P2140.4

Submitter Email: hehehu@gmail.com
Type of Project: New IEEE Standard
PAR Request Date: 19-Apr-2019
PAR Approval Date: 13-Jun-2019
PAR Expiration Date: 31-Dec-2023
Status: PAR for a New IEEE Standard

1.1 Project Number: P2140.4
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Standard for Distributed/Decentralized Exchange Framework using DLT (Distributed Ledger Technology)

3.1 Working Group: Cryptocurrency Exchange Working Group (CES/BSC/CEWG)
Contact Information for Working Group Chair
   Name: Daozhuang Lin
   Email Address: john.lin@ieee.org
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Contact Information for Working Group Vice-Chair
   None

3.2 Sponsoring Society and Committee: IEEE Consumer Electronics Society/Blockchain Standards Committee (CES/BSC)
Contact Information for Sponsor Chair
   Name: Clarence Stogner
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4.1 Type of Ballot: Entity
4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 08/2021
4.3 Projected Completion Date for Submittal to RevCom
   Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 08/2022

5.1 Approximate number of entities expected to be actively involved in the development of this project: 20
5.2 Scope: This standard defines an extension framework based on P2140.1. The extension framework uses a Smart Contract mechanism to process transactions on an exchange, to replace the role of exchange operators. Cryptographic solutions to provide "data privacy" and "data protection" are defined. This standard also defines a series of extensible interfaces for the exchange scenario, enabling support of third-party financial derivatives using tokens.

5.3 Is the completion of this standard dependent upon the completion of another standard: Yes
   If yes please explain: P2140.1

5.4 Purpose: This document will not include a purpose clause.
5.5 Need for the Project: Exchange operators defined in P2140.1 is a role to operate in the key steps of cryptocurrency and digital asset exchange workflows. However, if there is a mechanism to manage the workflow, end users of exchange transactions are the only entities that take part in the exchange workflow. These exchange services will provide security and transparency service with "more trust". With the identity system of trust "persons, things, assets, events", the exchange can be extend to third-party decentralized financial services.

5.6 Stakeholders for the Standard: The universality and practicality of this standard relates to owners of digital assets and cryptocurrency, blockchain project teams, digital assets evaluators, cryptocurrency market makers, public/private investors.
Intellectual Property
6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No
6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: No
7.2 Joint Development
   Is it the intent to develop this document jointly with another organization?: No

8.1 Additional Explanatory Notes: IEEE P2140.1 Standard for General Requirements for Cryptocurrency Exchanges