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

**Part 1:
Core specification**

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

Partie 1: Spécification du cœur

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This document was prepared by the Open Connectivity Foundation (OCF) (as the OCF Core Specification v1.0.0) 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*.

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1 Scope

The OCF specifications are divided into two sets of documents:

- Core Specification documents: The Core Specification documents specify the Framework, i.e., the OCF core architecture, interfaces, protocols and services to enable OCF profiles implementation for Internet of Things (IoT) usages and ecosystems.
- Vertical Profiles Specification documents: The Vertical Profiles Specification documents specify the OCF profiles to enable IoT usages for different market segments such as smart home, industrial, healthcare, and automotive. The Application Profiles Specification is built upon the interfaces and network security of the OCF core architecture defined in the Core Specification.

This document is the OCF Core specification which specifies the Framework and core architecture.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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OpenAPI specification, *fka Swagger RESTful API Documentation Specification*
<https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md>

OCF Resource Type Definitions, *API Definition Language for OCF Resource Type Definitions*,
Release OCF-v1.0.0
<https://github.com/openconnectivityfoundation/core>

W3C XML character escaping, *Extensible Markup Language (XML) 1.0*, November 2008
<http://www.w3.org/TR/2008/REC-xml-20081126/#syntax>

3 Terms, definitions, symbols and abbreviations

3.1 Terms and definitions

3.1.1

Client

a logical entity that accesses a Resource on a Server

3.1.2

Collection

a Resource that contains zero or more Links

3.1.3

Configuration Source

a cloud or service network or a local read-only file which contains and provides configuration related information to the Devices

3.1.4

Core Resources

those Resources that are defined in this specification

3.1.5

Default Interface

an Interface used to generate the response when an Interface is omitted in a request

3.1.6

Device

a logical entity that assumes one or more Roles (e.g., Client, Server)

Note 1 to entry: More than one Device can exist on a physical platform.

3.1.7

Device Type

a uniquely named definition indicating a minimum set of Resource Types that a Device supports

Note 1 to entry: A Device Type provides a hint about what the Device is, such as a light or a fan, for use during Resource discovery.

3.1.8

Endpoint

the source or destination of a request and response messages for a given Transport Protocol Suite

Note 1 to entry: Example of a Transport Protocol Suite would be CoAP over UDP over IPv6.

3.1.9

Entity

an aspect of the physical world that is exposed through a Device

Note 1 to entry: Example of an entity is an LED.