

CWS/9 Agenda Item 7(b) "Report on the Blockchain Whitepaper for IP ecosystem"

Topics for discussion

Objectives and composition of the Whitepaper

- Preparatory activities
- Key features of Blockchain and Blockchain Rationale
- > Overview of IP ecosystems and Blockchain uses
- > Potential Blockchain applications in IP ecosystems
- Key findings and Considerations & Areas of future works
- Mockup: Decentralized Identifiers

Main objectives of Whitepaper

Gather information	Explore the	Analyze
on how blockchain	opportunities and	implications of
is perceived in	challenges of	blockchain
general and within	using blockchain	applications in IP
IP community	technologies for IP	space
Identify potential applications of blockchain in IP ecosystems	Support the Blockchain Task Force	Suggest recommendations for consideration

Whitepaper consists of

Executive Summary & Main body with 4 Annexes

Annex I: Overview of IP ecosystems

Annex II: Survey results

Annex III: Potential use cases

Annex IV: Mock-up DIDs



Preparatory Activities

Desk Research on BC based applications:

- Projects/initiatives/research works related to IP in the last 4 years
- Applications are being used or explored around the globe in all IP value chain, but still in PoC or pilot

Survey: 139 responses from IPOs and IP industry

- Questionnaire: 6 sections and 64 questions
- Majority of participants work in IP legal services (40%) and management (31%) focusing on the protection and management phases of the IP ecosystem.

Interviews with 10 organisations and entities

Whitepaper Webinar and Publication

Webinar on WIPO blockchain whitepaper

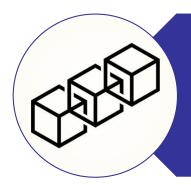
 Webinar toward launch of the whitepaper held on September 28, 2021

CWS/9 - factual information checking

- Feedback from one CWS member on the whitepaper mainbody
- Improvement on Annexes III and IV

Publication in November 2021

Key features of Blockchain



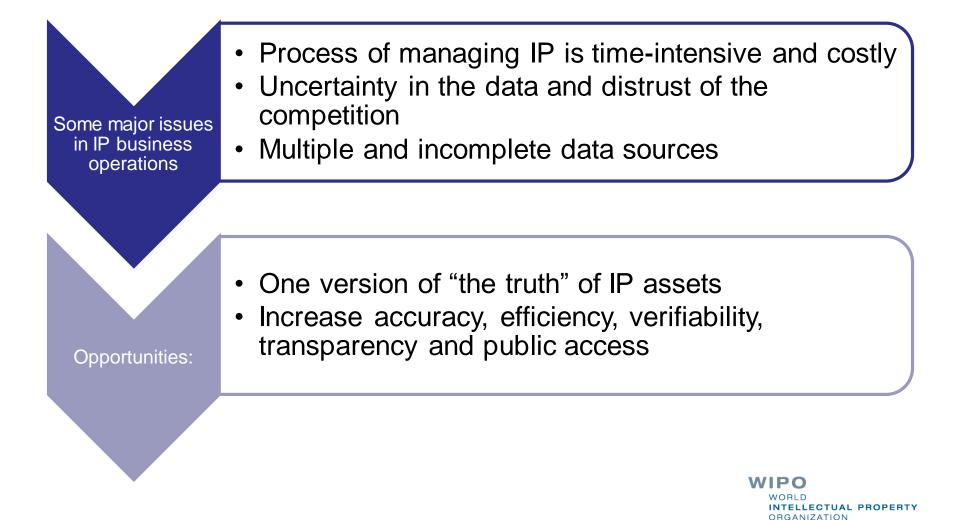
- Decentralization, distributed ledgers, consensus mechanisms, immutability of records and encryption



