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Blockchain Task Force

Task Force Progress – Blockchain Webinar 25 June 2020

Task Force leaders: IP Australia and Rospatent

Task Force Roadmap



Task force objectives



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- a) Explore the possibility of using blockchain technology in the processes of providing IP rights protection, processing information about IP objects and their use;*
- b) Collect information about IPO developments in use of and experience with blockchain, assess current Industry Standards on blockchain and consider merit and applicability to IPOs;*
- c) Develop reference models of using blockchain technology in the IP field, including guiding principles, common practice and use of terminology as a framework supporting collaboration, joint projects and proofs of concept; and*
- d) Prepare a proposal for a new WIPO standard supporting the potential application of blockchain technology within the IP ecosystem.*

Work in progress



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Excerpt from draft standard



ISO

ITU

NIST

2. DEFINITIONS AND TERMONOLOGY

2.1. Scope

For the purpose of this document the **List of Definitions and Terminology** has been collated as a baseline of commonly used key terms and definitions for blockchain and distributed ledger technology (DLT).

2.2. List of Definitions and Terminology

- 2.2.1. **account** [ITU/DTL-I-203] – representation of an entity whose data is recorded on a distributed ledger.
- 2.2.2. **address** [NIST/IR-8202] – a short, alphanumeric string derived from a user’s public key using a hash function, with additional data to detect errors. Addresses are used to send and receive digital assets
- 2.2.3. **application** [ISO/TC 307] – a structured set of capabilities, which provide value-added functionality supported by one or more services.
- 2.2.4. **asset** [ISO/TC 307] – anything that has value to a stakeholder
- 2.2.5. **asymmetric cryptography, public-key cryptography** [ISO/TC 307] – cryptography in which a public key and a corresponding private key are used for encryption and decryption
- 2.2.6. **block** [ISO/TC 307] – data structure comprising a block header and block data
- 2.2.7. **block data** [ISO/TC 307] – data structure comprising transaction records or references to transaction records or that is empty
- 2.2.8. **block header** [ISO/TC 307] – data structure that includes a cryptographic link to the previous block
- 2.2.9. **block reward** [ISO/TC 307] – reward given to miners when a block is confirmed in a blockchain system
- 2.2.10. **blockchain** [ISO/TC 307] – distributed ledger with confirmed blocks organized in an append-only, sequential chain using cryptographic links
- 2.2.11. **Blockchain as a Service (BaaS)** [ITU/DTL-I-203] – a cloud service category in which the capabilities provided to the cloud service customer are the ability of consensus, smart contract, transaction, crypto engine, block record storage, peer-to-peer connectivity and management using blockchain
- 2.2.12. **blockchain system** - [ISO/TC 307] – system that implements a blockchain
- 2.2.13. **confirmed** [ISO/TC 307] – state of a transaction when consensus is reached about its inclusion in a distributed ledger
- 2.2.14. **conflict** [NIST/IR-8202] – one or more participants disagree on the state of the system
- 2.2.15. **conflict resolution** [NIST/IR-8202] – a predefined method for coming to a consensus on the state of the system
- 2.2.16. **consensus** [ISO/TC 307] – agreement among DLT nodes that 1) a transaction is validated and 2) that the distributed ledger contains a consistent set and ordering of validated transactions

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TF co-leaders are drafting the remaining sections with current focus on the Section 5 of the Standard “Technology and interoperability”

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- The list of terms and definitions is currently under consideration by the Task Force Members
- The Technology and interoperability section is currently drafted by the Task Force co-leaders for further update of the draft and consideration among participating IP Offices

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Section 5 of the draft Standard covers the following Blockchain technology aspects and is being drafted using the Terms and Definitions presented before:

- Platform
- Security
- Types e.g. Smart contracts, DLT
- Coding language



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Thank you