What is Ontology?

Public blockchains with new architecture
&
A Distributed Trust Collaboration Platform
Infrastructure that integrates the fragmented industry is needed to build a true and complete trust system.

The Bridge that links to the real world.
Why Ontology?

Performance issues
Different business requirements

New Generation of Public Chain Infrastructure
• Public service chains & Application chains
• High-performance framework
• Protocol groups

Digital Economy

A Distributed Trust Collaboration Platform
• A Bridge that links to the real economy
• A public trust platform
• A blockchain infrastructure

Real Economy
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 1.0

Technology
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
Hyper-converged Chain Network

**Vertical Scaling**
- Public Chains
- Unique Service Chains

**Horizontal Scaling**
- Business Chain
- Business Chain

*Ontology tech whitepaper: https://ont.io/documents*
VBFT - a high performance consensus algorithm.

- High scalability and performance
- Randomness and fairness
- Rapid status finality realization
- Pluggable modular design
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
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
Performance testing from Community

Conducted by
The Ontology Community

Environment

Client
Apache Jmeter
- Broadcast 3,000,000 Tx
- Send rate: 6,000/s
- Broadcast random

Network
Ontology nodes
- 7 cloud nodes
- Identical to MainNet setup
- Processing time: 562s

* 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
Ontology 1.0

Products
ONTO
SmartX

One-stop IDE for smart contract on Ontology

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SmartX

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SmartX

Code

Transaction hash: 0x0C3D79323372D21E0357C0B3A5D4D66525B472B0F

Function list:
- Init
- Register
- Deploy
- Sync
- Query
- Transfer

Call smart contract function

Deploy Smart Contract

SmartX
https://github.com/ontio
Technical community

OEP (Ontology Enhancement Proposal)

Build Technical Group

100,000,000 ONT

Only for the Technical Community!
Real-world connection

Partners programs scenarios
Ontology Olympus Accelerator (OOA)
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
Scenarios

Finance: Wealth management, Derivatives trading, Trading, Collateral management, Supply chain finance

Consume: Sharing economy, Food supply chain tracking, Supply chain, Pharmaceutical tracking, Shopping and logistics management

Health Care: Health Records, Pharmacy management, Medicine tracking, Medical Records, Software development, IoT

Government: Patient Transfer, Media, More...

More: Asset titles, Medicine
Ontology

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