

Financial Institution Payments Fraud Mitigation Survey 2017

The survey will be administered online. Question numbers will not show. Information in blue font represents logic in the survey tool and is not displayed. Bullet formatting – if bullet is a circle, then it represents a radio button and limits selection to one answer. If bullets are squares, this means the respondent may select more than one answer. Terms in italics will have definitions, and respondents can mouse over term to see the definition.

Introduction

Please complete this online survey to help us better understand new or continuing challenges that your financial institution faces with payments fraud as well as methods you use to reduce fraud risk. This survey focuses on methods used to mitigate fraud by payment type. We appreciate your willingness to complete the entire survey. Your thoughtful responses will help inform payments industry participants about effectiveness of fraud mitigation methods. As a survey participant, we will notify you when the report of results is available and you will also be invited to attend a free webinar later this year that presents the survey findings.

Payments Fraud Survey Instructions

- This survey is not meant to be taken on a Smart Phone.
- Please try to answer all questions as best you can.
- To review the questions, and terms and definitions in advance of completing the survey; see <https://www.minneapolisfed.org/about/what-we-do/payments-information>
- Use only the Back button located at the bottom of the screen. Do not use the “Back” button on your browser as the survey tool doesn’t support this.
- The survey URL is specific to your financial institution response. Only allow people within your organization to access your response during completion.
- Be sure to save your responses before leaving the survey.
- Definitions for terms in italics are available by hovering your mouse over the term.
- If you have a question about the survey, please send your name and contact information in an email to the Payments, Standards, & Outreach Group at the Federal Reserve Bank of Minneapolis mpls.psog.events@mpls.frb.org

Confidentiality of Response

The information you are providing will be publicly shared as summary-level data. Your financial institution's specific responses will be shared with a limited number of Federal Reserve Bank staff working on this payments fraud research project.

Thank you for taking this survey. Your input is greatly appreciated.

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Financial institution Profile

- 1) What is your ... A response to this question is required.
- 1a) Financial institution name _____
- 1b) Main nine digit routing and transit number. (Please specify the head office number.)
 _____ - _____ - ____ **Response must be numeric.**
- 1c) State (physical location of head office) **Provide drop down list of 50 states in alpha order, also include District of Columbia.**
- 2) What is ...
- 2a) Your name _____
- 2b) Your title _____
- 2c) Email address _____ We will use your email address to notify you when the survey results report is published.
- 3) Are you a subject matter expert on fraud mitigation at your financial institution?
- Yes
- No
- 4) What type of customers are the predominant users of your financial institution's payment products and services?
- Primarily consumers
- Primarily business/commercial
- Both somewhat even
- 5) Which of the following payments products does your financial institution offer? (Select all that apply.)

Payment Products	Offer
a) Cash	<input type="checkbox"/>
b) Checks	<input type="checkbox"/>
c) Credit cards i.e., issue cards and carry accounts receivables	<input type="checkbox"/>
d) Debit cards	<input type="checkbox"/>
e) Prepaid cards, e.g., payroll, gift, etc.	<input type="checkbox"/>
f) Automated Clearinghouse (ACH) origination	<input type="checkbox"/>
g) Automated Clearinghouse (ACH) receipt	<input type="checkbox"/>
h) Wire transfers	<input type="checkbox"/>
i) International payments	<input type="checkbox"/>
j) Bill payments	<input type="checkbox"/>
k) Person to person (P2P) payments	<input type="checkbox"/>
l) Consumer remote deposit capture	<input type="checkbox"/>
m) Commercial/Business remote deposit capture	<input type="checkbox"/>

Fraud by Payment Type

- 6) Did your financial institution experience any *payment fraud* attempts in 2016? Consider all attempts regardless of actual financial losses. A response to this question is required.
- Yes [Go to Q 7](#)
 - No [Go to Q 8](#)
 - Don't know [Go to Q 8](#)
- 7) Indicate the payment types where your financial institution experienced the highest number of fraud attempts in 2016. Consider all attempts regardless of actual financial losses. (Select and rank the three that are highest. Choose one answer per column.)

	1 st choice	2 nd choice	3 rd choice
Checks include choice when answer to 5b is offer	○	○	○
Credit cards include choice when answer to 5c is offer	○	○	○
Debit cards – PIN based include choice when answer to 5d is offer	○	○	○
Debit cards – signature based include choice when answer to 5d is offer	○	○	○
Prepaid cards include choice when answer to 5e is offer	○	○	○
Automated Clearinghouse (ACH) credits include choice when answer to 5f or 5g is offer	○	○	○
Automated Clearinghouse (ACH) debits include choice when answer to 5f or 5g is offer	○	○	○
Wires include choice when answer to 5h is offer	○	○	○
Other, please specify _____	○	○	○

Or

- 7b) If your financial institution does not track fraud attempts, please choose the response below.

