

Squeezer Whitepaper



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Executive Summary

Blockchain technology is evolving from primarily a cryptocurrency platform becoming a core component of many enterprise companies' technology stacks. Two of themain strengths of this new technology are data immutability and multi-directional scalability, both vertically and horizontally, and blockchain manages both of these aspects flawlessly.

For example, imagine that you are required to create a service that is supposed to read and write data to the blockchain, and that thisservice will receive a significant number of requests over a short time frame. Blockchain technology can handle this scenario without issues; however, the same cannot be said forconventionally-designed data services.

Secondly, issues often arise when you wish to connect your service or application to the blockchain and require it to read and write some specific data. Currently, this is achieved by employing a sophisticated mechanism that downloads the entire blockchain-transaction log onto the developer's machine or server storage and breaks down every block, line by line, requiring a huge amount of time and expense.



Vision

At Squeezer, we are creating a single, unified blockchain-connector that will allow developers to connect to multiple blockchains. We also offer a sandbox in which developers can test their applications and make rapid production deployments.

Squeezer applications are powered by microservices platforms, such as AWS Lambda and Google Functions, which means that the auto-scalability feature is enabled by default. Microservices also support auto-healing and allow for silent cloud deployments.

The Squeezer Platform will empower developers to compile and deploy blockchain applications in multiple stages directly from GitHub, among other code repositories.

Background

In 2015, our founder and CEO, Nick Chisiu, came up with the idea to create a **framework** that would be able to develop, compile, and deploy traditional projects on microservices platforms. By providing consultancy services to various top 1000 US INC companies, he was able to implement the framework in production environments and sustain unlimited requests based on real users' demands.

In 2017, Nick joined **ConsenSys**, a top-five blockchain development company, as a blockchain consultant. By providing consultancy services and delving deeply into blockchain technology, he discovered a connection between microservices and blockchain, adding the Proof-of-Concept (PoC) for the blockchain connector.





At around the same time, Nick assumed the role of CEO and technology-lead at Squeezer and dedicated himself to the company full-time. His direction for the Squeezer Project is clear: deliver the roadmap and ensure that the development team creates robust, flawless components for blockchain interaction.

The problem

Complexity

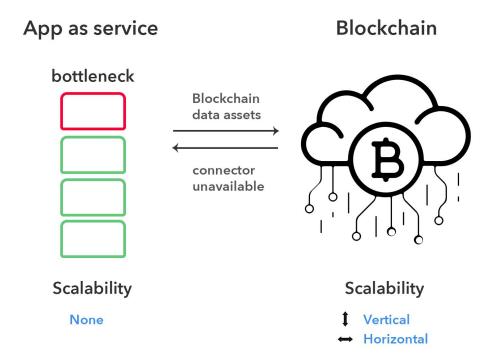
As a relatively new technology, blockchain development presents a number of challenges. In order to start developing a blockchain project, an individual needs to download all the blocks onto a machine's local storage (which for BTC represents 400 GB; for ETH–100 GB; and for LTC–200 GB approximately) which will eventually decrease the developer's velocity. Replicating this within the production environment represents another complex task; the developer now needs to create both a stable environment and containers that can replicate hundreds of gigabytes.



Scalability

We already know that blockchain technology can scale both vertically and horizontally.

But, how about the rest of the technology stack?



For instance, let us say you have a service that needs to write the numbers of votes on a specific pool into the blockchain. Everything happens in real time. It is already established that blockchain can support any number of 'reads' and 'writes'. Yet, there is a wrapper on the front of the blockchain interaction, which, for instance, could be an API endpoint that triggers the blockchain. At a specific number of requests, that endpoint will eventually crash, because it is not designed to scale automatically, as the blockchain is. Of course, there are many possible solutions to such a problem, but they generally require a lot of extra time and resources.



Connecting to blockchain

Beside the auto-scalability issue, there is one more concern related to reading and writing data to the blockchain.

