IOT Semantic Interoperability Workshop 2016

Position paper: Ecosystem Interoperability in Open Connectivity Foundation (OCF) – formerly Open Interconnect Consortium (OIC)

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Submitted as nominated representative of OCF/OIC

(This submission is a companion to another submission on Semantic Interoperability by same author)

Introduction

There are many IOT ecosystems and for full interoperability all these ecosystems must connect with each other. Each of the standards for these ecosystems have a lot of overlap with those of the other ecosystems. Data mapping would be useful in case of bridges/gateways between the two ecosystems. On the other hand, if one would like to interoperate without bridges then a mapping of the key concepts would be useful – this approach can be used if there is reasonable similarity in the architectural styles are similar.

The OCF has done some concept equivalence mappings for ecosystems that follow the RESTful paradigm e.g. IPSO and OneM2M.

Content

Please see Section 14 and Appendix C of the OIC Core Specification (in OIC_Core_Specification_v 1_0_0.pdf in the zip file at http://openconnectivity.org/wp-content/uploads/2015/09/OIC_Specifications_1.0.zip). The referenced content on OCF/OIC thought process in what is required for building interoperability between ecosystems with similar paradigms.