

Narrative Statement:

By this application, Motorola, Inc. ("Motorola"), respectfully requests a special temporary authority ("STA"), beginning April 1, 2007 and ending April 4, 2007, to demonstrate prototype equipment developed for export only operating in the 3400–3600 MHz band. The following information is provided in support of this request:

Purpose of Operation:

Under the requested experimental authority, Motorola proposes to demonstrate equipment designed for export only at the Armed Forces Communications and Electronics Association (AFCEA) Security Solutions 2007 Conference in Tampa, Florida. The demonstration is for next generation tactical communications interoperability.

Proposed Locations:

Motorola proposes to place one experimental fixed base station and one fixed subscriber station at the Tampa Marriot Waterside, 700 S. Florida Avenue, Tampa, Florida 33602. The latitude / longitude is N27 56' 27.6" W082 27' 14.4" (NAD83). The devices will be operated indoors within the conference floor area.

Technical Specifications:

Application Type/Classification:	XE (Experimental Export Only)
Frequency Band:	3400–3600 MHz
Modulation:	OFDM with 64-QAM or 16-QAM modulation
Bandwidth / Emissions Designators:	7M00VXDET
Antenna Data / Fixed Base Station:	
Power Output (TPO):	13 dBm (20 mW)
Vertical Beamwidth:	24 degrees (-3dB points)
Horizontal Beam Width:	24 degrees (-3dB points)
Gain:	17.0 dBi
EIRP:	30 dBm (1 W)
ERP	27.85 dBm (609.5 mW)
Polarization:	Vertical
Antenna Data / Fixed Subscriber Unit:	
Power Output (TPO):	13 dBm (20 mW)
Vertical Beamwidth:	24 degrees (-3dB points)
Horizontal Beam Width:	24 degrees (-3dB points)
Gain:	17.0 dBi
EIRP:	30 dBm (1 W)
ERP	27.85 dBm (609.5 mW)
Polarization:	Vertical

Equipment to be used:

Motorola proposes to employ only a limited number of units. The base station is one Motorola Canopy WiMAX Access Point 3500AP, the subscriber station is one Motorola Canopy Subscriber Module 3500SM. It will also limit the power, area of operation, and transmitting times of these units to the minimum necessary to demonstrate the equipment.

Antenna / Antenna Structure Heights:

The antennas to be deployed under this authority will not extend more than four meters above the ground and will be mounted indoors. The direction of the horizontal direction of the antennas is not determined as of yet since the conference has not been setup.

Restrictions on Operation:

Motorola does not propose to market, sell, or lease prototype equipment to end users or conduct a market study in conjunction with this demonstration. Moreover, no fees will be charged to entities using the equipment during this demonstration. After the demonstration ceases, Motorola will recall and recover all devices that do not comply with FCC regulations. If any different treatment becomes necessary during the course of its experimentation, Motorola will seek separate and additional authority from the agency.

Motorola also recognizes that the operation of any unapproved devices must not cause harmful interference to authorized facilities. It does not anticipate that such interference will occur, as the prototype equipment will operate at low power and at an indoor location. Should interference occur, however, Motorola will immediately take reasonable steps to resolve the interference, including if necessary discontinuing operation. To that end, Motorola would advise entities using the equipment that permission to operate the equipment has been granted under experimental authority issued to Motorola, is strictly temporary and may be canceled at any time. Specifically, Motorola proposes to label the equipment or user information conspicuously as follows:

FCC STATEMENT

Permission to operate this device has been granted under experimental authority issued by the Federal Communications Commission to Motorola, Inc., is strictly temporary, and may be canceled at any time. This device has not been authorized as required by the rules of the Federal Communications Commission.

This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained. Thus, the user does not hold a property right in the device and may be required to return the device.

Motorola is asking for authority to select a channel out of the capable range of frequencies the equipment is capable of, we will also monitor the spectrum for other radio activities and, will avoid any channels to which we observe channels in use, during the demonstration we will use only one channel.

In addition, the equipment will be set to the RF power to the minimum required to support communications on the channel for the particular path involved, the minimum transmit power of the equipment is 0 dBm (1 mW) and corresponds to an EIRP of 17 dBm (50 mW).

Public Interest:

Motorola submits that issuance of an STA is in the public interest, convenience, and necessity, as it will permit Motorola to develop innovative equipment that will accommodate the communications needs of users.

Contact Information:

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