Blockchain data is stored in logs and each block consists of a log of transactions. Regarding Bitcoin blocks, for example, every 20 minutes, a new block is generated. Imagine that you need to retrieve all transactions for a specific wallet address. To do this, you would need to set a node and parse all available blockchain data, which requires a phenomenal amount of computing power. Third party vendors are now offering API services for doing such jobs. However, when dealing with sensitive data, it is better to find and implement a solution that is hosted on the same datacenter network as the rest of the technology stack in order to ensure that all data is accounted for.

The solution

Microservices

What Are Microservices?

With a microservices, a type of service oriented architecture, software is built in smaller loosely coupled segments, rather than one large monolith. By segmenting key parts of a software, you can silo and decentralize a suite of software products that work independently, but they can also work in tandem when necessary. It also allows for smaller more focused teams that can work more independently. "Microservice architecture is an approach to developing a single application as a suite of small services, rather than as one large product,". Essentially, microservice architecture is a method of developing software applications as a suite of independently deployable, small, modular services, in which each service runs a unique process and communicates through a well-defined, lightweight mechanism to serve a business goal.



The top cloud companies have already designed platforms where you can deploy auto-scalable code pieces. Among the various microservices platforms are <u>AWS</u> <u>Lambda</u>, <u>Google Functions</u>, and <u>Azure Functions</u>.

Microservice Pros

- Better Organization: Microservice architecture usually results in a more organized development environment. Everything has its place — but they keyword here is usually, as microservices can get just as messy as a monolith.
- Better Performance: Under the right circumstances, microservices can also have performance advantages depending on how they're organized because it's possible to isolate hot services and scale them independent of the rest of the app.
- Leaner, More Targeted Teams: With microservice architecture, a small team is often in charge of one or a small group of services, which can enhance agile and SCRUM development strategies.
- Easier to Scale: Microservices are highly scalable, and easy to use with containerization technology such as Docker. Plus, you can scale parts of your software product independently.
- Decoupled Services: Microservices are decoupled, which means they can be modified independently and can individually serve the purposes of different apps.

Microservices Examples From 3 Big Brands

An increasingly large amount of developers are choosing microservice architecture, including brands like Netflix1, Facebook and Amazon. We also probed Rector, a former Google employee, about their take on microservice architecture: "[Building



microservices] was 'the way we do things' at Google when I joined in 2006," Rector says.

He went on to add, that the architecture is most useful for the sort of cloud, mobile and SaaS applications that are reaching into other industries now. "It's relatively less common in telephony companies, for example, since most predate the cloud," he says. Here's a closer look at how some of these big brands are leveraging microservices architecture to deliver experiences at scale.

1. Netflix

Netflix, the movie and video streaming service, is one of many global brands that embraces microservices architecture. According to the <u>Netflix Medium blog</u>, the Netflix Content Platform Engineering team, "runs a number of business processes which are driven by asynchronous orchestration of tasks executing on microservices."

2. Uber

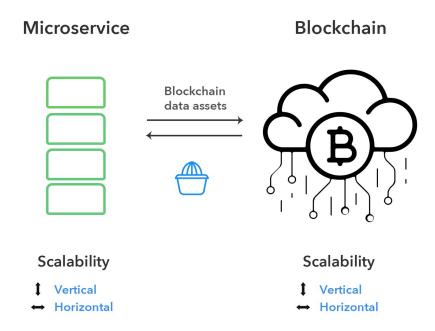
Uber's taxi-hailing app spans the globe, but it's not built as one, gigantic monolith. Uber adopted microservice architecture and <u>explained</u> that, "this [microservice] design pattern enforces the development of small services dedicated to specific, well-encapsulated domain areas. Each service can be written in its own language or framework, and can have its own database or lack thereof."

3. Groupon

Coupon giant Groupon transitioned from monolithic architecture to microservices architecture back in late 2012. They migrated their U.S. web traffic from a monolithic Ruby on Rails application to a new Node.js stack with substantial results. After the move, <u>Groupon reported</u> that "page loads are significantly faster across the site [and] our development teams can develop and ship features faster and with fewer dependencies on other teams."