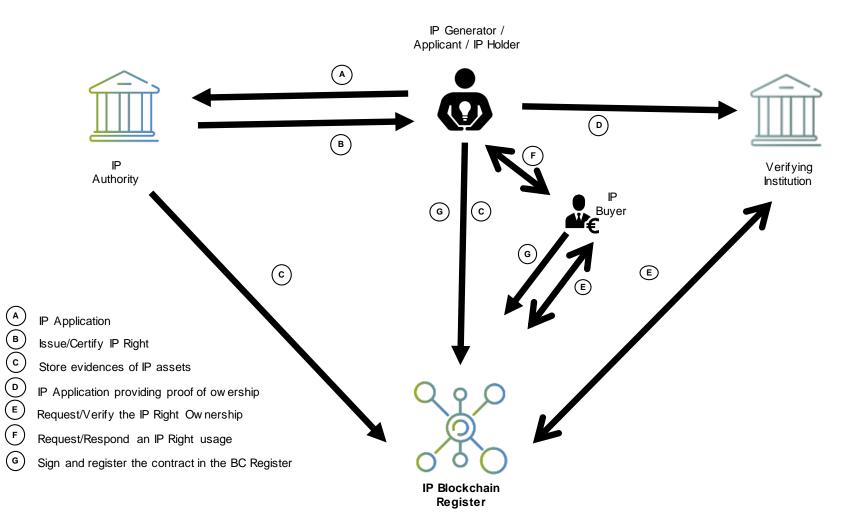
 Tokenization, Smart Contracts, Automation and Self-Sovereign Identity (SSI)

> WIPO WORLD INTELLECTUAL PROPERTY ORGANIZATION

Blockchain Rationale in IP ecosystems



Blockchain use in IP ecosystems



Potential Applications in IP ecosystems

Horizontal Uses



Digital Identity



Trust data sharing



Timestamping



Proof of existence of intellectual assets



Provenance authentication

Many others

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Vertical Uses



IP Registers



Evidence of trademark use



IPR Transfer/Licensing



IP Ownership Management



IPR Enforcement



Priority doc exchange

Many others

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Key findings (1/2)

Blockchain is impacting every industry

Cultural transformation as well as technological transformation toward a programmable society

Hype seems over, but Blockchain is still at its early stage

Numerous blockchain initiatives at international level and in IP space

Key findings (2/2)

Disrupting and complementing IP business operations

Various oppirtunites and challenges identified

Common identification of IP assests and entities

Importance of Verifiers' role

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Main Considerations



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Annex IV: Mockup



Decentralized Identifiers (DID)

This mock-up has been built around the concept of using decentralized identifiers of a legal entity/ individual and demonstrates the suitability of blockchain-based technologies for the use of identifiers in the lifecycle of an IP asset.

Decentralized identifiers (DIDs), implemented via blockchain, enable a verifiable decentralized identity (credentials) to allow an object – defined by the owner of the identity – (person, company, abstract identity, etc.) to be identified.

Business Rationale

DID with legal validity provide multiple benefits:

- Trust between entities
- Improvement of the efficiency of operations
- Reduction of complexity by providing more seamless and streamlined service experience, removing duplication, and making online transactions easier
- Standardized procedure of identification, agreed by network consensus (vs central authorities);
- Private entities control their identity and the information they share in each operation/transaction
- All the network Entities are able to see the claims made against other legal entities (non-GDPR protected).

