

one M2M Showcase

F: Connected Vehicle Cloud based on oneM2M platform

oneM2M Showcase, 2014-12-09

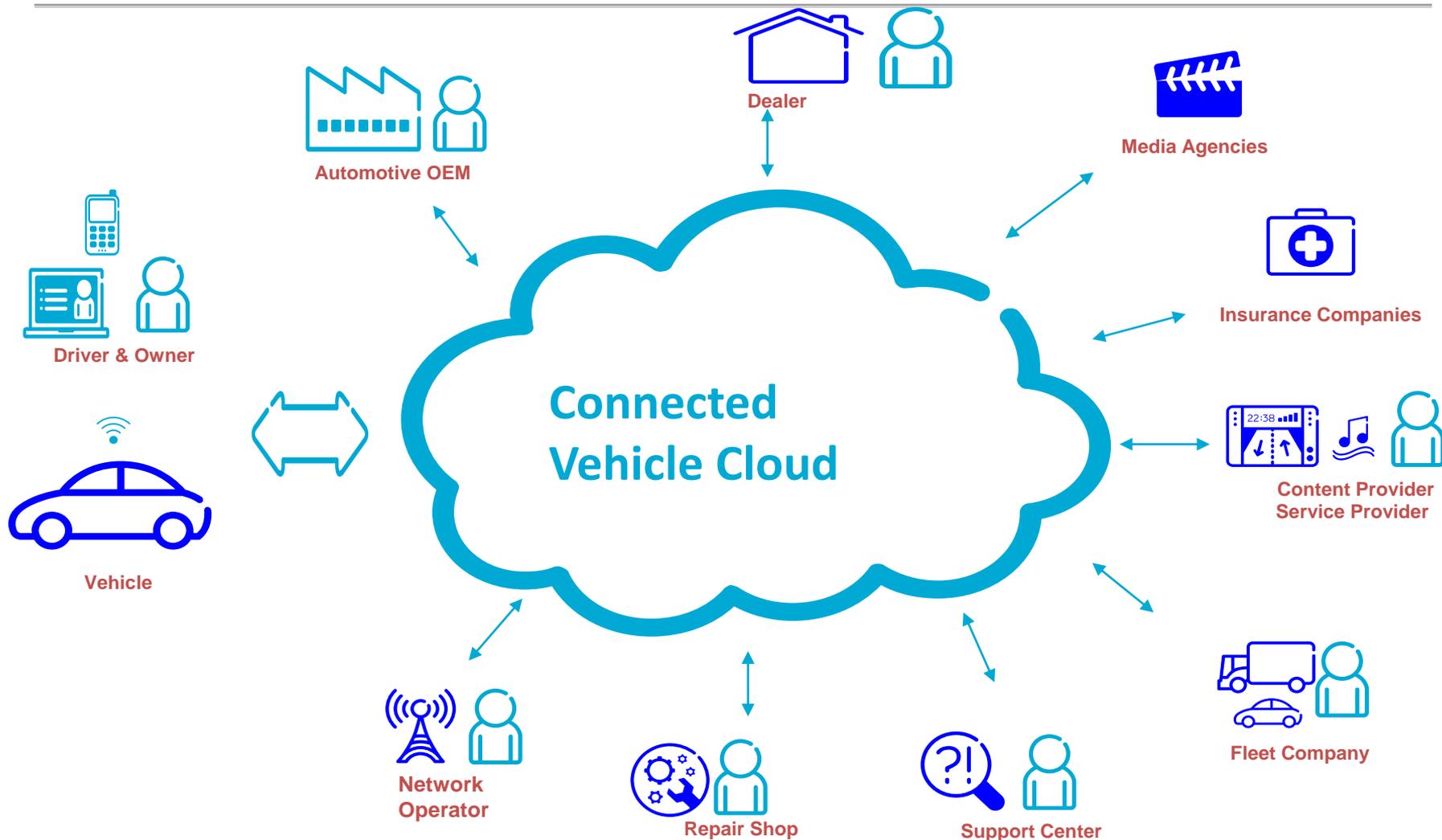
Source: Ericsson

F: Connected Vehicle Cloud based on oneM2M platform



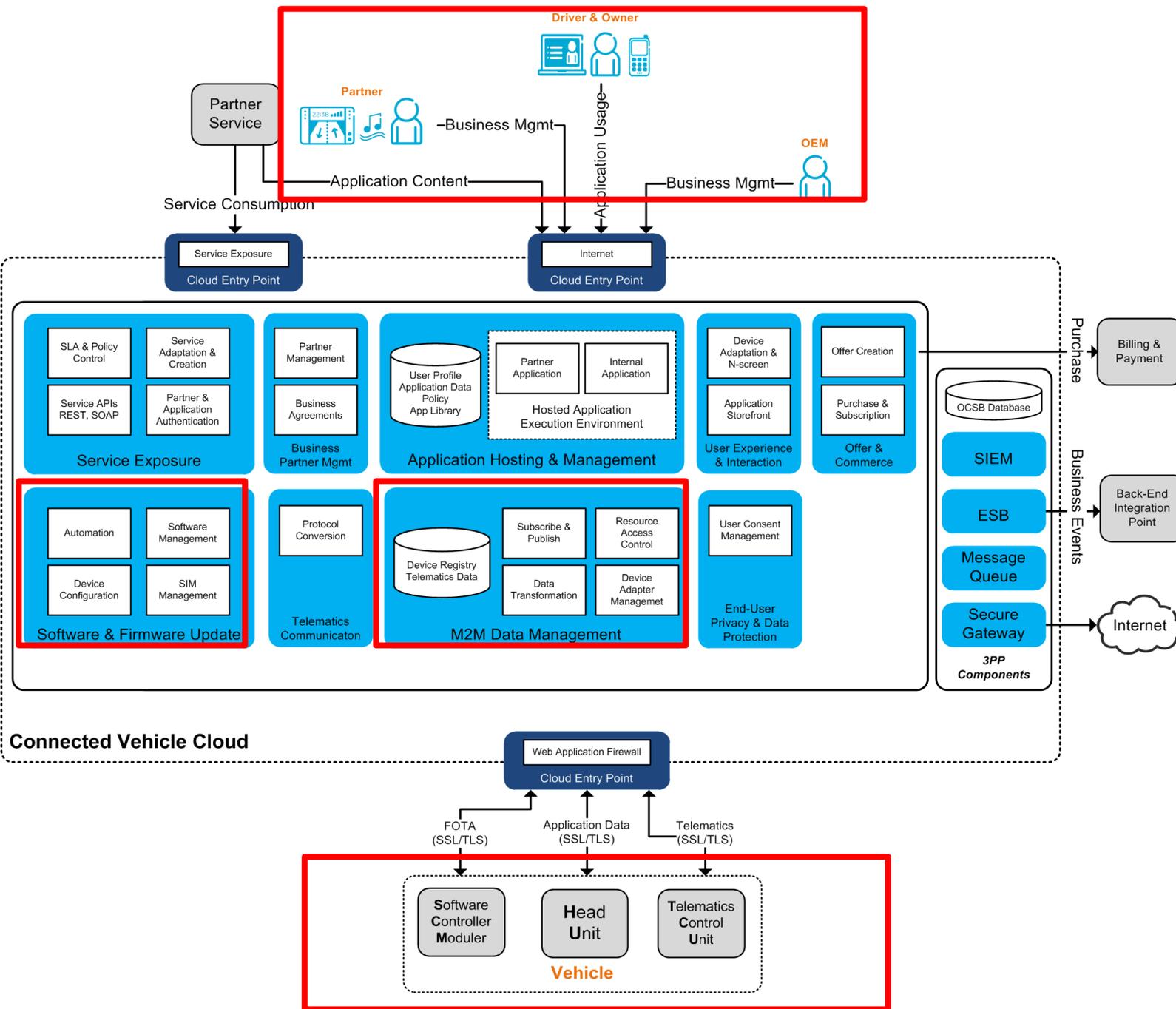
ERICSSON

Connected Vehicle Cloud

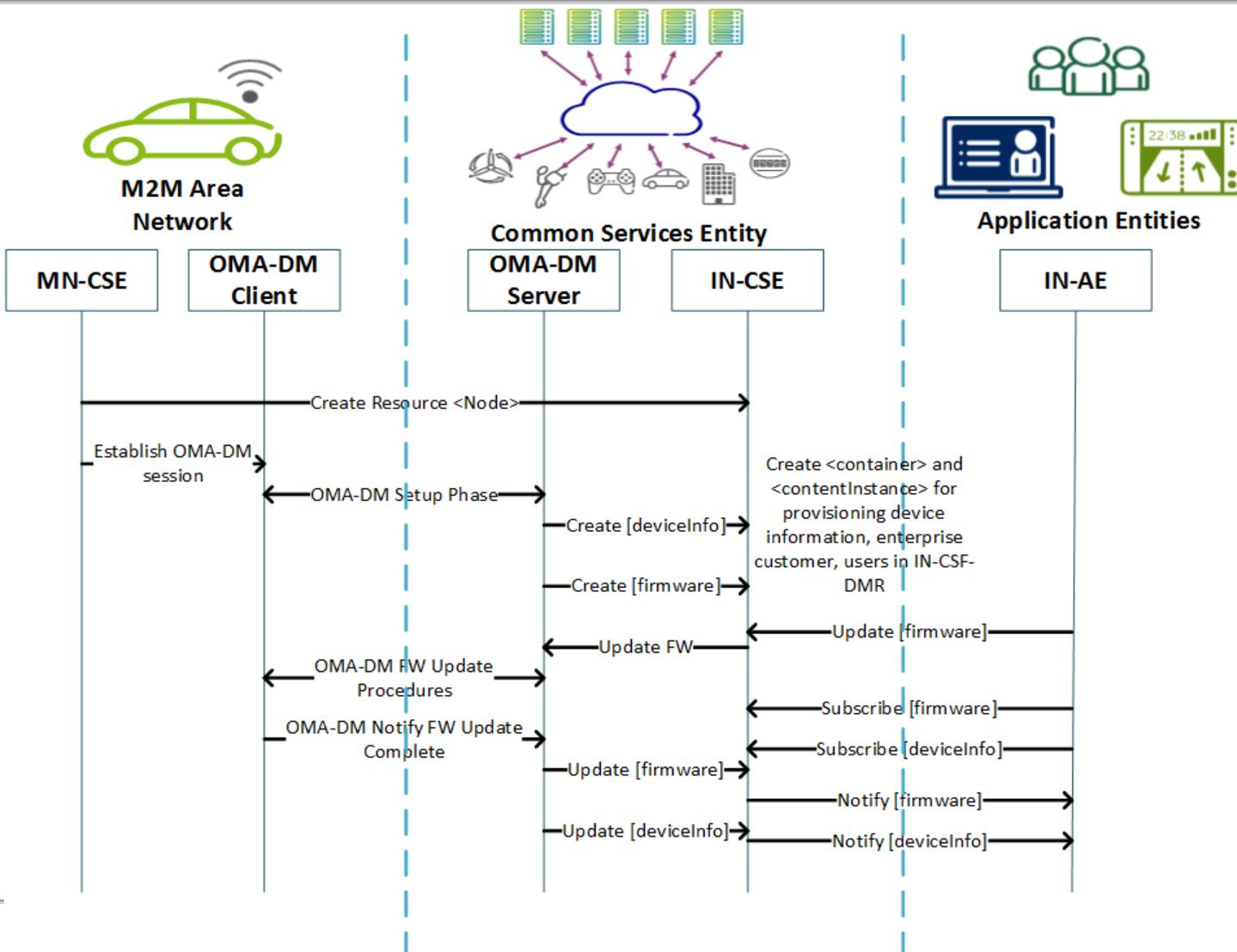


Issues and Challenges

- In order to take advantage of the opportunities of the Connected Vehicles the Automotive OEM needs to overcome a number of technical challenges. Some of these are:
 - Managing protocol complexity
 - Continuous evolution of services and capabilities
 - Remotely manage and upgrade vehicle firmware



Sample Flow



How oneM2M addresses issues

- oneM2M addresses much of the complexity and provides scalable future proof solution.
 - RESTful interfaces, focus on minimizing the payload
 - Support for Device Management mappings: OMA-DM, TR-069 and LWM2M
 - Support for multiple bindings: HTTP, CoAP and MQTT
 - Definition of Reference Points, Resources and Attributes allows easy integration and interoperability