When you combine the power of microservices scalability with blockchain technology, the result is a finely-tuned stack that can basically support any enterprise organization, at any level.





The Squeezer Framework

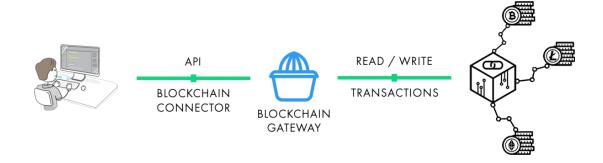


The Squeezer framework is currently being successfully utilized on large web and API projects that scale and expand as microservices. However, to integrate it with the blockchain, we need **connectors** so that a microservice can trigger a specific blockchain action.

Building some robust, reliable connectors that can process any amount of blockchain data or any number of requests within a reasonable time frame is not an easy task because of a blockchain's size, as well as the variety and number of blocks it contains. Nonetheless, we know that it is achievable with the right numbers and types of resources assigned to the job.



Blockchain Connector



The solution of connecting microservices to the blockchain involves creating a simple interface that will enable software developers to conduct blockchain transactions without having to deal with the blockchain genesis code or create complex components.



Use cases



Payment

Online retail choose to integrate blockchain payments support available for high intensive orders.

Keys: Quick integration, Scalability, Security



Gaming

Store gaming online statistics data, tournaments results and user profile for later usage.

Keys: Quick integration, Scalability, Availability, Security



Voting

Government of a country needs to provide a blockchain voting system for various elections.

Keys: Quick integration, Scalability, Security



Banking

Keep & access immutable client information, bad credit and fraud information.

Keys: Quick integration, Security, Sensitive data



Healthcare

Store patient sensitive health data on blockchain and make it available for later usage.

Keys: Quick integration, Availability, Security



Security

Access trough popular security features like iris or fingerprint backedup by the blockchain immutability.

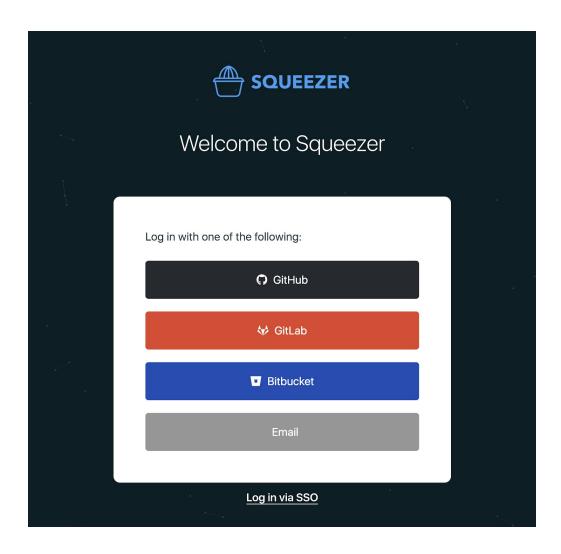
Keys: Quick integration, Accessibility, Security, Sensitive data

Platform

Login and SSO

The Squeezer platform will support multiple code repositories integration and SSO third-party vendors.

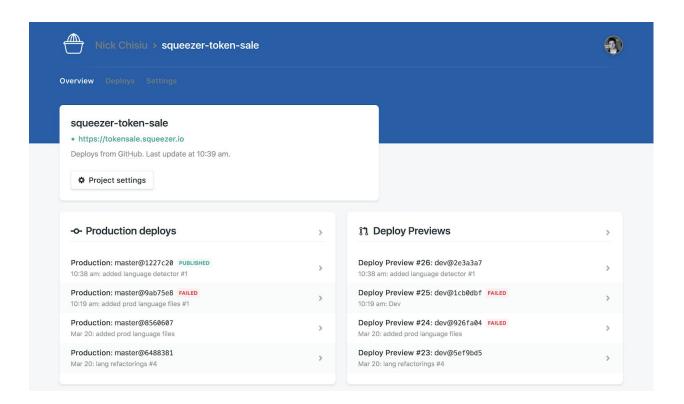




Overview

The "overview" dashboard will display information about current deployments split into multiple stages; this way, a project's team is in-sync for the entire development cycle.

