

**ARKANSAS STATE BANK DEPARTMENT  
EXAMINATION POLICY**

Policy Number	13-01
Effective Date	04-01-13
Supersedes	_____
Approval	_____

**SUBJECT: Best Practices for Banks – Reducing the Risks of Corporate Account Takeovers**

**Best Practices for Banks  
Reducing the Risks of Corporate Account Takeovers**  
(Developed by the Texas Bankers Electronic Crimes Task Force)



Corporate Account Takeover is a form of business identity theft where cyber thieves gain control of a business' bank account by stealing employee passwords and other valid credentials. Thieves can then initiate fraudulent wire and ACH transactions to accounts controlled by the thieves.

Businesses across the United States have suffered large financial losses from electronic crimes through the banking system. These thefts have ranged from a few thousand to several million dollars. They have occurred in banks of all sizes and locations. And, they may not be covered by the bank's insurance. Along with the financial impact, there is also a very high level of reputation risk for financial institutions.

Recognizing the importance of having banker developed practices specifically to assist the banking industry, the Conference of State Bank Supervisors (CSBS) and the Financial Services - Information Sharing and Analysis Center (FS-ISAC) have joined with the United States Secret Service (US Secret Service) and Texas Department of Banking to make practices for mitigating the risks of Corporate Account Takeover available to financial institutions nationwide.

The Texas Bankers Electronic Crimes Task Force (Task Force) was formed by the Texas Banking Commissioner in cooperation with the US Secret Service. The Task Force is composed of operational executives from a diverse group of banks in terms of size, complexity, and market environment. Members also include the Independent Bankers Association of Texas, the Texas Bankers Association, and SWACHA. The Texas Department of Banking's Chief IT Security Examiner serves as a liaison member.

The Task Force developed a list of nineteen processes and controls for reducing the risks of Corporate Account Takeovers. These processes and controls expand upon a three-part risk management framework developed by the FS-ISAC, the US Secret Service, the Federal Bureau

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of Investigation, and the Internet Crime Complaint Center (IC3)<sup>1</sup>. Fundamentally, a bank should implement processes and controls centered on three core elements: Protect; Detect; and Respond.

The Task Force has also compiled a set of best practices for each of the recommended processes and controls under the Protect, Detect, and Respond framework. These best practices are not an all-inclusive list and are provided as guidance to assist in implementing the nineteen processes and controls needed to reduce the risk of Corporate Account Takeover thefts. The Federal Financial Institutions Examination Council's (FFIEC) Supplement to Authentication in an Internet Banking Environment<sup>2</sup> (FFIEC Supplemental Guidance) issued on June 28, 2011, conveys minimum expectations which are noted within this document. It is important to remember that electronic crimes are dynamic as cyber criminals continually change their techniques. Additional changes in risk management processes and controls will be necessary as this type of theft continues to evolve.

*Supporting Organizations*

*Conference of State Bank Supervisors (CSBS): CSBS is the nationwide organization of banking regulators from all 50 states, the District of Columbia, Guam, Puerto Rico, and the U.S. Virgin Islands. State banking regulators supervise nearly 5,400 state-chartered financial institutions. For more than a century, CSBS has given state supervisors a national forum to coordinate supervision of their regulated entities and to develop regulatory policy. [www.csbs.org](http://www.csbs.org)*

**Financial Services – Information Sharing and Analysis Center (FS-ISAC):** The FS-ISAC was launched in 1999 by the financial services sector in response to 1998's Presidential Directive 63. That directive mandated that the public and private sectors share information about physical and cyber security threats and vulnerabilities to help protect the U.S. critical infrastructure. The FS-ISAC is uniquely positioned to quickly disseminate physical and cyber threat alerts and other critical information, including analysis and recommended solutions from industry experts. The Treasury and Department of Homeland Security rely on the FS-ISAC to disseminate critical information to the financial services sector in times of crisis. [www.fsisac.com](http://www.fsisac.com)

**United States Secret Service (US Secret Service):** The mission of the US Secret Service is to safeguard the nation's financial infrastructure and payment systems to preserve the integrity of the economy, and to protect national leaders, visiting heads of state and government, designated

<sup>1</sup> Refer to the jointly issued "Fraud Advisory for Businesses: Corporate Account Takeover" available on the IC3 and FS-ISAC websites (<http://www.ic3.gov/media/2010/corporateaccounttakeover.pdf>) or the FS-ISAC website (<http://www.fsisac.com/files/public/db/p265.pdf>).

<sup>2</sup> The FFIEC Guidance is available at [http://www.ffiec.gov/pdf/Auth-ITS-Final%206-22-11%20\(FFIEC%20Formatted\).pdf](http://www.ffiec.gov/pdf/Auth-ITS-Final%206-22-11%20(FFIEC%20Formatted).pdf)

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sites and National Special Security Events. In 2001 the USA PATRIOT Act mandated the Secret Service to establish and maintain a nationwide network of electronic crime task forces (ECTFs). The goal of the ECTFs is to establish, promote and continue robust public/private partnerships based on the Secret Service’s historic strategic alliances with federal, state and local law enforcement agencies, private industry and academic institutions. The ECTFs respond, confront and suppress cybercrime, malicious uses of cyberspace, and threats to cyber security which endanger the integrity of our nation’s financial payments systems and critical infrastructure. [www.secretservice.gov](http://www.secretservice.gov)

**Texas Department of Banking:** With over 100 years of service to the citizens of Texas, the Department of Banking is entrusted with ensuring the safety of the public’s money held by businesses that provide financial services and with ensuring that a competitive financial services system exists. The Department conducts examinations of entities under its supervision to ensure they operate in a safe and sound manner and are in compliance with state and federal laws. The Department’s supervisory authority extends to over 1,178 financial service providers that control approximately \$404.2 billion in financial assets as of December 31, 2011. [www.dob.texas.gov](http://www.dob.texas.gov)

Overview of Processes and Controls for Reducing the Risks of Corporate Account Takeovers

**PROTECT**

Implement processes and controls to protect the financial institution and corporate customers.

