

# P2418.3

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**Type of Project:** New IEEE Standard

**PAR Request Date:** 16-Mar-2018

**PAR Approval Date:** 14-May-2018

**PAR Expiration Date:** 31-Dec-2022

**Status:** PAR for a New IEEE Standard

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**1.1 Project Number:** P2418.3

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

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**2.1 Title:** Standard for the Framework of Distributed Ledger Technology (DLT) Use in Agriculture

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**3.1 Working Group:** Distributed Ledger Technology in Agriculture (C/SAB/DTLA WG)

**Contact Information for Working Group Chair**

**Name:** Richard Yu

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**Contact Information for Working Group Vice-Chair**

None

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**3.2 Sponsoring Society and Committee:** IEEE Computer Society/Standards Activities Board (C/SAB)

**Contact Information for Sponsor Chair**

**Name:** p eastman

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**Contact Information for Standards Representative**

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**4.1 Type of Ballot:** Individual

**4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot:** 12/2019

**4.3 Projected Completion Date for Submittal to RevCom**

**Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 10/2020**

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**5.1 Approximate number of people expected to be actively involved in the development of this project:** 25

**5.2 Scope:** This standard provides a common framework for distributed ledger technology (DLT) usage, implementation, and interaction in agriculture. The framework addresses scalability, security and privacy challenges with regard to DLT in agriculture. DLT tokens, smart contracts, transactions, assets, networks, permissioned agriculture DLT, and permission-less agriculture DLT are included in the framework.

**5.3 Is the completion of this standard dependent upon the completion of another standard:** No

**5.4 Purpose:** The purpose of this standard is to provide definitions and a protocol for DLT implementations within a agriculture architectural framework.

**5.5 Need for the Project:** With rising consumer consciousness towards food safety, DLT can play a vital role in solving many agriculture-related problems, such as food safety, traceability, food supply chain, and logistics. The use of DLT for agriculture enables provenance and radical transparency, decreased transaction costs, and efficient management of transactions and financing. There is an urgent need for standards that will offer a protocol, common vernacular and support interoperability among DLT platforms. Standardization of a framework for DLT use in agriculture will provide a base common understanding enabling innovation in agriculture- markets.

**5.6 Stakeholders for the Standard:** Farmers, retailers, supply chain providers, equipment suppliers in agriculture industries and consumers. Sectors interested in this will include agriculture, food, supply chain, retail.

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**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**

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**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**

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**8.1 Additional Explanatory Notes:**