Second General Meeting of the CBDC Forum

The CBDC Forum held its second general meeting on January 11, 2024. The Bank of Japan explained about the experimental system under the pilot program and provided an overview of efforts by different working groups (see attached slides).



Second General Meeting of the CBDC Forum

January 2024 Bank of Japan



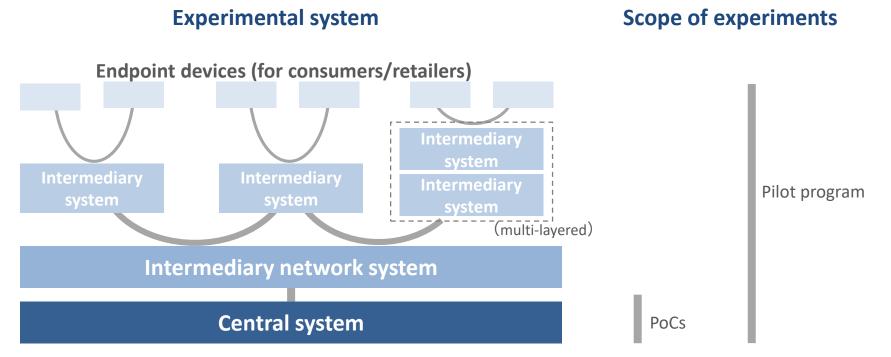


The Bank's Approach to CBDC

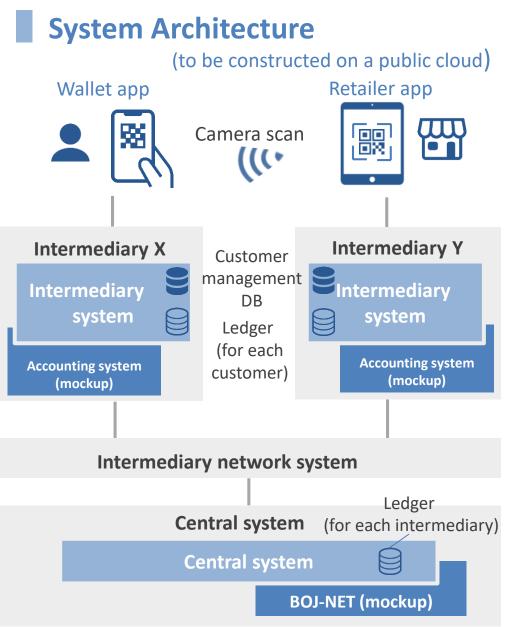
- Digitalization has advanced in various areas at home and abroad on the back of rapid development of information communication technology. There is a possibility of a surge in public demand for central bank digital currency (CBDC) going forward, considering the rapid development of technological innovation.
- While the Bank currently has no plan to issue a CBDC, from the viewpoint of ensuring the stability and efficiency of the overall payment and settlement systems, the Bank considers it important to prepare thoroughly to respond to changes in circumstances in an appropriate manner.
- The Bank will carry out experiments and deepen its exploration of institutional arrangements, coordinating with stakeholders at home and abroad.
- The future payment and settlement systems suitable for a digital society need to be discussed with various stakeholders. CBDC could have more of a function than merely as a payment instrument alongside cash. It could serve as the basis for innovation of private service providers to offer various new payment services.
- As long as there is public demand for cash, the Bank will stay committed to supplying it.

Development and Examination of Experimental System (1)

• In the pilot program, the Bank will develop a system for experiments, in which a central system, intermediary network systems, intermediary systems, and endpoint devices are configured in an integrated manner. It is through this program that the Bank will test the end-to-end process flow while exploring the measures and potential challenges for connecting the experimental system with external ones.



Development and Examination of Experimental System (2)



Main Considerations

(in light of possible social implementation)

End-to-end set-up



- From wallet app to central system

Privacy 2



Separation of systems handling personal data from systems processing settlement

Performance (7)

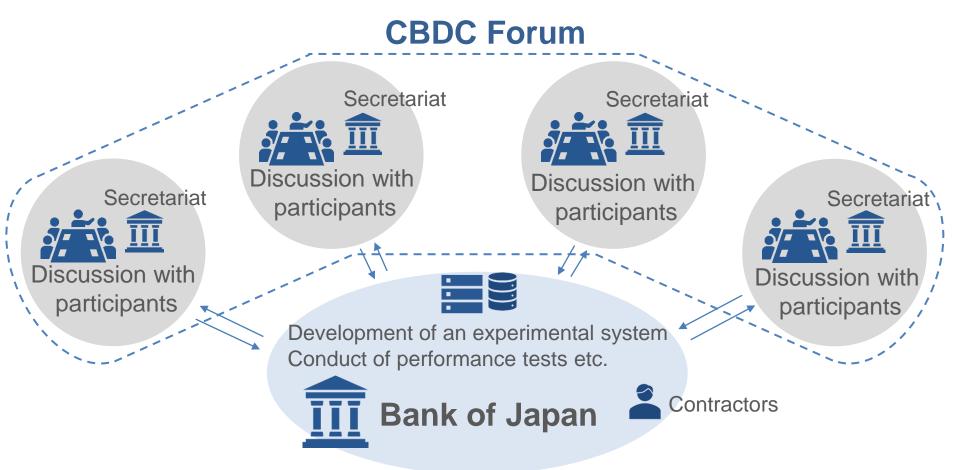
Identify technical issues and solutions for higher system performance building on PoC experiences by pursuing a pilot system that can handle high load processes

Scalability 1

- Identify technical issues and solutions for scalability by incorporating features that ease functional and performance scalability in the pilot system design phase

CBDC Forum

 The Bank established the CBDC Forum with private businesses related to retail payments. The findings of system development for experiments and discussions at the CBDC Forum are to be shared as necessary.

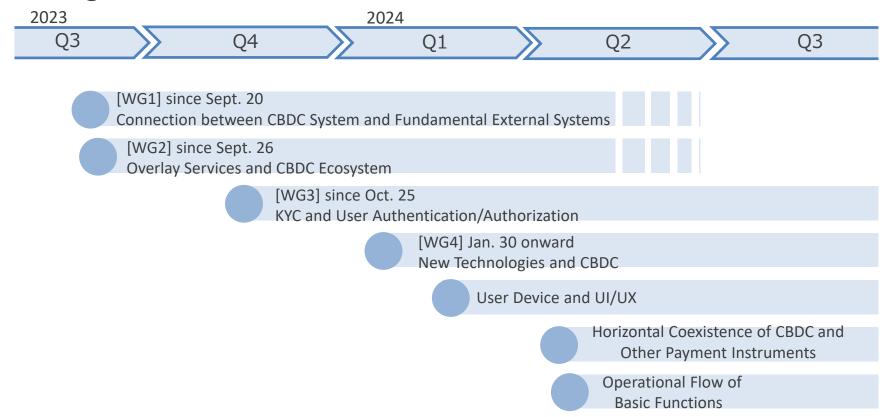


Member List of CBDC Forum (as of Jan. 11)

