Leveraging Artificial Intelligence to Illuminate Supply Chain Risk

EXIGER
COVID-19 Amplifies Our Nation’s Need for SCRM Protection

The Department of Defense (DOD) and the Intelligence Community (IC) are at a fulcrum, where the United States’ critical infrastructure, technological advantage, and economic power represent a simultaneous capability and risk to our efforts to protect our US National Security interests. Every minute of every day, our adversaries disproportionately and relentlessly execute cyber espionage attacks, predatory economic behavior, and illicit technology transfer against our Government Agencies, associated Industrial Base and the private sector companies that make up the Defense Innovation Board (DIB). They co-opt and exploit supply chain vulnerabilities to disrupt critical infrastructure, steal America’s intellectual property, surveil our missions, and carry out attacks that undermine our National interest. This wreaks havoc on our economic security as a nation.

We are in an era of adversarial asymmetric warfare for which we have no comprehensive deterrence—taking immediate action to strengthen the defensive posture of our nation is an imperative to ensure our adversaries do not continue to gain a competitive economic and military advantage over us.

“Helping to make the world a better and safer place to do business during our country’s most critical time of need with life saving impact.”

The Right Solution. Tailored to the Right Problem. Effective at the Right Time...and Scale.

There is no better exemplar of ‘mission critical’ than our nation’s response to the COVID-19 crisis. Specifically, to ensure appropriate medical equipment and supplies are available and efficiently distributed where they are needed most—and in time to save American lives.

To help mitigate the risk of high vulnerability to fraud, abuse, and adversarial exploitation, supply chain illumination must be conducted to holistically screen and vet the vendors and underlying supplier networks, ensuring these medical suppliers are reputable, financially secure, operationally reliable, not susceptible to undue corrupt influence, and will not introduce unacceptable risk or in any way compromise the fight against COVID-19.

Delivering this kind of solution to the United States Federal Government and helping the American people through this crisis is a privilege when it matters more than ever—making the world a better and safer place to do business during our country’s most critical time of need with life saving impact.
Our ability as a Nation to continue to operate uncompromised within this increasingly pervasive threat landscape requires an enterprise, data-driven, commercial technology solution that enables the warfighter to tackle these challenges at speed and scale.

Mission Tailored Data & Analytics for Critical Supplier Illumination & Vetting

The Exiger Solution is designed to dynamically and continuously assess supplier risk across supply chains to inform measured and defensible acquisition decisions while strengthening Industrial health and resilience to meet defense strategic priorities and warfighter needs.

Ongoing gathering and analysis of information related to a vendor and associated supply chain network enables the continuous detection, response, mitigation, and recovery from this vast array of foreign adversary threat vectors.

Exiger’s solution combines DDIQ, which harnesses Artificial Intelligence (AI) to identify, validate, and analyze risk indicators on a global scale, along with a custom layer for visual analytics. This solution results in significantly amplified insights, a more complete and continuously monitored common operating picture (COP), and reliable near real-time situational awareness. By using cognitive technologies, Exiger’s DDIQ enables an analyst to significantly accelerate the information search process, conduct automated checks continuously on data reliability, and analyze the results with pre-built risk indicators and known adversary threat vectors.

By aggregating both structured and unstructured data from thousands of sources on a continuous basis, this solution requires no pre-processing for assessing and combining datasets. It promotes high-speed, near real-time data ingest, analysis, and visualization that is highly scalable and tailorable for various user workflows.

“...A combination of government experience, deep understanding of complex global supply chains, foreign due diligence expertise, and purpose-built AI is the only way to enable solutioning at scale.”
Deep Expertise & Proven Purpose-Built Technology for Supply Chain Resilience

Exiger can augment the warfighter and enable uncompromised delivery capabilities by driving a risk-based approach to supply chain vulnerabilities, target intelligence, and dynamic threat triage, by:

- Utilizing machine-driven processes to continuously ingest, normalize and link vast datasets;
- Identifying and characterizing data according to the mission;
- Combining data elements to expose latent risk or confirm explicit risk;
- Compiling and continuously analyzing a complete picture of risk vectors and associated actors;
- Identifying reliable and uncompromised supply chain partners for investment;
- Determining likely hostile threat actor courses of action (CoA);
- Producing intelligence reports (all INTs); and
- Performing continuous situational development in support of mission command.

Current methods for identifying human subject or vendor entities and automatically updating their identity with attributes gathered from publicly available electronic information, mission data, and field reports requires labor-intensive manual intervention and analysis. They rely on error-prone Boolean-based searching and grouping with limited AI supporting isolated features that do not capture contextual risk elements.

Until now with DDIQ, no other solution accurately connects discovered entities by automatically relating continuously-updated attributes. DDIQ is a completely traceable and ethical AI solution, with fully transparent and automated data reliability scoring, to disambiguate a subject’s identity by understanding content from data, grouping semantically-related information with unsupervised learning, and auto-discounting false hits by feedback-based learning.

Developed by experts in technology, law enforcement, and intelligence, DDIQ uses machine learning models to identify, extract, and associate relevant content from vast sources of structured and unstructured data. DDIQ’s industry-first capability reduces noise and false positives by over 95% with an analytical accuracy around fuzzy matching, deduplication, and entity resolution of 99.3%. Results are classified with meaningful intelligence grouped into risk categories through a Natural Language Processing capability.

With entity-based cognitive computing, DDIQ automates the data and entity validation, enhancement, and analysis. It validates and organizes content like an analyst or investigator, without the time, cost and errors of human-based research. The result is broad-scope, high-value intelligence delivered rapidly at a lower cost that makes the world a safer place to do business.

