

LAB.●ORIS.SPACE

# Oris Lab LLP

Blockchain Life 2024

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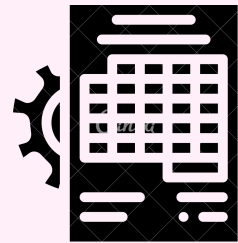
# Introduction

**Oris Lab LLP** is a Kazakhstan-based IT company specializing in the development of proprietary software products based on blockchain technology. Since 2021, the company has been an active participant in the international technopark of IT startups **Astana Hub**. With unique proprietary developments and extensive experience in the financial and IT sectors, the **Oris Lab** team is ready to offer comprehensive solutions for business process automation.

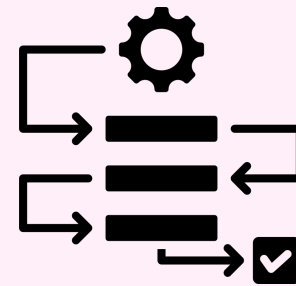
# Our achievements:

- ✔ Successfully completed audit of software products from Group-IB;
- ✔ In the process of obtaining a license from the AIFC Fintech Lab;
- ✔ Protected security system;
- ✔ Own multi-signature mechanism;
- ✔ Providing full reporting on completed transactions;
- ✔ Electronic document management with customized business processes.

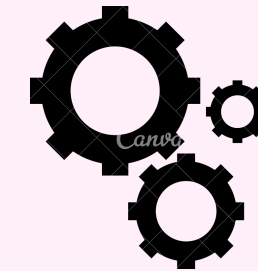
# Our services:



Software development



Building business  
processes

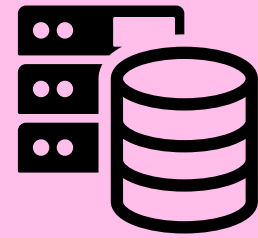


Setting up  
accounting systems

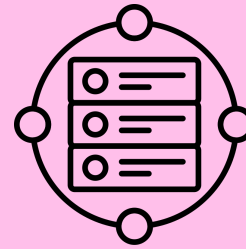
Our solutions for integration with blockchain technology have already been tested and are ready for use.

We provide exactly the services that clients really require.

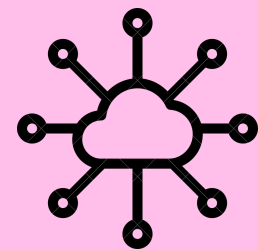
# Our products:



Black Box



Electrical system document flow



Safina

# Safina

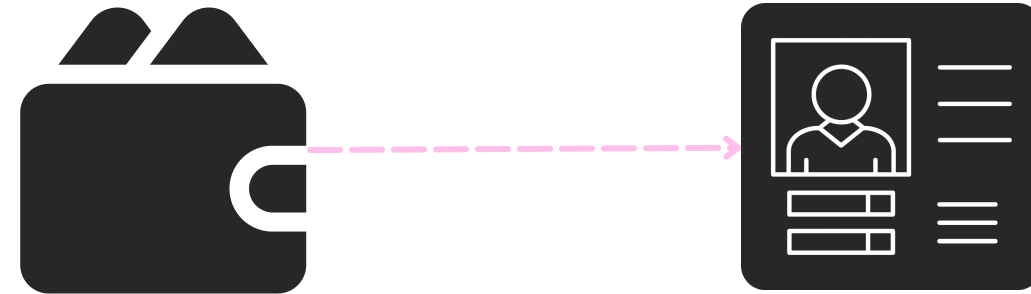
Safina is a testing environment that serves as a kind of platform for our company to develop and test various services and products before their launch.

Tests have now been developed:

- multi-signature wallet service with personal account and mobile application,
- crypto acquiring service,
- crypto custody service,
- authorization server (Sign-Sign-On), responsible for account management and user verification for all other services,
- Black Box business process management server.

