Thomas N. Cokenias *EMC &Radio Approvals*
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STA /EXPERIMENTAL LICNESE INFORMATION

Type of Service Requested:

[X] New Experimental License (X)2yr or ( ) 5yr –requires special justification

[ ] New Special Temporary Authority (STA, 6month)

[ ] Modify/Extend existing Experimental License
Call letters or file number: _____

Full Company Name: Fujitsu Network Communications
FRN of Company or Contact:
Company Federal Tax ID or EIN (U.S. based companies):

Full Contact Name:	**Randy Parker**

Contact Mailing Address:	2801 Telecom Parkway Richardson, TX 75082
Contact Telephone Number:	972-479-4155
Contact Fax Number	972-479-3008
Contact email address	randy.parker@us.fujitsu.com

Reason for the Experimental License

Description of Experiment or Research (detailed) –
Fujitsu Network Communications would like to apply for the experimental license of the 3.4-3.7 GHz spectrum used in campus for the following purposes:

- **Product quality and performance testing on Fujitsu Wireless WiMAX products including Base Station and CPE**
- **Customer Demo purpose**
- **Technical training purpose**

Specific Objectives to be covered (detailed) –

- **To ensure our product quality with adequate testing in a real field environment**
- **Showcase our product capability to our customers**
- **Use for external and internal training**

NOTE: The equipment to be used in this experiment will not be available in the United States, it is being developed for sale and for use only outside the USA. The applicant recognizes the frequencies associated with this experiment are not allocated for commercial or non-governmental use in the United States.

List of attached documents, if any: None

Transmitter Equipment and Station Details

Base Station Equipment Mfr and P/N:	Mfr: Fujitsu Models: TBD

Number of Fixed Units:				2
Location of Fixed Antennas North 32 59 15 West 96 39 24				1) 2801 Telecom Parkway, Richardson, TX. 75082
				2)
				3)
NAD 27	**XX**	**NAD 83**		Etc)
X				

(X) Mobile or (X) Fixed Subscriber Station Equipment Mfr and P/N:	Mfr: Fujitsu Models: TBD

Number of Mobile Units	3
Radius of Mobile or Subscriber Unit location from Fixed station(s) **25 km**	1)
	2)
	3)
	Etc)

Base Station TX Parameters

Station Number	LOW (MHz)	HIGH(MHz)	% Tolerance
1)HiperMAX-2 3.6-3.7GHz TDD	3600	3650	+/-8ppm
2) HiperMAX-2 3.4-3.5GHz TDD	3400	3500	+/-8ppm

Station Antenna Details	Type (e.g, monopole, yagi, etc.)	Gain (dB)	Beam Width (H)	Beam Width (V)	HAAT (meters)
1)HiperMAX-2 3.6-3.7GHz TDD	Sector Antenna	10 dBi	60° (60 deg) 120° (120 deg)	8° (60, 120 deg)	18
2)HiperMAX-2 3.4-3.5GHz TDD	Sector Antenna	10 dBi	60° (60 deg) 120° (120 deg)	8° (60, 120 deg)	18

Station Number	Modulation	Emission Designator	Bandwidth (MHz)	Power Out dBm
1)HiperMAX-2 3.6-3.7GHz TDD	Adaptive with 16, 64QAM, QPSK, BPSK	10M0D7W	10.7 Mbps DL 9.7 Mbps UL	35
2)HiperMAX-2 3.4-3.5GHz TDD	Adaptive with 16, 64QAM, QPSK, BPSK	10M0D7W	10.7 Mbps DL 9.7 Mbps UL	35

Note: The antennas are located in a large industrial park occupied by Fujitsu Network Communications. The land is fairly flat and is free of tall obstructions that might shield the antennas from view

Mobile/Fixed CPE Station TX Parameters

Station Number	LOW (MHz)	HIGH(MHz)	% Tolerance
1) ProST 3.6-3.8GHz TDD	3600	3800	+/-8ppm
2) ProST-WiFi 3.6-3.8GHz TDD	3600	3800	+/-8ppm
3) EasyST 3.6-3.8GHz TDD	3600	3800	+/-8ppm

Station Antenna Details	Type (e.g, monopole, yagi, etc.)	Gain (dB)	Beam Width (H)	Beam Width (V)	HAAT (meters)
1) ProST 3.6-3.8GHz TDD	Integrated or external	17 dBi typical (integrated)	10°	18°	5
2) ProST-WiFi 3.6-3.8GHz TDD	Integrated or external	17 dBi typical (integrated)	10°	18°	5
3) EasyST 3.6-3.8GHz TDD	Clip-on Cylinder or window	6-7 dBi typical	90°	25°	5

Station Number	Modulation	Emission Designator	Bandwidth (MHz)	Power Out dBm
3) EasyST, indoor, TDD	Adaptive with 16, 64QAM, QPSK, BPSK	10M0D7W	18 Mbps at 5 MHz channel 37 Mbps at 10 MHz	17dBm at 64QAM
1) ProST 3.6-3.8GHz TDD	Adaptive with 16, 64QAM, QPSK, BPSK	5M00D7W	18 Mbps at 5 MHz channel 13.1 Mbps at 3.5 MHz 6.5 Mbps at 1.75 MHz	20dBm at 64 QAM
2) ProST-WiFi 3.6-3.8GHz TDD	Adaptive with 16, 64QAM, QPSK, BPSK	5M00D7W	18 Mbps at 5 MHz channel 13.1 Mbps at 3.5 MHz 6.5 Mbps at 1.75 MHz	20dBm at 64 QAM
3) EasyST 3.6-3.8GHz TDD	Adaptive with 16, 64QAM, QPSK, BPSK	5M00D7W	18 Mbps at 5 MHz channel 13.1 Mbps at 3.5 MHz 6.5 Mbps at 1.75 MHz	20dBm at 64 QAM