The Federal Reserve Payments Study

Survey Period: Calendar Year 2020

The Depository and Financial Institutions Payments Survey (DFIPS) includes:

- Institution’s affiliates 2
- Institution profile 2
- Check profile, payments, deposits, and outgoing returns 5
- ACH profile, originations, receipts, and outgoing returns 11
- Wire transfers originated 26
- Debit cards 31
- General-purpose prepaid cards 40
- General-purpose credit cards 50
- Cash withdrawals 61
- Alternative payment initiation methods 66

--- Glossary with Examples ---
Glossary with Examples

Note: The Institution's Affiliates section is excluded from the glossary.

Institution Profile

GENERAL TERMINOLOGY

Your institution

“Your institution” refers to the participating depository institution at its highest organizational level (i.e., holding company, if applicable), including all affiliates. Only report data associated with your institution's U.S. domiciled accounts (i.e., those accounts located within the 50 U.S. states, D.C., or U.S. territories such as Guam, Puerto Rico, or U.S. Virgin Islands), including both domestic and cross-border transactions.

Note: If your institution represents a third-party processor responding on behalf of a depository institution that was sampled for this study, please ensure that your response reflects transaction activity of accounts at the participating institution only and does not include data from other institutions for which your institution processes payments.

Account type definitions

Consumer account
An account for personal use by an individual or household from which payments are commonly made.

Business/government account
An account owned by an organization (i.e., business, government, non-depository financial institution, or not-for-profit organization) from which payments are commonly made.

Note: Please report small business accounts under business/government accounts, if possible.

SURVEY ITEMS

1. Transaction deposit accounts (including Demand Deposit Accounts (DDAs)) = 1.a + 1.b

Average of monthly totals means the average of end-of-month totals for 2020.

A transaction deposit account is a deposit account for personal use by an individual or household or owned by an organization from which payments are commonly made.

Include:
- Checking accounts
- Negotiable order of withdrawal (NOW) accounts
- Share draft accounts

Do not include:
- Savings accounts
- Money market deposit accounts (MMDAs)
- Certificates of deposit (CDs)
- Prepaid card program accounts
- Credit card accounts
- Accounts of foreign governments and official institutions
- Accounts of other depository institutions
- Retail sweep program accounts (item 3 below)
- Wholesale sweep program accounts (item 5 below)

► Example 1: Your customer has a student checking account with an average monthly balance of $3,500 at your institution that was open during the entire year of 2020. He also has a savings account and a credit card with your institution. Please report one transaction deposit account with a balance of $3,500. The $3,500 balance reported is the average of end-of-month totals for each of the months in 2020.

► Example 2: Your customer, Joe, has a checking account open for the months of January through June with a balance of $1,000 at the end of each month. Your other customer, Jill, has a checking account open from July through December, with a balance of $6,000 at the end of July and then $0 at the end of each month thereafter. In this example, report 1 average checking account with a balance of $1,000 for the 2020 calendar year.
1.a Consumer accounts

Please see the General Terminology section above for the definition of consumer accounts.

► Example: Your customer has a student checking account with an average monthly balance of $2,000 at your institution that was open during the entire year of 2020. He also has a savings account and a credit card with your institution. In this example, please report 1 consumer account with a balance of $2,000 for the 2020 calendar year. The $2,000 balance reported is the average of end-of-month totals for each of the months in 2020.

1.b Business/government accounts

Please see the General Terminology section above for the definition of business/government accounts.

► Example: Your customer has a business checking account with an average monthly balance of $6,000 at your institution that was open during the entire year of 2020. He also has a corporate credit card account with your institution. In this example, please report 1 business/government account with a balance of $6,000 for the 2020 calendar year. The $6,000 balance reported is the average of end-of-month totals for each of the months in 2020.

2. Did your institution or any of its affiliates employ the use of a retail sweep program (i.e., reserve sweep program) during calendar year 2020?

We use your institution’s deposit balances as a sizing measure which contributes to the accuracy of our estimates of national aggregate payment volumes. Understanding if your institution used a retail sweep program will also contribute to the accuracy of our estimates. In a retail sweep, a depository institution transfers funds between a customer’s transaction accounts (both consumer and business/government) and that customer’s savings and money market deposit accounts (MMDAs) up to six times per month by means of preauthorized or automatic transfers, typically in order to reduce transaction account reserve requirements while providing the customer with access to the funds. This practice does not adversely impact the account holder but allows the institution to reduce nonearning assets.

See http://www.federalreserve.gov/BOARDDOCS/LegalInt/FederalReserveAct/2007/20070501/20070501.pdf for a regulatory opinion of what approaches may be used to implement these programs.

Do not consider wholesale sweep program accounts (item 5 below). If your answer to this question is No, please report “0” for items 3 below.

3. Retail sweep program accounts (i.e., reserve sweep program accounts)

Average of monthly totals means the average of end-of-month totals for 2020. If your answer is No to item 2 above, please report “0” here.

Include:

- Savings and money market deposit accounts (MMDAs) associated with retail sweep programs (include both consumer and business/government accounts)

Do not include:

- Checking accounts
- Negotiable order of withdrawal (NOW) accounts
- Share draft accounts
- Transaction deposit accounts (item 1 above)
- Wholesale sweep program accounts (item 5 below)
- Accounts and balances of any savings-type account not associated with transaction deposit accounts under a sweep program
- General ledger accounts (the sub-accounts that have sweeps tied to them should be reported individually, rather than as one general ledger account)

► Example: Your customer has a student checking account with an average monthly balance of $3,500 at your institution. He also has a savings account with an average monthly balance of $15,000 with your institution, which includes a sweep to his checking account as needed to cover payments. Please report one consumer sweep account with a balance of $15,000. The $15,000 balance reported is the average of end-of-month totals for each of the months in 2020.
4. Did your institution provide a wholesale sweep program (i.e., corporate sweep program) to your business accountholders during calendar year 2020?

Wholesale sweep program accounts, also known as corporate sweep program accounts, are accounts in which funds from your business accountholders are swept overnight into investment instruments. Common investments used in wholesale sweeps are repurchase agreements, Master Notes, offshore Eurodollar deposits, and mutual funds.

Do not consider retail sweep program accounts (item 3 above). If your answer to this question is No, please report “0” for item 5 below.

5. Wholesale sweep program accounts

Average of monthly totals means the average of end-of-month totals for 2020. If your answer is No to item 4 above, please report “0” here.

Include:
- Corporate sweep accounts in which funds from your business accountholders are swept overnight into investment instruments.

Do not include:
- Checking accounts
- Negotiable order of withdrawal (NOW) accounts
- Share draft accounts
- Transaction deposit accounts (item 1 above)
- Retail sweep program accounts (item 3 above)
- Accounts and balances of any savings-type account not associated with transaction deposit accounts under a sweep program

► Example: Your corporate customer has a business checking account with an average monthly balance of $3,500 at your institution. The company also has a business savings account with an average monthly balance of $50,000 with your institution, which includes an overnight sweep into an investment account. Please report one wholesale sweep program account with a balance of $50,000. The $50,000 balance reported is the average of end-of-month totals for each of the months in 2020.
**GENERAL TERMINOLOGY**

**Your institution**
“Your institution” refers to the participating depository institution at its highest organizational level (i.e., holding company, if applicable), including all affiliates. Only report data associated with your institution’s U.S. domiciled accounts (i.e., those accounts located within the 50 U.S. states, D.C., or U.S. territories such as Guam, Puerto Rico, or U.S. Virgin Islands), including both domestic and cross-border transactions.

**Checks**
A negotiable instrument drawn on a depository institution. For this study, please follow these guidelines:

<table>
<thead>
<tr>
<th>Checks paid include...</th>
<th>Checks paid do not include...</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Checks written by individuals, businesses or government entities</td>
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<tr>
<td>- Traveler’s checks drawn on your institution</td>
<td></td>
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<tr>
<td>- Money orders drawn on your institution</td>
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<tr>
<td>- Cashier’s checks drawn on your institution</td>
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<td>- Official checks drawn on your institution</td>
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<td>- Teller’s checks drawn on your institution</td>
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<td>- Payable through drafts drawn on your institution</td>
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<tr>
<td>- Truncated checks (i.e., image exchange)</td>
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<tr>
<td>- Checks paid that were subsequently returned (outgoing)</td>
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<tr>
<td>- Deposit slips</td>
<td></td>
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<tr>
<td>- General ledger tickets</td>
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<tr>
<td>- Other non-check documents, such as payment coupons</td>
<td></td>
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<tr>
<td>- Courtesy checks on credit card accounts</td>
<td></td>
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<tr>
<td>- Checks converted to ACH (i.e., ARC, POP, BOC transactions)</td>
<td></td>
</tr>
</tbody>
</table>

**Bank of first deposit**
The first depository institution in which a check is deposited. The “bank of first deposit” may be a bank or credit union and may not be your institution.

**“On-us” correspondent deposits**
Checks drawn on your institution that are deposited at your institution by a correspondent banking customer, which is the “bank of first deposit”. A correspondent banking relationship is when your institution holds balances for an unaffiliated depository institution in a due-to-account and performs check clearing services on its behalf.

**Account type definitions**

**Consumer account**
A transaction deposit or savings account for personal use by an individual or household from which check payments can be made.

**Business/government account**
A transaction deposit or savings account owned by an organization (i.e., business, government, non-depository financial institution, or not-for-profit organization) from which check payments can be made.

**Note:** Please report small business accounts under business/government accounts, if possible.

**Third-party fraud**
The Federal Reserve Payments Study has identified a measure of fraud that can be described as cleared and settled third-party fraudulent transactions. The measure is not a loss-of-funds measure, nor is it a measure of fraud attempts; rather, it is a measure of the extent to which third parties who are not authorized to conduct transactions are able to penetrate the payment system and effect settlement between banks, or create a book transfer of funds if the transaction happens within one institution. The definition includes third-party fraud with all types of outcomes that may or may not include a loss to various entities, but constitutes a fraud attempt that manages to create a funds transfer, if only temporary. The definition is depicted below within the hierarchy of fraud attempts visible to your institution. The definition of fraud in this study is highlighted in yellow to show that cleared and settled third-party fraud includes at least six different categories of fraud outcomes.
SURVEY ITEMS

1. Did your institution outsource check processing to another organization (i.e., its “processor”) during calendar year 2020?
   If your institution cannot process checks internally and outsources this process to a third-party vendor, please answer Yes to this question. If your institution outsourced check processing for part of 2020, please answer Yes.
   If your answer to this question is No, please skip item 1.a below.
   **Note:** If your answer to this question is Yes, please request the necessary data from your institution’s payments processor, or provide them with a PDF copy of the survey so that they may respond on your behalf.

   1.a If your answer is “Yes, in all cases,” or “Yes, in some cases,” to item 1 above, are you able to include these outsourced portions in your answer below?
   If possible, please report your institution’s check volume processed by another organization. If your answer is No to item 1.a above, please report all check volume processed by your institution and explain in the comments box at the end of this section.

2. Are you able to exclude non-check documents from "all checks drawn on your institution" (item 5 below)?
   Non-check documents are “other” items processed on check sorters (e.g., batch headers, general ledger tickets, cash-in or cash-out tickets, deposit slips). Even if you are unable to exclude non-check documents, please report all check volumes drawn on your institution, including non-check documents.

3. Are you able to report checks deposited at one affiliate of your institution but drawn on another affiliate of your institution as on-us volume in item 5.b below?
   Some institutions call this “on-we” volume, which should be reported entirely under item 5.b below if possible. Even if you are unable to report “on-us” volume in item 5.b, please report all checks drawn on your institution in item 5 below.

4. Did your institution process checks for an unaffiliated depository institution as part of a correspondent banking relationship during calendar year 2020?
   As a “correspondent bank,” your institution holds balances for an unaffiliated depository institution in a due-to-account and performs check clearing services on its behalf.
Example: Bank A received deposits at its branches. Rather than processing and forwarding transit checks for collection itself, Bank A deposited the checks into a due-to account at Bank B. Bank B cleared Bank A’s checks on its behalf. In this example, Bank B is a correspondent processor and would answer Yes to this question.

5. Total checks drawn on your institution = 5.a + 5.b

These are all cleared and settled, domestic and cross-border checks (or share drafts) for which your institution was the paying bank as defined by Federal Reserve Regulation CC: Availability of Funds and Collection of Checks (Reg. CC).

Note: Count each unique check only once, and avoid these two common mistakes: 1) Do not double-count electronic check presentment (ECP) items if your institution received an electronic file with paper to follow, and 2) if your institution performed proof-of-deposit processing, do not calculate total checks drawn on your institution as the difference between prime pass and transit check volumes. Prime pass volume includes non-check documents, which should be excluded.

Include:
- Usually the personal and business checks written by your accountholder customers, as well as checks written on behalf of your institution. Do not forget the following:
  - Controlled disbursement checks, if applicable
  - Official checks, including cashier’s checks, teller’s checks, and treasurer’s checks (i.e., those guaranteed by your institution and drawn on your institution’s account)
  - Checks presented to your institution as paying bank but were subsequently returned unpaid to the “bank of first deposit” or its designated processor (i.e., outgoing returns) or chargebacks to the depositing customer if your institution was the “bank of first deposit” (i.e., “on-us” returns)

Do not include:
- Checks drawn on other institutions (i.e., transit checks)
- Checks that your institution received as a “pass-through correspondent” for which another institution was the paying bank
- Non-check documents—such as batch headers, general ledger tickets, cash-in or cash-out tickets, and deposit tickets—that were processed on check sorters

Example: Your customer wrote a check for $57 to pay her water bill. If your institution has a depository relationship with this water company, these checks are “on-us” deposited checks. In this example, you would report 1 check with a value of $57 in items 5 above and 5.b below.

5.a Checks drawn on your institution for which another institution was the “bank of first deposit”

These are all checks drawn on your institution for which another institution was the “bank of first deposit.”

Note: Do not double-count electronic check presentment (ECP) items if your institution received an electronic file with paper to follow.

Include:
- Inclearings and “on-us” checks deposited by correspondent customers
- Checks received from the Federal Reserve or via clearinghouses and image exchange networks, or in direct presentment for same-day settlement
- Controlled disbursement checks if applicable

Do not include:
- Checks for which your institution was the “bank of first deposit” or checks drawn on other institutions
- Checks drawn on an unaffiliated depository institution that were deposited at your institution (i.e., outbound transit checks)
- Checks drawn on your institution for which your institution was also the “bank of first deposit” (i.e., “on-us” checks for which your institution was the “bank of first deposit,” item 5.b below)
- Checks deposited and drawn on different affiliates of your institution (some call this “on-us” volume)

Example: Your customer wrote a check for $125 to pay for her groceries. The grocery store has a depository relationship with an unaffiliated depository institution. After processing the grocer’s deposit, that institution (i.e., the “collecting bank”) presented the check through the Federal Reserve, through a local clearinghouse, or directly for same-day settlement to your institution for payment. In this example, you would report 1 check with a value of $125.
5.b “On-us” checks for which your institution was the “bank of first deposit”

These are all checks drawn on your institution for which your institution was the “bank of first deposit.”

**Note:** If your institution truncated checks at the teller line, please include those checks in this volume.

**Include:**
- All checks cleared between your affiliates, which include but are not limited to the following:
  - Checks deposited in your branches
  - Checks received from other internal departments (e.g., wholesale or retail lockbox, currency/coin vault operations, loan payments processing operations)
  - Checks deposited by corporate clients (typically in the evening) directly to your item-processing operations (i.e., pre-encoded or un-encoded deposits or remote capture deposits)
  - Checks deposited and drawn on different affiliates of your institution (some call this “on-we” volume)

**Do not include:**
- Inclearings received from the Federal Reserve, a clearinghouse, or another institution (i.e., same-day settlement)
- Checks deposited by correspondent customers, even if they were drawn on your institution. These are “on-us” correspondent deposits and should be counted in item 5.a above

► **Example:** Your customer wrote a $65 check to her babysitter, who also happened to be your customer. When the babysitter deposited the check, your institution was both the collecting institution and the paying institution on this check. In this example, you would report 1 check with a value of $65.

6. **Total checks drawn on your institution (repeat item 5) = 6.a + 6.b**

Repeat item 5 above. These are all cleared and settled, domestic and cross-border checks (or share drafts) for which your institution was the paying bank as defined by Federal Reserve Regulation CC: Availability of Funds and Collection of Checks (Reg. CC).

**Note:** Count each unique check only once, and avoid these two common mistakes: 1) Do not double-count electronic check presentment (ECP) items if your institution received an electronic file with paper to follow, and 2) if your institution performed proof-of-deposit processing, do not calculate total checks drawn on your institution as the difference between prime pass and transit check volumes. Prime pass volume includes non-check documents, which should be excluded.

**Include:**
- Usually the personal and business checks written by your accountholder customers, as well as checks written on behalf of your institution. Do not forget the following:
  - Controlled disbursement checks, if applicable
  - Official checks, including cashier’s checks, teller’s checks, and treasurer’s checks (i.e., those guaranteed by your institution and drawn on your institution’s account)
  - Checks presented to your institution as paying bank but were subsequently returned unpaid to the “bank of first deposit” or its designated processor (i.e., outgoing returns) or chargebacks to the depositing customer if your institution was the “bank of first deposit” (i.e., “on-us” returns)

**Do not include:**
- Checks drawn on other institutions (i.e., transit checks)
- Checks that your institution received as a “pass-through correspondent” for which another institution was the paying bank
- Non-check documents—such as batch headers, general ledger tickets, cash-in or cash-out tickets, and deposit tickets—that were processed on check sorters

► **Example:** Sarah, your customer, wrote a check for $57 to pay her water bill. The water company is also a client of your institution, and they wrote a check to their power company for $2,000. In this example, you would report two checks with a value of $2,057 in item 6 above, one check with a value of $57 for item 6.a below, and one check with a value of $2,000 in item 6.b below.

6.a **From consumer accounts**

All checks paid from consumer accounts of any kind. Please see the **General Terminology** section above for the definition of consumer accounts.

**Include:**
- Consumer checks, no matter what kind of consumer account they were written on
- Any money orders, cashier’s checks, or official checks paid on behalf of consumer accountholders through any type of account set up for that purpose
- Both inclearings and on-us checks
Do not include:
- Checks paid from business/government accounts

► Example: Your consumer customer, Joe, wrote a check for $1,400 to pay his rent last month. In this example, you would report one check for $1,400.

6.b From business/government accounts
All checks paid from business/government accounts of any kind. Please see the General Terminology section above for the definition of business/government accounts.

Include:
- Checks the institution pays itself on its own accounts
- Any money orders, cashier's checks, or official checks paid on behalf of business/government accountholders through any type of account set up for that purpose, and any checks your institution paid on its own behalf
- Small business accounts under business/government accounts
- Both inclearings and on-us checks

Do not include:
- Checks paid from consumer accounts

► Example: Your corporate customer, Joe’s Shoes, wrote a check for $3,000 to one of his suppliers. In this example, you would report one check for $3,000.

7. Third-party fraudulent checks drawn on your institution
These are all third-party, fraudulent unauthorized checks drawn on your institution that were deposited, cleared, and settled. Please report any third-party, fraudulent paid checks regardless of whether or not those funds were subsequently recovered through the check return process or by other means.

Include:
- Only fraudulent cleared and settled paid checks that were not authorized by your institution’s accountholders (third-party fraud)
  - If a transit check, report only those fraudulent items that resulted in a transfer of funds to the collecting bank
  - If an on-us check for which your institution was the bank of first deposit, report only those fraudulent items that resulted in funds being made available to the depositing customer

Do not include:
- Check fraud prevented before settlement (transit check) or funds made available to the depositing customer (on-us checks for which your institution was the bank of first deposit)
  - If a transit check, a transfer of funds to the collecting bank did not occur
  - If an on-us check for which your institution was the bank of first deposit, funds were not made available to the depositing customers
- Fraud committed by your institution’s accountholders (first-party fraud), or checks authorized by a valid accountholder as part of a scam

► Example 1: Jane and Mary are accountholders at your institution, and both of their checkbooks were stolen. The perpetrator wrote a check for $2,000 from Jane’s checkbook, which your institution paid. The perpetrator also wrote a check for $1,500 from Mary’s checkbook, which your institution did not pay per Mary’s instructions to stop all check payments from her account due to her stolen checkbook. Susan is also an accountholder at your institution. She wrote a check for $100, which, due to a misread item, posted erroneously to her account for $110. Only the check from Jane’s account is classified as a third-party fraudulent unauthorized check. In this example, you would report 1 transaction for $2,000.

► Example 2: Daniel is an accountholder at your institution. He recently bought a TV at a retailer for $1,200 and paid with a check. After the funds transferred from Daniel’s account to the retailer’s account, your accountholder claimed this transaction as fraudulent, stating that his checkbook was stolen and that a perpetrator had written the check. Your institution made an inquiry into the fraud claim and determined that Daniel indeed wrote the check and made a false claim of fraud. In this example, you would not report the transaction as third-party fraud since it is considered first-party fraud.
8. **Total checks deposited at your institution**
These include checks that were drawn on your institution (i.e., “on-us” checks for which your institution was the “bank of first deposit,” item 5.b above and “on-us” checks deposited by correspondent customers) and checks drawn on other depository institutions (i.e., transit checks).

**Include:**
- Checks deposited in your branches
- Checks received from other internal departments (e.g., wholesale or retail lockbox, currency/coin vault operations, loan payments processing operations)
- Checks deposited by corporate clients (typically in the evening) directly to your item processing operations (i.e., pre-encoded or un-encoded deposits or remote capture deposits)
- Checks deposited by correspondent banking customers

► **Example:** A customer deposits a check by using your institution’s app on his smartphone for $100. Another customer walks into one of your institution’s branches and deposits a check for $250. In this example, both types of checks would be included for a total of two deposits in the amount of $350.

9. **Third-party fraudulent checks deposited at your institution**
These are all third-party, fraudulent unauthorized checks deposited at your institution that subsequently were cleared and settled. Please report any third-party, fraudulent paid checks regardless of whether or not those funds were subsequently recovered through the check return process or by other means.

**Include:**
- Only fraudulent cleared and settled paid checks that were not authorized by the institution accountholders (third-party fraud)
  - If a transit check, report only those fraudulent items that resulted in a transfer of funds to the collecting bank
  - If an on-us check for which your institution was the bank of first deposit, report only those fraudulent items that resulted in funds’ being made available to the depositing customer

**Do not include:**
- Check fraud prevented before funds were made available to the depositing customer
  - If a transit check, a transfer of funds to the collecting bank did not occur
  - If an on-us check for which your institution was the bank of first deposit, funds were not made available to the depositing customers
- Fraud committed by your institution’s accountholders (first-party fraud), or checks authorized by a valid accountholder as part of a scam

► **Example 1:** Dan is an accountholder at a different institution. Dan’s checkbook was stolen and the perpetrator deposited one of the stolen checks for $2,000 into an account at your institution, which then cleared and settled. Dan’s institution notified yours about the fraudulent check that had been deposited. In this example, you would report one check for $2,000.

