

Tokenisation of SFC-authorised investment products

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Investment Products Division (IP)



A. Introduction

What is tokenisation?



 In simple terms, tokenisation refers to the creation of blockchain-based tokens that represent or aim to represent ownership in certain assets / rights.



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- Assets are resources economically owned by an individual or an institution.
- Theoretically, tokens can represent any type of assets including financial assets (e.g. bonds, stocks, funds, other securities, etc) and non-financial assets (e.g. real estate, art).



Blockchain

- Blockchain is a programmable ledger built on distributed ledger technology (DLT).
- It operates under fundamentally different rules vs traditional ledger systems as it allows for the use of smart contracts that run when predetermined conditions are met and support functions such as data access, validation, and updates.



Tokens

- Tokens are digital representations of assets on the blockchain.
- These tokens can be transferred on the blockchain.
 Theoretically, they can be acquired or sold on a platform, similar to how Bitcoin or Ether are traded.

SFC's regulatory remit over tokenised products and assets



Tokenisation of investment products



The rest of the presentation focuses on tokenisation of **investment products**. Such tokenised products can be recorded digitally on the blockchain, offered directly to end-investors, distributed by intermediaries, or traded among the blockchain participants where allowed (i.e. secondary trading). While tokenised investment products may provide certain potential benefits, they may also give rise to investor protection and other risks.





B. Current adoption globally

Tokenisation – current adoption globally (1)



Hong Kong	 There are live cases of tokenised private funds managed by SFC-licensed fund managers, which are available to professional investors only. In Nov 2023, the SFC published guidance on tokenisation of SFC-authorised retail investment products and intermediaries engaging in tokenised securities-related activities.
US	 There are tokenised retail funds in the US, such as: Franklin OnChain U.S. Government Money Fund (incepted in Jun 2021); and 13 sub-funds of the WisdomTree Digital Trust (with the first sub-fund incepted in Dec 2022). The tokenised share classes are typically available to investors directly on the managers' app/portal (i.e. not through distributors) with no secondary trading.
Singapore	 The Project Guardian is a collaborative initiative launched by MAS in May 2022 to test the applications in asset tokenisation and DeFi. There are various industry pilots under asset & wealth management, fixed income and foreign exchange, focusing on institutional investors.

Tokenisation – current adoption globally (2)



In November 2023, the industry-led Technology Working Group of Treasury's Asset Management Taskforce (Group) released an interim report outlining a strategic blueprint for the implementation of fund tokenisation in the UK. **Staged approach:** To implement fund tokenisation, the Group will start from a baseline model (stage one), focusing on a register of primary market investors or platforms, for which a fund manager is responsible. □ A "stage one" tokenised fund is a mainstream investment fund which utilises blockchain for sales and redemptions, with the following UK characteristics: (1) authorised fund in the UK; (2) holds traditional assets; (3) off-chain, usual cycle settlement; (4) private and permissioned blockchain; and (5) valuation on a daily basis. The FCA has reviewed existing financial regulatory rules and identified no significant regulatory hurdles to the stage one baseline model. **Futures stages**: The Group will continue to explore the next possible stages such as the use of a public chain, secondary trading, direct access to end investors, digital money for settlement, funds to hold tokenised underlying assets, etc.



C. SFC guidance

SFC guidance – overview (1)



 In November 2023, the SFC published guidance on tokenisation of SFC-authorised investment products (<u>Link</u>) and intermediaries engaging in tokenised securities-related activities (<u>Link</u>).

We consider tokenised products to be fundamentally traditional products with a tokenisation wrapper. By adopting a see-through approach:



SFC guidance – overview (2)



High-level principle: the use of technology should not make investors of tokenised products worse off than investing in the underlying traditional products.



Place due diligence obligation on intermediaries (including fund managers) on, amongst others:

- legal position on settlement finality and enforceability of extrinsic rights;
- technology aspects for issuance and maintenance (e.g. technology service provider, private key management, cybersecurity risk and controls); and
- robust business continuity plan implemented by the issuer.
- □ For fund managers, being the issuer of the product, remain responsible for operation of the tokenisation arrangement irrespective of outsourcing to technology service provider.

Illustrative example – tokenisation arrangement for SFC-authorised funds

This diagram is simplified for illustrative purpose only. The actual arrangement could vary case-by-case.



Additional safeguards for primary dealing of tokenised SFC-authorised products (1)



(1) Tokenisation arrangement

remain and be ultimately responsible for the management and operational soundness of the tokenisation arrangement adopted and record keeping of ownership, regardless of any outsourcing arrangement.

ensure that proper records of token holders' ownership interests in the product are maintained and the tokenisation arrangement is operationally compatible with service providers involved.

Note: not expected to issue tokenised products in bearer form.

have appropriate measures in place to manage and mitigate cybersecurity risks, data privacy, system outages and recovery, and maintain a comprehensive and robust business continuity plan. e.g. incorporate a burning and re-issuance mechanism to mitigating hacking risk and theft.

not use public-permissionless blockchain networks without additional and proper controls.

e.g. to impose additional control by using a permissioned token.

Product providers should:

Additional safeguards for primary dealing of tokenised SFC-authorised products (2)



(2) Disclosure

Offering documents should set out clearly :



Additional safeguards for primary dealing of tokenised SFC-authorised products (3)



(3) Staff competence

(4) Intermediaries



Regulated intermediaries as distributors*

- E.g. SFC-licensed corporations or registered institution
- Comply with applicable requirements under existing rules, codes & guidelines (e.g. client onboarding requirements, suitability assessment), and the Circular on intermediaries engaging in tokenised securities-related activities
- **Custodial arrangement:** Take into account the features and risks of the tokenized products to select the most appropriate custodial arrangement to manage ownership and technology risks

Prior consultation and approval



- For new investment products that have tokenisation features and plan to seek the SFC's authorisation, prior consultation with the SFC is required.
- Prior consultation is also required for tokenisation of existing SFC-authorised investment products and such change may require prior approval.
 - Prior approval should be obtained before adding the disclosure of new tokenised unit/share class of an SFC-authorised fund in the Hong Kong offering documents and offering it to the public in Hong Kong.
 - No prior approval is required for adding another tokenised unit/share class to the same fund if the tokenisation arrangement is substantially the same as the existing one.

Thank you.

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