

P1934

Submitter Email: jkzao@openfogconsortium.org

Type of Project: New IEEE Standard (adoption)

PAR Request Date: 27-Jul-2017

PAR Approval Date: 28-Sep-2017

PAR Expiration Date: 31-Dec-2021

Status: PAR for the Adoption of a Non-IEEE Standard

* Adoption of a Non-IEEE Standard *

1.1 Project Number: P1934

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: OpenFog Reference Architecture for Fog Computing

3.1 Working Group: Fog Computing Architecture Framework (COM/SDB/FOG)

Contact Information for Working Group Chair

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3.2 Sponsoring Society and Committee: IEEE Communications Society/Standards Development Board (COM/SDB)

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None

4.1 Type of Ballot: Entity

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 10/2017

4.3 Projected Completion Date for Submittal to RevCom

Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 02/2018

5.1 Approximate number of entities expected to be actively involved in the development of this project: 20

5.2 The Scope of this project is adoption of: OpenFog Consortium - OpenFog Reference Architecture for Fog Computing [ID: OPFRA001.020817] as an IEEE Standard

5.3 Scope of the document being adopted: OpenFog Reference Architecture [OPFRA001.020817] is a structural and functional prescription of an open, interoperable, horizontal system architecture for distributing computing, storage, control and networking functions closer to the users along a cloud-to-thing continuum of communicating, computing, sensing and actuating entities. It encompasses various approaches to disperse Information Technology (IT), Communication Technology (CT) and Operational Technology (OT) Services through information messaging infrastructure as well as legacy and emerging multi-access networking technologies.

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

5.5 Purpose of the document being adopted: This document will not include a purpose clause.

5.6 Need for the Project: The IT, CT and OT convergence requires a standard on interoperable end-to-end communication and computing along the cloud-to-thing continuum. Such a standardized computing and communication platform can be a catalyst to accelerate the next digital revolution in many industries and services.

5.7 Stakeholders for the Standard: Telecommunication, Semiconductor, Internet Service Providers, Wireless Network Providers, Cloud Computing Providers, Software Platform and Analytics Providers, Industrial Automation and Robotics, Intelligent Transportation, Intelligent Agriculture and Precision Farming, Smart Grids, Smart Environments, Surveillance, Multimedia and Entertainment, Consumer Electronics, Educational and Training, Biomedical and Healthcare, Hospitality, Enterprise and Retail, Government and Military

Intellectual Property

6.1.a. Has the IEEE-SA staff obtained the necessary permissions for the adoption of this document?: Yes

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 OpenFog Consortium and IEEE signed an agreement for the adoption of the OpenFog Reference Architecture for Fog Computing [ID: OPFRA001.020817]. This PAR is in accordance with the process outlined.