



**BOSCH**

31 July 2022

To, FCC Authority  
From, Robert Bosch LLC

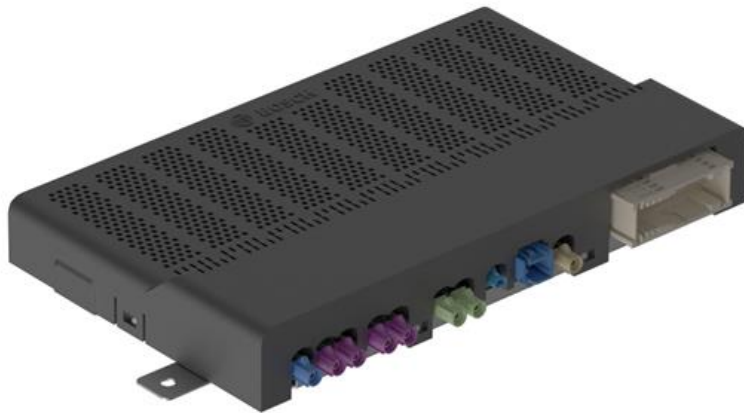
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**Request for Grant of Special Temporary Authorisation (STA)**  
**File Number: 1292-EX-ST-2022**

**Narrative Exhibit Describing Operation**

This application, filed by Robert Bosch LLC, an international manufacturer of tools, automotive equipment, and industrial and consumer products, requests Special Temporary Authority License during a 6-month period beginning as soon as possible and ending six month later, to permit development and testing, a telematics unit which supports connectivity using commercial mobile networks in the area. The product is intended to address the challenges of connectivity associated with current transportation and management of vehicles (including commercial vehicles, agricultural and industrial vehicles, passenger cars and other mobility applications). The applications of this product will include vehicle management, geofencing, fleet management, remote diagnostics, theft protection, alerts and preventive maintenance.

Communications will be commercially provided through AT&T or another commercial service provider for this series of experiments using SIM cards from the local commercial mobile service provider. ***Bosch will not be using spectrum in the cellular bands that is allocated to any commercial service provider other than through commercial service providers, principally AT&T, so no interference on those allocations can arise from the use of this device.*** Specific frequencies will be determined by the network operator only. There will be no RF signals transmitted without the SIM card from the commercial service provider.



The product uses network data services provided by the commercial service provider to transfer information to the server. This system is capable of using 2G, 3G and LTE depending on the SIM provided by the commercial mobile services provider.

Wi-Fi and Bluetooth capabilities are incorporated in the product, but those will be used only for in-vehicle applications where the product acts as a local hotspot. Only Part 15 bands are specified for these components of the product.

There will also be a GPS receiver included in the product.

The V2X Technologies supported in the device are both DSRC and C-V2X (PC5) side link communication. For V2X, we just plan to test on the bench the packet transmission between two devices and the warnings that these transmissions are generating on bench. We would like to experiment and ability of our devices to switch between DSRC and C-V2X seamlessly. There is no plan to test or use these devices on the roads as part of this experiment.

All of the experimental devices will be retrieved by Robert Bosch LLC from all locations upon completion of the operation.

Neither the composite product nor its components is certified in the United States as of yet. Hence the need for the STA License for this pre-production testing and development of vehicular applications for the device.

The bands sought herein are as follows:



<i>3G Band 2: 1850 to 1910 MHz</i>
<i>LTE Band 2: 1850 to 1910 MHz</i>
<i>3G Band 5: 824 to 849 MHz</i>
<i>LTE Band 4: 1710 to 1755 MHz</i>
<i>LTE Band 12: 699 to 716 MHz</i>
<i>WiFi 2GHz: 2400 – 2483.5 MHz</i>
<i>WiFi 5GHz: 5500 - 5825 MHz</i>
<i>BLE: 2402 – 2483.5 MHz</i>
<i>DSRC/cV2X Band 47: 5855 - 5925 MHz</i>

The Stop Buzzer contact in the United States for Bosch for this test series will be Suman Yelati of Bosch, whose mobile phone number is 248-697-8195 and whose e-mail is [suman.yelati@us.bosch.com](mailto:suman.yelati@us.bosch.com). Should any interference arise or be complained of by any entity during the event, all operation will cease until the interference complaint is resolved to the satisfaction of the complainant.

Suman Yelati  
Senior Software Architect