





The Challenging Landscape of Critical Information

Infrastructure:

Are We Ready?

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Define the challenge. Outline the response. Propose ways forward.



Define the challenge.



The Complicated Landscape of Critical Information Infrastructure Protection: Are We Ready?



International

Physical v. Cyber

The Complicated Landscape of Critical Information Infrastructure Protection: Are We Ready?

Military v. Non-Military Systems

Wartime v. Peacetime

Cyber Disaster Planning

- Federal Incident Response Community
 - DHS, National Cyber Security Division
 - Law Enforcement/Intel
 - Department of Defense
- Information Sharing and Analysis Centers
- Sector Coordinating Councils
- Government Coordinating Council
- International Entities



The Complicated Landscape of Critical Information Infrastructure Protection: Are We Ready?

13 Critical Infrastructure Sectors

The Complicated Landscape of Critical Information Infrastructure Protection: Are We Ready?

Communications and IT Sectors

What is "Critical"?

• Executive Order 13010

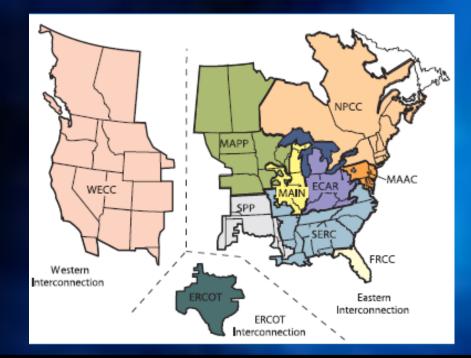
- "Infrastructures so vital that their incapacitation or destruction would have a debilitating impact on defense or economic security."

• USA PATRIOT Act (P.L. 107-56)

- "[S]ystems and assets, whether physical or virtual, so vital to the United States that the incapacity or destruction of such systems and assets would have a debilitating impact on security, national economic security, national public health and safety, or any combination of those matters."

What is "Critical"?

- Interdependencies between Sectors
 - Known, unknown and unknowable.
- Interconnected systems
 - "The North American power grid is one large, interconnected machine."



What is "Critical"?

- Convergence
 - Progress toward integrated IP Network.
 - Increased opportunity for cascading failure.
 - -New "critical" functions.

International





Outline the response.



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International Partners

Private Industry

Academia

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ALE NE Ready:

State, Local & Tribal Authorities

Federal Government

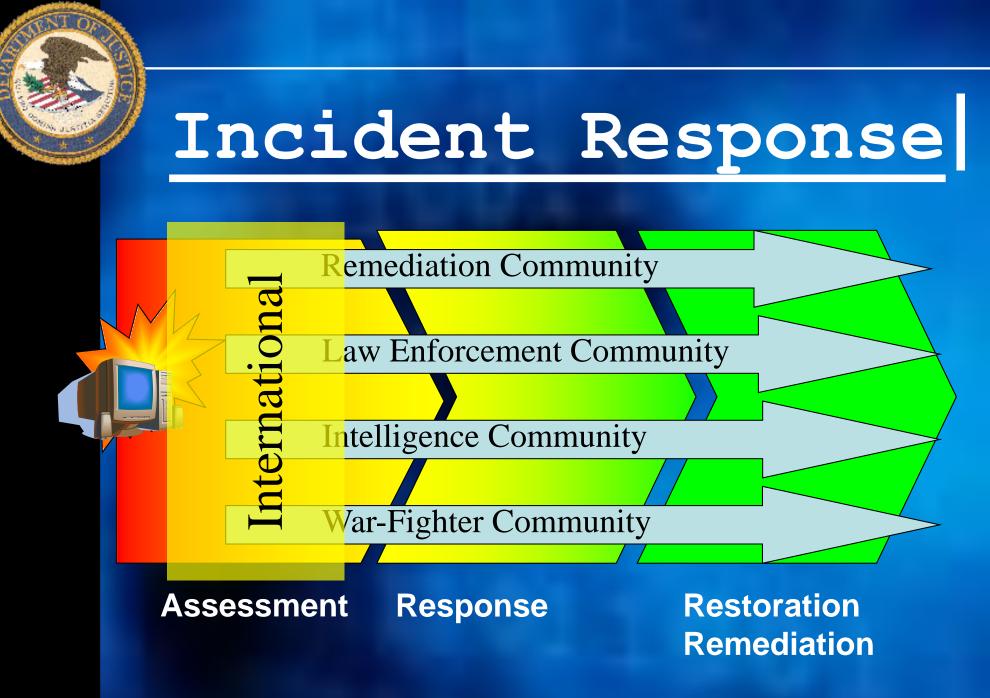
Natural Disaster

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Attack

Accident





Tripwires

National Response Plan

December 2004

Homeland

- National Response Plan
 - The National Response Plan establishes a comprehensive approach to enhance the ability of the United States to manage domestic incidents.
 - Homeland Security Policy Directive 5
 - Signed December 2004.

Tripwires

- "Incident of national significance"
 - An actual or potential high-impact event that requires a coordinated and effective response by and appropriate combination of Federal, State, local, tribal, nongovernmental, and/or private-sector entities in order to save lives and minimize damage, and provide the basis for long-term community recovery and mitigation activities.
 - Cyber Annex specifically addresses management of cyber incidents.

National Cyber Response Coordination Group







Origin of the NCRCG

- Department of Homeland Security
 - Effectuate responsibilities under HSPDs 5 and 7 and the National Response Plan (NRP).

• Department of Justice

 Replace the IRC with an operational group that could help coordinate investigative response activities during a cyber incident.

• National Security Council

 Provide a central interagency group for addressing cyber issues implicating national and homeland security.

Structure of the NCRCG

 Steering Committee

 Co-chaired by DHS/NCSD, DOJ/CCIPS, and DOD/OSD-NII.

- Includes:

CIA
DOJ
DHS
Director of
NCIX
National
NSA
Intelligence (DNI)
NSC
ODD
OMB

Propose ways forward.

• Encourage your leadership to undertake the challenge.



• Challenge your leadership.

 Help them focus on what matters in a manner that is helpful to them.

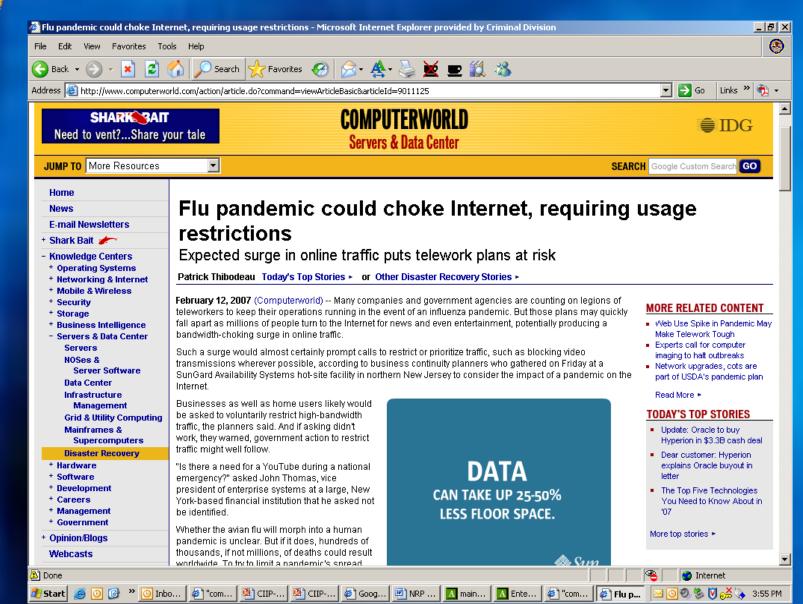


Align words and deeds

- Are your entity's actions consistent with the perception of the threat?
- If not, why not?

• Prepare and practice.

- Do you have an incident response plan?
- Is it up-to-date?
- Has it been socialized in your organization?
- Are you confident that it will be followed?



Getting more info

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