Do not track fraud attempts	○
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- 8) Did your financial institution experience any *payment fraud* losses in 2016? A response to this question is required.
- Yes [If yes, ask the following question 9.](#)
 - No [If no, skip to Q 11.](#)
 - Don't know [If don't know, skip to Q11.](#)

9) On which payment types did fraud losses occur? (Select one answer in each row.) [Ask when Q8 is Yes](#)

	Losses	No Losses	Don't Know
Checks (Include choice when 5b is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Credit cards (Include choice when 5c is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Debit cards – PIN based (Include choice when 5d is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Debit cards – signature based (Include choice when 5d is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Prepaid cards (Include choice when 5e is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Automated Clearinghouse (ACH) credits (Include choice when 5 f or g is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Automated Clearinghouse (ACH) debits (Include choice when 5f or g is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wires (Include choice when 5h is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

10) For your financial institution, how have losses due to payments fraud changed in 2016 compared to 2015? (Select one answer in each row.) [If response row in Q9 is “don't know”, exclude that choice from Q10.](#)

	Increased	Decreased	Stayed the Same	Don't Know
Checks (Include choice when 5b is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Credit cards (Include choice when 5c is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Debit cards – PIN based (Include choice when 5d is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Debit cards – signature based (Include choice when 5d is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Prepaid cards (Include choice when 5e is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Automated Clearinghouse (ACH) credits (Include choice when 5 f or g is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Automated Clearinghouse (ACH) debits (Include choice when 5f or g is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wires (Include choice when 5h is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Common Fraud Schemes and Mitigation Strategies by Payment Type

11) At your financial institution is fraud prevention/investigation a centralized function, is it decentralized by payment channel/silo, or is it some of each?

- Centralized
- Decentralized by payment channels/silos
- Mixed – some of each [If this choice is selected, ask](#)

11b) Which payment channels are managed separately? (Select all that apply.)

- Debit card [show choice when 5d is offer](#)
- Credit card [show choice when 5c is offer](#)
- Prepaid card [show choice when 5e is offer](#)
- Checks [show choice when 5b is offer](#)
- ACH [show choice when 5f or 5g is offer](#)
- Wires [show choice when 5h is offer](#)

The next series of questions will ask about fraud schemes and risk mitigation practices. We encourage you to answer questions for each payment type that your financial institution offers and for new deposit/transaction accounts. You may take as much time as you need to complete the survey by the deadline in the cover memo, saving your responses when you need to (click save at bottom of page). You may return to the survey by clicking the same survey link provided in the survey invitation email. When returning to the survey, it will resume where you left off.

If you printed a copy of the survey questions from the Minneapolis Fed website (<https://www.minneapolisfed.org/about/what-we-do/payments-information>) to assist you in completing the survey, this next series of questions may appear in a different order online. Questions are rotated randomly by payment type.

[Order of sections should be rotated so that respondents do not see the main sections in the same order – credit cards \(Q12-13\), new transaction/deposit account \(Q 14\), debit cards \(Q15-16\), checks \(Q17-18\), ACH \(Q19 -20\), and wires \(Q21 -22\). When these are complete, go to Q23.](#)

Credit Cards Include [credit card section, Q12-Q13h](#), when the answer to question 5c is offer.

12) What are the three current fraud attacks most often used to initiate credit card fraud against your financial institution or your customers’ accounts? (Select and rank the three that are most common. Choose one answer per column.)

	1 st choice	2 nd choice	3 rd choice
Counterfeit credit cards used at point-of-sale	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lost or stolen credit cards used at point-of-sale	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Counterfeit credit cards used at ATM, e.g., for cash advance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lost or stolen credit cards used at ATM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Counterfeit or stolen cards or card data used online (card-not-present)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Counterfeit or stolen cards or card data used by telephone or mail order (card-not-present)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Identity theft</i> or <i>synthetic identity theft</i> used to establish new credit card accounts or to defraud existing accounts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fraudulent <i>credentials</i> or other data used to establish new credit card accounts or to defraud existing accounts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Account takeover</i> of customers’ accounts, e.g., changes cardholders address/contact data, takeover of merchant account with card-on-file, etc.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Credit card used by family member or friend	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Or

12b) If you do not know, please choose the response below.

Don't know	<input type="radio"/>
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13a) Which of the following account application processes does your financial institution use to mitigate credit card fraud risks? For those used, please rate effectiveness. (Select one answer in each row.)

