RAILZ

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railz.org

A language for robot conversations

A blockchain-based next-generation protocol for a trillion machines to talk, negotiate, and deliver the internet of things economy.

Why Railz?

The internet of things is set to explode as an economic opportunity.

Rapid advances in artificial intelligence and machine learning are delivering transformational change facilitated by IoT devices and networks.

By 2020 the number of IoT devices is expected to exceed 50 billion.[1]

IoT is forecast to generate $11 trillion of annual economic benefits by 2025.[2]

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1 Sparks. *The Route to a Trillion Devices*. ARM Holdings. June 2017

2 Alsen, Patel, and Shangkuan *The Future of Connectivity: Enabling the Internet of Things.* McKinsey & Company. November 2017.

Current technologies and protocols can’t keep up

Current technologies and protocols can’t keep up due to scale issues.

Interoperability problems due to a current lack of suitable standards.

Scale problems as the number of forecast devices explodes.

Machine-to-machine exchanges still primitive.

Historical centralised topology chokes growth and introduces unnecessary risk.

Introducing Railz

A decentralised next-generation transaction protocol for machines, designed to scale.

Decentralised using the Ethereum blockchain and designed to scale.

Next-generation consensus algorithm allows machines to ‘negotiate’ rather than simply agree or disagree.

Enables IoT devices to self-organise and configure themselves into complex supply chains.

Transmission protocol delivers 30x throughput on Ethereum network under test conditions.

For more information on the technologies behind Railz, see our Yellow Paper at: railz.org/yellow-paper

Proprietary technologies

Railz incorporates two core technologies which enable negotiations at scale between machines.

High throughput

Railz uses a proprietary protocol to deliver higher throughput on the existing Ethereum network of approximately 30x.

Machine-negotiated consensus

Railz uses a new, proprietary, patent pending consensus algorithm to move beyond the standard ‘smart contract’ and deliver sophisticated negotiations between machines. Support is offered for complex payoffs.

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The RLZ token

RLZ is the token used to perform utility on the Railz network. Fractions of RLZ are known as Rivetz.

Ethereum compliant

RLZ is implemented as a fully compliant ERC20 token and benefits from the Ethereum roadmap and compatibility with the blockchain ecosystem.

Rivetz and RLZ

Every time the outcome of a machine-to-machine conversation (or negotiation) is reached, then Railz network levies a utility charge deonominated in fractions of RLZ tokens, known as Rivetz.

Token supply and allocation

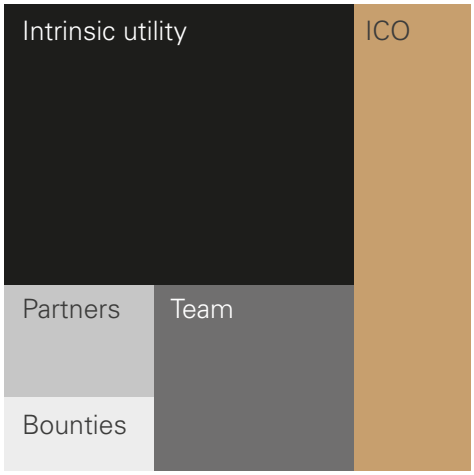
Total supply is digitally limited to 2 billion tokens with 75% reserved.

Supply

75% of tokens reserved
25% offered for sale

Allocation

45% reserved for intrinsic utility
6% reserved for partners
4% reserved for bounties
20% reserved for team
25% offered for sale in three stages



The chart above shows allocations in proportion to total supply.

Token sale

Three sales stages with progressively lower discounts.

Pre-ICO Series A:
30 million RLZ offered for sale at
ETH 0.00006
(70% discount to par).

Pre-ICO Series B:
120 million RLZ offered for sale at
ETH 0.00008
(60% discount to par).

Full ICO:
350 million RLZ launch price
ETH 0.000196
(2% discount to par).

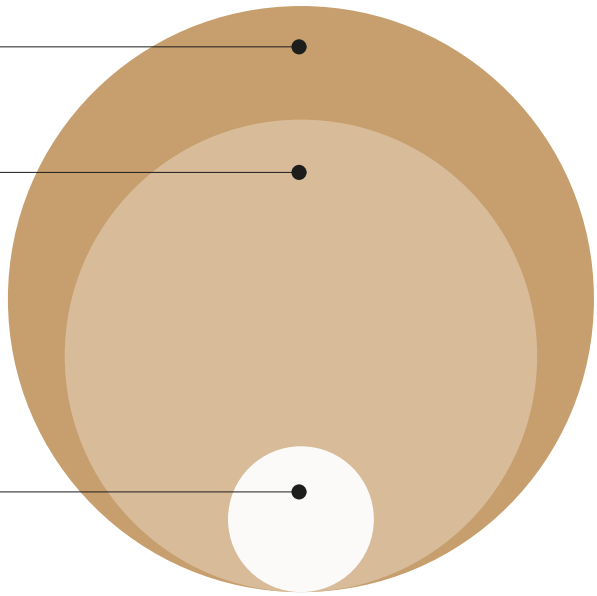
Hard and soft caps

Maximum raise of ETH 100,000 with low soft cap.

Hard cap:
ETH 100,000

Target raise:
ETH 65,000

Soft cap:
ETH 6,200



Core team and Advisors

John Corr, Founder and CEO
John is the primary founder and CEO of Railz, and is named on the patent applications for its machine-negotiated consensus algorithm. As a business leader he has built large global enterprises in financial services and logistics, and has driven growth to billions of dollars in revenues.

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Phil Millo, Co-Founder and Advisor
Phil is the co-founder of Railz and named on the patent applications for its machine-negotiated consensus algorithm. He is a recognised expert on blockchain technologies and financial structuring, and speaks regularly on these subjects. In the 1990s, he was voted one of the top 100 most important people to have driven the first decade of the commercial internet

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Vignesh Iyer, Chief Blockchain Architect
Vignesh is an expert in advanced IoT and blockchain applications, and combining blockchain, artificial intelligence, and machine learning technologies for high impact commercial solutions. He leads the Railz technology team of 45 specialist blockchain and IoT programmers and 10 quality assurance professionals.

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More information

Learn more about the Railz vision and how you can leverage our technologies to supercharge your internet of things enterprise.

Technical ‘yellow paper’
railz.org/yellow-paper

Business plan and model
rail.org/business-plan

Videos and interviews
railz.org/videos


Railz

A High Throughput Negotiated Consensus Protocol

The Railz yellow paper details the machine-negotiated consensus algorithm and high throughput protocol.

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