

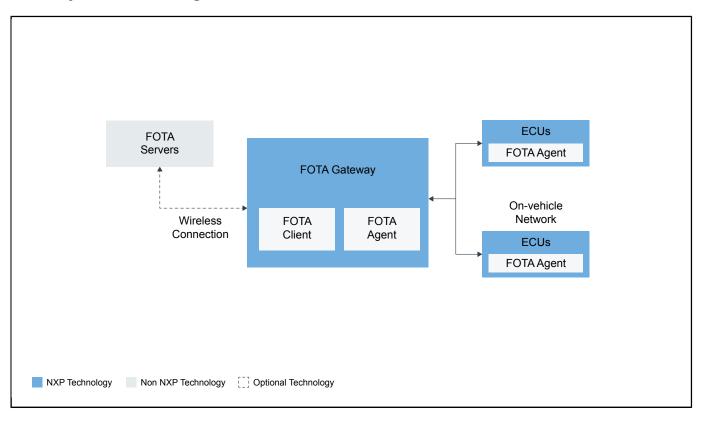
# Firmware Over-the-Air (FOTA)

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The FOTA application allows vehicle ECU firmware to be updated in the background. The FOTA gateway is physically connected with in-vehicle networking and has the ability to communicate with ECUs capable of FOTA updating; and it is typically the controller that performs firmware updating management for the whole vehicle.

A typical FOTA system consists of three components:

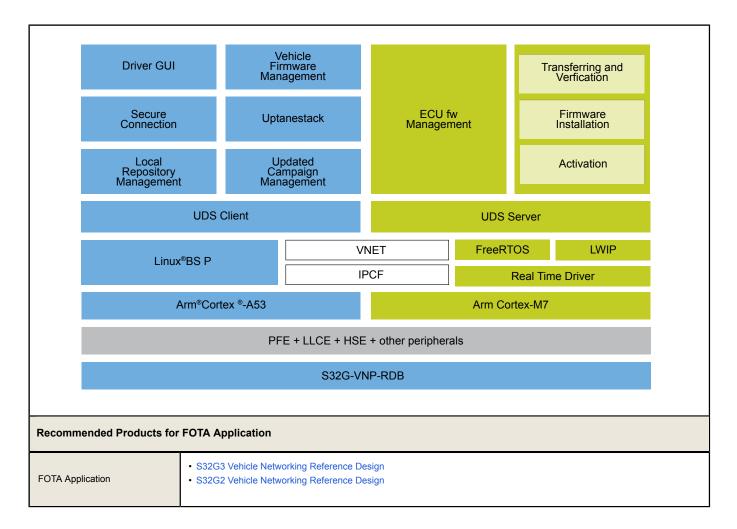
- FOTA server: responsible for the management of vehicle software release, and optionally to customize updates for every vehicle client based on OEM policies.
- FOTA client: application responsible for communication with a backend server and updating campaign management for all the other ECUs in the vehicle. Typically runs on FOTA gateway.
- FOTA agent: application that performs final updating of firmware for ECUs during run-time. It sometimes also runs on FOTA gateway to support self-updating.



## FOTA System Block Diagram

Recommended Products for FOTA System	
FOTA Gateway	<ul> <li>S32G3: S32G3 Processors for Vehicle Networking</li> <li>S32G2: S32G2 Processors for Vehicle Networking</li> <li>GOLDVIP: S32G Vehicle Integration Platform (GoldVIP)</li> </ul>
ECUs	S32K3: S32K3 Microcontrollers for Automotive General Purpose     S32K1: S32K1 Microcontrollers for Automotive General Purpose

### **FOTA Application Block Diagram**



#### View our complete solution for Firmware Over-the-Air (FOTA).

Note: The information on this document is subject to change without notice.

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