	Use & Very effective	Use & Some what effective	Use & Some what ineffective	Don't Use	Don't know
<i>Identity verification services</i> to help confirm the identity of the person or business during account application process	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Credit report inquiry during credit card account application process	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Credit underwriting</i> review	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Financial or tax return review	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Collateral</i> pledge against activity on credit card account	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

13b) Of the methods you rated as very effective, which is the one you think is best? [Only list those from 13a where “very effective” was selected. If none, skip 13b and go to 13c.](#)

- Identity verification services to help confirm the identity of the person or business during account application process
- Credit report inquiry during credit card account application process
- Credit underwriting review
- Financial or tax return review
- Collateral pledge against activity on credit card account
- [List response to “other, please specify” choice here](#)

13c) Which of the following transaction authentication methods does your financial institution use to mitigate credit card fraud risks? For those used, please rate effectiveness. (Select one answer in each row.)

	Use & Very effective	Use & Some what effective	Use & Some what ineffective	Don't Use	Don't know
Card security code verified during transaction authorization, e.g., CVV2, CVC2, or CID codes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Card holder address verified during transaction authorization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Magnetic stripe authentication	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Card chip authentication	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PIN authentication	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Out-of-band authentication for transactions identified as high risk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3D Secure or its equivalent for online payments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

13d) Of the methods you rated as very effective, which is the one you think is best? [Only list those from 13c where “very effective” was selected. If none, skip 13d and go to 13e.](#)

- Card security code verified during transaction authorization, e.g., CVV2, CVC2, or CID codes
- Card holder address verified during transaction authorization
- Magnetic stripe authentication
- Card chip authentication
- PIN authentication
- Out-of-band authentication for transactions identified as high risk
- 3D Secure or its equivalent for online payments
- [List response to “other, please specify” choice here](#)

13e) Which of the following data does your financial institution incorporate into fraud screening tools to mitigate credit card fraud risks? For those used, please rate effectiveness. (Select one answer in each row.)

	Use & Very effective	Use & Some what effective	Use & Some what ineffective	Don't Use	Don't know
Block or score transactions from certain countries that are perceived as high risk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Positive and negative lists	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Velocity</i> of transactions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Merchant category code, card acceptor ID, etc.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Common point of compromise, e.g., specific merchant</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Transaction value	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Out of pattern activity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Behavior analytics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Device <i>velocity</i> checks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>IP address</i> verification	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Device finger printing</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

13f) Of the methods you rated as very effective, which is the one you think is best? [Only list those from 13e where “very effective” was selected. If none, skip 13f and go to 13g.](#)

- Block or score transactions from certain countries that are perceived as high risk
- Positive and negative lists
- Velocity of transactions
- Merchant category code, card acceptor ID, etc.
- Common point of compromise
- Transaction value
- Out of pattern activity
- Behavior analytics
- Device velocity checks
- IP address verification
- Device finger printing
- [List response to “other, please specify” choice here](#)

13g) Which of the following reporting and other risk management methods does your financial institution use to mitigate credit card fraud risks? For those used, please rate effectiveness. (Select one answer in each row.)

	Use & Very effective	Use & Some what effective	Use & Some what ineffective	Don't Use	Don't know
Provide customers online information services to view transactions, statements, etc.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide customers online services to dispute transactions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide customers alerts via text, email, or within application	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Allow customer to turn card off when not in use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Block and reissue all cards known to be on breached card list	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply heightened monitoring and selectively block and reissue cards known to be on breached card list	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Manual review of suspicious transactions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Outsource card fraud management (no internal tools or expertise)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide customer education and training on credit card fraud risk mitigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide staff education and training on credit card fraud risk mitigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

13h) Of the methods you rated as very effective, which is the one you think is best? [Only list those from 13g where “very effective” was selected. If none, skip 13h and go to the next series.](#)

- Provide customers online information services to view transactions, statements, etc.
- Provide customers online services to dispute transactions
- Provide customers alerts via text, email, or within application
- Allow customer to turn card off when not in use
- Block and reissue all cards known to be on breached card list
- Apply heightened monitoring and selectively block and reissue cards known to be on breached card list
- Manual review of suspicious transactions
- Outsource credit card fraud management (no internal tools or expertise)
- Provide customer education and training on credit card fraud risk mitigation
- Provide staff education and training on credit card fraud risk mitigation
- [List response to “other, please specify” choice here](#)

New Demand Deposit Account or Transaction Account Ask when answer to Q5 is offer 5b or 5d or 5f or 5g or 5h.

14a) Which of the following account application processes does your financial institution use to mitigate risks when establishing new demand deposit or transaction accounts? For those used, please rate effectiveness. (Select one answer in each row.) Ask when answer to Q5 is offer on 5b or 5d or 5f or 5g or 5h.

	Use & Very effective	Use & Some what effective	Use & Some what ineffective	Don't Use	Don't know
Conduct <i>KYC</i> and <i>CIP</i> review	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Identity verification services</i> to help confirm the identity of the person or business	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Financial or tax return review	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Credit report inquiry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use of positive and negative lists, e.g., NACHA originator watch list	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>New customer</i> limited to in person submission of new account application	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Agreements that specify minimum security requirements/procedures for online banking payment origination	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Establish exposure limits for customer use of payment products	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Establish prefunding requirements for customer use of payment products	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Require a reserve of funds for return items and other claims	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

14b) Of the methods you rated as very effective, which is the one you think is best? **Only list those from 14a where “very effective” was selected. If none, skip 14b and go to next section.**

- Conduct *KYC* and *CIP* review
- Identity verification services* to help confirm the identity of the person or business
- Financial or tax return review
- Credit report inquiry
- Use of positive and negative lists, e.g., NACHA originator watch list
- New customer* limited to in person submission of new account application
- Account agreement and disclosures
- Agreements that specify with minimum security requirements/procedures for online banking payment origination
- Establish exposure limits for customer use of payment products
- Establish prefunding requirements for customer use of payment products

- Require a reserve of funds for return items and other claims
- [List response to “other, please specify” choice here](#)

Debit Cards Include [debit card section, Q15 – Q16f, when the answer to question 5d is offer.](#)

15) What are the three current fraud attacks most often used to initiate debit card fraud against your financial institution or your customers’ accounts? (Select and rank the three that are most common. Choose one answer per column.)

	1 st choice	2 nd choice	3 rd choice
Counterfeit debit cards used at point-of-sale	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lost or stolen debit cards used at point-of-sale	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Counterfeit debit cards used at ATM, e.g., for cash withdrawal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lost or stolen debit cards used at ATM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Counterfeit or stolen cards or card data used online (card-not-present)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Counterfeit or stolen cards or card data used in telephone or mail order (card-not-present)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Identity theft</i> or <i>synthetic identity theft</i> used to establish new debit card account/demand deposit accounts or defraud existing accounts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fraudulent <i>credentials</i> or other data used to establish new debit card accounts or to defraud existing accounts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Account takeover</i> of customers’ accounts, e.g., changes cardholders address/contact data, takeover of merchant account with card-on-file, etc.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Debit card used by family member or friend	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Or

15b) If you do not know, please choose the response below.

Don't know	<input type="radio"/>
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16a) Which of the following transaction authentication methods does your financial institution use to mitigate debit card fraud risks? For those used, please rate effectiveness. (Select one answer in each row.)

	Use & Very effective	Use & Some what effective	Use & Some what ineffective	Don't Use	Don't know
Card security code verified during transaction <i>authorization</i> , e.g., CVV2, CVC2, or CID codes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Card holder address verified during transaction <i>authorization</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Magnetic stripe <i>authentication</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Card chip <i>authentication</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

PIN authentication	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Out-of-band authentication for transactions identified as high risk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3D Secure or its equivalent for online payments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

16b) Of the methods you rated as very effective, which is the one you think is best? [Only list those from 16a where “very effective” was selected. If none, skip 16b and go to 16c.](#)

- Card security code verified during transaction authorization, e.g., CVV2, CVC2, or CID codes
- Card holder address verified during transaction authorization
- Magnetic stripe authentication
- Card chip authentication
- PIN authentication
- Out-of-band authentication for transactions identified as high risk
- 3D Secure or its equivalent for online payments
- [List response to “other, please specify” choice here](#)

16c) Which of the following data does your financial institution incorporate into fraud screening tools to mitigate debit card fraud risks? For those used, please rate effectiveness. (Select one answer in each row.)

	Use & Very effective	Use & Some what effective	Use & Some what ineffective	Don't Use	Don't know
Block or score transactions from certain countries that are perceived as high risk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Positive and negative lists	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Velocity of transactions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Merchant category code, card acceptor ID, etc.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Common point of compromise, e.g., specific merchant	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Transaction value	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Out of pattern activity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Behavior analytics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Device velocity checks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
IP address verification	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Device finger printing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

16d) Of the methods you rated as very effective, which is the one you think is best? [Only list those from 16c where “very effective” was selected. If none, skip 16d and go to 16e.](#)

- Block or score transactions from certain countries that are perceived as high risk
- Positive and negative lists
- Velocity of transactions
- Merchant category code, card acceptor ID, etc.
- Common point of compromise
- Transaction value
- Out of pattern activity
- Behavior analytics
- Device velocity checks
- IP address verification
- Device finger printing
- [List response to “other, please specify” choice here](#)

16e) Which of the following reporting and other risk management methods does your financial institution use to mitigate debit card fraud risks? For those used, please rate effectiveness. (Select one answer in each row.)