- P1.** Expand the risk assessment to include corporate account takeover.
- P2.** Rate each customer (or type of customer) that performs online transactions.
- P3.** Outline to the Board of Directors the Corporate Account Takeover issues.
- P4.** Communicate basic online security practices for corporate online banking customers.
- P5.** Implement/Enhance customer security awareness education for retail and high risk business account holders.
- P6.** Establish bank controls to mitigate risks of corporate accounts being taken over.
- P7.** Review customer agreements.
- P8.** Contact your vendors to regularly receive information regarding reducing the risk of Corporate Account Takeovers.

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**DETECT**

Establish monitoring systems to detect electronic theft and educate employees and customers on how to detect a theft in progress.

- D1.** Establish automated or manual monitoring systems.
- D2.** Educate bank employees of warning signs that a theft may be in progress.
- D3.** Educate account holders of warning signs of potentially compromised computer systems.

**RESPOND**

Prepare to respond to an incident as quickly as possible (measured in minutes, not hours) to increase the chance of recovering the money for your customer.

- R1.** Update incident response plans to include Corporate Account Takeover.
- R2. Immediately** verify if a suspicious transaction is fraudulent.
- R3. Immediately** attempt to reverse all suspected fraudulent transactions.
- R4.** Send a “Fraudulent File Alert” through FedLine.
- R5. Immediately** notify the receiving bank(s) of the fraudulent transactions and ask them to hold or return the funds.
- R6.** Implement a contingency plan to recover or suspend any systems suspected of being compromised.
- R7.** Contact law enforcement and regulatory agencies once the initial recovery efforts have concluded.
- R8.** Implement procedures for customer relations and documentation of recovery efforts.

**BEST PRACTICES FOR REDUCING THE RISKS OF  
CORPORATE ACCOUNT TAKEOVERS**

**I. Protect**

**P1. Expand the risk assessment to incorporate Corporate Account Takeover.**

The risk assessment should include risks of Corporate Account Takeovers and be reviewed/updated at least annually for threats and risks related to online payment services. After

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the risk assessment is updated, an analysis should be made to identify the bank’s existing controls that need to be updated or controls that need to be implemented to achieve compliance with regulatory guidance. A sample Corporate Account Takeover risk assessment is available electronically on the Electronic Crimes Task Force page of the Conference of State Bank Supervisors website, [www.csbs.org/ec/cato](http://www.csbs.org/ec/cato).

An effective risk management assessment should:

1. Define the scope and complexity of the institution’s payment and online banking services, noting any changes since the prior risk assessment;
2. Identify what functionality is offered or has changed regarding:
  - a. Online wire transfers;
  - b. Online ACH origination;
  - c. Online bill payments;
  - d. Delivery channels (such as mobile banking or remote deposit capture);
3. Assess if transaction limits have been set within the automated system and if those limits are appropriate;
4. Present a clear understanding of the bank’s:
  - a. Customer segmentation (e.g., number of business customers or types of customers adopting online banking) and any changes that have occurred;
  - b. Customer utilization of online banking services - type and extent; and
  - c. Expected electronic payment volumes (size and frequency of wires and ACH origination files – both the average and peak volumes);
5. Assess reliance on third-party service providers for electronic payment processing and delivery of online banking services<sup>3</sup>;
6. Determine and assess on-going customer education and training practices;
7. Identify and assess all “automated pass-through” payment processing activities (e.g. online, real-time instructions for wire/ACH transactions that are automatically passed to the payment system operator, usually the Federal Reserve Bank, for processing or that are automatically passed to a bill payment system) and assess practices for reviewing automated anomaly detection alerts;
8. Identify and assess manual controls (and/or any automated anomaly detection) used to evaluate transactions that are not automatically sent to processor;
9. Determine the ability of corporate customers to correct, update, or change (“uninitiate”) a transaction without further confirmation/authentication of the final transaction’s instruction;

<sup>3</sup> Obtain the vendor’s assessment of potential weaknesses of their delivery services as well as the controls they recommend and evaluate any mitigation services they provide. (The vendor’s analysis is only one part of the bank’s own analysis.)

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- 10. Assess the training and awareness of bank employees that process incoming transfer instructions, as well as the adequacy of staffing for these activities;
- 11. Assess the competency of bank staff responsible for sustaining adequate risk management practices related to ever evolving electronic payment risks, which includes considering available resources such as service providers and security and audit vendors;
- 12. Identify the most significant types of fraud being experienced by the industry and the emerging threats;
- 13. Evaluate the degree to which IT security training is provided to all employees including bank managers and front line customer contact employees. (Is there a strong corporate culture of security?); and
- 14. Assess the need for electronic theft insurance. If this type of insurance has been purchased, contact insurance carrier to determine if there are any required controls. Evaluate compliance with those controls.

**P2. Rate each customer (or type of customer) that performs online transactions.**

It is important to know the level of risk associated with customers using online banking services and especially to know those customers that are high risk. While the focus of these best practices are on corporate accounts that perform online wire and ACH transactions, any customer with any online transaction capability (including bill payments) should be evaluated for risk. Additionally, the FFIEC Supplemental Guidance applies to both business and consumer accounts. Reviews for risk rating customers should be conducted at least annually and documented. There are many different methods and formats that can be used based on the bank’s size and resources. A bank may choose to simply rate all consumer customers using bill payment services with low transaction amounts and a low volume limit at a lower risk category than corporate customers. Another option would be to rate as high risk all corporate customers with certain online capabilities. In this case, “individually documented” reviews to determine the risk rating of each customer would not be necessary. However, banks with a moderate or small number of corporate customers may choose to rate their customers individually.

