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**Information technology — Open  
Connectivity Foundation (OCF)  
Specification —**

**Part 17:  
OCF resource to Zigbee cluster  
mapping specification**

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*Technologies de l'information — Specification de la Fondation pour la  
connectivité ouverte (Fondation OCF) —*

*Partie 17: Spécification du mapping entre ressources OCF et grappe  
Zigbee*

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## Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of document should be noted (see [www.iso.org/directives](http://www.iso.org/directives) or [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)) or the IEC list of patent declarations received (see [patents.iec.ch](http://patents.iec.ch)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html). In the IEC, see [www.iec.ch/understanding-standards](http://www.iec.ch/understanding-standards).

This document was prepared by the Open Connectivity Foundation (OCF) (as OCF Resource to Zigbee Cluster Mapping Specification, version 2.2.0) and drafted in accordance with its editorial rules. It was adopted, under the JTC 1 PAS procedure, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

A list of all parts in the ISO/IEC 30118 series can be found on the ISO and IEC websites.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html) and [www.iec.ch/national-committees](http://www.iec.ch/national-committees).

## Introduction

This document, and all the other parts associated with this document, were developed in response to worldwide demand for smart home focused Internet of Things (IoT) devices, such as appliances, door locks, security cameras, sensors, and actuators; these to be modelled and securely controlled, locally and remotely, over an IP network.

While some inter-device communication existed, no universal language had been developed for the IoT. Device makers instead had to choose between disparate frameworks, limiting their market share, or developing across multiple ecosystems, increasing their costs. The burden then falls on end users to determine whether the products they want are compatible with the ecosystem they bought into, or find ways to integrate their devices into their network, and try to solve interoperability issues on their own.

In addition to the smart home, IoT deployments in commercial environments are hampered by a lack of security. This issue can be avoided by having a secure IoT communication framework, which this standard solves.

The goal of these documents is then to connect the next 25 billion devices for the IoT, providing secure and reliable device discovery and connectivity across multiple OSs and platforms. There are multiple proposals and forums driving different approaches, but no single solution addresses the majority of key requirements. This document and the associated parts enable industry consolidation around a common, secure, interoperable approach.

ISO/IEC 30118 consists of eighteen parts, under the general title Information technology — Open Connectivity Foundation (OCF) Specification. The parts fall into logical groupings as described herein:

- Core framework
  - Part 1: Core Specification [ISO/IEC 30118-17:2021](https://standards.iteh.ai/catalog/standards/sist/56005101-7ad6-42bc-b46a-684a29f8f717/iso-iec-30118-17-2021)
  - Part 2: Security Specification <https://standards.iteh.ai/catalog/standards/sist/56005101-7ad6-42bc-b46a-684a29f8f717/iso-iec-30118-17-2021>
  - Part 13: Onboarding Tool Specification
- Bridging framework and bridges
  - Part 3: Bridging Specification
  - Part 6: Resource to Alljoyn Interface Mapping Specification
  - Part 8: OCF Resource to oneM2M Resource Mapping Specification
  - Part 14: OCF Resource to BLE Mapping Specification
  - Part 15: OCF Resource to EnOcean Mapping Specification
  - Part 16: OCF Resource to UPlus Mapping Specification
  - Part 17: OCF Resource to Zigbee Cluster Mapping Specification
  - Part 18: OCF Resource to Z-Wave Mapping Specification
- Resource and Device models
  - Part 4: Resource Type Specification
  - Part 5: Device Specification



- Core framework extensions
  - Part 7: Wi-Fi Easy Setup Specification
  - Part 9: Core Optional Specification
- OCF Cloud
  - Part 10: Cloud API for Cloud Services Specification
  - Part 11: Device to Cloud Services Specification
  - Part 12: Cloud Security Specification

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# Information technology — Open Connectivity Foundation (OCF) Specification —

## Part 17: OCF resource to Zigbee cluster mapping specification

### 1 Scope

This document provides detailed mapping information between Zigbee defined Clusters and OCF defined Resources.

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 30118-1 Information technology – Open Connectivity Foundation (OCF) Specification – Part 1: Core specification

<https://www.iso.org/standard/53238.html>

Latest version available at: [https://openconnectivity.org/specs/OCF\\_Core\\_Specification.pdf](https://openconnectivity.org/specs/OCF_Core_Specification.pdf)

ISO/IEC 30118-2 Information technology – Open Connectivity Foundation (OCF) Specification – Part 2: Security specification

<https://www.iso.org/standard/74239.html>

Latest version available at: [https://openconnectivity.org/specs/OCF\\_Security\\_Specification.pdf](https://openconnectivity.org/specs/OCF_Security_Specification.pdf)

ISO/IEC 30118-3 Information technology – Open Connectivity Foundation (OCF) Specification – Part 3: Bridging specification

<https://www.iso.org/standard/74240.html>

Latest version available at: [https://openconnectivity.org/specs/OCF\\_Bridging\\_Specification.pdf](https://openconnectivity.org/specs/OCF_Bridging_Specification.pdf)

ISO/IEC 30118-4 Information technology – Open Connectivity Foundation (OCF) Specification – Part 4: Resource type specification

