

Electronic Transmission of Controlled Substance Prescriptions Threats and Solutions

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Identity Management Lifecycle

- Prescription integrity begins with
 - Registration
 - Identity proofing
- NIST 800-63 Electronic Authentication Guidelines
 - Aligned with federal assurance level definition
 - Identifies threats
 - Authentication methods
 - Provides foundation terminology for future discussions
- **Recommendation #1**
 - Survey vendors and map current authentication processes to those defined in 800-63. Provides a basis for continued discussions.



Threats to E-prescribing

- Pharmaceutical Spam
- Medical Devices
 - Can be compromised
 - Located on private networks
 - How safe are closed networks?
- Private Practice Computer system
 - How are these systems secured?
 - Industry comments indicate that systems will have multiple purposes
 - In place security technologies may not be effective



Threats (continued)

- Networks
 - Future will drive more connections between systems
 - Practice use of numerous services increases “risk of infection” for all



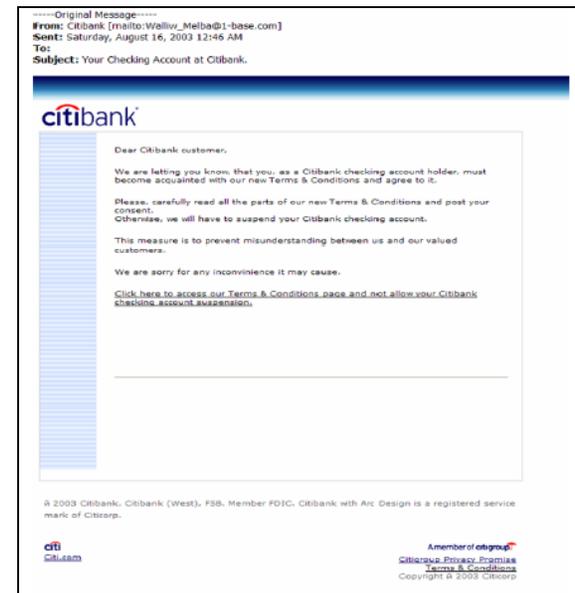
Solution or Roadmap?

- Gaps are in Authentication and Record Integrity
- Solutions categories
 - Prevention
 - Detection
- NIST Guidelines provide basis for future roadmap



Dual Factor Authentication

- FDIC Phishing response
 - “Based on experience from banking industry, where secure connections are pervasive, even under these conditions, passwords are not effective.”
- OMB response to VA laptop incident
- Federal HSPD-12 program
- **Recommendation #2**
 - Dual Factor Authentication is the most effective method of improving authentication security.



Record Integrity Requirements

- Innovation is only true constant in technology arena
- The future is hard to predict
- New methods of prescription “transport” should be expected
- **Recommendation #3**
 - Record integrity solution should not be tied to a particular implementation. Opportunity to leverage cryptography provided by dual factor authentication.



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Recommendations

- **Recommendation #1**
 - Survey vendors and map current authentication processes to those defined in 800-63. Provides a basis for continued discussions.
- **Recommendation #2**
 - Dual Factor Authentication is the most effective method of improving authentication security.
- **Recommendation #3**
 - Record integrity solution should not be tied to a particular implementation. Opportunity to leverage cryptography provided by dual factor authentication.



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Questions



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