

Why Your Alls Missing Money Launderers, And What U.S. Regulators Actually Want

American banks are under mounting pressure to detect financial crime with precision, speed, and explainability. Most AI tools weren't built for that. ThetaRay's Cognitive AI is.

The Illusion of Al Readiness

A mid-sized U.S. bank implemented an "Al-driven" transaction monitoring system with high hopes. The tech promised smarter alerts and better coverage. But months later, after a FinCEN inquiry, they discovered multiple laundering patterns their system had never flagged. The alerts were there, but not the

This is becoming a familiar story.

regulatory scrutiny, these tools often fall short, flooding teams with false positives, overlooking complex risks, and creating investigative drag rather than optimizing performance.

The Problem: Supervised Al Isn't Built for What's Next

Most current AI solutions used in anti-money laundering (AML) are built on supervised machine learning. This means they can only detect risks that have been seen, and labeled, before.

For dynamic financial crime, that's a major problem.

Why Supervised AI Falls Short:



Limited Risk Coverage

If a money laundering tactic is new or hasn't been included in training data, supervised AI won't detect it. These systems are reactive, not adaptive, leaving critical risk exposure.



High Cost of Maintenance

Supervised models depend on learning from historically labeled data, retraining cycles and tuning. That's not just time-consuming, it's expensive, and far from optimized for today's fast paced demands.



Compliance Blind Spots

When regulators like FinCEN, OCC, or **FDIC** ask, "Why did your system flag-or miss-this transaction?"... many supervised AI models can't provide clear answers, creating a black box dynamic.

In short: It's AI that looks good on paper, but fails in practice.

Regulators Are Raising the Bar

U.S. regulators are becoming more prescriptive around model governance, explainability, and risk-based program alignment.



"Explainability is not optional. Financial institutions must be able to articulate how models arrive at decisions."

Senior OCC Examiner (2024 Regulatory Roundtable)

Supervised Al's "black box" nature creates audit challenges. Without clarity, banks face elevated scrutiny, remediation orders and reputational harm.

Cognitive AI:

Built for the Real World of U.S. Banking Compliance

Cognitive AI is fundamentally different. It's built on unsupervised machine learning, meaning it doesn't rely on labeled data or predefined scenarios. Built for a risk-led approach, our platform continuously surfaces evolving threats and sophisticated behavioral patterns missed by legacy tools.

By analyzing billions of transactions to detect anomalous behaviors, connected networks, and hidden financial relationships, even those it hasn't "seen" before, every alert is fully transparent and explainable giving analysts, auditors, and regulators clear visibility into how risk was detected and why an alert was triggered.

We provide full traceability, displaying the impact details for each feature on the detected alert, and documentation for each step, decision, and parameters in the process, making audit-readiness inherent, not an afterthought.

Risk scoring dynamically adjusts in response to behavioral patterns and emerging typologies, helping compliance teams maintain alignment with evolving threats and supervisory expectations.

Why It Works for U.S. Banks:



AML program credibility



Detect more, explain more, and justify more



Reduce alert fatigue and investigative backlogs



latest regulatory guidelines

Cognitive AI isn't just better at detecting financial crime. It's better at **explaining how and why it did so**. That's a critical differentiator for U.S. institutions navigating increasing scrutiny.

You're not just investing in better alerts. You're investing in regulatory peace of mind and optimizing compliance assurance.

Cognitive AI in the detection layer, offering the best of both worlds: advanced risk detection with superior coverage and minimal noise. While other solutions remain trapped in rule-based limitations or ineffective Al models, ThetaRay's Cognitive AI ensures financial institutions can stay ahead of threats, comply with regulations, and improve operational efficiency.

ThetaRay is the only Cognitive AI Transaction Monitoring and Customer Risk Assessment solutions that employ

Conclusion: It's Time for Al That Thinks Like a Regulator

If your current system can't detect emerging threats, can't reduce false positives, and can't explain its decisions,

Cognitive AI isn't the future. It's the standard American banks need right now.

See how ThetaRay empowers American banks to modernize AML, strengthen compliance, and improve operational efficiency.



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you're not just behind. You're exposed.