<https://www.iso.org/standard/74241.html>

Latest version available at: [https://openconnectivity.org/specs/OCF\\_Resource\\_Type\\_Specification.pdf](https://openconnectivity.org/specs/OCF_Resource_Type_Specification.pdf)

ISO/IEC 30118-5 Information technology – Open Connectivity Foundation (OCF) Specification – Part 5: Smart home device specification

<https://www.iso.org/standard/74242.html>

Latest version available at: [https://openconnectivity.org/specs/OCF\\_Device\\_Specification.pdf](https://openconnectivity.org/specs/OCF_Device_Specification.pdf)

Derived Models for Interoperability between IoT Ecosystems, Stevens & Merriam, March 2016  
[https://www.iab.org/wp-content/IAB-uploads/2016/03/OCF-Derived-Models-for-Interoperability-Between-IoT-Ecosystems\\_v2-examples.pdf](https://www.iab.org/wp-content/IAB-uploads/2016/03/OCF-Derived-Models-for-Interoperability-Between-IoT-Ecosystems_v2-examples.pdf)

Zigbee, *Zigbee Specification*, August 2015

<http://www.zigbee.org/zigbee-for-developers/zigbee-3-0/>

Zigbee Cluster Library Specification, Version 1.0  
<http://www.zigbee.org/zigbee-for-developers/zigbee-3-0/>

ZigBee Lighting & Occupancy Device, Version 1.0  
<http://www.zigbee.org/zigbee-for-developers/zigbee-3-0/>

## 3 Terms, definitions symbols and abbreviations

### 3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 30118-1, ISO/IEC 30118-2, and ISO/IEC 30118-3 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

#### 3.1.1

##### **Zigbee Attribute**

data entity which represents a physical quantity or state within Zigbee.

#### 3.1.2

##### **Zigbee Cluster**

one or more *Zigbee Attributes* (3.1.1), commands, behaviours, and dependencies, which supports an independent utility or application function.

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#### 3.1.3

##### **Zigbee Server**

cluster interface which is listed in the input cluster list of the simple descriptor on an endpoint.

#### 3.1.4

##### **Zigbee 3.0 Server**

*Zigbee Server* (3.1.3) which is built on Zigbee 3.0 stack

#### 3.1.5

##### **Zigbee Client**

cluster interface which is listed in the output cluster list of the simple descriptor on an endpoint.

#### 3.1.6

##### **Zigbee 3.0 Client**

*Zigbee Client* (3.1.5) which is built on Zigbee 3.0 stack

#### 3.1.7

##### **Zigbee Device**

unique device identifier and a set of mandatory and optional clusters to be implemented on a single Zigbee endpoint.

#### 3.1.8

##### **Zigbee 3.0 Device**

*Zigbee Device* (3.1.7) which is built on Zigbee 3.0 stack

## 4 Document conventions and organization

### 4.1 Conventions

In this document a number of terms, conditions, mechanisms, sequences, parameters, events, states, or similar terms are printed with the first letter of each word in uppercase and the rest lowercase (e.g., Network Architecture). Any lowercase uses of these words have the normal technical English meaning.

In this document, to be consistent with the IETF usages for RESTful operations, the RESTful operation words CRUDN, CREATE, RETRIVE, UPDATE, DELETE, and NOTIFY will have all letters capitalized. Any lowercase uses of these words have the normal technical English meaning.

### 4.2 Notation

In this document, features are described as required, recommended, allowed or DEPRECATED as follows:

Required (or shall or mandatory).

These basic features shall be implemented to comply with the Mapping Specification. The phrases “shall not”, and “PROHIBITED” indicate behavior that is prohibited, i.e. that if performed means the implementation is not in compliance.

Recommended (or should).

These features add functionality supported by the Mapping Specification and should be implemented. Recommended features take advantage of the capabilities the Mapping Specification, usually without imposing major increase of complexity. Notice that for compliance testing, if a recommended feature is implemented it shall meet the specified requirements to be in compliance with these guidelines. Some recommended features could become requirements in the future. The phrase “should not” indicates behavior that is permitted but not recommended.

Allowed (or allowed).

These features are neither required nor recommended by the Mapping Specification, but if the feature is implemented, it shall meet the specified requirements to be in compliance with these guidelines.

Conditionally allowed (CA)

The definition or behaviour depends on a condition. If the specified condition is met, then the definition or behaviour is allowed, otherwise it is not allowed.

Conditionally required (CR)

The definition or behaviour depends on a condition. If the specified condition is met, then the definition or behaviour is required. Otherwise the definition or behaviour is allowed as default unless specifically defined as not allowed.

DEPRECATED

Although these features are still described in this document, they should not be implemented except for backward compatibility. The occurrence of a deprecated feature during operation of an implementation compliant with the current document has no effect on the implementation's operation and does not produce any error conditions. Backward compatibility may require that a feature is implemented and functions as specified but it shall never be used by implementations compliant with this document.

Strings that are to be taken literally are enclosed in “double quotes”.

Words that are emphasized are printed in *italic*.