The following criteria could be used for risk rating a customer:

- 1. Type of business:
  - a. Domestic versus International; and
  - b. Retail versus wholesale;
- 2. Average Account Balances (loans and deposits);
- 3. Services Utilized:
  - a. Wire transfer;

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- b. ACH debit origination files<sup>4</sup>;
- c. ACH credit origination files; and
- d. Bill payment;
- 4. Standard Entry Class (SEC) codes assigned to customer’s transactions<sup>5</sup>;
- 5. Volume of transactions<sup>6</sup>;
- 6. File Limits/Frequency<sup>7</sup>;
- 7. Security measures the business account holders utilize (see section P4 below); and
- 8. Business account holder’s administrative controls over their users and system configurations.<sup>8</sup>

**P3. Outline to the Board of Directors the Corporate Account Takeover issues.**

The Board of Directors should be informed of the risks and controls related to Corporate Account Takeovers and provided with examples of the highest risk customers. This can be accomplished through the following actions.

- 1. Provide a general description of this crime, how it occurs, and losses experienced in the United States<sup>9</sup>.
- 2. Provide a list of high risk business account holders with their estimated exposure.
  - a. If all account holders have not been risk rated when the report to the Board is made, specify a few of the business customers at greatest risk or list an approximate number of business account customers in the bank’s highest category of risk.
  - b. If the list of applicable account holders is large, provide summary information and a few examples.
- 3. Describe the primary measures the bank will be implementing, or has already implemented within the Protect, Detect, and Respond framework.
- 4. Discuss the action plan and time frames for fully implementing each portion of the Protect, Detect, and Respond framework and for implementing the controls that are needed to meet the minimum expectations in the FFIEC Supplemental Guidance.

<sup>4</sup> Debit files could be used to “fund” a theft from the same account.  
<sup>5</sup> SEC codes such as PPD (Prearranged Payment and Deposit Entry) and CCD (Cash Concentration and Disbursement) could have more risk than other transaction codes.  
<sup>6</sup> Thefts are easier to hide among a high volume of transactions.  
<sup>7</sup> Establishing file limits and frequency are a NACHA requirement and help quantify financial exposure.  
<sup>8</sup> FFIEC supplemental guidance establishes a minimum expectation regarding enhanced controls for system administration. See section P6 for further details. Administrative controls are of such extremely high risk that if a bank chooses to permit a customer to make administrative changes such as adding new general users, adding administrative users, changing transaction and approval limits, changing passwords, changing customer contact number or method, and disabling notification options, the changes should not be implemented without verification by the bank or at least without notification to the customer (preferable by an out-of-band method) that a change has been made.  
<sup>9</sup> An Internet search for “account takeover law suits” will provide numerous articles with examples of these thefts.

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**P4. Communicate basic online security practices for corporate online banking customers.**

The vast majority of cyber thefts begin with the thieves compromising the computer(s) of the business account holders. Perpetrators often monitor the customer’s email messages and other activities for days or weeks prior to committing the crime. The corporate customer is most vulnerable just before a holiday when key employees are on vacation. Another risk period is on a day the business office is relocating or installing new computer equipment. Employees may be distracted and think a problem conducting online banking is due to a new network or equipment. Therefore it is important and necessary for the corporate customer’s employees to follow established security practices. The bank should periodically communicate to the business account holders some or all of the following security practices that the business can implement to reduce their risks of theft. Basic practices to implement include:

1. Provide continuous communication and education to employees using online banking systems. Providing enhanced security awareness training will help ensure employees understand the security risks related to their duties;
2. Update anti-virus and anti-malware programs frequently;
3. Update, on a regular basis, all computer software to protect against new security vulnerabilities (patch management practices);
4. Communicate to employees that passwords should be strong and should not be stored on the device used to access online banking;
5. Adhere to dual control procedures;
6. Use separate devices to originate and transmit wire/ACH instructions;
7. Transmit wire transfer and ACH instructions via a dedicated and isolated device<sup>10</sup>;
8. Practice ongoing account monitoring and reconciliation, especially near the end of the day;
9. Adopt advanced security measures by working with consultants or dedicated IT staff; and
10. Utilize resources provided by trade organizations and agencies that specialize in helping small businesses. See [Appendix A](#) for a list of resources.

**P5. Implement/Enhance customer security awareness education for retail and high risk business account holders.**

The FFIEC Supplemental Guidance states that security awareness education should address both business and retail account holders. The effectiveness of the education program and the need for updates due to changes in technology products and security threats should be evaluated at least annually, if not more frequently due to the ever evolving nature of cyber-crime. The extent of security awareness education may vary between customers with different risk ratings. Options

<sup>10</sup> Block access to web surfing, social network sites, and external e-mail and any activity not related to banking

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for contacting customers include one-on-one or small group meetings, postal mail, email, notices on the bank’s website, and telephone calls. Presentations at civic organizations will also be beneficial. Security and audit vendors as well as state trade associations could be a good source of developed presentation programs. Additionally, a sample presentation developed by the Task Force for educating account holders is available at [www.csbs.org/ec/cato](http://www.csbs.org/ec/cato).

In addition to the basic online security practices mentioned in section P4 above, security awareness education for both retail and business customers could include:

1. Procedures or user guidelines for using the bank’s corporate internet banking service;
2. System security features that are available and/or that have been implemented;
3. Procedures to alert bank staff (including specific phone numbers and departments) when the account holder suspects a problem;
4. Bank policy regarding when, why and how the bank will contact online banking customers<sup>11</sup>;
5. Protections provided and applicability of Regulation E to electronic funds transfers and the types of accounts with Internet access<sup>12</sup>;
6. Common security threats and actions to take in order to prevent, detect, and respond to those cyber threats (See [Appendix B](#) for examples);
7. Security education resources for the customer (See [Appendix A](#)) and resources that help customers keep abreast of new and emerging issues, such as online security magazines and security vendor websites;
8. Developing an incident response plan (See [Appendix C](#)); and
9. Applicability of laws and regulations to business owners to safeguard information. (See [Appendix D](#)).

