



Secure SOTA/FOTA Management for Automotive

Turnkey Solution for Secure Update Management OTA

Today's automobiles have an increasing number of electronic control units (ECU), which are interconnected via vehicle networks (e.g. CAN, MOST). Moreover, software in cars is going to grow in both amount and complexity. That is why it is essential for car manufacturers to manage the software during the entire life cycle of the vehicle efficiently and above all – securely. Here automobile manufacturers are increasingly opting for remote, Over-The-Air (OTA) update technologies. Urgent software fixes, feature upgrades and security patches can be deployed conveniently, efficiently, and cost effectively. In most cases, OTA updates will eliminate software recalls and associated warranty costs, preserving the OEM's brand image and improving customer satisfaction.

Strong Partnership

To ensure the adoption of OTA management by vehicle manufacturers and drivers alike, a production-grade solution must combine update reliability and efficiency with the strictest safety and security standards. This is exactly what can be expected from the collaboration and combined offering from ESCRYPT, the industry leader for embedded security, specializing in automotive security, with leading experts and companies in the field of SOTA/FOTA management technologies.

ESCRYPT

Provides production grade security components to secure data transmitted to/from the vehicle:

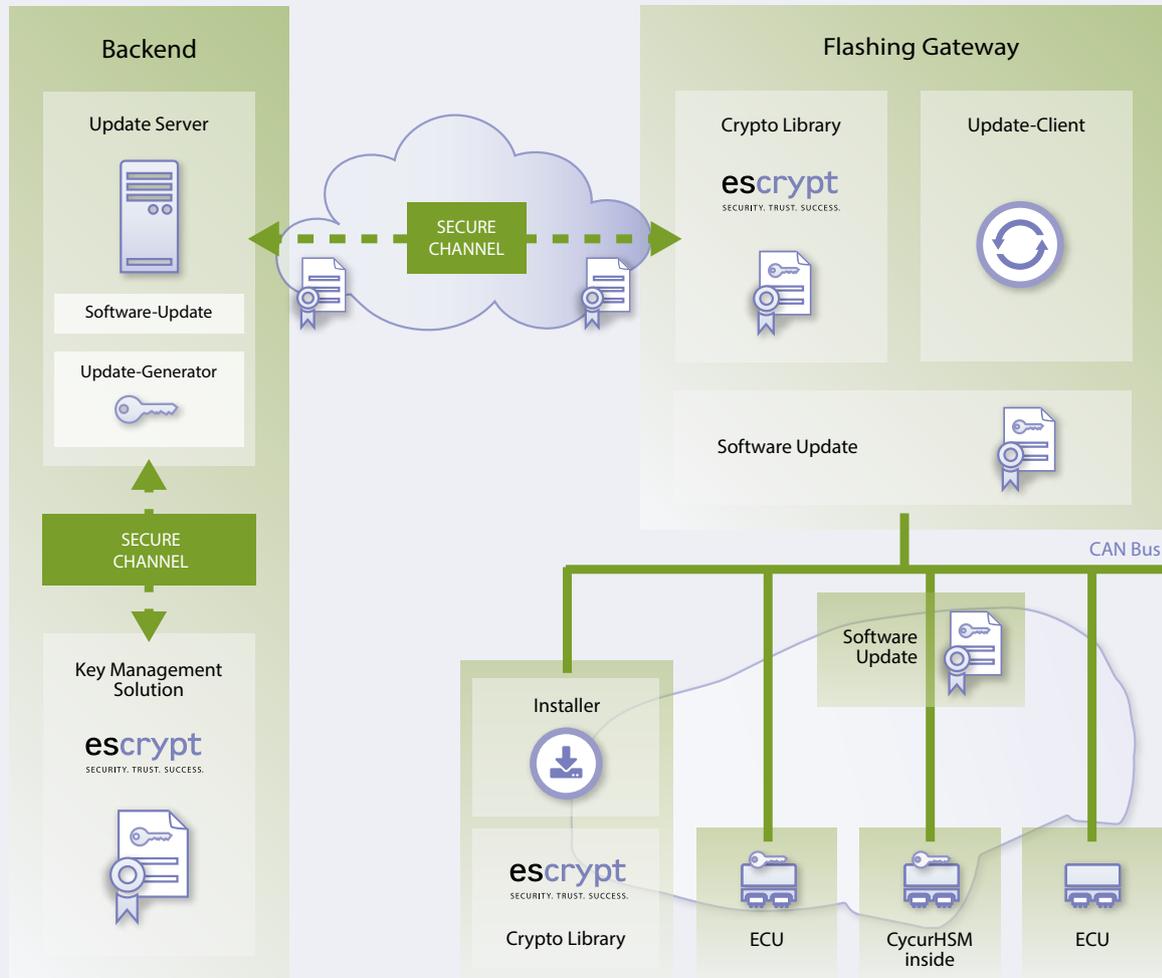
- End-to-end and embedded security
- Managing all the certificates and keys for ECUs and secure OTA communication
- Generating signatures before or during upload to software management backend servers and validating authorizations
- Complies with the safety rules and policies of the vehicle OEM

End-to-end SOTA/FOTA Management

ESCRYPT partners with worldwide technologically leading companies that provide components for end-to-end software, firmware, and data management:

- Robust backend infrastructure enabling OEMs to manage the creation, distribution and tracking of updates
- Proprietary Differential Tool: industry benchmarked to afford the smallest memory footprint and quickest patch time,
- OS agnostic, low memory footprint client for the download and installation of updates to ECUs

Enabling Efficient and Secure OTA Updates



Value Added Benefits

- Deploys software updates efficiently and cost effectively, eliminating recalls and associated warranty costs
- Protects updates and data uploaded to backend servers and transmitted to/from the vehicle
- Increases update reaction times, and broadens update coverage especially for critical recalls or security patches
- Ensures the adoption of OTA management by vehicle manufacturers and drivers alike, by delivering a secure, production-grade OTA solution
- Delivers a robust OTA offering integrated with a tested and proven embedded security solution tailored to the needs of the automotive industry
- Fully auditable and reliable logs of all software update activity to ensure reliable evidence for manufacturer and car owner