Decentralize the enterprise from the heart of Berlin

T-Labs announces project with major blockchain startups.

The blockchain group, from the Deutsche Telekom Innovation Laboratories (T-Labs) launched its prototype operating stack service this week at the Bosch Connected World (BCW) 2018 conference and hackathon. The service was created to simplify the decision-making process for developers wondering which blockchain technology to use in their projects. Instead, developers can concentrate on building their applications.

Despite the hype across the enterprise world, the usage of Distributed Ledger Technologies (DLT) is still minimal. Companies are just starting to consider the actual benefits, but they are confused by the multitude and complexity in this nascent tech space. John Calian VP blockchain at Deutsche Telekom says "enterprises and developers alike want to quickly use the benefits and features of blockchain technology to make their ideas happen without worrying about the underlying complexity of combining different decentralized technologies. That's the job that we took on, and the services that we will bring to the enterprise will be consistent with the types of infrastructure we already provide."

Building the Stack

Starting in November 2017 T-Labs has launched the development bringing together a group of blockchain startups to build the prototype operating stack. Benefitting from the expertise in Berlin, T-Labs partnered with BigchainDB, IOTA, Jolocom and Riddle & Code

„With the product of T-Labs I could enable the essential functions of IOTA within minutes and focus on building my blockchain-based application for global logistics tracking", - Ryan Pierre, a Toronto-based software developer

to abstract the complexity of blockchain development for enterprises. With the prototype developers can combine different DLTs to enable decentralized storage, identity management, smart contracts and payments. This allows enterprises to build a decentralized backend in a matter of minutes.

The current prototype allows for basic storage of data and hashes on a DLT of choice. In the next steps of development, the following functionalities are possible: advanced storage options, identity management and modelling of ownership structures, smart contracts as well as decentralized payment.

„Having the operating stack at the hackathon showed how Enterprises can benefit from flexible blockchain implementations for their services", - Antonio Martinez, Senior Solution Architect at Bosch Software Innovations

Project Partner Descriptions

T-Labs is a research center aiming to bring innovative ideas and cutting-edge technologies to the market. By initiating the prototype operating stack, T-Labs together with IMPAQ is building on this tradition to bring the potential of blockchain enabled decentralization to the enterprise.

BigchainDB provides a solution for decentralized and immutable storage for data-rich blockchain use cases in a permissioned environment, giving you the look and feel of a classic database with added blockchain characteristics. The T-Labs prototype significantly facilitates and harmonizes the setup and deployment of a BigchainDB network, making it available for the enterprise audience.

IOTA provides the integration of its distributed ledger technology as a storage option for hashes in the T-Labs prototype. With the provided prototype, integrating IOTA into your software stack becomes flawless.

Jolocom provides a modular solution that enables individuals, organizations and things to get a backend-agnostic self-sovereign digital identity. In the T-Labs prototype Jolocom provides the tool to create and securely verify claims about an identity. This allows to model trustable complex relationships between them (e.g. ownership structures of IoT devices with organizations/individuals). Modelling these relationships with a self-sovereign solution enables a frictionless bridge between different ecosystems and network environments.

Riddle & Code provides blockchain solutions for IoT through dedicated soft- and hardware. They apply sophisticated security measures used extensively in the credit card industry to bring immutable Identity of Things into the blockchain ecosystem. By that, they enable complex ownership modelling in unprecedented ways.