

V2X SERVICES

Connected and Safer

Trending

Consumer demands and technology advancements are accelerating telematics & V2X adoption and 70% of all the automotive vehicles to be manufactured in 2021 are expected to be Connected.

In autonomous vehicle, it's application is now a basic safety requirement. V2X will be considered as a sensor for non-line of sight objects

Telematics & V2X adoption will lead to development of Intelligent Transport Systems which requires a convergence of technologies from OEMs, suppliers, telecom providers and service providers.

Opportunities & Challenges

Opportunity in development of V2X applications that enable safe driving, driving assistance, traffic congestion, fuel economy, emergency help, in-car services etc.

Challenge in emulating real conditions with multiple cars and their movements, road side infra, and multi-way communication in test a setup.

Develop and mature applications rapidly while abstracting from the underlying messaging and communication layer, while being able to deploy with any standard in any geography quickly



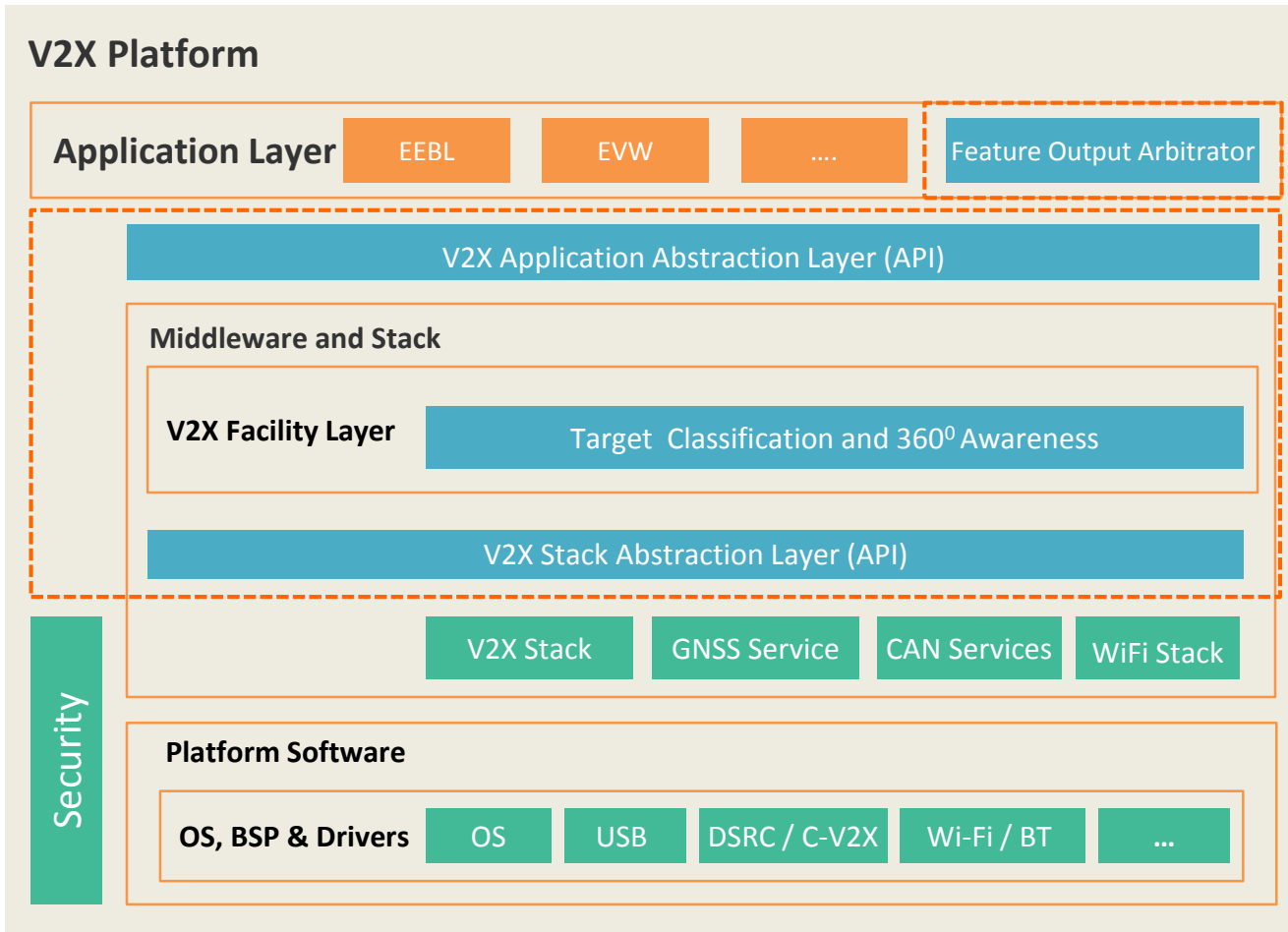
Benefits for Consumer

Telematics helps in increasing productivity, safety by providing in-vehicle driver coaching, compliance with regulators, and integration with other safety and driver assistance systems

V2X communication allows end users to reach destination quickly, safely and in cost effective manner due to availability of traffic information, optimal route, speed suggestions external, internal hazard warnings etc.

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V2X Software Architecture



■ TE Propriety ■ Platform Components ■ Customer Specific

Differentiators

- Cloud Service - Real Time and Offline environment feature validation using Big Data and Cloud
- V2X Emulator –comprehensive Test solution for V2X testing supporting DSRC, C-V2X and AR-V2X

Cases

- V2X architecture definition & development, V2X algorithm & application development, V2X application vehicle integration & testing.
- Automated Telematics services validation of features like eCall, bCall, remote services, stolen vehicle tracking & blocking, Alerts, remote diagnostics, vehicle health report, Mobility connections etc.