

Things to Ponder......

- One identity = new keys to the kingdom?
- We're combating fraud together!
- Are you prepared for emerging threats?
- Thinking beyond web portal "identity"



The Good News....

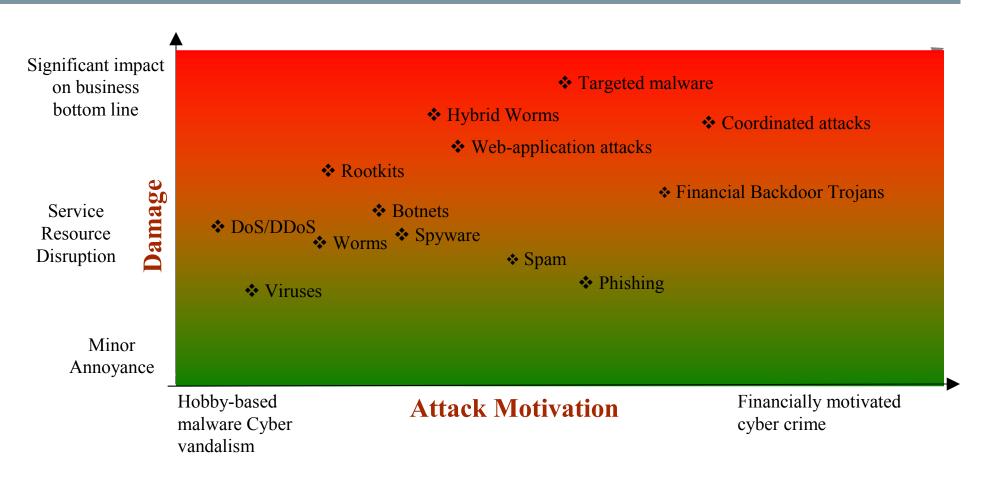
Federated Identity gives you:

- Less points to secure and authenticate
- ☑ Centralized identity & audit controls
- ☑ Ability to initially pinpoint fraud up front
- ☑ Less personal data distributed amongst providers



The Bad News...

Just when we thought we figured it out....it keeps changing!





Fraudulent Enrollment & Origination

- Enrolling offline users to online account
 - Long-time customers
 - Most vulnerable
 - Elderly
 - Poor
 - People without Internet access
- New account fraud
 - Use false/synthetic identities
 - Information does not match real person
 - Created on the spot or developed over years
 - Use well-known sites for identity theft
 - Person assumes identity of real individual (dead or alive)
 - Use as a "mule account"
 - Understand how site security works



Identity thieves in jail



One Identity = One Stop Shopping? What will be the new "Keys To The Kingdom"?

- SSNs old keys to the kingdom
 - never intended for authentication

 used for identity
- DarkMarket FBI sting shut down notorious Russian Fraudster selling SSN automatic checker
- Fraudster underground commonly sell SSN WHAT NEXT?





Emerging Authentication & Authorization Threats?

- Phishing
- Malware
 - Trojans
 - Man-in-the-browser (MITB)
- Distribution Tools



Dear valued customer of TrustedBank,

We have recieved notice that you have recently attempted to withdraw the following amount from your checking account while in another country: \$135.25.

If this information is not correct, someone unknown may have access to your account. As a safety measure, please visit our website via the link below to verify your personal information:

http://www.trustedbank.com/general/custverifyinfo.asp

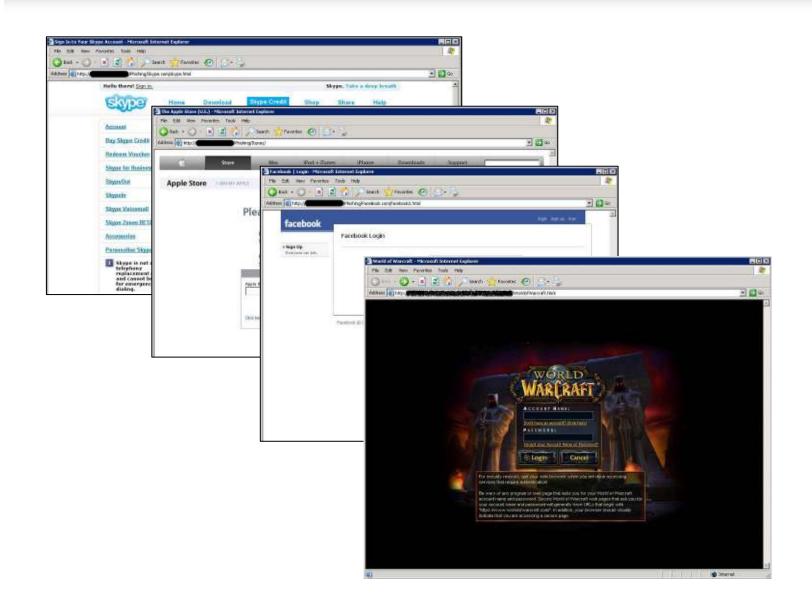
Once you have done this, our fraud department will work to resolve this discrepency. We are happy you have chosen us to do business with.

Thank you, TrustedBank

Member FDIC @ 2005 TrustedBank, Inc.