Additionally, high risk customers should be specifically contacted and made aware of their exposure to electronic theft. In particular, they should be made aware of:

1. Corporate account takeovers and cyber thieves;
2. Exposure risks;
3. Recommended minimum security measures to implement (See P4 above);
4. Benefits of the business performing a risk assessment regarding online payment services;
5. Insurance coverage needs related to electronic thefts; and
6. Other resources available on this topic are found in [Appendix A](#).

<sup>11</sup> Reiterate that the bank will not request account holders to click on links, install software, or require changes to established procedures without securely communicated notification. (Ensure that a bank policy prohibiting this practice has been adopted to help ensure conformance.)

<sup>12</sup> It is critical that customers understand the different applicability for business/commercial accounts versus personal accounts.

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**P6. Establish bank controls to mitigate risks of corporate account takeovers.**

It is important to remember that no single control is effective. The FFIEC Supplemental Guidance establishes expectations for layered security controls which should include, at a minimum, the following two elements for both business and consumer accounts.

1. Processes to detect anomalies and respond to suspicious activity<sup>13</sup> related to:
  - a. Initial login and authentication for access to online banking; and
  - b. Initiation of transactions to transfer funds to other parties.
2. Enhanced controls for system administrators who can change access privileges, add users, change or reset passwords, add new payees, change transaction limits, change time of day access, register new access devices, etc.

Banks will need to work with their IT vendors to ensure that these two elements are in place or will be within a satisfactory time period.

Layered security consists of multiple controls, which may include:

1. Enhanced controls over account administration (an FFIEC minimum expectation) may include:
  - a. Requiring an additional authentication prior to implementing the change;
  - b. Requiring verification/confirmation of changes prior to implementing them;
  - c. Providing automatic customer notification (such as a text message or automated voice call to a cell phone) immediately after implementing an administrative change;
  - d. Preventing account holders from creating administrative users without bank approval; and
  - e. Eliminating all self-administration if the corporate customer doesn't meet minimum security standards established by the bank.
2. Screen display that shows customers the number of failed logins since the prior successful login and the date and time of their last login;
3. Fraud-detection and monitoring systems;
4. Dual customer authorization through different access devices;
5. Out-of-band verification of transactions (to/from a different access device);
6. Techniques to restrict transactions such as debit blocks, and debit filters;

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<sup>13</sup> Account monitoring and fraud detection systems should flag transactions for further review. These systems could consider customer transaction history and transaction behavior, including pattern recognition that compares transactions to historical files, unusual amounts, unusual destinations (especially foreign recipients if the customer does not engage in international business), and changes in routing and account numbers of usual recipients (even when the recipient name is not changed). Changes to established cumulative daily limits or transactions in excess of established limits should also be identified by fraud systems as potentially fraudulent activity.

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7. Restrictions on account activity such as reasonable limits (based on historic activity) on transaction values, daily limits, who may receive funds, and time of day (and day of week) that high risk transactions such as wires and ACH originations may be initiated;
8. Tools that block connection from IP addresses known or suspected to be associated with fraudulent activities;
9. Policies to address potentially compromised customer equipment;
10. Enhanced controls (similar to those in #1 above) over account maintenance activities such as changes to postal and email addresses, phone numbers, and passwords, regardless if they are performed online, by mail, or by phone;
11. Customer security awareness education;
12. Use of USB devices that are read only and which function independently of the customer's computer's operating system, ensuring a secure connection to the bank's network; and
13. Enhanced challenge questions<sup>14</sup> which would:
  - a. Use sophisticated questions ("out of wallet" information that isn't publically available);
  - b. Require more than one question be answered correctly;
  - c. Include "trap" questions which the customer would recognize as nonsensical and clearly know the answer but a thief could easily guess a wrong answer<sup>15</sup>;
  - d. Establish a large pool of challenge questions; and
  - e. Prohibit the exposure of all challenge questions during one session.

For internal protection, the bank should ensure, at a minimum, the following controls:

1. An effective firewall and a process to evaluate, monitor, and validate firewall settings (and revise if necessary) on an appropriate schedule;
2. An effective patch management program that assesses patch effectiveness and implementation at least monthly; and
3. Additional security measures for computers used internally to access or manage the cash management system should include many of the controls recommended for customers that are listed in section P4.

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<sup>14</sup> The FFIEC's Supplemental Guidance on Internet authentication dated June 28, 2011 states that financial institutions should no longer consider basic challenge questions an effective primary control.

<sup>15</sup> A trap question (also known as a "Red Herring" question) could be something like the following for a customer that never lived in Dallas, Texas: *When did you live in Dallas, Texas?* A) 1976; B) 1980; C) 1983; D) *None of the above*. Any answer other than D is a strong indication that the customer's account has been compromised and appropriate bank and customer personnel should be alerted.

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**P7. Review customer agreements.**

Signed written agreements should be maintained with corporate customers using online banking services. Given the growing risks of corporate account takeovers, banks should have legal counsel that is familiar with corporate account takeover risks review their written agreements and consider including the following:

1. Roles and responsibilities for processing transaction requests and dispute resolution;
2. Minimum security standards that the bank requires the corporate account holder to use<sup>16</sup>;
3. A disclaimer and acknowledgement that no list of security practices can be all inclusive and foolproof for preventing theft;
4. The establishment of exposure limits through transaction limits, transaction frequencies, and types of payments that can be processed during the customer's normal course of business. Also consider:
  - a. Including the process for changing limits;
  - b. Including a provision authorizing the bank to not honor a transaction request if the bank in its sole discretion believes not processing it will protect the account holder from fraud (include examples that might indicate a transaction is fraudulent); and
  - c. Making an annual disclosure of the account agreement terms, mentioning any changes, and including a pamphlet on security awareness;
5. A disclaimer (absent any warranty or indemnification) that the risk of loss resides with the account holder if a fraudulent payment order is received by the bank in compliance with the bank's normal security procedures;
6. Requirement that the customer provide a list of the employees that are authorized to initiate files, or if the account holder is controlling account administration and accessibility then an acknowledgement from the customer of their responsibility and liability; and
7. Provisions for settling contract disputes. Consider requiring arbitration to settle contract disputes, or include a provision that provides the account holder with warranties or indemnification against corporate account takeover thefts, providing the account holder has followed specific practices.