Aeon Bank, Limited	Dai Nippon Printing Co., Ltd.	Hitachi Solutions, Ltd.	Lawson, Inc.
Infcurion, Inc.	Daiwa Securities Co. Ltd.	Hitachi Channel Solutions,	Lawson Bank, Inc.
Canal Payment Service, Ltd.	Daiwa Institute of Research Ltd.	Corp.	au Payment Corporation
Coincheck, Inc.	Chiba Bank	FeliCa Networks, Inc.	BIPROGY Inc.
Cotra Ltd.	Tokio Marine & Nichido Fire	Fukuoka Financial Group, Inc.	BOOSTRY Co., Ltd.
JCB Co., Ltd.	Insurance Co., Ltd.	Money Forward, Inc.	Datachain, Inc.
THE SHIZUOKA BANK, LTD.	Toyota Financial Services	Mizuho Bank Ltd.	JPX Market Innovation &
Joyo Bank, Ltd.	Corporation	Mitsui Sumitomo Insurance	Research, Inc.
•	TradeWaltz Inc.	Co.,Ltd.	NRI SecureTechnologies, Ltd.
The Shinkin Banks Cooperative Center	Nudge Inc.	Sumitomo Mitsui Banking	NTT DATA Japan Corporation
The Shinkin Banks	IBM Japan, Ltd.	Corporation	NTT DATA Financial
Information System Center	Japan Securities Clearing	Sumitomo Mitsui Trust Bank,	Technology Corporation
Co.,Ltd.	Corporation	Limited	NTT DOCOMO, INC.
SECOM Co., Ltd.	NEC Corporation	MUFG Bank, Ltd.	PayPay Corporation
Seven Bank, Ltd.	Microsoft Japan Co., Ltd.	Merpay, Inc.	Ridgelinez Limited
Japanese Banks' Payment	Nomura Securities Co., Ltd.	JAPAN POST BANK Co., Ltd.	
Clearing Network	Nomura Research Institute, Ltd.	The Bank of Yokohama,Ltd.	SBI R3 Japan Co., Ltd
Sony Corporation	Panasonic Connect Co., Ltd.	Rakuten Payment, Inc.	Startale Labs Japan KK
SoftBank Corp.	EAST JAPAN RAILWAY COMPANY	Resona Holdings, Inc.	TIS Inc.
Soramitsu Co., Ltd.	LAST JAPAN NAILWAT COMPANT		TOPPAN Edge Inc.

Working Groups (WG)

- Taking into account linkages among discussion topics in consideration, thematic working groups are/will be formed within the Forum with a view to stimulating and facilitating discussions.
- The configuration and topics of working groups are subject to change in accordance with discussions in the Forum.



WG Members (1)

WG1	WG2
Aeon Bank, Limited	Aeon Bank, Limited
Cotra Ltd.	Infcurion, Inc.
THE SHIZUOKA BANK, LTD.	JCB Co., Ltd.
The Shinkin Banks Cooperative Center	SECOM Co., Ltd.
The Shinkin Banks Information System Center Co.,Ltd.	Sony Corporation
Seven Bank, Ltd.	SoftBank Corp.
Japanese Banks' Payment Clearing Network	Daiwa Securities Co. Ltd.
Chiba Bank	Tokio Marine & Nichido Fire Insurance Co., Ltd.
NEC Corporation	Toyota Financial Services Corporation
Fukuoka Financial Group, Inc.	TradeWaltz Inc.
Mizuho Bank Ltd.	Nudge Inc.
Sumitomo Mitsui Banking Corporation	NEC Corporation
MUFG Bank, Ltd.	Nomura Securities Co., Ltd.
JAPAN POST BANK Co., Ltd.	Nomura Research Institute, Ltd.
Resona Holdings, Inc.	Fukuoka Financial Group, Inc.
BIPROGY Inc.	Money Forward, Inc.
NTT DATA Financial Technology Corporation	Mizuho Bank Ltd.
	Mitsui Sumitomo Insurance Co.,Ltd.
	Sumitomo Mitsui Banking Corporation
	MUFG Bank, Ltd.
	Merpay, Inc.
	The Bank of Yokohama,Ltd.
	BIPROGY Inc.
	BOOSTRY Co., Ltd.
	NTT DATA Japan Corporation
	NTT DOCOMO, INC.
	PayPay Corporation
	Startale Labs Japan KK
	TIS Inc.

Note: As of Jan. 11.

