

OCF “Essen” – Use of the Baseline OCF Interface for UPDATE – Core Technology WG

CR 2846

Legal Disclaimer

THIS IS A DRAFT SPECIFICATION DOCUMENT ONLY AND HAS NOT BEEN ADOPTED BY THE OPEN CONNECTIVITY FOUNDATION. THIS DRAFT DOCUMENT MAY NOT BE RELIED UPON FOR ANY PURPOSE OTHER THAN REVIEW OF THE CURRENT STATE OF THE DEVELOPMENT OF THIS DRAFT DOCUMENT. THE OPEN CONNECTIVITY FOUNDATION AND ITS MEMBERS RESERVE THE RIGHT WITHOUT NOTICE TO YOU TO CHANGE ANY OR ALL PORTIONS HEREOF, DELETE PORTIONS HEREOF, MAKE ADDITIONS HERETO, DISCARD THIS DRAFT DOCUMENT IN ITS ENTIRETY OR OTHERWISE MODIFY THIS DRAFT DOCUMENT AT ANY TIME. YOU SHOULD NOT AND MAY NOT RELY UPON THIS DRAFT DOCUMENT IN ANY WAY, INCLUDING BUT NOT LIMITED TO THE DEVELOPMENT OF ANY PRODUCTS OR SERVICES. IMPLEMENTATION OF THIS DRAFT DOCUMENT IS DONE AT YOUR OWN RISK AMEND AND IT IS NOT SUBJECT TO ANY LICENSING GRANTS OR COMMITMENTS UNDER THE OPEN CONNECTIVITY FOUNDATION INTELLECTUAL PROPERTY RIGHTS POLICY OR OTHERWISE. IN CONSIDERATION OF THE OPEN CONNECTIVITY FOUNDATION GRANTING YOU ACCESS TO THIS DRAFT DOCUMENT, YOU DO HEREBY WAIVE ANY AND ALL CLAIMS ASSOCIATED HERewith INCLUDING BUT NOT LIMITED TO THOSE CLAIMS DISCUSSED BELOW, AS WELL AS CLAIMS OF DETRIMENTAL RELIANCE.

The OCF logo is a trademark of Open Connectivity Foundation, Inc. in the United States or other countries. *Other names and brands may be claimed as the property of others.

Copyright © 2019 Open Connectivity Foundation, Inc. All rights reserved.

Copying or other form of reproduction and/or distribution of these works are strictly prohibited.

7.6.3.1 Overview

OCF Interface methods shall not violate the defined OpenAPI 2.0 definitions for the Resources as defined in Annex A.

The defined OCF Interfaces are listed in Table 8.

Table 8 – OCF standard OCF Interfaces

OCF Interface	Name	Applicable Operations	Description
baseline	"oic.if.baseline"	RETRIEVE, NOTIFY, UPDATE ¹	The baseline OCF Interface defines a view into all Properties of a Resource including the Meta Properties. This OCF Interface is used to operate on the full Representation of a Resource.
links list	"oic.if.ll"	RETRIEVE, NOTIFY	The links list OCF Interface provides a view into Links in a Collection (Resource). Since Links represent relationships to other Resources, the links list OCF Interfaces may be used to discover Resources with respect to a context. The discovery is done by retrieving Links to these Resources. For example: the Core Resource "/oic/res" uses this OCF Interface to allow discovery of Resource hosted on a Device.
batch	"oic.if.b"	RETRIEVE, NOTIFY, UPDATE	The batch OCF Interface is used to interact with a Collection of Resources at the same time. This also removes the need for the Client to first discover the Resources it is manipulating – the Server forwards the requests and aggregates the responses
read-only	"oic.if.r"	RETRIEVE NOTIFY	The read-only OCF Interface exposes the Properties of a Resource that may be read. This OCF Interface does not provide methods to update Properties, so can only be used to read Property Values.
read-write	"oic.if.rw"	RETRIEVE, NOTIFY, UPDATE	The read-write OCF Interface exposes only those Properties that may be read from a Resource during a RETRIEVE operation and only those Properties that may be written to a Resource during and UPDATE operation.
actuator	"oic.if.a"	RETRIEVE, NOTIFY, UPDATE	The actuator OCF Interface is used to read or write the Properties of an actuator Resource.
sensor	"oic.if.s"	RETRIEVE, NOTIFY	The sensor OCF Interface is used to read the Properties of a sensor Resource.

7.6.3.2.3 Use of UPDATE

Support for the UPDATE operation using the baseline OCF Interface should not be provided by a Resource Type. Where a Resource Type needs to support the ability to be UPDATED this should only be supported using one of the other OCF Interfaces defined in Table 8 that supports the UPDATE operation.

If a Resource Type is required to support UPDATE using the baseline OCF Interface, then all Properties of a Resource with the exception of Common Properties may be modified using an UPDATE request only if the Resource Type defines support for UPDATE using baseline in the applicable Open API 2.0 schema for the Resource Type. If the OCF Interfaces exposed by a

¹ The use of UPDATE with the baseline OCF Interface is not recommended, please see clause 7.6.3.2.3.

Resource in addition to the baseline OCF Interface do not support the UPDATE operation, then UPDATE using the baseline OCF Interface shall not be supported.

DRAFT