



# **ISIN-DTI Guide**

Date: November 2024 Version: 1.3

### Version History

Version	Summary of Changes	Date	Author
1.0	Initial version	17 Oct 23	D. Dounaev
1.1	Updated diagram in the DTI to ISIN link section	05 Jan 24	D. Dounaev
1.2	ISIN and DTI FFG allocation criteria & Appendix A	03 Sep 24	D. Dounaev
1.3	Updated DTI to ISIN Link diagram to include LEI	15 Nov 24	D. Dounaev

### Background

The rapid ascent of cryptocurrencies has brought forth significant customer risks, necessitating the establishment of an international standard for their global identification and regulation. International Standards Organisation created ISO 24165 (DTI) standards to address industry and regulatory needs. Digital Token Identifier Foundation (DTIF) was as the Registration Authority, responsible for issuance and maintenance of DTIs.

The DTI standard was created to complement existing ISO standards, particularly the ISO 6166 International Securities Identification Number (ISIN), which for 40 years has been used to identify financial instruments. DTIF approached the Association of National Numbering Agencies (ANNA), Registration Authority for the ISO 6166 standard and a global member association of National Numbering Agencies (NNAs) responsible for issuance and maintenance of ISINs as registration agents, to set up a task force to explore and identify synergies in the assignment of the respective identifiers for digital tokens that are within the scope of both issuing authorities. This task force was established in March 2021, agreed principles, developed recommendations and signed an MOU in July 2023.

# Task Force Findings

The task force determined that DTI and ISIN are complementary in nature, with the DTI focus on identifying the token implementation and ISIN to uniquely identify the related token asset.

The following collaboration activity was ratified by ANNA and ETS (Etrading Software, a parent company of DTIF) in the Memorandum of Understanding:

- 1. Establishment of processes between ANNA and DTIF to cross populate the identifiers in respective databases.
- 2. Issuing XT ISINs for tokenized referential instruments as defined in the scope section and establishing a process of addition to the registry.
- 3. Establishing process for issuing DTIs for security tokens (including capture of the DLT).

Link to Task Force Documentation: https://dtif.org/task-forces/anna-ets-dti-task-force/

# XT ISIN Scope

Crypto assets that are not financial instruments in accordance with ISO 10962 CFI classification are treated as referential instruments and therefore are in scope for XT ISIN allocation.

Note 1: Jurisdiction-agnostic approach has been applied due to regulatory divergence in the treatment of crypto assets across jurisdictions.

Note 2: Centralised approach has been applied due to an absence of clear definition and identification of an issuer for such referential instruments.

Note 3: NFTs are currently out of scope and will be addressed at a future date (this does not apply for financial instruments issued in NFT form).

*Note 4: Existing referential instruments for which ISIN allocation rules already exist are not in scope for XT ISINs* 

The approach has been proposed in order to:

- Centralise allocation to facilitate harmonization, reduce duplication of effort and strengthen building of expertise;
- Keep high data quality: avoid more than one ISIN per crypto asset;
- Facilitate interoperability between different ISO standards: ISIN & DTI;
- Preserve established federated model of ISIN allocation where it's currently in place today.

#### DTI standard update

The DTI standard is currently undergoing an ISO review process, with the updated standard scheduled for publication in early 2025. The anticipated revisions encompass: the renaming of the Functionally Fungible Group to the Equivalent Digital Token Group, and the introduction of the Digital Ledger Identifier (DLI) to uniquely identify Distributed Ledger Technologies (DLTs).

Upon publication of the new standard, the guide will be updated accordingly. Please be advised that, according to the proposal, DTIs and XT ISINs will remain unchanged, and DLIs will not be included within the scope of an XT ISIN.

# DTI to ISIN Link



The allocation of an ISIN represents the identification of an instrument rather than the market an instrument trades on or DLT it is created on. As such, any digital instruments that are fungible (i.e. considered to be equivalent) will be identified by one ISIN.

