

STA Application Information

Application Summary

Adtran is interesting in testing radios from CCS that operate in the 28Ghz licensed spectrum with an area of Cummings Research park. The tests will involve equipment located at Adtran's facility, the Hudson-Alpha Institute's facility, and two other locations within the research park.

FCC Registration Number

Adtran FRN: 0005813993

Contact

Jeff Whitmire
901 Explorer Blvd
Huntsville, AL 35806

256-963-8554
Jeff.whitmire@adtran.com

STA Info

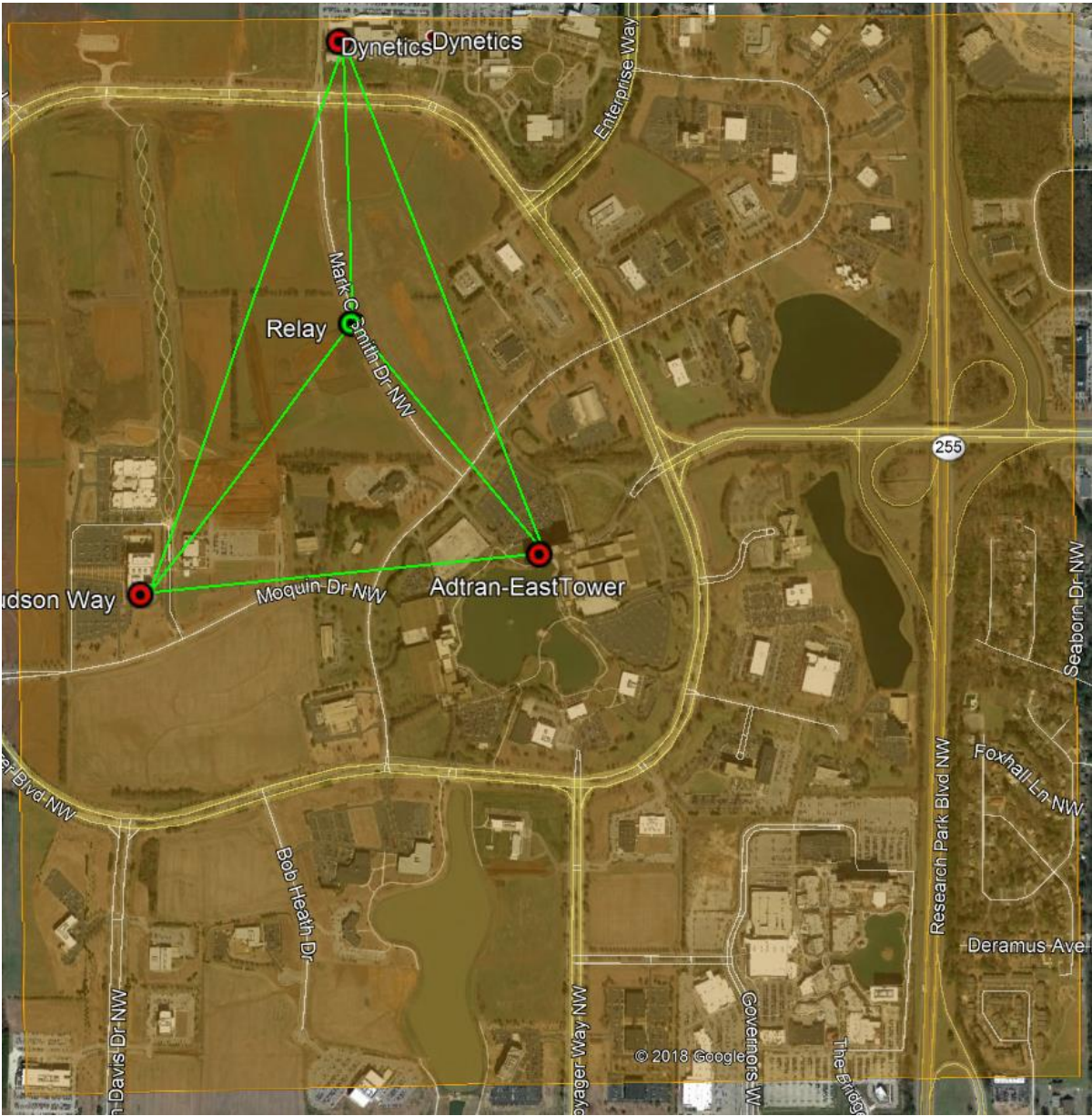
Adtran is the applying company.

Location Info

All radio will be CCS Metnet Standard Nodes. 2ACV4-UMBRA28-001

Location	Lat/Lon	Mount	Azimuth	Height Above Structure	Height AGL
901 Explorer Blvd	34.725739/-86.680539	Roof		< 3m	
601 Genome Way	34.725085 / -86.690650	Roof		< 3m	
1002 Explorer Blvd	34.736287 / -86.683804	Roof		< 3m	
Mark C. Smith Dr.	34.730675/-86.685316	Light Pole			<6m

The requested test area is 2.5km square area around 34.725739/-86.680539.



Radio Info

STA	CCS Metnet Access Point
Emission Designator	100MD7D -100MHz channel bandwidth
Modulation schemes	Multipoint to MultiPoint Integrated Antenna Station modulation rates 1. QPSK 2. 16 QAM 3. 64 QAM 4. 256 QAM
Mean Peak power	25dbM
Frequency Tolerance	0.001%
Base Station Tx Pow	25dBm
Mobile station Tx Power	25dBm

BS EIRP	Standard node = 40dBm
Orientation in Horizontal and Vertical Plane	Standard node- No mechanical tilt, horizontal or vertical.
Vertical Max Beamwidth @ 1/2 power point (horizontal and vertical)	Standard node: 270° horizontal x 20° vertical

Explanation of Proposed Testing

The purpose of the experimental license is to test the self-organizing mesh network equipment in real world environment and to specifically test reliability of the network. The testing is not intended to evaluate the radio frequency characteristics of the nodes, but to test the throughput and stability of the equipment. Experimentation will include functional testing and simulated fail over scenarios. Results of the test will lead to ongoing software improvements. The proposed configuration represents a minimum number of nodes within this geographic area for testing.