	Use & Very effective	Use & Some what effective	Use & Some what ineffective	Don't Use	Don't know
Provide customers online information services to view transactions, statements, etc.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide customers online services to dispute transactions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide customers alerts via text, email, or within application	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Allow customer to turn card off when not in use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Block and reissue all cards known to be on breached card list	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply heightened monitoring and selectively block and reissue cards known to be on breached card list	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Only issue non-reloadable prepaid cards include choice when 5e is offer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Limit load value on prepaid cards include choice when 5e is offer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Manual review of suspicious transactions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Outsource debit card fraud management (no internal tools or expertise)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Provide customer education and training on debit card fraud risk mitigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide staff education and training on debit card fraud risk mitigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

16f) Of the methods you rated as very effective, which is the one you think is best? [Only list those from 16e where “very effective” was selected. If none, skip 16f and go to the next series.](#)

- Provide customers online information services to view transactions, statements, etc.
- Provide customers online services to dispute transactions
- Provide customers alerts via text, email, or within application
- Allow customer to turn card off when not in use
- Block and reissue all cards known to be on breached card list
- Apply heightened monitoring and selectively block and reissue cards known to be on breached card list
- Only issue non-reloadable prepaid cards
- Limit load value on prepaid cards
- Manual review of suspicious transactions
- Outsource debit card fraud management (no internal tools or expertise)
- Provide customer education and training on debit card fraud risk mitigation
- Provide staff education and training on debit card fraud risk mitigation
- [List response to “other, please specify” choice here](#)

[Checks](#) [Include checks section, Q17 – Q18h, when the answer to question 5b is offer.](#)

17) What are the three current fraud attacks most often used to initiate check fraud against your financial institution or your customers’ accounts? (Select and rank the three that are most common. Choose one answer per column.)

	1 st choice	2 nd choice	3 rd choice
Altered or forged checks presented for payment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Altered or forged checks deposited (over-the-counter, ATM, RDC, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Counterfeit checks presented for payment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Counterfeit checks deposited (over-the-counter, ATM, RDC, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Duplicate checks presented for payment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Duplicate checks deposited (over-the-counter, ATM, RDC, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Check kiting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Abuse of power of attorney to defraud vulnerable adult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use of fraudulent <i>credentials</i> or other data to establish new accounts or to defraud existing accounts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Account takeover</i> of customers’ accounts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

<i>Business email compromise schemes</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Identity theft or synthetic identity theft used to establish new banking/demand deposit account or to defraud existing accounts</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Or

17b) If you do not know, please choose the response below.

Don't know	<input type="radio"/>
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18a) Which of the following transaction authentication methods does your financial institution use to mitigate check fraud risks? For those used, please rate effectiveness.

	Use & Very effective	Use & Some what effective	Use & Some what ineffective	Don't Use	Don't know
<i>Signature verification</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Positive pay services</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Payee positive pay services</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access <i>credentials</i> for remote deposit capture Include this choice when answer to 5l or 5m is offer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Post no check services</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

18b) Of the methods you rated as very effective, which is the one you think is best? [Only list those from 18a where "very effective" was selected. If none, skip 18b and go to 18c.](#)

- Signature verification
- Positive pay services
- Payee positive pay services
- Access credentials for remote deposit capture
- Post no check services
- [List response to "other, please specify" choice here](#)

18c) Which of the following transaction fraud screening and scoring methods does your financial institution use to mitigate check fraud risks? For those used, please rate effectiveness. (Select one answer in each row.)

	Use & Very effective	Use & Some what effective	Use & Some what ineffective	Don't Use	Don't know
<i>Shared database</i> screen/score deposit items	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Positive and negative lists	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Out of pattern activity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Behavior analytics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Velocity</i> of items deposited or paid	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Value of items deposited or paid	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Large dollar item review on deposited or paid items	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Kite detection software	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Duplicate check detection on deposit items	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Duplicate check detection on paid items	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Manual review	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

18d) Of the methods you rated as very effective, which is the one you think is best? [Only list those from 18c where “very effective” was selected. If none, skip 18d and go to 18e.](#)

- Shared database screen/score deposit items
- Positive and negative lists
- Out of pattern activity
- Behavior analytics
- Velocity of items deposited or paid
- Value of items deposited or paid
- Large dollar item review on deposited or paid items
- Kite detection software
- Duplicate check detection on deposit items
- Duplicate check detection on paid items
- Manual review
- [List response to “other, please specify” choice here](#)

18e) Which of the following transaction fraud screening and scoring methods does your financial institution use to mitigate check remote deposit capture (RDC) fraud risks? For those used, please rate effectiveness. (Select one answer in each row.) [Ask when Q 5l or Q5m is offer.](#)

	Use & Very effective	Use & Some what effective	Use & Some what ineffective	Don't Use	Don't know
<i>Velocity checks on RDC items</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>IP address verification</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Device finger printing</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Limit on number of RDC items deposited	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Limit on RDC per item value	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Limit on total RDC deposit value	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply same screens/scoring methods as used in non-RDC check deposits	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other RDC methods, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

18f) Of the methods you rated as very effective, which is the one you think is best? [Only list those from 18e\) where “very effective” was selected. If none, skip 18f and go to 18g.](#)

- Velocity checks on RDC items
- IP address verification
- Device finger printing
- Limit on number of RDC items deposited
- Limit on RDC per item value
- Limit on total RDC deposit value
- Apply same screens/scoring methods as used in non-RDC check deposits
- [List response to “other, please specify” choice here](#)

18g) Which of the following reporting and other risk management methods does your financial institution use to mitigate check fraud risks? For those used, please rate effectiveness. (Select one answer in each row.)