DTI represents an individual token per DLT, with fungible assets grouped into a Functionally Fungible Group (FFG) with its own DTI. This creates a one to many relationship between the ISIN and DTIs: each ISIN maintains the link to the FFG DTI and each DTI within that group.

#### Functionally Fungible Group

A Functionally Fungible Group (FFG) DTI is assigned to a group of tokens that represent the same asset. In order to minimize confusion in the market and create consistency between ISIN and DTI allocation, the task force has agreed that ISIN fungibility and FFG DTI inclusion rules shall follow the same criteria. This will ensure that:

- 1. Any individual DTI is linked to a single ISIN; and
- 2. ISIN is linked to a single FFG DTI (and DTIs within that group).

#### ISIN and DTI FFG allocation criteria

Digital tokens in scope for XT ISINs may be grouped into FFG DTI and allocated a single XT ISIN if they meet two or more criteria detailed in Appendix A.

Note: For traditional financial instruments, the standard procedure will continue to apply as usual, ensuring that all established protocols and practices are followed without any alterations.

#### Data

- DTIF
  - A free registry search functionality is available <u>here</u>.
  - Users can search by DTI, long or short name to find the token and discover ISIN code (if one has been assigned).
- ANNA
  - All the ISINS that have been linked to DTIs are available here.

### Next Steps

The assignment of XT ISINs will continue in a phased approach, and the DTI and ISIN registries cited above maintained with ISIN-DTI mappings accordingly.

In order to gather valuable insights and perspectives from industry stakeholders, we encourage feedback on this process.

All feedback received will be thoroughly reviewed and we will engage in further consultations and discussions to address the valuable insights shared. Our continuing aim is to enhance our process in a manner that aligns with industry needs and regulatory requirements.

### Definitions

- Association of National Numbering Agencies (ANNA): the limited liability company which is a global member association of National Numbering Agencies (NNAs) and ISO Registration Authority for the ISO 6166 and ISO 18774 standards.
- **Digital Token Identifier Foundation (DTIF)** a non-profit division of (ETS) and ISO Registration Authority for the ISO 24165 standard
- Digital Token Identifier (DTI): the identifier described by ISO 24165.
- International Securities Identification Number (ISIN): the identifier described by ISO 6166

Appendix A:	Criteria	for FFG	Allocation
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Reason	Description	Example 1: Tether	Example 2: Bitcoin	Example 3: Bitcoin	Example 4: Native	Example 5: ATOM
		USD on different DLTs	and wrapped Bitcoin	and Bitcoin on	and Auxiliary TRON	token on Cosmos and
				Lightning	tokens	Osmosis
Architectural	Are the tokens	Yes.	No.	Yes.	Yes.	Yes.
	implemented with					
	consistent design	Rationale: On all DLTs	Rationale: Bitcoin	Rationale:	Rationale: Both	Rationale: Both
	principles and	where Tether USD is	does not have a	Micropayment	tokens represent the	tokens represent the
	architectural	implemented, the	pegged value. wBTC is	Lightning channels	same asset.	same asset and are
	specifications?	Tokens are backed by	backed by Bitcoin	use real bitcoin		architecturally linked.
		the same asset and	tokens.	transactions, only		
	Considerations:	purport to remain		electing to defer the		
	Are they backed by	pegged to the same		broadcast to the		
	the same asset and	value.		blockchain in such a		
	pegged to the same			way that both parties		
	value?	They have the same		can guarantee their		
		architecture and		current balance on		
		design principles		the blockchain.		
Organisational	Are the tokens	Yes.	No.	No.	Yes.	Yes.
	created and					
	maintained by the	Rationale: TetherUSD	Rationale: Bitcoin is	Rationale: Bitcoin is	Rationale: Both	Rationale: Both
	same organisation?	is maintained by the	issued by the Bitcoin	issued by the Bitcoin	tokens are	tokens are
		organisation behind	blockchain as a	blockchain as a	maintained by the	maintained by the
		Tether. The same	reward for mining.	reward for mining.	same organisation.	same organisation.
		organisation manages	wBTC is issued	Micro transactions on		
		underlying assets as	through bridges or	Lightning are created		
		well as creation and	other protocols "on	using smart contract		
		redemption of tokens.	demand".	functionality.		