## 5 Theory of operation

### 5.1 Interworking approach

The interworking between ZigBee Clusters and OCF defined Resources is modelled using the derived model syntax described in Derived Models for Interoperability between IoT Ecosystems.

### 5.2 Mapping syntax

#### 5.2.1 Introduction

Within the defined syntax for derived modelling used by this document there are two blocks that define the actual Property-Property equivalence or mapping. These blocks are identified by the keywords "x-to-ocf" and "x-from-ocf". Derived Models for Interoperability between IoT Ecosystems does not define a rigid syntax for these blocks; they are free form string arrays that contain pseudo-coded mapping logic.

Within this document we apply the rules in defined in clause 5.2 to these blocks to ensure consistency and re-usability and extensibility of the mapping logic that is defined.

#### 5.2.2 General

All statements are terminated with a carriage return.

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#### 5.2.3 Value assignment

The equals sign (=) is used to assign one value to another. The assignee is on the left of the operator; the value being assigned on the right.

#### 5.2.4 Property naming

All Property names are identical to the name used by the original model; for example, from the OCF Temperature Resource the Property name "temperature" is used whereas when referred to the derived ecosystem then the semantically equivalent Property name is used.

The name of the OCF defined Property is prepended by the ecosystem designator "ocf" to avoid ambiguity (e.g. "ocf.step")

#### 5.2.5 Range

The range on the OCF side is fixed.

#### 5.2.6 Arrays

An array element is indicated by the use of square brackets "[]" with the index of the element contained therein, e.g. range [1]. All arrays start at an index of 0.

### 5.2.7 Default mapping

There are cases where the specified mapping is not possible as one or more of the Properties being mapped is optional in the source model. In all such instances a default mapping is provided. (e.g. "transitiontime = 1")

### 5.2.8 Conditional mapping

When a mapping is dependent on the meeting of other conditions then the syntax:

If "condition", then "mapping".

is applied.

E.g. if onoff = false, then ocf.value = false

### 5.2.9 Method invocation

The invocation of a command from the derived ecosystem as part of the mapping from an OCF Resource is indicated by the use of a double colon "::" delimiter between the applicable resource, service, interface or other construct identifier and the command name. The command name always includes trailing parentheses which would include any parameters should they be passed.

For example, when dealing with the "on()" command for Zigbee On/off Cluster this gives a complete command invocation as: "zb.command.onoff::on()".

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## 6 Zigbee translation

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### 6.1 Operational scenarios

<https://standards.iteh.ai/catalog/standards/sist/56005101-7ad6-42bc-b46a-684a29f8f717/iso-iec-30118-17-2021>

The overall goal is to make Bridged Zigbee 3.0 Servers appear to OCF Clients as if they were native OCF Servers in the local network or cloud environment

The mapping between the OCF data models and Zigbee Clusters is specified in 9. Programmatic (i.e. On-the-fly) data model translation is not supported.

Figure 1 shows an overview of a Zigbee 3.0 Bridge Platform and its general topology. It exposes Zigbee 3.0 Servers to OCF Clients. Each Bridged Zigbee 3.0 Server is represented as a Virtual OCF Server. The Zigbee 3.0 Bridging Function supports Asymmetric bridging. The scope of this document is the asymmetric bridging to expose the Zigbee Server to OCF. The asymmetric bridging to expose an OCF Server to a Zigbee Client is out of scope.

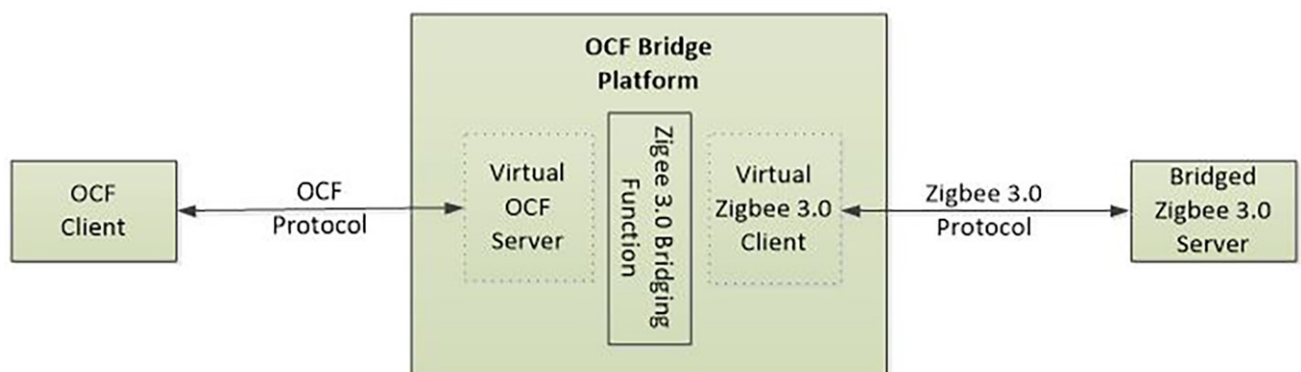


Figure 1 – OCF Zigbee Bridge Platform and Components