► **Example 2:** Sarah is an accountholder and your institution, and she deposited a check for $500 in her bank account. After the check had cleared, Sarah contacted your institution claiming that the deposit had been misread her check, and $5,000 should have been deposited into her account. Your institution investigated the claim and determined that the check had not been misread, and the correct amount of $500 had been deposited into her account. In this example, you would not report the transaction as third-party fraud since it is considered first-party fraud.

10. **Total outgoing and “on-us” returned checks**
These are all checks drawn on your institution that your institution returned unpaid.

**Include:**
- All checks drawn on your institution that it returned unpaid, whether to another institution or to your own accountholders

**Do not include:**
- Checks drawn on another institution and returned to your institution unpaid (i.e., incoming returns)

► **Example:** Your customer wrote a check for $98 that was deposited (at your institution or another) and presented for payment. Your customer’s account had insufficient funds and no overdraft protection. Your institution returned the check unpaid. In this example, you would report 1 check with a value of $98.
ACH Profile

GENERAL TERMINOLOGY

Your institution

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ACH entries

Transactions in this category are payment entries, originated or received by your institution and result in a transfer of funds from an account at your institution, that are processed through an Automated Clearinghouse (ACH) platform according to NACHA rules and format conventions. For this study, please follow these guidelines:

<table>
<thead>
<tr>
<th>ACH entries include…</th>
<th>ACH entries do not include…</th>
</tr>
</thead>
<tbody>
<tr>
<td>▪ Debits received and credits sent</td>
<td>▪ Addenda records</td>
</tr>
<tr>
<td>▪ Debits originated and credits received</td>
<td>▪ Zero-dollar items (e.g., NOCs, Prenotes)</td>
</tr>
<tr>
<td>▪ Direct exchange</td>
<td>▪ Deletes/reversals</td>
</tr>
<tr>
<td>▪ On-us entries</td>
<td></td>
</tr>
<tr>
<td>▪ Network entries</td>
<td></td>
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<tr>
<td>▪ Entries that were subsequently returned (outgoing)</td>
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</tbody>
</table>

Originating Depository Financial Institution (ODFI)

The depository institution that initiates and warrants electronic payments through the ACH network (or on-us) on behalf of its customers. Some institutions refer to forward originations as “live items.”

Receiving Depository Financial Institution (RDFI)

The depository institution that accepts and posts ACH transactions to customer accounts.

Network ACH entry

An ACH entry that is cleared through a network operator (i.e., the Federal Reserve or Electronic Payments Network [EPN]).

In-house, on-us ACH entry (cleared within your institution and not through the Federal Reserve or EPN)

An ACH entry for which your institution is both the ODFI and the RDFI without the use of a network operator (i.e., the Federal Reserve or EPN) for clearing or settlement. On-us entries result in the movement of funds from one account to another within your institution.

Direct Exchange ACH entry

An ACH entry that is exchanged directly between your institution and another without the use of a network operator (i.e., the Federal Reserve or EPN). Some institutions call these “Direct Send” entries. Please include all Direct Exchange ACH entries that result in payments from accounts at your institution.

Offset ACH entry

An on-us ACH entry used to effect settlement by an ODFI. For example, when acting as ODFI for 100 $50 credit entries for a corporate accountholder, an ODFI might originate a single $5,000 debit entry to draw funds from the originator’s funding account. An offset ACH entry is similar to an “accounting movement of money” to settle a corresponding ACH entry.

Using the example above, if a business account at your institution pays payroll to 100 employees for $50 each (ODFI credit origination), this payment generates 100 credit originations for a total of $5,000. The offset transaction is one debit origination for a total of $5,000. The number of offset transactions may vary depending on the institution. Some institutions might do a one-to-one offset transaction per payment origination.
Example assumptions

- None of the employees bank at the same institution as the employer, thus all ACH entries must go through the ACH network
- Employer’s bank (ODFI) = Bank A
- Employees’ bank (RDFI) = Bank B
- ODFI offsets in-house on-us

**Balanced file**

Files containing offsetting entries that automatically credit or debit the customer’s demand deposit account (DDA) for the debit and/or credit transactions on the file. The debit and credit offset entries should equal the value of the credit- and debit-originated entries respectively in the received file from the accountholder.

**Unbalanced file**

Files that do not have an offsetting entry that automatically credits or debits the customer’s DDA account for the debit and/or credit originated. After receiving the file from the accountholder, the ODFI will then originate the offset entries to balance the file. Most institutions prefer to receive unbalanced files.

**Same-day ACH entry**

An entry in which the effective entry date is the same banking day as the date on which the entry is transmitted by the ODFI to its ACH operator, and that is transmitted by the ACH operator’s deadline for same-day processing and settlement. A same-day entry must be for an amount of $25,000 or less. An IAT (international ACH) or ENR (automated enrollment) entry cannot be a same-day entry. Network ACH same-day credit entries became effective as of September 23, 2016. Network ACH same-day debit entries became effective as of September 15, 2017. However, some institutions may have used proprietary systems prior to these dates.

**Account type definitions**

**Consumer account**

A transaction deposit or savings account for personal use by an individual or household from which ACH payments can be made.

**Business/government account**

A transaction deposit or savings account owned by an organization (i.e., business, government, non-depository financial institution, or not-for-profit organization) from which ACH payments can be made.

**Note:** Please report small business accounts under business/government accounts, if possible.
Third-party fraud

The Federal Reserve Payments Study has identified a measure of fraud that can be described as cleared and settled third-party fraudulent transactions. It is not a loss-of-funds measure, nor is it a measure of fraud attempts; rather, it is a measure of the extent to which third parties who are not authorized to conduct transactions are able to penetrate the payment system and affect settlement between banks or create a book transfer of funds if the fraud happens within one institution. The definition includes third-party fraud with all types of outcomes, which may or may not include a loss to various entities but constitutes a fraud attempt that manages to create a funds transfer, if only temporary. The definition is depicted below within the hierarchy of fraud attempts visible to your institution. The definition of fraud in this study is highlighted in yellow to show that cleared and settled third-party fraud includes at least six different categories of fraud outcomes.

![Diagram of fraud hierarchy]

SURVEY ITEMS

1. Did your institution post transactions from other payment instruments to your Demand Deposit Account (DDA) system using your ACH platform during calendar year 2020?
   If your answer is Yes, please do not include these transactions in the items below.
   
   **Note:** Rather than maintaining an interface between your institution’s DDA system and a particular transaction processing system (e.g., signature-based debit card or wire transfer), your institution creates a separate ACH entry to post each of those non-ACH transactions.

2. Did your institution originate forward ACH credits (not including returns or offset entries) during calendar year 2020?
   Answer Yes if ACH credit originations are a product offered to accountholder customers (i.e., your institution is an ODFI). Answer No if not, or if your institution only originates ACH credits for the purpose of returning credits received from another institution (i.e., your institution is not an ODFI) or offsetting debit originations.

   **Note:** If your answer is No, please report No for item 5 below, and report "0" for items 6, 7, 8, and 9 and their subsets below.
3. **Did your institution originate forward ACH debits (not including returns or offset entries) during calendar year 2020?**

   Answer **Yes** if ACH debit originations are a product offered to accountholder customers (i.e., your institution is an ODFI). Answer **No** if not, or if your institution only originates ACH debits for the purpose of returning debits received from another institution (i.e., your institution is not an ODFI) or offsetting credit originations. If you do not originate debit entries, then you will not receive in-house on-us debit entries.

   **Note:** If your answer is **No**, please report "0" for item 10, 11, and 12.b below. If your answer is **Don’t Know**, please report NR for item 10, 11, and 12.b below. This applies to 12.b because your institution is both the ODFI and RDFI for in-house on-us non-offset debit entries. Therefore, if your institution cannot determine ODFI debits, then you will not be able to accurately calculate when your institution was both the ODFI and RDFI for debit entries.

4. **Did your institution originate offset ACH debit or credit entries during calendar year 2020?**

   Offset entries are internal settlements for ACH transactions by an ODFI. In most cases, institutions offset (or move) the funds from the accountholder’s DDA to an “in process” account before the funds are settled with the Fed, EPN, or internally. If your answer is **No**, please skip items 4.a and 4.b below.

   **Example:** Your corporate customer paid 20 of its employees $1,000 each electronically through ACH. To make the total payment of $20,000, your institution originated one debit ACH entry for $20,000 to “move” the money from your accountholder’s DDA to your institution’s “in-process” account. (An in-process account is a suspense account owned by your institution that settles internally or with the network operator—i.e., the Federal Reserve or EPN.) Your institution then effected a net settlement of money with the network operator (i.e., the Federal Reserve or EPN) between incoming and outgoing payments.

   **4.a** If your answer is "Yes" to item 4 above, are you able to exclude offset ACH volumes from balanced files in your answer below?

   Even if you are not able to exclude all offset volumes from balanced files, please report the number and value of your institution's forward ACH entries and third-party fraud for all items below.

   **4.b** If you answer is “Yes” to item 4 above, are you able to exclude offset ACH volumes from unbalanced files in your answers below?

   Even if you are not able to exclude all offset volumes from unbalanced files, please report the number and value of your institution's forward ACH entries and third-party fraud for all items below.

5. **Did your institution offer same-day settlement of ACH credit originations during calendar year 2020?**

   The effective date for network same-day settlement of credits was September 23, 2016. If your answer is **No**, please report “0” for items 8.a and 9.a below.
**ACH Originations**

Please include all transactions that involve a forward transfer of value. Do not include those transactions that do not involve a forward transfer of value. This allocation maps to the following SEC code breakout:

- **SEC Codes to Include:** ARCh, BOC, CDD, CIE, CTX, IAT, POP, POS, PPD, RCK, SHR, TEL, TRC, WEB, XCK
- **SEC Codes to Exclude:** ACK, ADV, ATX, COR, DNE, ENR, MTE, RET, TRX

6. **Total forward ACH credits your institution originated (ODFI credits) = 6.a + 6.b + 6.c**

These are all cleared and settled, domestic and cross-border, network, on-us, and direct exchange ACH credit entries for which your institution was the ODFI. If your answer is No to item 2 above, please report “0” ACH credit entries originated by your institution here.

**Include:**
- In-house, on-us forward credit entries for which your institution was both the ODFI and RDFI
- Network forward ACH credits originated
- Network on-us credit entries for which your institution was both the ODFI and RDFI
- All direct exchange ACH credit entries for which you are the ODFI

**Do not include:**
- Returns of ACH entries received by your institution
- Network offset ACH credit entries originated
- In-house, on-us offset ACH credit entries originated
- Direct exchange offset ACH credit entries originated
- ACH entries received from other institutions
- Debit ACH entries originated
- Addenda records
- Zero-dollar entries

**Example:** Your corporate customer paid 15 of its employees $300 each electronically through the ACH network. Ten of these employees have deposit accounts at your institution. To credit those ten employees’ accounts, your institution originated in-house on-us credit entries. Your institution originated the credit entries on behalf of your customer for the five employees that do not have a deposit account at your institution and sent them through your chosen network operator (i.e., the Federal Reserve or EPN). In this example, you would report 15 transactions for $4,500.

6.a **Network ACH credit entries originated**

These are credit entries for which your institution was the ODFI, and the credit entry was cleared through a network operator (i.e., the Federal Reserve or EPN). Please refer to the General Terminology section above for the definition of “Network” entries.

**Include:**
- All ACH credit entries cleared through a network operator, for which your institution was the ODFI

**Do not include:**
- ACH entries cleared directly between your institution and another (i.e., direct exchange ACH entries)

**Example:** Your corporate customer paid 5 of its employees $500 each electronically through the ACH network. Your institution originated the credit entries on behalf of your customer and sent them through your chosen network operator (i.e., the Federal Reserve or EPN). In this example, you would report 5 transactions for $2,500.

6.b **In-house on-us ACH credit entries originated**

These are all ACH credit entries that were not cleared through the Federal Reserve or EPN and for which your institution was both the ODFI and RDFI, for the purpose of moving funds from one account to another at your institution.

**Include:**
- All ACH credit entries not cleared through a network operator, for which your institution was the ODFI and RDFI

**Do not include:**
- In-house on-us offset ACH credit entries originated

**Example:** Your corporate customer paid 200 of its employees $800 each electronically through the ACH using your institution as its ODFI. 10 of these employees have deposit accounts at your institution. To credit those 10 employees’ accounts, your institution originated in-house on-us credit entries. In this example, you would report 10 transactions for $8,000.
6.c  **Direct exchange ACH credit entries originated**

These are all ACH credit entries that were originated but not cleared through the Federal Reserve or EPN. Please refer to the General Terminology section above for the definition of "Direct Exchange" entries.

**Include:**
- All direct exchange ACH credit entries, for which your institution was the ODFI

**Do not include:**
- ACH entries received from other institutions
- Debit ACH entries originated
- Network entries originated, such as ACH credits your institution originated through the Federal Reserve or EPN (item 6.a above)
- In-house on-us entries, such as in-house on-us credits your institution originated (item 6.b above)

**Example:** Your institution is part of a regional processing center, and you transact via direct exchange with other institutions that are part of the regional processing center. Your corporate customer paid 10 of its employees $750 each electronically through the ACH. These employees bank at institutions that are also part of the regional processing center. In order to avoid clearing fees from the Federal Reserve or EPN, your institution directs the transaction through the regional processing center to the RDFI via direct exchange. In this example, you would report 10 transactions for $7,500.

7.  **Total forward ACH credits your institution originated (ODFI credits) (repeat item 6)**

= 7.a + 7.b

Repeat item 6 above. These are all cleared and settled, domestic and cross-border, network, on-us, and direct exchange ACH credit entries for which your institution was the ODFI. If your answer is **No** to item 2 above, please report "0" ACH credit entries originated by your institution here.

**Include:**
- In-house on-us forward credit entries for which your institution was both the ODFI and RDFI
- Network forward ACH credits originated
- Network on-us credit entries for which your institution was both the ODFI and RDFI
- All direct exchange ACH credit entries for which you were the ODFI

**Do not include:**
- Returns of ACH entries received by your institution
- Network offset ACH credit entries originated
- In-house on-us offset ACH credit entries originated
- ACH entries received from other institutions
- Debit ACH entries originated
- Addenda records
- Zero-dollar entries

**Example:** Your corporate customer paid 15 of its employees $300 each electronically through the ACH network. Ten of these employees have deposit accounts at your institution. To credit those ten employees’ accounts, your institution originated in-house on-us credit entries. Your institution originated the credit entries on behalf of your customer for the five employees that do not have a deposit account at your institution and sent them through your chosen network operator (i.e., the Federal Reserve or EPN). In this example, you would report 15 transactions for $4,500.

7.a  **From consumer accounts**

These are credit entries for which your institution was the ODFI and were originated from consumer accounts. Please refer to the General Terminology section above for the definition of consumer accounts.

**Include:**
- All ACH credit originations from consumer accounts, for which your institution was the ODFI

**Do not include:**
- Any ACH credit originations from business/government accounts, for which your institution was the ODFI

**Example:** Your consumer customer, Joe, initiated a one-time payment for $1,000 to his friend through ACH. Your institution originated the credit entries on behalf of your customer and sent them through your chosen network operator (i.e., the Federal Reserve or EPN). In this example, you would report one entry for $1,000.
7.b From business/government accounts
These are credit entries for which your institution was the ODFI and were originated from business/government accounts. Please refer to the General Terminology section above for the definition of business/government accounts.

Include:
- All credit originations from business/government accounts, for which your institution was the ODFI

Do not include:
- Any credit originations from consumer accounts, for which your institution was the ODFI

► Example: Your corporate customer, Bob’s Hotel, paid 20 of its employees $1,500 each electronically through the ACH. Your institution originated the credit entries on behalf of your customer and sent them through your chosen network operator (i.e., the Federal Reserve or EPN). In this example, you would report twenty transactions for $30,000.

8. Total forward ACH credits your institution originated (ODFI credits) (repeat item 6) = 8.a + 8.b
Repeat item 6 above. These are all cleared and settled, domestic and cross-border, network, on-us, and direct exchange ACH credit entries for which your institution was the ODFI. If your answer is No to item 2 above, please report “0” ACH credit entries originated by your institution here.

Include:
- In-house on-us forward credit entries for which your institution was both the ODFI and RDFI
- Network forward ACH credits originated
- Network on-us credit entries for which your institution was both the ODFI and RDFI
- All direct exchange ACH credit entries for which you were the ODFI

Do not include:
- Returns of ACH entries received by your institution
- Network offset ACH credit entries originated
- In-house on-us offset ACH credit entries originated
- ACH entries received from other institutions
- Debit ACH entries originated
- Addenda records
- Zero-dollar entries

► Example: Your corporate customer paid 15 of its employees $300 each electronically through the ACH network. 10 of these employees have deposit accounts at your institution. To credit those 10 employees’ accounts, your institution originated in-house on-us credit entries. Your institution originated the credit entries on behalf of your customer for the 5 employees that do not have a deposit account at your institution and sent them through your chosen network operator (i.e., the Federal Reserve or EPN). In this example, you would report 15 transactions for $4,500.

8.a Same-day settlement
These are credit entries for which your institution was the ODFI and for which the payment was settled on the same day. Please refer to the General Terminology section above for the definition of same-day ACH entries. If your answer is No to item 5 above, please report “0” here.

Include:
- All ACH credit originations settled same-day, for which your institution was the ODFI

Do not include:
- Any ACH credit originations settled non-same-day, for which your institution was the ODFI

► Example: Your corporate customer, Sally’s Plumbing, initiated a one-time bill payment for $2,500 to one of its vendors, ABC Supplies, through the ACH network. The vendor does not bank with your institution. Since the payment of this bill was urgent, your customer decided to use the same-day settlement option your institution began offering on September 23, 2016. Since the ACH credit was sent to an unaffiliated institution, your institution sent the ACH entries through a network operator (i.e., the Federal Reserve or EPN). In this example, you would report 1 entry for $2,500.

8.b Non-same-day settlement
These are credit entries for which your institution was the ODFI and for which the payment was settled on a later day after the transaction cleared.

Include:
- All ACH credit originations settled non-same-day, for which your institution was the ODFI
Do not include:
- Any ACH credit originations settled same-day, for which your institution was the ODFI

**Example:** Your corporate customer paid 50 of its employees $2,400 each electronically through the ACH. Your institution originated the credit entries on behalf of your customer and sent them through your chosen network operator (i.e., the Federal Reserve or EPN). The settlement of money occurred on a different day from the transmission of the file. In this example, you would report 50 transactions for $120,000.

9. **Third-party fraudulent forward ACH credit entries your institution originated (fraudulent ODFI credits) = 9.a + 9.b**

These include only third-party, fraudulent, unauthorized ACH credit entries that cleared and settled, for which your institution was the ODFI, and that resulted in transfer of funds to the RDFI. These entries are typically fraudulent payments resulting from an account takeover by an unauthorized third party. Please report any third-party ACH transactions, regardless of whether your accountholder recovered the funds. If your answer is **No** to item 2 above, please report “0” ACH third party fraudulent credit entries originated by your institution here.

**Include:**
- Only fraudulent, cleared and settled ACH credit transactions originated by your institution that were not authorized by your institution’s accountholders (third-party fraud). If the fraudulent transaction was on-us, “cleared and settled” means that the funds were made available to the receiving accountholder.
- Fraudulent on-us ACH credit transactions

**Do not include:**
- ACH fraud attempts that were prevented before all funds were made available to the RDFI
- Returns solely for reason codes R05, R07, R10, R29, or R51 (i.e., verify with your fraud department that the unauthorized transaction was actual fraud and that the transaction settled with the RDFI)
- Fraud committed by your institution's accountholders (first-party fraud)
- Fraud committed by a valid accountholder (first-party fraud)
- Fraudulent ACH credit entries originated and authorized by a valid accountholder as part of a scam
- Fraudulent ACH credit entries that were originated by your institution and cleared and settled, but the funds were frozen and did not become available to the perpetrator at any time
- Fraudulent ACH credit entries received by your institution in which another institution was the ODFI
- Fraudulent ACH debit entries

**Example 1:** A small business accountholder at your institution originated vendor payments via ACH through your online portal. His PC was compromised by malware, and his login credentials were stolen. The perpetrator originated 10 payments for $10,000 each to an account he maintains under a false name. The funds were then made available to the perpetrator’s account after the transactions cleared and settled. One day later, the same perpetrator attempted to initiate 5 more payments of $5,000 each. The accountholder had already alerted your institution to the previous fraud, so your institution put a hold on the account and these funds were never made available to the perpetrator. In this example, you would report 10 transactions for $100,000.

**Example 2:** A small business accountholder at your institution originated salary payments via ACH through your online portal. The owner of the company fell out of favor with a recently fired employee, Joe. To wrongly retrieve the last salary payment to Joe, the owner of the company claimed that the last ACH transfer of funds to Joe was fraudulent. Your institution opened a fraud claim and verified that the transaction was not fraudulent. Since this is an example of first-party fraud (false claim of fraud), do not include this transaction in item 9 above.

9.a **Same-day settlement**

These include only third-party, fraudulent, unauthorized ACH credit entries for which your institution was the ODFI and that resulted in a transfer of funds to the RDFI on the same day the ACH file was sent. Please report any third-party ACH transactions, regardless of whether or not your accountholder recovered the funds. If your answer is **No** to item 5 above, please report “0” ACH credit entries your institution originated here.

**Include:**
- All third-party, fraudulent, ACH credit transactions cleared and settled on the same-day, for which your institution was the ODFI

**Do not include:**
- Fraudulent ACH credit entries originated and settled non-same-day
Example 1: A small business accountholder at your institution originates vendor payments via ACH through your online portal. His PC was compromised by malware, and his login credentials were stolen. The perpetrator originated five payments for $1,000 each to an account he maintains under a false name. The funds were made available to the perpetrator’s account on the same day the transactions cleared. In this example, you would report five transactions for $5,000.

Example 2: A small business accountholder at your institution originates vendor payments via ACH through your online portal. He recently acquired an expensive tool for his business and paid for it via ACH, and the funds settled on the same day the file was transferred. The tool malfunctioned after five days of use, and the vendor did not offer a warranty. Your accountholder claimed the ACH payment as fraud, since he felt the vendor was unethical by not offering to send a replacement tool or a refund. Since this is an example of first-party fraud (false claim of fraud), do not include this transaction in item 9.a above.

