

REAL-TIME IOT CLOUD SOLUTION FOR THE WORLD'S LEADING CONSTRUCTION AND MINING MANUFACTURER

NEED:

The client was facing challenges in collecting, processing, and managing data collected from more than 2 million CAT and Non-CAT assets. iSmile technologies implemented cutting-edge cloud base, Real-time IoT enabled platform for creating value out of data.

SOLUTION:

- Worked on incubating Development, DevOps, SRE teams.
- Worked on performing PoC and implementation of production scale solution that includes device provisioning remotely, runtime management, and certificate management.
- Worked on Lead strategy, architecture, implementation of Data Ingestion of the real-time, batch, and one-time using Gateways, Azure Event Hubs, Azure Topics, etc. including Processing (Data Parser) using storm topologies (Azure HDInsight's) for 7 92,000 data points per second.
- Implemented Data Persistence, Data Segmentation on Redis Cache, Hbase (phoenix/opened), Azure SQL & Azure Data Lake.
- Worked on architecture and development of both a real-time (hot path), cold path alerting engine for pro-actively getting data such as health data, and using predictive analytics (artificial intelligence) to increase productivity by preventive maintenance, notifying dealers for repairs, etc.

OUTCOME:

The cloud solution provided by iSmile Technologies helped the client come up with high availability disaster recovery strategies for meeting SLA's in the cloud. It also enhanced the productivity of the sales data through APIs (Developer Portal), Rules Engines, Fire Hose to other third parties in different mediums.

The client was the world's leading construction and mining equipment manufacturer, diesel and natural gas engines, industrial gas turbines, and diesel-electric locomotives. Clients rely on their products to advance sustainable progress and improve living standards.

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