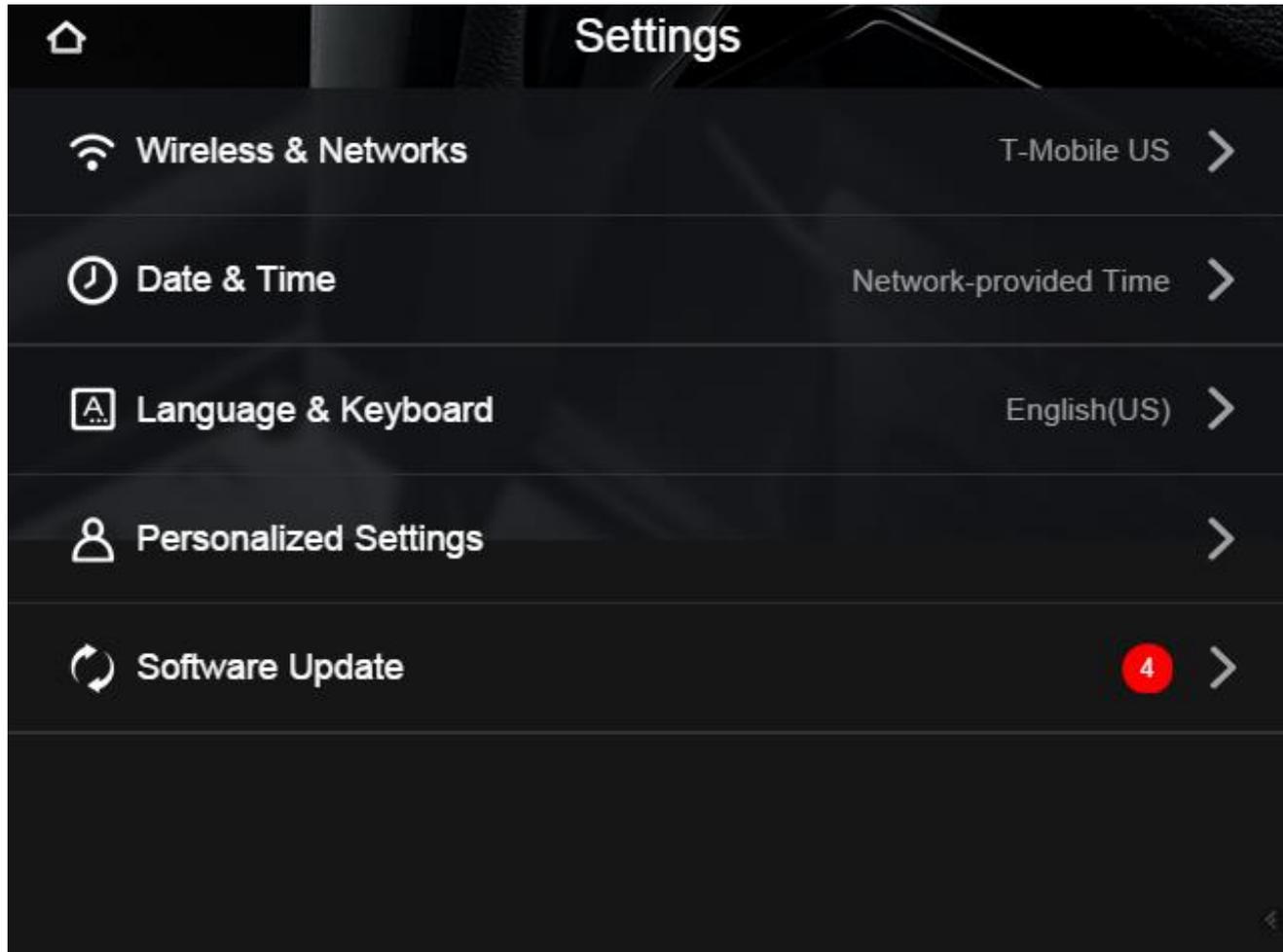
Connected Vehicle Cloud Demo

- In this demo we show examples of:
 - Device Management capabilities (Firmware Over-The-Air)
 - Data Management & Repository capabilities
 - Device Management and Data Management & Repository capabilities interworking

