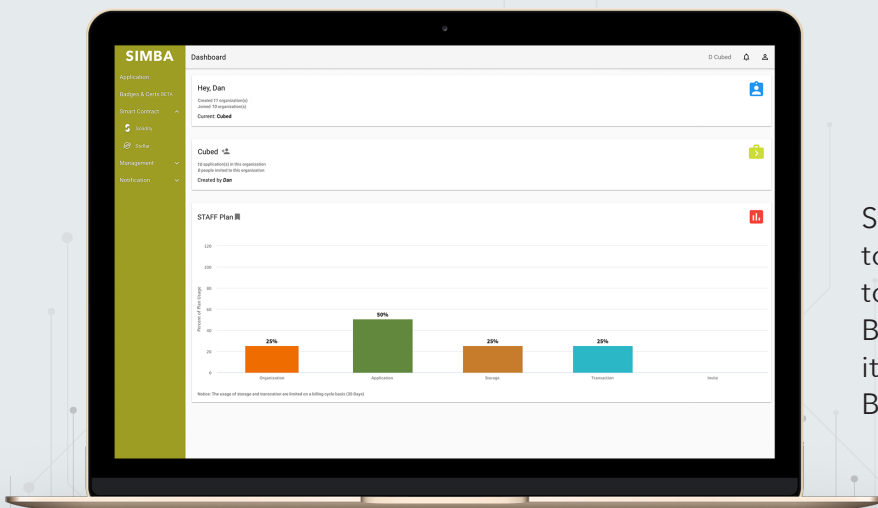


# SIMBA CHAIN CAPABILITIES



SIMBA Chain provides a simple way for you to develop Blockchain apps using our easy-to-use Platform or SIMBA can also be your Blockchain build partner. Above all, we make it easy to seamlessly take your business to the Blockchain through DIY or close interaction.

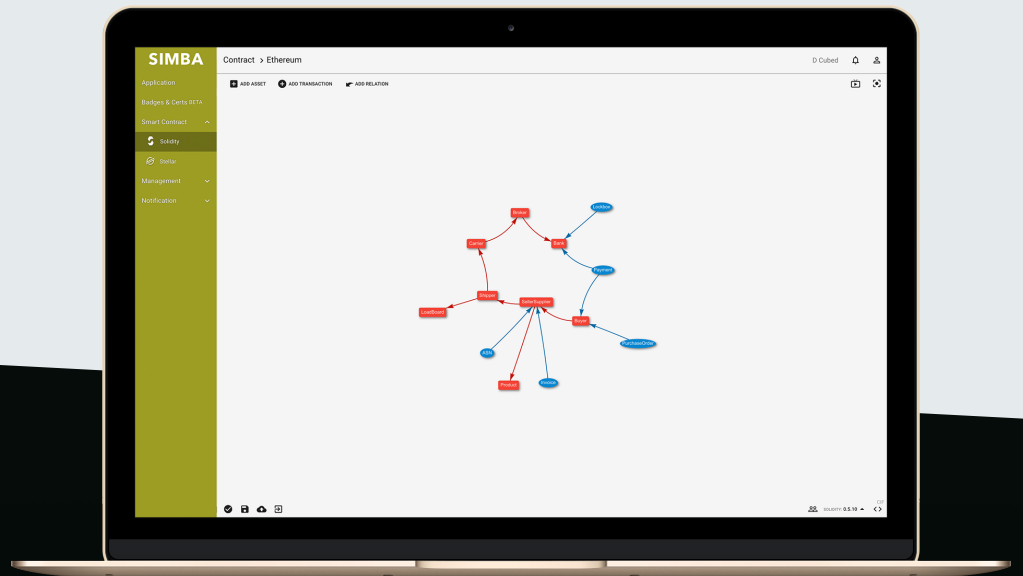
# WANT TO DEVELOP YOUR OWN BLOCKCHAIN?

## YOU NEED TO KNOW:

Web3      Ether Wallet    Javascript  
Geth      Meta Mask      Node.js  
Etherscan    IPFS      and more...