**P8. Contact your vendors to regularly receive information regarding reducing the risk of corporate account takeovers.**

Corporate account takeovers are a persistent threat and the techniques to commit this crime will continue to be modified. At least annually ask your vendors what controls they offer to reduce account takeover risks. However, more timely updated information on security threats is needed

<sup>16</sup> The written agreement could also include security procedures offered to the customer.

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for many banks. These banks should regularly obtain threat information from trusted sources, such as the FS-ISAC and major technology service providers. Document this as part of the bank’s annual risk assessment.

**II. Detect**

Detection primarily occurs through:

- 1. Automated or manual monitoring systems;
- 2. Bank employee awareness; and
- 3. Notification from customers (that are aware of symptoms of computer breaches).

Management should evaluate all detection options to implement those which are most practical. Detection is closely associated with protection, as some measures to protect against electronic theft will also be an indication that a theft is being attempted.

**D1. Establish automated or manual monitoring systems.**

Account monitoring can help detect a theft before money is actually transferred. The most effective automated monitoring systems implement behavior-based transaction monitoring, sometimes called pattern recognition. As outlined in P6 above, the FFIEC Supplemental Guidance expects banks to implement, at a minimum, processes to detect anomalies related to initial login to online banking and initiation of transactions to transfer funds to other parties.

Things to evaluate:

- 1. Is the volume of corporate online banking transactions low enough for manual reviews?
  - a. If so, are sufficient personnel (both as primary and as backup) available?
  - b. Can bank personnel develop manual procedures in a reasonable time period that evaluates key red flags listed in section D2 below?
- 2. Do current vendors offer or plan to offer automated transaction monitoring?
  - a. If so, will the monitoring detect the possible red flags listed in section D2 below?
  - b. What additional features or benefits do the vendors provide?
  - c. Can services be implemented within a reasonable time period?
  - d. How long does it take for the system to build a reliable pattern (predictive analytics) of activity to identify an anomaly?
  - e. Although less reliable than predictive analytics, is rule based fraud analysis available until a behavior pattern of data is established?

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- f. Does any behavior pattern analysis include monitoring account holder online behavior, such as keystroke speed, in addition to time of day activity or transaction based factors.
- g. Is potential structuring of transactions above preset limits detected as well as unusual frequency of transactions and abnormal time of activity (day of week and time of day)?
- 3. If current vendors do not offer automated monitoring, are there third-party vendor systems that will integrate with the bank’s current systems?
- 4. How are bank personnel notified if an automated system detects an anomaly?
  - a. Are “suspicious” transactions blocked until an employee releases them?
  - b. Do employees receive notification in a timely manner?

Transaction monitoring for large transactions is one of the most effective techniques for detecting fraudulent transactions. Banks with a limited number of corporate account holders can implement manual reviews and block suspicious transactions (or obtain further confirmation from their customer). A checklist of characteristics to review, such as those in D2, should be part of any manual review procedures to help ensure consistent evaluations.

**D2. Educate bank employees of warning signs that a theft may be in progress.**

Employee awareness is essential in the detection of fraudulent account activity. Employees are generally the first and last line of defense. Employees with corporate account holder contact and especially those that process ACH and wire transactions need to know the types of customer inquiries and other warning signs that could indicate a theft is underway. They should be aware that any problems customers are having accessing or contacting the bank electronically might be a multi-prong attack to either divert the bank’s attention from a theft in progress or to disrupt communications between the customer and the bank while the theft is occurring. Reviewing transaction security reports for unusual volume and dollar amounts is helpful and should be performed at least daily as some thefts occur over multiple days. However, this method only identifies a fraud after funds have left the bank.

A sample presentation to aid in educating bank employees was developed by the Task Force and is available at [www.csbs.org/ec/cato](http://www.csbs.org/ec/cato).

**Red flags visible to the bank of a possible takeover of a business account include:**

- 1. Configuration changes to cash management/online banking profiles:
  - a. New user accounts added;
  - b. New ACH batches or wire templates with new payees;
  - c. Changes to personal information;
  - d. Disabling or changing notifications; and

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- e. Changes to the online account access profile;
- 2. Unusual customer activity<sup>17</sup>:
  - a. Unfamiliar IP log-on address (especially if a foreign IP address);
  - b. Device ID not recognized during any previous log-on;
  - c. Log-on and/or viewing of balance or transaction history during unusual times of days;
  - d. Unusually small transaction amounts (example: \$1.00 ACH, bill pay, or other transactions – especially if made at unusual time of day);
  - e. Unusual non-monetary request from customer via fax, email, or cash management system.
  - f. Unusual (non-typical) transfer of funds, especially if out of the bank. One-time bill pay to new payees;
  - g. ACH or wires to new payees or receivers and/or with unusual amounts.
  - h. Changes to the account and routing numbers of existing payees, not just a new payee name;
  - i. Unusual timing of transactions (based on the established transaction schedule of the corporate customer or random transactions submitted between traditional transactions);
  - j. Larger than usual transactions; and
  - k. Overseas transfers;
- 3. Compromised internal systems used by bank employees resulting in:
  - a. Inability to log into online banking system (thieves could be blocking the bank’s access while they are making modifications to account settings);
  - b. Dramatic loss of computer speed;
  - c. Changes in the way web pages, graphics, text or icons appear;
  - d. Computer lock up so the user is unable to perform any functions;
  - e. Unexpected rebooting or restarting of computer;
  - f. Unexpected request for a one time password (or token) in the middle of an online session;
  - g. Unusual pop-up messages, such as “try back later” or “system is undergoing maintenance”;
  - h. New or unexpected toolbars and/or icons; and
  - i. Inability to shut down or restart.

