THETARAY

Network Visualization

Network Visualization is an add-on capability in the ThetaRay Investigation Centre that enables senior analysts and managers to visually explore transactional patterns, identify hidden relationships, and uncover suspicious financial networks. It presents transactional relationships in a graph-based format, where key entities—such as counterparties, customers, and alerted entities—are connected through "edges" representing transactions or other interactions.

This capability allows users to:

✔ Identify direct and indirect linkages between counterparties, high-risk entities, and alerted transactions.

✔ Trace the flow of funds between different entities, helping detect money laundering and other financial crimes, across a historical timeline.

✔ Spot hidden connections between seemingly unrelated entities by analysing shared transaction patterns or common counterparties.

Client Value

1. Uncover Hidden Connections

✔ Visualization of data flows and network elements for performance monitoring. Displays who is transacting with whom and highlights risky relationships.

✔ Helps track fund movements between counterparties to detect financial crime.

2. Focus on What Matters

✔ Visual mapping of the network for quick root cause analysis during troubleshooting. Filter transactions by amount, frequency, country, and risk level.

✔ Adjust graph depth to zoom in on key connections or see the bigger picture.

3. Track Changes Over Time

✔ Timeline analysis helps monitor transactions and highlight potential vulnerabilities and abnormal traffic patterns.

✔ Continuous, monitoring of the network for proactive issue identification, detects unusual behaviour over days, weeks, or months.

4. Simplify Investigations

✔ Unified, clear view of the network for improved collaboration and communication.

✔ Search for specific entities by name or ID to quickly find relevant data.

✔ Export graphs and reports for audits or regulatory reviews in different formats.

Business Impact

✔ **Faster Threat Detection:** Proactive identification of dependencies and suspicious patterns/networks and resolution of issues before they impact operations.

✔ **Improves Risk-Based Decision Making:** Improved collaboration and decision-making by providing a clear, interactive view of transaction networks, enabling faster risk assessment and decision-making.

ThetaRay's Network Visualization capabilities empower businesses to tackle the complex challenges of modern criminal networks and money laundering techniques . By offering clear insights into transactions and connected entities, our tool helps clients prevent potential issues, optimize their infrastructure, and make smarter, data-driven decisions. Ultimately, Network Visualization isn't just about seeing the network—it's about understanding it and using that understanding to drive operational success to detect financial crime and take appropriate action(s).