





Roles and Responsibilities Originator – Initiator of ACH Must be in compliance with the Rules Obtain/maintain authorizations Process lawful ACH entries Respond to NOCs (Notification of Changes)

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Roles and Responsibilities ODFI (Originating Depository Financial Institution) – Entrance to ACH Warrants Originator has authorization Warrants Originator is in compliance Processing entries timely and accurately ACH record retention Responsible for all actions of the Originator Annual ACH audit

Roles and Responsibilities ACH Operator – Network Processor Federal Reserve or Electronic Payments Network (EPN) Processes and delivers ACH files Facilitates settlement Record retention Monitor network Systemic risk manager

Roles and Responsibilities • RDFI – (Receiving Depository Financial Institution) – Destination Financial Institution - Acceptance of entries - Proper entry handling - Funds availability - Transaction reporting - Record retention - Meets deadlines (posting or returning) - ACH audit

Roles and Responsibilities

Receiver – Destination Account Holder (consumer/company)

Authorizes ACH entries

Review account statements

Meet error resolution deadlines

Notify Originator of revoked authorizations

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Data Security

- Policy Statement originally adopted November 13, 1986
 Revised June 9, 2010
- Participants on an ongoing basis, should stay abreast of the new data security techniques and their applicability to the ACH Network to ensure a high level of quality and reliability to all users.



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What is Corporate Account Takeover?

- "Corporate Account Takeover" is when cyber-thieves gain control of a business' bank account by stealing the business' valid online banking credentials.
- A business can become infected with malware via infected documents attached to an email or link contained within an email that connects to an infected website.

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What is Corporate Account Takeover?

- Mimicking a reputable, national organization is a common tactic used by cyber-thieves to gain credibility and lure unsuspected individuals into taking some action
 - UPS
 - US Treasury
 - NACHA
 - ABC Bank
 - Virus Software



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What is Corporate Account Takeover?

- Criminals access the company's ACH origination program to send credits to another financial institution (Remember- credits carry the ODFI's warranty that the credit is authorized and Rules do not allow for "holds")
- Corporate Account Takeover is the term NACHA uses to describe this type of fraud



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Why are Small Businesses Targeted?

- Many small businesses have the capability to initiate funds transfers, ACH credits and wires via online banking
- Small businesses often do not have the same level of resources as larger companies to defend their information technology systems
- Many small businesses do not utilize additional banking services
- Are you reconciling on a daily basis??



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Malware/Trojans

- Ligats botnet
 - Ligats malware used to steal credentials
- Avalanche botnet
 - "Fast flux" botnet
 - Used to distribute Zeus trojan
- Zeus variant
 - Known as "Jabber Zeus"
 - Can defeat multi-factor authentication

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Authentication in an Internet Banking Environment Gramm-Leach-Billey Act – requires FIs to safeguard consumer banking information USA PATRIOT Act – requires FIs to identify customers looking to open a new account UCC4A – Governs the contract between an Originator and the ODFI and requires ODFIs to use "commercially reasonable" security to verify the authenticity of an ACH File E-sign Act – Establishes the legal equivalence between contracts written on paper and contracts in electronic form

Authentication in an Internet Banking Environment

- In their 2005 guidance the FFIEC (Federal Financial Institutions Examination Council) states single factor authentication (PIN and Password) for high risk transactions is not enough
- "Authentication techniques should be appropriate to the risk associated with offered products and services"
- They recommend "Multifactor authentication or layered security"

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Authentication in an Internet Banking Environment

- Consistent with the FFIEC Information Technology Examination Handbook your FI should;
 - Identify and assess the risk associated with Internetbased products and services
 - Identify risk mitigation actions, including appropriate authentication strength
 - Measure and evaluate customer awareness efforts
 - Adjust, as appropriate, their information security program with changes in technology
 - Implement appropriate risk mitigation strategies

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Authentication in an Internet Banking Environment

- Recommendations for authentication methodologies include:
 - Something the user knows (PIN and Password)
 - Something the user has (token ID or UBS device)
 - Something the user is (biometric characteristic)
 - Out of Band verification (Fax or call back)



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Authentication in an Internet Banking Environment

- Device Identification
 - A cookie loaded onto the customers computer
 - Issue cookies can be copied and pasted onto the fraudster's PC to replicate the point of origination. A more complex digital identification may resolve some of these issues by checking things like device configuration
 - Challenge Questions
 - Issue key-logging software may enable the fraudster to capture the "answer" provided in previous sessions, and certain answers may be easily assessable via the internet. Out-of-wallet questions that do not rely on information that is easily assessable and multiple questions asked at random may alleviate some of these issues

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Authentication in an Internet Banking Environment

- Layered Security Programs may include (but are not limited to);
 - Fraud detection and monitoring systems
 - Dual customer authorization through different access devices
 - The use of out-of-band verification
 - The use of "positive pay" debit blocks and other techniques
 - Enhanced controls over account activities
 - IP reputation-based tools

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What can your FI do to help? Strong authentication such as tokens Anomalous/fraudulent transaction detection** Out-of-band transaction authentication Customer education and awareness What should YOU the Originator do Use stand-alone system for on-line banking Reconcile all banking transactions on a daily basis Limit administrative rights on users' workstations to

prevent the inadvertent downloading of malware

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What Else....? Prevention at the Customer Site Delete emails from unknown sources Install latest version of browser software Use dual control for ACH file initiation Review transactions daily Disable workstation administration rights Keep anti-virus software up to date, install patches Use second path for confirmation of file receipt One recommended path – a fax from Originator to ODFI confirming a file was sent (but only if fax is not PC based)

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Additional ACH Fraud Prevention for Originators Daily Account Balancing/Reconciling When there is a problem contact your Financial Institution ACH Debit Block Filters Positive Pay

Handling an incident

- Develop procedures now Do not wait for an incident to try and figure out what to do
- Educate your staff All staff who may receive communication about an incident must understand your procedures on proper escalation
- Assign a point person or "Central Control" decide who will be responsible for proper incident response
- Don't point fingers there will be time to figure out what happened later, address the issues first

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Handling an incident



- Fix the problem Immediately suspend your on-line access with your financial institution
 - Check for other Originated files in queue
- Call for help
 - Your financial institution will contact all RDFIs to see if originated items can be returned
 - Willingly send Letters of Indemnity
 - Create a Reversal File if necessary
- Kill the bug Discontinue use of infected computer
 - A professional cleaning may not be enough
 - New PC???

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Incident Reporting

- File a police report
- FS-ISAC (Financial Services Information Sharing & Analysis Center) recommends:
 - FS-ISAC Suspicious Incident Report
- FBI recommends
 - Call FBI
 - www.fbi.gov
 - Report to Internet Crime Complaint Center
 - www.ic3.gov
- File a SAR when required

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ACH Data Breach Notification Requirements Consumer Level ACH Data Notification to NACHA and RDFIs Timeframe to Notify



