

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

WI2XHS

(Call Sign)

XT FX MO

(Class of Station)

0225-EX-CR-2021

(File Number)

NAME Nokia Solutions and Networks US LLC

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(j) of the Commission's Rules

Station Locations

- (1) Irving (DALLAS), TX - NL 32-53-37; WL 96-57-57; MOBILE: 6000 Connection Dr, within 2 km
- (2) Arlington Heights (COOK), IL - NL 42-08-08; WL 87-59-56; MOBILE: 1455 West Shure Drive, within 2 km
- (3) Waltham (MIDDLESEX), MA - NL 42-23-43; WL 71-16-18; MOBILE: 500 Sylvan Road (Verizon facility), within 2 km
- (4) Basking Ridge (SOMERSET), NJ - NL 40-43-31; WL 74-32-03; MOBILE: 1 Verizon Way, within 2 km
- (5) Euless (TARRANT), TX - NL 32-51-03; WL 97-04-13; MOBILE: 1001 Bear Creek Parkway (Verizon facility), within 2 km
- (6) Murray Hill (UNION), NJ - NL 40-41-02; WL 74-24-04; MOBILE: 600 Mountain Ave, within 2 km
- (7) South Plainfield (MIDDLESEX), NJ - NL 40-33-16; WL 74-25-47; MOBILE: 6000 Hadley Road, within 2 km
- (8) Framingham (MIDDLESEX), MA - NL 42-17-14; WL 71-26-30; MOBILE: 6-8 Robert Road, within 2 km
- (9) Coppell (DALLAS), TX - NL 32-56-08; WL 96-59-01; MOBILE: Nokia Facility, within 2 km, centered around NL 32-56-08; WL 96-59-01
- (10) Plano (COLLIN), TX - NL 33-02-24; WL 96-45-07; MOBILE: Nokia Facility, within 2 km, centered around NL 33-02-24; WL 96-45-07
- (11) Naperville, IL - NL 41-48-47; WL 88-07-16; MOBILE: Nokia Facility, within 2 km, centered around NL 41-48-47; WL 88-07-16

This authorization effective May 01, 2021 and
will expire 3:00 A.M. EST May 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Irving (DALLAS), TX - NL 32-53-37; WL 96-57-57; MOBILE: 6000 Connection Dr, within 2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
38.6-40 GHz	FX	1K00N0N 20M0W7W 500MW7W 1G00W7W 800MW7W	54 W (ERP)	
38.6-40 GHz	MO	1K00N0N 20M0W7W 500MW7W 1G00W7W 800MW7W	54 W (ERP)	

Arlington Heights (COOK), IL - NL 42-08-08; WL 87-59-56; MOBILE: 1455 West Shure Drive, within 2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
38.6-40 GHz	FX	1K00N0N 20M0W7W 500MW7W 1G00W7W 800MW7W	54 W (ERP)	
38.6-40 GHz	MO	1K00N0N 20M0W7W 500MW7W 1G00W7W 800MW7W	54 W (ERP)	

Frequency Information

Waltham (MIDDLESEX), MA - NL 42-23-43; WL 71-16-18; MOBILE: 500 Sylvan Road (Verizon facility), within 2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
38.6-40 GHz	FX	1K00N0N 20M0W7W 500MW7W 1G00W7W 800MW7W	54 W (ERP)	
38.6-40 GHz	MO	1K00N0N 20M0W7W 500MW7W 1G00W7W 800MW7W	54 W (ERP)	

Basking Ridge (SOMERSET), NJ - NL 40-43-31; WL 74-32-03; MOBILE: 1 Verizon Way, within 2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
38.6-40 GHz	FX	1K00N0N 20M0W7W 500MW7W 1G00W7W 800MW7W	54 W (ERP)	
38.6-40 GHz	MO	1K00N0N 20M0W7W 500MW7W 1G00W7W 800MW7W	54 W (ERP)	

Frequency Information

Euless (TARRANT), TX - NL 32-51-03; WL 97-04-13; MOBILE: 1001 Bear Creek Parkway (Verizon facility), within 2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
38.6-40 GHz	FX	1K00N0N 20M0W7W 500MW7W 1G00W7W 800MW7W	54 W (ERP)	
38.6-40 GHz	MO	1K00N0N 20M0W7W 500MW7W 1G00W7W 800MW7W	54 W (ERP)	