9.b Non-same-day settlement
These include only third-party, fraudulent, unauthorized ACH credit entries for which your institution was the ODFI and that resulted in a transfer of funds to the RDFI on a different day from when the ACH file was sent. Please report any third-party ACH transactions, regardless of whether or not your accountholder recovered the funds.

Include:
- All third-party, fraudulent, ACH credit transactions cleared and settled non-same-day, for which your institution was the ODFI

Do not include:
- Fraudulent ACH credit entries originated and settled same-day

Example 1: A small business accountholder at your institution originates vendor payments via ACH through your online portal. His PC was compromised by malware, and his login credentials were stolen. The perpetrator originated three payments for $3,000 each to an account he maintains under a false name. The funds were made available to the perpetrator’s account two days after the transactions cleared. In this example, you would report three transactions for $9,000.

Example 2: A small business accountholder at your institution originates vendor payments via ACH through your online portal. He recently acquired an expensive tool for his business and paid for it via ACH, and the funds settled two days after the file was transferred. The tool malfunctioned after five days of use, and the vendor did not offer a warranty. Your accountholder claimed the ACH payment as fraud, since he felt the vendor was unethical by not offering to send a replacement tool or a refund. Since this is an example of first-party fraud (false claim of fraud), do not include this transaction in item 9.b above.

10. Total forward ACH debit entries your institution originated (ODFI debits)
These include all cleared and settled, domestic and cross-border, network, on-us, and direct exchange ACH debit entries for which your institution was the ODFI. Exclude returns. If your answer is No to item 3 above, please report “0” here.

Include:
- In-house, on-us forward debit entries for which your institution was both the ODFI and RDFI
- Network forward ACH debits originated
- Network on-us debit entries for which your institution was both the ODFI and RDFI
- All direct exchange ACH debit entries for which you are the ODFI

Do not include:
- Returns
- Network offset ACH debit entries originated
- In-house, on-us offset ACH debit entries originated
- ACH entries received from other institutions
- Credit ACH entries originated
- Addenda records
- Zero-dollar entries

Example: Your corporate customer billed 10 of its suppliers $100 each electronically through the ACH using your institution as its ODFI. 5 of these employees have deposit accounts at your institution. To debit those 10 employees’ accounts, your institution originated in-house on-us debit entries to avoid clearing fees from the Federal Reserve or EPN. One employee has a deposit account with an institution in which you have a direct exchange relationship. For this employee, your institution originated an ACH debit entry via direct exchange. For the other four employees, your institution originated ACH debit entries through the network. In this example, you would report 10 transactions for $1,000.
11. **Third-party fraudulent forward ACH debit entries your institution originated (fraudulent ODFI debits)**

These include only third-party, fraudulent, unauthorized ACH debit entries that cleared and settled, for which your institution was the ODFI, and that resulted in transfer of funds from the RDFI. These entries are typically fraudulent payments resulting from an account takeover by an unauthorized third party. Please report any third-party ACH transactions, regardless of whether your accountholder recovered the funds. If your answer is **No** to item 3 above, please report “0” here.

**Include:**
- Only fraudulent, cleared and settled ACH debit transactions originated by your institution that were not authorized by your institution’s accountholders (third-party fraud). If the fraudulent transaction was on-us, “cleared and settled” means that the funds were made available to the receiving accountholder.
- Fraudulent on-us ACH debit transactions

**Do not include:**
- ACH fraud attempts that were prevented before all funds were made available to the RDFI
- Returns solely for reason codes R05, R07, R10, R29, or R51 (i.e., verify with your fraud department that the unauthorized transaction was actual fraud and that the transaction settled with the RDFI)
- Fraud committed by your institution’s accountholders (first-party fraud)
- Fraud committed by a valid accountholder (first-party fraud)
- Fraudulent ACH debit entries originated and authorized by a valid accountholder as part of a scam
- Fraudulent ACH debit entries that were originated by your institution and cleared and settled, but the funds were frozen and did not become available to the perpetrator at any time
- Fraudulent ACH debit entries received by your institution in which another institution was the ODFI
- Fraudulent ACH credit entries

**Example:** Jill is a small business accountholder at your institution. Her PC was compromised by malware, and her login credentials were stolen. The perpetrator originated 10 fake bills for $10,000 each to ten of Jill’s suppliers. The perpetrator maintained control of your client’s account while the transactions cleared and settled, so the funds were made available to him. Two days later, the same perpetrator attempted to initiate 5 more bills of $5,000 each. The accountholder had already alerted your institution to the previous fraud, so your institution put a hold on the account and these funds were never made available to the perpetrator. In this example, you would report 10 transactions for $100,000.
**ACH Receipts and Outgoing Returns**

12. **Total forward ACH debit entries your institution received (RDFI debits) = 12.a + 12.b + 12.c**

These include all cleared and settled, domestic and cross-border, network, on-us, and direct exchange ACH debit entries for which your institution was the ODFI.

**Include:**
- In-house, on-us forward debit entries for which your institution was both the ODFI and RDFI
- Network forward ACH debits received
- Network on-us debit entries for which your institution was both the ODFI and RDFI
- All direct exchange ACH debit entries for which your institution is the RDFI

**Do not include:**
- Returns of ACH entries originated by your institution
- Network offset ACH debit entries received
- In-house, on-us offset ACH debit entries received
- ACH entries originated from other institutions
- Credit ACH entries received
- Addenda records
- Zero-dollar entries

► **Example:** Your corporate customer, a cable company, collected monthly payments of $50 from its 30 customers by originating ACH debit entries using your institution as its ODFI. 20 of those cable company customers also have a deposit account at your institution. To debit the accounts of those customers, your institution originated in-house on-us debit entries for $50 each. In this example, you would report 30 for $1,500.

12.a **Network ACH debit entries received**

These are debit entries for which your institution was the RDFI (but not the ODFI), and the debit entry was cleared through a network operator (i.e., the Federal Reserve or EPN). Please refer to the **General Terminology** section above for the definition of “network” entries.

**Include:**
- Network non-offset ACH debit entries received

**Do not include:**
- ACH entries cleared directly between your institution and another (i.e., direct exchange ACH entries)

► **Example:** Your customer has set up direct debit of his checking account for a recurring, monthly cell phone bill payment of $50. His biller, the cell phone company, originated debit entries through another depository institution (i.e., the ODFI), and your institution received and posted these debit entries to your customer's account. In this example, you would report 12 transactions for $600.

12.b **In-house on-us ACH debit entries received**

These include all ACH debit entries that were not cleared through the Federal Reserve or EPN, for which your institution was both the ODFI and RDFI, and that were originated for the purpose of moving funds from one account to another at your institution. If your answer is No to item 3 above, please report “0” here.

**Include:**
- In-house on-us non-offset debit entries for which your institution was both the ODFI and RDFI

**Do not include:**
- In-house on-us credits your institution originated

► **Example:** Your corporate customer, a cable company, collected monthly payments from its customers by originating ACH debit entries using your institution as its ODFI. 20 of those cable company customers also have a deposit account at your institution. To debit the accounts of those customers, your institution originated in-house on-us debit entries for $45 each to avoid clearing fees from the Federal Reserve or EPN. In this example, you would report 240 transactions for $10,800.

12.c **Direct exchange ACH debit entries received**

These include all ACH debit entries received and not cleared through the Federal Reserve or EPN. Please refer to the **General Terminology** section above for the definition of “Direct Exchange” entries.

**Include:**
- All direct exchange ACH debit entries for which you are the RDFI
Do not include:
- Debit ACH entries originated
- In-house on-us credit entries your institution originated

► Example: A cable company that is not your corporate customer collected monthly payments of $30 from its customers by originating ACH debit entries using a different institution as its ODFI. 10 of those customers bank at your institution. Your institution has established direct exchange relationships with the ODFI to avoid clearing fees from the Federal Reserve or EPN. To debit the accounts of those customers, your institution received debit entries via direct exchange. Please report 120 transactions for $3,600.

13. Total forward ACH debit entries your institution received (RDFI debits) (repeat item 12) = 13.a + 13.b
Repeat item 12 above. These include all cleared and settled, domestic and cross-border, network, on-us, and direct exchange ACH debit entries for which your institution was the ODFI.

Include:
- In-house on-us forward debit entries for which your institution was both the ODFI and RDFI
- Network forward ACH debits received
- Network on-us debit entries for which your institution was both the ODFI and RDFI
- All direct exchange ACH debit entries for which you were the RDFI

Do not include:
- Returns of ACH entries originated by your institution
- Network offset ACH debit entries originated
- In-house on-us offset ACH debit entries originated
- ACH entries received from other institutions
- Credit ACH entries received
- Addenda records
- Zero-dollar entries

► Example: Your corporate customer, a cable company, collected monthly payments of $50 from its 30 customers by originating ACH debit entries using your institution as its ODFI. 20 of those cable company customers also have a deposit account at your institution. To debit the accounts of those customers, your institution originated in-house on-us debit entries for $50 each. In this example, you would report 30 for $1,500.

13.a For consumer accounts
Please refer to the General Terminology section above for the definition of consumer accounts.

Include:
- All ACH debits received from consumer accounts, for which your institution was the RDFI

Do not include:
- Any ACH debits received from business/government accounts, for which your institution was the RDFI

► Example: Your consumer customer, Paul, received a bill payment of $500 from his landlord, which was sent electronically through the ACH. Your institution received the debit entry on behalf of Paul. In this example, you would report one transaction for $500.

13.b For business/government accounts
Please refer to the General Terminology section above for the definition of business/government accounts.

Include:
- All ACH debits received from business/government accounts, for which your institution was the RDFI

Do not include:
- Any ACH debits received from consumer accounts, for which your institution was the RDFI

► Example: Your corporate customer, Bill’s Paint Supply, received 5 bill payments of $2,000 from its suppliers, each sent electronically through the ACH. Your institution received the debit entries on behalf of your customer. In this example, you would report five transactions for $10,000.
14. **Total forward ACH debit entries your institution received (RDFI debits) (repeat item 12)**

\[14.a + 14.b\]

Repeat item 12 above. These are all cleared and settled, domestic and cross-border, network, on-us, and direct exchange ACH debit entries for which your institution was the RDFI.

**Include:**
- In-house on-us forward debit entries for which your institution was both the ODFI and RDFI
- Network forward ACH debits received
- Network on-us debit entries for which your institution was both the ODFI and RDFI
- All direct exchange ACH debit entries for which you were the RDFI

**Do not include:**
- Returns of ACH entries originated by your institution
- Network offset ACH debit entries originated
- In-house on-us offset ACH debit entries originated
- ACH entries received from other institutions
- Credit ACH entries received
- Addenda records
- Zero-dollar entries

**Example:** Your corporate customer, a cable company, collected monthly payments of $50 from its 30 customers by originating ACH debit entries using your institution as its ODFI. 20 of those cable company customers also have a deposit account at your institution. To debit the accounts of those customers, your institution originated in-house on-us debit entries for $50. In this example, you would report 30 for $1,500.

14.a **Same-day settlement**

These are debit entries for which your institution was the RDFI, and the payment was settled on the same day. Please refer to the General Terminology section above for the definition of same-day ACH entries.

**Include:**
- All ACH debits received and settled same-day, for which your institution was the RDFI

**Do not include:**
- Any ACH debits received and settled non-same-day, for which your institution was the RDFI

**Example:** Your corporate customer, Mike’s Hardware, received a one-time bill payment for $2,500 from one of its customers, Sally’s Supplies, through the ACH network. Sally’s Supplies does not bank with your institution. Since the payment of this bill was urgent, Sally’s Supplies decided to use the same-day settlement option. In this example, you would report one entry for $2,500.

14.b **Non-same-day settlement**

These are debit entries for which your institution was the RDFI, and the payment was settled on a later day after the settlement file was transmitted.

**Include:**
- All ACH debits received and settled non-same-day, for which your institution was the RDFI

**Do not include:**
- Any ACH debits received and settled same-day, for which your institution was the RDFI

**Example:** Your customer has set up direct debit of his checking account for a recurring, monthly cell phone bill payment of $50. His biller, the cell phone company, originated debit entries through another depository institution (i.e., the ODFI). Your institution received and posted these debit entries to your customer’s account. The settlement of money occurred on a different day than the transmission of the file. In this example, you would report 12 transactions for $600.
15. **Third-party fraudulent forward ACH debit entries your institution received (fraudulent RDFI debits) = 15.a + 15.b**

Third-party, fraudulent, unauthorized ACH debit entries that cleared and settled, for which your institution was the RDFI, and that resulted in a transfer of funds to the ODFI.

**Include:**
- Any fraudulent, third-party ACH transactions, regardless of whether or not your accountholder recovered the funds.

**Do not include:**
- ACH fraud attempts that were prevented before all funds were made available to the ODFI
- Returns solely for reason codes R05, R07, R10, R29, or R51 (i.e., verify with your fraud department that the unauthorized transaction was actual fraud and that the transaction settled with the ODFI)
- Fraudulent ACH debit received and authorized by a valid accountholder as part of a scam (first-party fraud)
- Fraudulent ACH debit entries received that cleared and settled, but the funds were frozen and did not become available to the perpetrator at any time
- Fraudulent ACH debit entries originated by your institution, in which another institution was the RDFI
- Fraudulent ACH credit entries

► **Example 1:** A fraudster opened a commercial bank account for a fictitious housecleaning service at another institution. He then originated unauthorized bill payments for hundreds of consumer accounts, 5 of which were at your institution. Each of those accounts was debited once for $200. The received debit ACH transactions cleared and settled with the ODFI. The $1,000 debited from your accountholders was made available to the fraudster’s account. In this example, you would report 5 transactions for $1,000.

► **Example 2:** Jim is an accountholder at your institution. He lost his job and has not been able to find employment in the last six months. His cellphone provider originated an ACH debit transaction for his monthly bill of $150. The transaction cleared and settled a day later, but Jim claimed the transaction as fraudulent since he needs the $150 to pay part of his rent. Since this transaction is an example of first-party fraud (false claim of fraud), it should not be included in item 15 above.

15.a **Same-day settlement**

These include only third-party, fraudulent, unauthorized ACH debit entries that cleared and settled on the same day as the transmission, for which your institution was the RDFI, and that resulted in transfer of funds to the ODFI. Please report any fraudulent, third-party ACH transactions, regardless of whether or not your accountholder recovered the funds.

**Include:**
- All third-party, fraudulent, ACH debit transactions cleared and settled on the same-day, for which your institution was the RDFI

► **Example:** A fraudster opened a commercial bank account for a fictitious gardening company at another institution and originated unauthorized bill payment for one of your accountholders for $1,000, using the same-day settlement option. The received debit cleared and settled (on the same day) for $1,000. In this example, you would report one transaction for $1,000.

15.b **Non-same-day settlement**

These include only third-party, fraudulent, unauthorized ACH debit entries that settled on a later date than file transmission, for which your institution was the RDFI, and that resulted in the transfer of funds to the ODFI. Please report any fraudulent, third-party ACH transactions, regardless of whether or not your accountholder recovered the funds.

**Include:**
- All third-party, fraudulent, ACH debit transactions cleared and settled non-same-day, for which your institution was the RDFI

► **Example 1:** A fraudster opened a commercial bank account for a fictitious house-cleaning service at another institution and originated unauthorized bill payments for hundreds of consumer accounts. Five of those accounts were at your institution, and each was debited once for $200 (not on the same day as the file transmission). The received debit ACH transactions cleared and settled with the ODFI on a different day. The $1,000 debited from your accountholders was made available to the fraudster’s account. In this example, you would report five transactions for $1,000.

► **Example 2:** Jim is an accountholder at your institution. He lost his job and has not been able to find employment in the last six months. His cellphone provider originated an ACH debit transaction for his monthly bill of $150. The transaction cleared and settled non-same day, but Jim claimed the transaction as fraudulent since he needs the $150 to pay part of his rent. Since this transaction is an example of first-party fraud (false claim of fraud), you would not include it in item 15.b above.
16. **Total ACH outgoing debit returns (i.e., debit return entries your institution originated including “on-us” debit returns)**

These are ACH debit entries that your institution received and were subsequently returned by your institution, the RDFI.

**Include:**
- All outgoing ACH debit entries that your institution returned unpaid (whether to another institution or to your own accountholders)

**Do not include:**
- ACH entries returned to your institution unpaid by another institution (incoming)

► **Example:** Your customer pays his utility bill through the utility company’s website. The utility company’s bank (which may or may not be your institution) originates a debit ACH entry for $86. However, your customer’s account has insufficient funds, and your institution returns the ACH entry unpaid. In this example, you would report 1 transaction for $86.
**Wire Transfers Originated (Outgoing)**

**GENERAL TERMINOLOGY**

**Your institution**
“Your institution” refers to the participating depository institution at its highest organizational level (i.e., holding company, if applicable), including all affiliates. Only report data associated with your institution’s U.S. domiciled accounts (i.e., those accounts located within the 50 U.S. states, D.C., or U.S. territories such as Guam, Puerto Rico, or U.S. Virgin Islands), including both domestic and cross-border transactions.

**Account type definitions**

**Consumer account**
A transaction deposit or savings account for personal use by an individual or household from which wire payments can be made.

**Business/government account**
A transaction deposit or savings account owned by an organization (i.e., business, government, non-depository financial institution, or not-for-profit organization) from which wire payments can be made.

**Note:** Please report small business accounts under business/government accounts, if possible.

**Third-party fraud**
The Federal Reserve Payments Study has identified a measure of fraud that can be described as cleared and settled third-party fraudulent transactions. This measure is not a loss-of-funds measure, nor is it a measure of fraud attempts; rather, it is a measure of the extent to which third parties who are not authorized to conduct transactions are able to penetrate the payment system and affect settlement between banks, or create a book transfer of funds if the transaction happens within one institution. The definition includes third-party fraud with all types of outcomes that may or may not include a loss to various entities, but constitutes a fraud attempt that manages to create a funds transfer, if only temporary. The definition is depicted below within the hierarchy of fraud attempts visible to your institution. The definition of fraud in this study is highlighted in yellow to show that cleared and settled third-party fraud includes at least six different categories of fraud outcomes.

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**Diagram**

- **Gross fraud (total attempts at fraud by third parties)**
  - **Cleared but not settled third-party fraud (for cards, third-party fraud attempts that were not authorized)**
  - **Cleared & settled third-party fraud**
    - **Returned fraud**
      - Depositing customer charged
      - Courtesy write-off (collecting bank, acquiring bank, debit ODFI, credit RDI loss)
      - Recovered from third parties
    - Charged to accountholder ("paying" customer charged)
      - Courtesy write-off (paying bank, issuing bank, debit RDI, credit ODFI loss)
      - Recovered from third parties

**SURVEY ITEMS**

1. **Did your institution originate wires on behalf of an unaffiliated depository institution during calendar year 2020 (i.e., correspondent volume)?**
   
   If your answer to this question is No, please skip item 1.a below.
   
   1.a **If your answer is “Yes” to item 1 above, are you able to exclude these volumes from your answers below?**
   
   If your answer is Yes, in some cases, please explain in the comments box at the end of this section. Even if you are unable to exclude these volumes, please report all wires originated by your institution below.

2. **Did an unaffiliated depository institution originate wires on behalf of your institution during calendar year 2020?**
   
   If your answer to this question is No, please skip item 2.a below.
   
   2.a **If your answer is “Yes” to item 2 above, are you able to include these volumes from your answers below?**
   
   If your answer is Yes, in some cases, please explain in the comments box at the end of this section. Even if you are unable to include these volumes, please report all wires originated by your institution below.

3. **Total wire transfer originations (outgoing) = 3.a + 3.b**
   
   These include all cleared and settled, domestic and cross-border wire transfers originated by your institution’s U.S. domiciled accountholders with either a domestic or foreign beneficiary.

   **Include:**
   - Funds transfers originated using the large-value systems (i.e., Fedwire and CHIPS)
   - Payments that your institution’s accountholders submitted and settled through these systems directly or through a correspondent (i.e., wire transfers originated on your institution’s behalf by a correspondent)
   - Book transfers (i.e., internal transfers using your institution’s wire platform)
   - All wire transfers originated for the purpose of paying one of your institution’s vendors or settling your institution’s position with another institution (i.e., settlement/bank business wire transfers)

   **Do not include:**
   - Wire transfers your institution originated on behalf of an unaffiliated depository institution (i.e., correspondent volume)

   **Example:** Your institution originated a $15,000 wire transfer on behalf of your corporate customer to pay its third-party vendor via Fedwire. The vendor may or may not have a depository relationship with your institution. The vendor may or may not have a U.S. domiciled account. In this example, you would report one transaction for $15,000.

3.a **Consumer originated wire transfers**
   
   All wire transfers originated from consumer accounts of any type at your institution. Please see the General Terminology section above for the definition of consumer accounts.

   **Include:**
   - Wire transfers originated from consumer accounts of any type

   **Do not include:**
   - Wire transfers originated from business/government accounts
   - Wire transfers your institution originated on behalf of an unaffiliated depository institution (i.e., correspondent volume)

   **Example:** Your institution originated a wire transfer for $10,000 on behalf of your consumer customer to pay his daughter’s college tuition. Your institution originated the wire on behalf of your customer to the school to fund his daughter’s college tuition via Fedwire. The school may or may not have a depository relationship with your institution. The school may or may not have a U.S. domiciled account. In this example, you would report one transaction for $10,000.
3.b Business/government originated wire transfers

Wire transfers originated from business/government (including non-depository financial institutions) accounts of any type at your institution. Please include small business accounts under business/government accounts. Please see the General Terminology section above for the definition of business/government accounts.

Include:
- Wire transfers originated from business/government accounts

Do not include:
- Wire transfers originated from consumer accounts of any type
- Wire transfers your institution originated on behalf of an unaffiliated depository institution (i.e., correspondent volume)

Example: Your corporate customer made three wire transfers of $25,000 each through your institution’s wire platform to pay his suppliers. The vendor may or may not have a depository relationship with your institution. And the vendor may or may not have a U.S. domiciled account. In this example, you would report three wire transactions for $75,000.

4. Total wire transfer originations (outgoing) (repeat item 3) = 4.a + 4.b

Repeat item 3 above. These include all cleared and settled, domestic and cross-border wire transfers originated by your institution's U.S. domiciled accountholders with either a domestic or foreign beneficiary.

Include:
- Funds transfers originated using the large-value systems (i.e., Fedwire and CHIPS)
- Payments that your institution’s accountholders submitted and settled through these systems directly or through a correspondent (i.e., wire transfers originated on your institution’s behalf by a correspondent)
- Book transfers (i.e., internal transfers using your institution’s wire platform)
- All wire transfers originated for the purpose of paying one of your institution’s vendors or settling your institution’s position with another institution (i.e., settlement/bank business wire transfers)

Do not include:
- Wire transfers your institution originated on behalf of an unaffiliated depository institution (i.e., correspondent volume)

Example: Your institution originated a $15,000 wire transfer on behalf of your corporate customer to pay its third-party vendor via Fedwire. The vendor may or may not have a depository relationship with your institution. The vendor may or may not have a U.S. domiciled account. In this example, you would report 1 transaction for $15,000.

4.a Domestic (U.S.) payee

These include all wire transfers originated by your institution’s U.S. domiciled accountholders (i.e., those accounts located within the 50 U.S. states, D.C., or U.S. territories) to a domestic beneficiary.

Include:
- Wire transfers sent to a domestic (U.S) payee

Do not include:
- Wire transfers sent to a foreign payee

Example: Your institution originated a wire transfer for $10,000 on behalf of your New York based corporate customer to pay its third-party vendor, also located in New York, via Fedwire. Your client is a U.S. domiciled accountholder. In this example, you would report 1 transaction for $10,000.

4.b Foreign payee

These include all wire transfers originated by your institution's U.S. domiciled accountholders to a foreign beneficiary.

Include:
- Wire transfers sent to a foreign payee

Do not include:
- Wire transfers sent to a domestic (U.S) payee

Example: Your institution originated a wire transfer for $10,000 on behalf of your New York based corporate customer to pay its third-party vendor, located in Spain, via Fedwire. Your client is a U.S. domiciled accountholder. In this example, you would report 1 transaction for $10,000.
5. **Total wire transfer originations (outgoing) (repeat item 3) = 5.a + 5.b**

Repeat item 3 above. These include all cleared and settled, domestic and cross-border wire transfers originated by your institution's U.S. domiciled accountholders with either a domestic or foreign beneficiary, sent through a network/correspondent bank or book transfers.

**Include:**
- Funds transfers originated using the large-value systems (i.e., Fedwire and CHIPS)
- Payments that your institution’s accountholders submitted and settled through these systems directly or through a correspondent (i.e., wire transfers originated on your institution’s behalf by a correspondent)
- Book transfers (i.e., internal transfers using your institution’s wire platform)
- All wire transfers originated for the purpose of paying one of your institution’s vendors or settling your institution’s position with another institution (i.e., settlement/bank business wire transfers)

**Do not include:**
- Wire transfers your institution originated on behalf of an unaffiliated depository institution (i.e., correspondent volume)

► **Example:** Your institution originated a $15,000 wire transfer on behalf of your corporate customer to pay its third-party vendor via Fedwire. The vendor may or may not have a depository relationship with your institution. The vendor may or may not have a U.S. domiciled account. In this example, you would report 1 transaction for $15,000.

5.a **Sent through a network (i.e., Fedwire or CHIPS) or a correspondent bank**

These are wire transfers sent through a network (i.e., Fedwire or CHIPS) or a correspondent bank

**Include:**
- All wire transfers sent through a network (i.e., Fedwire or CHIPS) or a correspondent bank

**Do not include:**
- Book transfers (i.e., internal transfers using your institution’s wire platform)

► **Example:** Your institution originated a wire transfer for $10,000 on behalf of your corporate customer to pay its third-party vendor via Fedwire. The vendor does not have a depository relationship with your institution. In this example, you would report 1 transaction for $10,000.

5.b **Book transfers (i.e., internal transfers using your institution's wire platform)**

These are internal wire transfers that were made using your wire platform. These are sometimes referred to as book transfers.

**Include:**
- All internal wire transfers that were made using your wire platform

**Do not include:**
- Wires that are sent through a network (i.e., Fedwire or CHIPS) or a correspondent bank

► **Example:** Your corporate customer has multiple accounts at your institution, and your institution allows this customer to transfer money among these accounts as a service. These wires are sent over your internal wire platform rather than over a network. Your customer made a wire transfer of $25,000 through your institution’s wire platform for this purpose. In this example, you would report 1 wire transaction for $25,000.

6. **Third-party fraudulent wire transfer originations**

These include all third-party fraudulent unauthorized wire transfer originations that subsequently cleared and settled. Please report any third-party fraudulent wire originations, regardless of whether those funds were subsequently recovered through the wire return process or by other means.

**Include:**
- Fraudulent funds transfers originated using the large-value systems (i.e., Fedwire and CHIPS), including those originated on your institution’s behalf by a correspondent
- Fraudulent book transfers (i.e., internal transfers using your institution’s wire platform)

**Do not include:**
- Fraud originations that were prevented
- Fraudulent wire transfers received by your institution
- Fraud committed by a valid accountholder (first-party fraud)
- Wire transfers originated and authorized by a valid accountholder as part of a scam
Example 1: A small business accountholder at your institution originated a wire payment through your online portal. His PC was compromised by malware, and his login credentials were stolen. The perpetrator originated a wire for $5,000 to an account at your institution and a wire for $10,000 to an account at another institution, both of which accounts were maintained under a false name. The transactions cleared and settled, and the funds became available to the perpetrator. One day later, the same perpetrator attempted to initiate another wire payment of $5,000 to an account at your institution. The small business accountholder had already alerted your institution to the previous fraud, so your institution put a hold on the account and these funds were never made available to the perpetrator. In this example, you would report 2 transactions for $15,000.

Example 2: Jennifer, a small business accountholder at your institution, originated a wire payment of $40,000 to her brother through your online portal. After a heated conversation with her brother, Jennifer decided to recover the money that had been transferred to him. She opened a fraudulent claim with your institution, stating that her brother had logged in to her account and made the wire transfer to his account without her consent. Your institution was able to verify that this was a false, fraudulent claim and that there was no wrongdoing in the transfer of funds. Since this transaction is an example of first-party fraud (false claim of fraud), it should not be included in item 6 above.
Debit Cards

Note: For brevity, we will refer to “non-prepaid debit cards” as “debit cards” and “prepaid debit cards” as “prepaid cards” in the glossary and the questionnaire. This section covers debit card payments from typical transaction or “checking” accounts, and excludes payments from prepaid card accounts (covered in the ‘General-Purpose Prepaid Cards’ section).

GENERAL TERMINOLOGY

Your institution

“Your institution” refers to the participating depository institution at its highest organizational level (i.e., holding company, if applicable), including all affiliates. Only report data associated with your institution’s U.S. domiciled accounts (i.e., those accounts located within the 50 U.S. states, D.C., or U.S. territories such as Guam, Puerto Rico, or U.S. Virgin Islands), including both domestic and cross-border transactions.

Debit card transactions

Debit card transactions is the portion of debit card transactions associated with transaction accounts reported in the Institution Profile section of this survey, but not associated with prepaid debit card accounts (reported in the next section). Included are all transactions made with debit cards via any debit card network (details below). Most debit cards are capable of being processed through a dual-message network as well as one or more single-message networks. Includes cash-back transactions at the point of sale, but does not include cash withdrawals (typically from an automated teller machine (ATM) or over the counter at a bank branch). Transactions may originate, for example, at a physical point of sale, via telephone, or via the internet. For this study, please follow these guidelines:

<table>
<thead>
<tr>
<th>Debit card transactions include...</th>
<th>Debit card transactions do not include...</th>
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<tbody>
<tr>
<td>• Transactions made with Visa, MasterCard, Discover, or American Express branded cards and cleared over dual-message networks. These are typically called signature-based or offline debit card transactions.</td>
<td></td>
</tr>
<tr>
<td>• Transactions made with debit cards and cleared over a general-purpose single-message network. Transactions originated in other countries with debit cards issued from U.S. domiciled accounts</td>
<td></td>
</tr>
<tr>
<td>• Debit card cash-back transactions at the point of sale</td>
<td></td>
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<tr>
<td>• ATM withdrawals</td>
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<td>• Credit card transactions</td>
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<td>• Prepaid card transactions</td>
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<tr>
<td>• Transfers by a corporate customer to fund its employees’ payroll card accounts</td>
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<tr>
<td>• Electronic benefits transfer (EBT) card transactions made using a proprietary network (e.g., Quest network) for that purpose</td>
<td></td>
</tr>
<tr>
<td>• Payroll card transactions by the cardholder</td>
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Digital Wallet

All debit card transactions made using a digital wallet in which users can complete purchases using near-field communication (NFC) that works in conjunction with mobile payment systems, MST (magnetic secure transmission) transactions, QR code transactions, barcode transactions, in-app transactions, or browser transactions. Digital wallets can be used for in-person transactions or remote transactions. In-person transactions require the payment holder to be present to use their digital wallet, while remote transactions are used during e-commerce sales in which the authorization and transaction processes are not physically close to each other.

Digital wallet transactions include those made by using electronic devices, such as a smartphone, smart watch, or activity tracker, by “tapping” the device at the POS terminal (e.g., Apple Pay, Samsung Pay, Google Pay, Fitbit Pay, Masterpass).

They also include tokenized digital wallet transactions made by using customer’s payment credentials saved in a virtual account number. These credentials can be stored either on a smartphone or in the cloud. When making a purchase, a substitute account number and a transaction specific code (“token”) are used to process payments. This can include purchasing items online with a computer or using a smartphone to make a purchase with a browser or in-app (e.g., Apple Pay, Google Pay, Masterpass, Visa Checkout, Amex Express Checkout).
Virtual Card
Virtual cards are used for online or over the phone purchases and do not require the accountholder to have a physical card. Virtual cards may provide greater security than a physical card because they use a unique card number, expiration date, and security code that is only valid at specific merchants or for a specific amount of time.

Contactless Card
A contactless card payment is a secure method for customers to purchase products or services via debit smartcards (also known as chip cards) using RFID technology. To make a contactless payment, the user simply tap his or her debit card near a POS terminal (an action sometimes referred to as “tap-and-go” or “tap-and-pay”).

Account type definitions

Consumer account
A transaction deposit or savings account for personal use by an individual or household from which payments can be made.

Business/government account
A transaction deposit or savings account owned by an organization (i.e., business, government, non-depository financial institution, or not-for-profit organization) from which payments can be made.

Note: Please report small business accounts under business/government accounts, if possible.

Third-party fraud
The Federal Reserve Payments Study has identified a measure of fraud that can be described as cleared and settled third-party fraudulent transactions. This measure is not a loss-of-funds measure, nor is it a measure of fraud attempts; rather, it is a measure of the extent to which third parties who are not authorized to conduct transactions are able to penetrate the payment system and affect settlement between banks, or create a book transfer of funds if the transaction happens within one institution. The definition includes third-party fraud with all types of outcomes that may or may not include a loss to various entities, but constitutes a fraud attempt that manages to create a funds transfer, if only temporary. The definition is depicted below within the hierarchy of fraud attempts visible to your institution. The definition of fraud in this study is highlighted in yellow to show that cleared and settled third-party fraud includes at least six different categories of fraud outcomes.
SURVEY ITEMS

1. **Did your institution have debit cards in circulation in 2020 for which your institution was the issuer?**

These include cards issued by your institution, including those that your institution issued, that are managed by a third-party, and that route transactions over a general-use debit card network. If your answer to this question is **No**, please report “0” for all items below.

**Include:**
- Debit cards associated with transaction deposit accounts reported in the Institution Profile section
- Debit cards (not including prepaid cards) that can be used to make purchases at the point of sale

**Do not include:**
- ATM-only cards, prepaid cards, credit cards, or EBT cards

1.a **If your answer is “Yes” to item 1 above, are you able to exclude general-purpose prepaid cards from all items below?**

General-purpose prepaid card (including payroll card) transactions should only be included in the volumes reported in the General-Purpose Prepaid Cards section of the questionnaire.

If your answer is **Yes, in some cases**, please explain in the comments box at the end of this section.

If your answer is **No**, please report the combined volumes of debit card transactions and general-purpose prepaid card transactions for all items below, and explain in the comments box at the end of this section.

2. **Did your institution have virtual debit cards in circulation in 2020 for which your institution was the issuer?**

Please see the **General Terminology** section above for the definition of virtual cards. If your answer is **Yes**, please include the number of virtual debit card transactions for all volume items below, but do not include virtual cards in the number of physical cards in item 3 and its subsets below.

**Include:**
- Virtual debit cards associated with transaction deposit accounts reported in the Institution Profile section

**Do not include:**
- ATM-only cards, prepaid cards, credit cards or EBT cards

3. **Number of physical debit cards = 3.a + 3.b**

Report debit cards associated with transaction deposit accounts reported in the Institution Profile section.

**For cards in force** report only debit cards that can be used at the point of sale, were issued by your institution, activated by your institution’s accountholders, have not expired at the end of a month, and draw on the transaction deposit accounts reported in item 1 in the Institution Profile section.

Average of monthly totals means the average of end-of-month totals for each of the months in 2020. If your answer is **No** to item 1 above, please report “0” here.

**Include:**
- Debit cards associated with both consumer and business/government transaction deposit accounts reported in the Institution Profile section
- Debit cards (not including prepaid cards) that can be used to make purchases at the point of sale

**Do not include:**
- Virtual cards, ATM-only cards, prepaid cards, credit cards, or EBT cards

**Example:** Your institution has 500 consumer and business banking accounts, with 500 debit cards issued that are related to these accounts at the end of January. Of these debit cards, 450 cards have been activated and are not expired, 30 cards have not been activated yet, and 20 cards have been activated but are now expired. In this example, you would report 450 debit cards in force for January. Repeat this calculation for every month and then average the total across 12 months.

3.a **Consumer cards**

These include all debit cards that draw on consumer accounts. Please see the **General Terminology** section above for the definition of consumer accounts.
Include:
- Debit cards associated with consumer transaction deposit accounts reported in the Institution Profile section
- Consumer debit cards (not including prepaid cards) that can be used to make purchases at the point of sale

Do not include:
- Virtual cards, ATM-only cards, prepaid cards, credit cards, EBT cards, or any type of business card

Example: Your institution has 500 personal banking accounts, with 500 debit cards issued that are related to these accounts at the end of January. Of these debit cards, 450 cards have been activated and are not expired, 30 cards have not been activated yet, and 20 cards have been activated but are now expired. In this example, you would report 450 consumer debit cards in force for January. Repeat this calculation for every month and then average the total across 12 months.

3.b Business/government cards
These include all debit cards that draw on business/government accounts. Please see the General Terminology section above for the definition of business/government accounts.

Include:
- Debit cards associated with business/government transaction deposit accounts reported in the Institution Profile section

Do not include:
- Virtual cards, ATM-only cards, prepaid cards, credit cards, EBT cards, or any type of consumer card

Example: Your institution has 1,000 business banking accounts, with 1,000 debit cards issued that are related to these accounts at the end of January. Of these debit cards, 900 cards have been activated and are not expired, 70 cards have not been activated yet, and 30 cards have been activated but are now expired. In this example, you would report 900 business debit cards in force for January. Repeat this calculation for every month and then average the total across 12 months.

4. Total debit card transactions = 4.a + 4.b
These include all cleared and settled, domestic and cross-border transactions over any debit card network for which your institution was the issuer. Include all point-of-sale or bill-pay transactions made by debit cards processed over either signature payment card networks or PIN payment card networks. If your answer is No to item 1 above, please report “0” here.

Include:
- Both consumer and business/government debit card transactions
- Both in-person and remote debit card transactions
- Debit card cash-back transactions at the point of sale

Do not include:
- Cash withdrawals over the counter
- ATM withdrawals
- Prepaid card transactions
- Credit card transactions

Example: Your customer bought $30 of groceries and received $20 cash back with her debit card by entering her PIN at the checkout line, for a transaction total of $50. Later that day, she used the same debit card issued by your institution to purchase a $70 purse online. In this example, you would report two transactions for $120.

4.a From consumer accounts
These include all transactions made by consumer accountholders over any debit card network for which your institution was the issuer. Please see the General Terminology section above for the definition of consumer accounts.

Include:
- Consumer in-person and remote debit card transactions
- Debit card cash-back transactions at the point of sale by consumer accountholders

Do not include:
- Debit card transactions made by business/government accountholders

Example: Tom used his debit card issued by your institution to buy a $40 pair of jeans. Later that day, he used his debit card at the ATM to withdraw $500. In this example, you would report one transaction for $40.
4.b From business/government accounts

These include all transactions made by business/government accountholders over any debit card network for which your institution was the issuer. Please see the General Terminology section above for the definition of business/government accounts.

Include:
- Business/government in-person and remote debit card transactions
- Debit card cash-back transactions at the point of sale by business/government accountholders

Do not include:
- Debit card transactions made by consumer accountholders

Example: Your corporate accountholder made a purchase of $500 with a corporate debit card issued by your institution. Later that day, he withdrew $200 in cash over the counter at one of your branch locations using the same debit card. In this example, you would report one transaction for $500.

5. Total debit card transactions (repeat item 4) = 5.a + 5.b

Repeat item 4 above. These include all cleared and settled, domestic and cross-border transactions over any debit card network for which your institution was the issuer. Include all POS or bill-pay transactions made by debit cards processed over either signature payment card networks or PIN payment card networks. If your answer is No to item 1 above, please report “0” here.

Quarter 1: Jan, Feb, Mar
Quarter 2: Apr, May, Jun
Quarter 3: Jul, Aug, Sep
Quarter 4: Oct, Nov, Dec

Include:
- Both consumer and business/government debit card transactions
- Both in-person and remote debit card transactions
- Debit card cash-back transactions at the point of sale

Do not include:
- Cash withdrawals over the counter
- ATM withdrawals
- Prepaid card transactions
- Credit card transactions

Example 1: Your customer bought $50 of groceries with her debit card by entering her PIN at the checkout line. Later that day, she used the same debit card issued by your institution to purchase a $70 purse online. In this example, you would report 2 transactions for $120.

Example 2: In quarter 1, your customer completed 2 transactions with her debit card for a total of $120 in January, 4 transactions with her debit card for a total of $120 in February, and 2 transactions with her debit card for a total of $100 in March. In this example, you would report 8 transactions for $340 in quarter 1. Repeat this calculation for quarters 2, 3, and 4 using the applicable months (outlined above). To calculate the total transactions for calendar year 2020, repeat this calculation with the total of all 12 months.

5.a In-person transactions

These include all debit card transactions for which the card user is physically present with the card at the point of sale.

Include:
- In-person transactions
- In-person mobile transactions (i.e., digital wallet transactions at the point of sale using near-field communication, magnetic secure transmission, QR codes, or barcode technology)
- In-person contactless card transactions (i.e., “tap and pay” physical cards, fobs, or stickers)
- In-person intermediated transactions (e.g., Square, Clover, Zettle)
- In-person card-not-present transactions (i.e., key-entered transactions)

Do not include:
- Remote transactions
- Digital wallet in-app or browser transactions

Example: Your customer bought a coat for $100 with his debit card by entering his PIN at the checkout line. Later that day, he bought a $40 train ticket with his debit card with his digital wallet (Apple Pay) at the checkout. For this example, you would report 2 transactions for $140.
5.b  **Remote transactions**

These include all debit card transactions for which the card user does not physically present the card to authorize the transaction, including mail-order transactions, telephone-order transactions, and internet transactions. Please report the total transactions with either a domestic or foreign payee.

**Include:**
- Remote debit card transactions (e.g., mail-order transactions, telephone-order transactions)
- Digital wallet in-app or browser debit card transactions (e.g., e-commerce transactions)

**Do not include:**
- In-person transactions
- In-person transactions (i.e., digital wallet transactions at the point of sale using near-field communication, magnetic secure transmission, QR codes, or barcode technology)
- In-person contactless card transactions (i.e., “tap and pay” physical cards, fobs, or stickers)
- In-person intermediated transactions (e.g., Square, Clover, Zettle)
- In-person card-not-present transactions (i.e., key-entered transactions)

**Example:** Your customer purchased a $500 item on a German internet website with his debit card by entering his debit card number, name, and address. He then proceeded to buy a $65 pair of shoes from a U.S.-based store in a mobile application not at the point of sale, paying with the same debit card with his digital wallet (Google Pay). In this example, you would report 2 transactions for $565.

6. **Third-party fraudulent debit card transactions = 6.a + 6.b**

These include all third-party unauthorized debit card transactions, before any recoveries or chargebacks, for which your institution was the card issuer. Please report any fraudulent third-party debit card transactions, regardless of whether the transaction resulted in a loss of funds. If your answer is **No** to item 1 above, please report “0” here.

**Include:**
- Debit card transactions that were not authorized by a valid card user (third-party fraud)

**Do not include:**
- Fraud prevented by declining a transaction
- Fraud committed by a valid card user (first-party fraud)
- Fraudulent credit card transactions
- Fraudulent prepaid card transactions
- Fraudulent ATM withdrawals
- Debit card transactions authorized by a valid card user as part of a scam

**Example 1:** Your accountholder’s debit card issued by your institution was stolen. The perpetrator used the card to make one purchase worth $1,000, which was authorized at the point of sale. The perpetrator attempted to make another purchase worth $500 the next day. Your accountholder had already alerted your institution to the previous fraudulent activity and a hold had been put on her account, so the perpetrator never received funds from the second attempt. In this example, you would report 1 transaction for $1,000.

**Example 2:** Your accountholder claimed that her debit card was stolen and used to purchase a $500 TV in an electronics store. An investigation by your institution determined that in fact your accountholder made this purchase on her card. Since this transaction is an example of first-party fraud (false claim of fraud), it should not be included in item 6 above.

6.a  **In-person transactions**

These include only third-party fraudulent debit card transactions for which the card user is physically present at the merchant location when card data are acquired. Include digital wallet (Apple Pay, Samsung Pay) transactions at the point of sale only. Please report the total transactions using aPIN and without a PIN.

**Include:**
- In-person fraudulent transactions

**Do not include:**
- Fraudulent remote debit card transactions (e.g., mail-order transactions, telephone-order transactions)
- Fraudulent digital wallet in-app or browser debit card transactions (e.g., e-commerce transactions)

**Example 1:** Your accountholder’s debit card was stolen. The perpetrator used the card to make two purchases totaling $1,000 online. He then bought lunch for $35 at a restaurant using the stolen card. In this example, you would report 1 transaction for $35.
Example 2: Your accountholder claimed that her debit card was stolen and used to purchase a $500 TV in an electronics store. An investigation by your institution determined that in fact your accountholder made this purchase on her card. Since this transaction is an example of first-party fraud (false claim of fraud), it should not be included in item 6.a above.

