THE **FEDERAL RESERVE**FedPayments Improvement





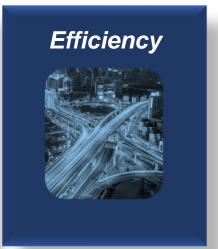
Payments System Improvement

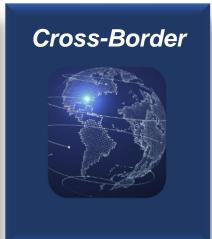
Overview of Role and Purpose

- Federal Reserve Financial Services (FRFS) Vision: Deliver a contemporary and trusted payment system that works for everyone
- Payments System Improvement Mission: To facilitate material, end-to-end advances in the U.S. payment system that promote integrity, efficiency, and accessibility









Collaboration with the Payments Industry

Fraud Landscape Summary

Biggest challenges include both "old" and "new" forms of fraud attacks

Rise of Historic
Threats



Check Fraud
Account Takeover

Evolving Threats



Scams
Synthetic Identities
Money Mules
New Account Fraud

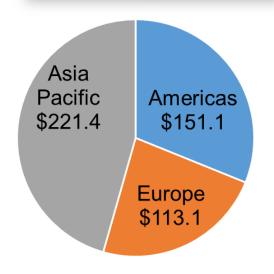
Future Concerning
Threats



GenAl Deep Fakes Scripted Attacks

Fraud Landscape Loss Summary (2023)

Global Fraud Loss \$485B





Loss Increase Over 2022



Top Scam
Losses







iC3 – Loss Report

Federal Trade Commission – Report Fraud Data

Nasdaq Verafin - 2024 Global Financial Crime Report



Evolving Threat: Scams

Scams Occur Across Multiple Products & Channels



Evolving Threat: Scams

Many Factors Contribute to Significant Scam Growth



Data Breaches
Increased Availability
of Personally Identifiable
Information (PII)



Shift to Digital Channels



Technology Advances



Convenience of Digital Transactions



Emotional Vulnerabilities

SCAMS - A GROWING PROBLEM

Innovative Fraud Schemes Can Defeat Traditional Fraud Controls



Criminal Groups
Increasingly Target
Individuals & Businesses



Instant Payments
Introduction Encourages
Greater Urgency



Fraudulent Authorized Push Payments Often Are Harder to Identify

SCAMS - ADDRESSING THE PROBLEM

Scams Definition & Classification Work Group



Challenge

- Multiple operational definitions of scams
- Lack of necessary detail in existing classification approaches

Response

- Align on an industry-recommended operational scam definition
- Build a classification structure that is detailed enough to document scam nuances and tactics

Industry Value

- A shared understanding of the term "scam" and the different scam types
- **✓** More consistent scam reporting
- Insights to help improve mitigation

Work group participants are listed on FedPaymentsImprovement.org

SCAMS - A GROWING PROBLEM

Define Scams to Fight Scams

scam

[skam] noun.

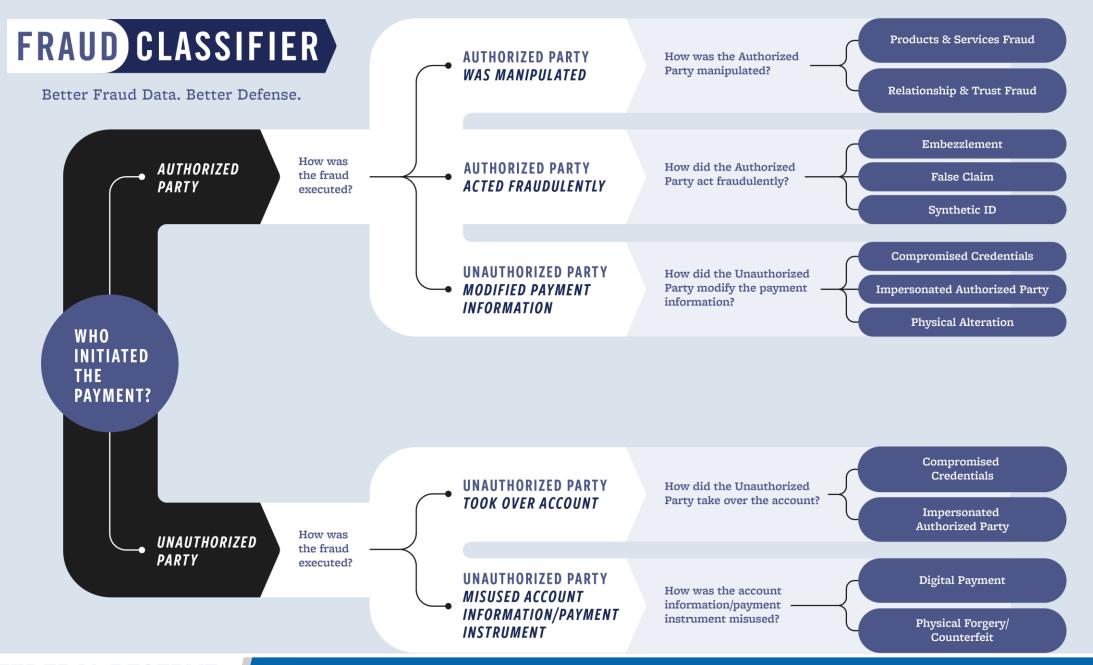
the use of deception or manipulation intended to achieve financial gain.

- Straightforward definition
- Applies to multiple scam types
- Promotes a common understanding
- Help advance more consistent identification and classification
- Can benefit multiple industries

SCAM CLASSIFIER

The ScamClassiferSM model supports consistent and detailed classification, reporting, analysis and identification of trends in scams. It uses a series of questions to differentiate and classify scams by categories and types, and provides a view of the full impact of scams by including cases that resulted in authorized payments, as well as unauthorized payments from account access. The model also can be used to capture attempted scams.

SCAM DEFINITION: the use of deception **AUTHORIZED** SCAM CATEGORY: or manipulation PAYMENT: Products or Services intended to Authorized party achieve financial made a payment Buying or selling gain products or services Merchandise Investment STEP 1: STEP 2: STEP 3: STEP 4: Property Sale or Rental **CONFIRM SCAM** CONFIRM AUTHORIZED OR **IDENTIFY THE** SELECT THE Romance Impostor UNAUTHORIZED PAYMENT SCAM CATEGORY SCAM TYPE Does the case - YES \rightarrow How was the Select the scam What action Government Impostor resulted from appear to authorized party type based on the meet the scam the scam? deceived or deception used Bank Impostor definition? manipulated? **Business Impostor** Relative/Family/Friend Someone posing as a business, organization, Other Trusted Party vendor, agency or other "ScamClassifier" is a service mark of the Federal Reserve Banks. A UNAUTHORIZED trusted party related to financial services products that are offered to financial institutions by PAYMENT: Refer to FraudClassifier the Federal Reserve Banks is available at FRBservices.org. **Authorized Party** to determine payment SCAM CATEGORY: enabled unauthorized fraud classification. Relationship and Trust account access



Evolving Threat: Scams

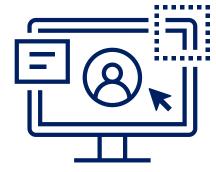
How Do We Slow Down the Fraudsters?



Education



Fraud Information Sharing



Technology

SCAMS - ADDRESSING THE PROBLEM

Scams Information Sharing Work Group



Challenge

- Fraudsters repeat the same tactics across organizations
- Can be challenging to identify effective, timely mitigation approaches
- Information sharing is incomplete, leading to fragmented approaches and sharing models

Response

- Develop recommendations for fraud information sharing approaches
- Will consider data types, methods and benefits of information sharing

Industry Value

- Stronger management of scams
- Faster reaction to fraud trends
- Enhanced industry awareness

Work group participants are listed on FedPaymentsImprovement.org

SCAMS - ADDRESSING THE PROBLEM

Information Sharing Can Help Mitigate Fraud Losses



Consumer Awareness of Current Fraud Trends Reduces Victimization



Broader Access to Fraud Information Helps Train Fraud Models to Proactively Identify Suspicious Transactions



Sharing of Information Across Industries Can Help Mitigate Fraud Across Organizations

FedDetect® Anomaly overview

FedDetect Anomaly Notification for FedACH® Services helps your institution identify anomalous activity and supplements your fraud detection and alerting tools, by:

- 1) detecting atypical activity for the current day, using
 - baselines established for your financial institution's historical activity, or
 - by comparing your ACH transactions to industry rules; and
- 2) allowing your institution to receive notifications via secure email.



FedDetect® Anomaly Notification global use cases

Same Day Large Dollar Debit alerts

- Intended for DFIs who receive high dollar debit batches that will settle on the current processing day, potentially requiring funding of Fed/correspondent accounts late in the day
- Starting March 19, 2021, ODFIs were permitted to submit Same Day ACH files until 4:45 p.m. ET; Nacha further increased the per-payment maximum for Same Day ACH transactions from \$100,000 to \$1 million effective March 18, 2022
- While these changes support innovation and accessibility to Same Day ACH, they also add new challenges for DFIs who may receive late day debits
- Notifications of high dollar debits will help provide awareness and time to ensure appropriate funding action is taken

Notification of Change (NOC) alerts

- Intended for ODFIs who receive the same NOC more than once outside of prescribed Nacha change timeframes, indicating that the Originator is not making required updates
- NOCs continue to be an industry pain point, representing between a third to a half of total violations processed by Nacha
- By making ODFIs aware that 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

Micro-Deposits (Forward and Return) outside of baseline

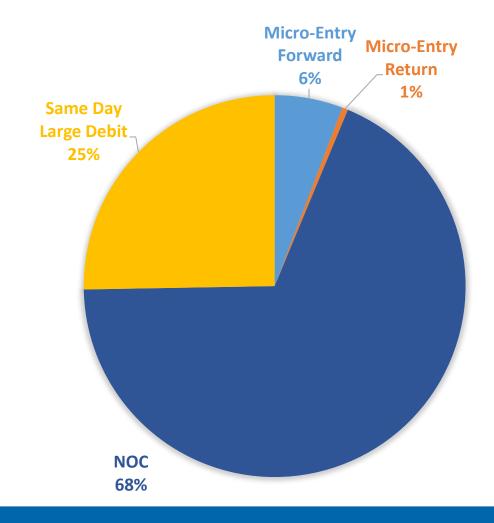
- Intended for ODFIs whose
 Originators use these small dollar
 entries for account verification and
 experience anomalous volumes of
 forward or return items, potentially
 indicating fraudulent activity
- A new Nacha rule for micro-entries became effective March 17, 2023; this new rule requires commercially reasonable fraud detection for micro-entry origination, including at a minimum monitoring forward and return volumes against a baseline of normal activity

FedDetect® Anomaly Notification Stats

Over 1,350 enabled customers in first nine months since launch

- 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 can identify potential anomalous activity and the value of this use case is primarily Nacha compliance and fraud detection

NOTIFICATION BREAKDOWN BY USE CASE



Easy sign-up...

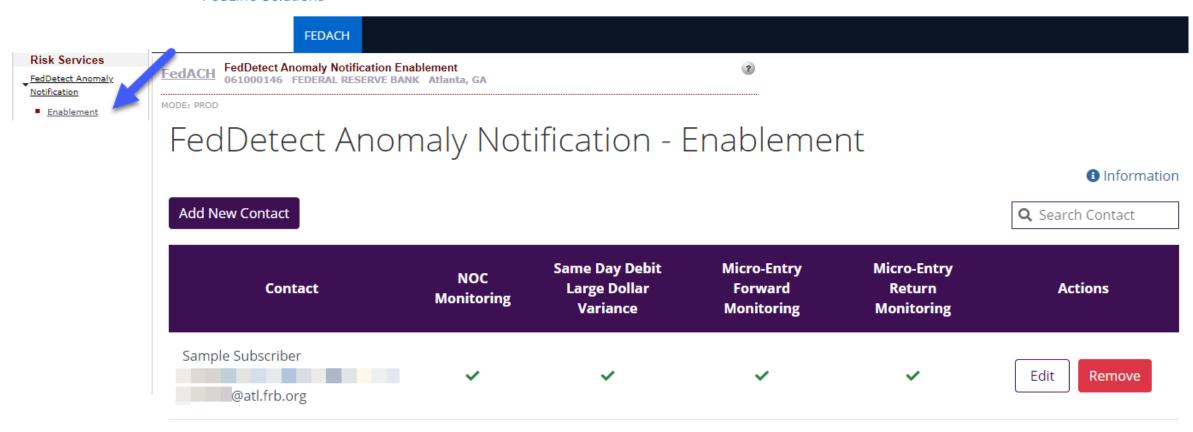
- There is no additional cost for current customers to enable FedDetect Anomaly
- Existing FedACH Subscribers may self-enable notifications:

Log into your FedLine Web® or FedLine Advantage® Solution Click on the FedDetect Anomaly Notification link under the "Risk Management" heading Add contacts and start receiving secure email notifications

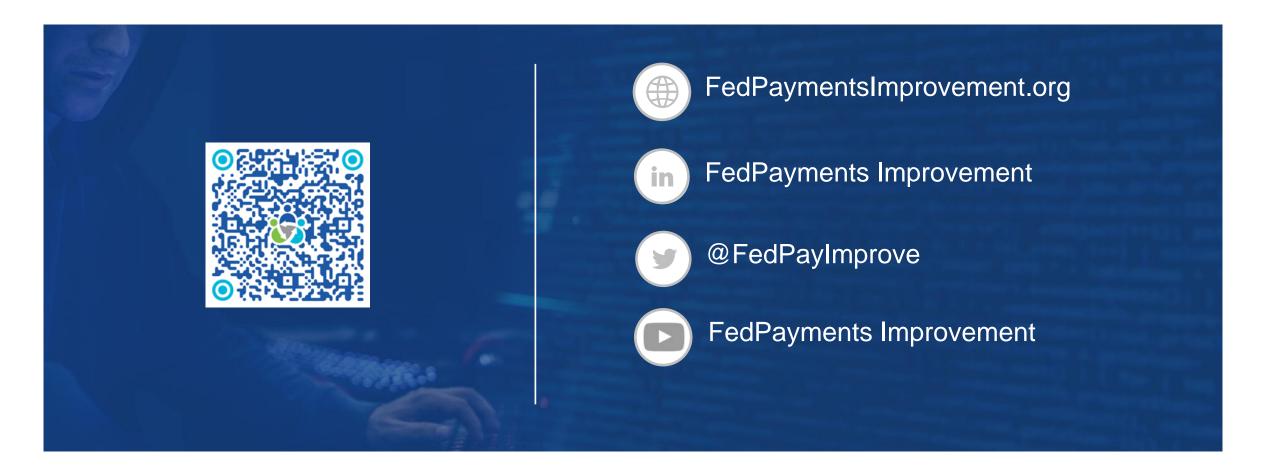
 Customers without FedACH Information Services access or that wish to sign up multiple RTNs may complete and submit Part 6H of the FedACH Participation Agreement to the Support Center to enable these RTNs

Self-service enablement in FedLine

THE FEDERAL RESERVE FedLine Solutions



Get Connected. Stay Engaged.



Notification of change (NOC) use case



Improve your operations by monitoring when your institution receives the same NOC more than once outside of prescribed Nacha-designated change timeframes, indicating that an originator has failed to make updates

- NOCs continue to be an industry pain point, representing between a third to a half of total violations processed by Nacha
- By making ODFIs aware that 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

Same-day debit large dollar use case



Gain insight on your Fed account when unusual high-dollar debit batches will settle on the current processing day in the final same-day window and potentially require settlement account funding

- Starting March 19, 2021, ODFIs were permitted to submit Same Day ACH files until 4:45 p.m. ET; Nacha further increased the per-payment maximum for Same Day ACH transactions from \$100,000 to \$1 million effective March 18, 2022
- While these changes support innovation and accessibility to Same Day ACH, they also add **new challenges** if your institution receives late day debits
- Notifications of high dollar debits will help provide awareness and time to help ensure appropriate funding action is taken

Micro-entry forward and return use case



Monitor velocity of forward and return micro-entries for originators that use these small-dollar entries for **account verification purposes**, and potentially mitigate your institution's **fraud risk**

 Nacha rule for micro-entries became effective March 17, 2023; this new rule requires commercially reasonable fraud detection for microentry origination, including at a minimum monitoring forward and return volumes against a baseline of normal activity

Scams Definitions and Examples

KEY TERMS AND DEFINITIONS

Authorized Payment

A payment entered or requested by a legitimate account owner or user from the owner's account.

Unauthorized Payment

A payment entered or requested by a third party who has no legitimate right to move money from another entity's account.

SCAM CATEGORIES AND DEFINITIONS

Products or Services

A situation involving a transfer of funds in exchange for a product or service, irrespective of the nature of the relationship between the two parties, in which the receiver of the funds does not deliver the product or service or delivers a grossly inferior product or service than the one advertised or promised.

Relationship and Trust

A situation involving a transfer of funds to a trusted party, or an impostor acting as a trusted or authoritative party, where there is no expectation or promise of merchandise in exchange for the transferred funds. The seemingly trustworthy party can be an existing or emerging relationship or a party pretending to be an authority or reputable company.

SCAM TYPES DEFINITIONS AND EXAMPLES

Merchandise Scam

Purchase of merchandise that is never delivered or is substantially different from the advertised description or quality.

Scam examples: Online purchase scams, puppy and pet scams, and sales of fake sports or concert tickets, counterfeit prescription drugs or fake anti-aging remedies.

Investment Scam

An investment in a financial asset with expectation of a high return rate based on false promises.

Scam examples: Investments in fake business opportunities, fake cryptocurrency purchases or buying precious metals that do not exist.

Property Sale or Rental Scam

The purchase or rental of a home, apartment, or property that was fictitious, was not made available, or was not rightfully owned by the offering party or agent.

Scam examples: Making a down payment for a new home purchase or rental that is not for sale/rent by the real owners. Paying for a fake rental property offered online.

Scams Definitions and Examples

SCAM TYPES DEFINITIONS AND EXAMPLES

Romance Impostor Scam

The use of a fictitious online identity to establish a trusted relationship (romance or friendship) with another person with the intent to request money by using a false situation to create a sense of urgency.

Scam examples: Travel expenses requested for a visit to further the relationship, money requested for medical bills, car or home repairs, family emergencies or to access restricted funds.

Government Impostor Scam

A person poses as an employee of a government agency, law enforcement, or a trusted authority like a court representative to deceive an authorized party to make a payment or provide sensitive information often based on the potential for negative consequences like arrest, financial penalties or reputational harm.

Scam examples: IRS back taxes, arrest warrant issued, agency penalties or fines, government refund offers, Medicare/benefits coverage offers.

Bank Impostor Scam

A person poses as a legitimate financial institution, bank department or bank representative to deceive individuals or businesses into revealing confidential banking information or as a bank impostor, instructing a customer to make a payment to protect the customer's money.

Scam examples: Posing as a fraud department, bank security department or bank customer service representative to request funds be moved to a secure account, request login credentials or obtain a one-time passcode from an account holder.

Business Impostor Scam

A type of deception where an individual poses as a legitimate business, company or brand to deceive a victim into making payments or providing sensitive information.

Scam examples: Tech support, business email compromise (BEC), lottery/prizes, employment offer, utility bill payment offer, student loan forgiveness, adoption scam, advanced fee scam, fake healthcare offers, prepaid funeral expenses, CEO/treasurer impostor, mortgage/title company down payment or closing costs, fake invoice payment scam, airline/travel offer scam, shipping/delivery company scam.

Relative/Family/ Friend Scam

A person poses as a family member or someone representing a family member who contacts a relative to request money to help the family member based on a false situation or emergency.

Scam examples: Grandparent scam, fake kidnapping, fake travel issues or accidents, fake arrests.

Other Trusted Party Scam

A person poses as a specific role to engage another person to request money based on a false expectation.

Scam examples: Charity/disaster relief impostor scams, babysitter scam (posing as a potential customer).

Additional information about the connections between the ScamClassifier and FraudClassifier models is planned for publication in the third quarter of 2024.

Learn more about the ScamClassifier model at FedPaymentsImprovement.org