	Use & Very effective	Use & Some what effective	Use & Some what ineffective	Don't Use	Don't know
Routinely apply standard check holds on funds availability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply exception holds on funds availability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Monitor customer return item rates	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Prohibit customer/payee from creating and depositing <i>remotely created checks</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Provide customers online information services to view check images, statements, etc.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide customers alerts via text, email, or within application	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Submit data to <i>shared database</i> and receive alerts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide customer education and training on check fraud risk mitigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide staff education and training on check fraud risk mitigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

18h) Of the methods you rated as very effective, which is the one you think is best? **Only list those from 18g where “very effective” was selected. If none, skip 18h and go to the next section.**

- Routinely apply standard check holds on funds availability
- Apply exception holds on funds availability
- Monitor customer return item rates
- Prohibit customer/payee from creating and depositing remotely created checks
- Provide customers online information services to view check images, statements, etc.
- Provide customers alerts via text, email, or within application
- Submit data to shared database and receive alerts
- Provide customer education and training on check fraud risk mitigation
- Provide staff education and training on check fraud risk mitigation
- List response to “other, please specify” choice here**

ACH Include ACH section, Q19 – Q20f, when the answer to question 5f or 5g is offer.

19) What are the three current fraud attacks most often used to initiate **ACH** fraud against your financial institution or your customers’ accounts? (Select and rank the three that are most common. Choose one answer per column.)

	1 st choice	2 nd choice	3 rd choice
Fraudulent or unauthorized ACH debits against consumer accounts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fraudulent or unauthorized ACH debits against business accounts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use of fraudulent <i>credentials</i> or other data to defraud existing accounts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Account takeover</i> of customers’ accounts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Business email compromise</i> schemes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Originator company employee frauds, e.g., payroll, invoice payment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Insider fraud	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Identity theft</i> or <i>synthetic identity</i> theft used to defraud existing accounts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Abuse of power of attorney to defraud vulnerable adult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Or

19b) If you do not know, please choose the response below.

Don't know	<input type="radio"/>
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20a) Which of the following ACH originator/sender authentication methods does your financial institution use to mitigate ACH fraud risks? For those used, please rate effectiveness. (Select one answer in each row.) [Ask Q20a when FI answer to ACH origination Q5f or Q5g is offer.](#) [If Q5f and Q5g are blank, go to 20c.](#)

	Use & Very effective	Use & Some what effective	Use & Some what ineffective	Don't Use	Don't know
<i>Out of band authentication</i> with originating company/ <i>third party sender</i> (ask when Q5f is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Multi-factor authentication</i> with originating company/ <i>third party sender</i> (ask when Q5f is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Multi-factor authentication</i> for consumer billpay (ask when Q5j is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ID and Password for consumer billpay (ask when Q5j is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Evaluate new credential requests for originator before issuing (ask when Q5f or Q5fg is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
IP address verification (ask when Q5f or Q5fg is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dual control for originating company file initiation (ask when Q5f is offer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

20b) Of the methods you rated as very effective, which is the one you think is best? [Only list those from 20a\) where “very effective” was selected.](#) [If none, skip 20b and go to 20c.](#)

- Out of band authentication with originating company/third party sender
- Multi-factor authentication with originating company/third party sender
- Multi-factor authentication for consumer billpay
- ID and Password for consumer billpay
- Evaluate new credential requests for originator before issuing
- IP address verification
- Dual control for originating company file initiation
- [List response to “other, please specify” choice here](#)

20c) Which of the following transaction fraud screening and scoring methods does your financial institution use to mitigate ACH fraud risks? For those used, please rate effectiveness. (Select one answer in each row.)

[Ask this section when FI offers ACH 5f or 5g](#)

	Use & Very effective	Use & Some what effective	Use & Some what ineffective	Don't Use	Don't know
<i>Shared database</i> to screen/score ACH debits received	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Velocity</i> of ACH transactions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Transaction value	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Out of pattern activity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rules based fraud detection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Anomaly/behavior analytics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>ACH filters</i> /positive pay services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>ACH block</i> services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Suspend originated files exceeding exposure limits	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>OFAC</i> monitoring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Manual review	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

20d) Of the methods you rated as very effective, which is the one you think is best? [Only list those from 20c](#) where “very effective” was selected. If none, skip 20d and go to 20e.

