

STA APPLICATION

Date: 8/7/2006

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	Intel Developer Forum
STA Start / End Dates : (including setup/test)	04-Sept-06 thru 31-Sept-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 in a keynote by executive Paul Otellini to the attendees of the Intel Developer Forum. This will be done indoors at the Moscone West, 3rd Floor Keynote Room and 1st floor Technology Showcase where various kiosks will represent all Intel technologies, WiMax being one of them. This will also be done across the street at the San Francisco Marriott, basement floor for the international press.

Description of equipment (detailed):

WiMAX subscriber stations manufactured by Gemtek, Alvarion 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.

Base station have small Omni-directional antenna on it and talk directly with a Intel concept laptop.

Transmitter Equipment and Station Details

Equipment Manuf / P/N:	Gemtek WIXD-101 Alvarion BreezeMax BTS /CPE
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Number of Fixed Units:				3
Location of Fixed Antennas (Lat / Lon, Street Address)				1. Moscone West Convention Center
				2. 800 Howard St. (Between 3 rd and 4 th Street)
				3. San Francisco, CA 94103
<u>NAD 27</u>		<u>NAD 83</u>	<u>X</u>	4. 37 degrees, 46'56.43" N
				5. 122 degrees, 24'14.93" W
Number of Fixed Units:				3
Location of Fixed Antennas (Lat / Lon, Street Address)				1. San Francisco Marriott
				2. 55 Fourth Street
				3. San Francisco, CA 94103
<u>NAD 27</u>		<u>NAD 83</u>	<u>X</u>	4. 37 degrees, 47'06.31" N
				5. 122 degrees, 24'17.17" W

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

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. 3450	3400	0.004

	5. 3450	3400	0.004
	6. 3450	3400	0.004
	7. 3450	3400	0.004
	8. 3450	3400	0.004

Transmitter Parameters	Modulation	Emission Designator	Bandwidth	Power Out dBm
Station Number	1. 64-QAM	3M5W1D	3.5MHz	+18dBm max
	2. 64-QAM	3M5W1D	3.5MHz	+18dBm max
	3. 64--QAM	3M5W1D	3.5MHz	+18dBm max
	4. 64--QAM	3M5W1D	3.5MHz	+18dBm max
	5. 64-QAM	3M5W1D	3.5MHz	+18dBm max
	6. 64-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. Omni directional	5dBi	22□	22□	10 - Indoor
	2. Omni directional	5dBi	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. Directional, flat panel	15dBi	22□	22□	10 – Indoor
	7. Directional, flat panel	15dBi	22□	22□	10 – Indoor
	8. Directional, flat panel	15dBi	22□	22□	10 - Indoor