



KPIT

Comprehensive OTA Software Update Solution for Automotive Applications

5+ MILLION VEHICLES
successfully implemented
with OTA solution

100,000+ UPDATE CYCLES
proven for a single vehicle



Production-ready OTA Software Update Solution

Over the Air Software updates are becoming mission critical for new age vehicles with highly embedded driving technologies. The ever-evolving needs of end consumers like information on traffic congestion, points of interest, weather conditions, locations of EV charging stations, etc. demands secure update of software patches remotely. At the same time, OEMs need to mitigate software recall expenses, respond faster to cybersecurity issues, maintain post-sale vehicle performance and feature enhancements, improve operational efficiencies and increase customer convenience.

Robust, secure and efficient 'Comprehensive Vehicle Level OTA Update Solution' can address these OEM needs.

With 20+ years of domain expertise in automotive software engineering and understanding of vehicle software architecture, KPIT brings production proven vehicle level **OTA software solution for Connected, Clean and Autonomous vehicles**. With deep understanding of Software Integration and End-to-End automated validation, KPIT has expertise to securely provide full vehicle software updates **Over the Air by managing in-vehicle software components, backend services, variants and software version dependencies**.



Solution Features

01

Uptane compliant secure integration of OTA backend platform with OEM cloud

02

Future ready common components for various OTA update use cases

03

Configuration management for vehicle models and software version dependencies

04

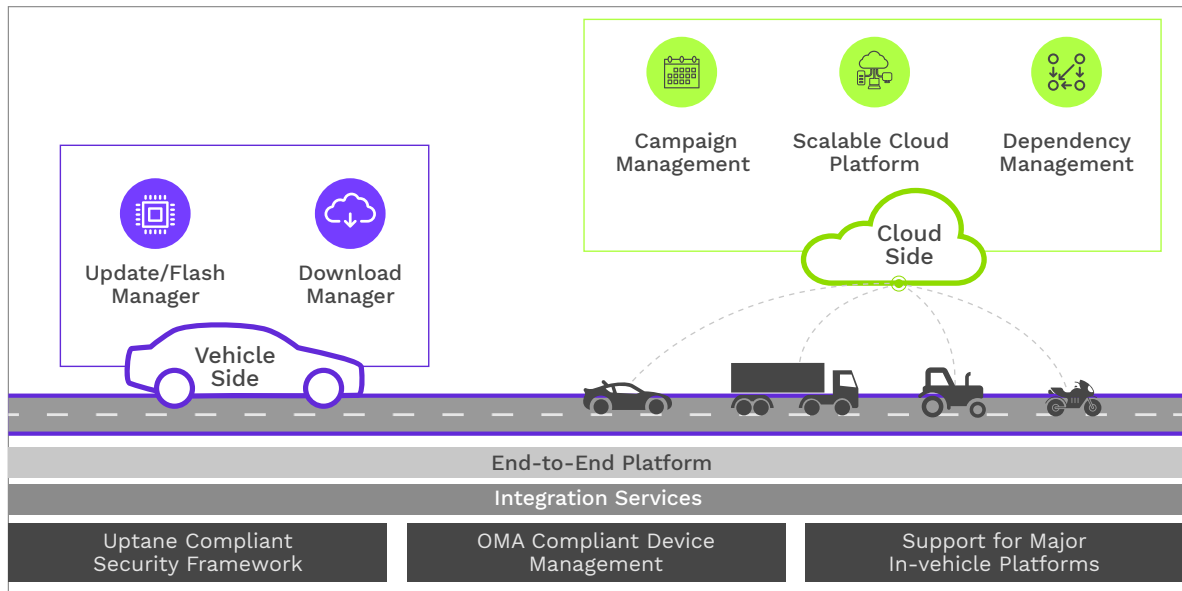
Efficient 'In-place' as well as 'A/B' software updates

05

Campaign management platform aligned with existing OEMs processes and policies



Components and Services



Business Benefits

- Future ready End-to-End solution for full vehicle level software updates
- Ready components that can be rapidly adopted resulting into reduction in development time and cost
- Global presence to provide integration services across development lifecycle
- Ability to integrate the solutions from partners as well as with KPIT's own Platform