<sup>17</sup> Generally, hackers will have done some type of monitoring/transaction testing of the corporate account before a monetary theft is made.

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In the event that any of the above items are noted, the bank’s network administrator and/or the online banking system operator should be contacted for further investigation.

**D3. Educate account holders of warning signs of potentially compromised computer systems. (This is similar to educating bank employees.)**

Account holders should be the most vigilant in monitoring account activity. They have the ability to detect anomalies or potential fraud prior to or early into an electronic robbery. If your bank offers some of the automated notification features mentioned in P6, remind your customers those are designed as flags for them to notify you if they think they may have been compromised. Business account holders should be alert for the same red flags related to computer and network anomalies as bank employees.

Warning signs visible to a business or consumer customer that their system/network may have compromised include:

1. Inability to log into online banking (thieves could be blocking customer access so the customer won’t see the theft until the criminals have control of the money);
2. Dramatic loss of computer speed;
3. Changes in the way things appear on the screen;
4. Computer locks up so the user is unable to perform any functions;
5. Unexpected rebooting or restarting of the computer;
6. Unexpected request for a one time password (or token) in the middle of an online session;
7. Unusual pop-up messages, especially a message in the middle of a session that says the connection to the bank system is not working (system unavailable, down for maintenance, etc.);
8. New or unexpected toolbars and/or icons; and
9. Inability to shut down or restart the computer.

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**III. Respond**

**R1. Update incident response plans to include corporate account takeover.**

An incident response plan should include actions for stopping a corporate account takeover and should be reviewed at least annually. Update the plan to include the following:

1. Designate a fraud response committee with a specific member as the central point of contact for cyber threats. Ensure that:
  - a. All bank employees know that any phone calls from customers that might be about a corporate account takeover must be transferred to the designated employee as soon as possible;
  - b. The designated employee knows to convene the fraud response committee to evaluate the situation and take appropriate action;
  - c. The designated employee has been given authority to take immediate action and reverse or block suspected transactions;
  - d. Multiple backup personnel are in place in the event that the designated employee is unavailable. (These thefts exploit reduced staffing of holiday and vacation periods.); and
  - e. Account holders have provided a primary and secondary contact person along with after-hours phone numbers that the bank can call to confirm activity that appears suspicious;
2. Identify the recovery time frame and resources needed, including:
  - a. Number of employees available and trained to attempt to recover the money;
  - b. Resources/skills needed by the designated central point of contact at the bank; and
  - c. Resources needed by the recovery team;
3. Address customer relations/communication during an incident. Include these steps:
  - a. Identify the bank staff permitted to speak to the customer.
  - b. Script the initial employee communication with the customer;
  - c. Confirm account holder is aware that the bank is not automatically accepting liability; and
  - d. Identify the bank staff permitted to speak to the media;
4. Include criteria for contacting computer forensic specialists to review appropriate equipment as well as contact information; and
5. Include and maintain contact information for regulatory agencies, the United States Secret Service and other law enforcement agencies. They should be contacted as early as possible but without diverting resources from the initial recovery effort.

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**R2. “Immediately” verify if a suspicious transaction is fraudulent.**

Bank employees should know how to contact account holder immediately. The customer’s primary and secondary contact information including after-hours phone numbers are critical, not email addresses.

**R3. “Immediately” attempt to reverse all suspected fraudulent transactions.**

A bank’s ability to recovery funds is reduced over time, measured in minutes, not hours. Thefts often include both wire transfer and ACH transfers, and could include other forms of transfers in the future. Be prepared to address all types. Have software available for immediate use to edit ACH files either onsite or through your correspondent or online banking vendor.<sup>18</sup> Be aware that the Federal Reserve Bank (FRB) has different “processing times” for transactions and reversals. Reversals are sometimes not processed until hours or days after a transaction has already been sent and it is too late to recover the funds. No fraudulent transactions should be sent for processing along with a reversing entry under the presumption that the “reversal” will cancel the processing instruction.

**R4. Send a “Fraudulent File Alert” through FedLine.**

Sending a “Fraudulent File Alert” through the Federal Reserve Bank (FRB)’s FedLine system may help prevent receiving banks from delivering funds to their customer (who is receiving stolen funds). In 2011 there were three steps to file an alert:

1. Contact the FRB Operations Center;
2. Fax or email the information to the FRB; and
3. Follow up to confirm the alert had been transmitted by the FRB.

FRB contact information and a sample form for notifying the FRB are included in [Appendix E](#).

**R5. “Immediately” notify the receiving bank(s) of the fraudulent transactions and ask them to hold or return the funds.**

Once cyber thieves have transferred the stolen money to another bank, the thieves will attempt to move the money out as rapidly as possible. A process/plan must be in place for notifying the bank(s) that has received the stolen money and requesting a hold on those funds. The following steps should be taken:

1. Locate phone numbers for bank ACH departments using the FRBs FedACH directory at [http://www.fededirectory.frb.org/search\\_ACH.cfm](http://www.fededirectory.frb.org/search_ACH.cfm);

<sup>18</sup> Some online banking systems create ACH files that include a large number of different customers. The ability to edit the file to remove fraudulent transactions so that the file can be sent for processing of the legitimate transactions of other customers is important. Often the fraudulent transactions occur near the cutoff time when there is not sufficient time to manually re-enter all of the legitimate transactions.

