



GENESIS

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Introduction

GENESIS is a decentralized crowdsourcing project dedicated to innovative intelligent automation solutions and IoT based on the Ethereum network. Our goal is to build a reliable, global IoT decentralized service for ordinary users and a flexible tool for developers.

Demand Creates Its Own Supply

Nowadays, there are many service providers and technical solutions in the IoT industry, but there is still no standard so that an ordinary person or an entrepreneur can connect without any difficulties and take advantage of the advantages and amenities of new technologies. Trend Internet of Things is

increasingly gaining popularity in the community. Today, there is no safe and understandable system, for an ordinary user, that would allow for affordable and convenient payment in public transport, payment for services or goods in any business area, use of a home automation system ("Smart House") to improve safety and comfort, Automation in manufacturing to save resources. Also, this technology will be helpful to young parents, installing protection on dangerous devices for children, and in servicing the house for people with disabilities. A lot of network providers, private companies and companies using open source projects build services to sell them to their customers, but not everyone can use such services, as there is no universality and globalization in this direction. The GЄNЄSIS network will change the paradigm of achieving the result. The user can set goals, not ways to achieve them.

Platform structure

At the time when there is no globalized service on the market, there is a lot of electronics. Products such as Arduino, Espressif, RaspberryPi, Radxa, Chip, Intel Galileo and others, have made a big contribution to the IoT industry. Basically these projects were developed for enthusiasts, people who have hobbies to collect and integrate electronics with temperature and humidity sensors, motion sensors, photosensitive sensors and etc. Is this all development come to an end? In what direction are the technologies and the market moving on?

Cell Attendance is a technology for simply connecting and using IOT devices both locally and remotely. Cell Attendance means the connection to the router that supports GЄNЄSIS (hereinafter referred to as the GЄNЄSIS router), which

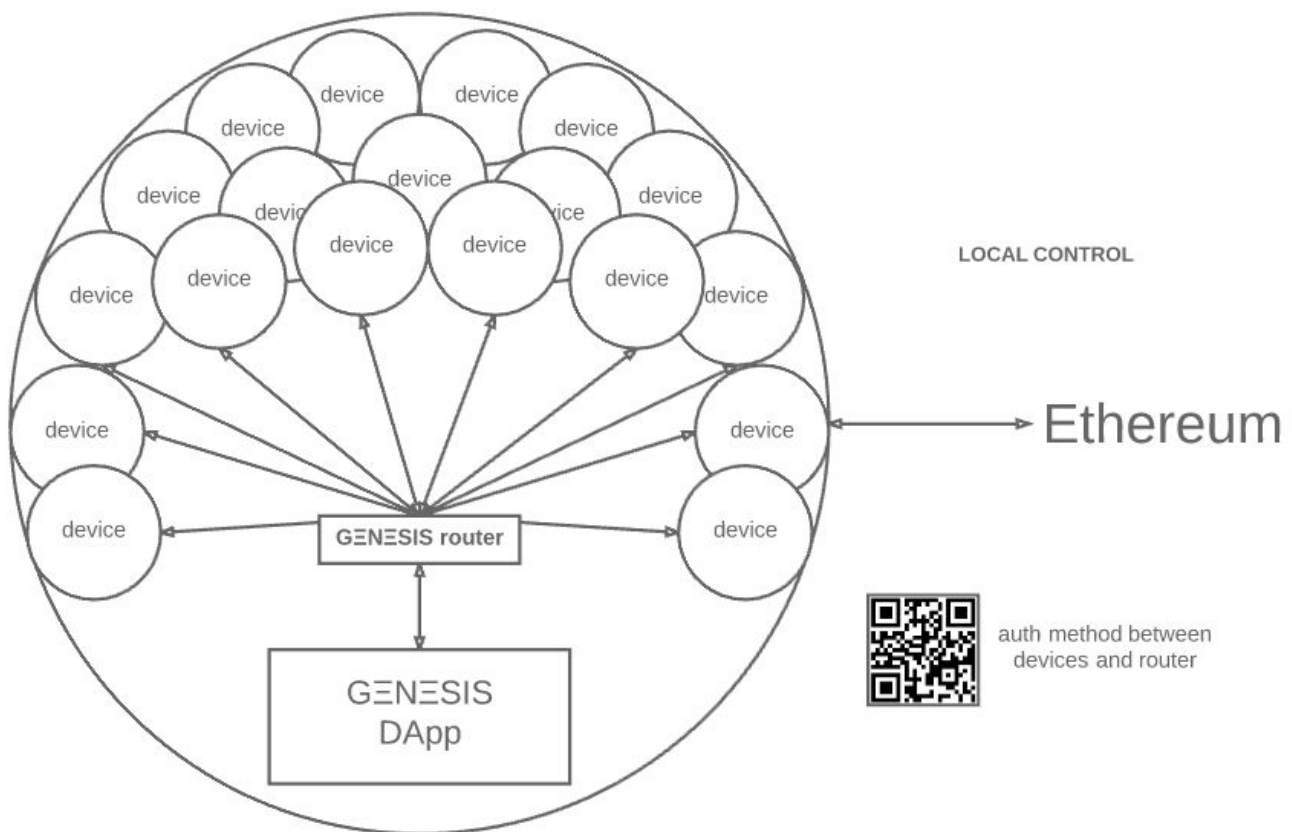
will be connected to the Internet and directly connected to the decentralized network of GΞNΞSIS for remote management and configuration of communications between local devices (using the Ethereum network) and managing them locally using a wireless connection. Local devices - this is any smart electronics, with a built-in low-power digital transceiver, which is connected to a local wireless network and which, with its logic and design, must solve certain tasks. In order to organize a Cell Attendance connection, you need to create a GΞNΞSIS account and install a router from the vendor that supports our technology. The customer should not come up with their own ways of connecting. Using the technology of Cell Attendance, an ordinary user can configure and manage all devices at home, in the office or in manufacturing.