WG Members (2)

WG3	WG4
Aeon Bank, Limited SECOM Co., Ltd. Sony Corporation Dai Nippon Printing Co., Ltd. Chiba Bank NEC Corporation Microsoft Japan Co., Ltd. Hitachi Channel Solutions, Corp. FeliCa Networks, Inc. Fukuoka Financial Group, Inc. Money Forward, Inc. Mizuho Bank Ltd. Sumitomo Mitsui Banking Corporation MUFG Bank, Ltd. JAPAN POST BANK Co., Ltd. Resona Holdings, Inc. NRI SecureTechnologies, Ltd. NTT DOCOMO, INC. PayPay Corporation	Coincheck, Inc. SECOM Co., Ltd. Soramitsu Co., Ltd. Daiwa Securities Co. Ltd. Japan Securities Clearing Corporation Nomura Securities Co., Ltd. Sumitomo Mitsui Banking Corporation Sumitomo Mitsui Trust Bank, Limited Merpay, Inc. BOOSTRY Co., Ltd. Datachain, Inc. JPX Market Innovation & Research, Inc. NTT DATA Japan Corporation SBI R3 Japan Co., Ltd Startale Labs Japan KK

Note: As of Jan. 11.

[WG1] Overview

- WG1 (Connection between CBDC System and Fundamental External Systems) covers (i) business requirements of payout and acceptance of CBDC, and delves into (ii) various connections between CBDC system and core banking systems.
- Through discussions, members aim to gain insight into technical or business aspects of various existing connection methods.

1st requirements of payout/acceptance (ii) Exploring various connections (iii) Deep dive

(i) Outline

Referring to the operational flow in existing core banking systems, sort out how CBDC payout or acceptance induces changes in the balance sheet of intermediaries

(ii) Outline

Based on business requirements of CBDC, explore various connections between CBDC system and core banking systems

(iii) Outline

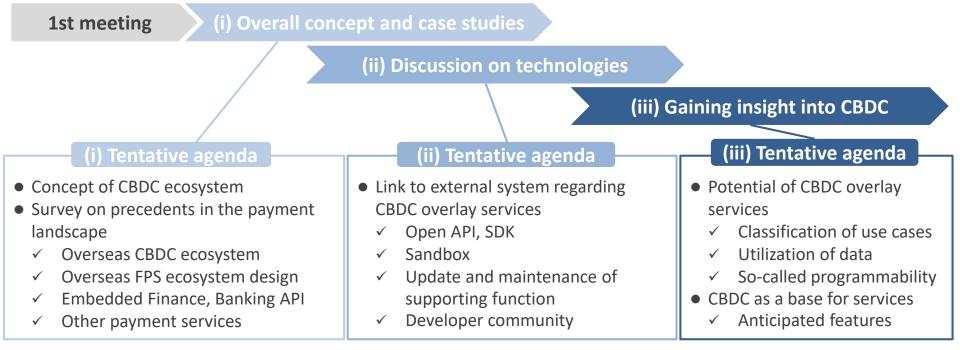
Gain insight on technical or business aspects of each connection method, with a view to future-proofing the system

[WG1] Meeting Calendar

Meeting	Date	Agenda
1st	Sept. 20, 2023	- Overview of the WG provided by the Bank
2nd	Oct. 13	 Presentation on business requirements of payout/acceptance Discussion on holding/transaction limits, system architecture of ledger management, and end user perspective
3rd	Nov. 2	 Presentation on various connections between CBDC system and core banking systems (1) Discussion on premise of the system, requirements for connecting to existing external services, examples of existing methods, and strategic direction and next steps
4th	Nov. 22	 Presentation by the Bank on WG targets and expectations Presentation on various connections between CBDC system and core banking systems (2) Discussion on examples of existing connection methods, issues regarding connection to CBDC system, and strategic direction and next steps
5th	Dec. 12	 Presentation on various connections between CBDC system and core banking systems (3)
6th	Jan. 17, 2024	 Presentation on various connections between CBDC system and core banking systems (4)
7th	Feb. 7	- Deep dive on connection methods (1)
8th	TBD	- Deep dive on connection methods (2)
9th onward	TBD	TBD 1

[WG2] Overview

- WG2 (Overlay Services and CBDC Ecosystem) discusses the concept of a CBDC ecosystem and surveys precedents in the payment landscape.
- Through the WG, members aim to understand the technological aspects of overlay services and gain insight into a CBDC ecosystem.