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2. Distribute the list of fraudulent transactions to a group of bank employees with calling assignments and instructions to call on the largest items first. Distribute the largest transactions among several employees to facilitate the quickest call-back on the largest transactions;
3. Remind bank employees making the phone calls that the employee at the receiving bank is crucial to recovery. If recovery effort is occurring after normal business hours or extends beyond normal business hours, ask the employee at the receiving bank for an after-hours phone number in case a call back is needed;
4. Document all calls with names, dates, and times;
5. Send a notice of fraudulent activity to the receiving bank(s). A sample form is available at [www.csbs/ec/cato](http://www.csbs/ec/cato). This sample form is **not** endorsed, recommended or required by the Conference of State Bank Supervisors, the Financial Services-Information Sharing and Analysis Center, the Texas Department of Banking or the United States Secret Service. It is provided because it may be useful as a starting point in drafting an appropriate notice of fraudulent activity, with the assistance of bank counsel.
6. If the receiving bank sees that a “Fraudulent File Alert” has arrived from the FRB, they may have greater confidence that not delivering the funds to their customer will not result in liability from their customer; and
7. If the receiving bank employee is reluctant to hold the funds, remind them that this is a theft and minutes are crucial in preventing the theft from being successful. Request to speak to a supervisor.

R6. Implement a contingency plan to recover or suspend any systems suspected of being compromised.

When a system is suspected of being compromised, it is important to close off the method being used to commit the crime.

1. If it appears that user credentials of your customer have been compromised, consider immediately disabling your account holder’s access to the online banking system.
2. If it appears that the bank’s network was compromised, consider shutting down all online corporate banking activity (if that is feasible).
3. Depending on the size of the theft and potential losses, consider having forensic analysis performed on all suspected compromised systems as soon as possible to determine where, when and how the compromise occurred<sup>19</sup>. Consider paying for the analysis of your account holder’s system to help in the bank’s discovery of how the crime was committed.

<sup>19</sup> The bank’s contingency plan needs to include the names of the firms to use for forensic analysis as well as primary and secondary contacts and after hours phone numbers. Perform a review of these vendors in advance. There isn’t time to find or fully evaluate a company when a situation occurs. Trade associations and other technology related service-providers may be a good reference source.

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R7. Contact law enforcement and regulatory agencies once the initial recovery efforts have concluded.

Law enforcement and regulatory agencies should be contacted once initial recovery efforts are complete. Have these agency contact numbers available in advance. In addition, a Suspicious Activity Report must be filed with the Financial Crimes Enforcement Network (FinCEN). Agencies to contact include:

1. United States Secret Service (or other federal law enforcement agency)<sup>20</sup>;
2. State and local law enforcement; and
3. State and federal bank regulatory agencies.

R8. Implement procedures for customer relations and documentation of recovery efforts.

Since the account holder can be the victim of a large theft, proper handling of the incident is important for customer relations, financial liability, and potentially public relations. Procedures should be in place regarding contacting customers and documenting all discussions. It is important to keep in mind that when an electronic theft is initially discovered, the source of the compromise is sometimes unknown.

1. Designate one employee in the bank as the central point of contact for communicating with the account holder and have a prepared script of the actions the bank is taking to retrieve their funds.
2. Document account holder discussions (note names, date, and times), especially how and when the account holder believes the compromise began.
3. Reassure account holders that the bank is diligently working towards a full recovery of the funds; however, there is no guarantee that a full recovery will be achieved.

<sup>20</sup> Contact your local United States Secret Service field office ([http://www.secretservice.gov/field\\_offices.shtml](http://www.secretservice.gov/field_offices.shtml)) or the Secret Service's local Electronic Crimes Task Force (<http://www.secretservice.gov/ectf.shtml>). Contact information for the local FBI field office can be found at <http://www.fbi.gov/contact-us/field/field-offices>. You may also want to file a complaint with the Internet Crime Complaint Center ([www.ic3.gov](http://www.ic3.gov)).

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**RELATED ISSUES – MONEY MULES**

**Identifying Potential Money Mule Activity<sup>21</sup>**

While it is important to prevent and detect thefts from your own corporate customers’ accounts, it is also important to monitor for thefts that might be passing through your bank through a money mule account.

Warning signs that a bank customer could potentially be a money mule include:

1. New accounts opened with small deposit followed shortly by larger transfers via ACH or wire;
2. J-1 Visa student accounts receiving (unusually) large transfers;
3. New/unusual sources of transferred funds;
4. An existing account with a sudden increase in the number and dollar amount of deposits by ACH credit or wire transfer; and
5. An account that receives a large deposit followed by an immediate withdrawal, or around 10% less than the original deposit.
6. Destination of the monetary transfer that is not typical for the customer

**Internal Controls**

Certain internal controls can be implemented should your bank be used to move stolen money through a money mule account. Consider the following controls:

1. Establish a central point of contact (and backup) for working with other banks that have account holders that have been victimized;
2. Determine how holds, returns and withdrawals/transfers will be allowed;
3. Determine what documentation will be required before holding or returning funds;
4. Evaluate the history of the account holder that is receiving the potentially stolen funds to determine if the incoming transactions are consistent with prior banking history; and
5. Identify any red flags indicating that the account is or has become a “money mule” account (see above).

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<sup>21</sup> Evaluate policies for options to close accounts used to transfer stolen funds to thieves, commonly called “money mule” accounts. Educate bank employees on the characteristics of money mule accounts. Money Mules are often existing account holders that have been recruited through postings of legitimate sounding job offers on popular Internet job sites. However, the “employer” (cyber thief) asks the money mule to receive and then quickly transfer money to another bank; Money Mules are involved in money laundering; and Money Mules may claim to be unaware (and in some cases may actually be unaware) that they are facilitating a theft.

