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May 06, 2008

Holland & Knight LLP
2099 Pennsylvania Ave., NW, Suite 100
Washington, DC 20006

Attention: David A. O'Connor

Subject: Justification for FCC License Request for J.U.I.C.E. Participation

Enclosure: (1) J.U.I.C.E. Quad Chart
(2) Net Diagram

Dear David O'Connor,

Harris Corporation, RF Communications Division respectfully requests an FCC License to participate in the Joint User's Interoperability Experiment 2008. This event is being held at Fort Monmouth, NJ from 27 May – 19 June.

Harris' participation in this exercise is the first step in the development of a hand held data radio to meet the mission of 2nd Brigade, 25th Infantry Division, U.S. Army (2/25th ID). 2/25th ID is currently deployed in support of Operation Iraqi Freedom. The Project Manager for Warfighter Information Network – Tactical (PM-WINT) has recently purchased and fielded the Harris RF-7800W-OU440 radio under the CHS-3 Common Hardware/ Software III contract, # DAAH01-03-D-0029 . This radio is a WiMax product being used by the 2/25th ID in support of their mission in Iraq. The J.U.I.C.E experiment is key to developing the next level of their requirements based on an operational needs statement submitted by the 25th ID entitled: ECOP 07-3154 Harris Wireless SIPRNET Connectivity to the Company Level. This requirement involves sending the tactical IP data down to the soldier level in the form of a hand held.

Our government sponsor for participation in this exercise is:

Jason Weag
PM WINT, PD TNAC2
732 532 9048 (w)
848 218 8215 (c)
992 9048 (dsn)
jason.weag@us.army.mil

Our FCC license is requesting frequencies to support the Base Station and the WiMax module for the hand held device for this development at J.U.I.C.E.

If you have any questions, please contact me at 585-241-8489, or via email at wseiss@harris.com.

Respectfully,

Bill Seiss
Program Manager

IEEE 802.16 WiMAX COTS System

Broadband Wireless IP Capability

JUICE 2008 (As of: Feb 25, 2008)

Description:

Rapidly deployable secure broadband IP connectivity from national level assets to handheld mobile devices. The demonstration shows multi-megabit EoIP interoperability based on IEEE 802.16 COTS technology. A network connection will be established through multiple layers of interoperable wireless communications devices including a mobile subscriber, base station, and backhaul radios using the RF-7800W. Interoperability with the Falcon-III Manpack radio running the ANW2 waveform will also be demonstrated as well as the capability to connect to a RED network using Secnet.

POC:

Jason Weag 848-218-8215 William Seiss, 585-241-8489

Projected Participation Dates:

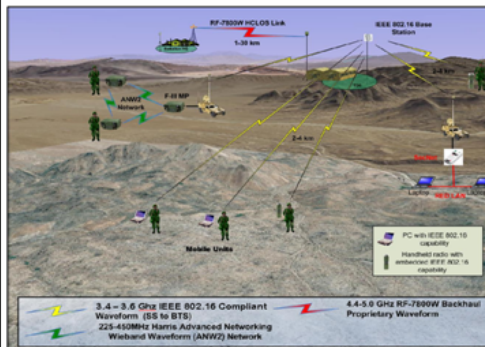
2 - 19 June 2008 (Setup 27 – 30 May 2008)

Results/Observations

• This will be a COTS IEEE 802.16 Demo. Harris has measured the following results for an existing IEEE 802.16 system. It is possible that these data rates may be exceeded by future products.

Distance (miles / km)	SS Module	Up Link				Down Link			
		Data Rate (Mbps)	BS C/N	SS Tx Pwr (dBm)	BS RSSI Ref (-85dBm)	Data Rate (Mbps)	SS C/N	BS Tx Pwr (dBm)	SS RSSI
1.0 / 1.6	PCMCIA	4	25.1	16	-78	4.8	28.5	23	-62
	USB	4	24.3	15	-77	4.1 ~ 4.8	26.5	23	-66
1.5 / 2.4	PCMCIA	3.5 ~ 4	24	25 ~ 30	-78	4.8	26.5	23	-70
	USB	3.6	19.8	24	-79	3.3	20.5	23	-76
1.82 / 2.9	PCMCIA	1.8	16.5	30	-87	3.3	18.5	23	-79
	USB	2.7	17.6	30	-85	2.1	12.5	23	-82

Test Configuration:



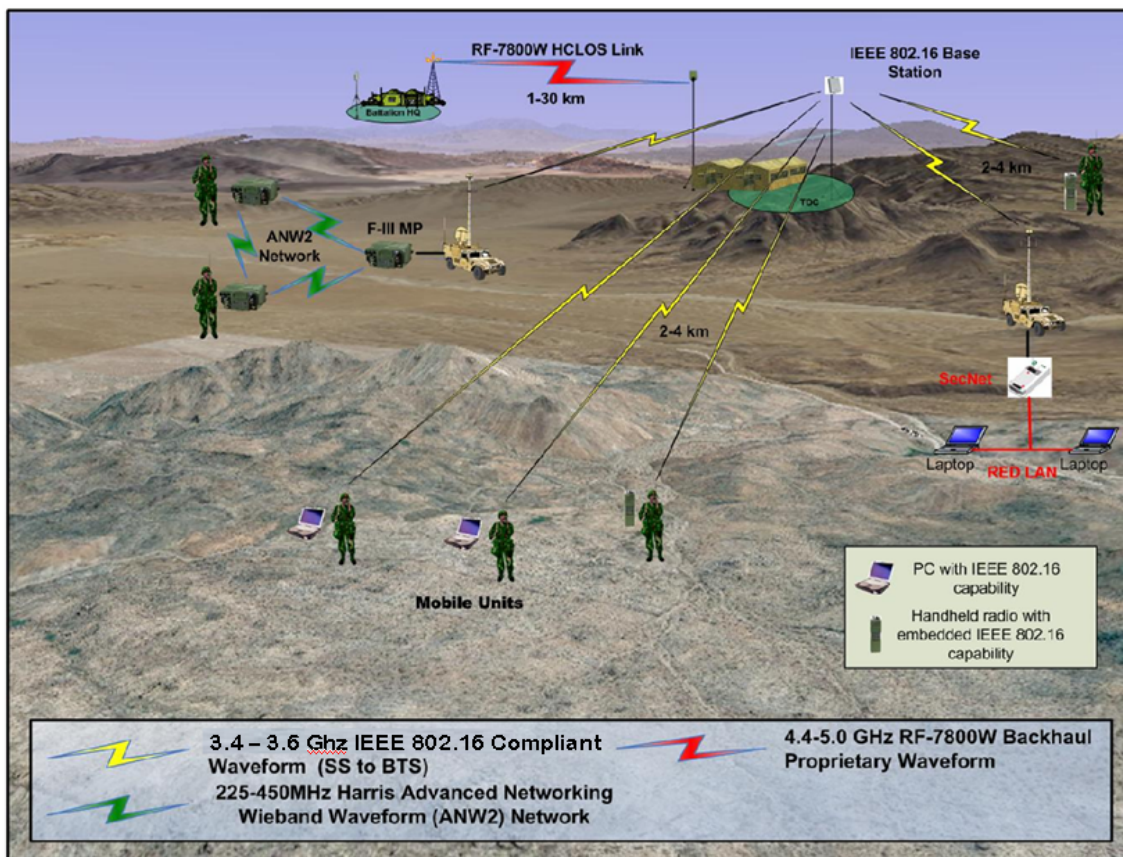
Expected Benefit:

- Rapidly deployable, low cost wideband networking
- Handheld access to national level networks
- A wide variety of IP services including VoIP, web, streaming video, email, etc.
- Interoperability with commercial devices
- Open architecture software defined base station
- Full integration with Falcon-III Manpack running ANW2 waveform and Secnet supporting RED LAN

Recommended Next Step:

- Provide equipment list and technology overview.

ACTUAL DISTANCES AT FORT MONMOUTH WILL BE LESS THAN 1KM



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