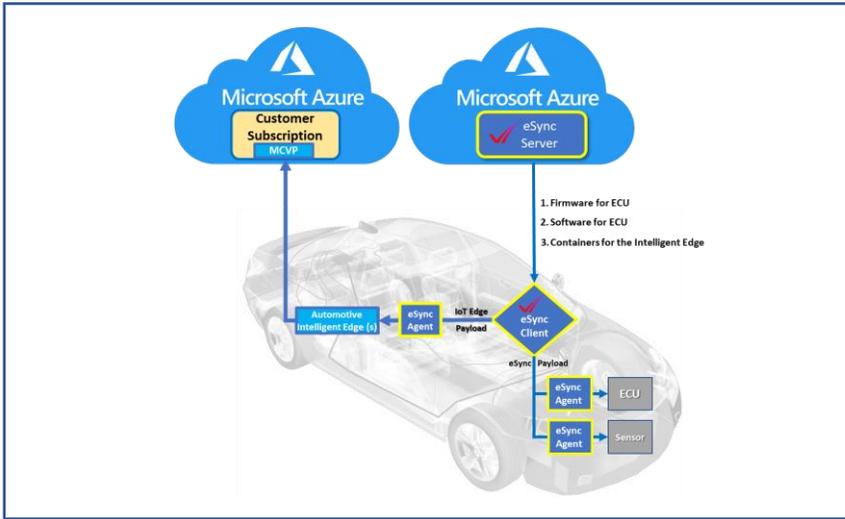


Introduction

The Microsoft Connected Vehicle Platform partner program combines advanced cloud and edge computing services with a strong partner network to empower automotive companies to build connected driving experiences.



The Excelfore eSync OTA pipeline is how MCVP customers will be able to deploy updates to their fleets of vehicles, whether those updates are firmware to ECU's or containers for Automotive Intelligent Edge (Microsoft IoT Edge-based runtime environment).

The eSync Alliance

The eSync Alliance is an open industry trade association dedicated to driving the creation and adoption of a multi-company standard data pipeline for automotive over-the-air (OTA) updates and diagnostics data gathering.

Alliance specifications define protocol, behavior and function for eSync™ Compliant cloud software and in-vehicle firmware, providing a secure data pipeline from the cloud to any number of devices within a vehicle.



The eSync OTA Pipeline

Excelfore provides a complete pipeline of software components that are compliant with eSync Alliance specifications, with the Server on Microsoft Azure, as well as Client and Agent firmware on popular automotive operating systems and processor/controller families.

eSync Server

Excelfore offers three ways to access the eSync Server:

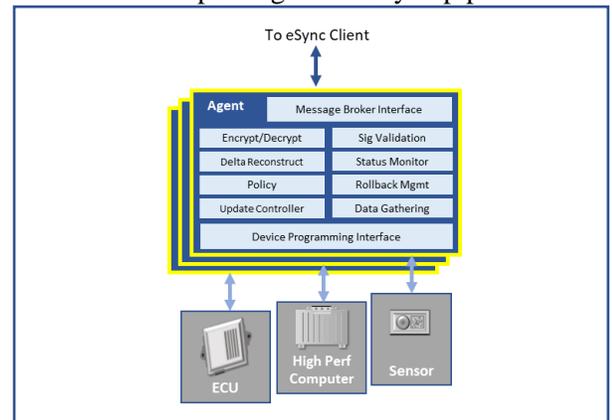
1. Managed OTA Services
2. Software-as-a-Service
3. Licensed / Ported to Client Azure Instance

eSync Client

The eSync Client establishes secure communications with the Server, and with eSync Agents within the vehicle. It aggregates device status information from Agents for reporting to the Server. It receives updates from the Server, verifies them, and transfers them to the correct Agent.

eSync Agents

eSync Agents are distributed throughout the vehicle, and provide the software endpoints for Over-the-Air updating in the eSync pipeline.



Agents exchange data with the Client through the Message Broker and perform the major tasks to update their devices in parallel.