Murray Hill (UNION), NJ - NL 40-41-02; WL 74-24-04; MOBILE: 600 Mountain Ave, within 2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
38.6-40 GHz	FX	1K00N0N 20M0W7W 500MW7W 1G00W7W 800MW7W	54 W (ERP)	
38.6-40 GHz	MO	1K00N0N 20M0W7W 500MW7W 1G00W7W 800MW7W	54 W (ERP)	

Frequency Information

South Plainfield (MIDDLESEX), NJ - NL 40-33-16; WL 74-25-47; MOBILE: 6000 Hadley Road, within 2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
38.6-40 GHz	FX	1K00N0N 20M0W7W 500MW7W 1G00W7W 800MW7W	54 W (ERP)	
38.6-40 GHz	MO	1K00N0N 20M0W7W 500MW7W 1G00W7W 800MW7W	54 W (ERP)	

Framingham (MIDDLESEX), MA - NL 42-17-14; WL 71-26-30; MOBILE: 6-8 Robert Road, within 2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
38.6-40 GHz	FX	1K00N0N 20M0W7W 500MW7W 1G00W7W 800MW7W	54 W (ERP)	
38.6-40 GHz	MO	1K00N0N 20M0W7W 500MW7W 1G00W7W 800MW7W	54 W (ERP)	

Frequency Information

Coppell (DALLAS), TX - NL 32-56-08; WL 96-59-01; MOBILE: Nokia Facility, within 2 km, centered around NL 32-56-08; WL 96-59-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
38.6-40 GHz	FX	500MW7W 1G00W7W 800MW7W	54 W (ERP)	
38.6-40 GHz	MO	1K00N0N 20M0W7W 500MW7W 1G00W7W 800MW7W	54 W (ERP)	

Plano (COLLIN), TX - NL 33-02-24; WL 96-45-07; MOBILE: Nokia Facility, within 2 km, centered around NL 33-02-24; WL 96-45-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
38.6-40 GHz	FX	1K00N0N 20M0W7W 500MW7W 1G00W7W 800MW7W	54 W (ERP)	
38.6-40 GHz	MO	1K00N0N 20M0W7W 500MW7W 1G00W7W 800MW7W	54 W (ERP)	

Frequency Information

Naperville, IL - NL 41-48-47; WL 88-07-16; MOBILE: Nokia Facility, within 2 km, centered around NL 41-48-47; WL 88-07-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
38.6-40 GHz	FX	500MW7W 1G00W7W 800MW7W 1K00N0N 20M0W7W	54 W (ERP)	
38.6-40 GHz	MO	1K00N0N 20M0W7W 500MW7W 1G00W7W 800MW7W	54 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (3) Licensee shall prior coordinate with the incumbent fixed microwave in each corresponding proposed venue prior to conducting the testing.
- (4) Prior to operation, licensee must coordinate with satellite stations authorized to operate in these frequency bands that are located within a 25 mile radius of the transmitter.
- (5) Licensee must avoid pointing the main beam transmitting antenna within 10 degrees of any point on the geostationary orbit arc in the 38.6-40 GHz band.
- (6) Licensee should be aware that other stations are licensed on 38.6-40 GHz band and if any interference occurs, the experimental licensee of this authorization will be subject to immediate shut down.
- (7) Prior to commencing any operations, the applicant must coordinate with the Fixed Microwave Service licensees in each proposed location in accordance with 47 C.F.R, Part 101.103(d) prior to operation in 38.6-40 GHz band to protect the microwave service operations.

Special Conditions:

- (8) Prior to operation, experimental licensee, must notify licensees of FSS earth stations operating the 3700-4200 MHz within 10-kilometer radius of the locations from which experimental operations will occur. Experimental licensee must also provide such notification to the National Spectrum Managers Association frequency coordinators by email. (see http://wireless.fcc.gov/services/index.htm?job=licensing_1&id=microwave). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna pattern, antenna height(s), antenna orientation, eirp density) and day and times of each test. Consult the IBFS database to identify licensed earth station in the band 3700-4200 MHz band.
- (9) The experimental stations power flux-density (pfd) at FSS earth stations must not exceed -154.5 dB (W/(m² · 4 kHz)).
- (10) Stop Buzzer Point of contact is Glenn Steitz 973-214-0028
- (11) Operation in the 38.6-40.0 GHz band must comply with the unwanted emission power levels of ITU Resolution 243.