

Information System Security Professional (ISSEP)

A Practitioner's View

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Overview

- ▶ A Personal Perspective
- ▶ An Evolution in the Practice of Systems Security Engineering
- ▶ The ISSEP as an Integrated View of Information Assurance
- ▶ Improved Insight into Your Clients' Challenges
- ▶ A Strategic View of Information Technology Management
- ▶ What is the ISSEP Return on Investment

A Personal Perspective

- ▶ 28 years as a law enforcement officer
 - Field, management, and policy level experience
 - Technology development – not just from a user perspective
- ▶ Private sector integration and consulting experience
 - Small business point of view
 - How technology can add value to service offerings
- ▶ Transition from government to public sector consulting
 - A different point of view than the traditional consultant
 - Insight into higher level drivers that affect security and technology issues
- ▶ Focus on the problem more than the solution
 - If you can properly frame the problem the solution is much easier

An Evolution in the Practice of System Security Engineering

- ▶ The historical approach
 - Now that we have built it, how do we secure it?
 - Limited scope and scale of technology and security solutions
 - Each system addressed separately
 - An absence of collaborative view or common vision
- ▶ The way ahead – the future of information assurance (IA)
 - An integrated view of security objectives and features
 - Baked in approach – implement security beginning with concept development
 - Collaborative efforts with a common vision
 - A more disciplined approach and view point
 - Critical infrastructure assurance concerns
 - Certification recognition
 - International standards support, e.g., Common Criteria

The ISSEP as an Integrated View of Information Assurance

- ▶ Engineering ◀▶ Management
 - What—data, models, definitions
 - How—functions, processes, architectures, design
 - Who—organizations, people, timing
- ▶ Certification & Accreditation ◀▶ Policy Framework
 - Motivations—why, goals, strategies, objectives
 - Roles and responsibilities—the development and implementation process
 - Accountability—have we done it right and been good stewards?

Improved Insight into your Client's Challenges

- ▶ Your clients' challenges involve more than technology and security
 - Policy objectives and mandates
 - Federal information technology direction from Congress and OMB
 - Budget decisions are based on policy objectives not technology considerations
 - Clinger-Cohen Act
 - Federal Enterprise Architecture initiative
 - Other federal information security legislation
 - Privacy concerns
- ▶ Technology Portfolio Management
 - People—resources, human capital
 - Operations—what is the best and secure means to get the job done
 - Technology—tools that enable and enhance mission capabilities

A Strategic View of Systems and Security Engineering

- ▶ A holistic, life-cycle view of IA beginning with concept development
 - Protection—protective processes, methods, devices, etc.
 - Detection—the ability to sense abnormality indicating an attack, damage, unauthorized access or modification
 - Reaction/Response—actions to counter an attack and ensure safe and security recovery; continuity of operations
- ▶ Mastering the ISSEP Body of Knowledge
 - Alignment between policy and mission objectives
 - Better understanding of the need for integration and interoperability
 - Effective change management / transformation
 - Reduced “time to market” for your client

What is the ISSEP Return on Investment?

- ▶ Enhanced knowledge, skills, and understanding
 - Systems security engineering process
 - Why Certification and Accreditation is important
 - Technical Management
 - The role of policy direction and enforcement for federal agencies
- ▶ Greater professional opportunities
 - Employers and clients have more jobs than candidates with the right skill sets
 - You can effectively bridge the gap between policy, engineering, security and management disciplines
- ▶ Personal and professional satisfaction that your efforts are independently recognized

Questions?