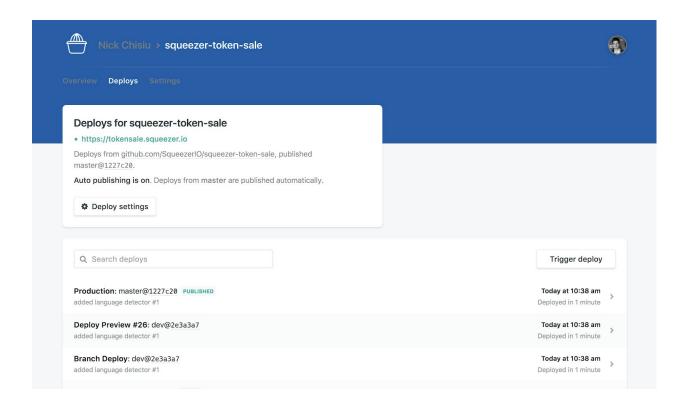






Deploys

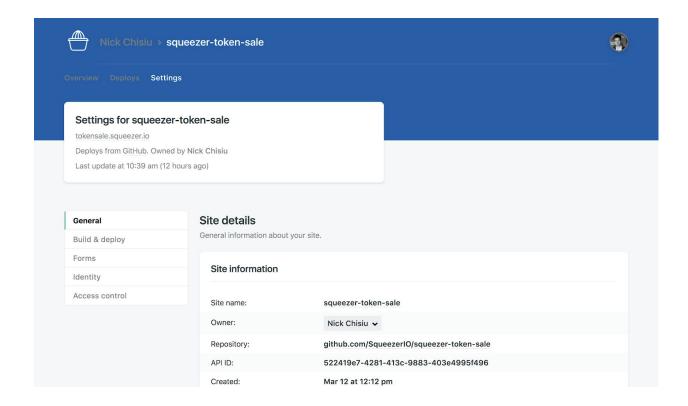
This section will allow developers to get more detailed information about the deployment in progress. They can trigger retries on a specific deployment or clear the deployment cache in order to fix crashed builds.





Settings

The settings section will provide most of the required input fields to make the developer's experience of the platform as straightforward and intuitive as possible.





Competitive advantages

A few microservices frameworks currently exist, but none of them are blockchain oriented and neither have they signalled on their roadmap that they intend to facilitate blockchain integration in the future.











Name	Туре	Blockchain Integration	Relative Popularity	Difficulty of Learning
Squeezer	Framework	Supported	***	**
Serverless	Framework	None	****	****
ClaudiaJS	Framework	None	***	***
Stdlib	Library	None	**	**
Apex	Framework	None	***	***



Principal features of Squeezer



Zero administration

Deploy your code without any lengthy set-up beforehand or anything to manage afterward.



Blockchain

A truly revolutionary framework, Squeezer is the first platform that merges the power of microservices with the immutability of blockchain technology.



Development Climate

Simulate the cloud provider environment on your local machine. No need to deploy code at every iteration. Speed up the entire development cycle by 10x.



Pay-per-use

Function-as-a-Service (FaaS) computing and managed services charged based on usage rather than pre-provisioned capacity. You can utilize all your resources without paying a cent for idle time.



Token

The Squeezer Token (SQR) is the core utility used by developers to build and deploy apps on the Squeezer Platform.



Scalability

Let your service providers manage the scaling challenges. No need to set alerts or write scripts to scale up or down. Have absolute peace of mind during periods



of high or low traffic.

Business model

Summary

Squeezer is designed as a middleware between blockchains and traditional software. There are so many companies looking for solutions to integrate blockchain into their own software, such as gaming companies, social network companies, etc. The pain point is, blockchain developers are extremely rare resources, and the salary is too high. Those who are capable of leading a development team can make 80k USD a month in Shanghai. A blockchain developer in Silicon Valley is making 250-300k USD a year. Even so, it is still challenging to hire these talents, and gathering a team is a harder task.

