

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.





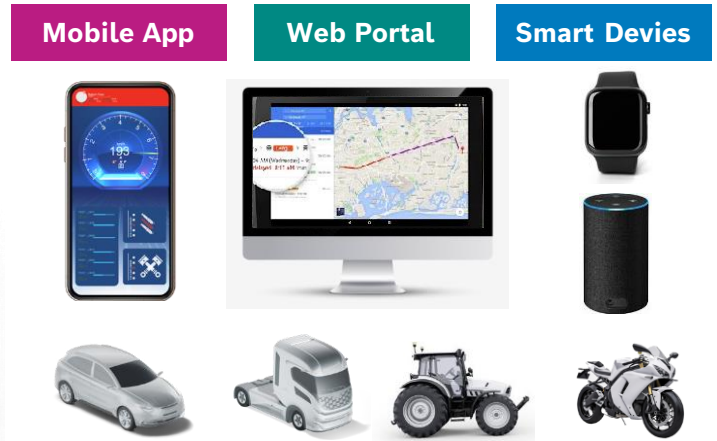
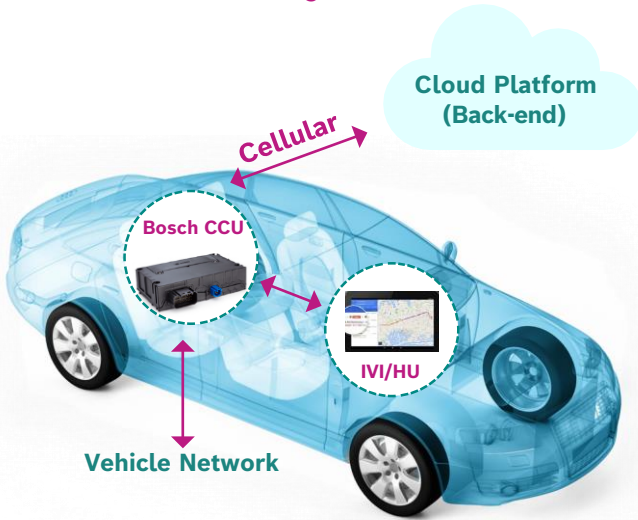
Device and Device Software

- 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



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



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!

✉ ConnectedMobilitySolutions@bcn.bosch.com

Further Information



Scan here