Zero knowledge to create a distributed applications, using known interfaces



**OUR PLATFORM PROVIDES A SIMPLE WAY TO DEVELOP BLOCKCHAIN APPS**  
SIMBA Chain makes it easy to build and deploy blockchain systems across multiple blockchains and data stores.

# GET STARTED

SIMBA Chain has two approaches to get your Blockchain up and running. We offer our DIY Platform to build your own or we can be your build partner.

## SIMBA'S PLATFORM

- Multiple Blockchain protocols
- Multiple data stores
- Simplified smart contracts and wallets
- Auto-generated custom REST APIs

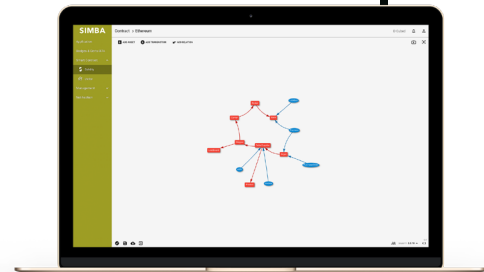
## BUILD PARTNER

- Blockchain Capabilities-as-a-Service
- Start-up-as-a-Service
- White-labeling your own solution
- Custom development

# BLOCKCHAIN SOLUTIONS

## SMART CONTRACT DESIGNER

Smart Contracts provide the interface and business logic to what is written on the Blockchain. They also control what rules need to be met for successful write operations to take place. SIMBA's Smart Contract Designer (SCD) allows anyone to quickly and easily create smart contracts. The interface allows you to build a graph of relationships using what SIMBA calls an "Asset and Transaction" model.



## ASSETS

Assets represent the things in your business that need tracked or the nouns of your business workflow.

*Examples: vehicle, shipping containers, files, or designs.*

## TRANSACTIONS

Transactions are any business processes or states that use or impact assets.

*Examples: timestamps, locations, opens, or downloads*

## AUTOMATED DATA INTEGRITY

Data protection is a critical challenge. 4.1 Billion data records were compromised in the first half of 2019 alone. Do you want assurance that your archived files have not been altered but don't have the time or resources to devote to protection?

Unlike traditional file protection solutions that are expensive, difficult, and time-consuming, SIMBA's Automated Data Integrity is a lightweight solution leveraging blockchain's native encryption and decentralization capabilities to protect files.

SIMBA is your lightweight blockchain solution to protecting your files.



# SMART CONTRACT AS A SERVICE (SCAAS)

SIMBA enables organizations to focus on core business and technical competencies and not worry about the Blockchain itself all while allying them to deploy to their own instance of Microsoft Azure.



1

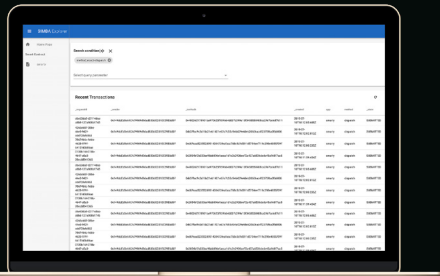
**CREATE YOUR SMART CONTRACT ON SIMBA CHAIN**

2

**EXPORT TO OUR AZURE SMART-CONTRACT-AS-A-SERVICE**

3

**SCAAS PROVIDES A REST API**



## SCAAS EXPLORER

For exploring the blockchain transactions, the SCaaS has an integrated Explorer, which allows you to browse, search and view the details of all of your Blockchain transactions for each Smart Contract using the SCaaS Explorer. The SCaaS Explorer makes exploring the blockchain a breeze.

## GAMING + BLOCKCHAIN



SIMBA now integrates with Unity 3D to combine gaming and blockchain. This integration could allow interconnected games, the ability of users to own their purchases, unlocks, and high scores, and much, much more.

It is now possible to immutably owning, storing, and managing all your personal gaming and digital assets is now possible.

## FEDERAL GOVERNMENT CONTRACT VEHICLE

Looking for a simple and streamlined way to source Blockchain and Blockchain related digital transformation and technology development projects with minimal administrative burden?

SIMBA Chain's SBIR Phase III BOA could be your answer.

### CONTRACT FEATURES INCLUDE:

Sole-Sourced      Non-Compete      Rapid Acquisition

Authorizing Agency: Naval Air Systems Command (NAVAIR)

Customer Agency (TPOC): US Navy

BOA (Basic Order Agreement): # N68335-19-G0045

Deliver Order: # N68335-20-F0012

Color of Money: RDT&E

## START-UP-AS-A-SERVICE

SIMBA is reducing the Blockchain barrier-to-entry for early-stage businesses. SIMBA does the heavy lifting for your Blockchain development, so you can get to your product/market fit faster and help you grow.

Additionally, we provide advisory, training, support and coaching so you can scale for success.

### SIMBA START-UP-AS-A-SERVICE OFFERS:

- SIMBA blockchain managed technology platform using Quorum
- White Label blockchain solution to bring to market
- SIMBA Platform Technical Support
- Single source of training
- Coaching, feedback and sounding board to help vet your strategic decisions



# EDUCATION PRACTICE

Blockchain adoption is growing rapidly. It is imperative universities diversify blockchain education to departments outside of computer science. Economics, finance, law, management, humanities, engineering, and other departments could all benefit from blockchain education.

Universities are incorporating SIMBA Chain's education tools into their online and classroom blockchain curriculum to offer their students hands-on experience in developing smart contracts, API's and decentralized applications (dapps) that deploy on multiple proven blockchain platforms.



## SIMBA CHAIN ADDS VALUE BY PROVIDING:

- Non-technical students the ability to build complex smart contracts and decentralized applications
- An easy-to-use drag and drop visual interface that automatically generates code and APIs
- Experience interacting with proven blockchain platforms including Ethereum, Quorum, Stellar, RSK and Hyperledger
- Hands-on, real-world blockchain learning experiences (online and classroom)
- Support from SIMBA Chains expert professional service and support team
- Access to our blockchain education lessons portal

## POWER APPS

Build robust smart contracts and blockchain apps using Microsoft's Common Data Service.

Users can now rapidly create custom connectors to instantly connect their apps directly into a blockchain with SIMBA's Smart-Contract-as-a-Service.

Using the familiar Microsoft Common Data Service, Power Apps builders and users can now build robust smart contracts and blockchain based applications with a minimal learning curve.

Of course, you can do all this with the new point and click integration making it easy for everyone to quickly build and share low-code apps with Microsoft Power Apps.

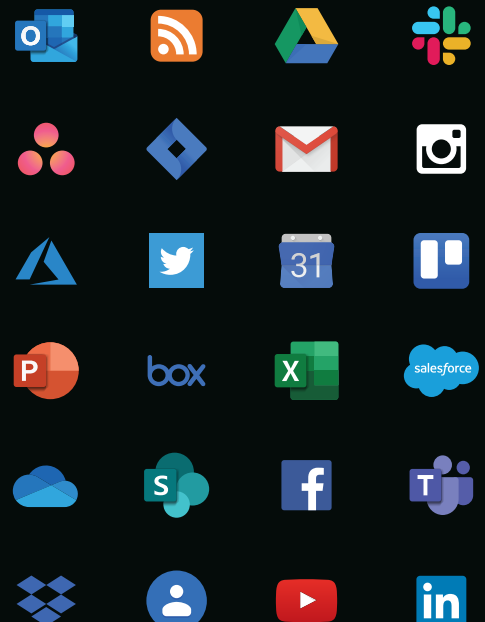
### WITH SIMBA + POWER APPS YOU CAN:

- Post data to a blockchain
- Read data from the blockchain
- Setup events and notifications
- Build automated smart contract application
- Leverage digital wallets

Because you shouldn't have to be a blockchain coder to be a blockchain builder.

## LINKING YOUR DATA FOR A COMPETITIVE ADVANTAGE

Connect your apps to hundreds of data sources using over 260 connectors and Common Data Service.



