

STA APPLICATION

Date: 7/27/05

File Number:

Full Company Name: Intel Corporation

FRN of Company or Contact: 0009362237

Please complete all sections below with entirety.

Full Contact Name:	John Hammond
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Event Name	Intel's Developer Forum (IDF)
STA Start / End Dates : (including setup/test)	<u>August 14th to September 1st 2005</u>

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

Specific Objectives to be covered (detailed):
Intel will be positioning its technology leadership by providing a WiMAX demonstration at the Intel Developers Forum. This demonstration will be using the newly introduced ProWireless 5116 mac/phy silicon device being used by both Redline Communication and Alvarion with an interactive gaming experience. Demonstration will be conducted indoors only with 100 meter of unit separation.
Description of equipment (detailed):
Two platforms (Redline and Alvarion) will be used for the demonstration in a trade show like environment. Both reference platforms will be based on the 5116 Intel MAC/PHY device and will utilize the operating in the 3.5 GHz band.

Transmitter Equipment and Station Details

Equipment Manuf / P/N:	Redline RedMAX Base Station (AN-100U) and RedMAX Subscriber Unit (SU-O) Alvarion BreezeMAX Base Station and Alvarion BreezeMAX Subscriber Unit
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Number of Fixed Units:	2		
Location of Fixed Antennas (Lat / Lon, Street Address)	1.	Moscone Convention Center	
	2.	40 Howard Street	
	3.	San Francisco, CA.	
<u>NAD 27</u>		<u>NAD 83</u>	<u>X</u>
	4.	NL 37-47-03	
	5.	WL 122-24-05	

Number of Mobile Units	2		
Radius of Mobile Unit location from Fixed station(s) (specify km)	1.	Max. of 100 meters from fixed Units	
	2.	Max. of 100 meters from fixed Units	
	3.		
	4.		
	5.		

TX Frequency Range / Tolerance	HIGH (MHz)	LOW(MHz)	% Tolerance
Station Number	1. 3485.5	3492.5	0.004
	2. 3485.5	3492.5	0.004
	3. 3475.0	3485.5	0.004
	4. 3575.0	3585.5	0.004
	5.		

Transmitter Parameters	Modulation	Emission Designator	Bandwidth	Power Out dBm
Station Number	1.64 QAM	3M50W1D	3.5 MHz	+23
	2.64QAM	3M50W1D	3.5 MHz	+20
	3. 64QAM	7M00W1D	7.0 MHz	+23
	4. 64QAM	7M00W1D	7.0 MHz	+20
	5.			

Antenna Details	Type	Gain (dB)	Beam Width (H)	Beam Width (V)	HAAT (meters)	AMSL (meters)
Station Number	1.Sector Panel	17	90°	6°	10	20
	2. Integrated Patch	15	30°	6°	10	20

	3.Sector Panel	17	90°	6°	10	20
	4.Integrated	15	30°	6°	10	20
	5.					