



**OPEN**

Compute Project

Proposed Charter  
For  
Compliance & Interoperability

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## 1 Revision History

Date	Name	Description
12-05-2012	Eric M. Wells	Original draft based on initial OCP C&I planning discussions.

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## 3 Overview

The OCP Compliance & Interoperability project (C&I) will establish a framework that enables a transparent approach for qualifying solutions to become OCP branded. It will allow providers to leverage a common set of tools and processes to deliver solutions that meet OCP defined guidelines and expectations and consumers the assurance that OCP branded solutions meet those expectations. In addition it positions OCP C&I as a base certification layer that can be leveraged by communities & technologies beyond OCP.

Key C&I project elements include:

- A minimum of two certification levels including 'Certified' and 'Ready' to accommodate different vendor and consumer requirements.
- Utilization of a building block approach, starting at the physical layer, to establish and evolve the certification process
- Establishment of multiple labs to ensure diversity and capacity for certification
- Engagement with the larger community including solidifying and growing partnerships with universities
- Open source-based testing tools and certification processes will be made available to the community
- C&I, specifically the "Certified" level will become a potential funding source for the OCP Foundation

### 3.1 License

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<http://www.openwebfoundation.org/legal/the-owf-1-0-agreements/owfa-1-0>

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## 4 Mission Statement

Create a transparent and scalable approach that ensures solutions meet minimum OCP standards for compliance and interoperability and are branded as such.

## 5 Guidelines

By establishing the OCP branded classifications of *Ready* and *Certified* and requiring that OCP branded solutions are compliant, C&I will provide:

- Specification standards and checklists
- Building block and interoperability testing

### 5.1 Specification Standards and Checklists

- Project chairs for each technology working group are accountable for ensuring that the specifications can pass a set of predefined checklists
- Specifications need to be tuned for the key elements of the technology at hand
- There is an active, iterative process for each working group
- Specifications are well written with an active feedback loop from the incubation committee to ensure they adhere to the predefined checklists

There will be a minimum of two certification levels with two distinct trademarks:

- OCP Certified
- OCP Ready

#### 5.1.1 OCP Certified

- This is a checklist that OCP-approved *independent labs* can perform using a certification approach as well as hardware and software tools governed by OCP
- Includes engineering resources dedicated to a functional team governed by C&I
- More rigorous path than OCP Ready certification but brings with it additional benefits
- Output from the lab is to execute letters of compliance
- This stage will formalize the process involving the branding and marketing teams from the respective solution providers
- The OCP foundation will provide marketing/branding guidelines for providers
- This is considered a level 2 certification stage

#### 5.1.2 OCP Ready

- This is a checklist that the *provider* performs using a certification suite governed by OCP
- This stage will formalize the process involving the branding and marketing teams from the respective solution providers
- The OCP foundation will provide appropriate branding guidelines for providers
- This is considered a level 1 certification stage

## 5.2 Building Block and Interoperability Testing

These are the two elements of certification testing in this stage:

- *Functional testing* of each building block for the specific product at hand
- *Interoperability testing* to ensure that the building blocks work with multiple components; interoperability is the high order bit

Building blocks will be used to establish a logical approach to enabling and expanding the capabilities.

Initial building blocks include:

- Physical devices
  - Space
  - Power
  - Cooling
- Hardware management
  - In conjunction with the OCP Hardware Management project:  
[https://github.com/facebook/opencompute/tree/master/HW\\_management](https://github.com/facebook/opencompute/tree/master/HW_management)
  - Test harness to validate that all hardware-defined management commands return expected output

Future building blocks could include but are not limited to:

- Performance optimization
- Formal O/S certification
- Specific application certification

## 6 Governance and Community Organization

### 6.1 C&I Structure

- Executive Committee
  - Accountable to the OCP board
  - Small groups made up of OCP COO, providers and consumers
  - # of members is TBD.
- Technical Advisory Board
- Project Teams
  - Physical Server Certification. Scope of project team is ...
  - Hardware Management Certification. Scope of project team is ...
  - Software Tools. Scope of project team is ...
  - Branding & Marketing. Scope of project team is ...
  - Community Engagement, including University Outreach