Ontology

What is Ontology?

Public blockchains with new architecture

&

A Distributed Trust Collaboration Platform

ONTology

Infrastructure

that integrates the fragmented industry is needed

to build a true and complete trust system

The **Bridge** that links to the real world

ONTology

Why Ontology?

Performance issues

Different business requirements

Digital Economy

Real Economy

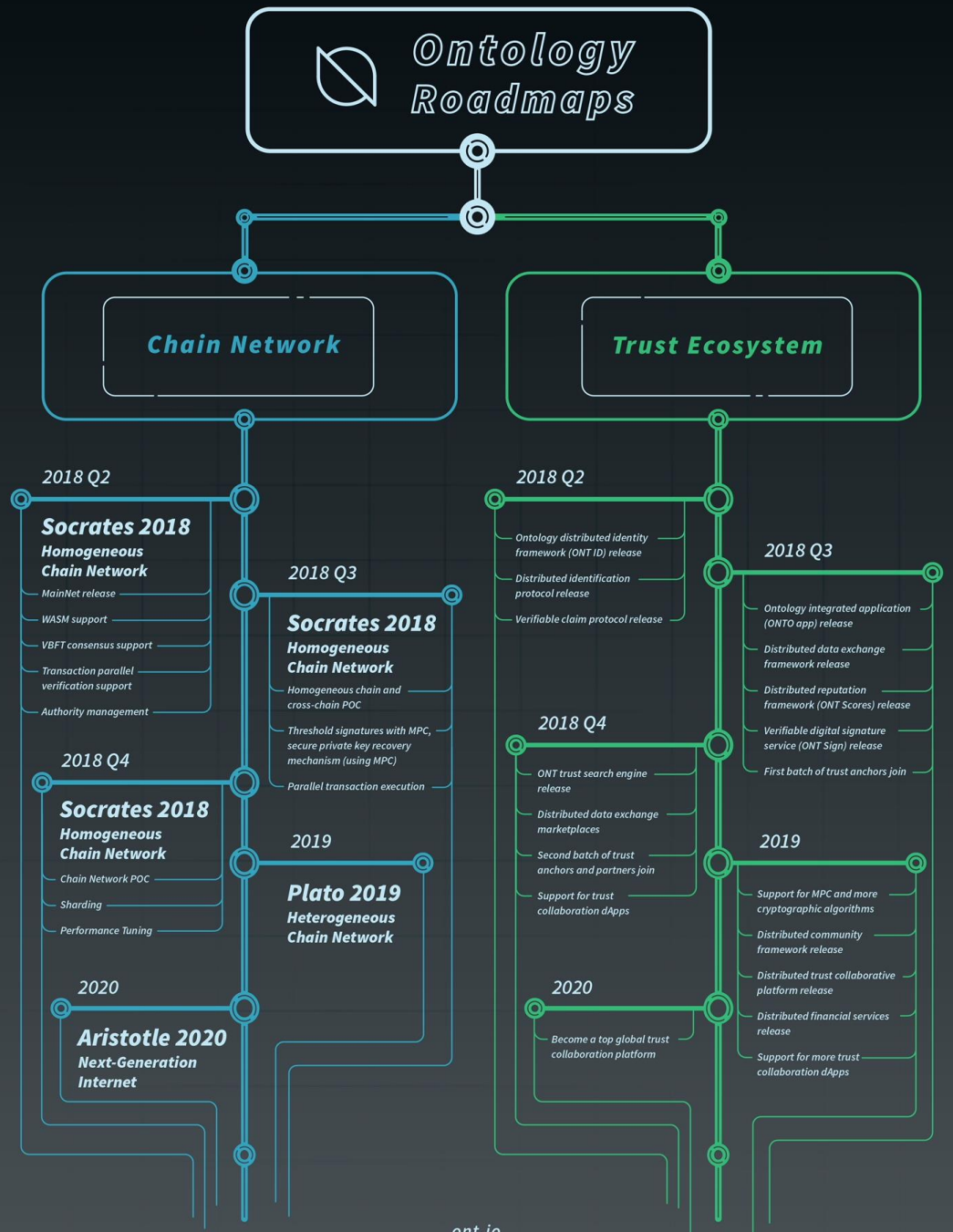
New Generation of Public Chain Infrastructure

- Public service chains & Application chains
- High-performance framework
- Protocol groups

A Distributed Trust Collaboration Platform

- A Bridge that links to the real economy
- A public trust platform
- A blockchain infrastructure

