

**OCF 2.0 – nw Interface definition to allow read-only in a RETRIEVE – Core Technology WG
CR 2416**

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 © 2018 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 Interface methods

7.6.3.1 Overview

Interface methods shall not violate the defined RAML definitions for the Resources as defined in Annex D.

The OCF-defined Interfaces are listed in Table 8.

Table 8. OCF standard Interfaces

Interface	Name	Applicable Operations	Description
baseline	"oic.if.baseline"	RETRIEVE, NOTIFY, UPDATE	The baseline Interface defines a view into all Properties of a Resource including the Meta Properties. This Interface is used to operate on the full Representation of a Resource.
links list	"oic.if.ll"	RETRIEVE, NOTIFY	The 'links list' Interface provides a view into Links in a Collection (Resource). Since Links represent relationships to other Resources, the links list 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 Interface to allow discovery of Resource "hosted" on a Device.
batch	"oic.if.b"	RETRIEVE, NOTIFY, UPDATE	The batch 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 Interface exposes the Properties of a Resource that may be read. This 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 Interface exposes only those Properties that may be read from a Resource during a RETRIVE operation and only those Properties that may be written to a Resource during an UPDATE operation.
actuator	"oic.if.a"	RETRIEVE, NOTIFY, UPDATE	The actuator Interface is used to read or write the Properties of an actuator Resource.
sensor	"oic.if.s"	RETRIEVE, NOTIFY	The sensor Interface is used to read the Properties of a sensor Resource.

...

7.6.3.7 Read-only Interface

The read-only Interface exposes only the Properties that may be read. This includes Properties that may be read-only, read-write but not Properties that are write-only or set-only. The applicable operations that can be applied to a Resource are only RETRIEVE and NOTIFY. An attempt by a Client to apply a method other than RETRIEVE or NOTIFY to a Resource shall be rejected with an error response code.

7.6.3.8 Read-write Interface

The read-write Interface is a generic Interface to support reading and setting Properties in a Resource. The applicable methods that can be applied to a Resource are only RETRIEVE, NOTIFY, and UPDATE. For the RETRIEVE and NOTIFY operations, the behaviour is the same as for the oic.if.r Interface defined in 7.6.3.7. For the UPDATE operation, read-only Properties (i.e.

Properties tagged with `readOnly=True` in the RAML definition) shall not be in the UPDATE payload. An attempt by a Client to apply a method other than RETRIEVE, NOTIFY, or UPDATE to a Resource shall be rejected with an error response code.

DRAFT