

FidesInnova

A platform for decentralized
trusted IoT systems



INTERNET OF THINGS (IOT)

SHARING DATA

Fides Service Contracts: Unlocking Innovation and Monetization Opportunities

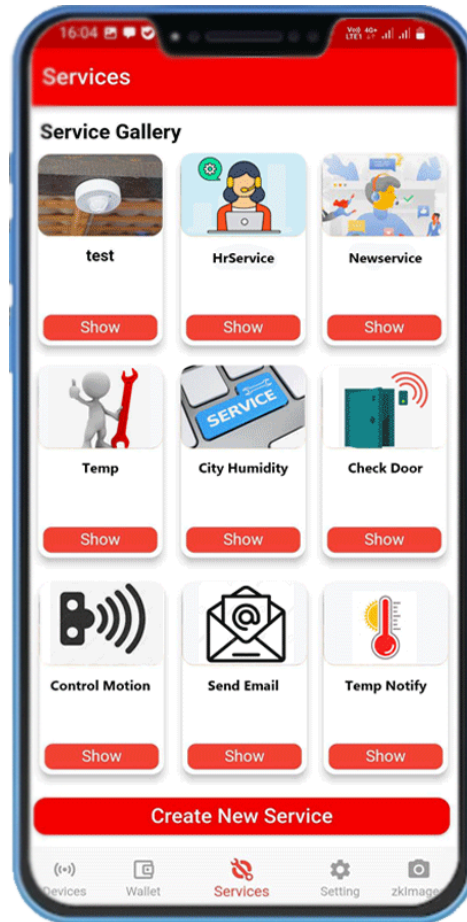


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FidesInnova introduces a groundbreaking feature – Fides Service Contracts. Service Contracts are scripts designed to encode business logic between IoT devices, enabling them to communicate and share data without a central authority. These contracts perform the same functions as Smart Contracts, but specifically within the decentralized IoT domain. Executed through Fides Blockchain Nodes, Service Contracts leverage a Virtual Machine capable of running JavaScript. This functionality enables the creation and execution of intricate interactions between IoT devices and users, thereby enhancing adaptability and functionality within the blockchain.

How to use Fides Service Contracts?

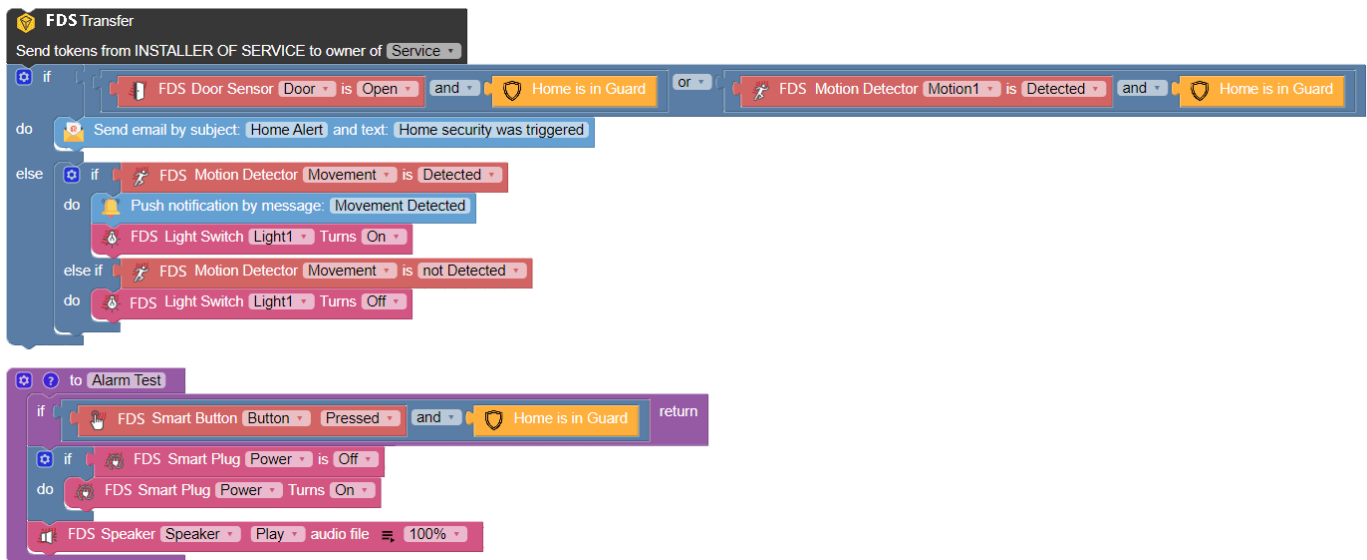
1. Fides Mobile App: Fides Service Market is a hub of diverse services accessible through the Fides Mobile App. It provides users with a variety of prewritten services to explore and implement based on their needs. These contracts enhance IoT device capabilities by automating data exchanges. More advanced users who want to create their own services can use the Fides Web App to write a new service and share it with others in the Fides Service Market.



2. Fides Web App: Fides Web App offers a versatile platform for a dynamic programming environment for creating Service Contracts. The Fides Web App empowers users to develop automated solutions for data exchange between devices and users.



– Visual and Text-Based Development: The Fides Web App accommodates novice and experienced developers at the same time, allowing code creation through Blockly or JavaScript. The Visual Console, utilizing Blockly, offers a graphical development console, while the Coding Console, based on JavaScript syntax, caters to traditional coding methods.



– Community Collaboration: The Fides Web App promotes the sharing and collaboration of Service Contracts within the FidesInnova community, fostering an environment of innovation and collective growth. Moreover, the Service Creator feature enables the monetization of various data types, promoting income generation by sharing data.

Example of Fides Service Contracts in Action:

– Temperature Sensors: Utilizing the Service Creator within the Fides Web App, users can create a weather map based on living environment data. By selling this data to customers, weather data and Service Contracts can be monetized, showcasing the practical and commercial potential of the Fides ecosystem in leveraging IoT data.

Technical details:

Isolated-vm Integration: FidesInnova employs isolated-vm to execute Service Contracts, isolating them from the Fides Blockchain Node. It prevents errors or resource leaks in service contracts from affecting the overall system, ensuring optimal performance.

Multiple Isolated Contexts: FidesInnova will create multiple isolated contexts within a single Node.js process to mitigate the risk of runaway code consuming excessive resources. This approach allows for the independent execution from multiple instances of a Service Contract to enhance system stability.

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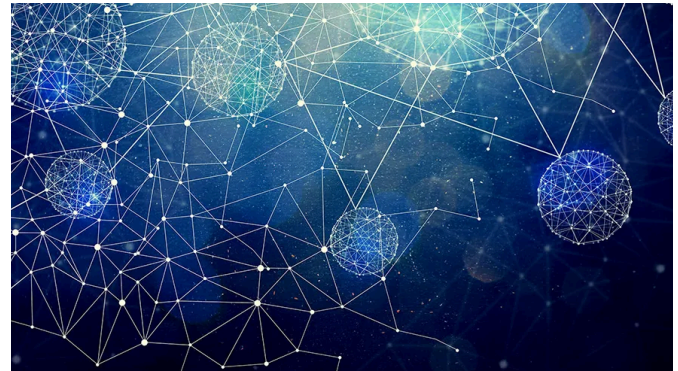
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