6.b Remote transactions
These include only third-party fraudulent debit card transactions for which the card user does not physically present the card to authorize the transaction. Please report any fraudulent third-party debit card transactions, regardless of whether the transaction resulted in a loss of funds. Please report the total transactions with either a domestic or foreign payee.

Include:
- Fraudulent remote debit card transactions (e.g., mail-order transactions, telephone-order transactions)
- Fraudulent digital wallet in-app or browser debit card transactions (e.g., e-commerce transactions)

Do not include:
- In-person fraudulent transactions
- Fraudulent in-person mobile transactions (i.e., digital wallet transactions at the point of sale using near-field communication, magnetic secure transmission, QR codes, or barcode technology)
- Fraudulent in-person contactless card transactions (i.e., “tap and pay” physical cards, fobs, or stickers)
- Fraudulent in-person intermediated transactions (e.g., Square, Clover, Zettle)
- Fraudulent in-person card-not-present (i.e., key-entered transactions)

Example 1: Your accountholder’s debit card was stolen. The perpetrator used the card to purchase a TV for $500 at a store by fraudulently signing the receipt. He then proceeded to use the stolen card to buy an item online for $250. Both transactions were authorized. In this example, you would report 1 transaction for $250.

Example 2: Your accountholder claimed that his debit card was stolen and used to purchase a $20 video game online. An investigation by your institution determined that in fact your accountholder made this purchase on his card. Since this transaction is an example of first-party fraud (false claim of fraud), it should not be included in item 6.b above.

7. Did your institution have contactless debit cards in circulation in 2020 for which your institution was the issuer?
Please see the General Terminology section above for the definition of contactless cards.

Include:
- Contactless debit cards (i.e., “tap and pay” physical cards, fobs, or stickers) associated with transaction deposit accounts reported in the Institution Profile section

Do not include:
- ATM-only cards, prepaid cards, credit cards, or EBT cards

7.a If your answer is “Yes” to item 7 above, are you able to exclude contactless card volumes in your answers to item 9 and its subsets below?

If your answer is Yes, in some cases, please explain in the comments box at the end of this section.
If your answer is No, please report the combined debit card contactless and digital wallet accounts (and associated transactions) for item 8 and its subsets (and item 9 and its subsets) below, and explain in the comments box at the end of this section.

8. Number of active debit card digital wallet accounts
(Average of monthly totals in 2020)
New active digital wallet accounts are accounts from which at least one value transaction via digital wallet was completed for the first time within a month.
All active digital wallet accounts are accounts from which at least one value transaction via digital wallet was completed within a month.
Please see the General Terminology section above for the definition of digital wallet. If your answer is No to item 1 above, please report “0” here.

Quarter 1: Jan, Feb, Mar
Quarter 2: Apr, May, Jun
Quarter 3: Jul, Aug, Sep
Quarter 4: Oct, Nov, Dec
► **Example:** Your institution had 100 digital wallet accounts in January from which at least one value transaction was completed. For 10 of these accounts, the accountholder completed a transaction via digital wallet for the first time. Your institution had 120 digital wallet accounts in February from which at least one value transaction was completed. For 35 of these accounts, the accountholder completed a transaction via digital wallet for the first time. Your institution had 170 digital wallet accounts in March from which at least one value transaction was completed. For 30 of these accounts, the accountholder completed a transaction via digital wallet for the first time. In this example, you would report 25 new active digital wallet accounts, and 130 active digital wallet accounts in quarter 1. Repeat this calculation for quarters 2, 3, and 4 using the applicable months (outlined above). To calculate the active users for calendar year 2020, repeat this calculation with the average of all 12 months.

9. **Total debit card digital wallet transactions = 9.a + 9.b**

These are all cleared and settled, domestic and cross-border debit card transactions made via a digital wallet, including tokenized digital wallet. If your answer is No to item 1 above, please report “0” here.

**Include:**

- Digital wallet debit card transactions made by using electronic devices, such as a smartphone, smart watch, or activity tracker, by “tapping” the device at the POS terminal (e.g., Apple Pay, Samsung Pay, Google Pay, Fitbit Pay, Masterpass)
- Tokenized digital wallet debit card transactions made by using customer’s payment credentials saved in a virtual account number. These credentials can be stored either on a smartphone or in the cloud. When making a purchase, a substitute account number and a transaction specific code ("token") are used to process payments. This can include purchasing items online with a computer or using a smartphone to make a purchase with a browser or in-app (e.g., Apple Pay, Google Pay, Masterpass, Visa Checkout, Amex Express Checkout)
- Digital wallet debit card NFC (near-field communication) transactions, MST (magnetic secure transmission) transactions, QR code transactions, barcode transactions, in-app transactions, or browser transactions

**Do not include:**

- Debit card-on-file e-commerce transactions (cardholder-initiated or merchant-initiated) (i.e., installment payment)
- Transactions made via contactless cards (i.e., “tap and pay”)  

► **Examples:** Your customer bought lunch for $15 with his debit card, which was loaded into his digital wallet (Apple Pay). He physically tapped his phone on the POS device to pay for lunch, using NFC technology. He then ordered a $30 dinner in a mobile application, paying with the same debit card via his digital wallet (Apple Pay). In this example, you would report 2 transactions for $40.

9.a **In-person transactions**

These include debit card transactions for which an electronic device, such as a smartphone, smart watch, or activity tracker, was “tapped” to pay at the POS terminal (e.g., Apple Pay, Samsung Pay, Google Pay, Fitbit Pay).

**Include:**

- In-person mobile transactions (i.e., digital wallet transactions at the point of sale using near-field communication, magnetic secure transmission, QR codes, or barcode technology)

**Do not include:**

- In-app transactions or browser transactions made with a digital wallet (e.g., Apple Pay, Google Pay, Samsung Pay)
- Tokenized digital wallet transactions made by using customer’s payment credentials saved in a virtual account (e.g., Apple Pay, Google Pay, Masterpass, Visa Checkout, Amex Express Checkout)

► **Example:** Your customer bought lunch for $15 with his debit card, which was loaded into his digital wallet (Apple Pay). He physically tapped his phone on the POS device to pay for lunch, using NFC technology. He then bought groceries for $100 with his debit card by tapping his card on the POS device. In this example, you would report one transaction for $15.

9.b **Remote transactions**

These include debit card in-app transactions or browser transactions made with a digital wallet. Browser transactions include both digital wallets (e.g., Apple Pay, Google Pay, Samsung Pay) and third-party tokenized digital wallets (e.g., PayPal, Amazon Pay, Square Restaurants, Visa Checkout, Masterpass).
Include:
▪ In-app transactions or browser transactions made with a digital wallet (e.g., Apple Pay, Google Pay, Samsung Pay)
▪ Tokenized digital wallet transactions made by using customer’s payment credentials saved in a virtual account (e.g., Apple Pay, Google Pay, Masterpass, Visa Checkout, Amex Express Checkout)

Do not include:
▪ In-person mobile transactions (i.e., digital wallet transactions at the point of sale using near-field communication, magnetic secure transmission, QR codes, or barcode technology)

► Example: Your customer purchased a $500 item on an internet website with his debit card by entering his debit card number, name, and address. He then bought a $65 pair of shoes in a mobile application, paying with the same debit card via his digital wallet (Google Pay). In this example, you would report 1 transaction for $65.

10. Total debit card cash-back transactions at point of sale
These include all cleared and settled, domestic and cross-border debit card transactions for which your institution was the card issuer and in which the accountholders received cash back at the point of sale. These include both signature-based cash-back and PIN-based cash-back transactions. For cash-back value, only include the amount of cash your card users received at the point of sale. If your answer is No to item 1 above, please report “0” here.

Include:
▪ Debit card cash-back transactions at the point of sale. For value, only include the amount of cash received at the point of sale

Do not include:
▪ Prepaid card cash-back transactions
▪ Credit card cash-advance transactions
▪ ATM withdrawals
▪ The amount paid for goods and services

► Example: Your customer used her debit card at the grocery store to purchase $50 of food. She entered her PIN to authorize the transaction and also requested $20 cash back. In this example, you would report 1 transaction for $20.
General-Purpose Prepaid Cards

**Note:** For brevity, we will refer to “non-prepaid debit card” as “debit card” and “prepaid debit card” as “prepaid card” in this glossary.

**GENERAL TERMINOLOGY**

**Your institution**

“Your institution” refers to the participating depository institution at its highest organizational level (i.e., holding company, if applicable), including all affiliates. Only report data associated with your institution’s U.S. domiciled accounts (i.e., those accounts located within the 50 U.S. states, D.C., or U.S. territories such as Guam, Puerto Rico, or U.S. Virgin Islands), including both domestic and cross-border transactions.

**Prepaid card transactions**

Prepaid card transactions is the portion of debit card transactions associated with prepaid debit card accounts (defined below) but not with transaction accounts reported in the Institution Profile section of this survey. Include all transactions made with network-branded prepaid “open-loop” prepaid cards. Most prepaid cards are capable of being processed through a dual-message network as well as one or more single-message networks. Includes cash-back transactions at the point of sale, but does not include cash withdrawals (typically from an automated teller machine (ATM) or over the counter at a bank branch). Transactions may originate, for example, at a physical point of sale, via telephone, or via the Internet. For this study, please follow these guidelines:

<table>
<thead>
<tr>
<th>Prepaid card transactions include...</th>
<th>Prepaid card transactions do not include...</th>
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<tbody>
<tr>
<td>▪ Transactions made with Visa, MasterCard, Discover, or American Express branded prepaid cards and cleared over dual-message networks</td>
<td>▪ Closed-loop prepaid card transactions</td>
</tr>
<tr>
<td>▪ Transactions made with prepaid cards and cleared over a general-purpose, single-message network. Transactions made in other countries with prepaid cards issued from U.S. domiciled accounts</td>
<td>▪ ATM withdrawals</td>
</tr>
<tr>
<td>▪ Open-loop general-purpose prepaid card transactions</td>
<td>▪ Debit card transactions</td>
</tr>
<tr>
<td>▪ Open-loop gift card transactions</td>
<td>▪ Credit card transactions</td>
</tr>
<tr>
<td>▪ Payroll card transactions by the cardholder</td>
<td>▪ Transfers by a corporate customer to fund its employees’ payroll card accounts</td>
</tr>
<tr>
<td>▪ FSA/HSA prepaid cards</td>
<td>▪ Electronic benefits transfer (EBT) card transactions made using a proprietary network (e.g., Quest network) for that purpose</td>
</tr>
<tr>
<td>▪ Customer refund and incentive prepaid cards</td>
<td></td>
</tr>
<tr>
<td>▪ Prepaid card cash-back transactions at the point of sale</td>
<td></td>
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</tbody>
</table>

**Digital Wallet**

All purchase and bill-pay transactions made using a digital wallet in which users can complete purchases using near-field communication (NFC) that works in conjunction with mobile payment systems, MST (magnetic secure transmission) transactions, QR code transactions, barcode transactions, in-app transactions, or browser transactions. Digital wallets can be used during In-person transactions or Remote transactions. In-person transactions require the payment holder to be present to use their digital wallet, while remote transactions are used during e-commerce sales in which the authorization and transaction processes are not physically close to each other.

Digital wallet transactions include those made by using electronic devices, such as a smartphone, smart watch, or activity tracker, by “tapping” the device at the POS terminal (e.g., Apple Pay, Samsung Pay, Google Pay, Fitbit Pay, Masterpass).
They also include tokenized digital wallet transactions made by using customers’ payment credentials saved in a virtual account number. These credentials can be stored either on a smartphone or in the cloud. When making a purchase, a substitute account number and a transaction specific code (“token”) are used to process payments. This can include purchasing items online with a computer or using a smartphone to make a purchase with a browser or in-app (e.g., Apple Pay, Google Pay, Masterpass, Visa Checkout, Amex Express Checkout).

**General-purpose prepaid cards**

These network-branded cards are typically, but not necessarily, consumer-funded and can be used at the point of sale, for bill-pay transactions, or to withdraw cash from an ATM. These cards are often marketed to underbanked consumers as a checking account alternative.

**Virtual Card**

Virtual cards are used for online or over the phone purchases and do not require the accountholder to have a physical card. Virtual cards may provide greater security than a physical card because they use a unique card number, expiration date, and security code that is only valid at specific merchants or for a specific amount of time.

**Contactless Card**

A contactless card payment is a secure method for customers to purchase products or services via prepaid smartcards (also known as chip cards) using RFID technology. To make a contactless payment, the user simply tap his or her prepaid card near a POS terminal (an action sometimes referred to as “tap-and-go” or “tap-and-pay”).

**Account type definitions**

**Consumer account**

A prepaid account for personal use by an individual or household from which payments can be made or to withdraw cash from an ATM.

**Business/government account**

A prepaid account owned by an organization (i.e., business, government, non-depository financial institutions, or not-for-profit organization) from which payments can be made or to withdraw cash from an ATM.

**Note:** Please report small business accounts under business/government accounts, if possible.

**Open-loop prepaid cards**

Network branded general-purpose prepaid cards (i.e., Visa, MasterCard, American Express, and Discover) which can be used at any point of sale or for bill-pay transactions were the network is accepted. Unlike a debit card, a prepaid card is not linked to a bank account.

**Note:** If your institution reports on behalf of an EFT network, please include only prepaid card transactions that carry your network brand. Do not include reciprocal or gateway transactions that are not routed on your brand.

Any fees charged to the cards (e.g., monthly transaction fees) are not considered to be transactions and should be excluded.

**Closed-loop prepaid cards**

Closed-loop prepaid cards are excluded from this survey. Include only transactions with open-loop prepaid cards in this survey.

Closed-loop prepaid cards can only be used at certain merchant(s); these are non-network prepaid cards. Closed-loop prepaid cards are also referred as “store cards” (e.g., Old Navy gift card, Home Depot gift card) and operate between the merchant and the issuer without the use of a network.

**Reloadable prepaid cards**

Open-loop or closed-loop prepaid card to which funds can be added at a later time after the initial purchase of the card.

**Note:** Any fees charged to the cards (e.g., monthly fees, dormancy fees) are not considered to be transactions and should be excluded.
**Gift cards**
Prepaid cards that are marketed as gift-giving alternatives to cash, checks, and gift certificates or as loyalty cards with payment capabilities. Include non-reloadable network-branded general-purpose open-loop prepaid cards in reported totals. Do not include closed-loop prepaid cards that are typically merchant or shopping center branded.

**Payroll cards**
Reloadable, prepaid “ATM” cards issued to disburse employee wages; typically marketed as a means to replace paper check or cash wages to unbanked employees.

**Flexible Spending Account (FSA) and Health Savings Account (HSA) medical cards**
Reloadable, network-branded prepaid medical cards used for health care costs referred to as “qualified expenses,” including deductibles, copayments and coinsurance, and monthly prescription transactions. HSA contributions are tax-deductible but can also be taken out of pretax pay. FSA contributions are pretax, and distributions are untaxed. Both medical cards are typically used to save money on medical expenses.

**Third-party fraud**
The Federal Reserve Payments Study has identified a measure of fraud that can be described as cleared and settled third-party fraudulent transactions. This measure is not a loss-of-funds measure, nor is it a measure of fraud attempts; rather, it is a measure of the extent to which third parties who are not authorized to conduct transactions are able to penetrate the payment system and affect settlement between banks, or create a book transfer of funds if the transaction happens within one institution. The definition includes third-party fraud with all types of outcomes that may or may not include a loss to various entities, but constitutes a fraud attempt that manages to create a funds transfer, if only temporary. The definition is depicted below within the hierarchy of fraud attempts visible to your institution. The definition of fraud in this study is highlighted in yellow to show that cleared and settled third-party fraud includes at least six different categories of fraud outcomes.

**SURVEY ITEMS**

1. **Did your institution offer its customers general-purpose prepaid cards issued by another financial institution during calendar year 2020?**
   General-purpose prepaid cards include but are not limited to: payroll prepaid cards, open-loop gift cards, government-administered open-loop prepaid cards, FSA/HSA medical cards, and open-loop customer refund and incentive cards. If your answer to this question is Yes, please do not include these cards (or associated transactions) in your answers below.
2. **Did your institution have general-purpose prepaid cards in circulation in 2020 for which your institution was the issuer?**

Cards issued for prepaid card programs managed by your institution or managed by a third-party for which your institution was the issuer and that route transactions over a debit card network. If your answer to this question is **No**, please report “0” for the remainder of this section and skip question 2.a.

**Include:**
- Consumer and business/government general-purpose open-loop reloadable prepaid cards
- Consumer and business/government general-purpose open-loop non-reloadable prepaid cards
- Open-loop gift cards
- Payroll prepaid cards
- FSA/HSA medical cards
- Government-administered general-purpose open-loop prepaid cards
- Open-loop customer refund and incentive cards

**Do not include:**
- Closed-loop prepaid cards (i.e., prepaid cards that do not route transactions over a debit card network)
- Debit cards
- ATM or ATM-only cards
- Electronic benefits transfer (EBT) cards
- Credit cards

**2.a If your answer is “Yes” to item 2 above, are you able to include business/government prepaid card volumes in your answers below?**

If your answer is **Yes, in some cases**, please explain in the comments box at the end of this section. Even if your answer is “No”, please report your data for all items below and explain in the comment box at the end of this section.

3. **Did your institution have virtual general-purpose prepaid cards in circulation in 2020 for which your institution was the issuer?**

Please see the General Terminology section above for the definition of virtual cards. If your answer is **Yes**, please include the number of virtual general-purpose prepaid card transactions and accounts for all items below, but do not include virtual cards in the number of physical cards in item 5 below.

**Include:**
- Virtual consumer and business/government general-purpose open-loop reloadable prepaid cards
- Virtual consumer and business/government general-purpose open-loop non-reloadable prepaid cards

**Do not include:**
- Closed-loop prepaid cards (i.e., prepaid cards that don't route transactions over a debit card network)
- Debit cards
- ATM or ATM-only cards
- Electronic benefits transfer (EBT) cards
- Credit cards

4. **Total general-purpose prepaid card program accounts**

These are accounts for both reloadable and non-reloadable open-loop prepaid cards for which your institution was the issuer. Your customer may or may not be able to add additional funds to this card after it has been issued and use these funds to shop, transfer money, or pay bills. If your answer is **No** to item 2 above, please report “0” here.

Average of monthly totals means the average of end-of-month totals for each of the months in 2020.

**Include:**
- General-purpose prepaid card programs managed by both your institution and a third-party
- Consumer and business/government general-purpose open-loop reloadable prepaid card accounts
- Consumer and business/government general-purpose open-loop non-reloadable prepaid card accounts
- Open-loop gift card accounts
- Payroll prepaid card accounts
- FSA/HSA medical card accounts
- Government-administered general-purpose open-loop prepaid card accounts
- Customer refund and incentive card accounts
- Consumer and business/government virtual general-purpose prepaid card program accounts
Do not include:
- Closed-loop prepaid card program accounts (i.e., prepaid cards that don't route transactions over a debit card network)
- Debit card accounts
- ATM or ATM-only card accounts
- Electronic benefits transfer (EBT) card accounts
- Credit card accounts

Example: John has an open-loop prepaid card issued by your institution that he reloads every month for his grocery shopping. His prepaid card account contains an additional prepaid card used by his spouse. In this example, you would report one general-purpose prepaid card account with its respective average end-of-month balance.

5. **Number of physical general-purpose prepaid cards**

These are all general-purpose open-loop prepaid cards that can be used at the point of sale that were issued by your institution, drawn on prepaid card program accounts listed in item 4 above, and in force at the end of the month. Please report average monthly totals for both reloadable and non-reloadable prepaid cards for which your institution was the issuer. If your answer is No to item 2 above, please report "0" here.

For cards in force, report only physical general-purpose open-loop prepaid cards that had been issued by your institution, activated by your institution’s accountholders, and had not expired at the end of a month.

Average of monthly totals means the average of end-of-month totals for each of the months in 2020.

Include:
- Consumer and business/government general-purpose open-loop reloadable prepaid cards
- Consumer and business/government general-purpose open-loop non-reloadable prepaid cards
- Payroll prepaid cards
- Government-administered general-purpose open-loop prepaid cards
- Open-loop gift cards
- FSA/HSA medical cards
- Customer refund and incentive cards

Do not include:
- Closed-loop prepaid cards (i.e., prepaid cards that don't route transactions over a debit card network)
- Debit cards
- ATM or ATM-only cards
- Electronic benefits transfer (EBT) cards
- Credit cards
- Virtual prepaid cards

Example: Your institution has 500 consumer and business general-purpose open-loop prepaid accounts, with 600 prepaid cards issued at the end of January that are related to these accounts. Of these prepaid cards, 450 cards have been activated and are not expired, 130 cards have not been activated yet, and 20 cards have been activated but are now expired. In this example, you would report 450 prepaid cards in force for January. Repeat this calculation for every month and then average the total across 12 months.

6. **Total general-purpose prepaid card transactions = 6.a + 6.b**

These include all cleared and settled, domestic and cross-border transactions over any prepaid card network for which your institution was the issuer. Include all POS or bill-pay transactions made by prepaid cards processed over either signature payment card networks or PIN payment card networks. If your answer is No to item 2 above, please report "0" here.

Quarter 1: Jan, Feb, Mar
Quarter 2: Apr, May, Jun
Quarter 3: Jul, Aug, Sep
Quarter 4: Oct, Nov, Dec

Include:
- Both consumer and business/government general-purpose open-loop prepaid card transactions
- Payroll prepaid card transactions
- Government-administered general-purpose open-loop prepaid card transactions
- Open-loop gift card transactions
- FSA/HSA medical card transactions
- Customer refund and incentive card transactions
- Cash-back transactions at the point of sale (i.e., amount of cash received at the point of sale)
Do not include:
- Closed-loop prepaid card transactions (i.e., prepaid cards that don’t route transactions over a debit card network)
- ATM withdrawals
- Debit card transactions
- Credit card transactions

► Example 1: Your customer bought $30 of groceries and received $20 cash back with her prepaid card by entering her PIN at the checkout line, for a transaction total of $50. Later that day, she used the same prepaid card issued by your institution to purchase a $70 jacket at a department store. In this example, you would report 2 transactions for $120.

► Example 2: In quarter 1, your customer completed 2 transactions with her prepaid card for a total of $120 in January, 4 transactions with her prepaid card for a total of $120 in February, and 2 transactions with her prepaid card for a total of $100 in March. In this example, you would report 8 transactions for $340 in quarter 1. Repeat this calculation for quarters 2, 3, and 4 using the applicable months (outlined above). To calculate the total transactions for calendar year 2020, repeat this calculation with the total of all 12 months.

6.a In-person transactions
These include all general-purpose prepaid card transactions for which the card user is physically present with the card at the point of sale. Include digital wallet (e.g., Apple Pay, Google Pay, Samsung Pay) transactions at the point of sale only. Please report the total transactions using PIN authentication and without PIN.

Include:
- In-person transactions
- In-person mobile transactions (i.e., digital wallet transactions at the point of sale using near-field communication, magnetic secure transmission, QR codes, or barcode technology)
- In-person contactless card transactions (i.e., “tap and pay” physical cards, fobs, or stickers)
- In-person intermediated transactions (e.g., Square, Clover, Zettle)
- In-person card-not-present transactions (i.e., key-entered transactions)

Do not include:
- Remote transactions
- Digital wallet in-app or browser transactions

► Example: Your customer bought a coat for $100 with his prepaid card by entering his PIN at the checkout line. Later that day, he bought a $40 train ticket with his prepaid card with his digital wallet (Apple Pay) at the checkout. For this example, you would report 2 transactions for $140.

6.b Remote transactions
These include all general-purpose prepaid card transactions for which the card user does not physically present the card to authorize the transaction, including mail-order transactions, telephone-order transactions, and internet transactions. Please report the total transactions with either a domestic or foreign payee.

Include:
- Remote prepaid card transactions (e.g., mail-order transactions, telephone-order transactions)
- Digital wallet in-app or browser prepaid card transactions (e.g., e-commerce transactions)

Do not include:
- In-person transactions
- In-person mobile transactions (i.e., digital wallet transactions at the point of sale using near-field communication, magnetic secure transmission, QR codes, or barcode technology)
- In-person contactless card transactions (i.e., “tap and pay” physical cards, fobs, or stickers)
- In-person intermediated transactions (e.g., Square, Clover, Zettle)
- In-person card-not-present transactions (i.e., key-entered transactions)

► Example: Your prepaid cardholder purchased a $500 item on a German internet website with his prepaid card by entering his prepaid card number, name, and address. He then proceeded to buy a $65 pair of shoes from a U.S.-based store in a mobile application not at the point of sale, paying with the same prepaid card with his digital wallet (Google Pay). In this example, you would report 2 transactions for $565.
7. **Third-party fraudulent general-purpose prepaid card transactions = 7.a + 7.b**

These include all third-party unauthorized prepaid card transactions, before any recoveries or chargebacks, for which your institution was the card issuer. Please report any fraudulent third-party prepaid card transactions, regardless of whether the transaction resulted in a loss of funds. If your answer is No to item 2 above, please report “0” here.

**Include:**
- Prepaid card transactions that were not authorized by a valid card user (third-party fraud)

**Do not include:**
- Fraud prevented by declining a transaction
- Fraud committed by a valid card user (first-party fraud)
- Fraudulent credit card transactions
- Fraudulent debit card transactions
- Fraudulent ATM withdrawals
- Prepaid card transactions authorized by a valid card user as part of a scam

▶ **Example 1:** Your account holder’s prepaid card issued by your institution was stolen. The perpetrator used the card to make one purchase worth $50. The perpetrator attempted to make another purchase worth $75 the next day. Your account holder had already alerted your institution to the previous fraudulent activity and a hold had been put on her account, so the perpetrator never received funds from the second attempt. In this example, you would report 2 transaction for $50.

▶ **Example 2:** Your account holder claimed that her prepaid card was stolen and used to purchase a $200 TV in an electronics store. An investigation by your institution determined that in fact your account holder made this purchase on her card. Since this transaction is an example of first-party fraud (false claim of fraud), it should not be included in item 7 above.

7.a **In-person transactions**

These include only third-party fraudulent general-purpose prepaid card transactions for which the card user is physically present with the card at the point of sale. Include digital wallet (e.g., Apple Pay, Google Pay, Samsung Pay) transactions at the point of sale only. Include all third-party unauthorized prepaid card transactions, before any recoveries or chargebacks. Please report any fraudulent third-party prepaid card transactions, regardless of whether the transaction resulted in a loss of funds. Please report the total transactions with PIN authentication and without PIN authentication.

**Include:**
- In-person fraudulent transactions
- Fraudulent in-person contactless prepaid card transactions (i.e., “tap and pay” with a prepaid card)
- Fraudulent in-person mobile transactions (i.e., digital wallet transactions at the point of sale using near-field communication, magnetic secure transmission, QR codes, or barcode technology)
- Fraudulent in-person intermediated transactions (e.g., Square, Clover, Zettle)
- Fraudulent in-person card-not-present transactions (i.e., key-entered transactions)

**Do not include:**
- Fraudulent remote prepaid card transactions (e.g., mail-order transactions, telephone-order transactions)
- Fraudulent digital wallet in-app or browser prepaid card transactions (e.g., e-commerce transactions)

▶ **Example 1:** Your account holder’s prepaid card was stolen. The perpetrator used the card to make two online purchases totaling $100 over the internet. He then bought lunch for $35 at a restaurant using the stolen card. In this example, you would report 1 transaction for $35.

▶ **Example 2:** Your account holder registered her prepaid card online and later claimed that her prepaid card was stolen and used to purchase a $500 TV in an electronics store. An investigation by your institution determined that in fact your account holder made this purchase on her card. Since this transaction is an example of first-party fraud (false claim of fraud), it should not be included in item 7.a above.
7.b Remote transactions
These include only third-party fraudulent general-purpose prepaid card transactions for which the card user does not physically present the card to authorize the transaction, including mail-order transactions, telephone-order transactions, and internet transactions. Include all third-party unauthorized prepaid card transactions, before any recoveries or chargebacks. Please report any fraudulent third-party prepaid card transactions, regardless of whether the transaction resulted in a loss of funds. Please report the total transactions with either a domestic or foreign payee.

Include:
- Fraudulent remote prepaid card transactions (e.g., mail-order transactions, telephone-order transactions)
- Fraudulent digital wallet in-app or browser prepaid card transactions (e.g., e-commerce transactions)

Do not include:
- In-person fraudulent transactions
- Fraudulent in-person contactless prepaid card transactions (i.e., “tap and pay” with a prepaid card)
- Fraudulent in-person mobile transactions (i.e., digital wallet transactions at the point of sale using near-field communication, magnetic secure transmission, QR codes, or barcode technology)
- Fraudulent in-person intermediated transactions (e.g., Square, Clover, Zettle)
- Fraudulent in-person card-not-present transactions (i.e., key-entered transactions)

► Example 1: Your accountholder’s prepaid card was stolen. The perpetrator used the card to purchase a TV for $500 at a store by fraudulently signing the receipt. He then proceeded to use the stolen card to buy an item online for $250. In this example, you would report 1 transaction for $250.

► Example 2: Your accountholder claimed that his prepaid card was stolen and used to purchase a $20 video game online. An investigation by your institution determined that in fact your accountholder made this purchase on his card. Since this transaction is an example of first-party fraud (false claim of fraud), it should not be included in item 7.b above.

8. Did your institution have contactless general-purpose prepaid cards in circulation in 2020 for which your institution was the issuer?
Please see the General Terminology section above for the definition of contactless cards.

Include:
- Contactless prepaid cards (i.e., “tap and pay” physical cards, fobs, or stickers)
- Contactless consumer and business/government general-purpose open-loop reloadable prepaid cards
- Contactless consumer and business/government general-purpose open-loop non-reloadable prepaid cards
- Contactless open-loop gift cards
- Contactless payroll prepaid cards
- Contactless FSA/HSA medical cards
- Contactless government-administered general-purpose open-loop prepaid cards
- Contactless open-loop customer refund and incentive cards

Do not include:
- Closed-loop prepaid cards (i.e., prepaid cards that don’t route transactions over a debit card network)
- Debit cards
- ATM or ATM-only cards
- Electronic benefits transfer (EBT) cards
- Credit cards

8.a If your answer is “Yes” to item 8 above, are you able to exclude contactless card volumes in your answers to item 10 and its subsets below?
If your answer is Yes, in some cases, please explain in the comments box at the end of this section.
If your answer is No, please report the combined general-purpose prepaid card contactless and digital wallet accounts (and associated transactions) for item 9 and its subsets (and item 10 and its subsets) below, and explain in the comments box at the end of this section.
9. **Number of active general-purpose prepaid card digital wallet accounts**
(Average of monthly totals in 2020)

**New active digital wallet accounts** are accounts from which at least one value transaction via digital wallet was completed for the first time within a month.

**All active digital wallet accounts** are accounts from which at least one value transaction via digital wallet was completed within a month.

Please see the **General Terminology** section above for the definition of digital wallet. If your answer is **No** to item 2 above, please report “0” here.

**Quarter 1**: Jan, Feb, Mar
**Quarter 2**: Apr, May, Jun
**Quarter 3**: Jul, Aug, Sep
**Quarter 4**: Oct, Nov, Dec

► **Example**: Your institution had 100 digital wallet accounts in January from which at least one value transaction was completed. For 10 of these accounts, the accountholder completed a transaction via digital wallet for the first time. Your institution had 120 digital wallet accounts in February from which at least one value transaction was completed. For 35 of these accounts, the accountholder completed a transaction via digital wallet for the first time. Your institution had 170 digital wallet accounts in March from which at least one value transaction was completed. For 30 of these accounts, the accountholder completed a transaction via digital wallet for the first time. In this example, you would report 25 new active digital wallet accounts, and 130 active digital wallet accounts in quarter 1. Repeat this calculation for quarters 2, 3, and 4 using the applicable months (outlined above). To calculate the active users for calendar year 2020, repeat this calculation with the average of all 12 months.

10. **General-purpose prepaid card digital wallet transactions = 10.a + 10.b**
Report all cleared and settled, domestic and cross-border general-purpose prepaid card transactions made via a digital wallet, including tokenized digital wallet. If your answer is **No** to item 2 above, please report “0” here.

**Include:**
- Digital wallet transactions made by using electronic devices, such as a smartphone, smart watch, or activity tracker, by “tapping” the device at the POS terminal (e.g., Apple Pay, Samsung Pay, Google Pay, Fitbit Pay, Masterpass).
- Tokenized digital wallet transaction’ made by using customer’s payment credentials saved in a virtual account number. These credentials can be stored either on a smartphone or in the cloud. When making a purchase, a substitute account number and a transaction specific code ("token") are used to process payments. This can include purchasing items online with a computer or using a smartphone to make a purchase with a browser in-app (e.g., Apple Pay, Google Pay, Masterpass, Visa Checkout, Amex Express Checkout).
- Digital wallet NFC (near-field communication) transactions, MST (magnetic secure transmission) transactions, QR code transactions, barcode transactions, in-app transactions, or browser transactions.

**Do not include:**
- Card-on-file e-commerce transactions (cardholder-initiated or merchant-initiated) (i.e., installment payment).
- Transactions made via contactless cards (i.e., "tap and pay")

► **Example**: Your customer bought a movie ticket for $10 with his prepaid card, which was loaded into his digital wallet (Apple Pay). He physically tapped his phone on the POS device to pay for the movie ticket, using NFC technology. He then ordered a $30 dinner in a mobile application, paying with the same prepaid card via his digital wallet (Apple Pay). In this example, you would report 2 transactions for $40.

**10.a In-person transactions**
Include transactions for which an electronic device, such as a smartphone, smart watch, or activity tracker, was “tapped” to pay at the POS terminal (e.g., Apple Pay, Samsung Pay, Google Pay, Fitbit Pay).

**Include:**
- In-person mobile transactions (i.e., digital wallet transactions at the point of sale using near-field communication, magnetic secure transmission, QR codes, or barcode technology).
Do not include:
- In-app transactions or browser transactions made with a digital wallet (e.g., Apple Pay, Google Pay, Samsung Pay)
- Tokenized digital wallet transaction made by using customer's payment credentials saved in a virtual account (e.g., Apple Pay, Google Pay, Masterpass, Visa Checkout, Amex Express Checkout)

► Example: Your customer bought lunch for $15 with his prepaid card, which was loaded into his digital wallet (Apple Pay). He physically tapped his phone on the POS device to pay for lunch, using NFC technology. He then bought groceries for $100 with his prepaid card by tapping his card on the POS device. In this example, you would report 1 transaction for $15.

10.b Remote transactions

Include in-app transactions or browser transactions made with a digital wallet. Browser transactions include both digital wallets (e.g., Apple Pay, Google Pay, Samsung Pay) and third-party tokenized digital wallets (e.g., PayPal, Amazon Pay, Square Restaurants, Visa Checkout, Masterpass).

Include:
- In-app transactions or browser transactions made with a digital wallet (e.g., Apple Pay, Google Pay, Samsung Pay)
- Tokenized digital wallet transaction made by using customer's payment credentials saved in a virtual account (e.g., Apple Pay, Google Pay, Masterpass, Visa Checkout, Amex Express Checkout)

Do not include:
- In-person mobile transactions (i.e., digital wallet transactions at the point of sale using near-field communication, magnetic secure transmission, QR codes, or barcode technology)

► Example: Your customer purchased a $500 item on an internet website with his prepaid card by entering his prepaid card number, name, and address. He then bought a $65 pair of shoes in a mobile application, paying with the same prepaid card with his digital wallet (Google Pay). In this example, you would report 1 transaction for $65.

11. General-purpose prepaid card cash-back transactions

These include all cleared and settled, domestic and cross-border prepaid card transactions for which your institution was the card issuer and in which the account holders received cash back at the point of sale. These include both signature-based cash-back and PIN-based cash-back transactions. For cash-back value, only include the amount of cash your card users received at the point of sale. If your answer is No to item 2 above, please report “0” here.

Include:
- Prepaid card cash-back transactions at the point of sale. For value, only include the amount of cash received at the point of sale

Do not include:
- ATM withdrawals
- Credit card transactions
- Debit card transactions
- The amount paid for goods and services

► Example: Your customer used her prepaid card at the grocery store to purchase $50 of food. She entered her PIN to authorize the transaction and also requested $20 cash back. In this example, you would report 1 transaction for $20.
General-Purpose Credit Cards

Note: For brevity, we will refer to "non-prepaid debit card" as "debit card" and "prepaid debit card" as "prepaid card" in this glossary.

GENERAL TERMINOLOGY

Your institution
“Your institution” refers to the participating depository institution at its highest organizational level (i.e., holding company, if applicable), including all affiliates. Only report data associated with your institution's U.S. domiciled accounts (i.e., those accounts located within the 50 U.S. states, D.C., or U.S. territories such as Guam, Puerto Rico, or U.S. Virgin Islands), including both domestic and cross-border transactions.

Credit card network transactions
All transactions over any credit card network made with general-purpose credit cards, charge cards or co-branded credit cards issued by your institution, meaning that your institution owns the receivables. Include all purchase and bill-pay transactions made with credit cards used for point-of-sale (POS) transactions. Transactions may originate, for example, at a physical point of sale, via telephone, or via the internet. For this study, please follow these guidelines:

<table>
<thead>
<tr>
<th>Credit card network transactions include...</th>
<th>Credit card network transactions do not include...</th>
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<tbody>
<tr>
<td>• Network transactions made with Visa, MasterCard, Discover, or American Express branded credit cards. These include secured and unsecured credit cards.</td>
<td>• Debit card transactions</td>
</tr>
<tr>
<td>• Network transactions originated in other countries with credit cards issued from U.S. domiciled accounts</td>
<td>• Prepaid card transactions</td>
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<td></td>
<td>• Convenience checks</td>
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<td></td>
<td>• Balance transfers</td>
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<tr>
<td></td>
<td>• Cash advances</td>
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<tr>
<td></td>
<td>• Co-branded card non-network (“internal” or closed-loop) transactions</td>
</tr>
</tbody>
</table>

Digital Wallet
All purchase and bill-pay transactions made using a digital wallet in which users can complete purchases using near-field communication (NFC) that works in conjunction with mobile payment systems, MST (magnetic secure transmission) transactions, QR code transactions, barcode transactions, in-app transactions, or browser transactions. Digital wallets can be used during in-person transactions or remote transactions. In-person transactions require the payment holder to be present to use their digital wallet, while remote transactions are used during e-commerce sales in which the authorization and transaction processes are not physically close to each other.

Digital wallet transactions include those made by using electronic devices, such as a smartphone, smart watch, or activity tracker, by “tapping” the device at the POS terminal (e.g., Apple Pay, Samsung Pay, Google Pay, Fitbit Pay, Masterpass).

They also include tokenized digital wallet transaction’ made by using customer's payment credentials saved in a virtual account number. These credentials can be stored either on a smartphone or in the cloud. When making a purchase, a substitute account number and a transaction specific code (“token”) are used to process payments. This can include purchasing items online with a computer or using a smartphone to make a purchase with a browser or in-app (e.g., Apple Pay, Google Pay, Masterpass, Visa Checkout, Amex Express Checkout).

Virtual Card
Virtual cards are used for online or over the phone purchases and do not require the accountholder to have a physical card. Virtual cards may provide greater security than a physical card because they use a unique card number, expiration date, and security code that is only valid at specific merchants or for a specific amount of time.

Contactless Card
Contactless card payment is a secure method for consumers to purchase products or services via credit smartcards (also known as chip cards) using RFID technology. To make a contactless payment, the user simply taps his or her credit card near a POS terminal (an action sometimes referred to as “tap-and-go” or “tap-and-pay”).
**Co-branded credit card**
Co-branded credit cards are retail merchant credit cards that are issued in partnership with a specific network processor (i.e., Visa, MasterCard, American Express, and Discover). Co-branded cards are branded with the logo of the retailer and network processor. Users can earn discounts or rewards points when they make purchases with sponsoring merchants.

**Account type definitions**

**Consumer account**
A credit card account for personal use by an individual or household from which payments can be made.

**Business/government account**
A credit account owned by an organization (i.e., business, government, non-depository financial institution, or not-for-profit organization) from which payments can be made.

**Note:** Please report small business accounts under business/government accounts, if possible.

**Cash advances**
A service provided by credit card and charge card issuers that allows cardholders to withdraw cash—either through an ATM or over the counter at a bank or other financial agency—up to a prescribed limit.

**Note:** Do not report cash advance transactions in this section of the survey.

**Convenience checks**
A check linked to a cardholder’s credit line that can be used to make purchases, pay bills or transfer balances from one credit account to another.

**Note:** Do not include convenience check transactions in this section of the survey.

**Balance transfers**
The transfer by a credit card accountholder of an outstanding debt balance from one credit card account to another.

**Note:** Do not include balance transfers in this section of the survey.

**Third-party fraud**
The Federal Reserve Payments Study has identified a measure of fraud that can be described as cleared and settled third-party fraudulent transactions. The measure is not a loss-of-funds measure, nor is it a measure of fraud attempts; rather, it is a measure of the extent to which third parties who are not authorized to conduct transactions are able to penetrate the payment system and affect settlement between banks, or create a book transfer of funds if the transaction happens within one institution. The definition includes third-party fraud with all types of outcomes that may or may not include a loss to various entities, but constitutes a fraud attempt that manages to create a funds transfer, if only temporary. The definition is depicted below within the hierarchy of fraud attempts visible to your institution. The definition of fraud in this study is highlighted in yellow to show that cleared and settled third-party fraud includes at least six different categories of fraud outcomes.
SURVEY ITEMS

1. Did your institution have general-purpose credit cards in circulation in 2020 for which your institution was the issuer?
   These include general-purpose credit cards, charge cards, and co-branded cards for which your institution owns the receivables and that use any one of the four major credit card networks (i.e., Visa, MasterCard, American Express, and Discover). If your answer to this question is No, please report “0” for all items below.

2. Did your institution have co-branded credit cards in circulation in 2020 for which your institution was the issuer?
   These are retail merchant credit cards that are issued in partnership with a specific network processor (i.e., Visa, MasterCard, American Express, and Discover). Co-branded cards are branded with the logo of the retailer and network processor. Users can earn discounts or rewards points when they make purchases with sponsoring merchants.
   If your answer is Yes, please exclude “internal” (closed-loop, not using one of the above four major credit card networks) volumes from items 8, 9, 10, and 13 and their subsets and report “internal” volumes in item 7.
   Please include “external” (open-loop, using one of the above four major credit card networks) volumes in your answers to items 8, 9, 10, and 13 and their subsets below.
   If your answer is No, please report “0” for item 7 below.

2.a If your institution had “internal” (closed-loop, not using one of the above four major credit card networks) co-branded credit card transactions, are you able to exclude these volumes from your answers to items 8, 9, 10, and 13 and their subsets below?
   If your answer is Yes, in some cases, please explain in the comments box at the end of this section.
   Even if your answer is “No”, please report data for items 8, 9, 10, and 13 and their subsets below and explain in the comment box at the end of this section.

3. Did your institution have virtual general-purpose credit cards in circulation in 2020 for which your institution was the issuer?
   Please see the General Terminology section above for the definition of virtual cards. If your answer is Yes, please include the number of virtual general-purpose credit card transactions and accounts for all items below, but do not include virtual cards in the number of physical cards in item 6 and its subsets below.

4. Total general-purpose credit card accounts = 4.a + 4.b
   These include general-purpose credit card accounts for which your institution was the issuer. Please report account totals, not cards (e.g., if a customer and their spouse both have a card under the same account, please report as one account). If your answer is No to item 1 above, please report “0” here.
   Average of monthly totals means the average of end-of-month totals for each of the months in 2020.
   Include:
   ▪ All general-purpose credit card accounts, including zero-balance active accounts, with a credit line and the ability to transact
   ▪ Virtual general-purpose credit card accounts
   Do not include:
   ▪ Private-label credit or charge card accounts whose cards can only be used at a limited set of merchants and that do not use one of the four major credit card networks
   ▪ White-label card accounts for which your institution was not the issuing institution
   ▪ Debit or prepaid card accounts
   ▪ Transaction deposit accounts
   ▪ Closed accounts
   ▶ Example: Tom, your consumer customer, has one credit card issued by your institution. Joe’s Diner, your corporate customer, has a corporate credit card account with separate cards for each of their ten employees. In this example, you would report 2 credit card accounts.
4.a Consumer accounts
These include all credit card accounts that are for consumer accountholders. Please see the General Terminology section above for the definition of consumer accounts.

Include:
- All credit card accounts for consumer accountholders with credit card accounts for which your institution was the issuer

Do not include:
- Business/government credit card accounts

► Example: Tom used his credit card issued by your institution to buy a $40 pair of jeans. His wife then used another card linked to the same account to buy $15 worth of candy. In this example, you would report 1 consumer credit card account.

4.b Business/government accounts
These include all credit cards accounts that are for business/government accountholders. Please see the General Terminology section above for the definition of business/government accounts.

Include:
- All credit card accounts for business/government accountholders with credit card accounts for which your institution was the issuer

Do not include:
- Consumer credit card accounts

► Example: Your corporate accountholder made a purchase of $500 with a corporate credit card issued by your institution. An employee of the same institution then used her own credit card linked to the same account to make a purchase of $100. In this example, you would report 1 business/government credit card account.

5. Consumer general-purpose credit card accounts (repeat item 4.a) = 5.a + 5.b + 5.c + 5.d
Please repeat item 4.a above. These include general-purpose credit cards for which your institution was the issuer. If your answer is No to item 1 above, please report “0” here. If you are unable to report items 5.a, 5.d, 5.d.1, and 5.d.2 below, please explain in the comments field. In this case, report “NR” for those items and report balances for items 5.b and 5.c below.

Report interest-free balance transfers and interest-free spend (e.g., on introductory card offers) under current balances for the duration of the interest-free period.

Average of monthly totals means the average of end-of-month totals for each of the months in 2020.

5.a With zero balance (no current balance, no revolving balance)
These are accounts with zero balance at the end of the billing cycle and have no purchase activity.

► Example: Joe has a credit card issued by your institution. He has never made a purchase on this card, although the card account has been activated. In this example, you would report 1 credit card account with a balance of $0.

5.b With current balance only (nonzero current balance, no revolving balance)
These include the total number of accounts in which there is an amount owed on the credit card up to the end of the most recent billing cycle. This is the balance that needs to be paid by a certain due date so that no interest is applied.

Include:
- Balances associated with balance transfers received for which interest has not started accruing yet
- New accounts for which there is a promotional period of interest-free spend

► Example: Jay has a credit card issued by your institution, and he is a transactor (i.e., he pays the balance in full each cycle). He uses this card to make purchases occasionally and had $300 outstanding at the end of last cycle. Jay has until the end of the next billing cycle to pay the balance before interest is applied. Sarah also has a credit card issued by your institution. She has carried a balance of $500 on her account for the past two cycles; however her card is currently in a promotional period of interest free spend. In this example, you would report 2 credit card accounts with a balance of $800.
5.c  With revolving balance only (no current activity)
These include the total number of accounts in which there is an amount owed on the credit card for which interest was applied already. This is the balance which was not paid by its due date.

► Example: Rachael has a credit card issued by your institution, and she is a revolver (i.e., she carries a balance from one cycle to the next). She frequently uses this card to make purchases, and she had a balance of $500 that was outstanding at the end of the prior month, of which interest was applied to her bill this month. She did not make any purchases on the card this month, so the total balance at the end of this cycle is still $500. In this example, you would report 1 credit card account with a balance of $500. Do not include interest.

5.d  With current and revolving balances = 5.d.1 + 5.d.2
These include the total number of accounts in which there is an amount owed on the credit card which includes interest that was applied already, as well as a current balance owed on the most recent billing cycle. Include both the balance that was not paid by its due date, as well as the balance that needs to be paid by a certain due date to avoid incurring an interest expense.

► Example: Sarah has a credit card issued by your institution. She frequently uses this card to make purchases, and she had a balance of $500 that was outstanding at the end of the prior month, of which interest was applied to her bill this month. She then spent an additional $200 on the same card this month, of which interest has not yet been applied. In this example, you would report 1 credit card account with a balance of $700.

5.d.1  Current balance
Total amount owed on the credit card up to the end of your most recent billing cycle. This is the balance that you need to pay by a certain due date so that no interest is applied.

► Example: Sarah has a credit card issued by your institution. She frequently uses this card to make purchases, and she had a balance of $500 that was outstanding at the end of the prior month, of which interest was applied to her bill this month. She then spent an additional $200 on the same card this month, of which interest has not yet been applied. In this example, the current balance would be $200.

5.d.2  Revolving balance
Total amount owed on the credit card on which interest was applied already. This is the balance which was not paid by its due date.

► Example: Sarah has a credit card issued by your institution. She frequently uses this card to make purchases, and she had a balance of $500 that was outstanding at the end of the prior month, of which interest was applied to her bill this month. She then spent an additional $200 on the same card this month, of which interest has not yet been applied. In this example, the revolving balance would be $500. Do not include interest.

6.  Number of physical general-purpose credit cards = 6.a + 6.b
For cards in force, report only cards that had been issued by your institution, activated by your institution’s accountholders, and had not expired at the end of a month.
If your answer is No to item 1 above, please report “0” here.
Average of monthly totals means the average of end-of-month totals for each of the months in 2020.

Do not include:
- Private-label credit or charge card accounts whose cards can only be used at a limited set of merchants and that do not use one of the four major credit card networks
- White-label card accounts for which your institution was not the issuing institution
- Transaction deposit accounts
- Closed accounts
- Virtual cards

► Example: Your institution has 500 credit cards issued to your consumer and business accountholders at the end of January. Of these credit cards, 450 cards have been activated and are not expired, 30 cards have not been activated yet, and 20 cards have been activated but are now expired. In this example, you would report 450 credit cards in force for January. Repeat this calculation for every month and then average the total across 12 months.
6.a Consumer cards
These include all credit cards associated with consumer accounts. Please see the General Terminology section above for the definition of consumer accounts.

Include:
- All credit cards for consumer accountholders over any credit card network for which your institution was the issuer

Do not include:
- Business/government credit cards
- Consumer and business/government debit cards
- Consumer and business/government prepaid cards

► Example: Your institution has 500 credit cards issued to your consumer accounts at the end of January. Of these credit cards, 450 cards have been activated and are not expired, 30 cards have not been activated yet, and 20 cards have been activated but are now expired. In this example, you would report 450 consumer credit cards in force for January. Repeat this calculation for every month and then average the total across 12 months.

6.b Business/government cards
These include all credit cards associated with business/government accounts. Please see the General Terminology section above for the definition of business/government accounts.

Include:
- All credit cards for business/government accountholders over any credit card network for which your institution was the issuer

Do not include:
- Consumer credit card accounts
- Consumer and business/government debit card accounts
- Consumer and business/government prepaid card accounts

► Example: Your institution has 1,000 credit cards issued to business/government accountholders at the end of January. Of these credit cards, 900 cards have been activated and are not expired, 70 cards have not been activated yet, and 30 cards have been activated but are now expired. In this example, you would report 900 business credit cards in force for January. Repeat this calculation for every month and then average the total across 12 months.

7. Total general-purpose co-branded credit card non-network transactions ("internal" closed-loop transactions)
These are retail merchant credit cards that are issued in partnership with a specific network processor (i.e., Visa, MasterCard, American Express, and Discover). Co-branded cards are branded with the logo of the retailer and network processor. Users can earn discounts or rewards points when they make purchases with sponsoring merchants. If your answer is No to item 1 or item 2 above, please report “0” here.

Include:
- “Internal” (closed-loop, not using one of the above four major credit card networks) co-branded credit card transactions

Do not include:
- “External” (open-loop, using one of the above four major credit card networks) co-branded credit card network transactions

► Example: Your customer paid for her $200 hotel room with her credit card that was issued by your institution and co-branded with a hotel company. Later that day, she used another credit card issued by your institution to buy lunch for $20. In this example, you would report only 1 transaction for $200.

8. Total general-purpose credit card network transactions = 8.a + 8.b
These include all cleared and settled, domestic and cross-border transactions over any credit card network for which your institution was the issuer. If your answer is No to item 1 above, please report “0” here.

Include:
- All network transactions made with general-purpose credit cards, charge cards, or co-branded cards issued by your institution
- Both consumer and business/government credit card transactions
- Both in-person and remote credit card transactions
Do not include:
- General-purpose credit card non-network transactions (e.g., balance transfers, convenience checks)
- Co-branded credit card non-network ("internal" or closed-loop) transactions
- Debit card transactions
- Prepaid card transactions
- Credit card cash advances (e.g., ATM withdrawals, over-the-counter withdrawals)

▶ Example: Your customer bought $50 of groceries with her credit card. Later that day, she used the same credit card issued by your institution to purchase a $70 purse online. In this example, you would report two transactions for $120.

8.a From consumer accounts

Please see the General Terminology section above for the definition of consumer accounts.

Include:
- All network transactions made by consumer accountholders with general-purpose credit cards, charge cards, or co-branded cards issued by your institution

Do not include:
- Credit card transactions made by business/government accountholders

▶ Example: Tom used his credit card issued by your institution to buy a $40 pair of jeans. Later that day, he used his credit card at the ATM to make a $500 cash advance. In this example, you would report one transaction for $40.

8.b From business/government accounts

Please see the General Terminology section above for the definition of business/government accounts.

Include:
- All network transactions made by business/government accountholders with general-purpose credit cards, charge cards, or co-branded cards issued by your institution

Do not include:
- Credit card transactions made by consumer accountholders

▶ Example: Your corporate accountholder made a purchase of $500 with a corporate credit card issued by your institution. Later that day, he made a cash advance using the same credit card and withdrew $200 in cash over the counter at one of your branch locations. In this example, you would report one transaction for $500.

9. Total general-purpose credit card network transactions (repeat item 8) = 9.a + 9.b

Repeat item 8 above. These include all cleared and settled, domestic and cross-border transactions over any credit card network for which your institution was the issuer. If your answer is No to item 1 above, please report "0" here.

Quarter 1: Jan, Feb, Mar
Quarter 2: Apr, May, Jun
Quarter 3: Jul, Aug, Sep
Quarter 4: Oct, Nov, Dec

Include:
- All network transactions made with general-purpose credit cards, charge cards, or co-branded cards issued by your institution
- Both consumer and business/government credit card transactions
- Both in-person and remote credit card transactions

Do not include:
- General-purpose credit card non-network transactions (e.g., balance transfers, convenience checks)
- Co-branded credit card non-network ("internal" or closed-loop) transactions
- Debit card transactions
- Prepaid card transactions
- Credit card cash advances (e.g., ATM withdrawals, over-the-counter withdrawals)

▶ Example 1: Your customer bought $50 of groceries with her credit card. Later that day, she used the same credit card issued by your institution to purchase a $70 purse online. In this example, you would report 2 transactions for $120.
Example 2: In quarter 1, your customer completed 2 transactions with her credit card for a total of $120 in January, 4 transactions with her credit card for a total of $120 in February, and 2 transactions with her credit card for a total of $100 in March. In this example, you would report 8 transactions for $340 in quarter 1. Repeat this calculation for quarters 2, 3, and 4 using the applicable months (outlined above). To calculate the total transactions for calendar year 2020, repeat this calculation with the total of all 12 months.

9.a In-person transactions

These include all general-purpose credit card network transactions for which the card user is physically present with the card at the point of sale. Include digital wallet (e.g., Apple Pay, Samsung Pay) transactions at the point of sale only. Please report the total transactions using a PIN and without a PIN.

Include:
- In-person transactions
- In-person mobile transactions (i.e., digital wallet transactions at the point of sale using near-field communication, magnetic secure transmission, QR codes, or barcode technology)
- In-person contactless card transactions (i.e., “tap and pay” physical cards, fobs, or stickers)
- In-person intermediated transactions (e.g., Square, Clover, Zettle)
- In-person card-not-present transactions (i.e., key-entered transactions)

Do not include:
- Remote transactions
- Digital wallet in-app or browser transactions

Example: Your customer bought a coat for $100 with his credit card by entering his PIN at the checkout line. Later that day, he bought a $40 train ticket with his credit card with his digital wallet (Apple Pay) at the checkout. For this example, you would report 2 transactions for $140.

9.b Remote transactions

These include all general-purpose credit card network transactions for which the card user does not physically present the card to authorize the transaction, including mail-order transactions, telephone-order transactions, and internet transactions. Please report the total transactions with either a domestic or foreign payee.

Include:
- Remote credit card transactions (e.g., mail-order transactions, telephone-order transactions)
- Digital wallet in-app or browser credit card transactions (e.g., e-commerce transactions)

Do not include:
- In-person transactions
- In-person mobile transactions (i.e., digital wallet transactions at the point of sale using near-field communication, magnetic secure transmission, QR codes, or barcode technology)
- In-person contactless card transactions (i.e., “tap and pay” physical cards, fobs, or stickers)
- In-person intermediated transactions (e.g., Square, Clover, Zettle)
- In-person card-not-present transactions (i.e., key-entered transactions)

Example: Your customer purchased a $500 item on a German internet website with his credit card by entering his credit card number, name, and address. He then proceeded to buy a $65 pair of shoes from a U.S.-based store in a mobile application not at the point of sale, paying with the same credit card with his digital wallet (Google Pay). In this example, you would report 2 transactions for $565.

10. Third-party fraudulent general-purpose credit card network transactions = 10.a + 10.b

These include all third-party unauthorized credit card transactions, before any recoveries or chargebacks, for which your institution was the card issuer. Please report any fraudulent third-party credit card transactions, regardless of whether the transaction resulted in a loss of funds. If your answer is No to item 1 above, please report “0” here.

Include:
- Credit card transactions that were not authorized by a valid card user (third-party fraud)

Do not include:
- Fraud prevented by declining a transaction
- Fraud committed by a valid card user (first-party fraud)
- Fraudulent debit card transactions
- Fraudulent prepaid card transactions
- Credit card transactions authorized by a valid card user as part of a scam
- Fraudulent credit card cash advances (e.g., ATM withdrawals, over-the-counter withdrawals)
Example 1: Your accountholder’s credit card issued by your institution was stolen. The perpetrator used the card to make one purchase worth $1,000, which was authorized at the point of sale. The perpetrator attempted to make another purchase worth $500 the next day. Your accountholder had already alerted your institution to the previous fraudulent activity and a hold had been put on her account, so the perpetrator never received funds from the second attempt. In this example, you would report 1 transaction for $1,000.

Example 2: Your accountholder claimed that her credit card was stolen and used to purchase a $500 TV in an electronics store. An investigation by your institution determined that in fact your accountholder made this purchase on her card. Since this transaction is an example of first-party fraud (false claim of fraud), it should not be included in item 10 above.

10.a In-person transactions

These include only third-party fraudulent general-purpose credit card transactions for which the card user is physically present with the card at the point of sale. Include digital wallet (e.g., Apple Pay, Samsung Pay) transactions at the point of sale only. Please report the total transactions using PIN, and without PIN.

Include:
- In-person fraudulent transactions
- Fraudulent in-person contactless credit card transactions (i.e., “tap and pay” with a credit card)
- Fraudulent in-person mobile transactions (i.e., digital wallet transactions at the point of sale using near-field communication, magnetic secure transmission, QR codes, or barcode technology)
- Fraudulent in-person intermediated transactions (e.g., Square, Clover, Zettle)
- Fraudulent in-person card-not-present transactions (i.e., key-entered transactions)

Do not include:
- Fraudulent remote transactions
- Fraudulent digital wallet in-app or browser transactions

Example 1: Your accountholder’s credit card was stolen. The perpetrator used the card to make two purchases totaling $1,000 over the internet. He then bought lunch for $35 at a restaurant using the stolen card. In this example, you would report 1 transaction for $35.

Example 2: Your accountholder claimed that her credit card was stolen and used to purchase a $500 TV in an electronics store. An investigation by your institution determined that in fact your accountholder made this purchase on her card. Since this transaction is an example of first-party fraud (false claim of fraud), it should not be included in item 10.a above.

10.b Remote transactions

These include only third-party fraudulent general-purpose credit card transactions for which the card user does not physically present the card at the point of sale. Include any fraudulent third-party credit card transactions, regardless of whether the transaction resulted in a loss of funds. Please report the total transactions with either a domestic or foreign payee.

Include:
- Fraudulent remote credit card transactions (e.g., mail-order transactions, telephone-order transactions)
- Fraudulent digital wallet in-app or browser credit card transactions (e.g., e-commerce transactions)

Do not include:
- In-person fraudulent transactions
- Fraudulent in-person contactless credit card transactions (i.e., “tap and pay” with a credit card)
- Fraudulent in-person mobile transactions (i.e., digital wallet transactions at the point of sale using near-field communication, magnetic secure transmission, QR codes, or barcode technology)
- Fraudulent in-person intermediated transactions (e.g., Square, Clover, Zettle)
- Fraudulent in-person card-not-present transactions (i.e., key-entered transactions)

Example 1: Your accountholder’s credit card was stolen. The perpetrator used the card to purchase a TV for $500 at a store by fraudulently signing the receipt. He then proceeded to use the stolen card to buy an item online for $250. Both transactions were authorized. In this example, you would report 1 transaction for $250.

Example 2: Your accountholder claimed that his credit card was stolen and used to purchase a $20 video game online. An investigation by your institution determined that in fact your accountholder made this purchase on his card. Since this transaction is an example of first-party fraud (false claim of fraud), it should not be included in item 10.b above.
11. Did your institution have contactless general-purpose credit cards in circulation in 2020 for which your institution was the issuer?
Please see the General Terminology section above for the definition of contactless cards.

Include:
- Contactless credit cards at the point of sale (i.e., “tap and pay” physical cards, fobs, or stickers)

11.a If your answer is “Yes” to item 11 above, are you able to exclude contactless card volumes in your answers to item 13 and its subsets below?

If your answer is Yes, in some cases, please explain in the comments box at the end of this section.
If your answer is No, please report the combined general-purpose credit card contactless and digital wallet accounts (and associated transactions) for item 12 and its subsets (and item 13 and its subsets) below, and explain in the comments box at the end of this section.

12. Number of active general-purpose credit card digital wallet accounts
(Average of monthly totals in 2020)
New active digital wallet accounts are accounts from which at least one value transaction via digital wallet was completed for the first time within a month.
All active digital wallet accounts are accounts from which at least one value transaction via digital wallet was completed within a month.
Please see the General Terminology section above for the definition of digital wallet. If your answer is No to item 1 above, please report “0” here.

Quarter 1: Jan, Feb, Mar
Quarter 2: Apr, May, Jun
Quarter 3: Jul, Aug, Sep
Quarter 4: Oct, Nov, Dec

► Example: Your institution had 100 digital wallet accounts in January from which at least one value transaction was completed. For 10 of these accounts, the accountholder completed a transaction via digital wallet for the first time. Your institution had 120 digital wallet accounts in February from which at least one value transaction was completed. For 35 of these accounts, the accountholder completed a transaction via digital wallet for the first time. Your institution had 170 digital wallet accounts in March from which at least one value transaction was completed. For 30 of these accounts, the accountholder completed a transaction via digital wallet for the first time. In this example, you would report 25 new active digital wallet accounts, and 130 active digital wallet accounts in quarter 1. Repeat this calculation for quarters 2, 3, and 4 using the applicable months (outlined above). To calculate the active users for calendar year 2020, repeat this calculation with the average of all 12 months.

13. Total general-purpose credit card digital wallet transactions = 13.a + 13.b
These are all cleared and settled, domestic and cross-border general-purpose credit card transactions made via a digital wallet, including tokenized digital wallet. If your answer is No to item 1 above, please report “0” here.

Include:
- Digital wallet credit card transactions made by using electronic devices, such as a smartphone, smart watch, or activity tracker, by “tapping” the device at the POS terminal (e.g., Apple Pay, Samsung Pay, Google Pay, Fitbit Pay, Masterpass)
- Tokenized digital wallet credit card transactions made by using customer’s payment credentials saved in a virtual account number. These credentials can be stored either on a smartphone or in the cloud. When making a purchase, a substitute account number and a transaction specific code (“token”) are used to process payments. This can include purchasing items online with a computer or using a smartphone to make a purchase with a browser or in-app (e.g., Apple Pay, Google Pay, Masterpass, Visa Checkout, Amex Express Checkout)
- Digital wallet credit card NFC (near-field communication) transactions, MST (magnetic secure transmission) transactions, QR code transactions, barcode transactions, in-app transactions, or browser transactions.

Do not include:
- Credit card-on-file e-commerce transactions (cardholder-initiated or merchant-initiated) (i.e., installment payment)
- Transactions made via contactless cards (i.e., “tap and pay”)

► Example: Your customer bought a movie for $10 with his credit card, which was loaded into his digital wallet (Apple Pay). He physically tapped his phone on the POS device to pay for lunch, using NFC technology. He then ordered a $30 dinner in a mobile application, paying with the same credit card via his digital wallet (Apple Pay). In this example, you would report 2 transactions for $40.
13.a **In-person transactions**

These include credit card transactions for which an electronic device, such as a smartphone, smart watch, or activity tracker, was “tapped” to pay at the POS terminal (e.g., Apple Pay, Samsung Pay, Google Pay, Fitbit Pay)

**Include:**
- In-person mobile transactions (i.e., digital wallet transactions at the point of sale using near-field communication, magnetic secure transmission, QR codes, or barcode technology)

**Do not include:**
- In-app transactions or browser transactions made with a digital wallet (e.g., Apple Pay, Google Pay, Samsung Pay)
- Tokenized digital wallet transactions made by using customer’s payment credentials saved in a virtual account (e.g., Apple Pay, Google Pay, Masterpass, Visa Checkout, Amex Express Checkout)

► **Example:** Your customer bought lunch for $15 with his credit card, which was loaded into his digital wallet (Apple Pay). He physically tapped his phone on the POS device to pay for lunch, using NFC technology. He then bought groceries for $100 with his credit card by tapping his card on the POS device. In this example, you would report 1 transaction for $15.

13.b **Remote transactions**

These include in-app credit card transactions or browser transactions made with a digital wallet. Browser transactions include both digital wallets (e.g., Apple Pay, Google Pay, Samsung Pay) and third-party tokenized digital wallets (e.g., PayPal, Amazon Pay, Square Restaurants, Visa Checkout, Masterpass)

**Include:**
- In-app transactions or browser transactions made with a digital wallet (e.g., Apple Pay, Google Pay, Samsung Pay)
- Tokenized digital wallet transactions made by using customer’s payment credentials saved in a virtual account (e.g., Apple Pay, Google Pay, Masterpass, Visa Checkout, Amex Express Checkout)

**Do not include:**
- In-person mobile transactions (i.e., digital wallet transactions at the point of sale using near-field communication, magnetic secure transmission, QR codes, or barcode technology)

► **Example:** Your customer purchased a $500 item on an internet website with his credit card by entering his credit card number, name, and address. He then bought a $65 pair of shoes in a mobile application, paying with the same credit card with his digital wallet (Google Pay). In this example, you would report 1 transaction for $65.
Cash

GENERAL TERMINOLOGY

Your institution

“Your institution” refers to the participating depository institution at its highest organizational level (i.e., holding company, if applicable), including all affiliates. Only report data associated with your institution’s U.S. domiciled accounts (i.e., those accounts located within the 50 U.S. states, D.C., or U.S. territories such as Guam, Puerto Rico, or U.S. Virgin Islands), including both domestic and cross-border transactions.