- Shared database to screen/score ACH debits received
- Velocity of ACH transactions
- Transaction value
- Out of pattern activity
- Rules based fraud detection
- Anomaly/behavior analytics
- ACH filters/positive pay services
- ACH block services
- Suspend originated files exceeding exposure limits
- OFAC monitoring
- Manual review
- [List response to “other, please specify” choice here](#)

20e) Which of the following reporting and other risk management methods does your financial institution use to mitigate ACH fraud risks? For those used, please rate effectiveness. (Select one answer in each row.)

	Use & Very effective	Use & Some what effective	Use & Some what ineffective	Don't Use	Don't know
Provide ACH originator alerts, e.g., notice of new payee added	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide ACH receiver alerts, e.g., ACH debit alerts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide ACH originator services to establish batch-level thresholds to hold batches for added authorizations if thresholds hit. Threshold can be dollars, volume, date, etc.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide customers alerts via text, email, or within application	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Monitor customer return item rates	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide customers online information services to view transactions, statements, etc.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide customers online services to dispute transactions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Limit ACH origination to domestic transactions Ask when answer to 5f is offer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide account masking services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Outsource ACH processing and risk management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide customer education and training on ACH fraud risk mitigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide staff education and training on ACH fraud risk mitigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Established procedures for identifying <i>money mule</i> accounts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Funds availability</i> delay when reasonably suspect ACH credit received is unauthorized	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

20f) Of the methods you rated as very effective, which is the one you think is best? [Only list those from 20e where “very effective” was selected. If none, skip 20f and go next section.](#)

- Funds availability delay when reasonably suspect ACH credit received is unauthorized
- Provide ACH originator alerts, e.g., notice of new payee added
- Provide ACH originator services to establish batch-level thresholds to hold batches for added authorizations if thresholds hit. Threshold can be dollars, volume, date, etc.
- Provide ACH receiver alerts, e.g., ACH debit alerts
- Provide customers alerts via text, email, or within application
- Monitor customer return item rates

- Provide customers online information services to view transactions, statements, etc.
- Provide customers online services to dispute transactions
- Limit ACH origination to domestic transactions
- Provide account masking services
- Outsource ACH processing and risk management
- Provide customer education and training on ACH fraud risk mitigation
- Provide staff education and training on ACH fraud risk mitigation
- Established procedures for identifying *money mule* accounts
- [List response to “other, please specify” choice here](#)

Wire Include Wire section, Q21 – Q22f when the answer to question 5h is offer.

21) What are the three current fraud attacks most often used to initiate wire fraud against your financial institution or your customers’ accounts? (Select and rank the three that are most common. Choose one answer per column.)

	1 st choice	2 nd choice	3 rd choice
<i>Account takeover</i> of customers’ accounts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Business email compromise</i> schemes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Originator company employee frauds, e.g., invoice payment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use of fraudulent <i>credentials</i> or other data to defraud existing accounts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Insider fraud	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Identity theft or synthetic identity</i> theft used to defraud existing accounts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Consumer victim frauds, e.g., advance payment schemes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Abuse of power of attorney to defraud vulnerable adult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

21b) If you do not know, please choose the response below.

Don’t know	<input type="radio"/>
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22a) Which of the following transaction authentication methods does your financial institution use to mitigate wire fraud risks? For those used, please rate effectiveness. (Select one answer in each row.)

	Use & Very effective	Use & Some what effective	Use & Some what ineffective	Don't Use	Don't know
<i>Out of band authentication</i> with originating company	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Multi-factor authentication</i> with originating company	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Signature verification</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Telephone callback verification	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Evaluate new credential requests for originator before issuing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
IP address verification	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Device finger printing</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dual control/approval for originating company wire initiation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Limit consumer initiated wires to in person requests with valid government issued ID	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

22b) Of the methods you rated as very effective, which is the one you think is best? [Only list those from 22a\) where “very effective” was selected. If none, skip 22b and go to 22c.](#)

- Out of band authentication with originating company
- Multi-factor authentication with originating company
- Signature verification
- Telephone callback verification
- Evaluate new credential requests for originator before issuing
- IP address verification
- Device finger printing
- Dual control/approval for originating company wire initiation
- Limit consumer initiated wires to in person requests with valid government issued ID
- [List response to “other, please specify” choice here](#)

22c) Which of the following transaction fraud screening and scoring methods does your financial institution use to mitigate wire fraud risks? For those used, please rate effectiveness. (Select one answer in each row.)

