THE FEDERAL RESERVE
Financial Services

# FedDetect® Duplicate Notification for Check Services webinar

February 25, 2025

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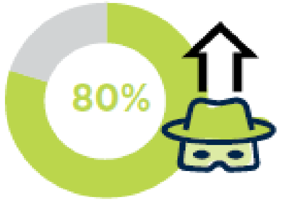
# Three primary focus areas


Risk mitigation

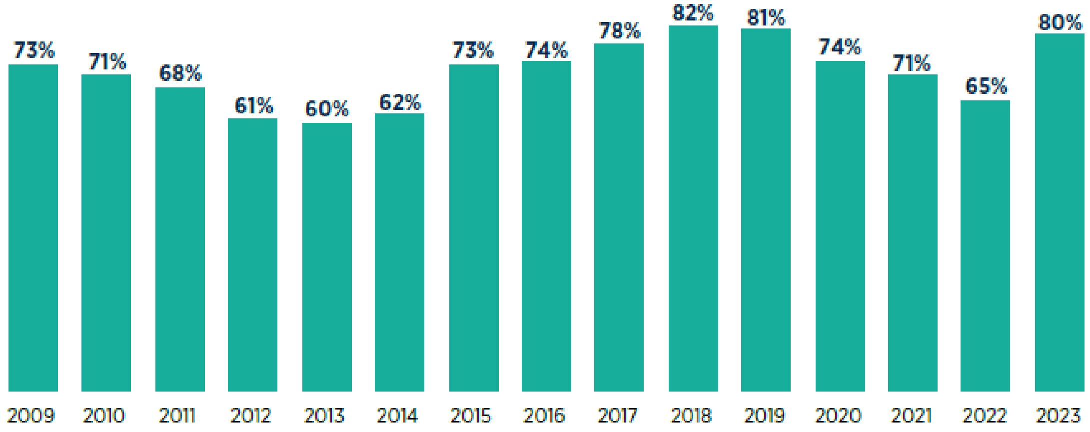
Information services


Dispute resolution

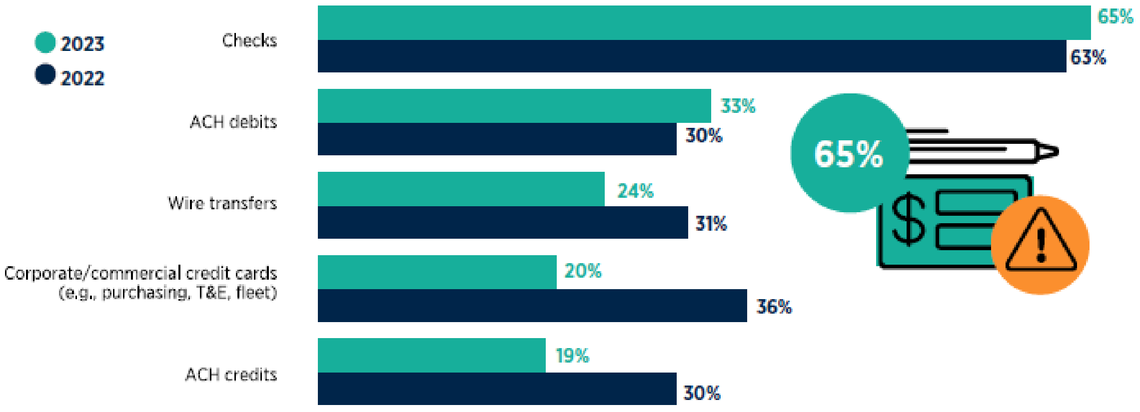
# 2024 AFP® Payments Fraud Survey




**Prevalence of Attempted/Actual Payments Fraud In 2023**
(Percent of Organizations)




**Payment Methods Subject to Attempted/Actual Payments Fraud**
(Percent of Organizations)

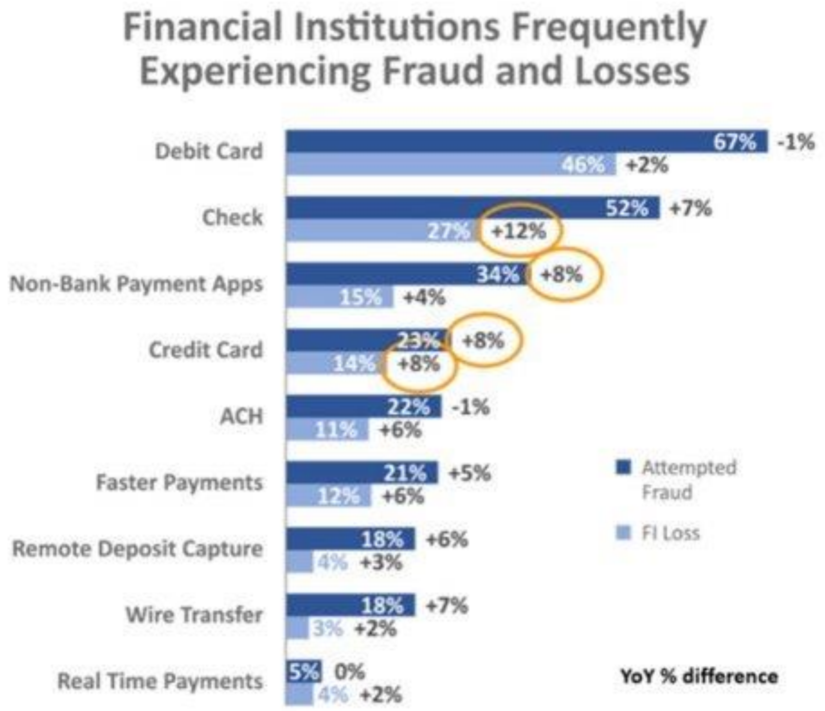


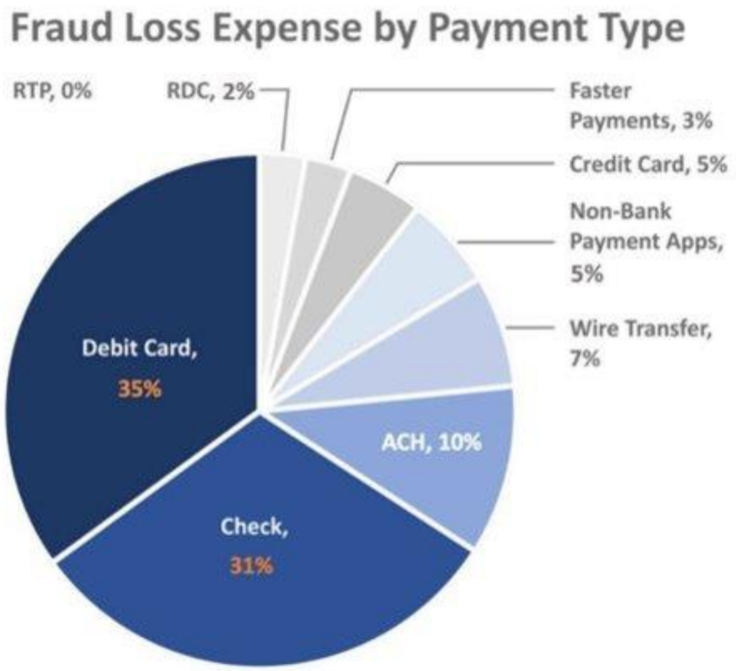

- **80% of organizations** reported having been **targets of payments fraud activity in 2023**, an increase from 65% in 2022
- **65% of organizations reported checks** to be the payment method **most susceptible to fraud**
- **70% of organizations** have **no immediate plans to discontinue check usage**



Source: Association of Financial Professionals, 2024 AFP Payments Fraud and Control Survey Report Comprehensive Findings

# FRFS Financial Institution Risk Officer Survey




- In 2023, like 2022, **external fraud remained the top operational risk** with survey responders citing concerns over increased **check fraud**
- The growth ratio between check attempted fraud and losses suggest **check losses are growing faster than attempts**
- **Check represented the largest year-over-year increase in FIs experiencing loss**
- Fraud loss by payment type showed **check at 31% of the respondents' yearly fraud loss expenses**, approaching the historically top-ranked debit card level of 35%


Source: https://www.frbservices.org/binaries/content/assets/crsocms/news/research/2023-risk-officer-survey-v2.pdf

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# FRFS Financial Institution Risk Officer Survey

## Top Barriers to Mitigation of Operational Risks

### Lack of Resources

- “Being able to hire qualified individuals/experts and increasing operational expense”
- “A lack of flexibility and control within our core does not allow for swift changes to react to ever-changing threats.”
- “Time and cost. We are drowning in work already. Learning a new system or process takes time away from regular duties.”
- “We have been short-staffed for years in assorted departments. We have trouble retaining and/or training employees in member-facing roles.”



Source: https://www.frbservices.org/binaries/content/assets/crsocms/news/research/2023-risk-officer-survey-v2.pdf

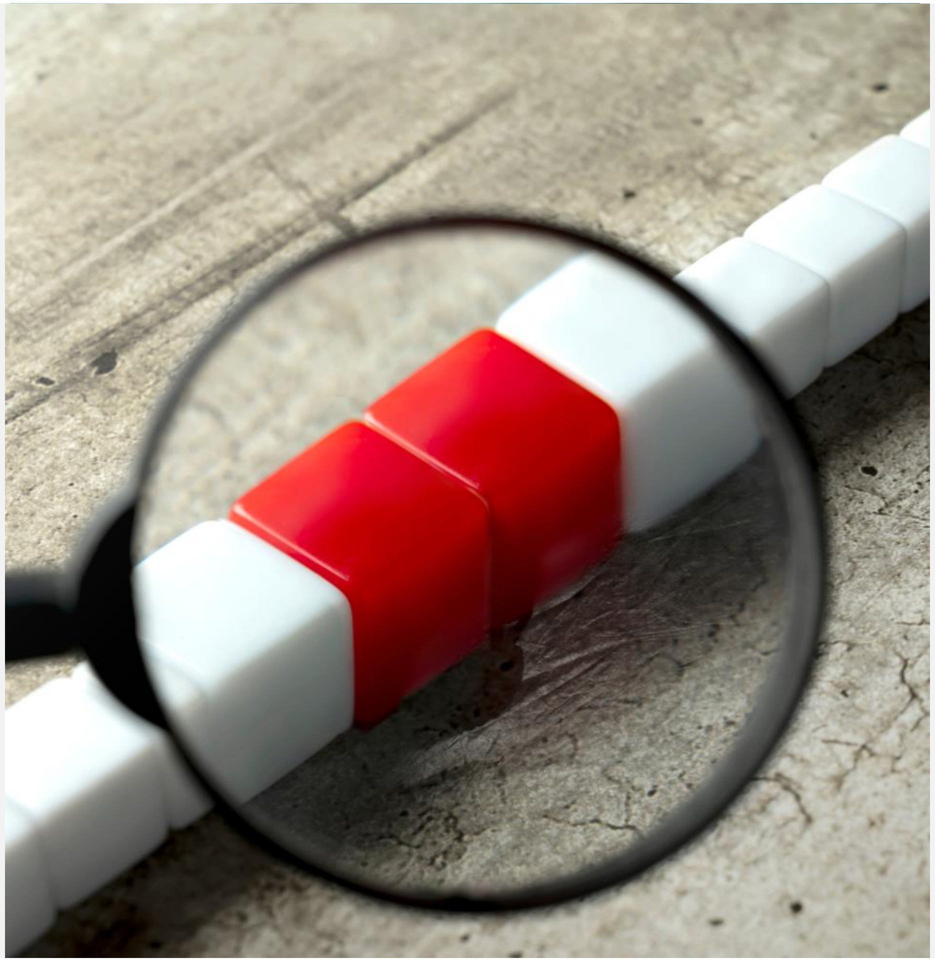
# FedDetect® Duplicate Notification for Check Services

# Purpose

FedDetect Duplicate Notification for Check Services offers subscribed banks of first deposit (BOFDs) early notice of potential duplicate checks processed by the Federal Reserve Banks.

Reporting is available for commercial* checks and Treasury checks that were deposited by your institution or by any other BOFD on the current day or within a specific date range.

* Includes both business and consumer checks







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# Key features

- Reports are available to all eligible Check 21 participants at no additional cost
- Requires minimal setup and maintenance, including self-service enablement
- Provides notification of matching U.S. Treasury checks for the current processing day against U.S. Treasury checks that were presented on the current day or the previous 60 calendar days
- Provides notification of potential duplicate commercial checks processed by the Federal Reserve Banks on the current day or up to the previous 8 banking days

*Note: FedDetect Duplicate Notification does not stop suspected duplicates from being presented to the paying bank or to the U.S. Department of the Treasury*

# Key capabilities

FedDetect Duplicate Notification provides early-morning and end-of-processing-day notice of potential duplicate commercial checks and Treasury checks across multiple payment channels within your institution and across BOFDs that deposit through the Federal Reserve Banks.

Reports are sent directly to your inbox via encrypted email and may be used at your discretion to supplement your own research and to take appropriate action.






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# Report comparison

| Treasury Checks (existing service) | Commercial Checks (new service) |
|---|---|
| Detects against Same BOFD and Other BOFDs | Detects against Same BOFD and Other BOFDs |
| Looks back 60 calendar days including current day, regardless of BOFDs | For **different BOFDs**, looks back 8 banking days including current day (to ensure images remain available)<br><br>For the **same BOFD**, looks back 2 banking days including current day (to reduce false positives on reclears) |
| Select MICR Fields, not including amount | Full MICR line, including amount |
| Amounts >= $0 | Amounts >= $50 |
| Shows front/back images of checks deposited with the same BOFD, but shows front only for other BOFD | Shows front/back images of checks deposited with the same BOFD, but shows front only for other BOFD |

## Use Case #1

# Check deposited at multiple BOFDs

### Problem

I need greater visibility into a check that my customer may have deposited at other institutions before depositing the same check at my financial institution.

### Solution

FedDetect Duplicate Notification provides notice of potential duplicate Treasury and commercial checks across any BOFD that deposits through the Federal Reserve Banks.




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## Use Case #2

# Cross-platform check deposits

| Problem | Solution |
| --- | --- |
| My financial institution is not able to detect checks that have been deposited multiple times using different deposit platforms (e.g., ATM, mobile, over-the-counter.) | FedDetect Duplicate Notification provides notice of potential duplicate Treasury and commercial checks across multiple payment channels within your own institution. |

## Use Case #3

# Operational errors in check deposits

| Problem | Solution |
|---|---|
| To help reduce loss of funds, I need to be alerted as soon as possible if operational errors resulted in duplicate deposits. | FedDetect Duplicate Notification can help identify operational or customer capture errors that resulted in duplicate deposits, which may help mitigate the loss of funds. |

# Getting started

**1**

Log into **FedLine Web®** or **FedLine Advantage® Solution**

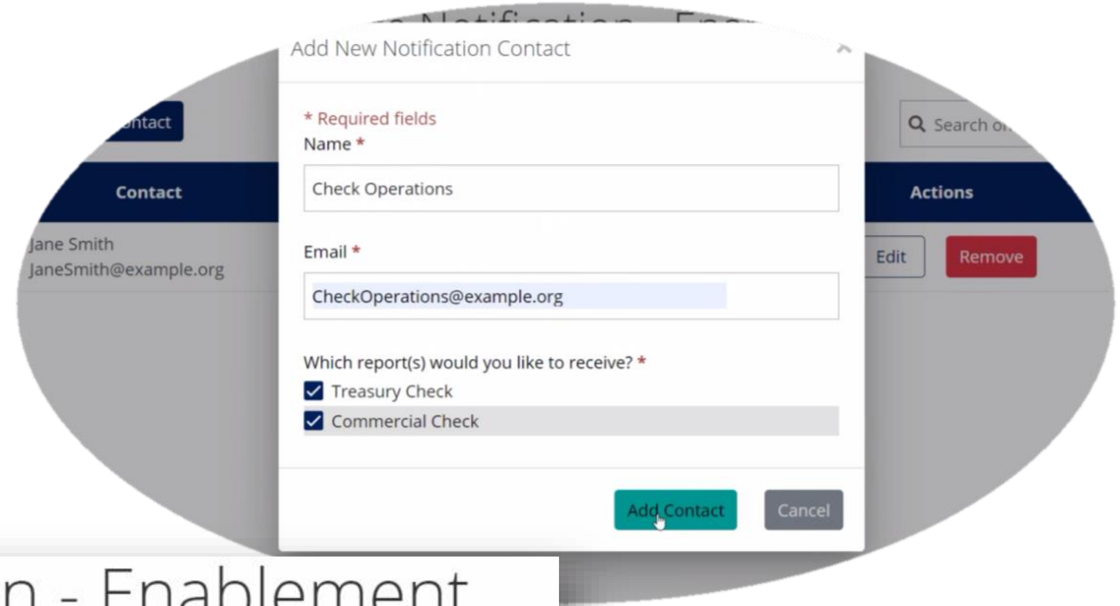
**2**

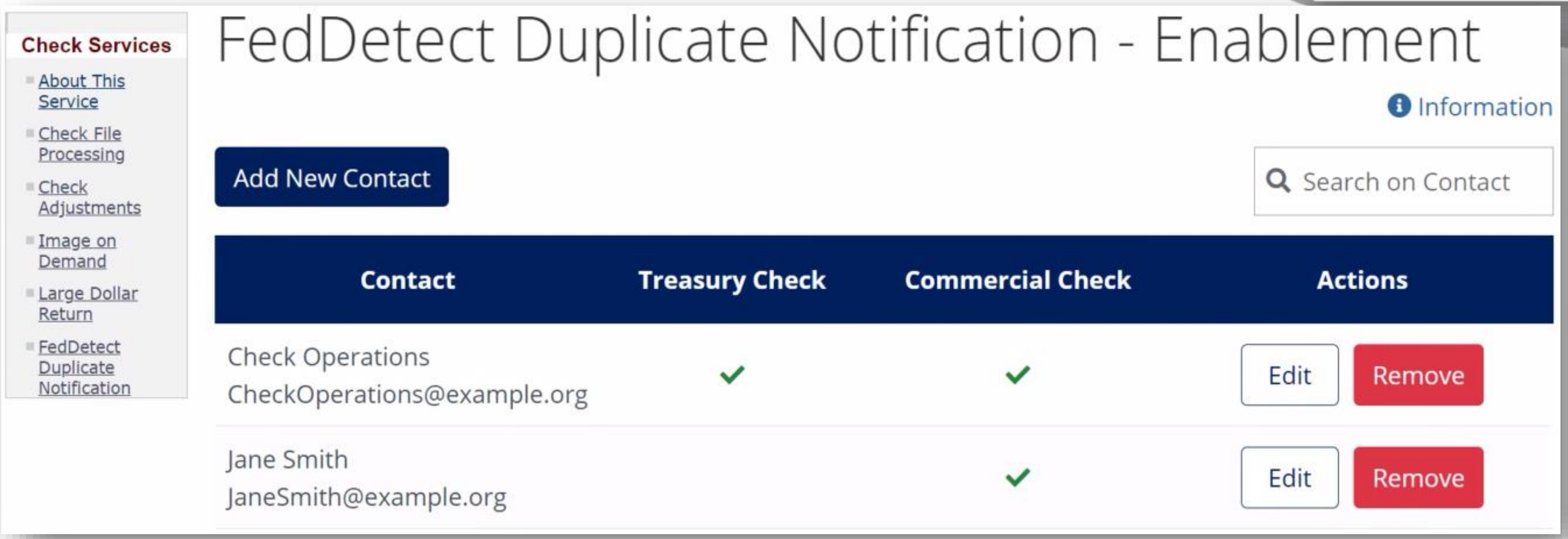
Click the **Check** tab and select the **FedDetect Duplicate Notification** link on the left-navigation menu

**3**

**Add contacts** and start receiving secure email notifications

# Self-service enablement





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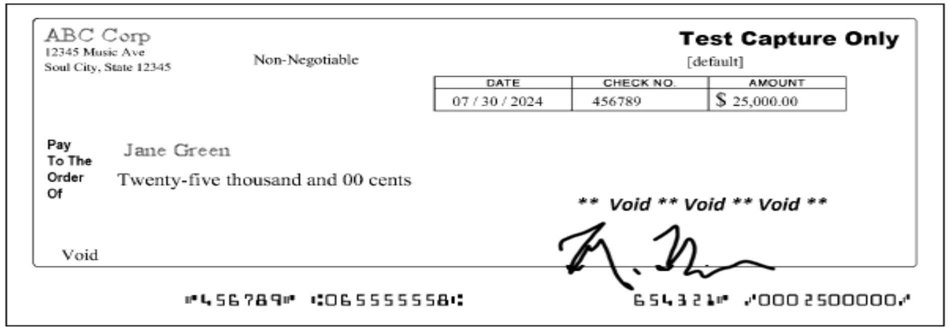
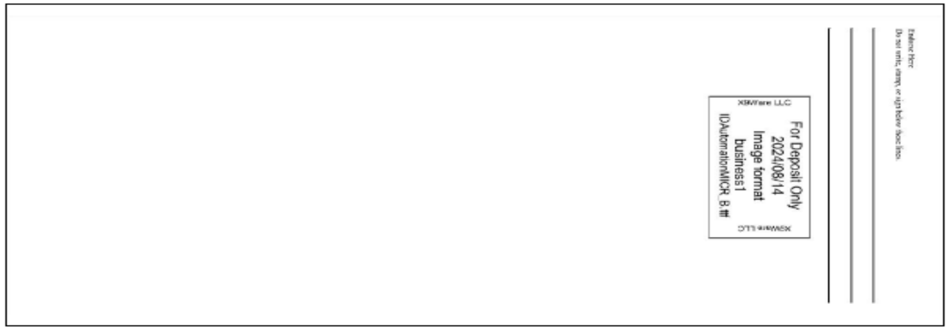
# Commercial check example

**FedDetect Duplicate Notification - Commercial Check Report**

Report Generation Date: 08/14/2024
Report Generation Time: 07:35 AM
BOFD ABA: 065555558
BOFD Name: FRB TEST BANK
Business Date: 08/14/2024
Checks processed by the Federal Reserve Banks
Images contained within this report are not negotiable and may not be used as either electronic checks or electronic returned checks

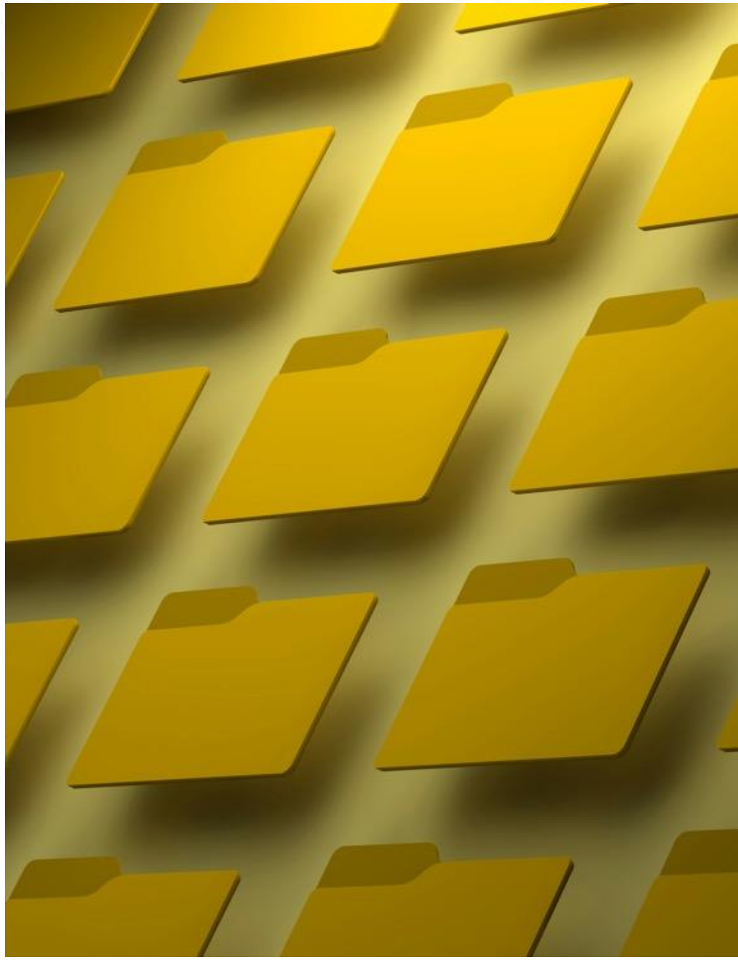
| Process Date | FRB Sequence Number | Dollar Amount | BOFD ABA | BOFD Date | BOFD Sequence Number | AUX On-Us | Payor ABA | Payor Account Number | Tran Code | Field 4 | EPC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 08/14/2024 | 16660945 | $25,000.00 | 065555558 | 08/14/2024 | 100003 | 456789 | 065555558 | 654321 | | | |



# Resources

- **Product page (FRBservices.org®):**
  FedDetect Duplicate Notification for Check Services
- **Operating Circular 3:**
  Collection of Cash Items, Appendix I: FedDetect Duplicate Notification
- **FedLine® Training:**
  FedDetect Duplicate Notification Service Guide



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# FedPayments® Reporter for Check Services

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# DFI Level – Payor and Return reports

**Check Advanced Notice - Payor Report** and **Check Advanced Notice – Return Report** allow internal depository financial institution (DFI) staff to receive advanced notice of items that will be presented by the Federal Reserve Banks; report will contain a listing of electronic forward/return items available at the time it is generated

- Late evening/early morning reporting allows time to follow up with customers to review and validate high-dollar activity
- Generated at the Check endpoint or at the Commingled CL RT level
- Delivered via encrypted email; same portal as FedPayments Reporter for FedACH Services
- Available in PDF (100 item limit) and Excel (20,000 item limit); sorted highest to lowest dollar w threshold option; cumulative reporting
- Can be scheduled at 4:30 p.m., 5:30 p.m., and on the hour between 4 p.m. – 2 p.m. ET M-F; also available at 6 a.m. ET on Saturday
- Setup by Agreement; FedMail® also needed (unless a commingled RT)

# Corporate Payor Report

Corporate Payor Report allows business customers to gain early access to review checks for potential alterations/suspicious endorsements and help facilitate timely returns; early delivery also helps corporate cash managers make informed funding decisions.

- Reporting available at 10 a.m. ET and 12 p.m. ET
- Generated at the account level; self-service setup requires DFI to be active on FedPayments Reporter for FedACH Services
- Delivered via encrypted email; same portal as FedPayments Reporter for FedACH Services
- Available in PDF (100 item limit) and Excel (20,000 item limit); sorted highest to lowest dollar; cumulative reporting
- Can be scheduled at 10 a.m. and/or 12 p.m. ET
- Activated by Agreement (requires both FedPayments Reporter ACH setup and activation)

# Sample Excel

**Check Advanced Notice - Payor Forward Report**

| | |
|---|---|
| Report Generation Date: | 01/14/2019 |
| Report Generation Time: | 6:00 |
| ABA: | 101001021 |
| ABA Name: | FRB TEST BANK |
| Business Date: | 01/14/2019 |

Checks processed by the Federal Reserve Banks

Report limited to forward items greater than or equal to $4000.00

| ECE Sequence Numb | Dollar Amount | On-Us | Payor Account Number | Field 4 | Payor ABA | EPC | Aux On-Us | BOFD ABA | BOFD Deposit Account Number | BOFD Deposit Branch | BOFD Payee Name | Received Date | Received Time | Presentment Created | Presentment Date | Presentment Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39001180 | $5,000.00 | 001 | 0112356789 | 02 | 101001021 | 1 | 0027977041 | 065123456 | BOFD43474012000040 | 25140 | COPPER | 01/12/2019 | 15:45 | Yes | 01/14/2019 | 01:00 |
| 39001128 | $5,000.00 | 001 | 0112356789 | 02 | 101001021 | 1 | 0027977041 | 065199999 | BOFD43474012000040 | 25140 | Copperxxxxxxxxx | 01/12/2019 | 15:26 | Yes | 01/14/2019 | 01:00 |
| 39001169 | $4,900.00 | | 00123456789012345 | | 101001021 | | 00045678901234 | 101099999 | BOFD43474012000029 | 25129 | TIGER | 01/14/2019 | 2:45 | No | | |

**Check Advanced Notice - BOFD Return Report**

| | |
|---|---|
| Report Generation Date: | 02/04/2019 |
| Report Generation Time: | 10:38 |
| ABA: | 065123456 |
| ABA Name: | FRB NEW ORLEANS TEST BANK |
| Business Date: | 02/04/2019 |

Checks processed by the Federal Reserve Banks

Report limited to returns greater than or equal to $0.00

Report limited to 4 Returns

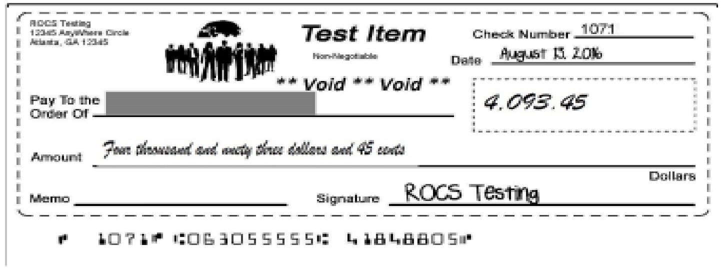
| FRB Sequence Numb | Dollar Amount | Return Reason | BOFD ABA | BOFD Date | BOFD Sequence Number | BOFD Deposit Branch | BOFD Deposit Account Number | BOFD Payee Name | On-Us | Payor Account Number | Field 4 | Payor ABA | EPC | Aux On-Us | Received Date | Received Time | Presentment Created | Presentment Date | Presentment Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 118730671 | $66,277.50 | A - Not Sufficient Funds | 065123456 | 02/01/2019 | 000000001116934 | | | | | 5900830810 | | 065555558 | | | 02/04/2019 | 09:44 | No | | |
| 118593112 | $66,277.50 | A - Not Sufficient Funds | 065123456 | 01/31/2019 | 000000001116934 | | | | | 5900830810 | | 065555558 | | | 02/01/2019 | 17:26 | Yes | 02/04/2019 | 02:00 |
| 118583703 | $66,277.50 | A - Not Sufficient Funds | 065123456 | 02/01/2019 | 000000001116934 | | | | | 5900830810 | | 065555558 | | | 02/01/2019 | 17:25 | Yes | 02/04/2019 | 02:00 |
| 118730902 | $50,000.00 | A - Not Sufficient Funds | 065123456 | 01/30/2019 | 000008470012670 | | | | 50656 | 1385068749 | | 065555558 | | | 02/04/2019 | 09:44 | No | | |

# Sample PDF

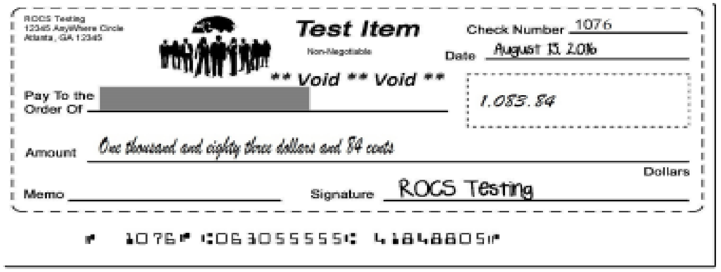
**Check Advanced Notice - Corporate Payor Report**
Report Generation Date: 08/17/2016
Report Generation Time: 10:00

ABA: 063055555
Business Date: 08/17/2016
Receiver Name: ROCS Testing
Account Number(s): 41848805
Checks processed by the Federal Reserve Banks
Images contained within this report are not negotiable and may not be used as either electronic checks or electronic returned checks

| ECE Sequence Number | Dollar Amount | On-Us | Payor Account Number | Field 4 | Payor ABA | EPC | Aux On-Us | BOFD ABA | BOFD Deposit Account Number | BOFD Deposit Branch | BOFD Payee Name | Received Date | Received Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6612641 | $4,093.45 | | 41848805 | | 063055555 | | 1071 | 061009999 | | A111 | Yard Processing | 08/16/2016 | 12:26 |




| ECE Sequence Number | Dollar Amount | On-Us | Payor Account Number | Field 4 | Payor ABA | EPC | Aux On-Us | BOFD ABA | BOFD Deposit Account Number | BOFD Deposit Branch | BOFD Payee Name | Received Date | Received Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6612640 | $1,083.84 | | 41848805 | | 063055555 | | 1076 | 061009999 | | A2211 | | 08/16/2016 | 12:26 |



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# Check Services roadmap*

**November 2021:**
FedDetect Duplicate Launch for Treasury Checks

**November 2024:**
FedDetect Duplicate Expanded to Commercial Checks and Self-enablement

FedPayments Reporter Check Advanced Notice Report API

FedDetect Duplicate Report API

FedDetect Duplicate FedLine® Solutions Reporting

Exception Resolution Service (ERS) Check Case Type

*Disclaimer: FRFS statements regarding its plans, directions, and intent are subject to change or withdrawal without notice at FRFS's sole discretion. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.

# FedDetect Anomaly Notification for FedACH Services



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# Purpose

FedDetect Anomaly Notification for FedACH Services is intended to detect and notify a financial institution of its FedACH **activity that is atypical** based on the financial institution's enabled criteria and either the financial institution's own historical activity or when compared to industry/operating rule metrics.



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# Meeting industry needs

"FedDetect Anomaly Notification will put timely information into the hands of financial institutions about anomalies that arise in day-to-day FedACH transactions. We know our customers are increasing their investment in risk management tools, and we're excited to offer another solution at no additional cost that helps them quickly address potential fraud and improve operational efficiency."

**Mark Gould**

*FRFS chief payments executive*

"It is important for originators to understand and establish a baseline for normal forward and return volumes of micro-entries and to recognize and react to activity outside of those levels. FedDetect Anomaly Notification provides a method for organizations using micro-entries to recognize and prevent suspicious activity. Additionally, one of the top issues that Nacha sees in Rules compliance is an originator's non-response to a Notification of Change (NOC). This service offers an opportunity to improve compliance with NOCs and increase the overall quality and efficiency of the ACH Network."

**Michael Herd**

*EVP of ACH Network Administration at Nacha*

Source: https://www.frbservices.org/news/press-releases/012524-new-ach-risk-management-service

## Use Case #1

# Notification of Change (NOC) alerts

### Problem

An ODFI receives the same NOC alert more than once outside of prescribed Nacha change timeframes, indicating that the Originator is not making required updates.

### Solution

The ODFI is alerted than an Originator has received multiple NOCs for the same Receiver. The ODFI is able to follow up with its Originator to provide education or take appropriate action.

## Use Case #1

# Notification of Change (NOC) alerts

## Notification Sample

The number of recurring NOCs detected for this RDFI and Receiver combination to this ODFI and Originator over the prior six weeks.

Company ID: **ABC123** Company Name: **Company A**

| Notifying RTN | Account # | Name | Change Code | First NOC | First NOC Age | Previous NOC | NOC Count (over prior 6 weeks) |
|---|---|---|---|---|---|---|---|
| 012345678 | 1A2B3C | Name A | C13 - Addenda Format Error | 04/04/2023 | 296 days | 01/25/2024 | 95 |
| 012345678 | 1A2B3C | Name B | C08 - Incorrect Receiving DFI Identification | 05/19/2023 | 251 days | 01/24/2024 | 47 |

## Use Case #2

# Same-day large-dollar debit alerts

### Problem

An ACH originator sends a debit of $900,000 in the final 4:45 p.m. ET same-day ACH window. This unusual high-dollar batch will settle on the current processing day and may put the RDFI at risk of overdraft on their Fed account.

### Solution

The RDFI receives a notification approximately 15 minutes before the deadline, providing awareness and valuable time to help ensure appropriate funding action is taken, if needed.

## Use Case #2

# Same-day large-dollar debit alerts

The summarized batch count, entry count and total debit amount by Originator of the highest-dollar batch(es) received in the third same-day window that exceeded the threshold.

### Notification Sample

**Total Debit Amount: $48,543,834.33    3-Month Average: $11,901,710.35    Variance: 308%**

| ODFI RTN | Company ID | Company Name | Batch Count | Entry Count | Debit Amount |
|---|---|---|---|---|---|
| 012345678 | ABC1234 | Company A | 44 | 14,295 | $33,110,965.06 |
| 012345678 | ABC5678 | Company B | 6 | 3,236 | $3,972,540.85 |

## Use Case #3

# Micro-deposits outside of baseline (forward and return)

### Problem

An Originator uses micro-entry deposits for account verification. It begins to experience anomalous volumes of forward or return micro-entry transactions, potentially indicating fraudulent activity.

### Solution

The ODFI is alerted that there is an anomalous amount of forward or return volumes compared to a baseline of normal activity. The ODFI is able to monitor and mitigate any fraud risk, as well as adhere to the Nacha rule for commercially reasonable fraud detection for micro-entries.

## Use Case #3

# Micro-deposits outside of baseline

(forward and return)

## Notification Sample

The percent difference between the Originator's forward/return Credit Count and 3 Month Daily Average.

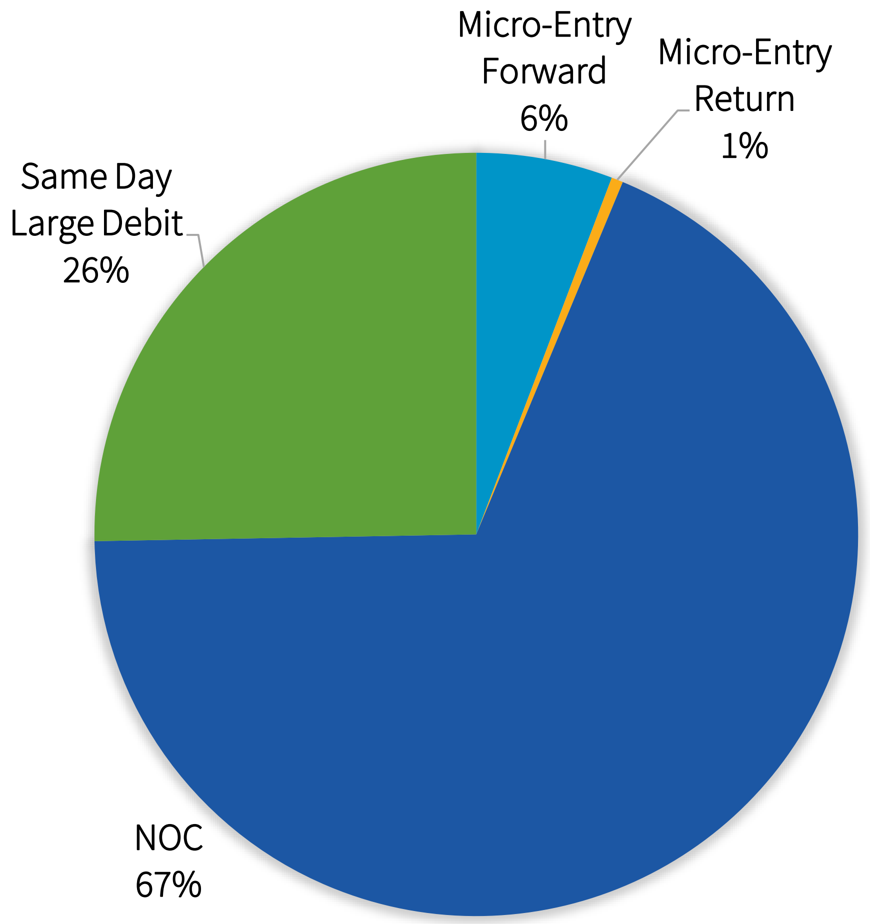
| Company ID | Company Name | Credit Count | Credit Amount | 3 Month Daily Average | Variance |
|---|---|---|---|---|---|
| ABC123 | Company A | 1,471 | $702.06 | 346 | 325% |

# FedDetect Anomaly Notification statistics

(as of 01.31.2025)

- Majority of activity in the Notification of Change (NOC) use case, followed by Same-day debit large dollar variance
- Micro-Entry Forward and Return activity spikes are anomalous activity, and the value of this use case is primarily Nacha compliance and fraud detection

NOTIFICATION BREAKDOWN BY USE CASE



# Getting started

1

Log into **FedLine Web® or FedLine Advantage® Solution**

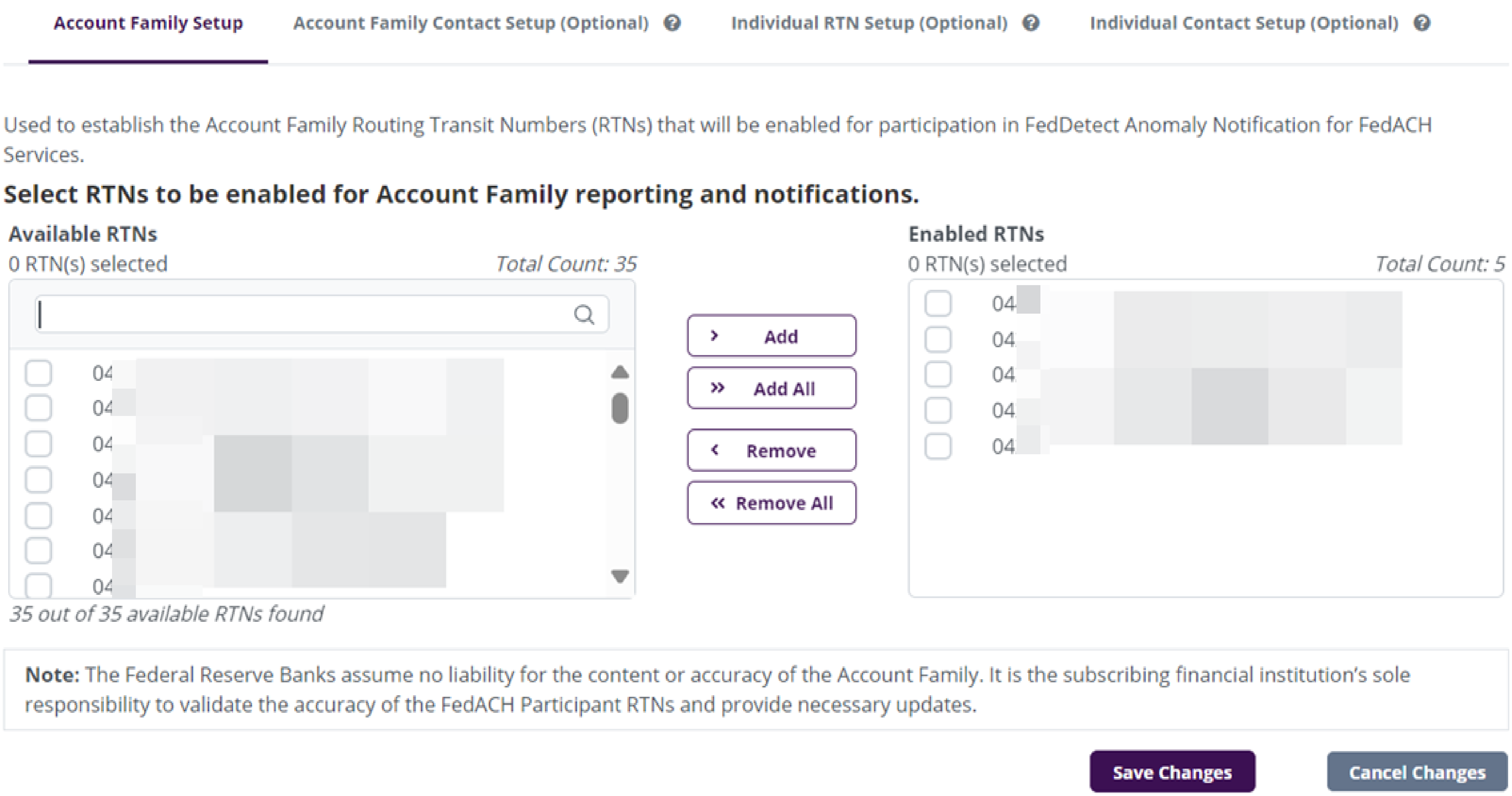
2

Click the **FedDetect Anomaly Notification** link under the **"Risk Management"** heading

