

Triton Network Systems, Inc.  
8529 Southpark Circle  
Orlando, Florida 32819

May 15, 2000

Federal Communications Commission  
Experimental Radio Services  
P.O. Box 358320  
Pittsburgh, PA 15251-5320

Re: Triton Network Systems, Inc. ("Triton")  
Request for Special Temporary Authority ("STA")  
Covering Operations In The 26 GHz and 37 GHz Bands

Dear Sir or Madam:

This is a request for STA, submitted pursuant to FCC rule section 5.61, 47 C.F.R. § 5.61 (1998). Triton seeks STA, for a time period not to exceed one hundred and eighty (180) days, to test and operate fixed microwave equipment in the 25.25-27.00 GHz and 38.06 – 38.480 GHz frequency bands on a geographic area basis. Pursuant to rule section 5.61, Triton specifies the following information in support of its request for STA:

(1) Name, address, phone number (also e-mail address and facsimile number, if available) of the applicant.

See above. Triton's points of contact are Michael Clark, Vice President of Engineering, 907-903-0901, and its FCC counsel, Russ Taylor, Gardner, Carton & Douglas, 1301 K Street, NW, Suite 900, Washington, D.C. 20005, (202) 408-7172, [rtaylor@gcd.com](mailto:rtaylor@gcd.com). The FCC may correspond with Triton's counsel via facsimile no. 202-289-1504.

(2) Description of why an STA is needed.

STA is urgently required to permit the applicant to commence testing and operation of fixed wireless microwave transmission equipment *intended for export to Japan*. Triton also intends to perform one or more on-site demonstrations of its equipment and associated technology. Triton previously secured STA (under call sign WA9XGX) for the 37 GHz portion of this request, but now desires to also test in the 26 GHz frequency band.

(3) Description of the operation to be conducted and its purpose.

See above. Triton is leading manufacturer of millimeter wave digital transmission equipment intended for data and telephony providers. See [www.triton-network.com](http://www.triton-network.com).

**(4) Time and dates of proposed operation.**

Triton desires to commence STA operations as soon as possible, and intends to test intermittently for a period of one hundred and eighty (180) days.

**(5) Class(es) of station (fixed, mobile, fixed and mobile) and call sign of station (if applicable).**

Fixed.

**(6) Description of the location(s) and, if applicable, geographical coordinates of the proposed operation.**

Triton seeks authority to operate throughout the Orlando Basic Trading Area ("BTA"), a geographic area method of licensing used in the Local Multipoint Distribution Service ("LMDS").

**(7) Equipment to be used, including name of manufacturer, model and number of units.**

The transmission equipment used in conjunction with Triton's STA operations is experimental and will be manufactured by Triton. Triton may also use other "off-the-shelf" equipment, antennas, cabling, etc.

**(8) Frequency(ies) desired.**

38060 MHz to 38480 MHz – the 37 GHz Band; *and*  
25510 MHz to 26005 MHz, *paired with* 26365 to 26860 MHz – the 26 GHz Band.

**(9) Maximum effective radiated power (ERP) or equivalently isotropically radiated power (EIRP).**

10 W (ERP) for the 37 GHz Band; *and*  
10 W (ERP) for the 26 GHz Band

**(10) Emission designator (see §2.201 of this chapter) or describe emission (bandwidth, modulation, etc.).**

50M0D1D for the 37 GHz Band; *and*  
50M0D1D for the 26 GHz Band

**(11) Overall height of antenna structure above the ground (if greater than 6 meters above the ground or an existing structure, see Part 17 of this Chapter concerning notification to the FAA).**

Triton does not intend to mount its transmission equipment on any antenna structure that is greater than 6 meters above an existing structure. Triton's antenna and mounting structure are less than 3 meters in height.

\* \* \*

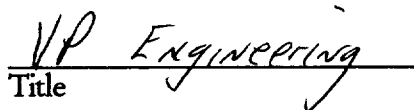
Triton certifies that it is not subject to the denial of federal benefits pursuant to the Anti-Drug Abuse Act of 1988.

Based on the foregoing, Triton respectfully requests that the FCC issue STA for Triton to test and operate its equipment in the 26 GHz and 37 GHz frequency bands.

Respectfully submitted,

**Triton Network Systems, Inc.**

  
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