Developing Squeezer to be an easy solution for such integration can fill this gap, which has huge market potential. It empowers companies and developers to integrate morden blockchain technologies into their products in an efficient and cost effective manner. It is the gateway for blockchain technology mass adoption.

Squeezer will be designed and implemented easily to integrate with software suite such as SAP, Oracle, Microsoft, etc. It will connect with the most advanced blockchain technologies in the backend, such as ZIL, XML, EOS, FAB, LoomX, Moac, etc. Squeezer is sophisticated and well designed. It takes care of all the dirty work such as server preparations, etc, and presents only simple, easy to use and solid built APIs in front of the end users.

In Squeezer platform, tokens are not just to fuel the platform. It is a truly collaborative platform designed to benefit all supporters and contributors. SQR tokens will be brought back and burned every 6 months with 25% of profits generated in Squeezer platform until 40% of total SQR is brought back.

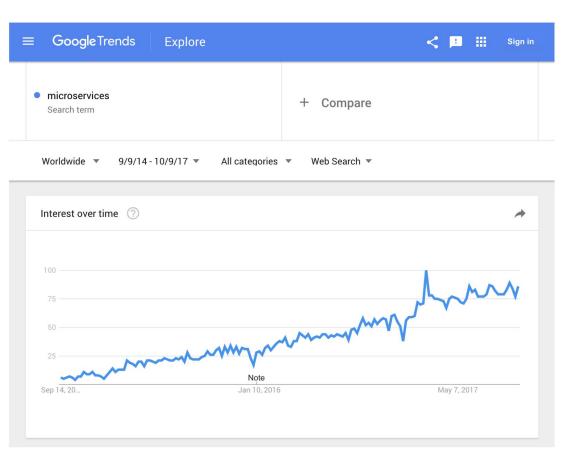
Business and technical consulting firms are looking for opportunities to dive into the blockchain world. Squeezer as a solution to be their most cost efficient and accessible resources can help them get into the blockchain business easier and faster, because the first movers usually take



the bigger pie in the game. By partnering with leading consulting firms, world leading software vendors, and blockchain firms, Squeezer platform is going to be very profitable and SQR tokens are going to be very valuable.

Microservices adoption

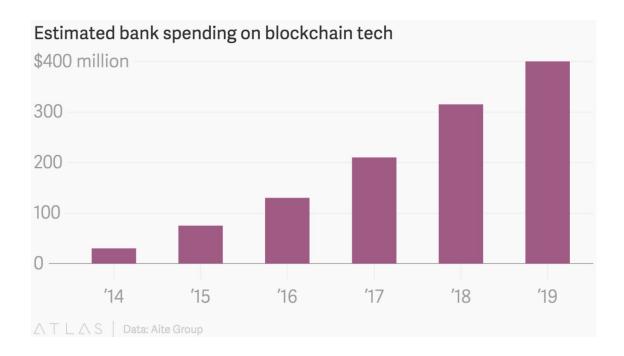
The microservices trend is gaining momentum and a large number of corporations have adopted the technology as a core component of their infrastructure. Google Trends shows us that the interest in microservices has increased significantly over the last three years.





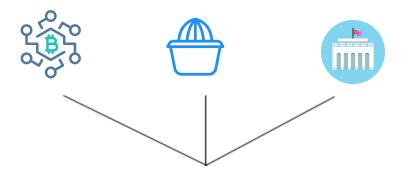
Blockchain consultancy

The number of companies implementing blockchain technology has increased significantly across a range of sectors, and the demand for blockchain software developers is growing in response to this. The following chart displays the amount spent by the banking sector on blockchain technology over the past five years. When you add in the amounts that governments, corporations, and other vendors have spent on blockchain, the total was approximately **five billion USD** in 2017.





Market



Our goal is to ensure that our clients can harness the full potential of cloud providers, blockchain technology, and the Squeezer framework by providing them with our professional consultancy services. By offering the ultimate technology stack to our clients, we can streamline the integration of blockchain technology into their current enterprise systems.

ICO & Token sale projects

ICO projects are in high demand right now. Usually, these types of projects require rapid development and stable implementation to keep up with the hype and the huge number of blockchain transactions. Squeezer can offer the quickest back-end solutions through APIs and blockchain transactions support.

Exchanges

The current cryptocurrency exchanges are experiencing difficulties caused by large transaction volumes over short periods of time. It is no secret that the largest exchanges have scalability issues, and they therefore have to block new user registrations from time to time. Squeezer offers a solution by integrating microservices into the core of transactional systems.

Banks and financial institutions

Banks are certainly interested in blockchain technology. However, most of the financial institutions we have surveyed are still in the early stages of adoption, with about three-quarters either involved in outlining a proof-of-concept,



formulating their blockchain strategy, or discussing the technology at an even more preliminary stage. Squeezer represents the best tool to streamline workflows and deliver relevant insights to banks about how transactions are processed through the blockchain ecosystem.

Token usage

Summary

Squeezer will be similar to the PayPal for the credit cards, but blockchain transactions .

Squeezer will provide real time transactions support on different blockchains, the quickest integration at the moment on the industries (blockchain connector). This is not a merchant or a similar platform , we offer an end-to-end user integration, so we don't bridge transactions, the user will interact directly with different blockchains. Even it seems a trivial idea nobody did it, and the ecosystem is bagging for such kind of platform. This kind of platform is builded in mind with support for high request number of transactions backed by microservices (exchanges and other similar platforms are the main target). Another great feature is that you can access smart contracts methods directly from the connector, you can build a voting system dApp in minutes. Squeezer is about the simplicity, scalability & the velocity offered to the developer in a friendly manner to build dApps. The modern dApp requires blockchain transactions support and smart contracts, we got them both, plus we offer you the rest of the technology stack to build the dApp

Each blockchain successful transaction that goes through our platform (in/out) will be billed on a fixed rated on a pay-as-you-go tier. Additionally we will have standard subscriptions to host dApps + monthly support services package (similar AWS). All the consultancy services will be payed with SQR token. SQR token will be the only payment method available on the website.

Payment type - PAY AS YOU GO

In order to keep the pace with serverless pricing method the best would be to set it for pay-as you-go.



Pay Per Transaction (Payments in/out, Smart Contracts calls ... etc.)

Transaction FEE = 0.5 SQR

Road map

February 2016: Create framework principles and add base functionality

September 2016: Offer Proof-of-Concept and plugins integration

October 2017: Release stable version and cloud providers

May 2018: Token pre-sale crowdfunding stage

June 2018: Public token sale

July 2018: Hire additional developers to build the blockchain cloud connectors

February 2019: Deliver the blockchain cloud components and connectors

April 2019: Enable subscription purchases with the SQR token. Start to build apps to connect to the blockchain



Crowdsale

The Squeezer crowdsale and the corresponding token creation process will be issued by **Golden Data INC**, a Belize Company, and will be organized using smart contracts running on Ethereum. Contributors willing to support the development of the Squeezer Project can do so by sending payments via multiple methods (see below). The rate for SQR tokens is fixed at 1 SQR = 0.20 USD. The tokens are automatically transferred to the purchaser's nominated Ethereum wallet at the time of purchase.

Payment methods

Contributors can purchase tokens with **cryptocurrencies** (BTC, ETH, or LTC) or by **credit card** (Visa, Mastercard).

Token distribution

Token sale:

75,000,000 SQR (40%)
At the end of the token sale,
all unsold tokens will be burned.

The Squeezer Platform:

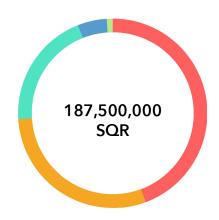
56,250,000 SQR (30%)
The reserve required to ensure the operation of the platform.

Locked in smart contract with sale restrictions for 12 months.

Team:

37,500,000 SQR (20%)

Locked in smart contract with





sale restrictions for 24 months.

Advisors:

9,375,000 SQR (5%)

Marketing & partners:

9,375,000 SQR (5%)

Token proceeds

- Technical development: 45%
- Non-technical staff: 30%
- Marketing expenses: 10%
- Infrastructure expenses: 8%
- Other operating expenses: 7%

Token pre-sale

The token pre-sale period will last **17 days**. If all the available tokens are sold during the pre-sale, the public token sale will not take place and the roadmap will be re-adjusted



accordingly. If the pre-sale campaign does not reach the minimum goal of **9,375,000 SQR**, all payments will be refunded to investors.

Public token sale

The public token sale will follow the pre-sale token campaign. The public token sale period will last **30 days**. Any tokens that are not sold during the public token sale will be burned.

Issuer	Golden Data INC
Jurisdiction	Belize
Token type	Utility (not a security or equity)
Token name	SQR
Instant Token Delivery	Yes
Soft Cap	9,375,000 SQR
Hard Cap	75,000,000 SQR
Number of generated tokens	187,500,000
Token pre-sale start	14 May 2018 (16:00:00 UTC)
Token pre-sale end	31 May 2018 (16:00:00 UTC)
Token sale start	1 June 2018 (16:00:00 UTC)
Token sale end	30 June 2018 (16:00:00 UTC)



Legal

General

The Squeezer token does not legally qualify as a security, since it does not give any rights to dividends or interests. The sale of Squeezer tokens is immutable and non-refundable. Squeezer tokens are not shares and do not give any right to participate in the general meeting of **Golden Data INC**. Squeezer tokens are intended to be used to buy application subscriptions on the Squeezer platform. Any entity that buys Squeezer tokens expressly agrees and represents that she/he has carefully reviewed this white paper and fully understands the risks, costs, and benefits associated with the acquisition of Squeezer tokens.

Knowledge

The buyer of Squeezer tokens undertakes that she/he understands this white paper and has a minimum experience of cryptocurrency, blockchain systems, and services, and that she/he fully understands the risks associated with the crowdsale campaign as well as the workflow related to the use of cryptocurrencies (e.g. **secure storage**). Squeezer shall not be responsible for any loss of Squeezer tokens or situations that make it impossible to access Squeezer tokens, which may result from any trigger or from electronic hacking.

Disclaimer

This white paper should not be considered as an invitation for investment. There is no relation between the white paper and security in any jurisdiction. Trading the Squeezer tokens will not change the default legal qualification of SQR tokens, which always remains as a utility. All content in the white paper is designed for general information



purposes only and Golden Data INC does not provide any warranty as to the accuracy and completeness of this information. Golden Data INC is not to be considered an advisor in any financial, taxation, or legal objectives. Buying Squeezer tokens shall not grant any right or influence to the Buyers over Golden Data INC's organization and governance. Regulatory authorities are carefully auditing businesses and operations associated with cryptocurrencies around the globe. Accordingly, regulatory laws, investigations, or actions may affect Golden Data INC's business and even limit or prohibit it from developing its operations in the future. Any person undertaking to acquire Squeezer tokens must acquaint themselves first with Golden Data INC's business model. This white paper may change or need to be modified because of new rules and compliance requirements. In such a case, buyers and anyone else in possession of Squeezer tokens must acknowledge and understand that neither Golden Data INC nor any of its affiliates shall be held liable for any direct or indirect damage or loss to the buyer. While Golden Data INC will strive to follow the roadmap and build the platform, Squeezer token buyers acknowledge and understand that Golden Data INC does not provide any guarantees to the accomplishment of that goal.

KYC/AML

Participants who wish to purchase more than **5000 USD worth of Squeezer tokens** will need to pass the KYC/AML verification first. We keep KYC/AML verifications privately and securely stored on a cloud server.

