

**Teligent, Inc.**

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April 27, 2000

VIA UPS DELIVERY

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

Re: WA9XGZ
 File No. 0329-EX-ST-1999
 Extension of Special Temporary Authority
 Teligent, Inc.
 Digital Electronic Message Service
Expedited Treatment Requested

Dear Sir/Madame:

On October 29, 1999, the Commission granted Special Temporary Authority ("STA") to Teligent Inc. 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.

This STA expires on April 29, 2000. 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 Services Inc., successor in interest to Teligent, Inc.,¹ and its wholly-owned subsidiaries Teligent License Company I, L.L.C. and Teligent License Company II, L.L.C. and its controlling entity Teligent, Inc. (collectively "Teligent"), hereby request an extension of Special Temporary Authority ("STA") to continue testing. As part of its ongoing efforts to test and operate non type-accepted equipment in the 24 GHz Digital Electronic Message Service ("DEMS") band,² 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

¹ Applications are currently pending before the Commission for the *pro forma* transfer of control from Teligent, Inc. to Teligent Services Inc. (FCC File No. 0000075606). Teligent Services Inc. is a new entity that is 100% owned Teligent, Inc.

² 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.

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.

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.

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

Sincerely



Edward B. Krachmer
Assistant Secretary
Teligent, Inc.
Teligent License Company I, L.L.C.
Teligent License Company II, L.L.C.

cc: Carl Huie