ONTology



Chain Network Vision

Power the next-generation internet

Trust Ecosystem Vision

Global trust collaboration platform

MainNet v1.0 launch

06/30/2018

Ontology 1.0

ONTology

Ontology 1.0

ONTology

Ontology 1.0

Ontology Infrastructure

- ONT Blockchains
- ONT Blockchain Frameworks
- ONT Interaction Protocols

Ontology Modules and Protocols

- ONT ID
- ONT Data
- ONT Scores

Ontology Common Applications

- ONTO
- ONT TSE
- ONT DDXF

ONTology

Chain network

Hyper-converged Chain Network

Vertical Scaling

Public Chains

+

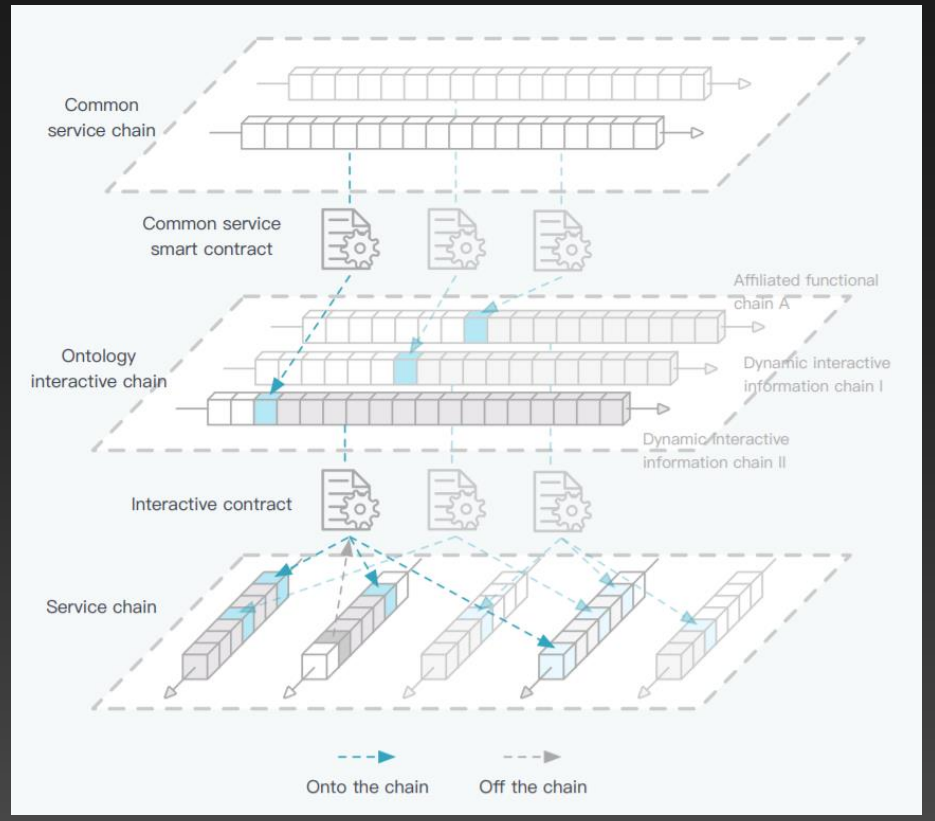
Unique Service Chains

Horizontal Scaling

Business Chain

+

Business Chain

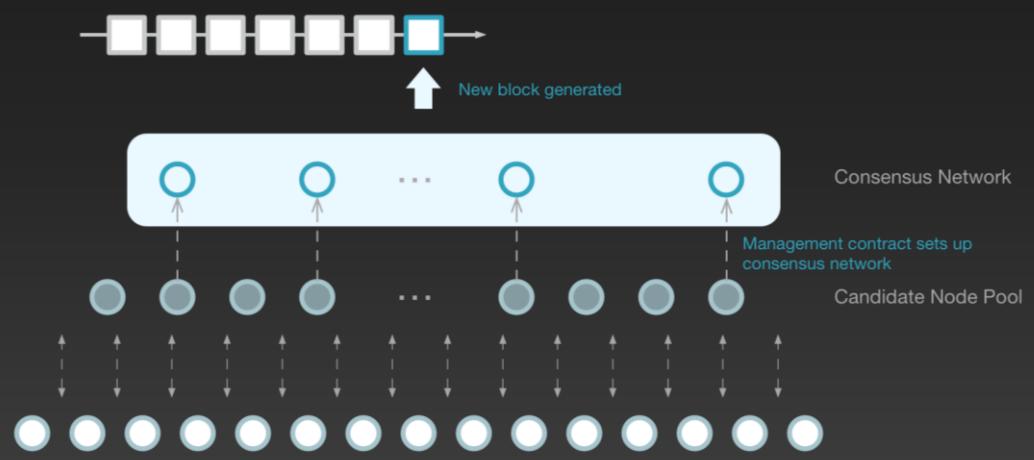


*Ontology tech whitepaper: https://ont.io/documents

ONTology

VBFT

VBFT - a high performance consensus algorithm.



- High scalability and performance
- Randomness and fairness
- Rapid status finality realization
- Pluggable modular design

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Smart-contracts

ONT + NEO VM

Building a new standard for smart contracts

- A version of NeoVM written completely in Go language
- Supports multiple languages, C#, Java, Python, and JS
- A new smart contract development IDE

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Ontology – Tech Highlights

Blockchain Technology

- Scalable lightweight universal smart contract
- Cross chain interactive protocol (processing)
- Multiple encryption algorithm support
- High transaction efficiency
- Multiple consensus algorithm support (VBFT/DBFT/RBFT/SBFT/PoW)
- Quick block generation

Trust Ecosystem

Modules and protocols:

- ONT ID
- ONT Scores
- ONT Data

&

Application Framework Features:

- DDXF
- Encryption modules
- Distributed Storage

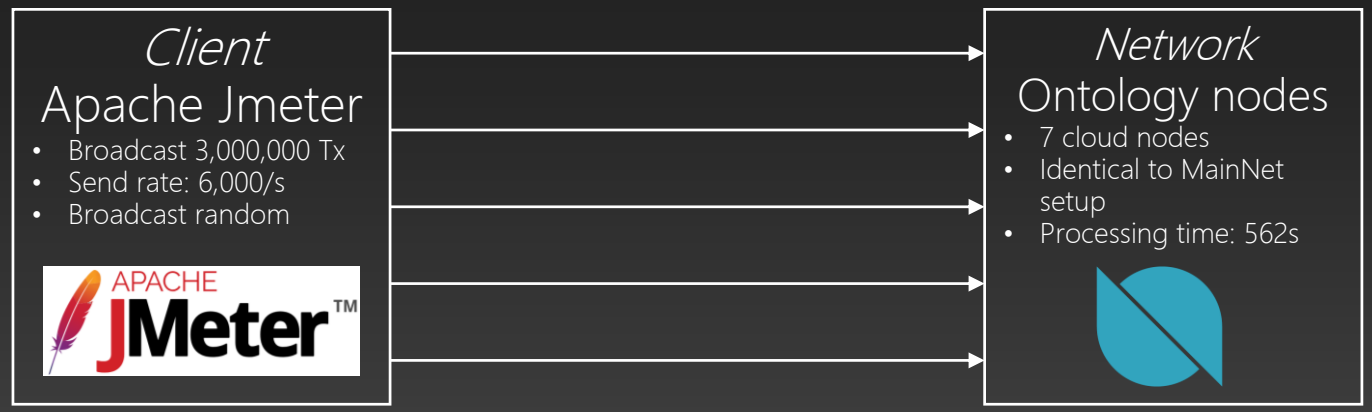
ONTology

Performance testing from Community

Conducted by

The Ontology Community

Environment



* No use of parallel processing or sharding

Result

5,341 TPS

- All testing are base on the open-source version
- The test doesn't include modules for
  - Parallel execution
  - Shading
  - Chain-network
- Based on a normal hardware environment

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Ontology 1.0

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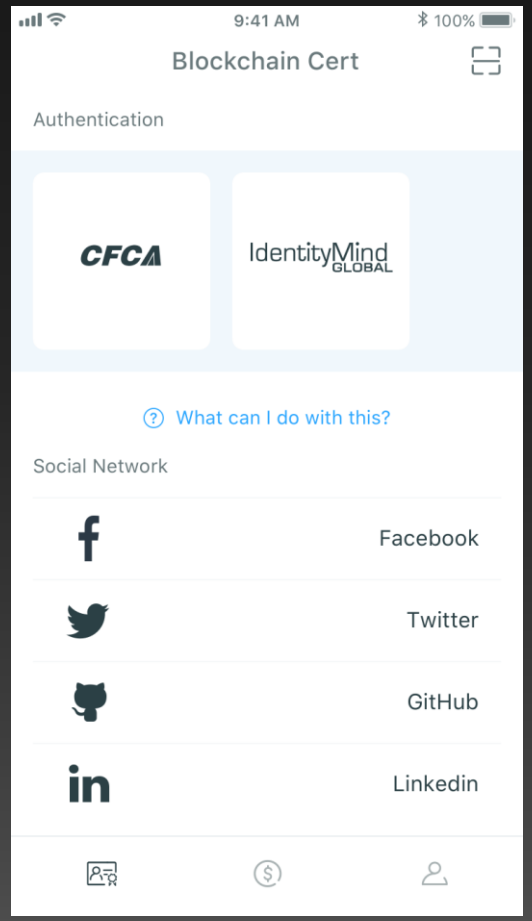
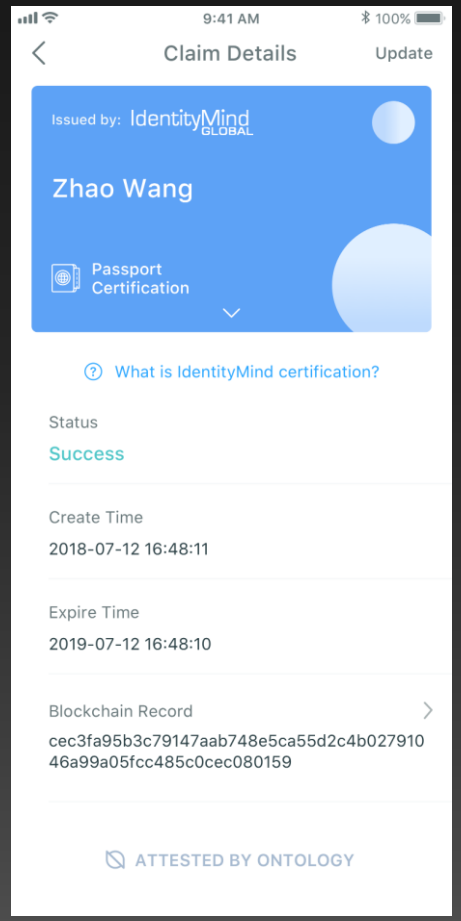
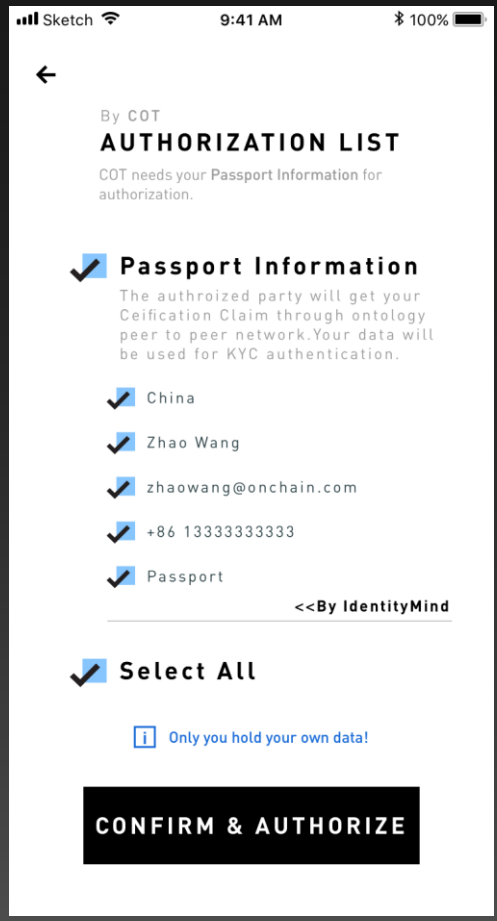
ONTO

