

P2690

Submitter Email: c.rodine@ieee.org
Type of Project: New IEEE Standard
PAR Request Date: 22-Mar-2016
PAR Approval Date: 12-May-2016
PAR Expiration Date: 31-Dec-2020
Status: PAR for a New IEEE Standard

1.1 Project Number: P2690
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Standard for Charging Network Management Protocol for Electric Vehicle Charging Systems

3.1 Working Group: Charging Network Management Protocol Working Group (VT/ITS/CNMP)

Contact Information for Working Group Chair

Name: Craig Rodine
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Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE Vehicular Technology Society/Intelligent Transportation Systems (VT/ITS)

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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: 08/2017

4.3 Projected Completion Date for Submittal to RevCom

Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 08/2018

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

5.2 Scope: This standard defines communications between Electric Vehicle Charging Systems (EVSC) and a device, network, and services management system, which is typically based "in the cloud" but could also include interfaces to site-specific components or systems (e.g. building energy management systems). It defines patterns, messages and parameters for monitoring and controlling such functions as user/vehicle authentication and authorization; charging session state; energy and service pricing, delivery and metering; managed and "smart" charging; EVSE device health; system fault detection and diagnosis; environmental sensing (vehicle proximity, position, presence); user-oriented communication; and support for other "e-mobility" and value added services.

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: There is an emerging need in global markets for a formal standard for communication between EVCS and external device/services management systems. Such a protocol standard will provide a basis for increasing functionality and interoperability between EVCS and charging services networks. However, there is currently no SDO-based project under way to meet this need.

5.6 Stakeholders for the Standard: The stakeholders for this standard include vendors of EVCS and charging management systems; their customers who purchase and install EV charging systems; auto OEMs who manufacture and sell Plug-in Hybrid and Electric Vehicles; EVSE component vendors; and potentially, a broad range of parties engaged in the electrification of transportation including utilities and their regulators, municipalities, and air quality boards.

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: