



CLASSIFYING ACCOUNT TAKEOVER FRAUD USING THE FRAUDCLASSIFIERSM AND SCAMCLASSIFIERSM

Account takeover fraud can vary in terms of how criminals harvest credentials, obtain account access, and monetize the account. For financial institutions, more consistent classification of these incidents supports account takeover fraud prevention and detection efforts.



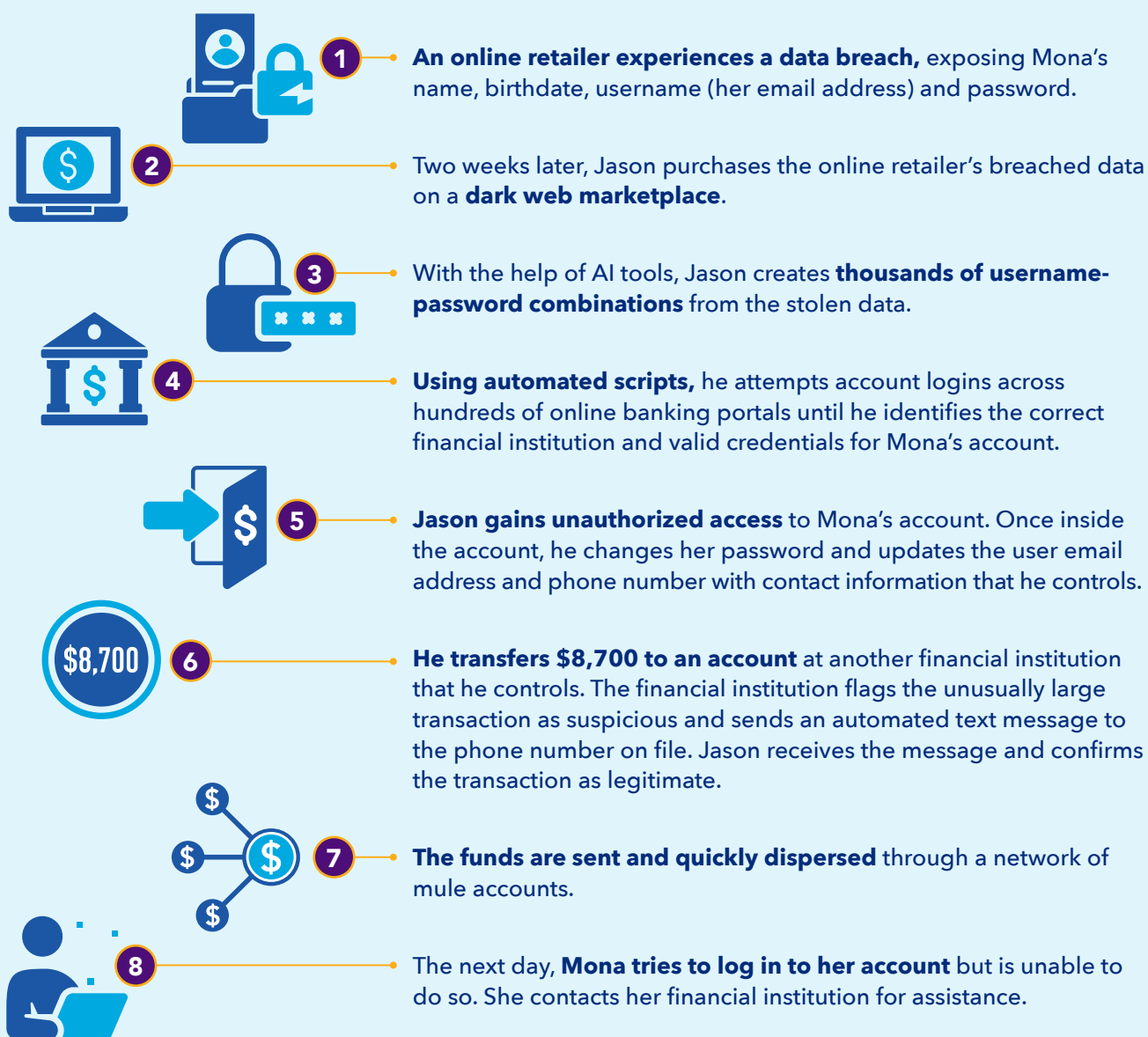
The [FraudClassifier](#) and [ScamClassifier](#) models are voluntary classification structures that were developed to help address the industrywide challenge of inconsistent classifications for fraud and scams. They enable payments stakeholders to classify fraud and scams independently of payment type, payment channel or other payment characteristics. The FraudClassifier model can be used as a standalone classification structure applied for fraudulent payments resulting from account takeover fraud. In instances where the account takeover fraud incident was enabled by a scam, the ScamClassifier model can also be used. Usage of the models can help organizations improve account takeover fraud mitigation through better identification of fraud and scam types, enhanced reporting, and more tailored customer education.



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USING THE FRAUDCLASSIFIER MODEL TO CLASSIFY PAYMENTS FRAUD RESULTING FROM ACCOUNT TAKEOVER

In the following hypothetical scenario, Jason gains access to Mona's financial institution account using compromised personal information obtained via a data breach:

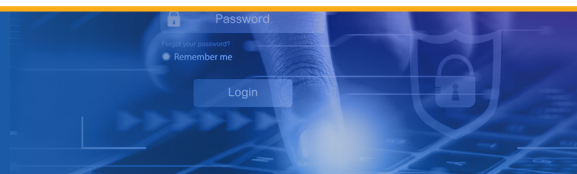
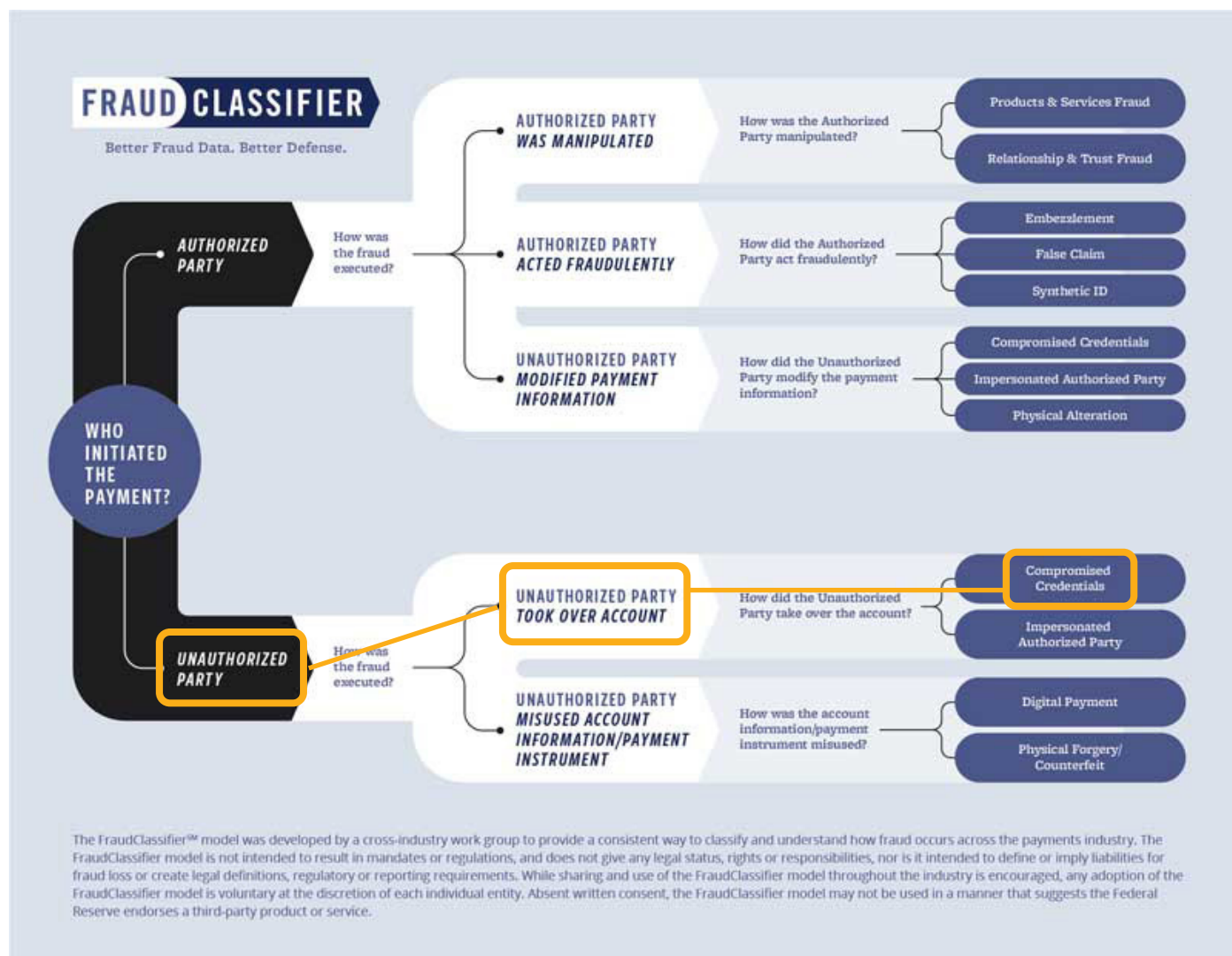


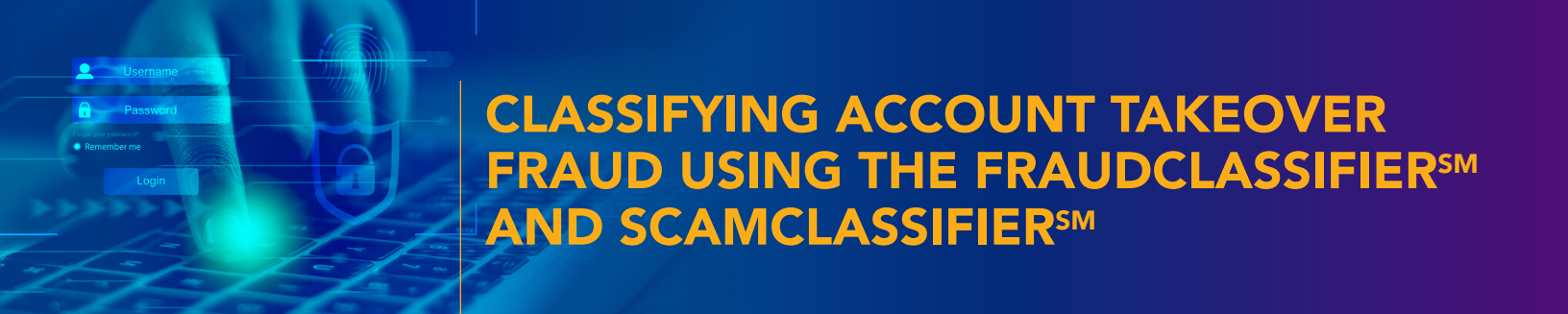


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Let's begin classification of the incident using the FraudClassifier model.

- **Step 1:** Determine whether an authorized or unauthorized party initiated the payment. In this scenario, Jason is not an authorized party on the account. Therefore, an unauthorized party initiated the payment.
- **Step 2:** Confirm how the unauthorized payment was executed. In this case, Jason took over the account.
- **Step 3:** Assess how the unauthorized party took over the account. Jason purchased Mona's account credentials on the dark web following a data breach. The fraud was executed using compromised credentials.



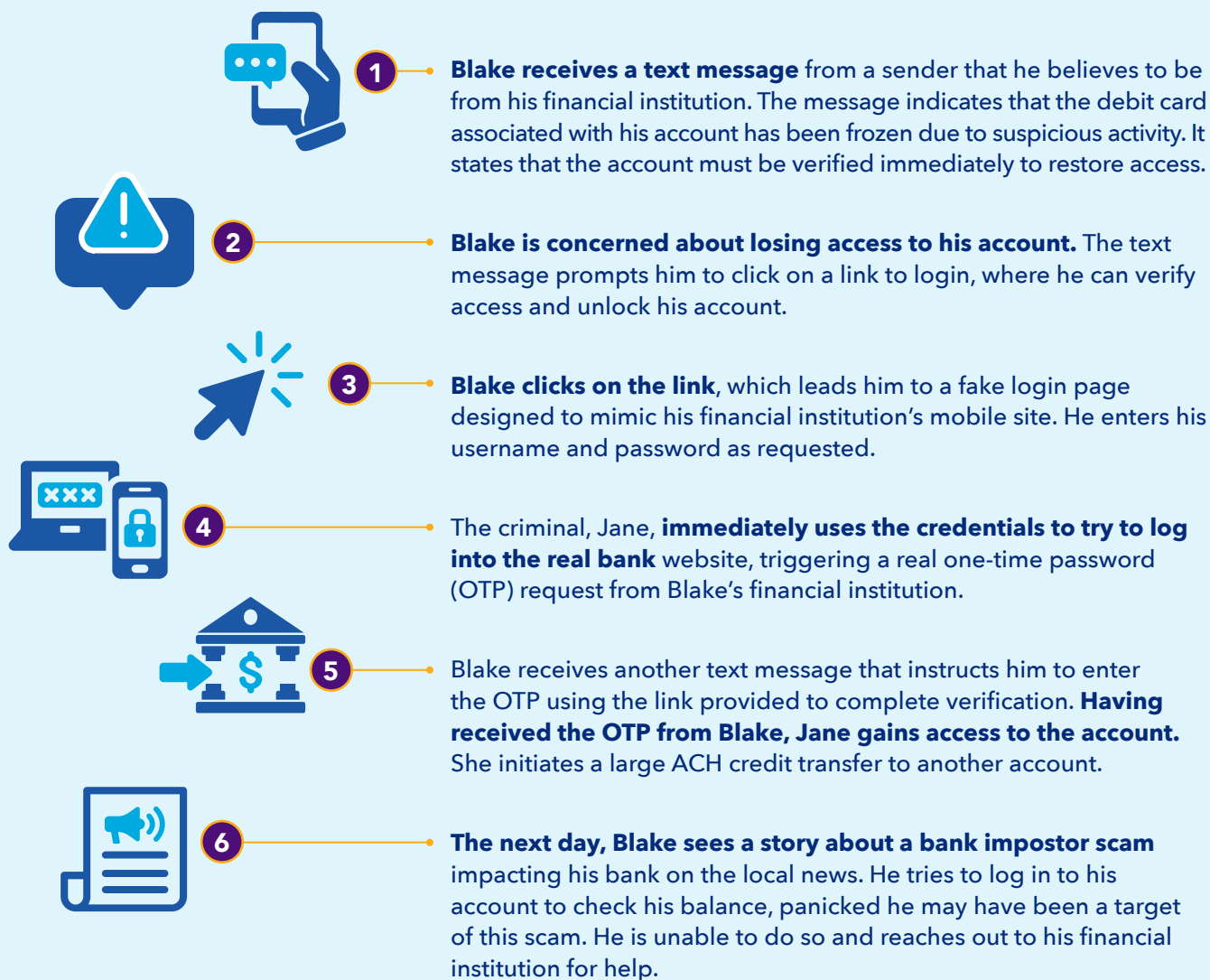


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The ScamClassifier model can be used alongside the FraudClassifier model to classify payments fraud when the root cause of the unauthorized account access was a scam. The user can start with either model depending on their preference.

USING BOTH THE FRAUDCLASSIFIER AND SCAMCLASSIFIER MODELS TO CLASSIFY AN ACCOUNT TAKEOVER FRAUD INCIDENT

In this example, a bank impersonation scam enables a criminal to gain access to John's financial institution account and make an unauthorized payment:



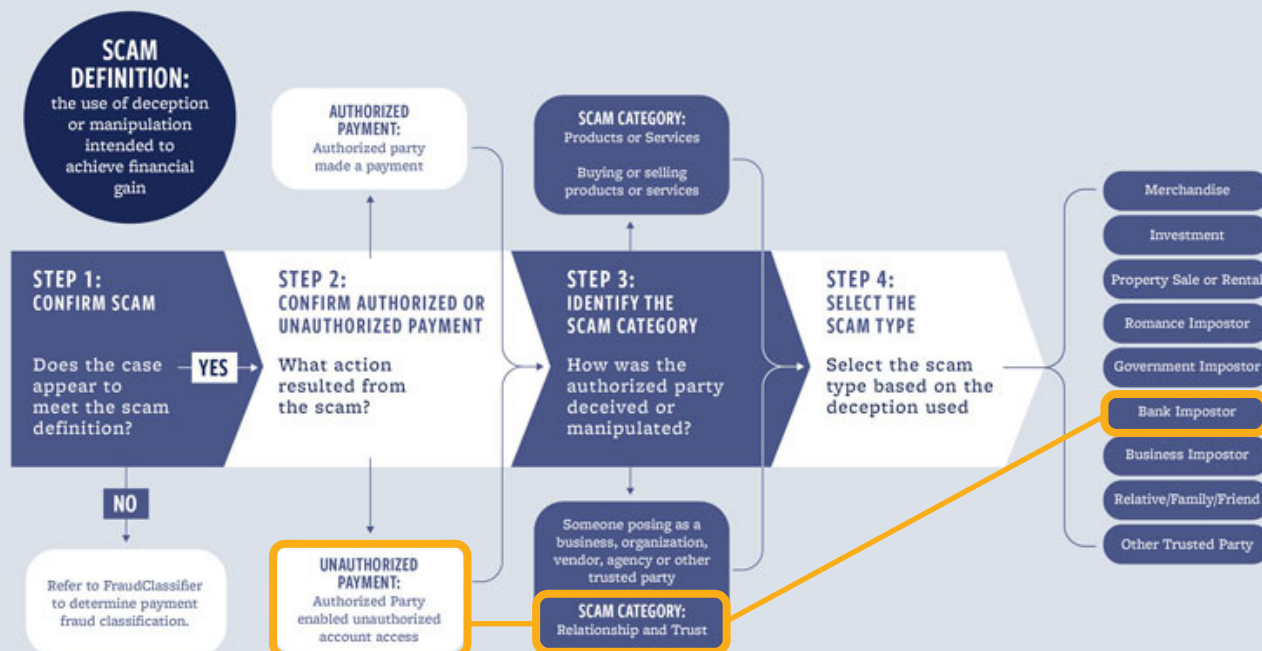
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Let's begin classification of the incident using the ScamClassifier model.

- **Step 1:** Confirm whether the scenario meets the definition of a scam, or “the use of deception or manipulation intended to achieve financial gain”. Since Jane deceived Blake into providing his account credentials and OTP, this incident meets the definition of a scam.
- **Step 2:** Determine whether the payment was authorized or unauthorized. In this scenario, an authorized party enabled unauthorized account access, resulting in an unauthorized payment.
- **Step 3:** Assess the appropriate scam category. In this example, the scam category is “relationship and trust” because the criminal leveraged the user’s inherent trust in their financial institution to carry out the scam.
- **Step 4:** Label the scam type as “bank impostor” because Jane pretended to be Blake’s financial institution.

SCAM CLASSIFIER

The ScamClassifierSM 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.

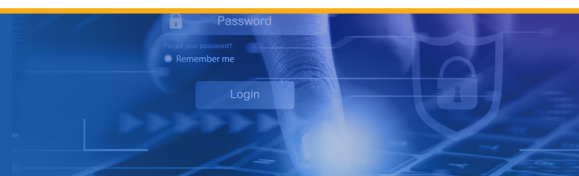
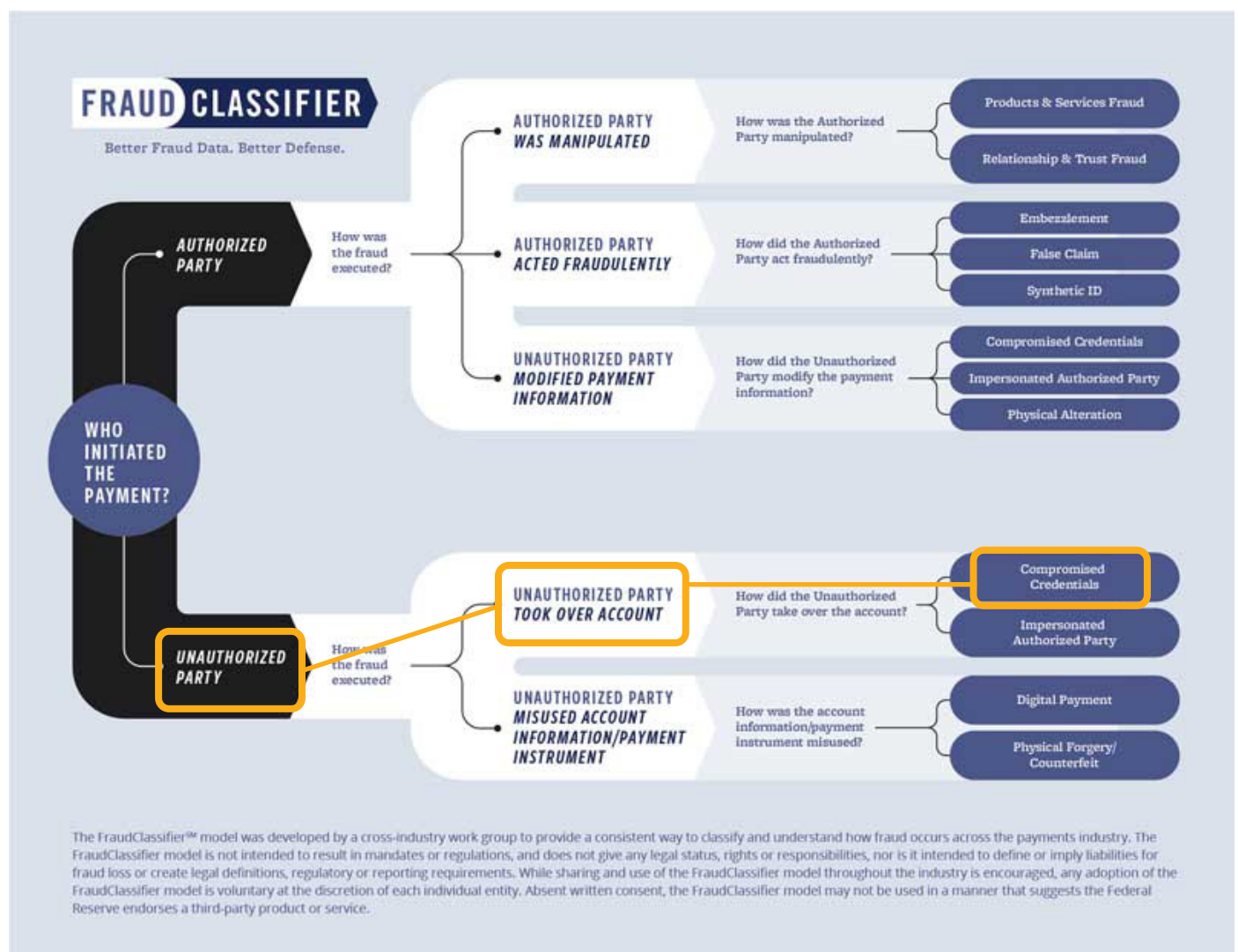


The ScamClassifier model was developed by a cross-industry work group to provide a consistent way to classify and understand how scams occur across the payments industry. The model is not intended to result in mandates or regulations, and does not give any legal status, rights or responsibilities, nor is it intended to define or imply liabilities for loss or create legal definitions, regulatory or reporting requirements. While sharing and use of the ScamClassifier model throughout the industry is encouraged, any adoption of the ScamClassifier model is voluntary at the discretion of each individual entity. Absent written consent, the ScamClassifier model may not be used in a manner that suggests the Federal Reserve endorses a third-party product or service.



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Now the user can move on to classification using the FraudClassifier model. Since it is already known that an unauthorized party initiated the payment, the user can jump to the second step on the FraudClassifier model regarding how the fraud was executed. Again, in this case, an unauthorized party took over the account. The last level of classification provides the fraud type – compromised credentials – that led to unauthorized activity, as well as the scam that led Blake to provide his credentials.





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CONCLUSION

By leveraging the FraudClassifier and ScamClassifier models for account takeover fraud, organizations can gain greater clarity into account takeover fraud trends impacting their customers and tailor their prevention and detection strategies accordingly. Ultimately, greater adoption of the models also may provide more consistent industrywide classifications to facilitate sharing information between entities, assist users to identify cross-industry scam trends and more accurately define the true magnitude of this growing problem.

The account takeover fraud mitigation toolkit was developed by the Federal Reserve to help educate the industry about scams and outline potential ways to help detect and mitigate this fraud type. Insights for this toolkit were provided through interviews with industry experts, publicly available research, and team member expertise. This toolkit is not intended to result in any regulatory or reporting requirements, imply any liabilities for fraud loss, or confer any legal status, legal definitions, or legal rights or responsibilities. While use of this toolkit throughout the industry is encouraged, utilization of the toolkit is voluntary at the discretion of each individual entity. Absent written consent, this toolkit may not be used in a manner that suggests the Federal Reserve endorses a third-party product or service.

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