

**Robert Bosch LLC**  
**Request for Grant of Special Temporary Authority**  
**File No. 2061- EX-ST-2018**  
**Narrative Exhibit Describing Operation**

This application for STA is similar but not identical to a granted application for Special Temporary Authority (See File No. 1893-EX-ST-2018, Call Sign WN9XPI) and a pending application (See File No. 2050-EX-ST-2018) proposing operation of a telematics composite device to provide connectivity at two separate locations (the granted STA is at Novi, Michigan and the application is for Columbus, Indiana). However, the device under development for which this application is submitted at these same two locations is a different device, with different hardware, than the device whose development is facilitated by the granted and pending STA requests discussed above.

This application is filed by Robert Bosch LLC, an international manufacturer of tools, automotive equipment, and industrial and consumer products. Bosch respectfully requests special temporary authority during a six-month period beginning as soon as possible and ending six months later, to permit development and testing to validate the product during the development phase, at two locations, Novi, Michigan and Columbus, Indiana and within a 20 kilometer radius of each centerpoint. The product is 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, passenger cars and other mobility applications). Commercial service for these devices in the listed bands will be commercially provided through AT&T for this experiment. All arrangements for this have already been made with AT&T 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 AT&T.* 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 3G and LTE depending on the SIM provided by the commercial mobile services provider. IMEI numbers have been issued by AT&T for this test already.

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.

The bands sought herein are as follows:

3G Band 2: 1850 to 1910 MHz& 1930 to 1990 MHz  
3G Band 5: 824 to 849 MHz& 869 to 894 MHz  
LTE Band 2: 1850 to 1910 MHz& 1930 to 1990 MHz  
LTE Band 4: 1710 to 1755 MHz & 2110 to 2155 MHz  
LTE Band 5 : 824 to 849 MHz & 869 to 894 MHz

LTE Band 12: 699 to 716 & 729 to 746 MHz  
WiFi 2GHz: 2400 – 2483.5 MHz  
WiFi 5GHz: 5180 – 5320 MHz & 5500 - 5825 MHz  
BLE: 2402 – 2483.5 MHz

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

Neither the composite product nor its components are certified in the United States as of yet.  
Hence the need for the STA.

Bosch does not anticipate the need for any extension or renewal of this test and will comply with all conditions associated with the STA granted for a similar product by WN9XPI.

The Stop Buzzer contact in the United States for Bosch for this test series will be Mr. Andy Hempel of Bosch, whose direct phone number is 248.876.5958 and whose e-mail is [Andy.Hempel@bosch.com](mailto:Andy.Hempel@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.

Should any question arise concerning this application, kindly notify undersigned counsel.

Christopher D. Imlay  
Booth, Freret & Imlay, LLC  
14356 Cape May Road  
Silver Spring, MD 20904-6011  
(301) 384-5525 telephone  
(301) 384-6384 facsimile  
[chris@imlaylaw.com](mailto:chris@imlaylaw.com)