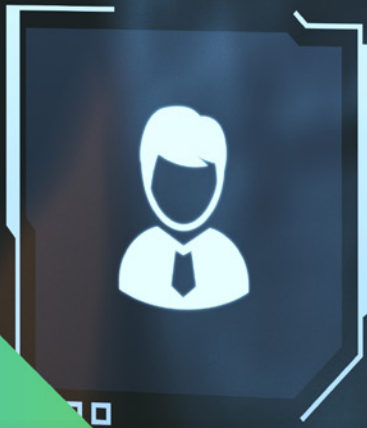NICE
Actimize

Protect Real-Time Payments with IFM

NICE Actimize

Real-Time Fraud Prevention for ISO 20022-Based Payment Systems

As real-time payments become the norm in the U.S., fraud threats are accelerating. Payment systems like FedNow and The Clearing House Real-Time Payments (TCH RTP) are built on the ISO 20022 standard and enable instant, irrevocable settlement, raising the stakes for compliance and real-time risk mitigation. Financial institutions (FIs) must now process and settle payments within seconds, leaving no room for manual review or delayed decision-making.

This shift toward always-on, real-time payments, combined with increased transaction volumes and higher value limits, shrinks fraud detection and intervention windows to milliseconds. Customers expect immediate access to funds, while fraudsters exploit faster rails and legacy defenses. Traditional systems are not designed to handle the demands of real-time payments. FIs must ensure 24/7 operational readiness, continuous liquidity management and robust fraud prevention. To succeed, they need modern fraud analytics that deliver real-time insights, precise risk decisions and automated actions—at scale.

Protect ISO 20022 Payments with NICE Actimize

NICE Actimize's enterprise fraud solution, Integrated Fraud Management (IFM), is purpose-built for real-time payment ecosystems like FedNow and TCH RTP. With sub-millisecond response times, IFM delivers agile, always-on protection against emerging fraud threats. It leverages advanced AI, machine learning and a rich library of pre-built typology-specific features, such as scams and Account Takeovers (ATO), to detect and stop fraud in real time.

Automated decision-making ensures fraud is blocked without disrupting legitimate transactions, enabling FIs to meet the demands of real-time payments, while maintaining trust and compliance.

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Fast Integration & Flexible Message Support

IFM accelerates deployment with an out-of-the-box ISO 20022 PAIN.001 parser, enabling fast and cost-effective integration for real-time and bulk payment environments.

The solution also supports automated enrichment of PACS.002 acknowledgements, ensuring these messages inherit relevant attributes from the original credit transfer request. This continuity of data across the payment chain enhances analytics and operational transparency.

Additionally, IFM ensures that:

- Attributes from credit transfer messages are propagated to subsequent chained messages, preserving context throughout the transaction lifecycle

- Data from request messages flow seamlessly into corresponding response messages, enabling consistent, high-quality inputs for fraud detection and strategy development

This enriched and structured data foundation empowers fraud strategy teams with deeper insights and more precise control, supporting faster deployment, smarter detection and more agile fraud response.

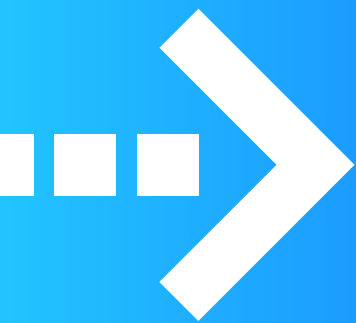## Context-Aware Analytics for Accurate Fraud Detection

IFM builds deep contextual profiles using ISO 20022 message data, including:

- Full transaction context
- Multi-entity behavioral views (customer, counterparty and their relationship)
- Historical behavior windows (hourly, daily, monthly, and seasonal)

These profiles are not limited to monetary transactions—they also include:

- Requests (non-monetary transactions) that may signal intent or setup behavior
- Refunds and money transfers, which often follow fraud attempts or social engineering
- Acknowledgments (e.g., PACS.002), which are treated as evolving statuses of the same transaction, enriching the behavioral timeline

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NICE Actimize

The solution includes a rich library of expert analytics features that capture nuanced behavioral signals, such as:

- **Burst patterns:** Sudden spikes in accepts or rejects without corresponding postings
- **Counterparty risk indicators:** Unusual or suspicious activity with new, old or high-focus counterparties
- **Success and cancel ratios:** Monthly and entity-level success/cancel rates across general and specific counterparties
- **Seasonal and historical trends:** Detection of anomalies based on expected hourly, daily, monthly, or seasonal behavior
- **Suspicious and unusual activity:** Flags based on volume, frequency and diversity of attempts or counterparties

These features enhance the solution's behavioral analytics by providing deep, contextual insights that support dynamic, machine learning–driven detection. They also offer fraud strategy teams the flexibility to incorporate these insights into their decision logic, improving detection accuracy and responsiveness without relying solely on predefined rules.

Scale and Speed

IFM delivers sub-200 millisecond response times and supports 2,500+ transactions per second, ensuring low-latency processing even during peak volumes. This high-performance architecture enables FIs to scale operations confidently while maintaining accurate, real-time fraud prevention and a frictionless customer experience.

Real-Time Decisions Without Customer Disruption

With real-time payments, manual review is not an option. IFM enables fraud teams to define policies and automate responses instantly. AI-driven recommendations help refine rules based on behavioral and transactional data, ensuring swift, intelligent action that stops fraud without impacting legitimate users.

IFM empowers FIs to confidently protect real-time payments—delivering scalable performance, context-aware analytics and automated fraud prevention tailored for ISO 20022-based systems like FedNow and TCH RTP.

Discover how IFM can help your institution stay ahead of fraud in the era of real-time payments

→ **Learn More**

Know more. Risk less.

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About NICE Actimize

As a global leader in artificial intelligence, platform services, and cloud solutions, NICE Actimize excels in preventing fraud, detecting financial crime, and supporting regulatory compliance. Over 1,000 organizations across more than 70 countries trust NICE Actimize to protect their institutions and safeguard assets throughout the entire customer lifecycle. With NICE Actimize, customers gain deeper insights and mitigate risks. Learn more at **www.niceactimize.com**.