

0329-EX-ST-1999

Teligent

Teligent, Inc.
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Vienna, Virginia 22182
voice: 703.762.5183
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Terri B. Natoli
Vice President
Regulatory Affairs and Public Policy

October 20, 1999

VIA UPS DELIVERY

Federal Communications Commission
Experimental Licensing Branch
P.O. Box 358320
Pittsburgh, PA 15251-5320

Re: Request for Special Temporary Authority
Teligent, Inc.
Digital Electronic Message Service
Expedited Treatment Requested

Dear Sir/Madame:

Pursuant to Sections 5.55(d), 5.61 and 5.202(d),(i) of the Commission's Rules, 47 C.F.R. Sections 5.55(d), 5.61 and 5.202(d),(i), Teligent, Inc. and its wholly-owned subsidiaries Teligent License Company I, L.L.C. and Teligent License Company II, L.L.C. (collectively "Teligent"), hereby request Special Temporary Authority ("STA") for a period of six months to test non-type accepted equipment currently used in the LMDS (28 GHz frequency band) to validate radio vendor's performance claims and access the suitability of such equipment to 24 GHz operations. As part of its ongoing efforts to test and operate non type-accepted equipment in the 24 GHz Digital Electronic Message Service ("DEMS") band¹, Teligent is working with various radio equipment vendors to secure a reliable and efficient platform for its 24 GHz operations. The equipment Teligent seeks to test is currently being tested in the 28 GHz band by the product manufacturer. The tests to be conducted would allow Teligent to assess the performance of the vendor's equipment and the equipment's interoperability and suitability for retrofitting to 24 GHz operations compatible with Teligent's planned network.

Grant of this STA serves the public interest by facilitating the continued development of radio technique, equipment, operational data, and engineering data related to DEMS.

¹ Teligent currently holds two experimental STAs to test and operate non type-accepted equipment in the 24 GHz band, Call Sign KS2XAT, File No. 0060-EX-ST-1998 and Call Sign WA9XFS, File No. 0152-EX-ST-1999.

The following is provided pursuant to Section 5.56(b) of the Commission's rules:

1) Address and Points of Communications:

Teligent, Inc.
8065 Leesburg Pike
Suite 400
Vienna, VA 22182
Contact: Terri Natoli

Operations will occur at: 1120 Vermont Ave., NW
Washington, DC
38-54-16.7 N, 077-01-59.3 W

2) Equipment:

Teligent plans to test vendor's prototype equipment.

3) Frequencies Desired:

24.25-24.45 GHz and 25.05-25.25 GHz bands.

4) Transmit Power Output:

The maximum output power of the transmitters is 30dBm, and the maximum EIRP is 47dBm.

5) Type of Emission:

The equipment tested will have a maximum bandwidth of 25 MHz and the following types of emission: QPSK, 16QAM and 64QAM.

6) Overall Height of Antenna Structure Above Ground:

Teligent will transmit to and from receivers located on an existing building located at the above-listed address (1120 Vermont Ave., NW) and new, temporary antenna structures within the immediate vicinity of that building. To the extent necessary, Teligent will obtain the necessary Federal Aviation Administration no-hazard determinations with respect to the temporary sites.

7) Type of Operation to be Conducted:

BER and fade margin test.

8) Purpose of Operation:

Teligent requires special temporary authority in order to test vendor's performance claims for their non-type accepted prototype 28 GHz equipment and to verify interoperability and suitability of equipment for Teligent's 24 GHz network.

Teligent certifies that no party to this application is subject to a denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C § 862.

Teligent respectfully requests grant of this STA as soon as possible so that it may commence testing of this equipment.

If you have any questions regarding this matter, please do not hesitate to contact me at (703) 762-5183.

Sincerely



Terri B. Natoli,
Assistant Secretary and
Vice President, Regulatory Affairs and Public Policy
Teligent, Inc.
Teligent License Company I, L.L.C.
Teligent License Company II, L.L.C.

cc: Carl Huie