

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WS9XSN

(Call Sign)

XT MO

(Class of Station)

1304-EX-ST-2021

(File Number)

NAME Centum Research & Technology, S.L.

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

To demonstrate to the mobile operators that the device does not interfere with their networks and to allow the carriers and the applicant to develop processes for carriers to authorize third party

Station Locations

- (1) MOBILE: 65 mile radius of Santa Barbara, CA, within 110 km, centered around NL 34-26-23; WL 119-46-52

Frequency Information

MOBILE: 65 mile radius of Santa Barbara, CA, within 110 km, centered around NL 34-26-23; WL 119-46-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
729-758 MHz	MO	5M00M7D	1 W (ERP)	0.0001 %
859-869 MHz	MO	5M00M7D	1 W (ERP)	0.0001 %
925-960 MHz	MO	5M00M7D	1 W (ERP)	0.0001 %

This authorization effective October 01, 2021 and
will expire 3:00 A.M. EST May 11, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: 65 mile radius of Santa Barbara, CA, within 110 km, centered around NL 34-26-23; WL 119-46-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1930-2020 MHz	MO	5M00M7D	1 W (ERP)	0.0001 %
2100-2200 MHz	MO	5M00M7D	1 W (ERP)	0.0001 %
2350-2360 MHz	MO	5M00M7D	1 W (ERP)	0.0001 %

Special Conditions:

- (1) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at <http://sbe.org/resources/frequency-coordination/> to find the appropriate coordinator.
- (2) Experimental licensee must exclude the use of all frequencies in the bands that are designated under Part 90 of the FCC rules.
- (3) Prior to commencing any operations in the 2180-2190 MHz frequency band, experimental licensee must notify licensee of GAMMA ACQUISITION L.L.C. (Call sign E060430, POC/Satellite: S2633. Name: Ms. Allison Minea, Phone Number: 202-293-1216, E-Mail: alison.minea@dish.com). 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 height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (4) Prior to commencing any operations in the 2190-2200 MHz frequency band, experimental licensee must notify licensee of DBSD Services Limited. (Call sign E070272, POC/Satellite: S2651. Name: Ms. Allison Minea, Phone Number: 202-293-1216, E-Mail: alison.minea@dish.com). 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 height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (5) Operations in the WCS bands (2305-2320 MHz and 2345-2360 MHz) must comply with the emission limits applicable to those bands. See 47 C.F.R. § 27.53(a).
- (6) Experimental licensee must secure consents from the Advanced Wireless Service licensees in the proposed area prior to accessing to the frequency range from 1995 MHz to 2020 MHz, and from 2110 MHz to 2200 MHz.

Special Conditions:

- (7) Experimental licensee must coordinate with the local Society of Broadcast Engineers frequency coordinator prior to operation in the frequency range from 925 MHz to 960 MHz, and from 2100 MHz to 2110 MHz.
- (8) Experimental licensee must coordinate with the Fixed Microwave Service licensees in the proposed venue in accordance with 47 C.F.R, Part 101.103(d) prior to operation in 925-960 MHz band.
- (9) Prior to commencing any operations in the frequencies below, the experimental licensee must obtain consent from the following within 63 miles of the contours of the testing area:
 - a. 700 MHz Lower Band "A" block licensees (698-704 MHz/728-734 MHz)
 - b. 700 MHz Lower Band "B" block licensees (704-710 MHz/734-740 MHz)
 - c. 700 MHz Lower Band "C" block licensees (710-716 MHz/740-746 MHz)
 - d. 700 MHz Upper Band "C" block (746-757 MHz/776-787 MHz) licensee (Verizon and/or lessees)
 - e. 700 MHz Guard Band licensees (757-758 MHz/787-788 MHz)
 - f. SMR/ESMR licensees (809-824 MHz/854-869 MHz)
 - g. B/ILT licensees (809-824 MHz/854-869 MHz)
 - h. Cellular licensees (824-849 MHz/869-894 MHz)
 - i. SMR licensees (896-901 MHz/935-940 MHz)
 - j. B/ILT licensees (896-901 MHz/935-940 MHz)
 - k. Narrowband PCS licensees (901-902/930-931/940-941 MHz)
 - l. Location & Monitoring Service licensees (902-928 MHz)
 - m. Paging Service licensees in 929 MHz and 931 MHz
 - n. Broadband PCS licensees (1850-1910 MHz/1930-1990 MHz)
 - o. 1910-1915 MHz/1990-1995 MHz Bands licensee
 - p. WCS (2305-2320 MHz/2345-2360 MHz) licensee (AT&T)
- (10) Airborne use of the Cellular frequencies (824-849 MHz/869-894 MHz) is strictly prohibited due to an explicit airborne prohibition in our rules.
- (11) Airborne use of the Part 22 Paging frequencies (929 and 931 MHz) is strictly prohibited due to an explicit airborne prohibition in our rules.
- (12) Centum Research & Technology must notch out the following:
 - a. 933.175 MHz (+/- 100 kHz)
 - b. 942.1750 MHz (+/- 100 kHz)
- (13) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.