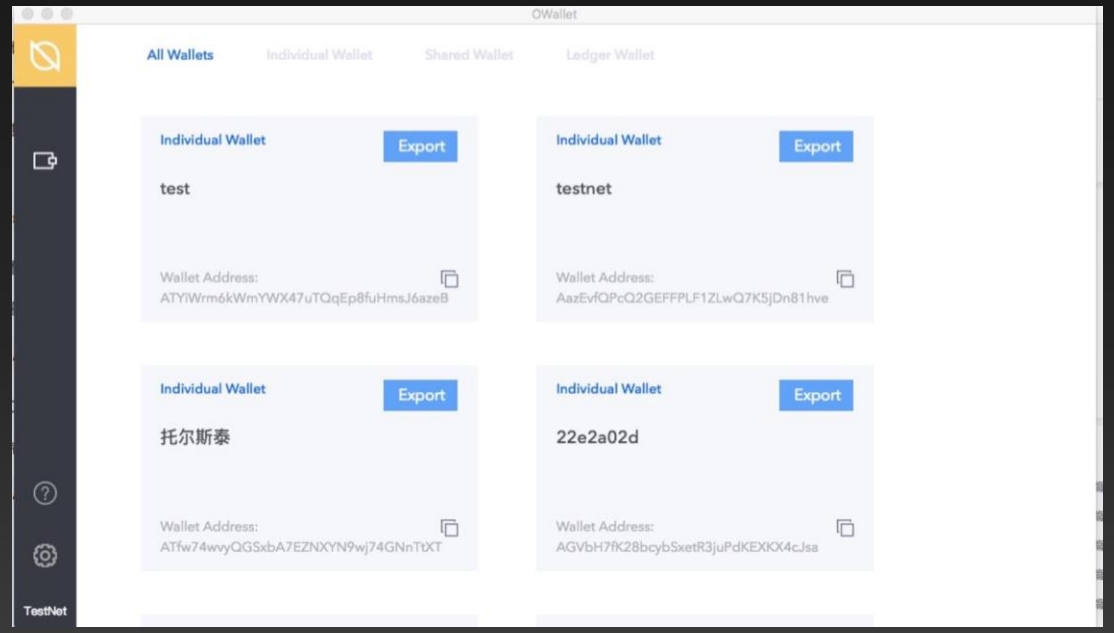


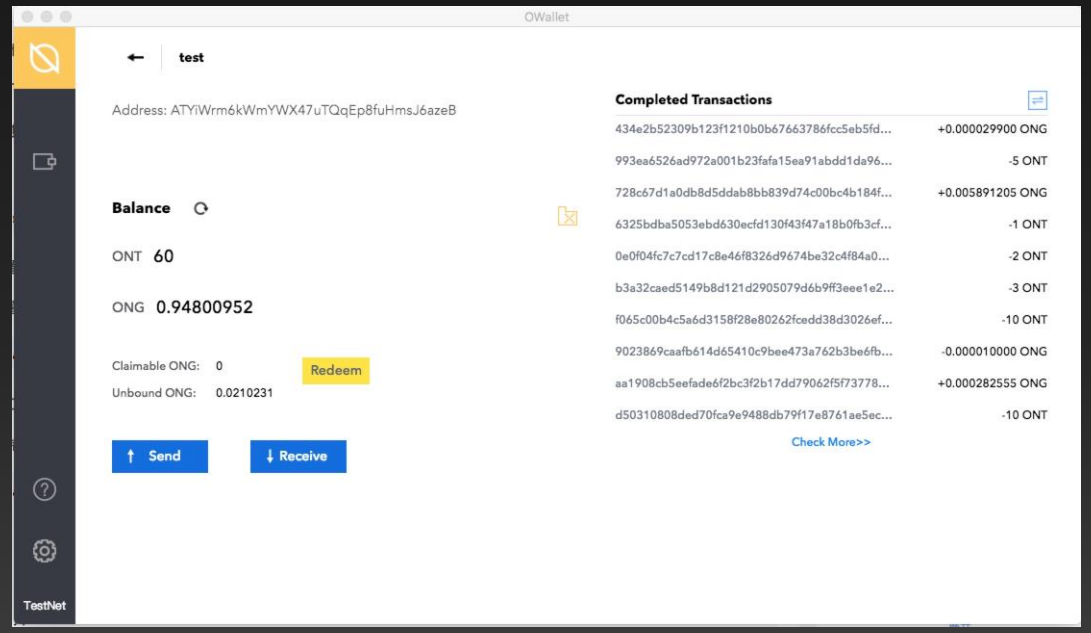




ONTology

OWallet





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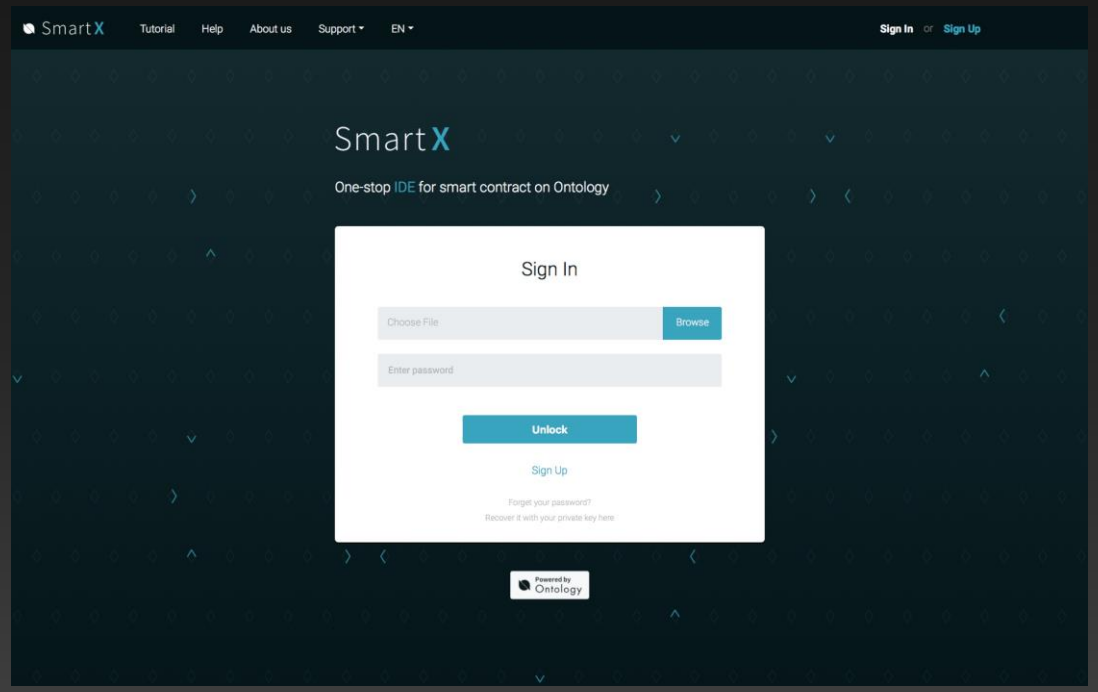
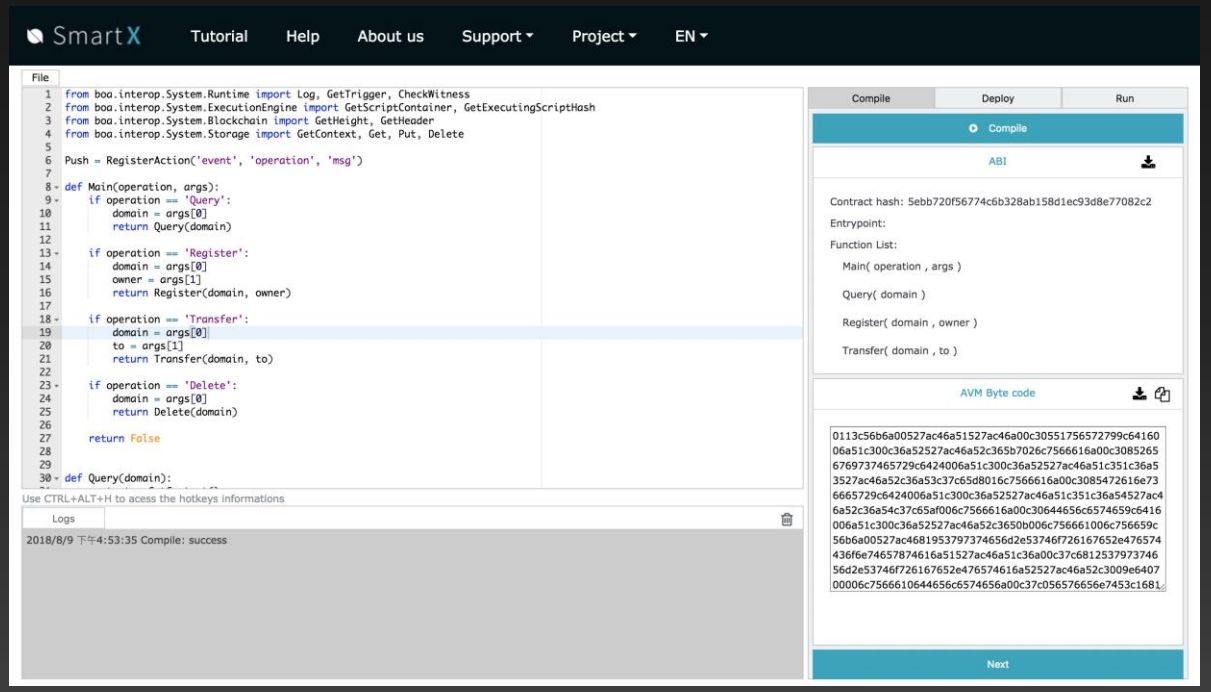
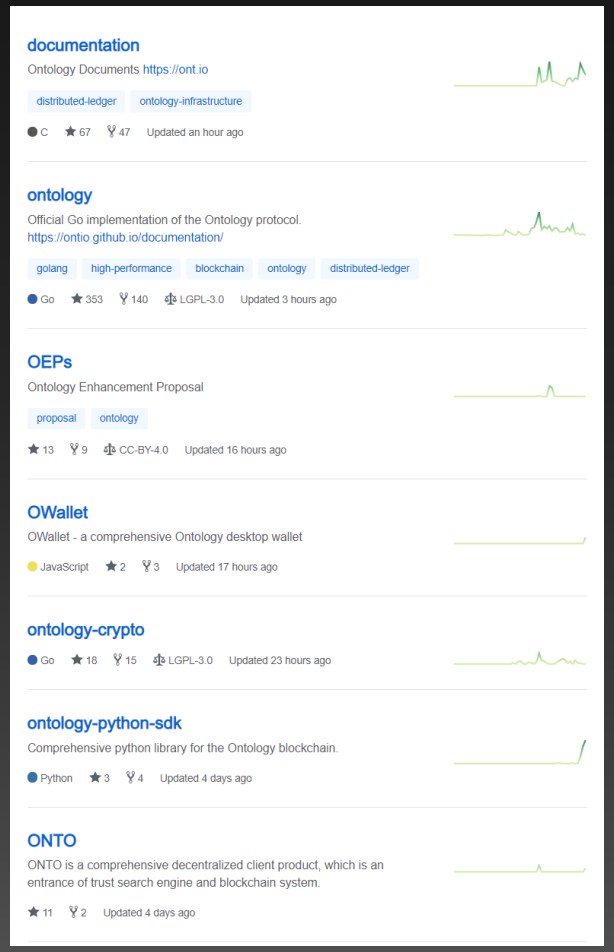
SmartX





ONTology

https://github.com/ontio



documentation
Ontology Documents https://ont.io
distributed-ledger ontology-infrastructure
C ★ 67 ⑂ 47 Updated an hour ago

ontology
Official Go implementation of the Ontology protocol.
https://ontio.github.io/documentation/
golang high-performance blockchain ontology distributed-ledger
Go ★ 353 ⑂ 140 LGPL-3.0 Updated 3 hours ago