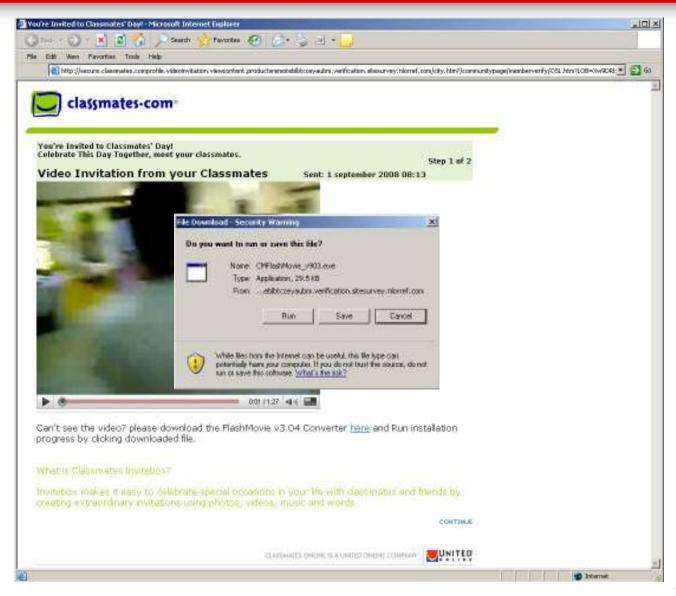


Phishing: Diversifying Targets



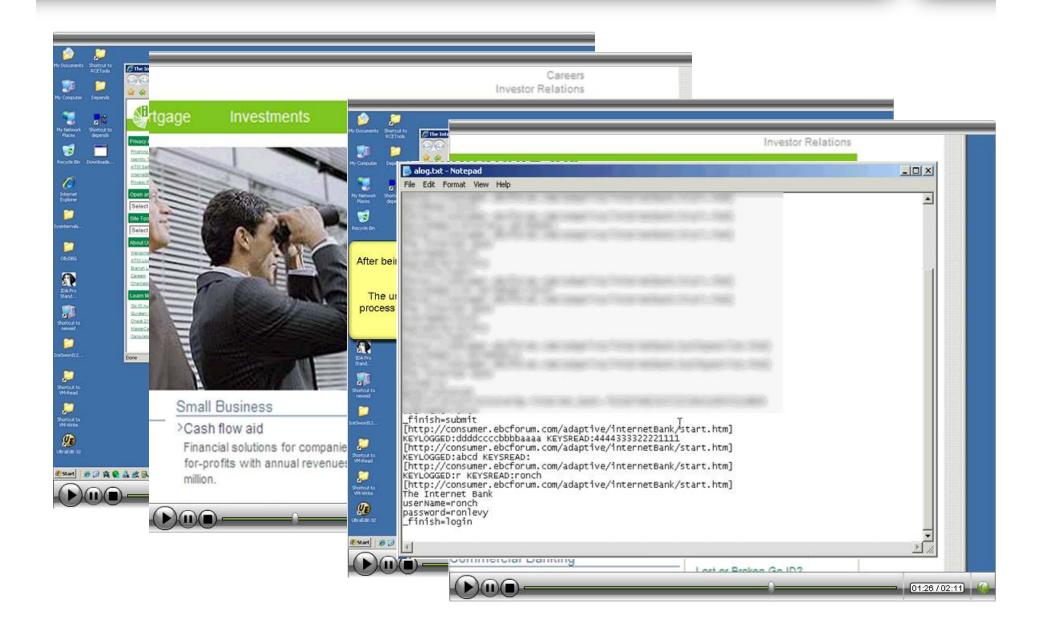


Blend of Phishing and Crimeware





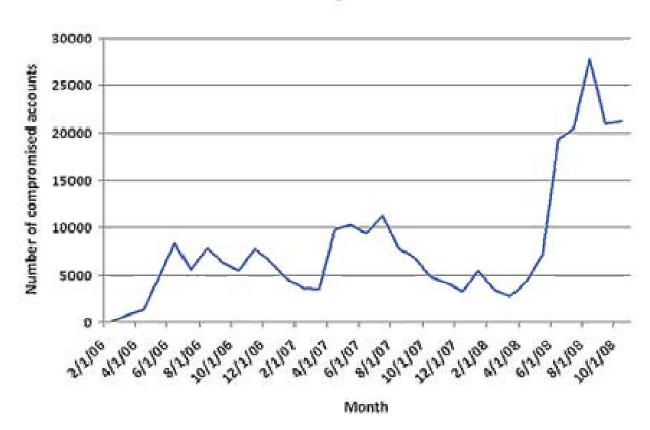
A Basic Trojan Attack



Sinowal Trojan

- Over 500,000 Compromised Credentials since 2006
- More than 2,000 Bank Domains impacted, non-financial institutions impacted as well

Sinowal - Compromised bank accounts





How Is Malware Distributed?

Cease-Fire Trojan Attack

- Social engineering scam designed to lure people, via an email spam attack to fake news website designed to look like CNN.com.
- Near real-time response to breaking news
- Similar to other social engineering attacks

Israel offers short respite from strikes

Israel will halt its bombardment of Gaza for three hours every day to allow residents of the Hamas-ruled Palestinian territory to obtain much-needed supplies, a military spokesman says. The images broadcast here were graphic and striking. The Al Jazeera English report below captures the extent of the devastation caused by the initial strikes.

http://edition.cnm.2009.WORLD.meast.01-07.bigvideo.2009.israel.and.gaza israel-gaza.htm

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Fraud-as-a-Service We need to combat fraud together!

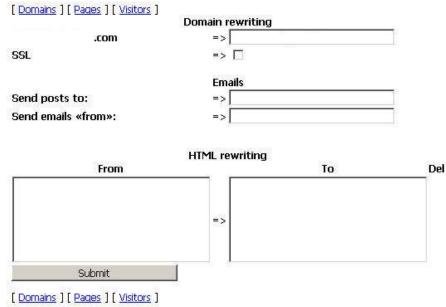




Fraud-as-a-Service Example: Universal MITM Phishing Kit

Genuine domain

- **○VV**<u>Unimerbaand</u> entity can be readily tary technique.com
- Sophist Spoofed Domain hing-based MITM attacks easy to implement
- Compelling: After unsuspecting user clicker of interest in the compelling of the
- Powerful: Collects any credentials
- Easy, easy, easy

