



30 May-2016

**Introduction**

Intel is a world leader in computing innovation. The company designs and builds the essential technologies that serve as the foundation for the world's computing devices. Intel also offers a portfolio of wireless communications solutions to connect a broad range of devices. Hardware and software products by Intel and its subsidiaries power the majority of the world's data centers, connect hundreds of millions of cellular handsets and help secure and protect computers, mobile devices and corporate and government IT systems. Intel technologies are also inside intelligent systems, such as automobiles, automated factories and medical devices.

**Demonstration to be Performed:**

An Experimental Special Temporary Authority is requested for an indoor demonstration of 2 types of wireless devices. The proposed experiment will be in rooms inside Moscone West from 7 August through 20 August 2016.

**Location:**

Moscone West  
800 Howard St,  
San Francisco, CA 94107, USA

37°46'59"N  
122°24'15"W  
10 meters AMSL

**Transmitter & Antenna Parameters:**

The demonstration of Intel's advanced technologies will consist of two demonstrations.

1. 28 GHz Mobile Trial Platform: 10 mobile units.
2. 4 GHz Massive MIMO: 36 radios in a rack, non-phased, each consisting of 2 independent transceivers.

**Transmitter & Antenna Parameters:**

Site Details					Antenna					Transmitter Emission		
Location	Station Type	Latitude (dd mm ss.ss)	Longitude (dd mm ss.ss)	AGL (m)	Type	3dB Beam Width	H-Gain (dBi)	V-Gain (dBi)	ERP (mW)	Frequency (GHz)	Bandwidth (MHz)	Emission Designator
Indoors Moscone West, within a 100 meter radius of center coordinates	MO – to – MO	37°46'59"N	122°24'15"W	2.5 - 25	Omni	n/a	5	5	193	3.4-3.7	20	20M0W7W
	MO – to – MO	37°46'59"N	122°24'15"W	2.5 - 25	Omni	n/a	3.5 to 14 dB maximum with beam-forming	3.5 to 14 dB maximum with beam-forming	2512	27.5 - 28.5	200	200M0W7W

