



**Teligent, Inc.**  
8065 Leesburg Pike, Suite 400  
Vienna, Virginia 22182  
voice: 703.762.5100  
fax: 703.762.5200  
<http://www.teligent.com>

May 19, 2000

**VIA UPS DELIVERY**

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

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

Dear Sir/Madame:

Pursuant to Sections 5.56, 5.57(a) and 5.202(i) of the Commission's Rules, 47 C.F.R. Sections 5.56, 5.57(a) and 5.202(i), Teligent Services, Inc. ("Teligent"), and its wholly-owned subsidiaries Teligent License Company I, L.L.C. and Teligent License Company II, L.L.C. (collectively "Teligent"), hereby request an additional Special Temporary Authority ("STA") to operate non-type accepted equipment in the 26 GHz band to validate radio vendor's performance claims and access the suitability of such equipment for retrofitting to 24 GHz operations. Teligent International Ventures, Inc., a Teligent subsidiary, is part owner of a venture in Latin America, which was recently granted 26 GHz licenses. Accordingly, to most efficiently obtain equipment in the 26 GHz band, Teligent would like to test the suitability of this equipment for operation internationally. Moreover, as part of its ongoing efforts to test and operate non type-accepted equipment in the 24 GHz Digital Electronic Message Service ("DEMS")<sup>1</sup>, Teligent is working with various radio equipment vendors to secure reliable and efficient platforms for its 24 GHz operations. Currently, Teligent is working with a vendor, which has only one type of 26 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 26 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, operational data, and engineering data related to DEMS.

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<sup>1</sup> 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.

Moreover, as described below, operations will be conducted in a manner, which will not create any harmful interference to existing licensees.

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

**1) Address and Points of Communications:**

Teligent Services, Inc.  
8065 Leesburg Pike  
Suite 400  
Vienna, VA 22182  
Contact: Patrick McFadden

Operations will occur at the  
following Teligent locations:

1120 Vermont Ave, NW  
Washington, DC 20005  
38-54-16.7 N 77-01-59.3 W

1050 17<sup>th</sup> St, NW  
Washington, DC 20005  
38-54-16.7 N 77-01-59.3 W

2121 Wisconsin Ave, NW  
Washington, DC 20007  
38-55-04.6 N 77-04-12.3 W

1401 New York Ave, NW  
Washington, DC 20007  
38-54-0.2 N 77-02 -02.5 W

1401 H St, NW  
Washington, DC 20007  
38-53-57.7 N 77-04-02.6 W

**2) Equipment:**

Teligent plans to test up to 5 units of Alcatel A9900 26 GHz point-to-multipoint microwave equipment (Unit ID No. - 9925RBA001).

**3) Frequencies Desired:**

24549 - 24773 MHz and 25557 – 25781 MHz.

**4) Transmit Power Output:**

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

- 5) **Type of Emission:**  
The equipment tested will have a maximum bandwidth of 28 MHz and the following type of emission: 28M0D7W
- 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 addresses and new, temporary antenna structures within the immediate vicinity of those buildings. 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 tests, installation tests and provisioning tests, link budget tests, interference tests, and frame relay.
- 8) **Purpose of Operation:**  
Teligent requires special temporary authority in order to test vendor's performance claims for 26 GHz non-type-accepted equipment on a non-commercial basis for operation internationally in the 26 GHz band and to verify interoperability and suitability of equipment for Teligent's 24 GHz network.

The locations, which Teligent has identified in item 1) above, are currently in an area that is not covered by an existing or pending 26 GHz license. For this reason, Teligent's conduct of this test will not interfere with licensed operations of any 26 GHz licensee. Nevertheless, Teligent will coordinate with, and avoid and eliminate any interference to, future 26 GHz operations by primary licensees on affected frequencies. Teligent understands that its proposed operations will be on a secondary, non-interference basis and may be terminated by the Commission at any time without advance notice or hearing.

Finally, pursuant to Section 1.2002 of the Commission's Rules, 47 CFR §1.2002, 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.

For all of the foregoing reasons, Teligent respectfully submits that a grant of STA under the instant circumstances will serve the public interest, convenience, and necessity and 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  
Vice President, Regulatory Affairs and Public Policy  
Teligent Services, Inc.  
Teligent License Company I, L.L.C.  
Teligent License Company II, L.L.C.

cc: Carl Huie