

STA /EXPERIMENTAL LICNESE INFORMATION

Type of Service Requested:

☒ 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:	William Yue
Contact Mailing Address:	2801 Telecom Parkway Richardson, TX 75082
Contact Telephone Number:	972-479-4155
Contact Fax Number	972-479-3008
Contact email address	william.yue@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 3.65 GHz & 4.7 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**

List of attached documents, if any

Will confidentiality be requested per section 0.459 of FCC Rules for any attached document, transmitting equipment, or other company sensitive equipment? If yes, please describe and provide justification

STA Information

Event Name	
STA Start / End Dates : (including setup/test)	

Transmitter Equipment and Station Details

Base Station Equipment Mfr and P/N:	Need Kai's input
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Number of Fixed Units:				
Location of Fixed Antennas (Lat / Lon, Street Address)				1) 2801 Telecom Parkway, Richardson, TX. 75082
				2)
				3)
<u>NAD 27</u> <u>X</u>	XX	<u>NAD 83</u>		Etc)

() Mobile or () Fixed Subscriber Station Equipment Mfr and P/N:	
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Number of Mobile Units				
Radius of Mobile or Subscriber Unit location from Fixed station(s) (specify km)				1)
				2)
				3)
				Etc)

Base Station TX Parameters

Station Number	LOW (MHz)	HIGH(MHz)	% Tolerance
1) HiperMAX-2 4.9-5.0GHz TDD	4900	5000	+/-8ppm
2) HiperMAX-2 3.6-3.7GHz TDD	3600	3700	+/-8ppm
3) HiperMAX-2 3.4-3.5GHz TDD	3400	3500	+/-8ppm
Etc)			

Station Antenna Details	Type (e.g, monopole, yagi, etc.)	Gain (dB)	Beam Width (H)	Beam Width (V)	HAAT (meters)
1) HiperMAX-2 4.9-5.0GHz TDD	Sector Antenna	10 dBi	62° (60 deg) 120° (120 deg)	6.5° (60, 120 deg)	18
2) HiperMAX-2 3.6-3.7GHz TDD	Sector Antenna	10 dBi	60° (60 deg) 120° (120 deg)	8° (60, 120 deg)	18
3) HiperMAX-2 3.4-3.5GHz TDD	Sector Antenna	10 dBi	60° (60 deg) 120° (120 deg)	8° (60, 120 deg)	18
Etc)					

Station Number	Modulation	Emission Designator	Bandwidth (MHz)	Power Out dBm
1) HiperMAX-2 4.9-5.0GHz TDD	Adaptive with 16, 64QAM, QPSK, BPSK	10M0D7W	10.7 Mbps DL 9.7 Mbps UL	24

2) HiperMAX-2 3.6-3.7GHz TDD	Adaptive with 16, 64QAM, QPSK, BPSK	10M0D7W	10.7 Mbps DL 9.7 Mbps UL	35
3) HiperMAX-2 3.4-3.5GHz TDD	Adaptive with 16, 64QAM, QPSK, BPSK	10M0D7W	10.7 Mbps DL 9.7 Mbps UL	35
Etc)				

Mobile/Fixed CPE Station TX Parameters

Station Number	LOW (MHz)	HIGH(MHz)	% Tolerance
1) ProST 4.9-5.0GHz TDD	4900	5000	+/-8ppm
2) ProST-WiFi 4.9-5.0GHz TDD	4900	5000	+/-8ppm
3) EasyST 4.9-5.0GHz, indoor TDD	4900	5000	+/-8ppm
4) ProST 3.6-3.8GHz TDD	3600	3800	+/-8ppm
5) ProST-WiFi 3.6-3.8GHz TDD	3600	3800	+/-8ppm
6) EasyST 3.6-3.8GHz TDD	3600	3800	+/-8ppm
Etc)			

Station Antenna Details	Type (e.g, monopole, yagi, etc.)	Gain (dB)	Beam Width (H)	Beam Width (V)	HAAT (meters)
1) ProST 4.9-5.0GHz TDD	Integrated or external	17 dBi typical (integrated)	10°	18°	5
2) ProST-WiFi 4.9-5.0GHz TDD	Integrated or external	17 dBi typical (integrated)	10°	18°	5
3) EasyST 4.9-5.0, indoor, TDD	Clip-on Cylinder or window	6-7 dBi typical	90°	25°	5
4) ProST 3.6-3.8GHz TDD	Integrated or external	17 dBi typical (integrated)	10°	18°	5
5) ProST-WiFi 3.6-3.8GHz TDD	Integrated or external	17 dBi typical (integrated)	10°	18°	5
6) EasyST 3.6-	Clip-on Cylinder or	6-7 dBi	90°	25°	5

3.8GHz TDD	window	typical			
Etc)					

Station Number	Modulation	Emission Designator	Bandwidth (MHz)	Power Out dBm
1) ProST 4.9GHz TDD	Adaptive with 16, 64QAM, QPSK, BPSK	10M0D7W	18 Mbps at 5 MHz channel 37 Mbps at 10 MHz	17dbm at 64QAM
2) ProST-WiFi 4.9GHz TDD	Adaptive with 16, 64QAM, QPSK, BPSK	10M0D7W	18 Mbps at 5 MHz channel 37 Mbps at 10 MHz	17dbm at 64QAM
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
4) 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
5) 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
6) 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
Etc)				