



Comparative Report Summary

- *Critical Foundations*, PCCIP, 1997
- *Report of the Defense Science Board Task Force on Information Warfare: Defense*, 1996
- *NII Security: A Public Private Responsibility*, NII Security Issues Forum, 1997
- *National Strategies and Structures for Infrastructure Protection*, IDA, 1997
- *Cybernation: The American Infrastructure in the Information Age*, OSTP, 1997
- *NII Security: The Federal Role*, NII Security Issues Forum, 1995



Comparative Report Summary, Cont.

- *Critical Foundations* - a report by the President's Commission on Critical Infrastructure Protection assessing the threats and vulnerabilities of critical infrastructures.
- *Report of the Defense Science Board Task Force on Information Warfare: Defense* - a report providing independent advice to the Secretary of Defense related to defensive information warfare capabilities.
- *NII Security: A Public Private Responsibility* - a report by the NII Security Issues Forum discussing NII security issues and a framework for Federal policy-making.



Comparative Report Summary, Cont.

- *National Strategies and Structures for Infrastructure Protection* - a report by IDA examining critical infrastructure vulnerabilities and threats, with particular emphasis on the newly emerging dangers associated with cyber attacks.
- *Cybernation: The American Infrastructure in the Information Age* - a report by the Office of Science and Technology Policy seeking to promote a common understanding of the network reliability challenges for private industry, public utilities, and government at all levels.
- *NII Security: The Federal Role* - a report by the NII Security Issues Forum articulating information assurance expectations for the NII.



Partnership

Critical Foundations PCCIP

- Recommends new approach to the relationship between the government and private sector
- Enhanced level of mutual communications, accommodation, and support

National Strategies & Structures IDA

- Primary responsibility for infrastructure protection rests with owners/operators
- Government has important responsibilities complementary to those of private sector

Report of DSB TF on Info Warfare DOD

- Recognized difficulty of defining private sector/government roles
- Need to mediate opposing views of information security needs

Cybernation OSTP

- Infrastructure reliability has taken its place as an explicit public policy objective

Public/Private Responsibility Security Issues Forum

- Responsibility for NII security shared between public/private sectors
- By working together, government/industry can leverage scarce resources and develop shared risk mitigation techniques

The Federal Role Security Issues Forum

- Private sector generally has responsibility for NII security
- Government has role as a leader, facilitator, “model user,” and promoter of general welfare





Education and Awareness

*Critical
Foundations*
PCCIP

- Provide computer ethics training
- Provide professional education to increase number of graduates & teachers within information security disciplines
- Enhance understanding of infrastructure threats & vulnerabilities

*National Strategies &
Structures*
IDA

- Government responsibility to increase education/awareness of infrastructure assurance issues

*Report of DSB TF
on Info Warfare*
DOD

- Training DOD user & operations community on threats/vulnerabilities
- Training DOD suppliers/general public to enhance their understanding of DOD dependence on infrastructures

Cybernation
OSTP

- Not specifically addressed

*Public/Private
Responsibility*
Security Issues Forum

- Government can foster motivation for encouraging private sector investment in NII security measures

The Federal Role
Security Issues Forum

- Need for training and awareness in general area of computer ethics
- Promote awareness of NII threats



Information Sharing

Critical Foundations PCCIP

- Establish private/public sector information and analysis center
- Establish, within FBI, an effective law enforcement and intelligence integration cell
- Use existing FBI communication mechanisms to provide warnings

National Strategies & Structures IDA

- Establish a government information clearinghouse to provide threat and vulnerability information, as well as warnings

Report of DSB TF on Info Warfare DOD

- Establish a center for intelligence indications and warning, current intelligence, and threat assessments in DOD
- Possibly establish an additional center for indications and warning that would evolve into a “pan-government and private sector organization”

Cybernation OSTP

- Recommends a mechanism for sharing information on vulnerabilities, incident data, technical solutions, and best practices

Public/Private Responsibility Security Issues Forum

- Recommend sharing information on NII threats through a series of public meetings and other outreach efforts

The Federal Role

Security Issues Forum

- Need to exchange information concerning vulnerabilities



Research and Development

Critical Foundations PCCIP

- Increased Government R&D funding for:
 - Information assurance
 - Intrusion detection/monitoring
 - Vulnerability assessment and systems analysis
 - Risk management
 - Mitigation/response capabilities

National Strategies & Structures IDA

- Not specifically addressed

Report of DSB TF on Info Warfare DOD

- Increased DOD R&D funding for:
 - Survivable systems architectures
 - Modeling techniques/tools
 - Automated detection
 - Tools for projecting system performance
 - IW-Defense operational training
 - Testbeds/simulation mechanisms

Cybernation

OSTP

- Increased government R&D funding for:
 - Intrusion detection/prevention
 - Robust network architectures
 - Configuration management
 - Secure communications

Public/Private Responsibility Security Issues Forum

- Not specifically addressed

The Federal Role

Security Issues Forum

- Need to promote R&D for security technology supporting federal agency missions



Legal

Critical Foundations **PCCIP**

- Review authorities enabling:
 - Prevention
 - Mitigation
 - Response
 - Recovery & Reconstitution

National Strategies & Structures **IDA**

- Review authorities for:
 - Intelligence
 - Military
 - Law enforcement
 - Counter Terrorism agencies

Report of DSB TF on Info Warfare **DOD**

- Review authorities for:
 - Defensive actions
 - Roles in protecting non-DOD computers

Cybernation

OSTP

- For infrastructure threats, clarify federal:
 - Missions
 - Responsibilities
 - Authorities

Public/Private Responsibility **Security Issues Forum**

- Review legislation enabling prosecution of computer-related crimes

The Federal Role

Security Issues Forum

- Review domestic criminal law
- Foster international cooperation



PCCIP Comparative Report Summary

PCCIP Issues	<i>Report of DSB on Info Warfare</i> DOD	<i>Public/Private Responsibility Security Issues Forum</i>	<i>National Strategies & Structures</i> IDA	<i>Cybernation</i> OSTP	<i>The Federal Role Security Issues Forum</i>
Promote Govt./Private Sector Partnerships	✓	✓	✓	✓	✓
Increase Education & Awareness	✓	✓	✓	Not Addressed	✓
Facilitate Sharing Threat/Vulnerability Information	✓	✓	✓	✓	✓
Fund Government Research & Development	✓	Not Addressed	Not Addressed	✓	✓
Review & Enhance Legal Authorities	✓	✓	✓	✓	✓

✓ Indicates report is consistent with PCCIP recommendations.

