

**Nokia Solutions and Networks US LLC
Request for Modification of Call Sign WE2XNR
File No. 0156-EX-ML-2014**

DESCRIPTION OF FILING

Pursuant to Sections 5.3(i) and 5.53 of the Federal Communications Commission (“FCC”) rules, 47 C.F.R. §§ 5.3(i), 5.53 (2012), Nokia Solutions and Networks US LLC (“NSN”) respectfully requests the modification of its experimental license issued under call sign WE2XNR (0263-EX-RR-2014) to add emission designators and adjust the permitted frequency bands so that it may test and evaluate hardware and software solutions associated with various communications systems under research and development.

In support of NSN’s request, the following is shown:

A) Applicant’s Name, Address, Telephone Numbers, and FRN:

Nokia Solutions and Networks US LLC
600 Connection Drive,
Irving, Texas 75039

FCC Registration Number (FRN): 0009724881

NSN notes that the authorization issued under call sign WE2XNR identifies “Nokia” as the licensee. The complete name of the licensee is “Nokia Solutions and Networks US LLC.” As part of this request, it respectfully requests that the licensee name be changed to “**Nokia Solutions and Networks US LLC.**”

B) Purpose and Description of Operation:

NSN is actively involved in the research and development of hardware and software solutions associated with communications systems for use by consumers, businesses, and the public safety community. By this application, it seeks a modification of its authorization to expand its capability to test prototype equipment at its facilities in Irving, Texas. Specifically, the modification requested herein will allow NSN to test the propagation and performance characteristics of a variety of wireless devices and systems. This evaluation will include an assessment of the functionality of the devices and systems and their ability to operate under varying conditions.

Moreover, NSN does not propose to market, sell, or lease unapproved equipment to end users or conduct a market study in conjunction with this test. After the completion of any test, NSN will recall and recover all devices that do not comply with FCC regulations. If any different treatment becomes necessary during the course of its experimentation, NSN will seek separate and additional authority from the agency.

C) Requested Modifications:

NSN seeks to add emission designators and adjust the permitted frequency bands to its location at Irving, Texas (Location No. 1). Specifically, it seeks to:

- (1) Add a new band 717-728 MHz with emission designators 5M00D7W and 10M0F9W with a power level of 251 mW
- (2) Add emission designators 5M00D7W, 10M0W7W and 20M0F9W to the existing band on the license covering 729-746 MHz, consolidate its separate authority to operate in the band 746- 756 MHz so that the band covered is 729-756 MHz
- (3) Add emission designators 5M00D7W and 10M0F9W to the existing band on the license covering 758-768 MHz
- (4) Add emission designators 5M00D7W and 20M0F9W to the existing band on the license covering 869-894 MHz and extend the authority to include the band 859-894 MHz
- (5) Add a new band 1805-1880 MHz with emission designator 20M0F9W with a power level of 251 mW
- (6) Add emission designators 5M00D7W and 20M0F9W to the existing band on the license covering 1930-1990 MHz and extend the authority to include the band 1930-1995 MHz
- (7) Add emission designators 5M00D7W and 20M0F9W to the existing band on the license covering 2110-2170 MHz
- (8) Add a new band 2350-2360 MHz with emission designators 5M00D7W and 10M0F9W with a power level of 251 mW
- (9) Add emission designators 5M00D7W and 20M0F9W to the existing band on the license covering 2570-2620 MHz, consolidate its separate authority to operate in the band 2620-2690 MHz, so that the band covered is 2500-2690 MHz

NSN might also use other emission modes and modulation techniques. If other emission modes and modulation techniques are utilized, in no event will the emissions extend beyond the frequency bands requested.

D) Overall Height of Antenna(s) Above Ground:

NSN will comply with all FAA and FCC rules and regulations regarding the installation and operation of antennas. The antennas to be deployed under this authority will not extend more than six meters above the ground or, if mounted on an existing building or tower, will not extend more than six meters above the building or above the FAA/FCC approved height of the tower with appurtenances.

E) Restrictions on Operation / Interference Protection:

NSN recognizes that the operation of any equipment under experimental authority must not cause harmful interference to authorized facilities and that this request may need to be coordinated by the Commission through the Interdepartment Radio Advisory Committee (“IRAC”). Should interference occur, the company will take immediate steps to resolve the interference, including if necessary arranging for the discontinuance of operation. In any event, NSN submits that its experimental operations are unlikely to cause interference. The company proposes to limit the power and transmitting times to the minimum necessary to evaluate the equipment.

In addition, NSN understands: (a) that permission to operate the units has been granted under experimental authority issued by the Federal Communications Commission, is strictly temporary, and may be cancelled at any time and (b) that operation is subject to the condition that it not cause harmful interference. To that end, NSN would advise entities using the equipment that permission to operate the equipment has been granted under experimental authority issued to NSN, is strictly temporary and may be canceled at any time. For example, as needed, NSN proposes to label the equipment or user information conspicuously as follows:

FCC STATEMENT Permission to operate this device has been granted under experimental authority issued by the Federal Communications Commission to Nokia Solutions and Networks US LLC, is strictly temporary, and may be canceled at any time. This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained. Thus, the user does not hold a property right in the device and may be required to return the device.

F) Stop Buzzer Contact Information:

NSN advises the Commission that Roberto Bueno, NSN Laboratory Manager, is the technical contact for this request. He will be personally responsible for the operations to be conducted and will serve as the “stop buzzer” in the event that operations must be terminated because of any interference concerns. Mr. Bueno can be reached at (817) 300-7061; email: bob.bueno@nsn.com.

G) Compliance With Human Exposure Limits:

NSN certifies that it will operate under this experimental license⁴ in full compliance with IEEE C95.1 - 1991, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz". All personnel who will operate the equipment are knowledgeable as to the effects of RF energy and will have the ability to control their exposure.

H) Public Interest:

NSN submits that issuance the requested modification is in the public interest, convenience, and necessity, as it will permit NSN to develop innovative equipment that will accommodate the communications needs of its customers and, ultimately, their end-users and the public.

I) Application Contact Information:

Company Contact
and Stop Buzzer Contact:

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