P2796.2

Submitter Email: cuikai@smart-haier.com
Type of Project: New IEEE Standard
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Status: PAR for a New IEEE Standard
Project Record: P2796.2

1.1 Project Number: P2796.2
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Standard for Data Exchange Architecture and Interface Requirements for Internet of Food (IoF) Systems

3.1 Working Group: Internet of Food (C/SAB/IoF)
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None

3.2 Sponsoring Society and Committee: IEEE Computer Society/Standards Activities Board (C/SAB)
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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: 12/2021
4.3 Projected Completion Date for Submittal to RevCom
Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 10/2022

5.1 Approximate number of entities expected to be actively involved in the development of this project: 10
5.2 Scope: The standard defines common exchange architecture and modeling technique to create interoperability of Internet of Food (IoF) devices, systems and applications. Data protocols and interface requirements are also specified to optimize whole supply chains from manufacturers to consumers and facilitate development of agile, reliable and sustainable IoF solutions for various service and networking scenarios.

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 design definitions, data protocols and exchange modeling for system implementations within IoF architectural framework.

5.5 Need for the Project: This standard is dedicated to accelerate development of Internet of Food (IoF) for securing sufficient, safe and healthy food chains. With the IoF technologies stepping into the agri-food sector, it will transform the entire food domain into agile, scalable and self-adaptive network solution in which smart objects operate, decide and learn autonomously and can be identified, sensed and controlled remotely. Wide-scale application of IoF for the service community improves health outcomes, reduces food waste and consequently leads to a drastically improved productivity and sustainability to address diverse user needs, including security, privacy and trust.

5.6 Stakeholders for the Standard: Manufacturers and users of IoF products, technology developers, equipment suppliers, cooperatives, food processing enterprises, logistics providers, retailers. Sectors interested in this will include agriculture, food, supply chain, retail.

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: