

HARRIS CORPORATION
EXPERIMENTAL SPECIAL TEMPORARY
AUTHORITY APPLICATION
2.4 GHz EXPERIMENT
CAMP ROBERTS, CALIFORNIA
JUNE 2005

DESCRIPTION OF EXPERIMENT

Consolidated Response to Questions 4 and 5.

Harris Corporation (Harris) is requesting Special Temporary Authority (STA) to permit operation of the equipment specified in section 8 of this application for proof of concept purposes. This equipment is being tested pursuant to a contract with the United States Armed Forces (Contract Number F33657-03-C4317, ASC/RA, Wright-Patterson AFB OH). The tests will be conducted on behalf of the military to determine the extended capabilities of 802.11 wireless LAN devices.

The combination of an 802.11 device with the proposed antennas would be an experimental use of the equipment.

The technology being tested does not consist of commercial off-the-shelf (COTS) devices. The demonstration will include transmission of classified data that requires NSA Type 1 encryption. This level of protection is only available in the SecNet-11 card, which utilizes the 802.11-b technology/waveform operating in the 2.4 GHz band. To date, there are no COTS frequency converters that will handle this scenario. Encrypted frequency conversion is one of the areas included within the Harris study, and the study is in the very earliest stages of pre-development.

Harris has undertaken all reasonable efforts to ensure that potential interference to existing 2.4 GHz operations in the area are minimized. The proposed area of operations is on a military base in a remote part of California. Coordination with existing frequency uses on the base has been conducted. Harris recognizes that any experimental authority will be conditioned on a non-interference causing basis.

Harris submits that a grant of an experimental STA is necessary in the public interest because the proposed operations will forward national security interests by assisting in the advancement of the tactical capabilities of the U.S. Armed Forces.