# The uniqueness of our approach

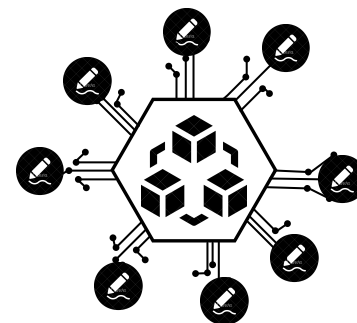
Personal wallet



A method for storing keys for client wallets

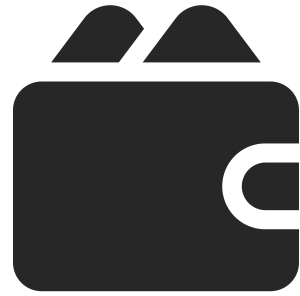


Multi-signature mechanism



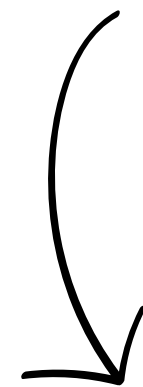
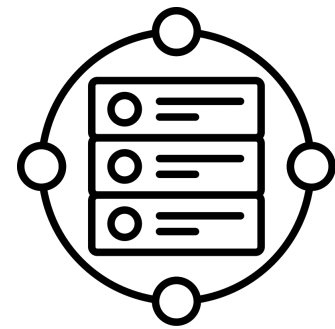


The user fills in the wallet details:

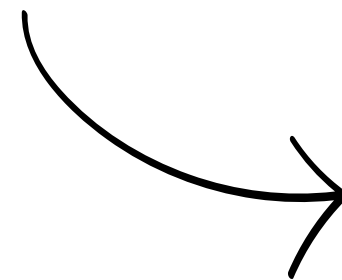


- name
- blockchain network
- e-mail of the signatory

Next, to transfer funds, similar documents are generated, which are signed by the user (or signatory). Based on the results of the signature, Black Box signs the transaction with a key.

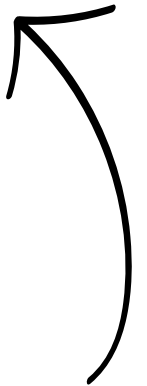
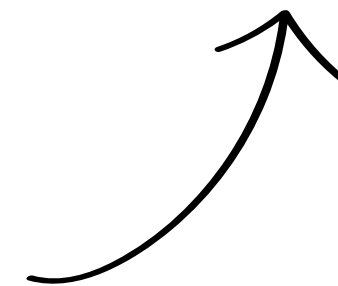


A document for creating this wallet is generated in the document flow system



The user confirms the document for the creation of this wallet

The Black Box server receives the details of this wallet. Releases a pair of keys. Saves them to the key vault.



# Electronic document management

It is based on the powerful HCL Notes platform. This software allows us to manage various types of documents within our business processes.

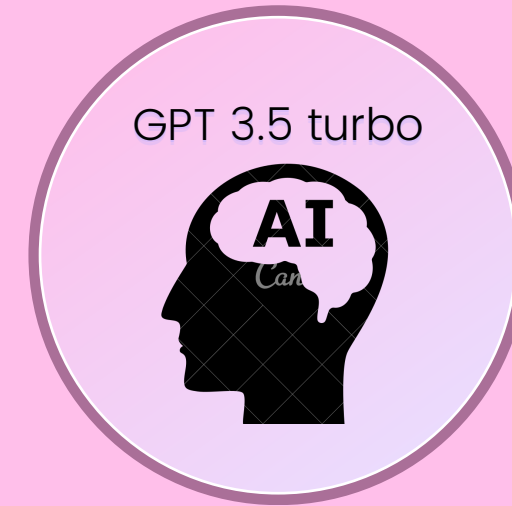
HCL Notes allows you to create efficient workflows by automating the processes of document collection, processing and approval. Thanks to this technology, we can provide a high level of security and integrity of information that is critical to our operations and exchange of documents, including important data for creating crypto wallets and conducting transactions.

# Black Box

Black Box is the central component of an information system designed to manage crypto assets. It includes subsystems for encryption and secure key storage, as well as private key management and interaction with the blockchain.

Located in a demilitarized zone (DMZ), Black Box operates in strict accordance with the rules established when the system was created. It performs the functions of creating crypto wallets, storing and managing private keys, signing transactions using these keys and then sending them to the blockchain.

# Chatbot support using GPT



In the modern world, customer support plays a crucial role in user experience. In addition to our products, we can develop a technical support chatbot. Two options are proposed:

- 1) The bot serves as a knowledge base. If a user cannot find an answer to their question, they can ask the support team through the bot. The support team's response will be sent to the user's chat with the bot.
- 2) The bot incorporates artificial intelligence, which can answer questions and provide statistics on all queries. Thanks to the AI's trainability, the quality of responses continually improves.

In addition to these two options, we also offer enhancement of the administrative panel for the bot. This will allow you to easily manage and customize the bot's functionality and settings. You will be able to track the bot's activity, analyze user query data, evaluate the chatbot's effectiveness, and take necessary measures for its improvement.

# Success story

In the spring of 2023, Oris Lab successfully completed comprehensive vulnerability testing and assessed the level of security of the company's external infrastructure. The auditor was the leading international information security company Group-IB.

## Results:

- Multi-vector penetration tests have shown that Oris Lab's protective measures and security policies are effective. The identified vulnerabilities were promptly fixed in accordance with the recommendations provided by Group-IB.
- The Black Box crypto key storage has successfully passed all strength tests. Pentest showed that unauthorized access from the outside to the core of the Oris Lab information system is impossible.

[Link](#) for detailed information about the audit results.

# Copyrights

In the development of our software solutions, we successfully integrate accumulated knowledge and experience from the traditional financial sector with the new opportunities provided by blockchain technology. Over the years, our company has obtained copyrights for a number of innovative developments:

- Secure reception and transmission of textual and structured information.
- Crypto-custodial service.
- Business process management system.
- Safina (a technology for fast and secure interaction with blockchain), and so on.

The full list of copyrights can be found on [the Oris Lab website](#).

# Team

The company's team is diverse, consisting of both experienced financiers and programmers, as well as young specialists who bring a new impetus and dynamism to projects, contributing to their development.

Special attention is paid in the company to transferring knowledge to the younger generation. From 2021 to 2024, **Oris Lab** signed memorandums of cooperation with leading universities in Kazakhstan. As part of these partnerships, the company accepts students for industrial and pre-graduate internships, conducts seminars and takes part in internal events of educational institutions. At the end of the internship, the most active students receive invitations to undergo further internships and possible further employment.

Building a separate young team is one of the tasks of **Oris Lab**.

# Successful cases

## Partnership with European structure

In 2023, Oris Lab, in partnership with a European structure, developed and released two innovative smart contracts that allow attracting investments and ensuring transparency and security of transactions.



# Real estate tokenization with Oris Lab

In 2023, Oris Lab embarked on the implementation of a real estate tokenization project, introducing an innovative method of asset management. This approach involves the creation of unique NFTs for each real estate property, followed by the issuance of tokens to form an NFT collection. These tokens are then listed on an exchange, attracting the necessary assets for construction. This tokenization strategy enables bypassing the complexities associated with establishing a dedicated real estate fund, offering efficient and legally justified utilization of digital assets.

# Neo Custody Limited

Currently, **Oris Lab** is actively developing a crypto-custodial service and is in the process of registering and obtaining a license for its subsidiary “**Neo Custody Limited**” in the Astana International Financial Center.

It is important to note that the company will strictly adhere to the policy of working exclusively with licensed companies in the field of digital assets in the territory of the Republic of Kazakhstan. All reporting on the company’s activities will be submitted to the Agency of the Republic of Kazakhstan for Financial Monitoring.

The services provided by the subsidiary will focus on the secure storage of crypto assets and the management of clients' personal private keys, as well as the issuance and management of tokens. For more detailed information, we recommend visiting the Neo Custody Limited [website](#).

# H2K Service

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H2K is one of the key services provided within the Safina ecosystem. It offers services for opening and maintaining multi-signature crypto custody wallets, ensuring a high level of security and convenience for users. The service includes a mobile application for Android and a web version of the personal account.

H2K also includes a crypto-acquiring mechanism, which provides the capability to conduct cryptocurrency transactions. The technology is based on Ethereum's private key generation method and plays a crucial role in data authentication and ensuring the security of data transmission between our and client systems.



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