

Visual Analysis Studio

An analytical product that facilitates and accelerates fraud detection.

2021





What is going on in the industry?

Over the past three years, the number of companies that experienced economic crime, has increased by 13%.*

For the past two years, more than half of the respondent companies said they had increased spending on combatting fraud.

*According to PwC Russian Economic Crime and Fraud Survey: “Combating fraud: measures taken by companies”.

1

Asset misappropriation

Asset misappropriation is the number one global fraud. According to PwC survey (2018), 45 % of companies worldwide have suffered this kind of fraud.

2

Cybercrime

31% of the respondent companies said they experienced this type of fraud, making cybercrime 2nd most frequently reported fraud this year.

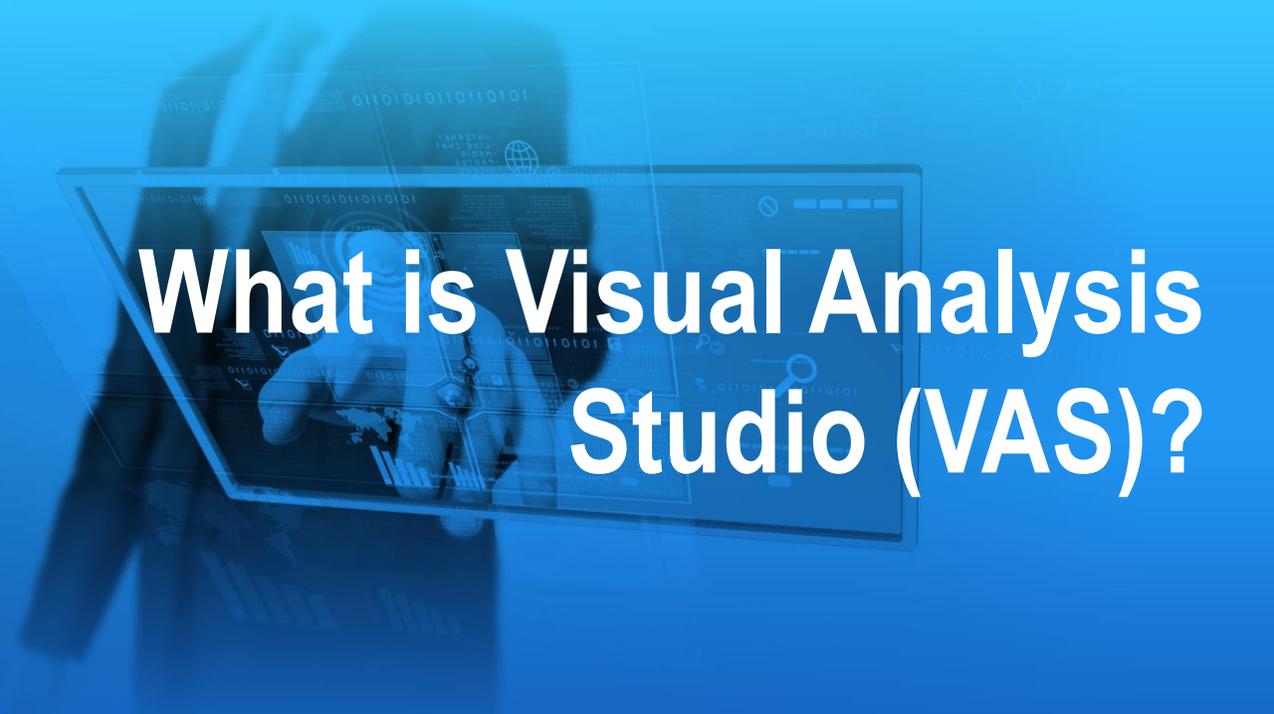
3

Consumer fraud

Consumer fraud has grown in prominence to such an extent that this year's survey is measuring it as a separate threat for the first time. Of the respondents who indicated their companies had experienced fraud in the last two years, 29% said they had suffered from consumer fraud.