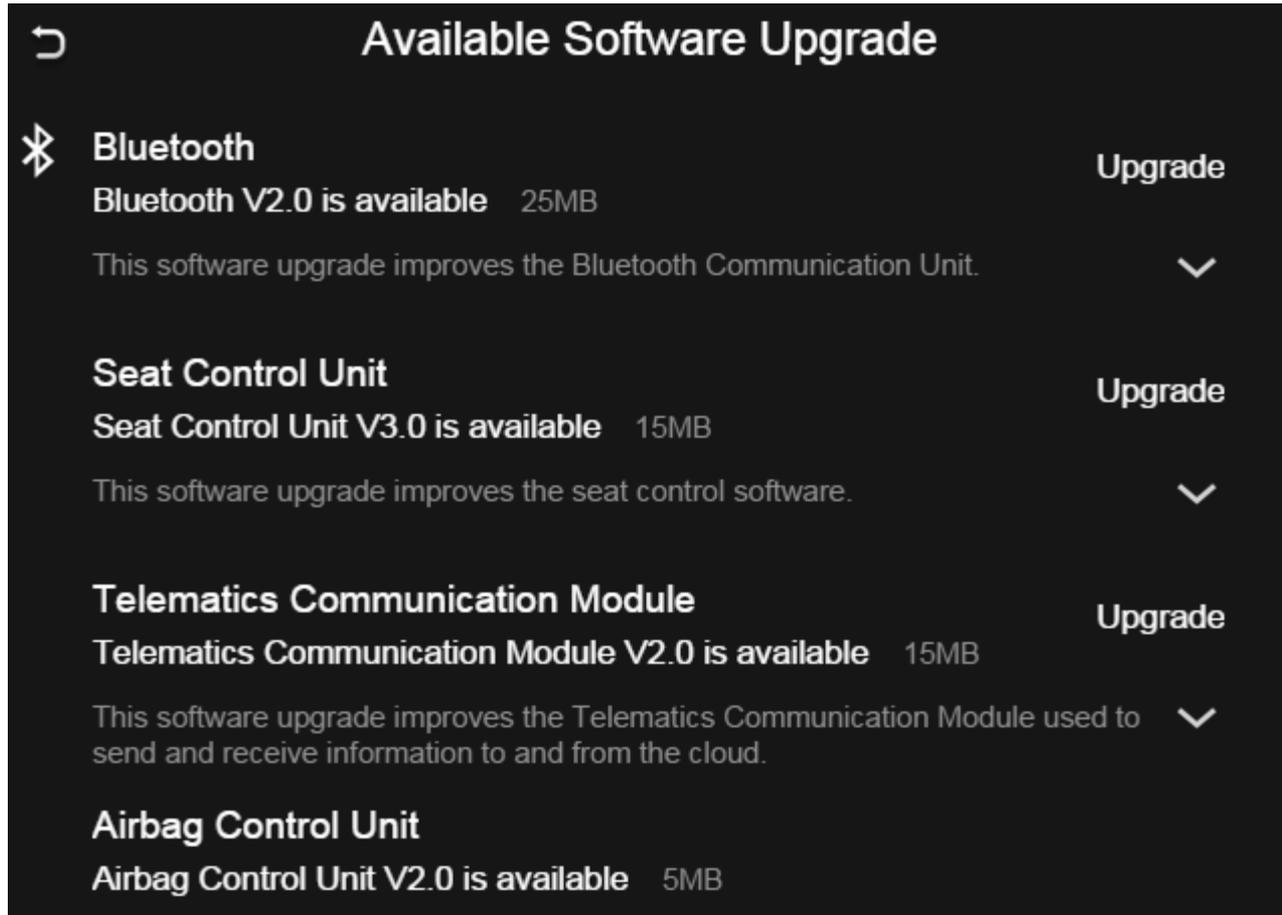
Update Notification on App



Software updates available



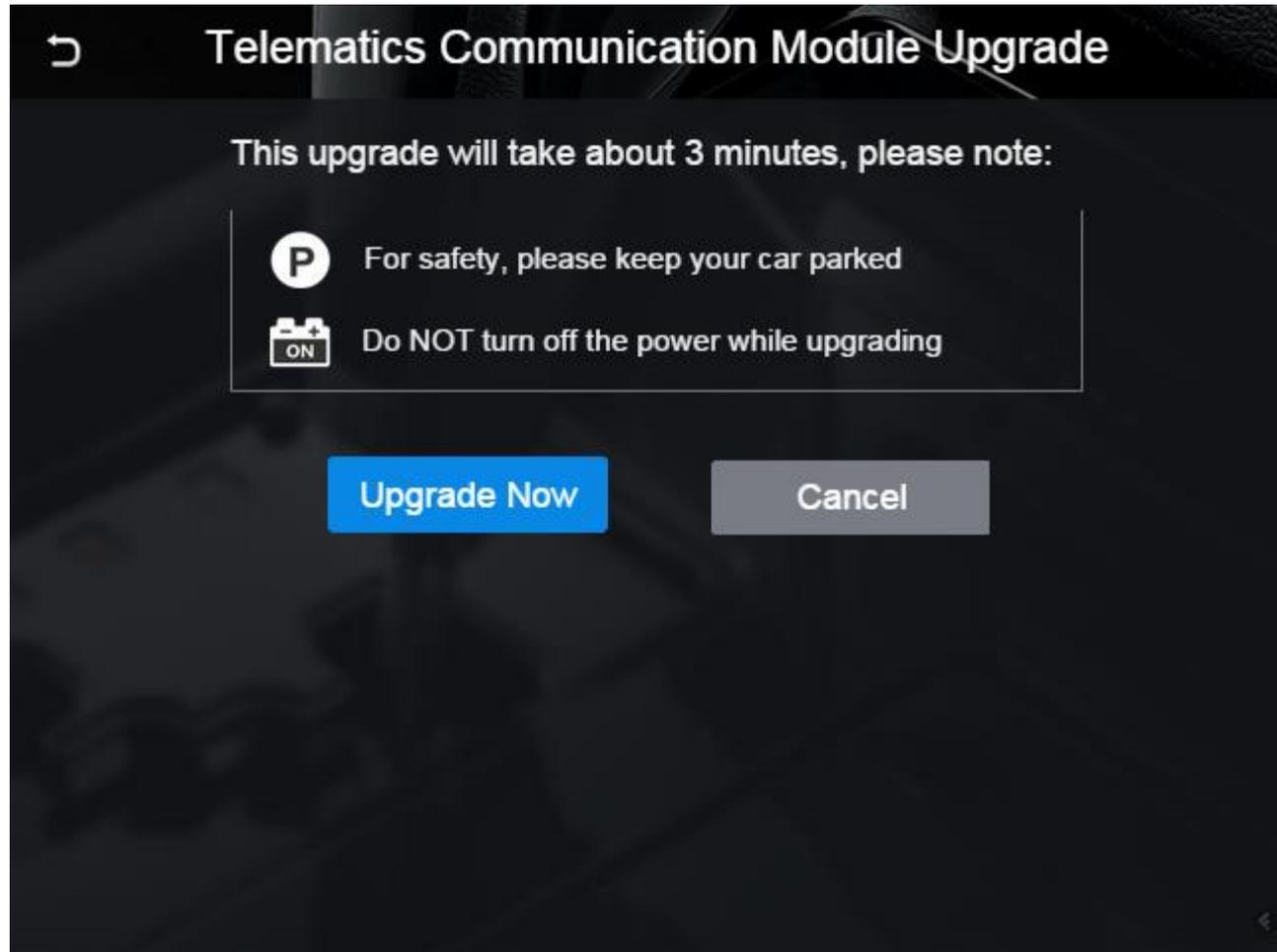
Available software upgrade



The screenshot shows a dark-themed menu titled "Available Software Upgrade" with a back arrow icon. It lists four software upgrade options, each with a Bluetooth icon, a title, a version and size, a description, and an "Upgrade" button with a downward arrow.

Component	Version	Size	Description	Action
Bluetooth	Bluetooth V2.0	25MB	This software upgrade improves the Bluetooth Communication Unit.	Upgrade
Seat Control Unit	Seat Control Unit V3.0	15MB	This software upgrade improves the seat control software.	Upgrade
Telematics Communication Module	Telematics Communication Module V2.0	15MB	This software upgrade improves the Telematics Communication Module used to send and receive information to and from the cloud.	Upgrade
Airbag Control Unit	Airbag Control Unit V2.0	5MB		

Telematics Comm. Upgrade



Telematics Comm. Upgrade

