omega

By Kagool

Microsoft Solutions Partner
Data & AI
Azure

Specialist
Data Warehouse Migration
Analytics

databricks

MuleSoft Partner

ORACLE
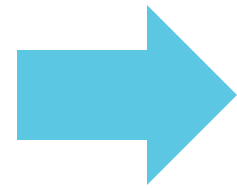Gold Partner

salesforce

SAP Partner

@TeamKagool

Vehicle Dev Ops

Need for perfection in every lap, every mile, every drive.

- **Record data with loggers**

- **Decode data with Omega**

- **Tune performance with insights**

- **Continuous improvement**

omega
By kagool

By kagool

Drive, Decode, Decide

Decode proprietary data formats from data loggers to analytics for insights in minutes.

Omega is a containerised solution, ready to be deployed for decoding proprietary formats using Azure Batch to enable insights for continuous improvement in vehicle performance.

Data Analytics for Automotive test fleets ver. 2.0

In today's fast-paced automotive industry, time is of the essence, and data-driven decisions are critical.

The ability to decode proprietary data from vehicles to understand insights and refining parameters for better performance can be time consuming and requires data engineering expertise.

Our solution makes this easy and fast. Our solution comes ready with MDF to Parquet decoder, but you are welcome to plug and play your own decoders into our framework with configuration. Harness scalability of cloud computing to decode data and analyse it in minutes.

We understand the sensitive nature of R&D data for the automotive sector and understand that context for the test drive may reside outside of vehicle data loggers. Our solution offers configurable data points to capture context, e.g. track temperature, driver, weather and associate the data points with vehicle data.

Our solution uploads and processes files in a secure manner and offers file management solution with out of the box audit and security for every file processed. Let go of manual handling of files that are prone to security compromise.

With the flexibility to configure Virtual Machines based on input file size or decoder types, you're in control, ensuring processing and speedy insights over high volume time series datasets are done in a cost- efficient manner.

Our solution allows automotive engineers to not only decodes massive files and analyse time series data, but also provides computing power for historical analysis at scale for records with decoded files using Azure Data Explorer.

Our solution is powered by Azure components, accelerates the decoding of large input files for analytics, revolutionizing the way automotive OEMs process diagnostic data. This not only shortens continuous improvement lifecycles but also fosters collaboration between OEMs and suppliers.
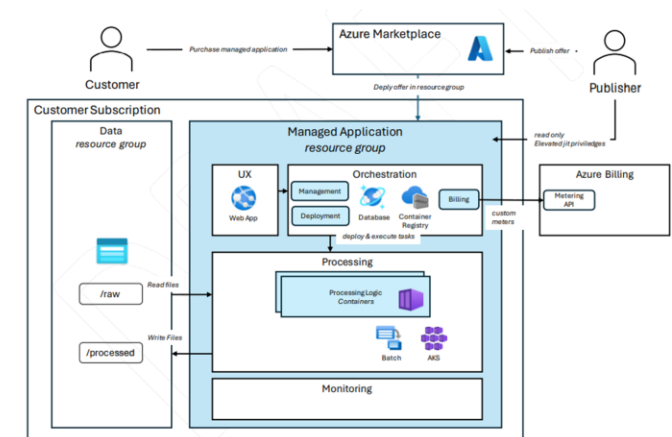
Functions

SECURE FILE MANAGEMENT

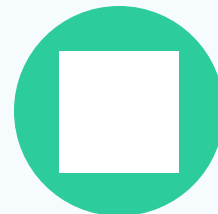DUPLICATE FILE HANDLING (REMOVED?)

PROGRESS MONITORING

AUDIT

SCALABLE COMPUTE

AUGMENT CONTEXT

ANALYTICS

Features

- Bulk or individual file processing

- Bring your own Decoders

- Performance (Analyse Petabytes of data in seconds)

- Built-In cost monitoring

- Ability to choose High performance compute on demand

- Seamless integration with Organisational Identities (Entra ID)

- Alerting mechanisms for failures

- Optimized file format for storing large volumes of data for analytics (parquet)

- Templates to Tailor Analytics

- Advanced Time Series Insights on high volumes of historical data including anomaly detection, forecasting and pattern detection