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**Melde- und Analysestelle Informationssicherung MELANI**

# Responsible Vulnerability Disclosure

## A State's Perspective

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# The State's Responsibility in the Security Domain



ENERGY



HEALTH



TRANSPORT



FINANCIAL



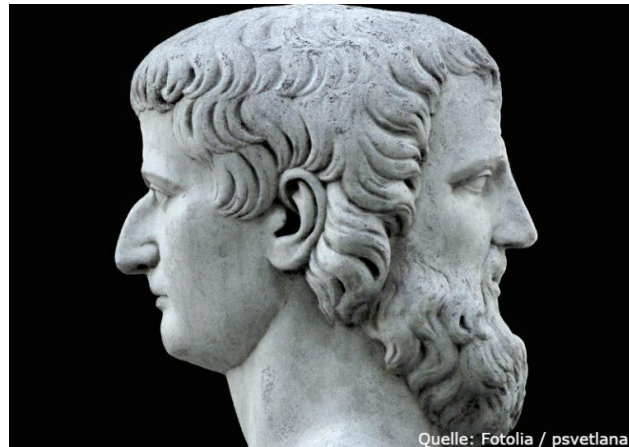
ICT



WATER

## CITRIX

Citrix Products Bug Let Hackers Access  
to 80,000 Companies Networks



Quelle: Fotolia / psvetlana



# The State's Role in Cyber Security

- It can draft up and enact Law, such as:
  - Mandatory Reporting of Vulnerabilities
  - Enforcing the Application of Security Measures
- It can support Initiatives, such as:
  - Bug Bounty Programs (i.e. eVoting-Systems)
  - (Sectorial) Information Sharing
- It can be a key player in RVD, such as:
  - National Contact and Information Point
  - International Coordination



# The State's Role in National Security

- It must ensure working and efficient Law Enforcement and Security Services, hence:
  - It must provide for the legal framework to access communication systems.
  - It must enable Law Enforcement and Services to keep up with the technological development.
- It must also ensure readiness in regard to its Defense, hence:
  - It must provide for the development of offensive capabilities.
  - It must provide for a clear doctrine on how such capabilities are to be used.



# The Swiss Approach

**Vulnerability “Harvesting” is neither financially, nor practically feasible.**

Table 1  
Evolution of Stuxnet versions

Version	Date	Description
0.500	November 3, 2005	C&C server registration
0.500	November 15, 2007	Submit date to a public scanning service
0.500	July 4, 2009	Infection stop date
1.001	June 22, 2009	Main binary compile timestamp
1.100	March 1, 2010	Main binary compile timestamp
1.101	April 14, 2010	Main binary compile timestamp
1.x	June 24, 2012	Infection stop date

**Securing the Nation’s Industry and CNI always enjoys Priority**





# Some Thoughts To Ponder

- States have a key role to play in setting up a functioning and efficient Responsible Vulnerability Disclosure by engaging the relevant stakeholders.
- States must set up a transparent, clear and concise process in order to balance the need for RVD and lawful interception.
- Any effort should be guided by existing international frameworks, norms and principles.