

# IATAC

## **IATAC provides expertise in the following areas:**

- Biometrics
- Certification & Accreditation
- Computer Forensics
- Computer Network Defense
- Data Embedding
- Defense Information Operations
- Firewalls
- Information & Infrastructure Assurance
- Intrusion Detection
- Information Operations (IO)
- IO Wargame/Exercise Development
- Malicious Code Detection
- Operations Security
- Penetration Testing
- Public Key Infrastructure
- Steganography
- Virtual Private Networks
- Vulnerability Assessment

## **And capabilities:**

- Meetings & Conferences
- Policy & Doctrine
- Research & Analysis
- Studies & Reports
- Training & Exercises

In today's globally networked environment, DoD systems are increasingly vulnerable to information warfare (IW) attacks from adversaries with readily available, easy-to-use, low-cost technologies. Compounding the challenge is the exponential growth of information, data, and technology. Securing information systems requires an in-depth understanding of the complexity of networks, the specialized nature of cyber threats, and the full spectrum of emerging technologies available to counter such threats.

The Information Assurance Technology Analysis Center (IATAC) provides DoD information assurance (IA) knowledge to make decisions regarding the defense of networks and information systems.

IATAC provides DoD with emerging scientific and technical information in support of Defensive Information Operations. IATAC's mission is to provide a DoD central point of access for information on information assurance (IA) emerging technologies. These technologies include system vulnerabilities, research and development, models, and analyses to support the effective defense against information warfare attacks. IATAC focuses on all defensive activities related to the protection of information, information-based processes, and information systems.

## **TATs & Products**

### **IATAC Support for Office of the Secretary of Defense (OSD) Net Assessment (NA)**

The Office of the Secretary of Defense (OSD) Net Assessment (NA) has a continuing need for analytical and gaming support focused on the Revolution in Military Affairs (RMA). IATAC is developing a comprehensive understanding of the RMA for the U.S. and foreign military organizations. This understanding includes RMA implications for: strategic doctrine, research and development, equipping the force, force organization structure, strategic and tactical operational concepts, military operations other than war (OOTW), international military negotiations (e.g., disarmament), DoD budget planning, DoD acquisition and policy. IATAC is also incorporating the insights and knowledge gained through the analysis, gaming, and exercises into the DoD budget, acquisition, and policy process, i.e., to institutionalize the results of the analysis, gaming and exercise processes.

### **Examination of DoD Information Assurance (IA) & Defensive Information Operations (DIO) Organizations**

Given the risks and the fact that weakness in any portion of the Defense Information Infrastructure (DII) is a threat to the operational readiness of all Components, the Department is moving aggressively to ensure the continuous availability, integrity, authentication, confidentiality, and non-repudiation of its infor-



## Information Assurance Technology Analysis Center

mation and the protection of its information infrastructure. IATAC provides organizational, technical, and program analysis to the ASD(C3I) to support the continuous integration, effective, and efficient operation of all DoD IA and DIO efforts.

### **Air Force Command & Control: Reliance on the Public Switched Network (PSN)**

IW, in the form of computer intrusion and physical attacks, poses a substantial threat to high-priority C2 systems. Their loss or impairment through IW attack would seriously hamper the Air Force's ability to perform vital functions necessary for national security. IATAC's study provided an understanding of the degree to which the Air Force Command and Control Systems rely on the PSN and assisted in establishing a baseline from which requirements for the protection of critical C2 and Information Operation (IO) capabilities can be identified and prioritized.

### **Information Assurance Support to the Joint Task Force-Computer Network Defense**

The newly activated JTF-CND faced the challenge of an immediate operational mission of defending the Defense Information Infrastructure. IATAC has supported the JTF-CND with development of tactics, techniques, and procedures, standing operating procedures, wargaming and exercises, training, conference support, and organizational assessment, among others.

## **Products**

- **IA Tools Database.** Fast access on intrusion detection, and firewalls
- **Subject Matter Experts Database.** Provides point-of-contact information for various technical experts within the IA community
- **Bibliographic Database.** Holds IA policies, directives, reports, and briefings (classified and unclassified)
- **Infrastructure Database.** Identifies DoD infrastructure-related documents
- **IA Newsletter.** Features timely articles from the IA community (published quarterly)
- **IA Digest.** A composite of relevant IA articles... an IA "Early Bird" (published monthly)
- **IA Tools Reports.** Identifies and indexes all tools currently held within the IA Tools Database (e.g., intrusion detection, vulnerability analysis, firewalls)
- **Critical Reviews & Technology Assessments (CR/TA) Reports.**
  - Biometrics: Fingerprint Identification Systems
  - Computer Forensics: Tools & Methodology
  - Defense In Depth
  - IA Metrics
  - Modeling & Simulation Activities in Support of IA
- **State-of-the-Art Reports (SOAR).**
  - Data Embedding for IA
  - Malicious Code Detection
  - Visualization Technologies

For a listing of products, prices, availability, and distribution limitations, contact IATAC or visit our Web site at <http://iac.dtic.mil/iatac>

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