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**APPENDIX A**

**Resources for Business Account Holders**

1. The Better Business Bureau’s website on Data Security Made Simpler:  
<http://www.bbb.org/data-security>;
2. The Small Business Administration’s (SBA) website on Protecting and Securing Customer Information:  
<http://community.sba.gov/community/blogs/community-blogs/business-law-advisor/how-small-businesses-can-protect-and-secure-customer-information>;
3. The Federal Trade Commission’s (FTC) interactive business guide for protecting data:  
<http://www.ftc.gov/bcp/edu/multimedia/interactive/infosecurity/index.html>;
4. The National Institute of Standards and Technology’s (NIST) Fundamentals of Information Security for Small Businesses: <http://csrc.nist.gov/publications/nistir/ir7621/nistir-7621.pdf>;
5. The jointly issued “Fraud Advisory for Businesses: Corporate Account Takeover” from the U.S. Secret Service, FBI, IC3, and FS-ISAC available on the IC3 website (<http://www.ic3.gov/media/2010/CorporateAccountTakeOver.pdf> ) or the FS-ISAC website (<http://www.fsisac.com/files/public/db/p265.pdf>); and
6. NACHA – The Electronic Payments Association’s website has numerous articles regarding Corporate Account Takeover for both financial institutions and banking customers:  
[http://www.nacha.org/c/Corporate\\_Account\\_Takeover\\_Resource\\_Center.cfm](http://www.nacha.org/c/Corporate_Account_Takeover_Resource_Center.cfm) .

**APPENDIX B**

**Examples of Deceptive Ways Criminals Contact Account Holders**

1. The FDIC does **not** directly contact bank customers (especially related to ACH and Wire transactions, account suspension, or security alerts), nor does the FDIC request bank customers to install software upgrades. Such messages should be treated as fraudulent and the account holder should permanently delete them and not click on any links.
2. Messages or inquiries from the Internal Revenue Service, Better Business Bureau, NACHA, and almost any other organization asking the customer to install software, provide account information or access credentials is probably fraudulent and should be verified before any files are opened, software is installed, or information is provided.
3. Phone calls and text messages requesting sensitive information are likely fraudulent. If in doubt, account holders should contact the organization at the phone number the customer

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obtained from a different source (such as the number they have on file, that is on their most recent statement, or that is from the organization’s website). Account holders should not call phone numbers (even with local prefixes) that are listed in the suspicious email or text message.

**APPENDIX C**

**Incident Response Plans**

Since each business is unique, customers should write their own incident response plan. A general template would include:

1. The direct contact numbers of key bank employees (including after hour numbers);
2. Steps the account holder should consider to limit further unauthorized transactions, such as:
  - a. Changing passwords;
  - b. Disconnecting computers used for Internet banking; and
  - c. Requesting a temporary hold on all other transactions until out-of-band confirmations can be made;
3. Information the account holder will provide to assist the bank in recovering their money;
4. Contacting their insurance carrier; and
5. Working with computer forensic specialists and law enforcement to review appropriate equipment.

**APPENDIX D**

**Information Security Laws and Standards Affecting Business Owners**

Although banks are not responsible for ensuring their account holders comply with information security laws, making business owners aware of consequences for non-compliance if the information is breached can reinforce the message that they need to maintain stronger security. Breaches of credit and debit card information from retail businesses are common. Loss of that information or sensitive personal information can create financial and reputational risks for the business.

When providing security awareness education to corporate customers, banks may want to also alert business owners of the need to safeguard their own customers’ sensitive information. State statutes related to safeguarding customer information could be provided as part of the education process.

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The Payment Card Industry Security Standards Council was launched in 2006 to manage security standards related to card processing. Any merchant that accepts credit or debit cards for payment is required to secure their data based on the standards developed by the council. The PCI Security Standards Council’s website [https://www.pcisecuritystandards.org/security\\_standards/index.php](https://www.pcisecuritystandards.org/security_standards/index.php) notes that noncompliance may lead to lawsuits, cancelled accounts, and monetary fines. The website provides information for small business compliance.

**APPENDIX E**

**Procedures for Sending a Fraudulent ACH File Alert Request to the Federal Reserve Bank**

The following information is valid as of September 2011. Banks should update their FRB contact information at least annually as part of updating their incident response plan.

**1. Contact FRB Operations and/or your representative with the Federal Reserve.**

Contact information for FEDACH Central Operations Support can be located on the Federal Reserve Bank Services website @ [www.frbservices.org/contactus/fedach\\_operations.html](http://www.frbservices.org/contactus/fedach_operations.html).

Contact information for FRB Account Executives can be located on the Federal Reserve Bank Services website @ [www.frbservices.org/contactus/sales\\_account\\_executives.html#](http://www.frbservices.org/contactus/sales_account_executives.html#).

**2. Fax or email the following information to your Federal Reserve contact.**

The following sample form is not endorsed, recommended or required by the Conference of State Bank Supervisors, the Financial Services-Information Sharing and Analysis Center, the Texas Department of Banking or the United States Secret Service. It is provided because it may be useful as a starting point in drafting an appropriate fraudulent ACH file alert, with the assistance of bank counsel and your Federal Reserve contact.

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***SAMPLE MESSAGE***

A FRAUDULENT file was processed for \_\_\_\_\_ (*Bank Name & ABA*) in error on \_\_\_\_\_ (mm/dd/yy). The original file was processed on \_\_\_\_\_ (mm/dd/yy) with settlement of \_\_\_\_\_ (mm/dd/yy). The FRAUDULENT file was processed on \_\_\_\_\_ (mm/dd/yy) and will settle on \_\_\_\_\_ (mm/dd/yy). A reversal file was processed on \_\_\_\_\_ (mm/dd/yy) and will settle on \_\_\_\_\_ (mm/dd/yy). For additional information, contact \_\_\_\_\_ (*Bank Name*) at \_\_\_\_\_ (*Bank's phone number*).

\_\_\_\_\_ (*Bank Name & ABA*) hereby assumes all responsibility and liability for any processing errors, losses, damages, and liability in any way arising out of the transmission of the broadcast message.

\_\_\_\_\_ (*Bank Name & ABA*) also agrees to indemnify and hold harmless the Federal Reserve Bank, its agents and employees, from and against all claims, damages, lawsuits, and expenses, including reasonable attorneys' fees, in any way arising out of the transmission of the broadcast message.

**3. Follow up and confirm that the message has been transmitted.**