The most prevalent
economic crimes



What is Visual Analysis Studio (VAS)?

An analytical software product that simplifies and accelerates detection of complex fraud schemes in a bank, insurance company or telecom-operator. The solution allows compliance and security officers to conduct interactive investigations, and analyze and visualize data with complex relationships.

_01 Detection of new fraud schemes

The solution shortens time required for data analysis. Employees reveal hidden relationships in data that are hard to find with other tools.

_02 Simultaneous check of several incidents for fraud

The solution helps to detect the most relevant data for analysis and gain insight into the complex relationships between subjects.

_03 Building data-driven investigation scenarios

The product accumulates large amount of unstructured data about subjects from internal and external sources, analyzes the information and builds up investigation processes.



**What challenges does
VAS cover?**



Industries that may benefit from VAS

_1 Banking and Finance

_2 Insurance companies

_3 Law enforcement authorities

_4 Telecommunications companies

1 Banking and Finance

What business challenges
are we ready to address?

Business challenges

- Prevent bribery and corruption (FC/FP)
- Prevent legitimization of income received by illegal means and financing of terrorism (AML, CFT)
- Detect credit fraud

Solution

Visual analysis studio helps to provide access to financial and other data on how clients relate to each other in real-time mode. It also checks transactions between contracting parties and searches blacklists for the relevant information. Security officers find indirect clues, like the same location or telephone number, that help to disclose affiliation between companies. The product visualizes illicit financial flows, facilitates detection of relationships between people and organizations involved into criminal activities and can reveal money laundering schemes.

Our client

- Compliance control departments
- Security departments

Business challenges

- Investigate insurance claims and frauds
- Prevent money laundering

Solution

With the help of Visual Analysis Studio, investigation officers study insurance transactions to reveal insurance fraud and money laundering, check complaints about things being stolen against theft insurance cases, disclose relations, if any, between an insured, insurer, and insurance company employees or third parties.

The product provides a fast audit of insurance contracts to exclude cases of double insurance. It helps to disclose indirect fraud symptoms, such as the same time, location and similar circumstances of insurance cases.

Our client

- Insurance claim investigation division
- Security departments

Business challenges

- Prevent tax evasion
- Conduct investigations
- Combat internal and procurement fraud

Solution

Visual Analysis Studio helps to reveal relationships between criminal enterprises and their members, disclose organizational structure of a criminal network, its recruitment techniques, infrastructure, determine criminals' location and facilities. Investigative agencies detect financial transactions of criminal enterprises and unveil channels and sources of crime funding to predict and prevent potential threats.

Our client

- Investigative agencies (Financial Investigations, Criminal Investigations)
- Corporate security departments

Business challenge

- Detect voice traffic fraud
-

Solution

By using Visual Analysis Studio security officers check traffic to detect its abnormal usage and reveal fraud symptoms.

Our client

- Information security departments of telecom companies
-



Visual Analysis Studio: key benefits

- _1 Not bound to a third-party vendor: the product is built on open source technologies
- _2 A user has a choice: to install desktop application or to work in a browser
- _3 Provided as an on-premise or cloud-based product
- _4 Product customization based on customer's requirements



Main user capabilities 1/2

- _01 Objects.** View and edit information about objects, leave notes
- _02 Connections.** View and edit connections between objects, set time intervals
- _03 Aligning and grouping.** Arrange objects on a graph in compliance with templates; combine similar objects into groups
- _04 Search and filters.** Search graph for objects by their attributes and connections, set search criteria and apply filters
- _05 Tags.** Assign tags manually or automatically, visualize and group tags

What a user can do with the application?



Main user capabilities 2/2

- _06 Transactions.** Highlight repetitive transactions, view suspicious transactions by date or intervals
- _07 Search for ways.** Detect hidden connections that indicate suspicious transactions
- _08 Location.** Find connections between objects by their location, telephone number, email; detect hidden infrastructure
- _09 Statistics.** Detect data attributes anomalies
- _10 Data import.** Set up data import from/into Excel, update data received from external sources

What a user can do with the application?



