

Performance Evaluation Perspectives for Business Use of Blockchain Ethereum Performance Evaluation Workshop

2021/10/29 18:00~



About ETHTerakoya

Purposes of ETHTerakoya



- Narrow down industry themes, dive into issues, and create proposals to Ethereum for the use of blockchain
- Standardize specifications by putting into the context of practical application from various perspectives including business, technology, and law
- Share knowledge widely through practical workshops based on the deepened contents of the working group

Working group activities by selected members x workshop (6 times in total; 1 per 2wks)

Open workshop (1 per 2-3 mths)

Technology

- Feasibility
- Current technical challenges
- About solution approach

Business / Law

- Industry domain challenges
- Obstacles of law / regulation
- Dive into "Why Blockchain"

■ Targeted participants:

Engineers and operators who are introducing /may be implementing blockchain business

■ Workshop goals:

You will be able to prioritize in your own views based on the judgement of pros & cons of blockchain implementation

Operation with the Support of Ethereum Foundation



- Transmit information domestically and internationally by collaborating with the Ethereum official team that has the world's largest blockchain development community
- Dive into industry themes, uncover Ethereum challenges, and provide feedback to the main unit for improvements needed to leverage blockchain



Previous Activity Achievements



■ Past activities include the use of blockchain in voting and workshops dedicated to the technical aspects of Ethereum 2.0.

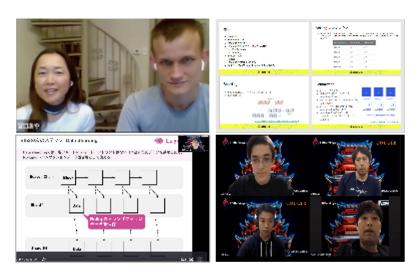
Working group ① ID x voting x blockchain

- June 2020 ~ ongoing
- Open workshop was held on 5 November, 2020



Working group 2 Ethereum 2.0

- November 2020 ~ ongoing
- Public workshop was held on the full update of ETH2.0 and scaling technology. Mr.Vitalik, the founder of Ethereum also participated.





[The theme]

Performance evaluation perspectives required for business use of blockchain Ethereum performance assessment workshop

Challenges and Objectives of this Working Group

■ Challenges

No standard metrics in common for measuring blockchain performance

Each company's own standard settings

Evaluation criteria disorder = No comparison



Currently, <u>each company sets its own standards</u> in measuring performance

There are examples of measuring transactions for empty data as well as measuring the moment of maximum value in order to show high performance, hence it's not possible to compare performance side by side

Objectives

Develop standards for performance measurements and create metrics

Develop standards for practical use

Enable user performance viewing & comparison





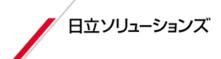
Discuss performance requirements that user companies and developers can "withstand practical use" and <u>set</u> <u>standards required for measurements</u>

List of Participating Companies



■ This WG's participating companies are as follows:

















The Road to this Workshop

ST	ΕP
1	

Investigate requirements
Sharing case studies &
issues

 Share scaling performance improvement examples, challenges, and requirements for specific products or use cases

STEP 2

Understand technical elements

• Introduce the technical factors that help improving scaling performance

STEP 3

Formulation of metrics
Set up measurement
methods
Measure

- Discuss about measurement standard based on Step 1
- Select tools and software used to formulate specifications for measurement standard
- Measure performance



Open Workshop: Presentation of results based on the above STEPs

Agenda



- 1. Overview of this initiative | Couger Inc. Atsushi Ishii
- 2. How to become involved as a business company | Nomura Asset Management Co., Ltd. Teruyoshi Imamura
- 3. Sharing the results of performance verification in the future of production systems
 - Accenture Japan Ltd. Masatsugu Yamada
- 4. Items to be described as performance measurement conditions and results | Couger Inc. Keita Shimizu
- 5. Benchmark tools in blockchains | Hitachi, Ltd. Nao Nishijima
- 6. Measuring Besu performance with Hyperledger Caliper (Trial & Error)
 - NTT TechnoCross Corporation Kazuhiro Kanematsu
- 7. Quorum performance verification with Hyperledger Caliper | NTT DATA Corporation Shunpei Shimizu
- 8. Blockchain infrastructure in the digital content domain | SingulaNet Ltd. Koji Machi
- Summary

Event Survey



We appreciate your corporation.

You can also answer the questionnaires from the URL on Peatix page.



Working group participating members wanted!

(engineers, business persons, lawyers, students, professors / researchers)

https://ethereum-terakoya.org/ (search: ETHTerakoya): please access to the inquiry page