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Technical	Do the tokens share	No.	No.	Yes.	No.	Yes.
	technical					
	implementation?	Rationale: TetherUSD	Rationale: Bitcoin	Rationale: Lightning	Rationale: Although	Rationale: Cosmos
		on different DLTs is	exists only on the	Bitcoin network sits	both tokens sit on the	and Osmosis are
	Considerations:	technically different.	Bitcoin blockchain.	on top of Bitcoin	same DLT, they are	technically linked.
	Are the DLTs on which	There are different	wBTC can be on	blockchain and	identified by different	
	tokens are	token standards,	different blockchains.	therefore	technical data	
	implemented linked	different smart	Again: Bitcoin and	native/protocol	elements	
	without a third party?	contract codes,	wrapped Bitcoin	Bticoin and Lightning		
	Can transactions in	different blockchains	cannot be held in the	Bitcoin share the	DTI 993D8X1FB:	
	one token be settled	used. For example,	same wallet. wBTC is	same underlying DLT	Identified as a native	
	by another token?	TetherUSD on	created through		token to TRON	
		Ethereum cannot be	interaction with a	https://lightning.netw	blockchain based on	
		held in the same	smart contract,	ork/lightning-	the ledger	
		wallet as TetherUSD	whereas Bitcoin is	network-paper.pdf	genesis/block history	
		on Solana.	not.		DTI 523PVPHKS:	
					Identified as an	
					auxiliary token with	
					technical reference 0	
					on the TRON	
					blockchain:	
					https://tronscan.org/	
					#/token/0/transfers	
Result:		2 out of 3 criteria are	0 out of 3 criteria are	2 out of 3 criteria are	2 out of 3 criteria are	3 out of 3 criteria are
		met. TetherUSD	met. Bitcoin and	met. Bitcoin and	met. TRON tokens	met. ATOM tokens
		shares the same ISIN	wrapped Bitcoin are	Bitcoin on Lightning	share the same ISIN	share the same ISIN
		& DTI FFG across	not grouped into FFG	share the same ISIN &	and DTI FFG.	and DTI FFG.
		different DLTs.	and do not share the	DTI FFG across		
			same ISIN.	different DLTs.		

DTIs:	FFG: L09Q657BK	Bitcoin: 4H95J0R2X	FFG: V15WLZJMF	FFG: HZ9HHNPLG	FFG: 6C7F2WVZH
	75T0GP5WJ;	Wrapped Bitcoin:	Bitcoin:	TRON (native):	ATOM on Cosmos:
	2QWSBDMNC;	ZN227BVRW	4H95J0R2X	993D8X1FB	JVMWS68W1
	NJ7X4BCTD;				
	PJ1BC8W44;		Bitcoin on Lightning:	TRON (auxiliary):	ATOM on Osmosis:
	C9N6ZVN7S;		K1NS41N51	523PVPHKS	DJOQPRHOW
	Z7ZX774BJ;				
	FZP9CBTG1;				
	PDX13MN94;				
	BHQ70PZ11;				
	6QBMW6DQZ;				
	JGJZPPF7Z;				
	NSTDLD1N5;				
	TZFM5MHWR;				
	29DD3R2SH				
ISIN(s):	XTL09Q657BK6	Bitcoin:	XTV15WLZJMF0	XTHZ9HHNPLG8	XT6C7F2WVZH0
		XTV15WLZJMF0			
		Wrapped Bitcoin			
		(NEW):			
		XTH9ZJCGQXD6			