Warranty

By contributing to the crowdsale campaign, the buyer agrees to the above and in particular, they represent and warrant that they:

- have read carefully the terms and conditions included in the white paper; agree to their full implications and accept to be legally bound by them;
- are authorized and are fully empowered to buy Squeezer tokens according to the laws/rules that apply in their domicile and jurisdiction;
- are neither a US, China, Canada and Hong Kong citizen or resident;
- live in a jurisdiction which permits Golden Data INC to sell Squeezer tokens through a crowdsale without requiring any additional authorization;

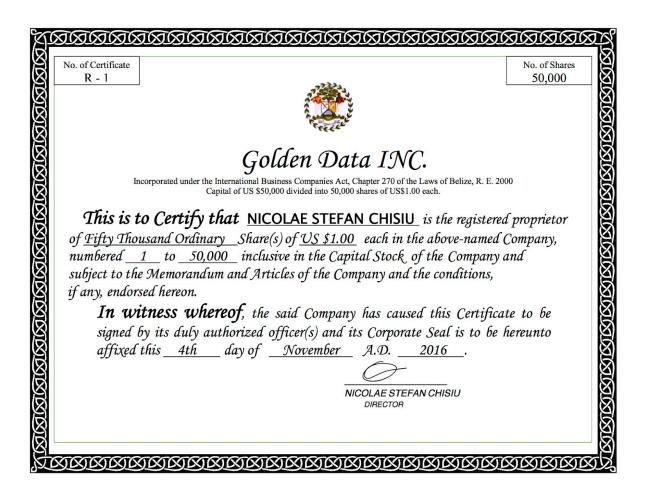


- are familiar with all related regulations in the public/private jurisdiction in which they are located and that acquiring cryptographic tokens in that jurisdiction is not restricted, prohibited, or subject to additional enforcements;
- will not use the crowdsale campaign for any illegal operation, including but not limited to financing of terrorism or money laundering;
- have sufficient knowledge about the specifications of the cryptographic tokens and have the minimal experience with, and functional behavior understanding of, the usage and dealings of cryptographic tokens and currencies and blockchain-based systems and services;
- buy Squeezer tokens because they wish to trade it or build blockchain apps in the cloud in future.

Governing law

Any dispute or issue arising from or under the crowdsale campaign shall be resolved/finalized in compliance with the Belize rules for IBC (as per the IBC Act.)





Cloud Providers

The Squeezer Framework does not have any legal or partner qualification with the specified cloud providers. Therefore, there is no association or relationship implied between Squeezer's token sales and the named cloud providers. Cloud providers are mentioned only for technical purposes and not for marketing purposes under any circumstances.



Team



Nick Chisiu

Founder & CEO

Nick is a specialist in microservices architecture, framework design, and blockchain development. https://www.linkedin.com/in/nick-chisiu



Flavius Fulea

Marketing Chief

Flavius is a former art designer with exceptional skills in digital advertising and social media content.

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Jeffrey Liu

Technical Advisor

Jeffrey is a software engineer, a blockchain expert, a crypto investor, and an entrepreneur. He is the director and co-founded Link Union Crypto Asset Group. He is the founder of Flurry Capital.





Igor Karavaev

Marketing Advisor

Former executive director of Skolkovo Foundation and ex-top manager in the largest international corporations.

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James Sowers

Blockchain Advisor

One of the most iconic figures of the blockchain industry, with multimillion angel investments in start-ups and ICOs, unparalleled mentor, philanthropist and reputable ICO and Blockchain top expert advisor.

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Advisor, Marketing & PR

Member of Israeli blockchain Association. One of the first and Top ICO Advisor from Bangladesh. Top 30 in people's of blockchain list.

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Product Owner and Communications Chief



Alexandru is a passionate and motivated engineer, with a solid background in the tech industry of over 10 years. During his tech career he worked on a wide range of projects, being involved in almost all aspects of a product development, starting from server administration to customer service, quality assurance and product delivery.

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Odi Onyejekwe

Business Developer

Odi works closely with the sales team to identify potential clients in the target market and complete necessary research on the prospective client's business and equipment needs.

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Tia Chisiu

Support manager

Tia is an experienced support staff member with precise proofreading and editing skills.

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