[WG2] Meeting Calendar

Meeting	Date	Agenda
1st	Sept. 26, 2023	- Overview of the WG provided by the Bank
2nd	Oct. 17	 - Presentation on overall concept and case studies (1) - "Overseas discussion on CBDC ecosystem (mainly in Europe)" - "Concept of CBDC ecosystem" - Group discussion
3rd	Nov. 7	 Presentation on overall concept and case studies (2) "Overseas FPS ecosystem" "Embedded finance and potential of CBDC" Presentation on technologies (1) "Toward a CBDC ecosystem" Discussion on trade-off between throughput and real-time settlement, trade-off between usability and security regarding authentication, cooperation between API provider and API user, classification of embedded finance, utilizing data in overlay services
4th	Dec. 8	- Presentation on technologies (2)- "API policy"
5th	Jan. 18, 2024	- Presentation on technologies (3)
6th	Feb. 27	TBD
7th onward	TBD	TBD

[WG3] Overview

- WG3 (KYC and User Authentication/Authorization) held its first meeting on October 25, 2023. The Bank introduced the WG's objectives, premises, and work plan.
- Through discussions, members aim to gain technical and procedural insight into KYC and authentication/authorization processes for a potential CBDC system.

1st meeting

(i) Sharing existing methods and processes

(ii) KYC and authN/authZ in a CBDC system

TBD

(i) Outline

Gain an understanding of KYC, AML/CFT, and authentication/authorization processes in existing payment services, explore latest technological developments in the respective fields, and deepen knowledge of necessary processes in a CBDC system

(ii) Outline

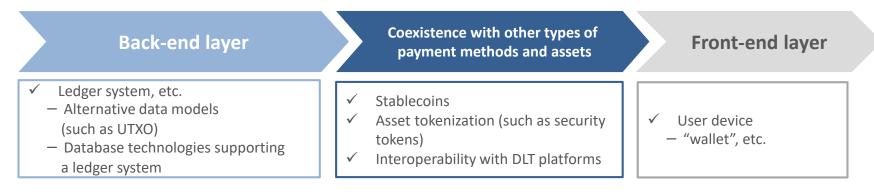
Obtain insight into the characteristics of KYC and authentication/authorization in a CBDC system, considering risks and usability in the existing processes

[WG3] Meeting Calendar

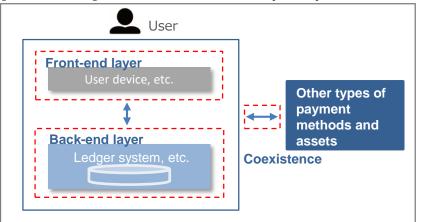
Meeting	Date	Agenda
1st	Oct. 25, 2023	- Overview of the WG provided by the Bank
2nd	Nov. 21	- Presentation on user action and operational process regarding KYC and
3rd	Dec. 11	 authentication in existing payment services Discussion on trade-off between security and usability of KYC check, issues in authentication and AML check to transaction monitoring
4th	Jan. 24, 2024	- Presentation on existing AML/CFT process and its latest development
5th	Feb. 15	- Presentation on existing KYC process and its latest development
6th	TBD	 Presentation on existing authentication process and its latest development
7th		 Presentation on existing use cases and technological aspects of authentication/authorization and their latest development
8th		- Presentation on insight into the characteristics of KYC and
9th		authentication/authorization in a CBDC system
10th onward		TBD

[WG4] Overview

- WG4 (New Technologies and CBDC) studies new technologies relating to a CBDC system and discusses their potential usage.
- The first meeting will be held on January 30. Through presentations given by members, members aim to gain insight into a CBDC ecosystem from new technologies.



[Other WGs] Outlook from current perception



[WG4] Outlook inspired by new technologies

