Report on Best Practices for a National Approach to Cybersecurity

Establishing National Government-Industry Collaboration

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National Government – Industry Collaboration

▶ Industry owns and operates much of the critical infrastructure and critical information infrastructure

▶ Protecting critical infrastructure and critical information infrastructure is a shared responsibility

▶ Partnership is required for meaningful collaboration

▶ Fundamental to national cybersecurity efforts

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Government-Industry Collaboration: Key Elements

- *Value proposition for government and industry*
  - Need for a mutually beneficial relationship
  - How can industry provide value to government?
  - How can government provide value to industry?

- *Roles and Responsibilities*
  - Need for common understanding of respective roles and responsibilities
  - Manage expectations

- *Trust*
  - Necessary for establishing, developing, and maintaining relationships
  - Built over time through collaborative efforts

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Government-Industry Collaboration: Overarching Goals

▶ Develop government-industry collaborative relationships to manage cyber risk and to protect cyberspace.

▶ Provide a mechanism to bring government and industry perspectives, equities, and knowledge together in order to reach consensus and move forward to enhance security at a national level.

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Include Industry Perspectives

▶ Engage industry early – from development to implementation to maintenance

▶ Employ different mechanisms for engagement
  - Participation in government-industry working groups
  - Solicitation of comments for cybersecurity policy and strategy development
  - Coordination of efforts through information sharing mechanisms

▶ Collaborate on an approach to risk management

▶ Cooperate in research and development activities

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Encourage Development of Industry Groups

- Focus:
  - Strategic issues
  - Operational issues
  - Management of security concerns

- Functions:
  - Enables information sharing among industry
  - Helps to provide a process for government engagement

- Conditions needed to enable collaboration:
  - Anonymity for members
  - Access to information
  - Protection of proprietary/business sensitive information

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Enable Government-Industry Collaboration

▶ Mechanisms to build trust and promote collaboration

- ▪ Utilize a written agreement that guides the collaboration and exchange between government and industry

- ▪ Define a shared vision and purpose

- ▪ Leverage strong individual and organizational leadership

- ▪ Participants must see tangible and measurable outcomes

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Establish Cooperative Arrangements for Incident Management

- Coordinated response efforts are key to effective incident management
  - Rapid identification, information exchange, mitigation and/or remediation can diminish the damage caused by incidents

- Framework for coordination
  - Construct for information sharing that includes focal points for policy-related issues and operational information exchange
  - Identified policies and procedures for sharing and reporting incidents
  - Policies for protecting and disseminating sensitive (government and industry) proprietary information
  - Mechanisms for communicating and disseminating information

- Exercise coordination mechanisms
  - Test government-industry information sharing and coordination to identify gaps and improve preparedness activities

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Questions?

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