	Use & Very effective	Use & Some what effective	Use & Some what ineffective	Don't Use	Don't know
Velocity of wire transactions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Transaction value	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Out of pattern activity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rules based fraud detection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Anomaly/behavior analytics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Suspend originated wires exceeding exposure limits	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
OFAC monitoring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Manual review	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

22d) Of the methods you rated as very effective, which is the one you think is best? [Only list those from 22c where “very effective” was selected. If none, skip 22d and go to 22e.](#)

- Velocity of wire transactions
- Transaction value
- Out of pattern activity
- Rules based fraud detection
- Anomaly/behavior analytics
- Suspend originated wires exceeding exposure limits
- OFAC monitoring
- Manual review
- [List response to “other, please specify” choice here](#)

22e) Which of the following reporting and other risk management methods does your financial institution use to mitigate wire fraud risks? For those used, please rate effectiveness. (Select one answer in each row.)

	Use & Very effective	Use & Some what effective	Use & Some what ineffective	Don't Use	Don't know
Provide customers online information services to view transactions, statements, etc.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide customers online services to dispute transactions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide customers alerts via text, email, or	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

within application					
Provide recurring wire templates to wire originators with role based security for changes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Limit wire origination to domestic transactions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete standard list of questions with consumer initiated wires, e.g., source of funds, relationship to receiver, purpose of payment, etc.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Refuse to send consumer initiated wire when suspect fraud scheme	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Outsource wire processing and risk management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide customer education and training on wire fraud risk mitigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide staff education and training on wire fraud risk mitigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Established procedures for identifying <i>money mule</i> accounts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Funds availability</i> delay when reasonably suspect wire received is unauthorized	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

22f) Of the methods you rated as very effective, which is the one you think is best? [Only list those from 22e where “very effective” was selected. If none, skip 22f and go to next section.](#)

- Provide customers online information services to view transactions, statements, etc.
- Provide customers online services to dispute transactions
- Provide customers alerts via text, email, or within application
- Provide recurring wire templates to wire originators with role based security for changes
- Limit wire origination to domestic transactions
- Complete standard list of questions with consumer initiated wires, e.g., source of funds, relationship to receiver, purpose of payment, etc.
- Refuse to send consumer initiated wire when suspect fraud scheme
- Outsource wire processing and risk management
- Provide customer education and training on wire fraud risk mitigation
- Provide staff education and training on wire fraud risk mitigation
- Established procedures for identifying *money mule* accounts
- Funds availability delay when reasonably suspect wire received is unauthorized
- [List response to “other, please specify” choice here](#)

Internal Controls and Procedures

23a) Which of the following internal controls and procedures does your financial institution currently use to mitigate fraud risks? For those used, please rate effectiveness. (Select one answer in each row.)

	Use & Very effective	Use & Some what effective	Use & Some what ineffective	Don't Use	Don't know
<i>Physical access controls</i> to payment processing functions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Logical access controls</i> to your computing network and payment processing applications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Dedicated computer</i> used to conduct transactions with payments network operator, correspondent bank, or financial service provider	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Authentication and authorization controls</i> to payment processes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Restrict or limit employee use of Internet from financial institution's network	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dual controls and segregation of duties within payment initiation and receipt processes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Transaction/file approval limits	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Address exception items timely, e.g., meet deadlines for chargebacks, returning payments, etc.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Prohibit use of personal devices for processing of financial institution's payment transactions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

23b) Of the methods you rated as very effective, which is the one you think is best? **Only list those from 23a where "very effective" was selected. If none, skip 23b and go to Q24.**

- Physical access controls to payment processing functions
- Logical access controls to your computing network and payment processing applications
- Dedicated computer used to conduct transactions with payments network operator, correspondent bank, or financial service provider
- Authentication and authorization controls to payment processes
- Restrict or limit employee use of Internet from financial institution's network
- Dual controls and segregation of duties within payment initiation and receipt processes
- Transaction/file approval limits
- Address exception items timely, e.g., meet deadlines for chargebacks, returning payments, etc.
- Prohibit use of personal devices for processing of financial institution's payment transactions
- [List response to "other, please specify" choice here](#)

Opportunities and Barriers

24) What are the main barriers to mitigate payments fraud that your financial institution experiences? (For each payment type, select all that you consider to be the main barriers.)

	All Payment Types	ACH	Checks	Credit Cards	Debit Cards	Wires
Consumer data privacy regulatory restrictions/other concerns if customer data shared with others to help mitigate fraud	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Corporate reluctance to share information due to competitive issues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cost of implementing fraud detection tool/method	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lack of staff resources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Availability of tools needed to mitigate fraud	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access to information-sharing on emerging fraud tactics and ways to mitigate associated risks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, please specify _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

25) From your financial institution's perspective, what new or improved methods are most needed to reduce payments fraud? Please describe _____

26) Is there anything else that you would like to share as part of this survey? _____

If we have questions about your survey responses, staff from the Federal Reserve Bank of Minneapolis Payments, Standards, and Outreach Group may call you. Please provide your telephone number (____)____-_____

Place at end of survey:

Thank you for taking the time to complete our survey. Your responses are greatly appreciated to help provide feedback about best practices and challenges for the payments industry.