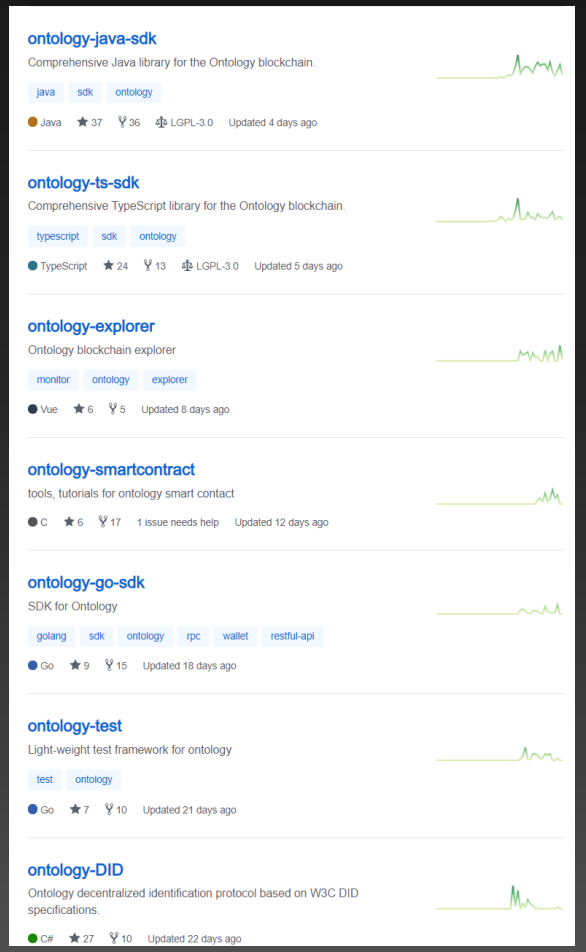
OEPs
Ontology Enhancement Proposal
proposal ontology
★ 13 ⑂ 9 CC-BY-4.0 Updated 16 hours ago

OWallet
OWallet - a comprehensive Ontology desktop wallet
JavaScript ★ 2 ⑂ 3 Updated 17 hours ago

ontology-crypto
Go ★ 18 ⑂ 15 LGPL-3.0 Updated 23 hours ago

ontology-python-sdk
Comprehensive python library for the Ontology blockchain.
Python ★ 3 ⑂ 4 Updated 4 days ago

ONTO
ONTO is a comprehensive decentralized client product, which is an entrance of trust search engine and blockchain system.
★ 11 ⑂ 2 Updated 4 days ago



ontology-java-sdk
Comprehensive Java library for the Ontology blockchain.
java sdk ontology
Java ★ 37 ⑂ 36 LGPL-3.0 Updated 4 days ago

ontology-ts-sdk
Comprehensive TypeScript library for the Ontology blockchain.
typescript sdk ontology
TypeScript ★ 24 ⑂ 13 LGPL-3.0 Updated 5 days ago

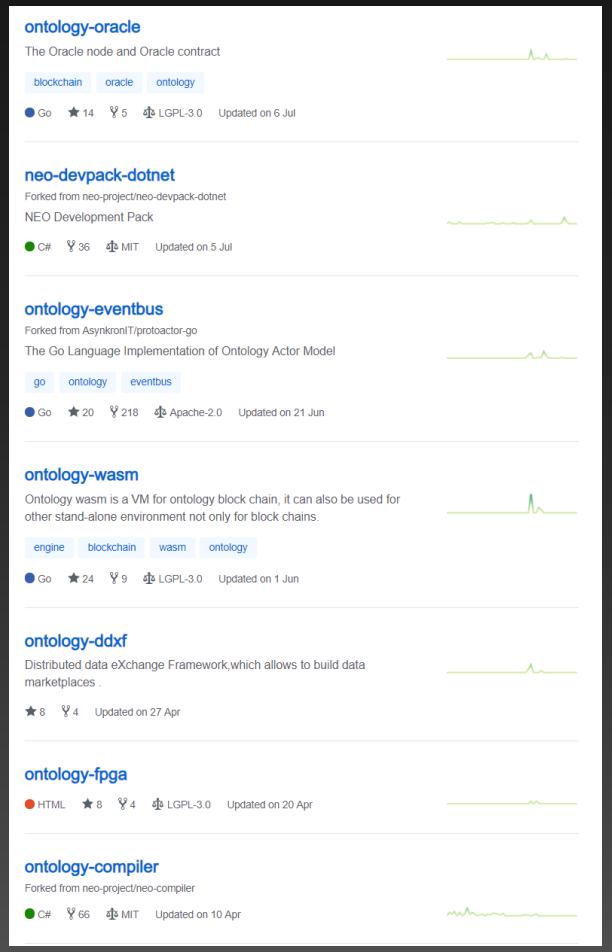
ontology-explorer
Ontology blockchain explorer
monitor ontology explorer
Vue ★ 6 ⑂ 5 Updated 8 days ago

ontology-smartcontract
tools, tutorials for ontology smart contact
C ★ 6 ⑂ 17 1 issue needs help Updated 12 days ago

ontology-go-sdk
SDK for Ontology
golang sdk ontology rpc wallet restful-api
Go ★ 9 ⑂ 15 Updated 18 days ago

ontology-test
Light-weight test framework for ontology
test ontology
Go ★ 7 ⑂ 10 Updated 21 days ago

ontology-DID
Ontology decentralized identification protocol based on W3C DID specifications.
C# ★ 27 ⑂ 10 Updated 22 days ago



