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ISO 24165
DIGITAL TOKEN IDENTIFIER

Implementation Plans

19 February 2021

WHAT IS ISO 24165 DTI?

ISO TC68 SC8 WG3 has produced a draft standard for **identifying digital tokens**, with the publication of the standard expected by end 2021.

The purpose of the DTI is to address the demands of exchanges, custodians, financial institutions, and regulatory authorities for **a registry and identifier assignment process** for digital tokens.

The key principles behind the DTI include:

- The identifier will be **random, unique and fixed-length** (8 characters plus checksum)
- Registration eligibility is based on **objective, verifiable information** provided by the applicant
- The assignment of the identifier offers no warranty on the features, purpose, compliance to any regulation, or value of the digital token
- The **identifier is assigned to the token**, not registered to the applicant

The scope of DTI issuance is **all fungible digital assets which use distributed ledger technology** for their issuance, storage, exchange, record of ownership, or transaction validation and are not a currency.

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IDENTIFICATION METHOD

KEY CONSIDERATIONS

1. Identification of the digital token is based on verifiable and unique data about the digital token.

2. Uniqueness criterion is based on the digital token's origins on the distributed ledger data structure.

3. Forks are catered for by including specific fork information within the uniqueness criterion, to distinguish between the original digital token and the newly created token(s).

EXAMPLE: BITCOIN

Normative	**Genesis Block Hash**	000000000019d6689c085ae165831e934ff763ae46a2a6c172b3f1b60a8ce26f
Normative	**Genesis Block Hash Algorithm**	SHA-256
Normative	**Genesis Block UTC Timestamp**	2009-01-03T18:15:05
Informative	**DT Long Name**	Bitcoin
Informative	**DT Short Names**	BTC
Informative	**DT Reference Implementation URL**	https://github.com/bitcoin/bitcoin
Informative	**DT Unit Multiplier**	100000000

Legend:

M **Mandatory**

O **Optional**

C **Conditional**

DT = Digital Token
DLT = Distributed Ledger Type

EXAMPLE: BITCOIN CASH

Normative	**Genesis Block Hash**	000000000019d6689c085ae165831e934ff763ae46a2a6c172b3f1b60a8ce26f
Normative	**Genesis Block Hash Algorithm**	SHA-256
Normative	**Genesis Block UTC Timestamp**	2009-01-03T18:15:05
Informative	**DT Long Name**	Bitcoin Cash
Informative	**DT Short Names**	BCH
Informative	**DT Reference Implementation URL**	https://github.com/Bitcoin-ABC/bitcoin-abc
Informative	**DT Unit Multiplier**	100000000

Fork: Normative	**Reference to base record the fork record modifies**	DTI of Bitcoin
Fork: Normative	**Fork Block Height**	478559
Fork: Normative	**Fork Block UTC Timestamp**	2017-08-01 18:12:41
Fork: Normative	**Fork Block Hash**	0000000000000000000651ef99cb9fcbe0dadde1d424bd9f15ff20136191a5eec
Fork: Normative	**Fork Block Hash Algorithm**	SHA-256

Legend:

M **Mandatory**

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DATA ELEMENTS

Data Elements	DTI Type	1=Native token	2=DLT without native token	1=Native token	2=DLT without native token	0=Auxiliary Token	3=functionally fungible group of digital tokens
	DLT Type	1=Blockchain	1=Blockchain	0=Other	0=Other	N/A	N/A
Normative	**Auxiliary DT Mechanism**	N/A	N/A	N/A	N/A	M	N/A
Normative	**Auxiliary DT Distribution Ledger**	N/A	N/A	N/A	N/A	M	N/A
Normative	**Auxiliary DT Technical Reference**	N/A	N/A	N/A	N/A	M	N/A
Normative	**Genesis Block Hash**	M	M	N/A	N/A	N/A	N/A
Normative	**Genesis Block Hash Algorithm**	M	M	N/A	N/A	N/A	N/A
Normative	**Genesis Block UTC Timestamp**	C	C	N/A	N/A	N/A	N/A
Normative	**Functionally Fungible DTIs List**	N/A	N/A	N/A	N/A	N/A	M
Informative	**DT Long Name**	M	M	M	M	M	M
Informative	**Original Language DT Long Name**	O	O	O	O	O	O
Informative	**DT Short Names**	O	N/A	O	N/A	O	O
Informative	**Original Language DT Short Names**	O	N/A	O	N/A	O	O
Informative	**Underlying Asset External Identifiers Type**	C	N/A	N/A	C	C	C
Informative	**Underlying Asset External Identifiers Value**	O	N/A	O	N/A	O	O
Informative	**DT External Identifiers Type**	C	N/A	N/A	C	C	C
Informative	**DT External Identifiers Value**	O	N/A	O	N/A	O	O
Informative	**DT Reference Implementation URL**	O	O	O	O	N/A	N/A
Informative	**DT Unit Multiplier**	M	N/A	M	N/A	M	N/A
Informative	**Public Distribution Ledger Indicator**	M	M	M	M	N/A	N/A
Fork: Normative	**A reference to the base record the fork record modifies**	M	M	N/A	N/A		
Fork: Normative	**Fork Block Height**	M	M	N/A	N/A		
Fork: Normative	**Fork Block UTC Timestamp**	C	C	N/A	N/A		
Fork: Normative	**Fork Block Hash**	M	M	N/A	N/A		
Fork: Normative	**Fork Block Hash Algorithm**	M	M	N/A	N/A		
Fork: Normative	**Consensus mechanism change response**	M	M	N/A	N/A		
Fork: Normative	**Digital token creation response**	M	N/A	N/A	N/A		

Legend:

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O **Optional**

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DT = Digital Token
DLT = Distributed Ledger Type

