This document contains supplemental information referenced by the European Rolling Plan for ICT Standardisation.

IEEE Standards Activities in Blockchain

Overview

IEEE has standards and pre-standards activities relevant to blockchain, including a new standards working group on developing a blockchain framework for different applications, including IoT, agriculture, and autonomous vehicles, as well as a pre-standardisation project on digital inclusion and agency, which leverages blockchain technology.

IEEE recognizes the vital role standards will play in the development and adoption of blockchain technologies. IEEE Standards Association (IEEE-SA), a globally recognized standards-setting body within IEEE, has been actively pursuing blockchain standardisation efforts through various activities in multiple industry sectors, including the launch of the world's first Advancing HealthTech for Humanity™ virtual blockchain workshop.

The IEEE Blockchain Initiative will collaborate with IEEE-SA to further develop and progress blockchain related standards.

Relevant Standards Activities

Active Standards Projects or Approved Standards

- IEEE P825, Guide for Interoperability of Transactive Energy Systems with Electric Power Infrastructure (Building the Enabling Network for Distributed Energy Resources)
- IEEE P2140.1: Standard for General Requirements for Cryptocurrency Exchanges
- IEEE P2140.2: Standard for Security Management for Customer Cryptographic Assets on Cryptocurrency Exchanges
- IEEE P2140.3: Standard for User Identification and Anti-Money Laundering on Cryptocurrency Exchanges
- IEEE P2140.4: Standard for Distributed/Decentralized Exchange Framework using DLT (Distributed Ledger Technology)
- IEEE P2140.5: Standard for Custodian Framework of Cryptocurrency
- IEEE P2143.1: Standard for General Process of Cryptocurrency Payment
- IEEE P2143.2: Standard for Cryptocurrency Payment Performance Metrics
- IEEE P2143.3: Standard for Risk Control Requirements for Cryptocurrency Payment

- [IEEE P2410-2019](#): IEEE Standard for Biometric Open Protocol
- [IEEE P2412.1](#): Recommended Practice for E-Invoice Business Using Blockchain Technology
- [IEEE P2418.1](#), Standard for the Framework of Blockchain Use in IoT
- [IEEE P2418.2](#): Standard Data Format for Blockchain Systems
- [IEEE P2418.3](#): Standard for the Framework of Distributed Ledger Technology (DLT) Use in Agriculture
- [IEEE P2418.4](#): Standard for the Framework of Distributed Ledger Technology (DLT) Use in Connected and Autonomous Vehicles
- [IEEE P2418.5](#): Standard for Blockchain in Energy
- [IEEE P2418.6](#): Standard for the Framework of Distributed Ledger Technology (DLT) Use in Healthcare and the Life and Social Sciences
- [IEEE P2418.7](#): Standard for the Use of Blockchain in Supply Chain Finance
- [IEEE P2418.8](#): Standard for Blockchain Applications in Governments
- [IEEE P2418.9](#): Cryptocurrency Based Security Tokens
- [IEEE P2418.10](#): Standard for Blockchain-based Digital Asset Management

Industry Connections

- [IC17-002-01](#): Digital Inclusion, Identity, Trust and Agency (DIITA)
- [IC17-012-01](#): Supply Chain & Trials Standardized Technology and Implementation
- [IC17-017-01](#): Blockchain Asset Exchange

Draft standards projects, once approved, are often revised and/or used as the base for new projects, and therefore may appear in both the "active standards" and "projects under development" lists.

**For the full and most-up-to-date list, please go to
https://standards.ieee.org/standard/index.html