On the Insecurity of Microsoft's Identity Metasystem

S. Gajek, J. Schwenk, X. Chen Horst-Görtz Institute for IT Security Technical Report HGI TR-2008-003 May 2008.

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- Identified a vulnerability shared by browser-based authentication protocol
- A proof of concept implementation of the attack building on dynamic pharming [VA Ka07]
- Proposed two countermeasures

Attack sandBox.netFx3.com Log in to our Community **1** 59(8+ o Compromised DNS • Fool user with bad SSL certificate • Compromised browser • 00 00 0 2

Critical comment

How likely would that happen? DNS

- × Well studied
- Certificate warning
 - Troublesome process to install an invalid root certificate
 - × IE 7 & Firefox's full page warning

	1
	2
	3

Appreciative comments

Demonstrated the severity of SOP problem

- Shared by all browser based authentication systems
- Weakest link theory

Proposed two countermeasures

- Easy to implement
- Protection around Cardspace's security token

Question

• What would be the most urgent thing to do?

Enhance CardSpace to address the issue identified Evaluate the security of CardSpace and its running environment as a whole



Update SOP