IMPLEMENTATION TIMELINES

- The standard is currently in draft, with publication expected **Q3 2021**.
- DTI issuance is anticipated to **start simultaneously with the publication of the standard**.
- Possibility of **soft launch mid 2021** if needed to meet any urgent industry or regulatory needs.
- **Product Advisory Committee** being formed to provide industry stakeholders a formal say in the governance of the service

STAKEHOLDER ENGAGEMENT TIMELINES

Q2 2021

- Call for participation in Product Advisory Committee

Q3 2021

- Product Advisory Committee operational
- Potential soft service launch

Q4 2021

- Taskforces to explore synergies with other identifiers, including ISIN and ITIN
- Formal service launch

2022

- Technology Advisory Committee operational

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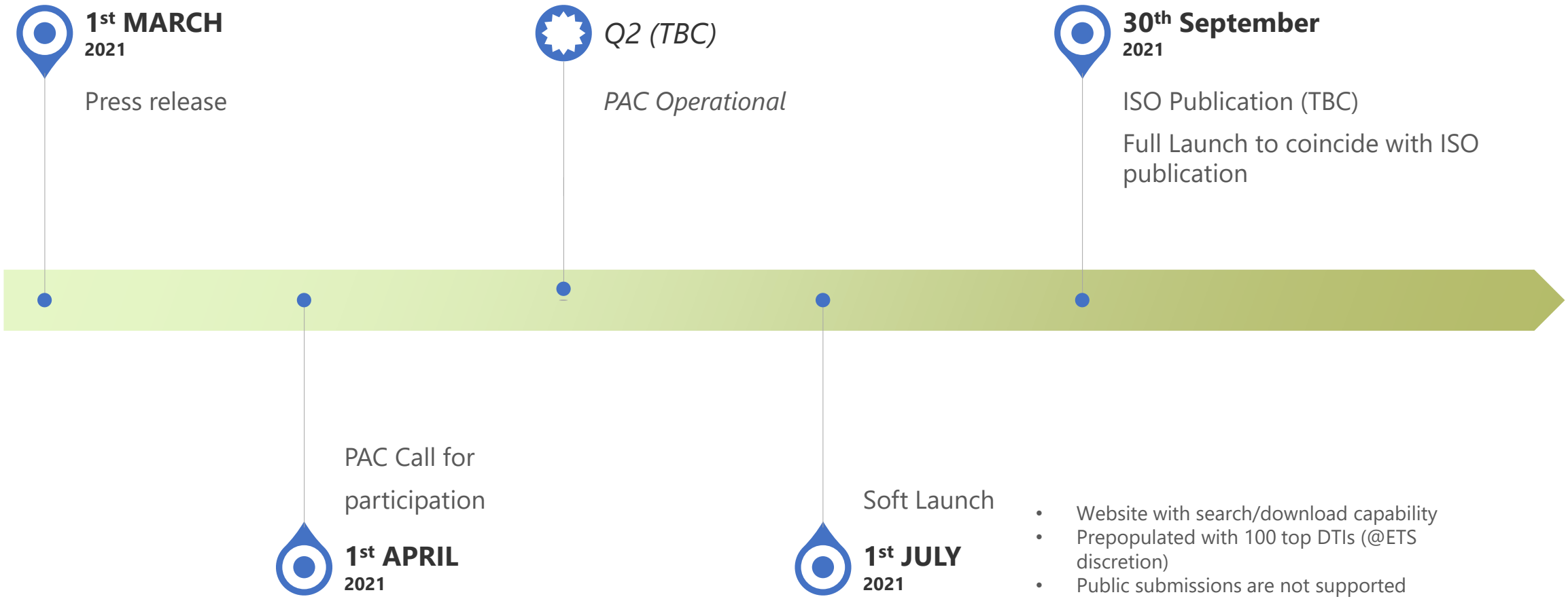
PROPOSED TIMELINE



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PRODUCT ADVISORY COMMITTEE

The Purpose

- Provide **recommendations to ISO** for the evolution of the DTI data records
- Provide **recommendations to Etrading Software** on the implementation guidelines for the DTI
- **Arbitrate on disputes** related to DTI issuance

The Key Governance Principles

- **Consensus-based decision-making** – focus on reaching unanimity on decisions, or failing that, on providing space for minority opinions to be expressed alongside majority recommendations
- **Public agendas and minutes** – and potentially occasional public deliberations
- **Diversity of representation** – to ensure balanced decision making across the stakeholder community

PRODUCT ADVISORY COMMITTEE - APPROACH

Key Objectives

1. Provide product stewardship to ETS Board
2. Provide advice on application and utilization of DTIs
3. Advise ETS on the implementation of future product enhancements

Scope

1. Submit reports and recommendations to ETS Board
    a. Definition of products and how they are supported
    b. Existing and future industry use cases
    c. Issuance service support including communication with users and dispute resolution
2. Review service/markets metrics for DTIs
    a. Data quality metrics
    b. Service availability metrics
    c. Number of applications and resolution time

PRODUCT ADVISORY COMMITTEE – MEMBERSHIP

1. Meeting frequency
   a. At least once a month, more frequently as required prior to launch
   b. 2-year scope
2. Number of members: up to 20
3. Aim for diversity of industry participant types
4. Aim for a balanced geographic representation from US, EMEA and Asia.
5. Membership based on the organization rather than individual

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INDUSTRY INPUT REQUIRED

NEXT STEPS

- Identify stakeholders with a requirement for a soft launch in mid 2021
  - Work with such stakeholders to understand their requirements and to shape a soft service launch that meets their requirements for mid 2021

- Publish draft terms of reference for Product Advisory Committee ("the Charter")
  - Work with key stakeholders to finalize the Charter
  - Launch call for participation on Product Advisory Committee after finalization of the Charter

Questions?

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