



OPEN CONNECTIVITY
FOUNDATION®

Overview – CTT & OCMS





Overview

- OCF's Certification Work Group oversees the OCF Certification Program
- Several documents are written / maintained to support this:
 - Certification Test Requirements (CTR) document (essentially the 'test spec')
 - Certification Procedure Requirements (CPR) document (the 'process' of certifying)
 - Certification Requirements Status List (CRSL) (which tests must pass to get certified)
- Certification utilizes two major OCF-maintained tools*
 - Conformance Test Tool (CTT) – performs all the identified tests in the CTR
 - OCF Certification Management System (OCMS) – website submission and tracking

* Access to the OCMS and CTT are restricted to OCF Member Company representatives.



Testing with the CTT

- The CTT is a Windows-based application able to validate a Platform's implementation is conformant to the OCF Specifications
- In order to properly test a Platform, the CTT requires a configuration file generated by the OCMS
 - Indicates what features are implemented
 - Defines what role(s) the Platform is implementing
 - Provides additional testing information for features that require user interaction



Creating a Platform in the OCMS

- <https://cms.openconnectivity.org>
- Log in or create an account (OCF Members only)
 - Click “Create OCF Product”
 - Fill out applicable / required information
 - Of particular note for ‘testing’:
 - IP Version: IPv6 Only or IPv4/6
 - Physical interface: WiFi / Wired Ethernet
 - IoTivity Version: 1.3.1
 - What Data Model Version (for all OCF 1.3 Products):
 - » Spec Version: ocf.1.3.1
 - » Vertical: ocf.sh.1.3.0
 - » Resource Type: ocf.res.1.3.0
 - » Content Format: 1.0.0
 - » Accept Version: 1.0.0
 - WiFi Easy Setup: unchecked
 - Does your product ship to an area which does not allow remote power off: unchecked
 - CRSL: CRSL 4.3
 - Exemptions: Leave unchecked



Creating a Platform in the OCMS

- Click “Add new PICS”
 - **Name:** each PICS must be named
 - **OCF Role:** **Client** or **Server** (if you are doing both; you need two PICS; one for each)
 - **Type of Client** (if applicable):
 - **Generic** (works with all devices)
 - **Targeted** (works with a limited selection of devices)
 - **Does your Client support bridges** (if applicable): For this event, leave as ‘No’
 - **Optional Core Resource Types:** For this event; leave all **unchecked**
 - **Is your Device’s oic/res observable:** IoTivity default is no; leave **unchecked**
 - **Device supports multi-value query parameters:** IoTivity default is no; leave **unchecked**
 - **Is the “deviceuuid” Property of /oic/sec/doxm persistent:** IoTivity default is no; leave **unchecked**
 - **Device supports canceling of ‘observe’ requests** (Client-role only): IoTivity default is no; leave **unchecked**
 - **Optional Security Virtual Resources:** For this event; leave all **unchecked**
 - **Ownership Transfer Methods:** check **Just Works**
 - **Supported Credential Types:** check **Symmetric pair-wise key**
 - **Resource Directory:** For this event, leave as ‘No’



Creating a Platform in the OCMS

- OCF Device Types:
 - For Servers: check any 1 (one) Device for a PICS. If you implement multiple Devices on a single platform, create multiple PICS
 - For Clients with a type of Targeted: Check all the Device Types you can control
 - For Clients with a type of Generic: The OCMS automatically selects the required Device Types to test
- Vertical Resource Types:
 - For Servers: The mandatory resources are pre-selected, you can select any optional Resources that have been implemented
 - For Clients: The Resource Types are not applicable
- Click “Create PICS”
- Create any needed additional PICS for your Platform
- Click “Save” to create the Platform
- The CTT Configuration Files (PICS) are then listed at the top of the page