

P2144.1

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Type of Project: New IEEE Standard

PAR Request Date: 23-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: P2144.1

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Framework of Blockchain-based Internet of Things (IoT) Data Management

3.1 Working Group: Trusted IoT Data Management Working Group (CES/BSC/TIDMWG)

Contact Information for Working Group Chair

Name: Hui Ding

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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

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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 a framework of Blockchain-based Internet of Things (IoT) data management. It identifies the common building blocks of the framework that Blockchain enabled during IoT data lifecycle including data acquisition, processing, storage, analyzing, usage/exchange and obsolescence, and the interactions among these building blocks.

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

5.4 Purpose: This document will not include a purpose clause.

5.5 Need for the Project: The current implementations of IoT devices and systems do not provide means for trusted IoT data management during full data lifecycle. This standard will help stakeholders in IoT ecosystem to manage their data and extract most value from it.

5.6 Stakeholders for the Standard: IoT service provider, consumer, government, IoT equipment manufacturer.

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: