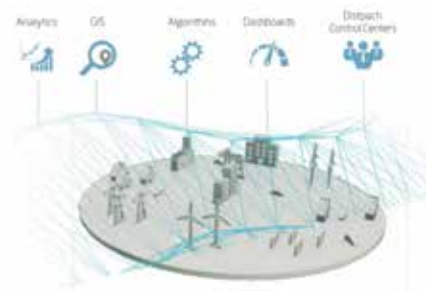
Edge Computing: integration with Complex Event Processing (CEP) engines allowing the business intelligence to be distributed in different grid layers, including low-level nodes at the grid edge.

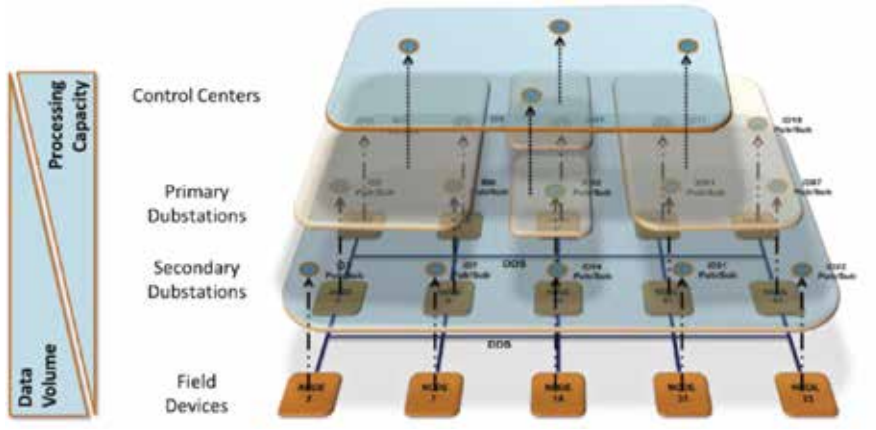
Quality of Service such as reliability, availability, liveliness, etc. for efficient data delivery according to the needs and requirements of all stakeholders involved.

Protocol Connectors for field devices, SCADA, control systems (Modbus, IEC 104, ICCP, OPC ...).

Benefits

- Availability of critical information in Real Time.
- Readiness for Closed Loop Mission Control ecosystems with extreme performance requirements.
- Seamless integration of new systems and services into existing ecosystems.
- Available for multiple architectures and programming languages.
- Response-time reduction of control systems and applications in real time enviroments.
- Data homogenity. Enables systems interoperability.
- Data exchange bottleneck reductions among heterogeneus applications.
- Oriented to the distribution of intelligence among nodes located at different grid levels.





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