



DEPARTMENT OF DEFENSE
JOINT TACTICAL RADIO SYSTEM
JOINT WAVEFORMS PROGRAM OFFICE
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Arlington, Virginia 22209-2110

SAAL-JR

Dec 1, 2005

MEMORANDUM

SUBJECT: Letter of Support for High Assurance Wireless Communication System (HAWCS™)
Technology Development

To Whom It May Concern:

Our office is responsible for overseeing the development of various system technologies, including waveforms and waveform components, for the Joint Tactical Radio System (JTRS). As such, we are also concerned about countering threats by wireless and wired network attackers (e.g. "hackers") against the integrity of our waveform applications, JTRS radio platforms, and JTRS radio networks, which connect with the Global Information Grid (GIG).

My Chief Engineer has been briefed by Dr. David Murotake, founder of SCA Technical, Inc. on the HAWCS™ Smart Radio system. The JTRS Program needs to urgently address a critical information assurance issue identified in JTRS Change Proposal CP295, "Exposed Black Side", a topic in the Wireless Network Security (software or hardware) area.

The HAWCS™ Smart Radio technologies being developed by SCA Technical, Inc. under Air Force (Rome Labs) SBIR AF03-098, Information Assurance for Mobile Users Using Smart Radio, Phase II, is an excellent starting point for technologies to be transferred to the JTRS Program. The SCA Technical team is developing a JTRS SCA-compatible technology which shows great promise in addressing CP295 and associated information assurance needs. By leveraging the progress made on the HAWCS™ Smart Radio to date, the ability to develop and deploy this technology to the JTRS Program within three years (including NSA Type I certification) by this team is highly plausible.

SCA Technical is leading an experienced team including General Dynamics C4 Systems/Information Assurance Division (IAD); Green Hills Software (GHS), and Objective Interface Systems (OIS). The HAWCS™ system employs GD's Advanced INFOSEC Machine (AIM) chipset and a multiple independent levels of security (MILS) operating environment (OE) being developed under AFRL contract by GHS and OIS. AFRL, GHS and OIS expect the MILS OE to be deployed as COTS software in CY2006. The SCA Technical team has worked together on a number of Smart Radio SBIR's including AF03-098 Phase II, AF05-108, A05-207, and NIST 9.05.3-9. Given the past performance of the team members, we expect the proposed project can result in a JTRS SCA compatible reference platform for incorporation into all JTRS Clusters within three years.

A handwritten signature in blue ink that reads "RE Knudsen".

Ronald Knudsen, PhD

Director

Joint Waveform Program Office