

Teligent

Teligent, Inc.
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April 30, 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 type-accepted equipment in the 38 GHz band to validate radio vendor's performance claims and access the suitability of such equipment for retrofitting 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")¹, Teligent is working with various radio equipment vendors to secure a reliable and efficient platform for its 24 GHz operations. Currently, Teligent is working with a vendor which has only one type of 38 GHz point-to-multipoint equipment readily available for testing. The tests to be conducted would allow Teligent to assess the performance range of the vendor's 38 GHz point-to-multipoint equipment and the equipment's interoperability and suitability for retrofitting to 24 GHz operations compatible with the Teligent's planned network.

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

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

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: PB Satellite
Fitzwater Drive
Nokesville, VA
38-41-54 N, 077-34-45 W

2) **Equipment:**

Teligent plans to test up to 6 units of Hughes' AIReach 38 GHz point-to-multipoint microwave equipment (Unit ID No. - HNS PN 1024668).

3) **Frequencies Desired:**

38652.5 - 38697.5 MHz and 39352.5 - 39397.5 MHz.

4) **Transmit Power Output:**

The equipment will operate at a maximum output of 1 Watt.

5) **Type of Emission:**

The equipment tested will have a maximum bandwidth of 12.5 MHz and the following type of emission: 12M5D7W.

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 (Fitzwater Drive) and new, temporary antenna structures within the immediate vicinity of that building. The proposed transmission paths will be less than one-half mile in length. 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 38 GHz type-accepted equipment on a non-commercial basis and to verify interoperability and suitability of equipment for Teligent's 24 GHz network.

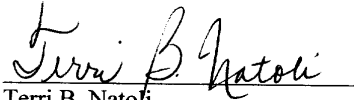
The location which Teligent has identified in item 1) above is currently in an area that is not covered by an existing or pending 38 GHz license. For this reason, Teligent's conduct of this test will not interfere with licensed operations of any 38 GHz licensee. Nevertheless, Teligent will coordinate with, and avoid and eliminate any interference to, future 38 GHz operations by primary licensees on affected frequencies.

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

A handwritten signature in cursive script, reading "Terri B. Natoli", is written over a horizontal line.

Terri B. Natoli,
Assistant Secretary and
Associate General Counsel
Teligent, Inc.
Teligent License Company I, L.L.C.
Teligent License Company II, L.L.C.

cc: Carl Huie
Jay L. Birnbaum, Esq.