ontology-oracle
The Oracle node and Oracle contract
blockchain oracle ontology
Go ★ 14 ⑂ 5 LGPL-3.0 Updated on 6 Jul

neo-devpack-dotnet
Forked from neo-project/neo-devpack-dotnet
NEO Development Pack
C# ⑂ 36 MIT Updated on 5 Jul

ontology-eventbus
Forked from AsynkronIT/protoactor-go
The Go Language Implementation of Ontology Actor Model
go ontology eventbus
Go ★ 20 ⑂ 218 Apache-2.0 Updated on 21 Jun

ontology-wasm
Ontology wasm is a VM for ontology block chain, it can also be used for other stand-alone environment not only for block chains.
engine blockchain wasm ontology
Go ★ 24 ⑂ 9 LGPL-3.0 Updated on 1 Jun

ontology-ddxf
Distributed data eXchange Framework,which allows to build data marketplaces .
★ 8 ⑂ 4 Updated on 27 Apr

ontology-fpga
HTML ★ 8 ⑂ 4 LGPL-3.0 Updated on 20 Apr

ontology-compiler
Forked from neo-project/neo-compiler
C# ⑂ 66 MIT Updated on 10 Apr

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Ontology 1.0

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Technical community

OEP (Ontology Enhancement Proposal)

Build Technical Group

100,000,000 ONT

Only for the Technical Community!

ONTology

Real-world connection

ONTology

Ontology Partners

Auto & IoT

CarBlock

COT

Industry

BDN Business Data Network

Fintech

NAGA

Identity

points

Media & Gaming

DAD

Health Care

ALLIVE

Entertainment

COCOS

contentos

SPOKKZ

Security

白帽汇 BAIMAOHUI.NET

慢雾科技 slow mist

nccgroup

CERTIK

Public Chain

NEO smart economy

ONTology

Ontology Olympus Accelerator (OOA)

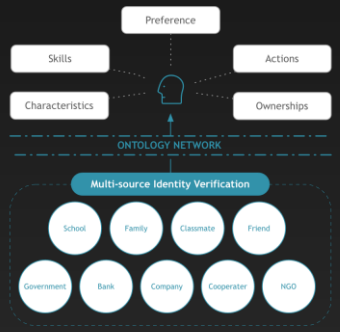
ONTology

What can you do with Ontology?

Not just issuing tokens

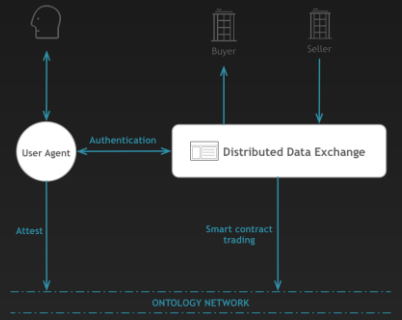
A Distributed Trust Collaboration Platform

Multi-Source Identity System for People

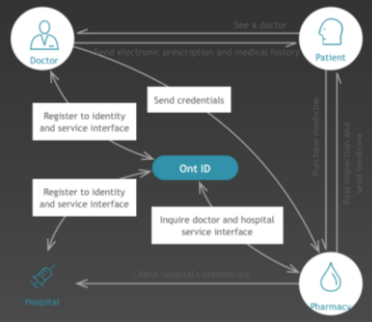


Multi-Source Identity System for Objects

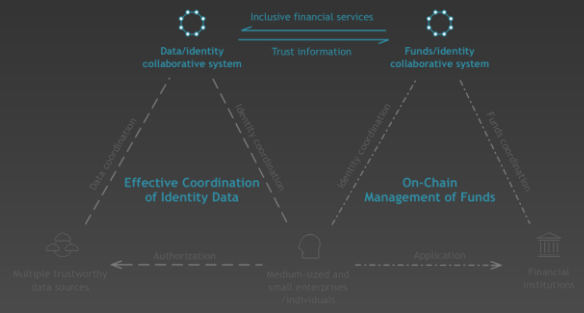
Distributed Data Exchange



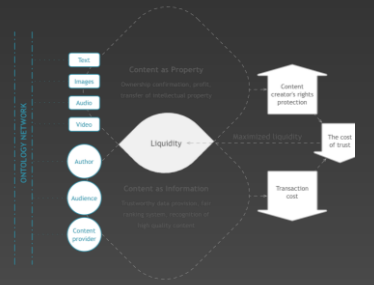
Distributed Collaborative Systems



Decentralized Inclusive Financial Services



Distributed Content Generation and Trade



ONTology

Scenarios

Wealth management

Trading

Financ

Derivatives trading

e

Supply chain finance

Collateral management

Sharing economy

Food supply chain tracking

Consume

r

Supply chain

Shipping and logistics management

Pharmaceutical tracking

Medicine tracking

Health Records

Health Care

Patient Transfer

Pharmacy management

Medical Records

Software development

Medicine

IoT

More...

Media

Asset titles

Government

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sallygong@ont.io