

aicas. Embedded. Connected.

Simplifying the Vehicle to Cloud (V2C) Journey...



aicas' Growth Story.

























aicas Automotive Focus.



Platformization

1

Unification of In-Vehicle Software Platforms

CPUs

- ARM, RISC-V, X86
- ESP32s, ST Micron, etc.

(RT)OS

- Linux (AGL, Yocto, etc.)
- QNX, VxWorks, Android
- PikeOS, FreeRTOS

Works with other runtimes

- Docker
- o POCO
- Hypervisor
- OpenJDK, etc.

OTA

2

From Micro Updates to Full Updates for MCUs and ECUs

- Secure, industry standard
- Automatic success / failure detection
- Covering
 - IVI (Infotainment)
 - Headunits
 - Telematics
 - Domain Controller
 - ECUs
 - MCUs

V2C / V2V / V2X

3

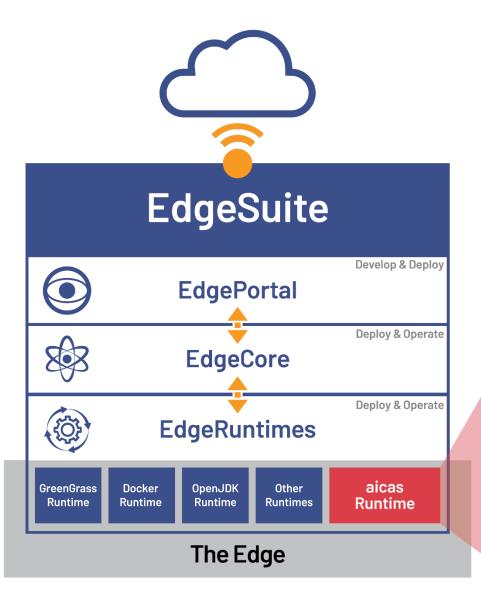
Data and Software Lifecycle Management

- Full lifecycle
- V2C reference architecture for Automotive Grade Linux (AGL)
- Low Latency V2X
- CI/CD, DevOps for data and logic
- Multi cloud support (incl. cloud migration on vehicles)
- Security
- Data pipeline management from SW developers to business analysts & data managers

aicas EdgeSuite

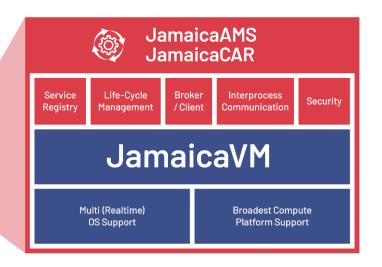
easily create, deploy, and operate cloud to edge solutions





aicas EdgeSuite reduces complexity.

- It enables to manage a single device or even large fleets of devices via one system.
- It reduces risks due to the variety of supported heterogeneous environments, platforms, standards, protocols, and operating systems.
- It offers flexibility by supporting different runtimes.



EdgeSuite on AGL **TCU** Reference Design **MQTT** edge device: raspi 4 aicas runtime **JamaicaEDP JamaicaEDG** Conn. **EDP** Data CAN Publisher Manager agent **Translator** Vehicles A Vehicles B Services Layer JamaicaCAR **OS:** AGL 12.0.0 (lamprey)

Live Demo aicas



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Get in touch with us to learn more about our products!

Johannes Biermann
President
aicas GmbH
Emmy-Noether-Str. 9
76131 Karlsruhe, Germany

Phone: +49 721 663 968 0

Email: info@aicas.com

Web: https://www.aicas.com

Thank you for your Attention