Local control takes place via GΞNΞSIS router, which will include specially designed software, where the user chooses the destination, be it city transport, institution or own house. Connection of the devices to the GΞNΞSIS router will be done using a QR code that will be printed in the User Guide or on the device itself, which will contain information about the device (model, production date, serial number) and its authentication key, that will help to owner(and only) of this device to connect it and manage it. GΞNΞSIS account will contain information about the connected devices, in case of loss or theft of the mobile phone, it will help to regain control over them. As a result, in addition to the security of authorization and management, each user will be able to prove ownership of a certain product in the event of its theft or loss.

It is enough to buy another mobile phone, enter your GΞNΞSIS account credentials (or login using the DApp desktop) and add your new smartphone (the old smartphone can't be removed from the account for greater security). When

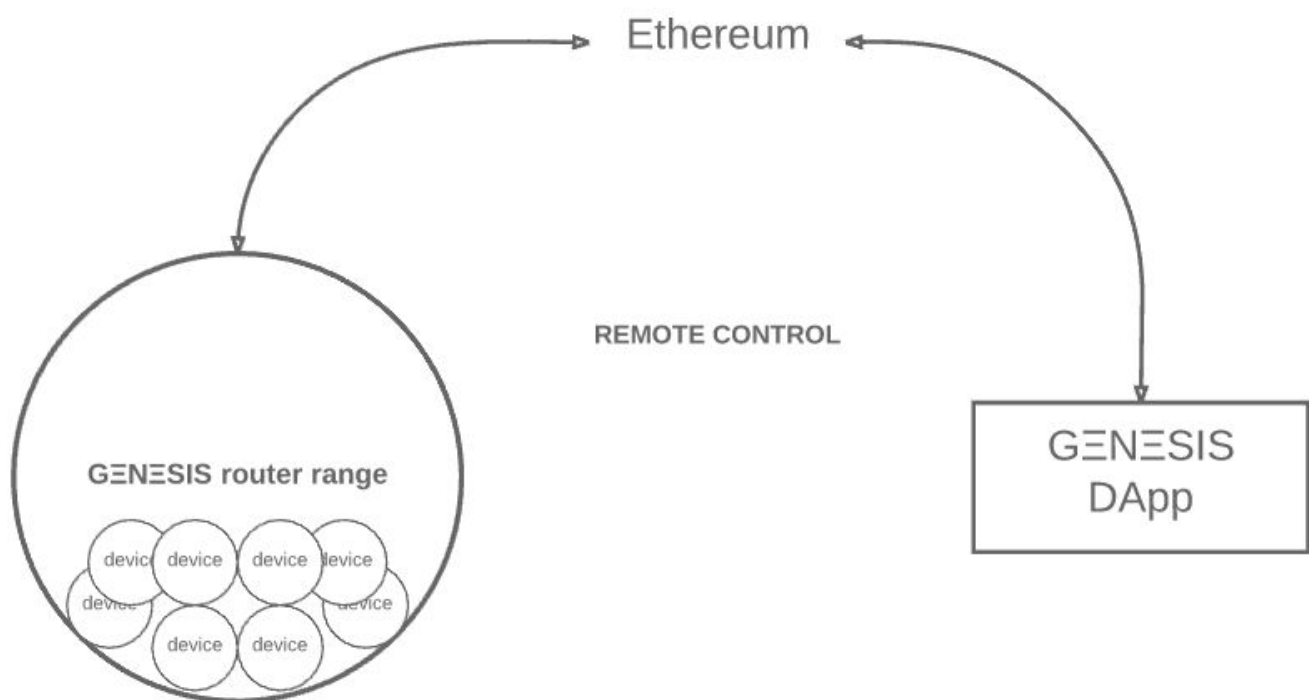
you add a new smartphone, all IoT device settings will automatically be transferred to the new smartphone.

Also, the account will store the authentication data of the connected devices, in the event of the theft of devices, no one other than the original owner can connect and use the device in another network.



Remote control will also be through the router, sending data to the decentralized network (GENESIS account). The choice of using the application in the phone or desktop client is left to the user. The main user (owner) can add other users and assign them certain permissions. One of the main problems in most IoT systems / products is the security of data transmission between devices, there are risks of analysis and interception of network traffic (man-in-middle). Also, there is a

