



News

QuEST Global to Unveil FOTA Blueprint Solution for the Automotive Industry at CES 2019

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QuEST Global to Unveil FOTA Blueprint Solution for the Automotive Industry at CES 2019 (<https://www.quest-global.com/news/quest-global-unveil-fota-blueprint-solution-automotive-industry-ces-2019/>)

- *Secure and Adaptive FOTA Solution to Reduce Downtime for vehicle ECUs*
- *Enhances Safety, Operational Efficiencies and Customer Experience*

Las Vegas, NV, January 03 2019: QuEST Global, the pioneering engineering services provider, will showcase a highly secure **Firmware-Over-The-Air** (FOTA) blueprint solution at Consumer Electronics Show (CES) 2019. Built with **Adaptive Delta technology**, the FOTA blueprint solution enables real-time management and updating of automotive firmware. It can be seamlessly customized for any vehicle that needs periodic software upgrade in the digitally connected ecosystem or even otherwise. The solution, developed by Mobiliya, a QuEST Global company, enables two way connectivity between multiple Electronic Control Units (ECUs) and Cloud through the device gateway to allow fleet managers schedule maintenance, reduce downtimes, and in turn, increase efficiency.

The delta update downloads only the differences between a new version of software and its prior version, thus reducing the amount of data (small size binary delta) transmitted. The full new version of the software is then reconstructed locally. For millions of vehicles that need regular software updates, delivering such delta updates is an effective mechanism to reduce airtime requirements, and cloud and transmission costs.

The solution is highly flexible and can be quickly and effortlessly integrated with the existing ECU infrastructure of various OEMs and Tier-1s. By analysing large volumes of data generated by the ECUs of vehicles, it can enhance operational efficiencies and user experience manifold.

Other salient features of this solution are:

- Fault-tolerant architecture
- Generation of smallest possible delta
- In-place update for faster performance
- Adaptability to various ECU characteristics
- Analytics and reporting for the real-time vehicle status
- Improved performance of software upgrades regardless of ECU specification

Krish Kupathil, Head – Digital and Hi-Tech, QuEST Global, said, "With the recent developments in the connected vehicle ecosystem, automobiles have become increasingly complex. These vehicles require regular updates with new features and versions throughout their lifespan. Currently, the upgrade process is tedious with a lot of manual intervention involved. This disruptive and innovative FOTA blueprint solution not only ensures faster time-to-market for OEMs through the quick and efficient deployment of value-added services, but also reduces software upgrade cost significantly."

About Mobiliya, a QuEST Global company

Mobiliya (www.mobiliya.com) (<http://www.mobiliya.com>) is a global design-led software engineering services company enabling digital transformation for the world's leading organizations through disruptive technologies. The company specializes in next-gen technology consulting, system integration, solution development, deployment and security. Mobiliya leads digital transformation through advanced technologies like Artificial Intelligence, Deep Learning, Robotics, Blockchain, Augmented Reality and Internet-of-Things. Headquartered in Dallas, USA, Mobiliya was founded in 2011 and it was acquired by QuEST Global in 2018.

About QuEST Global

QuEST Global (www.quest-global.com) is a trusted engineering services and solutions partner to many of the world's most recognized Fortune 500 brands in aero engines, aerospace & defense, automotive, medical devices, oil & gas, power, hi-tech, industrial and rail with more than 10,300 associates. For more than 20 years, QuEST has been a trusted partner providing comprehensive support across the complete engineering lifecycle to help our customers improve efficiency, increase quality, create new products and open new markets. Through a collaborative and customized approach, QuEST enables its customers to manage traditional engineering requirements as well as the convergence of digital and mechanical technology to help them create safe, dependable and high quality products and services.

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