Cash withdrawals

Cash withdrawals made by your accountholders at your ATMs, “foreign” ATMs, wholesale vaults, or over the counter or from remote currency management terminals (RCMTs). For this study, please follow these guidelines:

<table>
<thead>
<tr>
<th>Cash withdrawals include...</th>
<th>Cash Withdrawals do not include...</th>
</tr>
</thead>
<tbody>
<tr>
<td>▪ All cash withdrawals by your accountholders (including, as appropriate for the particular survey question, withdrawals made in other countries)</td>
<td>▪ Cash withdrawals or other transactions by individuals or businesses other than your accountholders</td>
</tr>
<tr>
<td>▪ Cash paid out in exchange for a check, whether for an accountholder or not (in this case, whomever receives the cash is a customer)</td>
<td>▪ Deposit transactions</td>
</tr>
<tr>
<td>▪ Credit card cash advances</td>
<td>▪ Inquiries</td>
</tr>
<tr>
<td>▪ Prepaid card cash withdrawals</td>
<td>▪ Funds transfers</td>
</tr>
<tr>
<td></td>
<td>▪ Statement prints</td>
</tr>
<tr>
<td></td>
<td>▪ Purchases (e.g., stamps, tickets)</td>
</tr>
<tr>
<td></td>
<td>▪ Any other non-withdrawal transactions</td>
</tr>
</tbody>
</table>

Cash advances

A service that allows credit and charge card holders to withdraw cash using a credit card, either in-person through an ATM or over the counter at a bank or other financial agency. Credit card issuers reporting cash advances in this section should not include convenience checks or balance transfers in reported amounts.

ATM cash withdrawals

Cash withdrawals made by your accountholders at your ATMs or at “foreign” ATMs. For this study, please follow these guidelines:

<table>
<thead>
<tr>
<th>ATM cash withdrawals include...</th>
<th>ATM cash withdrawals do not include...</th>
</tr>
</thead>
<tbody>
<tr>
<td>▪ All ATM cash withdrawals by your accountholders (including, as appropriate for the particular survey question, withdrawals made in other countries)</td>
<td>▪ Cash withdrawals or other transactions by individuals or businesses other than your accountholders</td>
</tr>
<tr>
<td>▪ Credit card cash advances</td>
<td>▪ Over-the-counter withdrawals</td>
</tr>
<tr>
<td>▪ Prepaid card cash withdrawals</td>
<td>▪ Withdrawals from remote currency management terminals (RCMTs)</td>
</tr>
<tr>
<td></td>
<td>▪ Deposit transactions</td>
</tr>
<tr>
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<td>▪ Convenience checks</td>
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<td>▪ Inquiries</td>
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<td>▪ Funds transfers</td>
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<tr>
<td></td>
<td>▪ Statement print-outs</td>
</tr>
<tr>
<td></td>
<td>▪ Purchases (e.g., stamps, tickets)</td>
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<tr>
<td></td>
<td>▪ Any other non-withdrawal transactions</td>
</tr>
<tr>
<td></td>
<td>▪ Convenience checks</td>
</tr>
<tr>
<td></td>
<td>▪ Balance transfers</td>
</tr>
</tbody>
</table>
**Account type definitions**

**Consumer account**
An account for personal use by an individual or household from which ATM withdrawals can be made and cash can be deposited.

**Business/government account**
An account owned by an organization (i.e., business, government, non-depository financial institution, or not-for-profit organization) from which ATM withdrawals can be made and cash can be deposited

**Note:** Please report small business accounts under business/government accounts, if possible.

**Third-party fraud**
The Federal Reserve Payments Study has identified a measure of fraud that can be described as cleared and settled third-party fraudulent transactions. This measure is not a loss-of-funds measure, nor is it a measure of fraud attempts; rather, it is a measure of the extent to which third parties who are not authorized to conduct transactions are able to penetrate the payment system and affect settlement between banks, or create a book transfer of funds if the transaction happens within one institution. The definition includes third-party fraud with all types of outcomes that may or may not include a loss to various entities, but constitutes a fraud attempt that manages to create a funds transfer, if only temporary. The definition is depicted below within the hierarchy of fraud attempts visible to your institution. The definition of fraud in this study is highlighted in yellow to show that cleared and settled third-party fraud includes at least six different categories of fraud outcomes.

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**Cash Withdrawals**

**SURVEY ITEMS**

1. **Total cash withdrawals from your institution** = 1.a + 1.b + 1.c + 1.d
   
   These include all cleared and settled, domestic and cross-border cash withdrawals made from accounts at your institution.

   **Include:**
   - Cash withdrawals that were made over the counter at your institution's bank branches
   - Cash orders at wholesale vaults
   - Cash withdrawals at ATMs and RCMTs
   - Cash withdrawals from deposit and prepaid card program accounts
   - Credit card cash advances
Do not include:
- Noncash withdrawal transactions made from accounts at your institution
- Withdrawals made from accounts at another institution
- Deposit transactions
- Teller vault activity
- Convenience checks
- Balance transfers
- Other non-withdrawal transactions (e.g., inquiries, statement print-outs, purchases of stamps, tickets)

1.a Over-the-counter cash withdrawals
These include all cash withdrawals made by your institution’s accountholders at bank lobby teller window or drive-through teller.

Note: Please count only over-the-counter cash withdrawals made at your institution’s branch locations from accounts at your institution.

Include:
- Withdrawal transactions initiated via a withdrawal slip or via the deposit of any negotiable or nonnegotiable instrument
- Over-the-counter cash withdrawals made using your accountholder’s debit, prepaid or credit card linked to the account
- Over-the-counter check cashing (only include the portion of the check that was received in cash)

Do not include:
- Cash withdrawals at ATM terminals including those located at your institution’s branch locations

► Example: Your accountholder withdrew $100 in cash over the counter from a teller at one of your institution’s branch locations. In this example, you would report 1 transaction of $100.

1.b Cash orders at wholesale vaults
These include all cash withdrawals handled through armored couriers including vaults operated by your institution or outsourced to armored couriers or other third-party vault operators. Also include all cash (notes and coin) withdrawals made at wholesale vaults from accounts at your institution.

Note: Please count only cash withdrawals made from accounts at your institution at wholesale vaults.

Include:
- Cash withdrawals at outsourced wholesale vaults made from accounts at your institution

Do not include:
- Cash withdrawals at ATM terminals

► Example: A local retailer for which your institution provides banking services used an armored courier service to deposit $5,000 in cash and coin at your cash vault and to order $1,500 in various denominations of cash straps and coin rolls to make change available in its store(s). In this example, you would include 1 cash order for $1,500.

1.c Cash withdrawals made at remote currency management terminals (RCMTs)
These include all cash withdrawals made at remote currency management terminals (e.g., “smart safes” and “cash recyclers”) that were deployed by your institution and resided at a client site (e.g., gas station, restaurant).

Include:
- All cash withdrawals at RCMTs

Do not include:
- Cash deposits made at remote currency management terminals
- Transactions that involved armored couriers withdrawing cash from these terminals or replenishing cash in cash recyclers

► Example: Your customer, a gas station, has installed a cash recycler provided by your institution at one of its stores. In the evening, a gas station clerk deposited $500 in the cash recycler. The next morning, another clerk withdrew $1,000 from the same recycler. In this example, you would report 1 withdrawal for $1,000.

1.d Total ATM cash withdrawals (your institution’s accountholder, any ATM)
These include all cash withdrawals made from accounts at your institution from any ATM, including those at your institution’s ATM terminals or “foreign” ATMs. A “foreign” ATM is an ATM operated by an unaffiliated depository institution or ATM operator that is not sponsored by your institution.

Note: Please count only cash withdrawals made from accounts at your institution at any ATM terminal.
Include:
- Your institution’s prepaid, debit, and credit card accountholders’ ATM cash withdrawals at your institution’s ATMs (include cash advances from credit card accountholders)

► Example: Glen is a checking accountholder at your institution. Jennifer is not. Glen withdrew $100 cash from his checking account using your ATM on Monday and $200 using another institution’s ATM on Friday. Jennifer withdrew $400 from your ATM on Tuesday. In this example, you would report 2 ATM withdrawals for a total of $300.

2. Total cash withdrawals from your institution (repeat item 1) = 2.a + 2.b
Repeat item 1 above. These include all cleared and settled, domestic and cross-border cash withdrawals made from accounts at your institution.

Include:
- Cash withdrawals that were made over the counter at your institution’s bank branches
- Cash orders at wholesale vaults
- Cash withdrawals at ATMs and RCMTs
- Cash withdrawals from deposit and prepaid card program accounts
- Credit card cash advances

Do not include:
- Noncash withdrawal transactions made from accounts at your institution
- Withdrawals made from accounts at another institution
- Deposit transactions
- Teller vault activity
- Convenience checks
- Balance transfers
- Other non-withdrawal transactions (e.g., inquiries, statement print-outs, purchases of stamps, tickets)

2.a From consumer accounts
These include all consumer deposit account cash withdrawals. Please refer to the General Terminology section above for the definition of consumer accounts.

Include:
- Consumer or prepaid account withdrawals
- Consumer credit card cash advances

Do not include:
- Business/government account withdrawals

► Example: Your consumer accountholder withdrew $250 in cash at an ATM. In this example, you would report one withdrawal of $250.

2.b From business/government accounts
These include all business/government account cash withdrawals. Please include small business accounts under business/government accounts. Please refer to the General Terminology section above for the definition of business/government accounts.

Include:
- Cash withdrawals made on a debit or prepaid card linked to a business/government account
- Business/government credit card cash advances

Do not include:
- Consumer account withdrawals

► Example: Your small business accountholder, a restaurant owner, withdrew $500 in cash over the counter at one of your institution’s branches. In this example, you would report one withdrawal of $500.

3. Total ATM cash withdrawals (your institution’s accountholder, any ATM) (repeat item 1.d) = 3.a + 3.b
Repeat item 1.d above. These are cash withdrawals made from accounts at your institution from any ATM, including those at your institution’s ATMs or “foreign” ATMs. A “foreign” ATM is an ATM operated by an unaffiliated depository institution or ATM operator that is not sponsored by your institution.

Note: Please count only cash withdrawals made from accounts at your institution at any ATM.

Include:
- Your institution’s prepaid and debit card accountholders’ ATM cash withdrawals at any ATM
- Cash advances from credit cards at ATM terminals
Do not include:
- Withdrawals by another institution’s accountholders at your institution’s ATMs
- Deposit transactions
- RCMT withdrawals
- Teller vault activity
- Over-the-counter cash withdrawals
- Other non-withdrawal transactions (e.g., inquiries, statement print-outs, purchases of stamps, tickets)

Example: Glen is a checking accountholder at your institution, and Jennifer is not. Glen withdrew $100 cash from his checking account using your ATM on Monday and $200 using another institution’s ATM on Friday. Jennifer withdrew $400 from your ATM on Tuesday. In this example, you would report 2 withdrawals for a total of $300.

3.a Domestic ATM withdrawals (your institution’s accountholder, any ATM in the U.S.)
These are cash withdrawals made from accounts at your institution from any ATM located in the U.S. (i.e., ATMs located in the 50 U.S. states, D.C., or U.S. territories).

Include:
- All cash withdrawals on your institution’s accounts from any ATM located in the U.S.

Do not include:
- Cash withdrawals on your institution’s accounts from any ATM located outside the U.S.

Example: Sam, John, and Jenny are checking accountholders at your institution. Sam withdrew $100 in cash at one of your institution’s ATMs located in New York. John withdrew $150 in cash at another institution’s ATM located in Chicago. Jenny withdrew $200 in cash at another institution’s ATM located in Canada. In this example, you would report 2 withdrawals for a total of $250.

3.b Cross-border ATM withdrawals (your institution's accountholder, any ATM outside the U.S.)
These are cash withdrawals made from accounts at your institution from any ATM located outside the U.S.

Include:
- All cash withdrawals on your institution’s accounts from any ATM located outside the U.S.

Do not include:
- Cash withdrawals on your institution’s accounts from any ATM located in the U.S.

Example: Sam, John, and Jenny are checking accountholders at your institution. Sam withdrew $100 in cash at one of your institution’s ATMs located in New York. John withdrew $150 in cash at another institution’s ATM located in Chicago. Jenny withdrew $200 in cash at another institution’s ATM located in Canada. In this example, you would report 1 withdrawal for $200.

4. Third-party fraudulent ATM cash withdrawals (your institution’s accountholder, any ATM)
These are all ATM cash withdrawals that were not authorized by your institution’s accountholders (third-party fraud).

Include:
- Any third-party, fraudulent ATM cash withdrawals, regardless of whether those funds were subsequently recovered (debit, prepaid ATM cash withdrawals and credit card cash advances)

Do not include:
- Fraud committed by a valid accountholder (first-party fraud)
- Fraudulent withdrawals at your institution’s ATMs that were made by another institution’s accountholders
- Deposit transactions
- Unauthorized non-withdrawal transactions at an ATM

Example 1: Your accountholder’s debit card was stolen by a perpetrator who watched her enter her PIN at the point of sale. The perpetrator used the card and PIN to make a one-time $200 ATM withdrawal. The next day, the perpetrator tried to withdraw $500 from another ATM. Your accountholder had already reported the previous fraudulent activity and a hold had been put on their account, so the perpetrator was not able to withdraw any funds. In this example, you would report 1 transaction for $200.

Example 2: Your accountholder claimed that a perpetrator stole her debit card and used it to withdraw $100 from an ATM. However, an investigation by your institution determined the claim to be false, as the money was actually withdrawn by your accountholder. Since this transaction is an example of first-party fraud (false claim of fraud), you would not include it in item 4 above.
Alternative Payment Initiation Methods

This section covers all cleared and settled, domestic and cross-border online or mobile consumer bill payments and person-to-person (P2P) transfers originated by your institution's consumer accountholders, including third-party fraudulent P2P transfer originations.

GENERAL TERMINOLOGY

Your institution

"Your institution" refers to the participating depository institution at its highest organizational level (i.e., holding company, if applicable), including all affiliates. Only report data associated with your institution's U.S. domiciled accounts (i.e., those accounts located within the 50 U.S. states, D.C., or U.S. territories such as Guam, Puerto Rico, or U.S. Virgin Islands), including both domestic and cross-border transactions.

Third-party fraud

The Federal Reserve Payments Study has identified a measure of fraud that can be described as cleared and settled third-party fraudulent transactions. This measure is not a loss-of-funds measure, nor is it a measure of fraud attempts; rather, it is a measure of the extent to which third parties who are not authorized to conduct transactions are able to penetrate the payment system and affect settlement between depository institutions, or create a book transfer of funds if the transaction happens within one institution. The definition includes third-party fraud with all types of outcomes that may or may not include a loss to various entities, but constitutes a fraud attempt that manages to create a funds transfer, if only temporary. The definition is depicted below within the hierarchy of fraud attempts visible to your institution. The definition of fraud in this study is highlighted in yellow to show that cleared and settled third-party fraud includes at least six different categories of fraud outcomes.

![Diagram of cleared and settled third-party fraud categories]

- Returned fraud
- Depositing customer charged
- Courtesy write-off (collecting bank, acquiring bank, debit ODFI, credit RDFI loss)
- Recovered from third parties
- Charged to accountholder ("paying" customer charged)
- Courtesy write-off (paying bank, issuing bank, debit RDFI, credit ODFI loss)
- Recovered from third parties
- Cleared but not settled third-party fraud (for cards, third-party fraud attempts that were not authorized)
- Gross fraud (total attempts at fraud by third parties)
SURVEY ITEMS

1. Did your institution offer online or mobile consumer bill payments during calendar year 2020?
   These include online and mobile bill payment transactions initiated through your institution’s bill payment platform. If your answer to this question is No, please report “0” for item 2 below.

   Include:
   ▪ All online and mobile bill payment transactions paid from consumer accounts at your institution and initiated through a web browser (including a mobile browser), a mobile application, or an SMS/text message

   Do not include:
   ▪ Payments made through a biller’s website
   ▪ Person-to-person transfers (e.g., Zelle) reported in item 4 and 5 below
   ▪ All online and mobile bill payment transactions paid from business/government accounts at your institution and initiated through a web browser (including a mobile browser), a mobile application, or an SMS/text message

   ► Example: Your accountholder paid his utility bill through his PC by initiating a payment from his account via your institution’s website. Another accountholder paid his rent by initiating a payment from his account via your institution’s website using his smartphone. A third accountholder paid his rent by initiating a payment via your institution’s mobile application rather than your institution’s website. Any one of these examples would result in a Yes response to this question.

2. Total online or mobile bill payment transactions initiated by your institution's consumer accountholders
   These include all cleared and settled, domestic and cross-border online and mobile consumer bill payment transactions initiated through your institution’s bill payment platform. If your answer is No to item 1 above, please report “0” here.

   Include:
   ▪ All online and mobile bill payment transactions paid from consumer accounts at your institution and initiated through a web browser (including a mobile browser), a mobile application, or an SMS/text message

   Do not include:
   ▪ Payments made through a biller’s website
   ▪ Person-to-person transfers (e.g., Zelle) reported in item 4 and 5 below
   ▪ All online and mobile bill payment transactions paid from business/government accounts at your institution and initiated through a web browser (including a mobile browser), a mobile application, or an SMS/text message

   ► Example: Your accountholder paid her $50 utility bill through her PC by initiating a payment from her account via your institution’s website. Another accountholder paid his rent of $1,500 by initiating a payment from his account via your institution’s website using his smartphone. A third accountholder paid his rent of $2,000 by initiating a payment via your institution’s mobile application rather than your institution’s website. In this example you would report 3 transactions for $3,550.

3. Did your institution offer an online or mobile person-to-person (P2P) funds transfer system during calendar year 2020?
   These include all online, mobile, and SMS/text message funds transfer transactions from person to person (P2P). If your answer is No, please report “0” for items 4, 5, and 6 below.

   Include:
   ▪ Person-to-person transfers initiated through a web browser (including a mobile browser), your institution’s mobile application, or an SMS/text message. Include Zelle and Popmoney P2P transfers if they are initiated through your institution’s online application

   Do not include:
   ▪ Business/government-to-person
   ▪ Transfers made from an external party’s website including Venmo, Popmoney, and Zelle P2P transfers if they are initiated through an external party’s online application
   ▪ Transfers from small business accounts to consumer accounts
   ▪ Online and mobile bill payment transactions initiated through your institution’s bill payment platform
   ▪ P2P transfers received from an accountholder at another institution
4. **Number of active online or mobile person-to-person (P2P) transfer accounts**

   - **New active P2P transfer accounts** are accounts from which at least one payment was sent via your institution’s P2P transfer platform for the first time within a month.
   - **All active P2P transfer accounts** are accounts from which at least one payment was sent via your institution’s P2P transfer platform within a month.

   If your answer is **No** to item 3 above, please report “0” here.

   **Quarter 1:** Jan, Feb, Mar
   **Quarter 2:** Apr, May, Jun
   **Quarter 3:** Jul, Aug, Sep
   **Quarter 4:** Oct, Nov, Dec

   **Example:** Your institution had 100 P2P transfer accounts in January from which at least one value transaction was completed. For 10 of these accounts, the accountholder completed a transaction via your institution’s P2P transfer platform for the first time. Your institution had 120 P2P transfer accounts in February from which at least one value transaction was completed. For 35 of these accounts, the accountholder completed a transaction via your institution’s P2P transfer platform for the first time. Your institution had 170 P2P transfer accounts in March from which at least one value transaction was completed. For 30 of these accounts, the accountholder completed a transaction via your institution’s P2P transfer platform for the first time. In this example, you would report 25 new active P2P transfer accounts, and 130 active P2P transfer accounts in quarter 1. Repeat this calculation for quarters 2, 3, and 4 using the applicable months (outlined above). To calculate the active users for calendar year 2020, repeat this calculation with the average of all 12 months.

5. **Total online or mobile person-to-person (P2P) transfer originations**

   These include all cleared and settled, domestic and cross-border person-to-person transfers originated by your institution’s consumer accountholders and initiated via your institution’s website, mobile application, or an SMS/text message to another consumer account. If your answer is **No** to item 3 above, please report “0” here.

   **Include:**
   - Person-to-person transfers initiated through a web browser (including a mobile browser), your institution’s mobile application, or an SMS/text message. Include Zelle and Popmoney P2P transfers if they are initiated through your institution’s online application

   **Do not include:**
   - Business/government-to-person
   - Transfers made from an external party’s website including Venmo, Popmoney, and Zelle P2P transfers if they are initiated through an external party’s online application
   - Transfers from small business accounts to consumer accounts
   - Online and mobile bill payment transactions initiated through your institution’s bill payment platform
   - P2P transfers received from an accountholder at another institution

   **Example:** Your accountholder, Jenny, initiated a $200 payment from her account to another person’s account at another institution via Zelle offered through the mobile version of your institution’s website. Another accountholder at your institution initiated a payment from his account to another person’s account at another institution via Popmoney on your institution’s mobile application. Both of these examples would result in a **Yes** response to this question.

6. **Third-party fraudulent online or mobile person-to-person (P2P) transfer originations**

   These include all fraudulent person-to-person transfers originated from your institution’s consumer account and initiated via your institution’s website, mobile application, or an SMS/text message to another consumer account. If your answer is **No** to item 3 above, please report “0” here.

   **Include:**
   - Fraudulent person-to-person transfers initiated through a web browser (including a mobile browser), your institution’s mobile application, or an SMS/text message. Include fraudulent Zelle and Popmoney P2P transfers if they are initiated through your institution’s online application
Do not include:
- Fraudulent business/government-to-person
- Fraudulent transfers made from an external party’s website, including Venmo, Popmoney, and Zelle P2P transfers if they are initiated through an external party’s online application
- Fraudulent transfers from small business accounts to consumer accounts
- Any fraudulent bill payment transactions initiated through your institution’s bill payment platform
- Fraudulent P2P transfers received from an accountholder at another institution

► Example: John is an accountholder at your institution. His account was hacked. The perpetrator used Zelle through your institution’s mobile application and paid his own account, also at your institution, $100. He then initiated a second payment of $200 from John’s account to pay another person’s account at another institution using Zelle as before. The next day, the perpetrator attempted to initiate a third payment of $300 from John’s account to pay his own account at your institution via Zelle on your institution’s mobile application. However, John had already alerted your institution to the previous fraudulent activity and a hold had been put on his account, so the funds were never made available to the perpetrator. In this example you would report 2 transactions for $300.