## MEDIA VERIFY

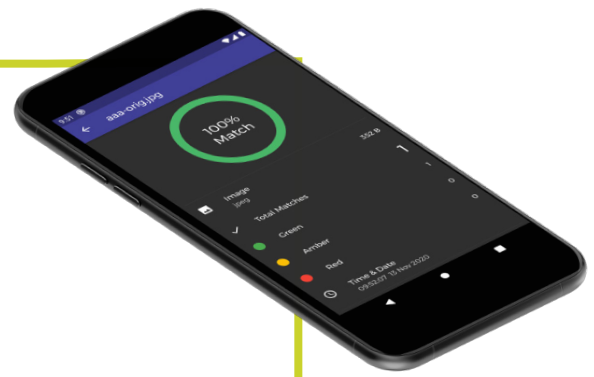
Are you worried about malicious actors and cyber criminals doctoring and falsifying your media assets?

Protect yourself with SIMBA Chain's Media Verify solution.

Media Verify is a blockchain-based capability that enables you to authenticate your official images, videos, press releases and any publicly released media asset.

- Verify suspected altered media against your official releases
- Utilize syntactic hashes to provide a scaled degree of the matching content on a 0 to 100 scale
- Assess threat level with insightful categorization that provides you with intelligence to make informed decisions
- Supports blockchain platforms including Ethereum, Quorum, Binance Smart Chain, Hyperledger, RSK, and Avalanche

Fight back against malicious and doctored media before they go viral and protect your brand with SIMBA Chain Media Verify!



### TEXT, IMAGES, AUDIO, AND VIDEO

SIMBA's Media Verify utilizes syntactic hashes to provide a scaled degree of the matching content rather than cryptographic hashes that simply give a Yes or No to the file match.

In the app, matched output is based on a 0-100 scale: 0 being no match, 100 an exact match.

## BADGES AND CERTIFICATES

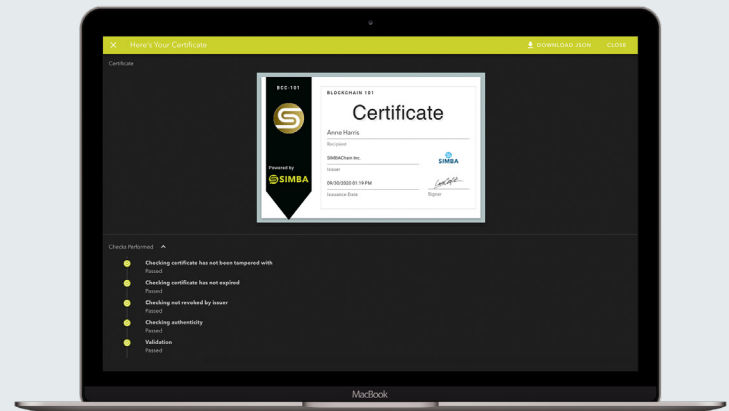
Verifiable credentials, badges, or certificates on a secure blockchain

SIMBA Chain brings blockchain verification and immutability to certifications, training, and other professional credentials with an easy-to-use application.

SIMBA's Badges and Certifications solution provides a verifiable record that cannot be altered. This allows everyone to build persistent achievements that certificate holders can be confident is not dependent on the badging solution provider or organization.

### WHY DO DIGITAL BADGING?

- Promote achievement and engagement for your students, employees or members
- Show your organization's or academic institution's investment in marketable skills and development
- Amplify the digital brand of your organization and your students, employees and members
- Ease of credential verification so employers or schools won't need to independently verify



### THREE EASY STEPS

#### 1. SIGN UP FOR THE PLATFORM

The beta Badges and Certifications application is available on our platform.

#### 2. READ THE GUIDE

Download and read the SIMBA Badges and Certifications User Guide to get started.

#### 3. START CREATING

Start building your own verifiable achievements and certificates.



# SIMBA'S PLATFORM

## SIMPLE WAY TO DEVELOP YOUR OWN BLOCKCHAIN APPS



### API

The SIMBA platform auto-generates Representational State Transfer (REST) APIs. This provides REST-based access to smart contract methods that transact on the blockchain ledger and enables access control groups for reading or writing.

Each API endpoint allows multiple data files to be attached and stored off-chain in a data store. Data comes into the system as multi-part attachments to the REST endpoints, which are then checked for access before being passed to a special data bundling mechanism. The bundling algorithm stores all files into the data store and generates hashcodes for aggregation into a manifest file, which is stored in the data store, with its hashcode bound on the blockchain to guarantee the integrity of the data input into the system.