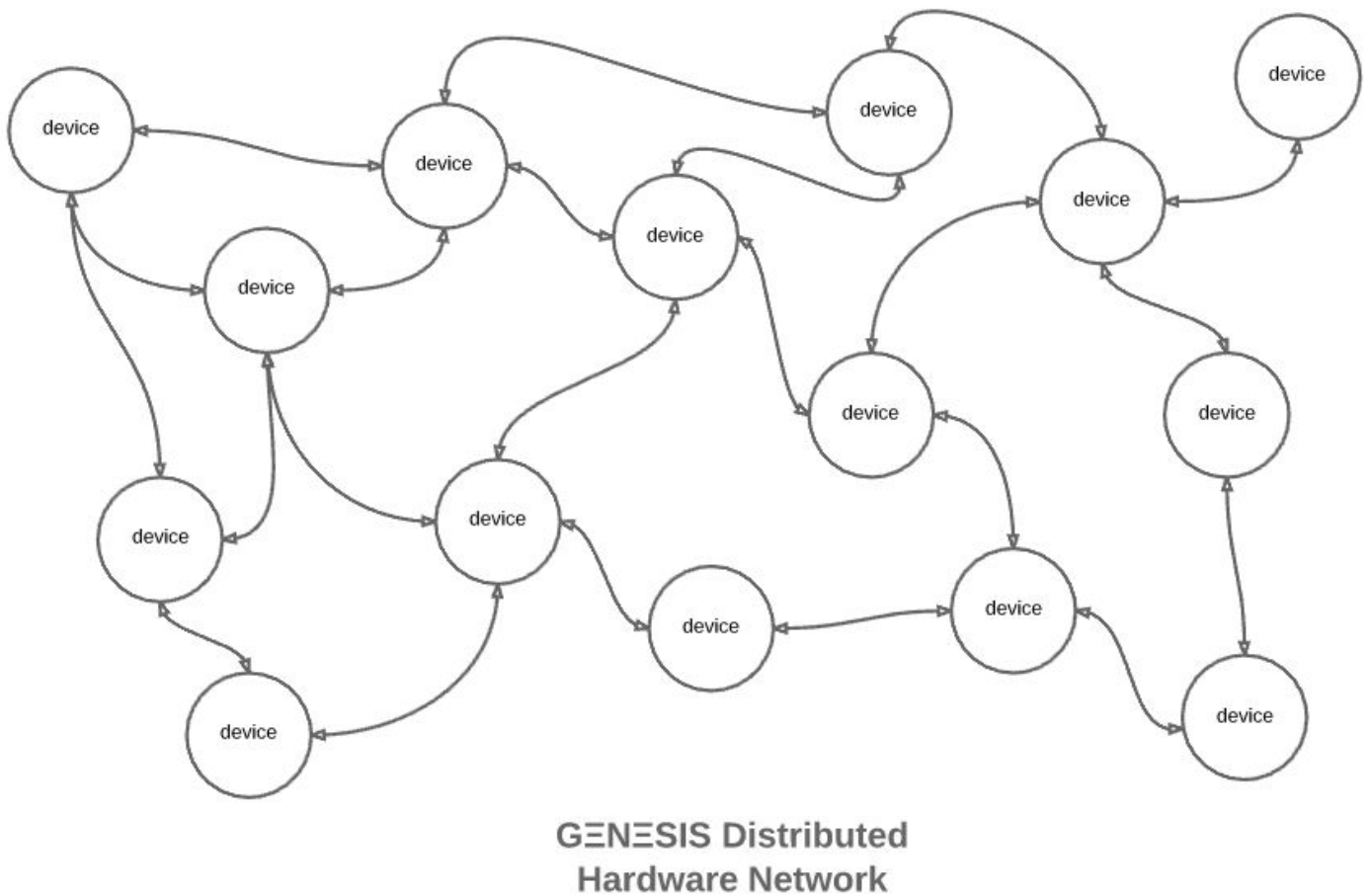
question about storage of the data and their confidentiality on the centralized servers of the large companies. Using blockchain and Ethereum smart contracts, we will implement anonymous and secure authentication of the client and its managed devices.



GENESIS Distributed Hardware Network

In the future, when our network reaches a certain size, our goal is to go beyond localization (houses, state institutions, industry) and develop a network of devices in

the streets of cities, which will operate on the principle of mesh topology and associated with the network GΞNΞSIS. Each device will be a member of the network that receives a wireless signal from other devices, and at the same time can distribute it to other participants (devices) network.



Profit

The profit for GΞNΞSIS will be the organization of the ecosystem between consumers and service providers. For example, the technique (household, industrial) that the client will buy, will include the function Self Maintenance. In

case of a breakdown (for example, a washing machine, a refrigerator in a home), a request will be automatically sent to the technician directly to the local distribution center of the electronics manufacturer, for repair, or to request immediate replacement.

Also Self Maintenance will keep statistics of breakdowns and provide it to the manufacturer, this will help to the consumer, to use better products, and the equipment manufacturer will provide better service to its customers.

Phases of development

- The first stage will be development of the software for sending requests through the Ethereum network, the development of the prototype GΞNΞSIS-router, and creation of a desktop client and a mobile DApp so that you can manage, receive metrics and the state from the device using the GΞNΞSIS account.
- The second stage, the PR-campaign of technology, as well as the stimulation of the electronics manufacturing companies and the subsequent cooperation with them (described above), and development of new and sought-after products on the market that support our technology.
- The third stage, the development of a network protocol for direct connection from the device to the decentralized network GΞNΞSIS, for complete independence from Internet providers.
- The fourth stage is the globalization of GΞNΞSIS Distributed Hardware Network.

Pre-ICO stage

- Development of a financial system for investors participating in ICO
- Creation of Genesis website, own blogs (Medium, Golos.io, Steemit), and individual branches on Bitcointalk and Reddit, which will regularly publish all our news and reports (partnerships with companies, development stage, etc.)
- Conclusion two-way partnership with a transceiver manufacturer (for example, Espressif)
- Conclusion of a bilateral partnership with a consumer electronics company
- PR-campaign

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