

P2050

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Type of Project: New IEEE Standard

PAR Request Date: 16-Oct-2017

PAR Approval Date: 06-Dec-2017

PAR Expiration Date: 31-Dec-2021

Status: PAR for a New IEEE Standard

1.1 Project Number: P2050

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Real-time Operating System (OS) for Small-scale Embedded Systems

3.1 Working Group: Internet of Things Working Group (CES/SC/IoT)

Contact Information for Working Group Chair

Name: Stephen Dukes

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Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE Consumer Electronics Society/Standards Committee (CES/SC)

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: 04/2018

4.3 Projected Completion Date for Submittal to RevCom

Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 10/2018

5.1 Approximate number of entities expected to be actively involved in the development of this project: 10

5.2 Scope: This standard specifies a real-time OS for small-scale embedded systems such as systems with single chip microcomputer including 16-bit CPU, systems with small amount ROM/RAM, and systems without MMU.

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: Small-scale embedded systems constitute the majority of IoT (Internet of Things) devices. This project is needed to make it easy to customize and optimize the implementation for small-scale embedded systems, and address the distribution and portability of device drivers and middleware.

5.6 Stakeholders for the Standard: Manufacturers, service providers, technology developers, users and other parties in consumer electronics and other related industries

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: The copyrights to the TRON muT-Kernel 2.0 specification have been assigned to IEEE in 2017. The plan is to review the material in an IEEE working group and ratify the content of the specification as a new IEEE standard.