### DATA STORES

Data Stores in SIMBA use the same adapter pattern as the blockchain (single generic REST interface), and can support the simple integration of different data stores.

SIMBA supports the Ceph, IPFS and flat-file-system-based data stores, Tahoe, and Microsoft Azure Blob Storage.



### BLOCKCHAIN

SIMBA provides a generic API to multiple blockchain systems so the system does not have a dependency on a single blockchain or distributed ledger technology.

SIMBA supports Ethereum, Quorum, Stellar, RSK, Hyperledger Fabric, Hyperledger Burrow, and Binance. More coming soon.



### WALLETS

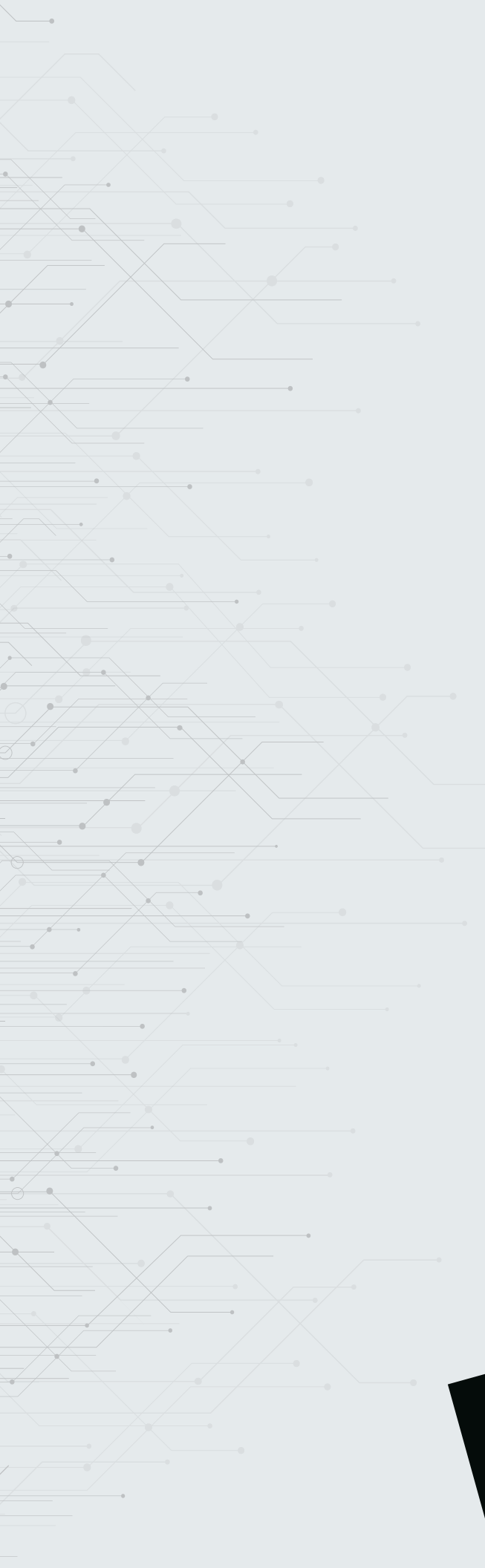
A private key of a wallet is required to sign a transaction. SIMBA doesn't store user's private keys. We provide a callback mechanism that allows the developer's app to sign transactions on behalf of their users.

When a transaction request is made on SIMBA using the app API, it sends it to the Blockchain adapter to generate the transaction payload. This payload is then returned to the sender for signing.

### SMART CONTRACTS

Smart Contracts provide the interface and business logic to what is written on the blockchain. They also control what rules need to be met for successful write operations to take place.

The Platform automatically generates smart contracts through our simple user interface. Users add their assets and transactions along with their methods and parameters, and **SIMBA Chain automatically generates the smart contract.**



🌐 [simbachain.com](http://simbachain.com)  
☎ 574-914-4446  
✉ [info@simbachain.com](mailto:info@simbachain.com)

 **SIMBA**