What we do?

Demonstrate

We demonstrate capabilities of Visual Analysis Studio to you then elicit custom requirements for the solution.

Prototype

We create a prototype based on your data; deploy solution on premise or in the cloud; develop technical and commercial offer for implementation.
Duration – 1 month.

Implement

We study data sources, business rules and information analysis scenarios. We develop process for data uploading to warehouses; set up visualization and reports generation.
Duration – 3-4 months.

Support

We configure and support Visual Analysis Studio; train your employees to use the product.



Visual Analysis Studio integration

Internal and external systems

- Core banking (Equation), ERP and accounting systems (SAP, 1C)
- Yandex maps, Google maps, OSM
- Social networks vk.com, Facebook
- SIEM: IBM Qradar
- Chronos

External public registries

- Public register of legal entities and individual entrepreneurs
- Register of legal entities and individual entrepreneurs blacklisted for economic crimes
- Lists of organizations undergoing bankruptcy procedures
- Lists of entities that underpaid taxes to the budget
- Blacklists of suppliers that were involved in public procurement

Third-party applications

- Own web service API
- Integration with third-party applications and authentication providers



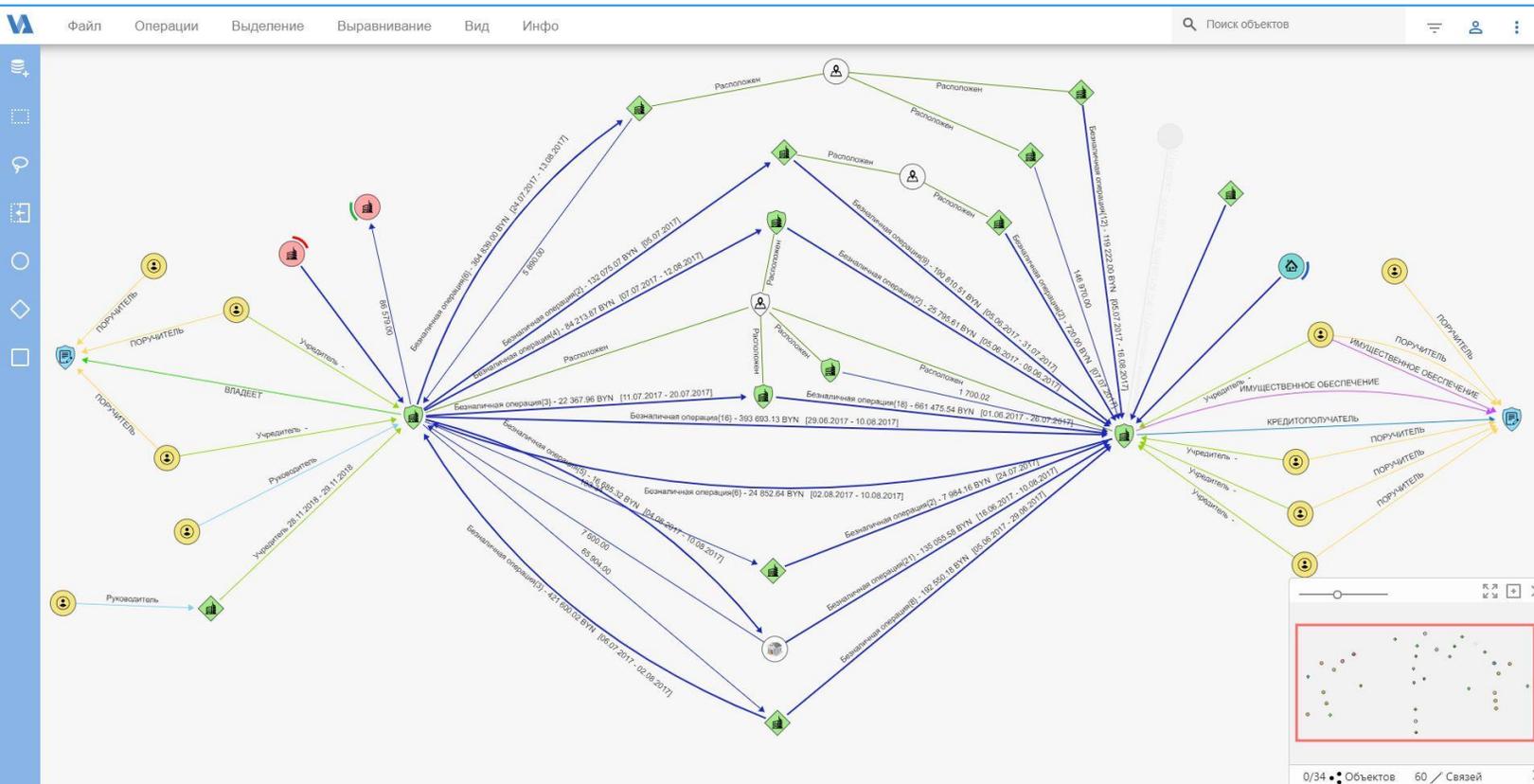
Why Visual Analysis Studio?