Vehicle Level Features Supported

- Domain Controller
- Digital Cockpit Controller
- Infotainment
- Telematics
- Diagnostics

Key Attributes Covered

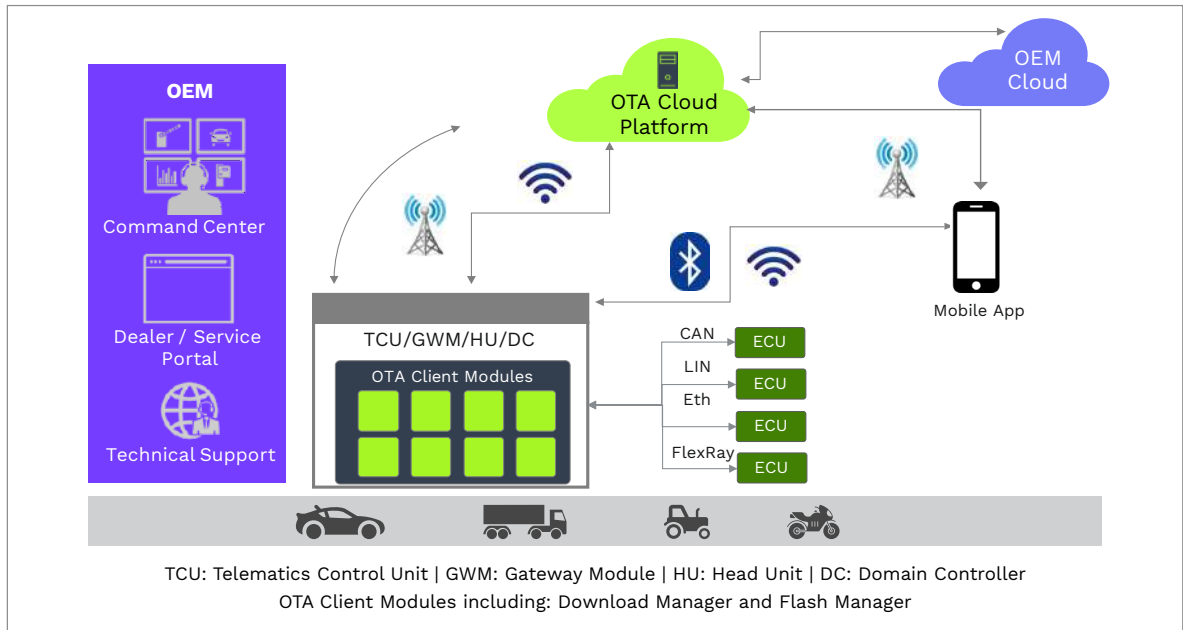
- Multiple ECU Platforms
- Variant Management
- ECU Flashing over CAN, Ethernet or other Communication Buses
- Various Data Formats
- Rapid Adoption to ECU S/W Architectures

Technology Use-Cases handled

- Vehicle Level FOTA/SOTA Update
- Delta / Full Update
- A/B Update or In-place Updates
- Uptane Security



OTA Updates and Data Management Solution Architecture



KPIT's OTA Experience Snapshot

Segment	Customer	OTA Scope	KPIT Solution Used/Built			
			Update Manager	Download Manager	Campaign Management	Diagnostic Manager
	NA OEM	IVI head unit Overall 5+ million cars	●	●		
	British OEM	Battery Control Module (BCM) 20,000 cars / year				●
	German OEM	Multiple ECU 7+ million cars / year				●
	German CV OEM	Telematics module 30,000 / year	●	●	●	
	Indian CV Fleet Owner	Telematics module 35,000 / year	●	●	●	
	Electric CV OEM	Multiple ECU 100 / year	●	●	●	
	NA Agricultural OEM	IVI head unit 100,000 / year				●
	German HVAC Manufacturer	Multiple ECU 50,000 / year				●

To know more about KPIT's Comprehensive OTA Update Solution
 write to us: connectovertheair@kpit.com