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The Center for Information Systems Security Studies and Research - Research Projects

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RESEARCH: Projects

[SecureCore](#)

The SecureCore project will investigate the fundamental architectural features required for trustworthy operation of mobile computing devices such as smart cards, embedded controllers and hand-held computers.

[HASP - The High Assurance Security Program](#)

This program provides a unifying conceptual framework and management structure for long range planning and coordination of focused Information Assurance research projects.

[TCX - Trusted Computing Exemplar Project](#)

The purpose of the Trusted Computing Exemplar project is to provide a working example to show how trusted computing systems and components can be constructed.

[HARD - The High Assurance Remote authentication Device Project](#)

The HARD project will build and evaluate a high assurance network access device. The purpose of this device is to provide an unforgeable trusted path with which network clients can securely interact with security-enabled remote servers.

[MYSEA - Monterey Security Architecture](#)

The purpose of this research project is to develop high assurance security services and integrated operating system mechanisms that will protect distributed multi-domain computing environments from malicious code and other attacks.

[UDP and Collaboration Services](#)

Collaboration tools are becoming embedded in the business processes of many enterprises. These tools may include many different communication functions such as e-mail, distributed file-sharing systems, Internet Relay Chat, shared "white boards," video, voice, etc.

[CyberCIEGE - Network Security Training Tool](#)

CyberCIEGE packages an information assurance laboratory as an interactive, entertaining, commercial-grade PC-based computer game where players assume or observe various roles involved in attacking and defending a networked computing system.

[Emergency Response for Cyber Infrastructure Management](#)

The objective of this research is to investigate architectural mechanisms to provide an emergency response capability for Cyber Infrastructure management through the use of distributed, highly secure, protected domains.

[C & A - Methodology and Metrics for Component Certification](#)

This research has several goals: to create a Common Criteria protection profile for a target IT security component, the Naval Research Laboratory Pump, to compare the protection profile with the security target for certification, and to identify an approach for certifying and accrediting this component.

[Avionic Authentication Project](#)

This project will design and develop a prototype for continuous authentication of aircraft personnel in order to determine whether the persons flying a given aircraft are authorized to do



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PKI - Public Key Infrastructure

CISR has begun research work toward producing a web-based PKI end-user training tool that will provide prospective PKI users with a working knowledge of the infrastructure's underlying functionality. Successful completion of this training could be used as a precursor to CAC (DoD smart card) issuance to DoD employees.

QoS - Quality of Security Service

Our goal is to define incrementally more rigorous levels of security requirements along with the security services that satisfy them so that the user can dynamically set an appropriate security level for a given threat.

VMM - Virtual Machine Monitors

This research addresses the problem of implementing secure Virtual Machine Monitors (VMM) on the Intel Pentium architecture. A VMM allows multiple operating systems to run concurrently under virtual machines on a single workstation.

MSHN - The Management System for Heterogeneous Networks

This research is part of the DARPA/ITO Quorum program which is developing technologies that allow end users to achieve predictable and controllable end-to-end quality of service (QoS) for critical defense computing needs in a global heterogeneously distributed computing environment.

High Assurance MLS LAN - Multi-Level Secure Local Area Network

This project examines a cost effective, multi-level, easy to use office environment leveraging existing high assurance technology.

SIPL - Secure Internet Programming Languages

Our research aims to incrementally develop a secure-flow logic for a deterministic, imperative programming language. Simply put, SIPL is a holistic environment for developing secure software.

ISAKMPD

Works in tandem with IPsec to provide secure peer-to-peer connectivity between two systems over a network. The isakmpd_mon provides an isakmpd GUI monitor for observing aspects of this connectivity.

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