Visual Analysis Studio. Projects





Credit frauds1/2



Customer

International Bank

Project status

Pilot project

Result

The product visualized loan applications from connected entities, dishonest contractors, concealed troubled debts and same location – all on a single graph.



Why Visual Analysis Studio?

Financial crime investigation

using Visual Analysis Studio.



Please, view some cases

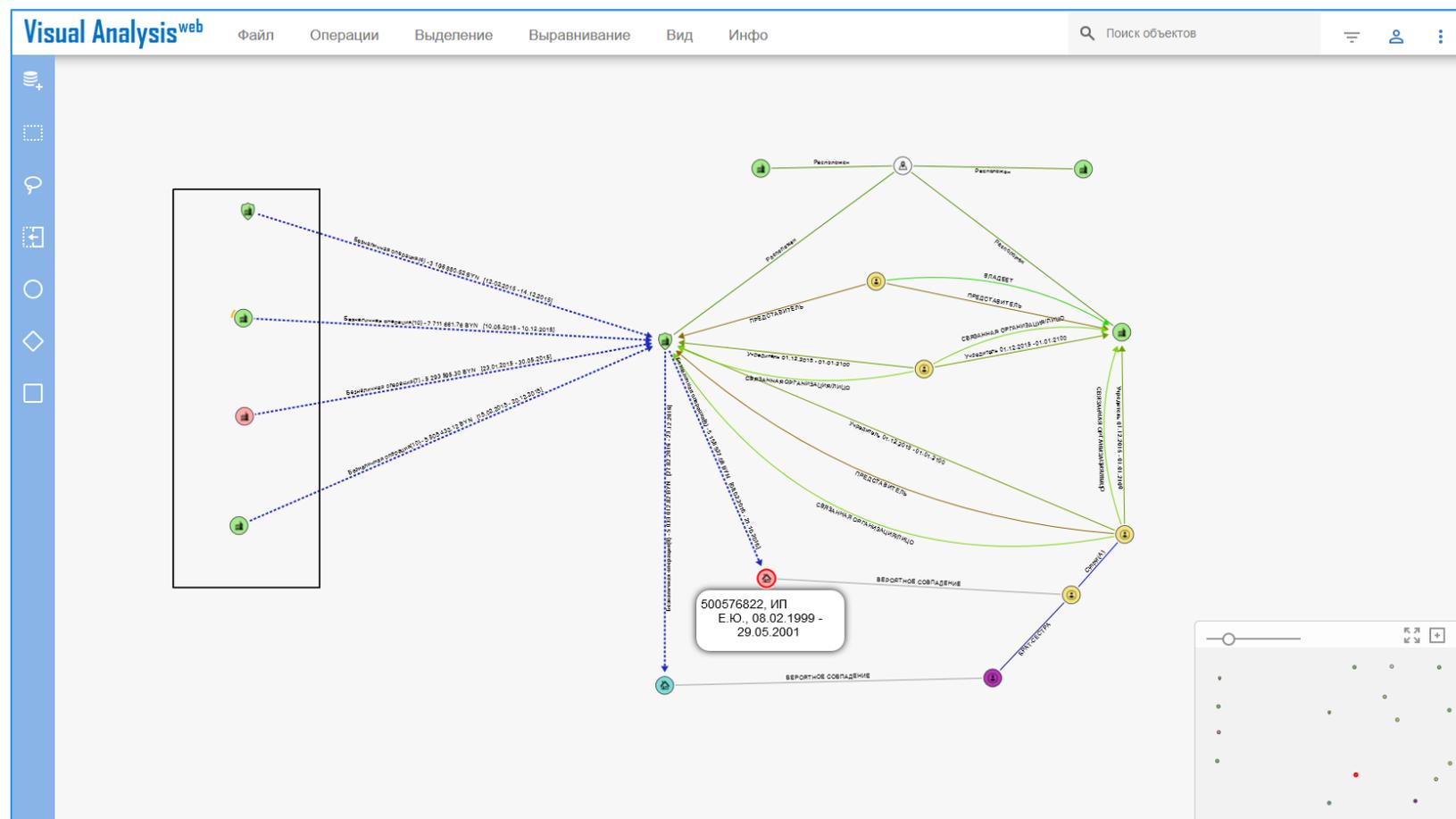




Illegal encashment and tax evasion

Case description and results

The product visualizes money transferred by involved legal entities to accounts of individual entrepreneurs under their control to withdraw cash and evade taxes. Security officers easily detect the fraud scheme.



