



REPUBLIC OF SLOVENIA
MINISTRY OF ECONOMIC DEVELOPMENT
AND TECHNOLOGY



Ljubljana, 17 June 2020

UNECE, UN/CEFACT

White Paper

Technical Applications of Blockchain to UN/CEFACT deliverables

Key topics:

- Leveraging existing semantic standards CCL (Core component library)
- Architecture reference model to enable mapping of UN/CEFACT semantic standards to newer technologies, such as blockchain, IoT
- Focus areas: supply chain, e-commerce, transport (bill of lading) and trade facilitation, automotive industries

OECD:

Standards with the relevance to blockchain:

- in the fields of privacy policy regarding personal data, digital security and risk management, consumer protections and e-commerce, multinational companies and e-commerce, etc.

EBP:

***TechGov Working group established within EBSI
Technical group to develop standards for EBSI***

UN/CEFACT CHAIN White paper

– crossborder interoperable blockchain infrastructure

- (1) taking into consideration existing standards for implementation of cross border Blockchain infrastructure in an interoperable manner, regarding
 - (i) architecture reference model,
 - (ii) process modelling for Smart contracts to test and implement use cases
 - (iii) Blockchain application data needs
- (2) based on analysis of
 - (a) Legal interoperability
 - (b) Governance interoperability
 - (c) Technical interoperability

	»Relay« or Multi- DLT interoperability	DLT Systems Interoperability	Consensus Interoperability
1. Legal Interoperability	Legal frameworks, authentication and authorization identity, ...		
2. Governance Interoperability	Governance models, commercial model, on-chain, of-chain, policies, consensus mechanisms		
3. Technical Interoperability	Data standardization, token transfer, certificates, smart contracts, containerization, consensus mechanisms, ...		
4. Quantum Key Distribution	Using Quantum Key Distribution as basis for establishing secure DLT infrastructure, ...		
5. Use Cases	Use cases illustrating interoperability along legal, governance and technical areas		

UN/CEFACT project UNECE Chain working groups preparing
Whitepaper on strategy for development and implementation of interoperable global
blockchain technology infrastructure



REPUBLIC OF SLOVENIA
MINISTRY OF ECONOMIC DEVELOPMENT
AND TECHNOLOGY

Thank you for your attention,
M.Sc. Nena Dokuzov,
Head of Project Group of New
Economy and Blockchain
Technologies

E-mail: nenadokuzov@gov.si,

Tel. +386 (0)41 675 944