BGSW
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BOSCH

Connected Mobility Solutions

“Connected For Brighter Future”



Discover our Connected Mobility Solution (CMS), a comprehensive and customizable suite of solutions designed to meet your specific needs. From on-board units to off-board connected solutions, we are here to accelerate your digital transformation in the mobility industry.

Vision

Connected for Brighter Future

Presence

1Mio+ vehicles connected across the globe

Connected Mobility Solutions (CMS)

Passenger Car, Commercial Vehicle, Off-Highway, 2-Wheeler

Segment

End to End Connected Mobility Solutions

Offerings



Device and Device Software

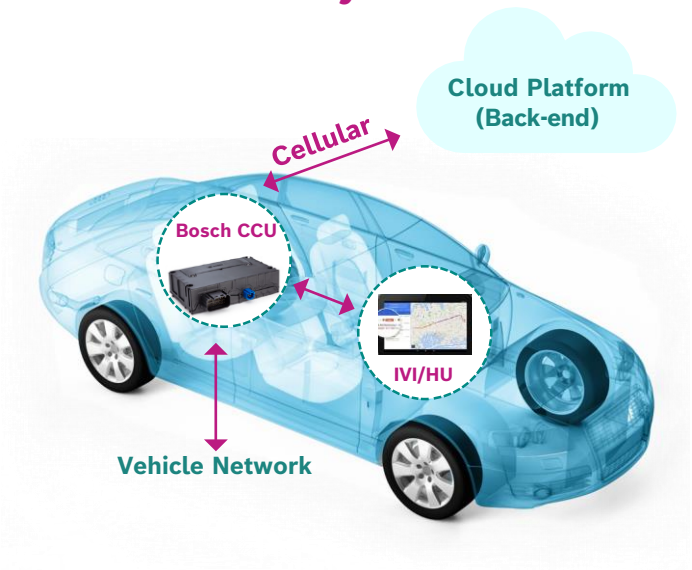
- Modular Architecture to support evolving needs.
- Containerized architecture based on OSS to support third-party integrations.
- AUTOSAR compliant middleware stack for seamless vehicle integration.
- FOTA master with best-in-class security, scalability and flexibility.
- Software infrastructure to host emergency services such as e-Call, b-Call and i-Call.
- Network inter-operability under low and no network scenarios





Description	Gen 2E	Gen 2A	Gen 3S
Mobile Network	4G CAT 4	4G CAT 1/ CAT 4	5G + CV2X
Wi-Fi / BT	●/●	●/●	●/●
CAN/USB/ETH/RS232	X2/●/●/●	X2/●/●/●	X2/●/●/●
Architecture	Centralized	Decentralized	Centralized
Domain Separation	●	●	●
Additional Memory	●	●	●
Presence of eCall / bCall	●	○	●
Accelerometer + Gyroscope sensor	●	●	●
Internal / Back-up battery	●	○	●
Ingress Protection	IP52 / IP66	IP52 / IP6K9K	IP30 / IP52
Operating System	Linux + AUTOSAR	Linux + Autosar	Linux + Autosar
SW stack	SDK + Container	Container	Container
Features	Self and Remote FOTA, Remote access & Diagnostics, Safety and Security, Track & Trace, Alert & Events, Fleet Management, Comfort & Convenience	eHorizon / Look Ahead, Edge Computing, Data logger **+ Gen2E features**	Premium FOTA, C-V2X use cases, Edge analytics, High bandwidth use cases, etc. **+ Gen2A features**
Application	**Entry / Mid level CCU for PV, CV and OHW segments**	**First On-Engine TCU for CV applications**	**CCU / OBU for C-V2X applications in all vehicle segments**
Target Market	Global	Global	Global

End to End Eco-system



Mobile App | **Web Portal** | **Smart Devies**



BGSW is integrating its Connectivity Solutions across different vehicle segments, hardware architecture and regions

Location Based

Remote & Notification

Smart & Personalized

Connected Apps

Fleet Management

Prognosis

Data Analytics

Safety

Over-the-air Updates

User Engagement

Navigation

Vehicle Status

Cloud Solutions

- Automotive domain expertise in developing connectivity solutions worldwide.
- A hardware-independent platform that accelerates time to market. Deployable on AWS and Azure, aligning with their respective compliance frameworks and best practices.
- Over 250+ connectivity features across all vehicle segments including shared mobility.
- AI / ML powered vehicle diagnostics.
- Scalable and modular technology stack based on micro services and site reliability engineering (SRE), highly efficient DevOps of services in parallel.
- Overall Orchestration with ecosystem partners.
- Hardware Providers
- 3rd party content partners
- Solution framework on AAOS to deploy connected Apps
- Smart device integration
- Integration with Software technology partners
- Managed service operations for hassle free support and maintenance.
- Strong focus on interoperability and integration based on alliances, regulations, and standards such as ISO, CNCF, COVESA...

Value Based Approach - We offer more than technology

Domain know-how across mobility stack and technologies from single source

Comprehensive proven portfolio with long term roadmap including 5G TCU

Continuous enhancement of connectivity features, including C-V2X and future technologies

State-of-Art security compliance with UNECE R155 / R156, ISO/ SAE 21434 and AIS 189/190

A dependable partner throughout the development, launch, and maintenance phases.

Global footprint with solution across vehicle segments (ICE & EV); PV, CV, OHW, 2WP, etc.,



Who are we? About BGSW

Bosch Global Software Technologies Private Limited (BGSW) is a 100% owned subsidiary of Robert Bosch GmbH. We are one of the world's leading global suppliers of technology and services, offering end-to-end Engineering, IT, and Business Solutions.

With a global footprint and presence in US, Europe, Japan, China, and the Asia Pacific region, we are at the forefront of designing, developing, and executing IoT ecosystems through our all-encompassing capability within the 3 aspects of IoT – Sensors, Software, and Services.

Get in touch!

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Further Information

Scan here