“... The COVID-19 crisis is severely aggravating and degrading our already vulnerable supplier networks with adversaries preying on increased vulnerabilities. We must stop admiring this problem and invest in solutioning at scale. American lives, as well as our National and Economic Security, depend on it.”
The Exiger Advantage: Tangible & Proven Results

Established in 2013 by investigations leaders to fight financial crime, fraud, and terrorism financing. We began by leading the court-appointed global Monitorship of HSBC: the largest corporate monitorship in history.

Award-Winning AI Powered by Exiger’s Threat Finance, Risk and CI Experts
We are leading and disrupting the market with our People + Tech solutions to identify, validate and analyze global risk indicators. Our AI technology drives transformational changes in how entities are vetted at unprecedented scale.

Exiger by the Numbers
9 offices across the globe. Partnerships with an extensive network of on-the-ground international resources. Professionals fluent in 30+ languages. 600+ employees including 100+ data scientists.

| 95% false positive & noise reduction | 6.3 B+ access to information from 300 million companies + 6 billion people |
| 10,000s data sources already ingested & watchlists searched & translated in 60+ languages | 93% fuzzy matching, deduplication & entity resolution |

Experienced Team of Top Law Enforcement and Security Veterans
✓ FBI Agents
✓ DoD Executives
✓ Intel Analysts
✓ Compliance Technology Leaders
✓ General Counsels
✓ Chief Compliance Officers
✓ Investigative Researchers
✓ Banking Executives

Trusted by U.S. Regulators
US Department of Justice | Office of the Comptroller of the Currency | Federal Reserve Bank and more
✓ Over 30 of the World’s Top 50 Banks
✓ Over 150 of the Fortune 1000
✓ Over a Dozen Government Agencies and Regulators

Maintaining industrial health for the financial sector, governments and multi-national corporations

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Appendix

I. About DDIQ

II. Case Studies:

SCRM Industrial Health Use Case

Adversarial Finance in Supply Chain Use Case
DDIQ is the proven AI-powered automated vetting and risk management solution for government agencies.

Find bad guys, not bad hits.

National Security demands escalating pressure to research, analyze and make decisions as quickly as possible without missing material risk. DDIQ illuminates affiliated entities and people, enabling a more comprehensive analysis in a fraction of the time and cost.

"If you think about how you can achieve a 60% reduction, it also means that that analyst can do more files, but at the same time what we found is their quality of life is made immeasurably better because they feel like they’re really an analyst again, as opposed to an information parser... with the utilization of technology."

- Mark Kaplan (COO, Cantor Fitzgerald) in the ABA/ABA Financial Crimes Enforcement Podcast on how DDIQ elevates the standard for automation in risk management when onboarding all types of entities

AI for the IC & National Security Mission

- Identification
- Screening
- Monitoring
- Refresh

Searches thousands of configurable sources

- First and Last Name
- D.O.B.
- Company Name
- Etc.

Reviews and removes irrelevant and duplicative results

Documents each of the steps it takes to retrieve and assess the results

Risk-classifies and ranks the relevant results to escalate for further review
Award-Winning AI Powered by Exiger’s Threat Finance, Risk & CI Experts

DDIQ is industry-leading an automated research, diligence, monitoring, and investigation solution based on a cognitive computing platform that accesses thousands of sources such as the open web, deep web, corporate registration records, watchlists and premium information to automatically and comprehensively assess risk. DDIQ was purpose-built by a former Microsoft search technology engineer and strategist with a staff of data scientists, software engineers and cognitive computing professionals.

**Rapid and Comprehensive Profile**
Scours thousands of sources to compile a full risk picture with results in 5-10 minutes

**Auto-Adjudication**
Auditable & automated reduction of up to 95% of noise & false positives

**Customizable Risk Weighting**
Discovered events grouped & ranked based on the client’s risk profile

**Scheduled Refreshes**
Supports a risk-based approach to refreshing customer profiles

**Confidence Scoring**
Results scored based on likely match to the subject

**Machine Translation with Global Reach**
Automated translation of non-English sources in up to 60+ languages with relevant snippets

**Continuous Monitoring at Scale**
DDIQ monitors >30M+ subjects and triggers alerts for new regulatory, adverse & legal events on a recurring basis.

**De-Duplication**

**Risk Classification**

**Confidence Level Reporting**

**Sourcing & Auditable**

**Content Filter**

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**Case Studies**
How AI Can Help Solution the COVID-19 Supply Chain Challenge

**Most Advanced AI Solution in Supply Chain Risk Management**
- Mature commercially proven scalable platform
- Highly configurable... i.e. batch process, API, customer data
- Hundreds of pre-built risk algorithms / Access to thousands of pre-integrated data sources
- Dedicated team to tailor risk events and sources
- Automated translation in 60+ languages

**Proven Technology + Vetting Experts = EXIGER**

**Deep Expertise of an Advisory Firm**
- World leader in pre-IPO and Citizenship by Investment due diligence
- Trusted financial crimes advisor to the largest banks in the world
- 20+ years of Gov't past performance
- Conducting Continuous Monitoring at scale today
- Experts in exploiting open source / PAEI including social media

**SCRM Industrial Health Use Case**

**Adversarial Finance in Supply Chain Use Case**

1. DDIQ Extracts an Entity Connected with a Critical Medical Supplier Candidate for DPA Funding
2. DDIQ Reveals Critical Supplier Connected Through a Product and Partnership Subject to FDA Emergency Authorization
3. The Site Picture Develops, Alerting the Analyst to Articles DDIQ has Found, Revealing a Latent Chinese Developer and Manufacturer for the Medical Device
4. DDIQ Automatically Visualizes the Ownership Structure, Allowing for In-Depth FOCI and Adversarial Finance Review