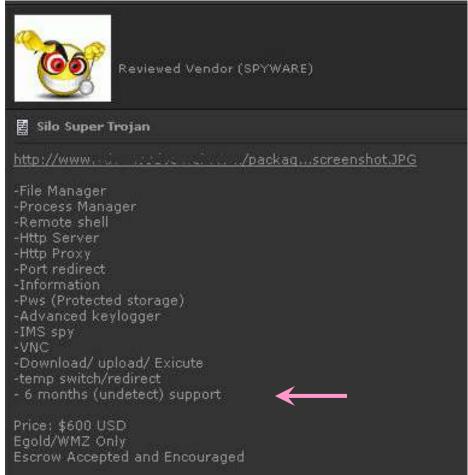




Fraud-as-a-Service Crimeware Testing Tools & Warranty

Anti-Virus "tester" and "fixer" with guarantied replacement if detected

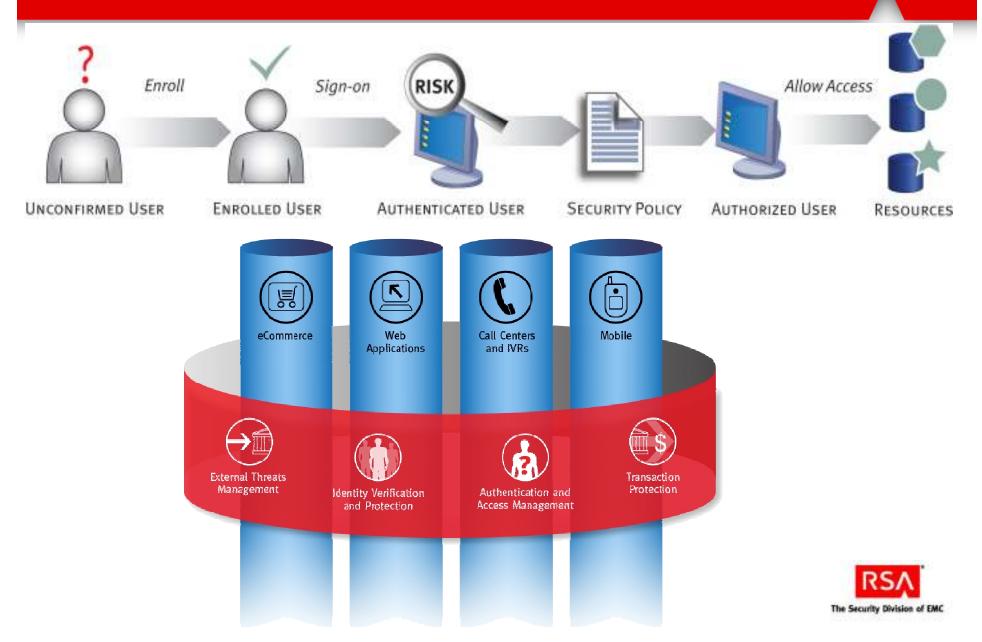






Combating Fraud End-to-End

Think beyond portal "Identity" - Multiple Attack Vectors & Channels



How Multi-Channel Fraud is Perpetrated

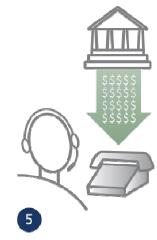


and logs in to account

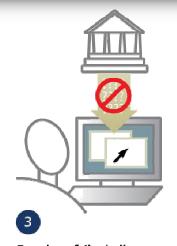
authenticate on the phone



Fraudster attempts a money transfer and gets challenged by the financial institution

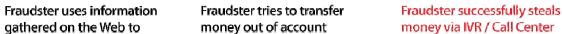


money out of account



Fraudster fails challenge and navigates account / Internet to learn about customer







So What Can You Do?

Victory is not found in destroying the opponent, it is found in reducing them!

As with fighting any intelligent opponent, the goal must be...

- To analyze
- To act
- To achieve measurable reductions in fraud
- To adapt
- To repeat the above



So What Can You Do? Layered Defense Strategy

Holistic

- Take proactive countermeasures to stop 'harvesting' fraudsters
- Monitor and detect 'cash-out' fraudsters
- Implement vulnerability & configuration polices then AUDIT

In-Depth

- Protect enrollment, login, transactions & other post-login activities
- Protect sensitive data, prevent ID theft and account takeover
- Detect early 'signs' and fraud-enabling steps (e.g. profile changes)

Adaptive

- Tune security according to level risk and changing threats
- Balance with cost and usability
- Monitor (invisibly), block, or authenticate (visibly)





The Security Division of EMC

Thank you!