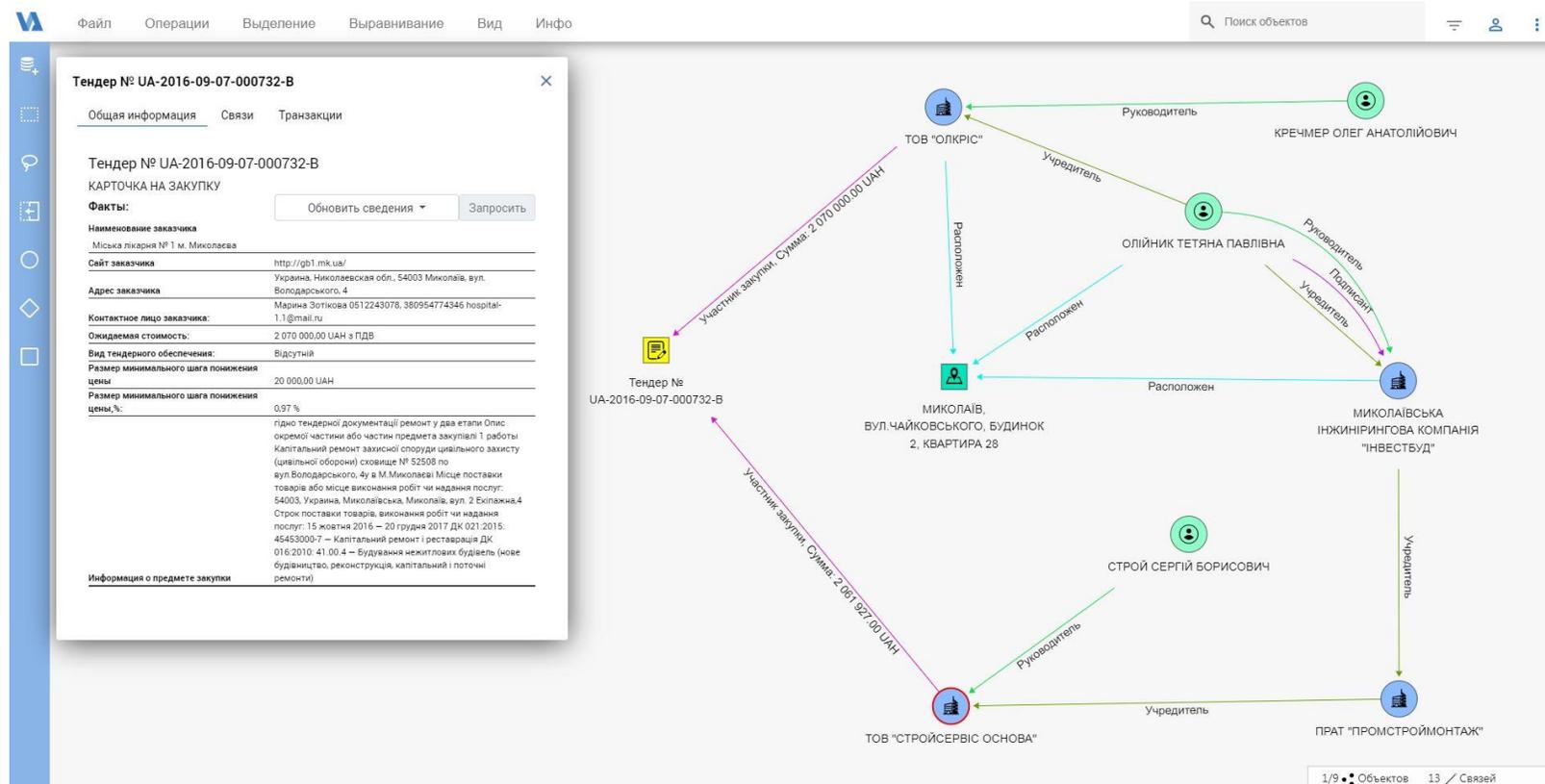


Procurement fraud. Detection of the affiliated companies

Case description and results

Enterprise security officers checked each company, which applied for the tender participation, and didn't find anything suspicious about them.

When analyzing the same data with Visual Analysis Studio, they revealed that the founders of the participating companies are connected through another company. The enterprise detected potential fraud scheme before the tender.

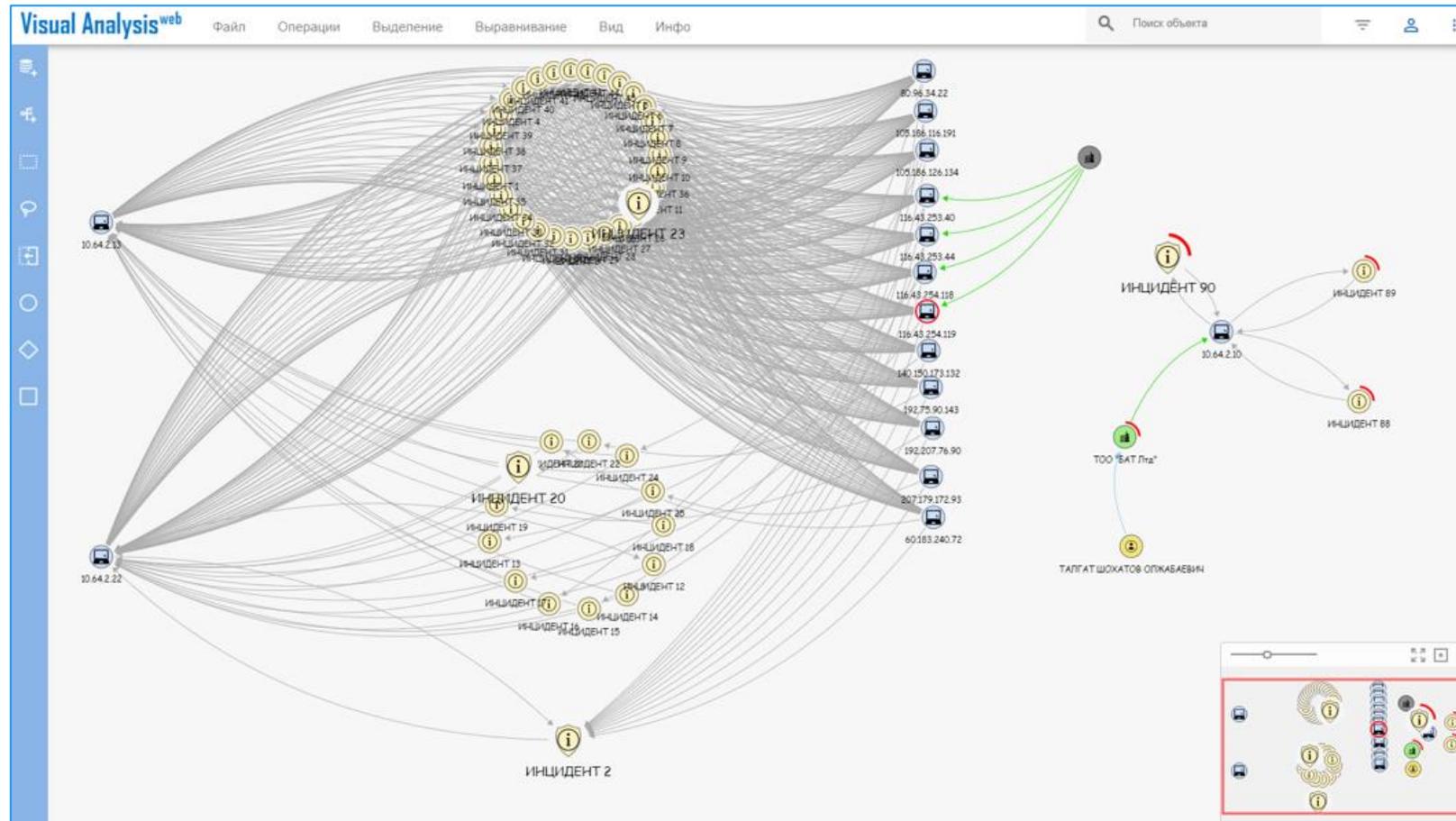




Distributed attack on company's infrastructure

Case description and results

The product displayed data on network scanning, DDOS attack, password mining from SIEM and provided all the information combined into a single fraud scheme.





5 facts about IBA Group

- _1 25+ years in IT business
- _2 2 600+ IT and business professionals
- _3 20+ companies located in 12 countries worldwide with headquarters in Prague, the Czech Republic
- _4 A partner of the world leading IT service providers
- _5 In-house products and solutions



Key customers by industries

Telecommunications



Global IT companies



Retail



Banking and Finance





Key customers by industries



Ministry of Defence of the Czech Republic



Oil and Gas

Energy

Manufacturing

Transport and Logistics

Government

Education



2 000+ projects
5 continents
clients from 40+ countries

Europe

Austria
Belarus
Belgium
Bulgaria
Great Britain
Hungary
Germany
Greece
Denmark
Ireland
Iceland
Spain
Italy
Latvia
Luxembourg
Netherlands
Poland
Portugal
Russia
Romania
Slovenia
Ukraine
Finland
France
Czech
Sweden

Australia and Oceania

New Zealand

Asia

Israel
India
Jordan
Kazakhstan
Kyrgyzstan
China
Kuwait
Saudi Arabia
Turkmenistan
Turkey
Uzbekistan

America

Canada
Mexico
USA

Africa

South Africa



Key partners





International recognition in the IT market



Winner of 2017
**CEE SHARED SERVICES AND
OUTSOURCING AWARDS**
Top CSR initiative of the Year



Thank you for your attention!

