

STA APPLICATION

Date: 10/16/2006

File Number:

Full Company Name: Intel Corporation

FRN of Company or Contact: 0009362237

Please complete all sections below with entirety.

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Event Name	IEEE Communications Expo 2006 (Globecom)
STA Start / End Dates : (including setup/test)	26-Nov-06 thru 2-Dec-06

Description of Experiment or Research – Which Needs to Include the Following

Specific Objectives to be covered (detailed): Demonstrate new WiMAX (802.16-2004) technologies to attendees of IEEE Globecom 2006. This will be done indoors at the Fairmont Hotel, 950 Mason Street, San Francisco, CA.
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Description of equipment (detailed):

WiMAX subscriber stations manufactured by Gemtek and Intel will be used. Base station software will be used on three of the subscriber stations to emulate the basic MAC functionality of a base station with no change to output power.

Transmitter Equipment and Station Details

Equipment Manuf / P/N:	Gemtek WIXD-101
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Number of Fixed Units:				8
Location of Fixed Antennas (Lat / Lon, Street Address)				1. Fairmont Hotel
				2. 950 Mason Street
				3. San Francisco, CA 94108
<u>NAD 27</u>		<u>NAD 83</u>	<u>X</u>	4. 37.79256 degrees N
				5. 122.41068 degrees W

Number of Mobile Units		0
Radius of Mobile Unit location from Fixed station(s) (specify km)		1.
		2.
		3.
		4.
		5.

Frequency Range / Tolerance	HIGH (MHz)	LOW(MHz)	% Tolerance
Station Number	1. 3550	3450	0.004
	2. 3550	3450	0.004
	3. 3550	3450	0.004
	4. 3550	3450	0.004
	5. 3550	3450	0.004
	6. 3550	3450	0.004
	7. 3550	3450	0.004
	8. 3550	3450	0.004

Transmitter Parameters	Modulation	Emission Designator	Bandwidth	Power Out dBm
Station Number	1. 16-QAM	3M5W1D	3.5MHz	+18dBm max
	2. 16-QAM	3M5W1D	3.5MHz	+18dBm max
	3. 16-QAM	3M5W1D	3.5MHz	+18dBm max
	4. 16-QAM	3M5W1D	3.5MHz	+18dBm max
	5. 16-QAM	3M5W1D	3.5MHz	+18dBm max
	6. 16-QAM	3M5W1D	3.5MHz	+18dBm max
	7. QPSK	3M5W1D	3.5MHz	+18dBm max
	8. QPSK	3M5W1D	3.5MHz	+18dBm max

Antenna Details	Type	Gain (dB)	Beam Width (H)	Beam Width (V)	HAAT (meters)
Station Number	1. Directional, flat panel	15dBi	22°	22°	10 - Indoor
	2. Directional, flat panel	15dBi	22°	22°	10 – Indoor
	3. Directional, flat panel	15dBi	22°	22°	10 – Indoor
	4. Directional, flat panel	15dBi	22°	22°	10 – Indoor
	5. Directional, flat panel	15dBi	22°	22°	10 – Indoor
	6. Omnidirectional	2dBi	90°	90°	10 – Indoor
	7. Directional, flat panel	15dBi	22°	22°	10 – Indoor
	8. Directional, flat panel	15dBi	22°	22°	10 - Indoor