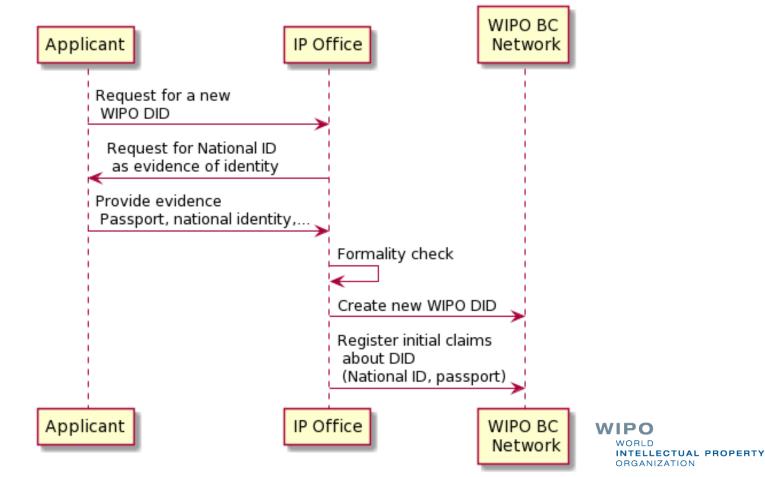
7 Use Cases

ASSIGNMENT AND MANAGEMENT OF DID

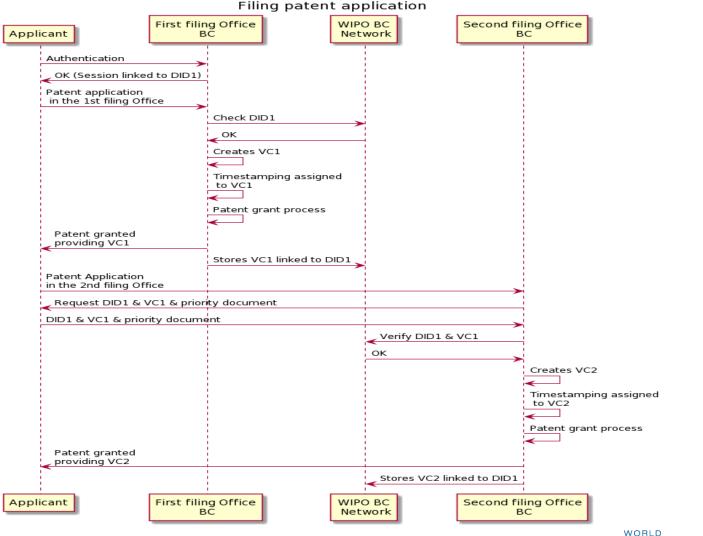
- Issue of a new DID to Applicant
- IP Offices' Management of Existing WIPO DIDs
- > A User loses his/her digital identity
- > PATENT LIFECYCLE
 - > Timestamping on a pre-filing data lab notes
 - Filing Patent Application
 - > Change of ownership of IP Right
 - > IP owner licenses a patent

Use Case: Issue of a new DID

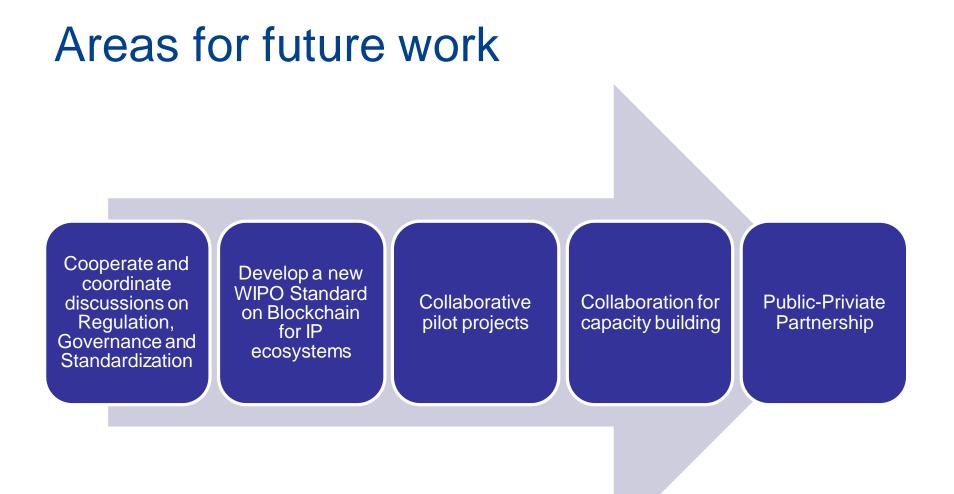
Assignment of a new DID to Applicant



Use Case: Patent Application Filing



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Questions