3

**Add contacts** and start receiving secure email notifications

# Self-service enablement - Account Family



# Optional notification emails

## FedDetect Anomaly Notification

### Enablement

This self-service portal is used to enable this Routing Transit Number (RTN) for participation in FedDetect Anomaly Notification for FedACH Services.

RTN 031[redacted] Enabled

### Contact Setup (Optional)

Add Contact(s) to receive notifications for one or all use cases. If the RTN is enabled above, reports will be available when activity is detected regardless of Contact Setup

Add New Contact

| Contact ⇅ | NOC Monitoring | Same Day Debit Large Dollar Variance | Micro-Entry Forw Monitoring |
|---|---|---|---|

You do not have contacts set up for FedDetect Anomaly Notification. Click here to add a contact.

#### Add New Notification Contact

* Required fields

Name *

Email *

For which Use Case(s) would you like to receive notification? *

- ☐ NOC Monitoring
- ☐ Same Day Debit Large Dollar Variance
- ☐ Micro-Entry Forward Monitoring
- ☐ Micro-Entry Return Monitoring

Add Contact Cancel

Information

#### Use Case Descriptions

**NOC Monitoring**

Notifies your ODFI when the same correction or change (NOC) is received more than once outside of the prescribed Nacha change timeframe, indicating that your Originator may not be making required updates.

**Same Day Debit Large Dollar Variance**

Notifies your RDFI when high dollar debit batch totals from the 4:45 p.m. ET transmission deadline are outside of historical norms, helping to ensure awareness for any funding action.

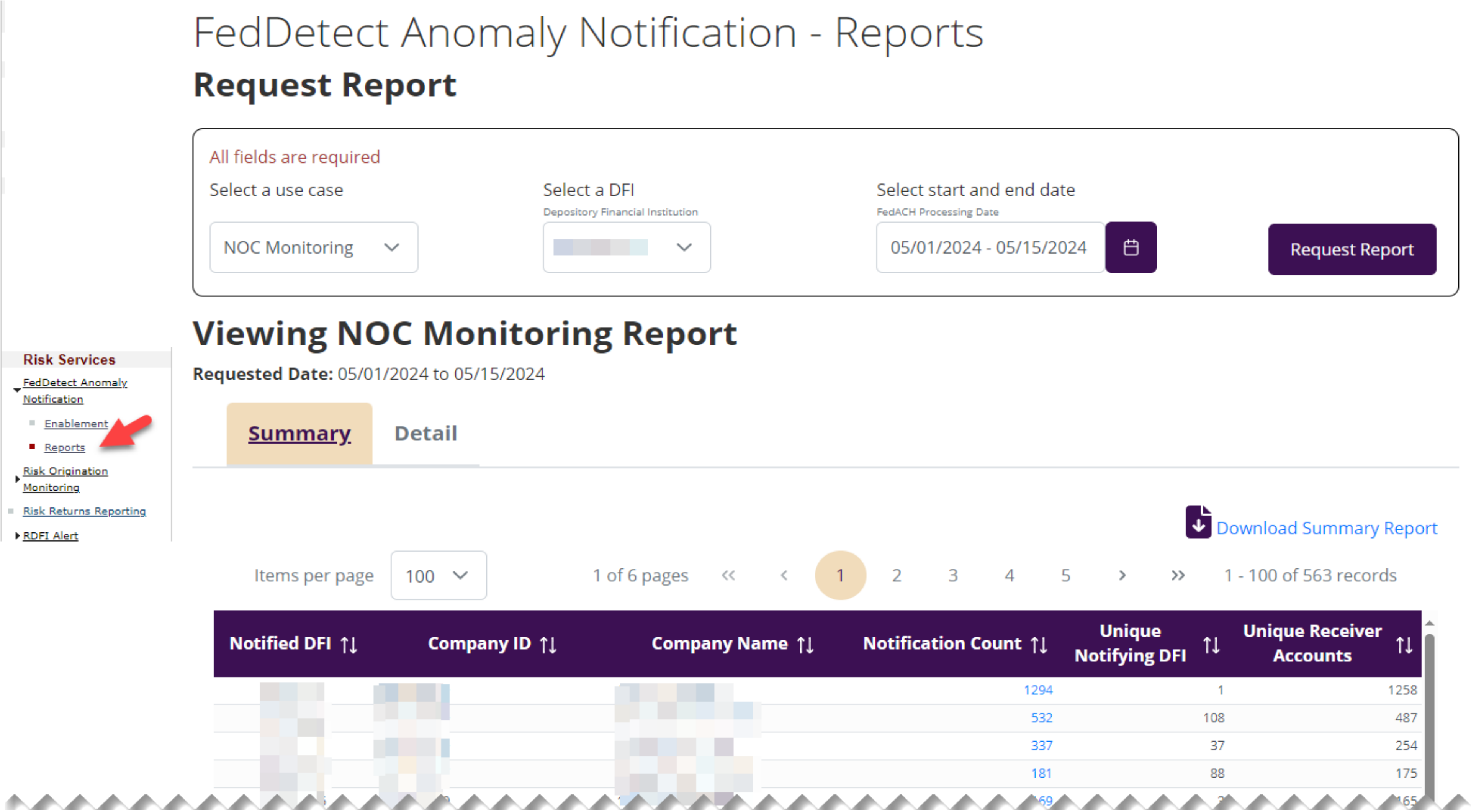
**Micro-Forward Monitoring**

Notifies your ODFI when Originators using small dollar entries for account verification purposes experience unusual forward volume activity, potentially indicating fraudulent activity.

**Micro-Return Monitoring**

Notifies your ODFI when Originators using small dollar entries for account verification purposes experience unusual return volume activity, potentially indicating fraudulent activity.

