aicas Edge Data Gateway

Unlock the Value of Embedded Device and Vehicle Data

Gain Valuable Insights. Get Relevant Edge Data When and Where it is Needed.

The amount of data gathered by embedded devices and vehicles is already huge and keeps growing with the number of sensors. There is enormous potential for identifying cost reductions as well as revenue growth and data monetization opportunities. Provided you are able to select the relevant data for your specific use case.

The aicas Edge Data Gateway (EDG) delivers the right data to the right place at the right time. Even in realtime.

Collect, Select, Visualize Edge Data in Your Customized Dashboard

aicas' data management portal EDG provides direct, unified, and cross-application access to data from edge systems. Supporting many different communication protocols, it is scalable across heterogeneous fleets of devices and target systems. Custom dashboards can be configured for data visualization and live data monitoring. Its flow editor allows data to be filtered, aggregated, and routed to third-party applications.

Boost Your Entire Business With the Power of Data

COMPLEXITY REDUCTION By providing a single, standardized application	**SCALABILITY** Across heterogeneous systems	**EASY ADAPTION TO YOUR BUSINESS** Through role-based access
COST SAVINGS By selecting the relevant data	**EASY TO USE** Without programming skills	**ENABLING RAPID OPTIMIZATION** Through insights in realtime
BETTER DECISIONS Based on valuable data insights	**SIMPLE DATA INTERPRETATION** Through data visualization and live data monitoring	

Use Case Example: Automotive Data Dashboard for Live Monitoring

For a large OEM, we developed a custom dashboard that integrates, selects, analyzes, and visualizes insights from incoming live data streams. The solution provides seamless access to realtime vehicle system data, e.g., vehicle diagnostics, sensor readings, GPS locations. The dashboard allows live monitoring of speed, position, battery status, vehicle fault indications, fuel consumption, distance traveled, and more to instantly improve operational efficiency, safety, and performance. The solution doesn't require any programming skills thanks to over 100 configurable graphical widgets.

Key Features

No Code Editor

The No Code Editor inside EDG allows users without programming knowledge to route, process, filter, and aggregate data. The editor comes with a large number of pre-built data operation nodes but can also be extended by custom-coded new elements.

Data Processing

EDG chains logical blocks that aggregate or filter incoming data. This makes it really easy to select, sort, and filter data. As a result, you have access to exactly the selection of data you need. Based on this valuable information, you can support your data-driven business and application models.
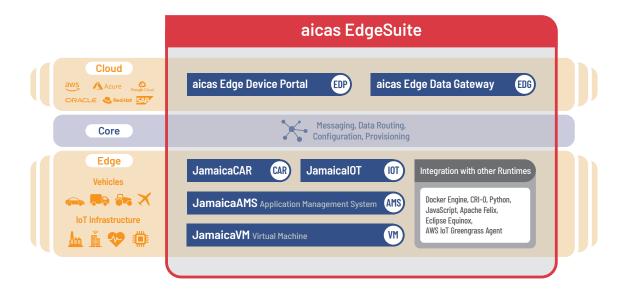
Data Routing

Once the data is transferred to the cloud, you often need to pass it on to other systems or third-party applications. With EDG, this can be done through an easy-to-use graphical editor without needing to write a single line of code.

Data Visualization

Designing dashboards to visualize data can be done without any technical background. It is just a matter of dragging UI elements into the editor and selecting the data source. No programming skills are required to quickly create powerful dashboards.

The Solution Within the aicas Ecosystem

EDG supports third-party runtimes and solutions, but its value is greatest when it collects and seamlessly integrates data from aicas' edge runtime systems. EDG works with JamaicaAMS, the modular application management system, JamaicaVM, the Java software development kit and runtime, as well as its automotive services, JamaicaCAR, and its industrial services, JamaicaIOT.

Within this ecosystem, EDG enables data discovery from new data sources and rapid prototyping with direct insight into edge device data.