Thomas N. Cokenias EMC & Radio Approvals

Test & Consulting Services for Commercial, Military, International Compliance P.O. Box 1086

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Federal Communications Commission Office of Engineering and Technology Experimental Licensing Branch 445 12TH ST SW Washington DC 20554 13 August 2012

Re: Intel Corp. STA application for 10-13 September 2012 in San Francisco, CA

STA Confirmation Number: EL376267 STA File Number: 0645-EX-ST-2012 Date of Submission: August 13, 2012

Hello,

On behalf of my client Intel Corp. I have submitted an application for an STA for an experiment that will be run indoors at the Moscone Convention Center in San Francisco. The details of the experiment have been submitted in a separate attachment. Briefly, fixed and mobile radios in the UMTS Band 1 will be communicating at separation distances of 20 m or less.

The UMTS Band 1 uplink frequencies are 1920-1980 MHz, which overlap with UMTS Band 2 downlink frequencies. Sprint holds a UMTS license in the San Francisco area and Intel is currently working with Sprint to have permission to operate the experiment in coordination with Sprint's use of the frequencies.

If you have questions or need further information, please contact me.

Sincerely,

Thomas N. Cokenias Agent for Intel Corp.

J.M. When

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STA APPLICATION

Date: 8/13/2012

File Number: 0645-EX-ST-2012

Full Company Name: Intel Corporation

FRN of Company or Contact: 0009362237

Please complete all sections below with entirety.

Full Contact Name:	John Hammond		
Contact Mailing Address:	2111 NE 25 th JF2-15		
	Hillsboro, Oregon 97124		
Event Name	Intel Developer Forum (IDF)		
STA Start / End Dates :	10-13 September 2012		
(including setup/test)			

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

Specific Objectives to be covered (detailed):

Intel will be demonstrating new technology, Edge Cloud applications for Smart Cells, showing the benefits of caching at the edge of the network for enhanced user experience. The demonstration will take place at the Intel Developers Forum held in San Francisco, CA, at the Moscone Visitors Center, between 10-13 September 2012

Description of equipment:

A small cell base station with a fully integrated cloud computing platform. Smart cells combine a cellular/Wi-Fi small cell with a powerful communications-tuned computing platform based on Intel® architecture. The two main hardware platforms contained in the Base Station are an Intel Architecture Processor and a Ubiquisys G3 WCDMA Radio module.

Fixed transmitter:

Smart cell with Ubiquisys G3 Radio Module for W-CDMA.

Mobile transmitter: Lava XOLO smart phone based on Intel Medfield

Reference Design

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Transmitter Equipment and Station Details

Equipment Mfr / P/N:	2- Lava XOLO smart phones (mobile)		
	S/N#: FC12240005T, FC1223003EU		
	2- Smart Cell with Ubiquisys G3 W-CDMA Radio		
	(Fixed)		

Number of Fixed Units:		:	2	
Location o	f Fixed Antenna	ıs	Moscone Convention Center	
(Lat/Lon	, Street Address)		40 Howard Street	
			San Francisco, CA.	
NAD 27	NAD 83	X	NL 37-47-03	
		_	WL 122-24-05	

Number of Mobile Units	2	
	1. Max. of 20 meters from fixed Units	
Radius of Mobile Unit	2. Max. of 20 meters from fixed Units	
location from Fixed station(s)		
(specify km)		

TX Frequency Range /	HIGH (MHz)	LOW(MHz)	Tolerance
Tolerance			
Fixed (DL)	2110	2170	0.1ppm
Mobile (UL)	1920	1980	0.1ppm

Transmitter Parameters	Modulation	Emission	Bandwidth	Power Out
		Designator		dBm
Fixed	W-CDMA	4M60F9W	4.6 MHz	+10
Mobile	W-CDMA	4M60F9W	4.6 MHz	+10

Antenna Details	Туре	Gain (dBi)	HAAT (meters)	AMSL (meters)
Fixed	omni	2	10 (indoors	20 (indoors)
Mobile	omni	2	10 (indoors)	20 (indoors)