# NOC Monitoring summary level report





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# NOC Monitoring summary level report

## FedDetect Anomaly Notification - Reports

### Request Report

All fields are required

Select a use case: NOC Monitoring

Select a DFI (Depository Financial Institution): [illegible]

Select start and end date (FedACH Processing Date): 05/01/2024 - 05/15/2024

Request Report

### Viewing NOC Monitoring Report

**Requested Date:** 05/01/2024 to 05/15/2024

Summary | **Detail**

**Predefined Filter**

Filtered by **Notified DFI:** [illegible], **Company ID:** [illegible], **Company Name:** [illegible] Clear Filter

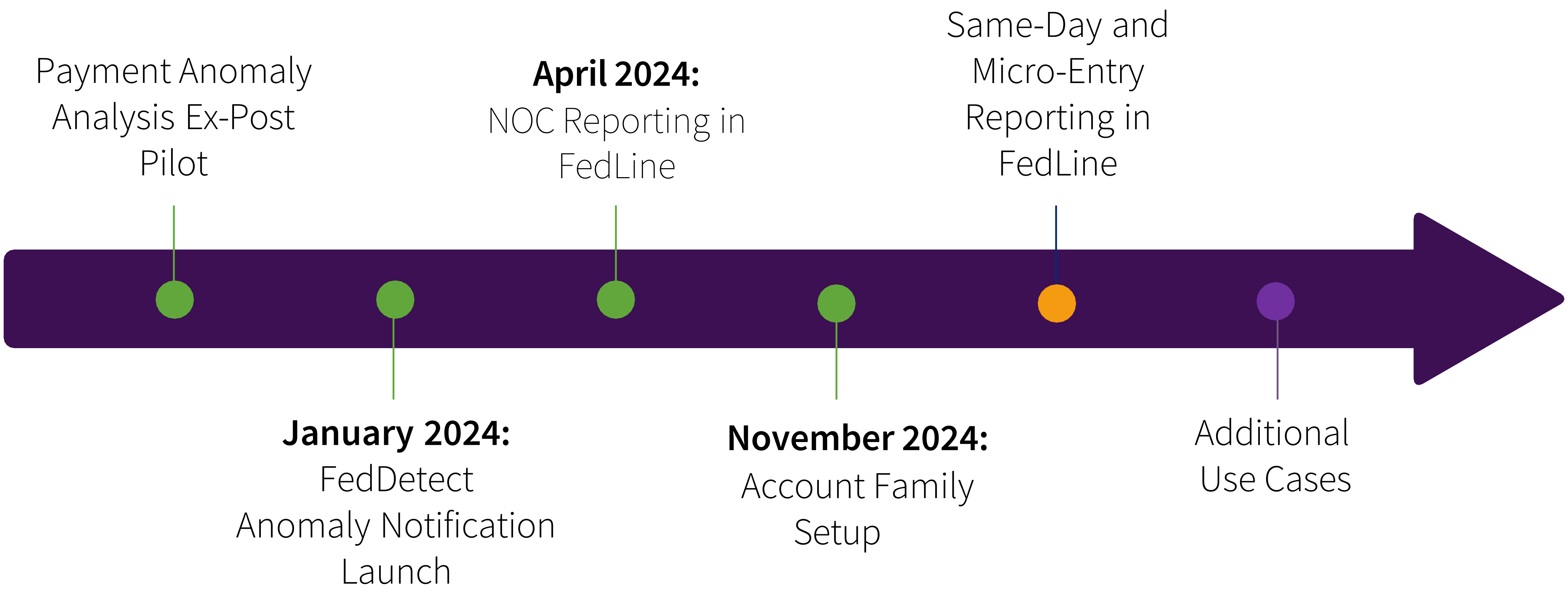
**Last NOC for Receiver only**

Download Detail Report

Items per page 100 | 1 of 6 pages | « ‹ 1 2 3 4 5 › » | 1 - 100 of 532 records

| Notified DFI | Company ID | Company Name | Notifying DFIs | Account Number | Receiver Name | Entry Discretionary Data | Entry Description | Change Code | Change Description | FedACH Processing Date | Trace Number | NOC Count | First NOC | First NOC Age | Previous NOC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | [illegible] | C05 | Incorrect Transaction Code | 05/07/2024 | [illegible] | 2 | 12/07/2023 | 152 | 04/05/2024 |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | [illegible] | C03 | Incorrect Routing Number and Incorrect DFI Account Number | 05/03/2024 | [illegible] | 2 | 01/05/2024 | 119 | 04/04/2024 |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | [illegible] | C03 | Incorrect Routing Number and Incorrect DFI Account Number | 05/15/2024 | [illegible] | 2 | 12/15/2023 | 152 | 04/15/2024 |

# FedDetect Anomaly roadmap*




*Disclaimer: FRFS statements regarding its plans, directions, and intent are subject to change or withdrawal without notice at FRFS's sole discretion. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.

# Potential future Retail use cases*

## After the Fact Analysis

- Originator Returns
  - Large return activity happening connected to an account from multiple institutions or multiple returns received within a short period of time
  - Multiple unauthorized returns (including stop payments) for the same company ID/Account
- CCDs to Consumer accounts
  - Large dollar CCD credits being sent to accounts that have previously had either no activity or only Consumer SEC activity
- PPDs to Corporate accounts
  - PPD credits being sent to accounts that only have Corporate SEC activity
- New SEC to existing accounts
  - Identify first time an account with history has received a new SEC code

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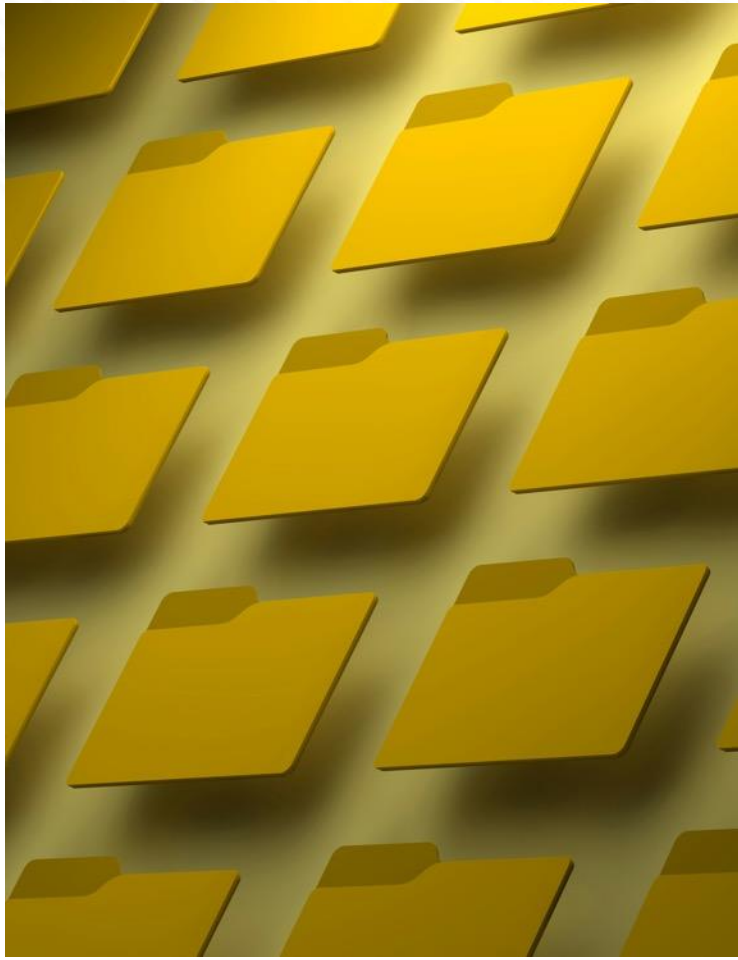
# Resources

- Product page (FRBservices.org®):
  FedACH Risk® Management Services: FedDetect Anomaly Notification for FedACH® Services
- Operating Circular 4:
  Automated Clearing House, Appendix I: FedDetect Anomaly Notification
- FedLine® Training:
  FedDetect Anomaly Notification Service Guide



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