



Firmware Over-the-Air (FOTA)

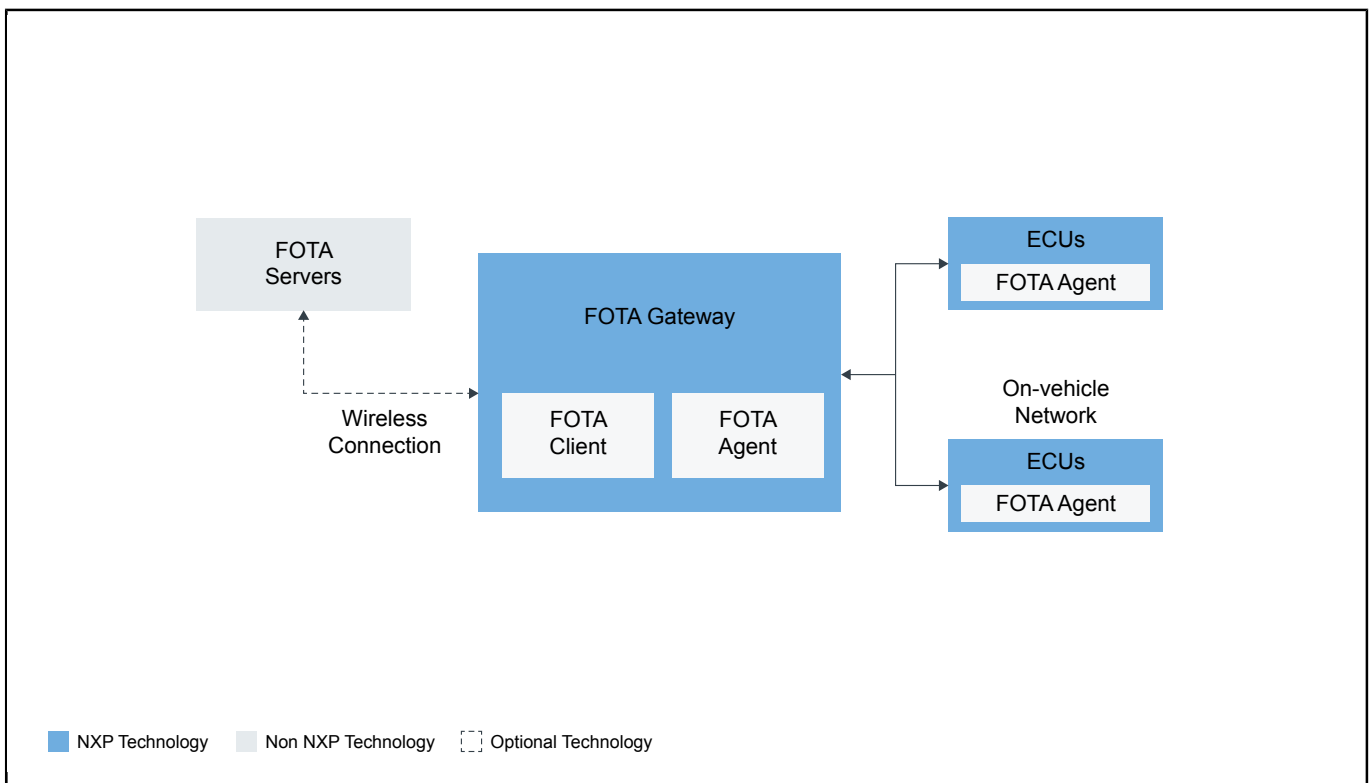
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The FOTA application allows vehicle ECU firmware to be updated in the background. The FOTA gateway is physically connected with in-vehicle networking and has the ability to communicate with ECUs capable of FOTA updating; and it is typically the controller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

A typical FOTA system consists of three components:

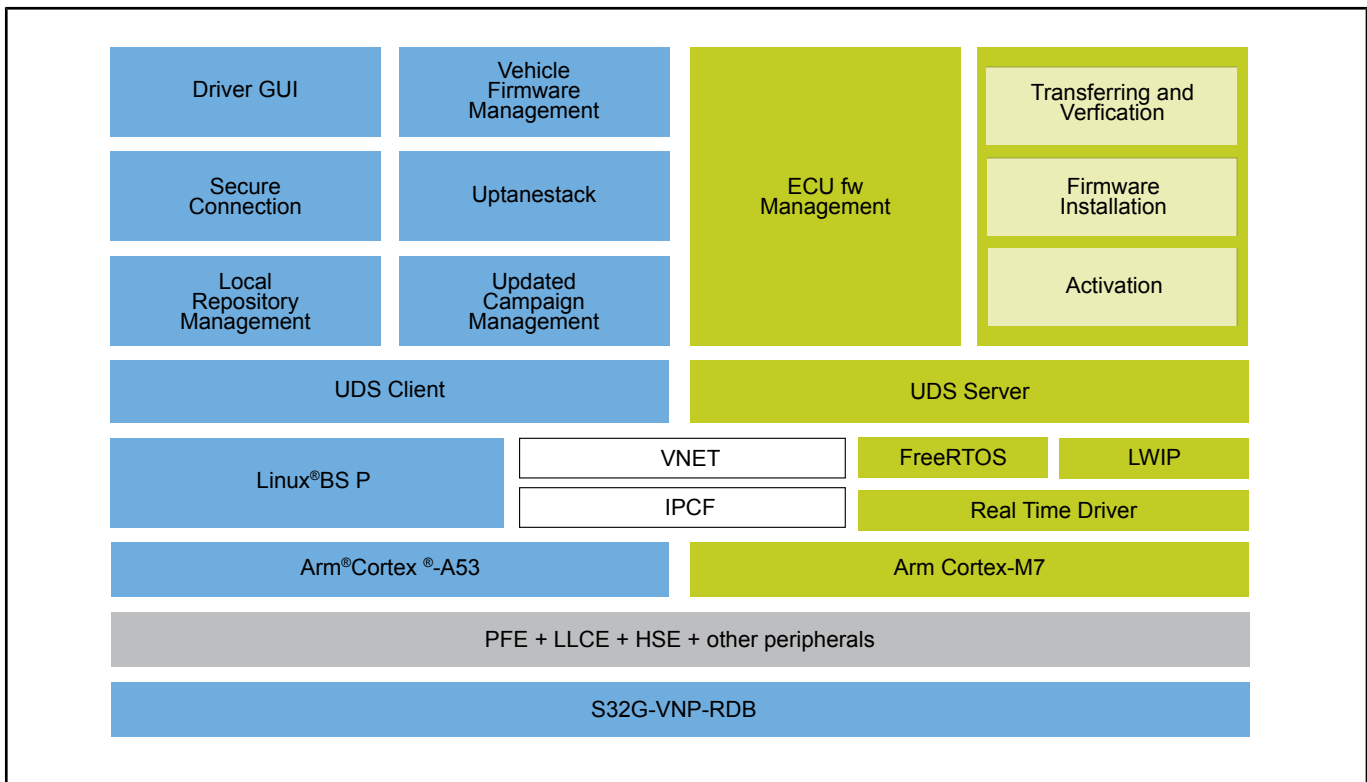
- FOTA server: responsible for the management of vehicle software release, and optionally to customize updates for every vehicle client based on OEM policies.
- FOTA client: application responsible for communication with a backend server and updating campaign management for all the other ECUs in the 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 style="list-style-type: none"> S32G3 Processors for Vehicle Networking S32G2 Processors for Vehicle Networking S32G Vehicle Integration Platform (GoldVIP)
ECUs	<ul style="list-style-type: none"> S32K3 Microcontrollers for General-Purpose

FOTA Application Block Diagram



Recommended Products for FOTA Application	
FOTA Application	<ul style="list-style-type: none"> S32G2 Vehicle Networking Reference Design

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

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