



Information Warfare - Defense Terms of Reference - Specific Tasking

- Identify potential IW threats
- Provide assessment of existing and near-term technologies
 - Attack detection
 - Protection
- Recommend an affordable DON IW-D strategy to
 - Provide acceptable levels of security
 - Maximize network and infrastructure flexibility

Naval Warfare Agency Contract

TERMS OF REFERENCE - SPECIFIC TASKING

In February 1996, NRAC was charged with an assessment of the DON IW protection and attack detection processes. The general objective called for a technology assessment to enhance the development and protection of emerging Naval networks from first order vulnerabilities.

For the purpose of this study, the Panel focused on threats (susceptibilities and vulnerabilities), technology elements, and the emerging DON policy to mitigate both near- and long-term risks.

The specific Terms of Reference for the NRAC Summer Study Panel on IW-D are included here in their entirety.

Terms of Reference

Assessing DON Information Warfare

Protection and Attack Detection Processes

GENERAL OBJECTIVE: Assess technologies associated with the protection and attack detection processes in order to enhance the development and protection of emerging Naval networks from first order vulnerabilities.

BACKGROUND: The DON is in the process of interconnecting a substantial portion of its operational and support infrastructure (voice, video and data) in order to enhance productivity across a variety of disciplines, including Automated Information Systems (AIS), Medical, Personnel, Acquisition, Operations, Intelligence, etc. This network will include fiber, wire, satellite and wireless, including line of sight radio frequency (LOS RF), elements.

Guided by a risk management approach, particular emphasis should be placed on identifying steps to be taken now so as to assure the effective performance of DON networks (fiber, wire and RF) in the face of likely adversarial efforts to disrupt or degrade their support of U.S. Naval operations. The specific focus will be on recommending a strategy to include such things as identifying and prioritizing policy, technology and/or program developments for incorporation into Naval networks and support infrastructures.

SPECIFIC TASKING:

- a. Identify potential IW threats.
- b. Provide an assessment of existing and near-term attack detection and protection technologies.
- c. Recommend a DON defensive IW strategy that provides acceptable levels of security while maximizing network and infrastructure flexibility at an acceptable cost.

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