

# ThetaRay Transaction Monitoring Banking




## Trusted transactions

As the banking landscape continues to expand, customers have transitioned to predominant use of banking apps and online purchases as part of their daily habits.

The ever-growing needs and requirements of customers means banks must extend their services — growing into multi-faceted organizations that offer correspondent banking, payments (global & domestic), trade based financing, retail banking and cash management.

However, the increasing number and complexity of transactions makes it extremely challenging for banks to monitor and analyze. Banks must mitigate against the threat of financial crime while also ensuring a frictionless customer experience.

Why? To safeguard their business and customers from unauthorized transactions and prevent movement of potentially illicit money. They must detect and report on any suspicious activity. Failure to do so could result in regulatory fines, reputational damage and loss of customers.

 <b>Detect unknowns</b>	 <b>Cost effective</b>	 <b>Grow business</b>
<p>Detects and recognizes anomalies and finds unknowns outside of normal behavior, including completely new typologies, with an unbiased machine learning approach.</p>	<p>Delivers reliable results, ThetaRay AI matched 90% of true positives in unlabeled dataset.</p> <p>Significantly reduces analysts' time spent on investigations.</p> <p>Provides comprehensive coverage for cross-border and domestic payment detection.</p>	<p>Identifies risk accurately and precisely, enabling you to grow your business with confidence in countries and segments considered to be high risk.</p>


## ThetaRay detects financial crime effectively

ThetaRay Transaction Monitoring is a cloud-native SaaS solution for banks. It efficiently detects money laundering and other financial crimes, allowing for the growth of new business opportunities through trusted and reliable transactions.

Using advanced, unbiased machine learning that can detect new and unpredictable typologies, or “unknown unknowns,” the solution analyzes data dynamically without relying on predefined scenarios or models. This unique approach factors in dozens of risk indicators associated with financial crimes to paint a clear picture for compliance teams seeking to accurately identify suspicious activities.


The solution is fully configurable with multiple out-the-box risk indicators covering all major global risk typologies and was developed in partnership with banks. Organizations can take advantage of having pseudo-customer identities to create proxies of customers to isolate high-risk originator or beneficiary (non-customer) activity to identify complex risk patterns.

ThetaRay's solution architecture also supports an optional rules layer to bolster real-time decision making.

 <p><b>Intuitive machine learning</b> Unknown-unknown detection &amp; Alert accuracy improvement</p> <ul style="list-style-type: none"> <li>› Multiple data sources analysis</li> <li>› No need for semantic understanding or data labels</li> <li>› Insights from incomplete data</li> <li>› Abnormality detection following normality defining</li> </ul>	 <p><b>Risk-based alerting</b> Red flags coverage &amp; Investigation efficiency improvement</p> <ul style="list-style-type: none"> <li>› Alerting by a composition of alert indicators (features)</li> <li>› "Red flag" coverage by risk indicators</li> <li>› Presentation by the level of activity with respect to the population population and customer segmentation.</li> </ul>	 <p><b>Multi-layer detection</b> Comply &amp; Evolve</p> <ul style="list-style-type: none"> <li>› Unsupervised &amp; semi-supervised machine learning analysis engine</li> <li>› Can be applied to existing rules-based systems</li> <li>› Deterministic rules analysis engine: for use when data exists or for deterministic patterns</li> </ul>
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### Grow your business with trusted transactions

- › Accelerate customer growth
- › Satisfy regulators and internal stakeholders
- › Configurable, and easily integration - allowing for immediate impact
- › Avoid blocking and/or slowing down transactions
- › Reduce false positives and investigation time significantly
- › Lower operational & compliance costs
- › Identify unknown cases/patterns of behavior



ThetaRay Transaction Monitoring is a cloud-native SaaS solution for banks. It efficiently detects money laundering and other financial crimes, ensuring organizations only process trusted and known transactions.

ThetaRay's technology monitors all users and domestic and cross-border transactions. It identifies anomalies indicating potential money laundering activity and adapts itself to changing realities. ThetaRay Transaction Monitoring will detect unusual events, with the machine learning continuously improving its effectiveness as it 'learns' more about the data, producing low false positives and high detection rates.