Microsoft Makes it Easy to Develop Connected Devices

Microsoft Azure

Azure IoT services
Azure Machine Learning | HDInsight | Power BI

Interoperate with connected devices
Get started quickly
Understand how your devices work
Make them safe and secure
IOT can transform our lives

- Smart Health
- Smart City
- Smart Industrials
- Smart Transportation & Auto
- Smart Home
But IoT things generally don’t work together...
The Answer to Fragmentation is OCF

“If the devices don’t speak the same language, they can’t talk”  
Feb 19, 2016

“Fragmentation is the enemy of the internet of things”  
Feb 19, 2016

“It’s an ambitious goal for the group, which was announced just last week, but it may be possible given the OCF’s impressive list of members. Intel, Qualcomm, Microsoft, Samsung, GE and Cisco are among the initial members.”  
Feb 22, 2016
OCF Vision

Deliver an IoT connectivity standard that is...

- Open
- Free
- Seamless
- Technology Agnostic
- Fair & Accessible
- Cross Industry
- More Secure
- Structured
The OCF Approach

**Specification**
Defines OCF framework including standard model for IoT devices, apps & services to interact

**IoTivity Open Source**
Delivers reference implementation of OCF framework & translation layers for non-OCF devices

**Certification**
Ensures interoperability via compliance and interop testing

Stop fragmentation and increase device orchestration by creating a common standard for IoT device connectivity

Ease developer burden through open source code availability and royalty-free license*

Ensure interoperability through a formal testing and certification program

* Royalty-free license

7
OCF’s role for IOT Solutions

**Data Models**
- Consumer
- Enterprise
- Industrial
- Auto
- Education
- Health

**Core Framework**
- Resource Model
  - Discovery
  - Data Transmission
  - Data Management
  - Device Management
  - Security, Identity & Permissions

**Transports**
- Bluetooth
- WiFi Direct
- WiFi
- LTE
- Remote Access
- Cloud
- ZigBee

(Smart)
# About the OCF Organization

<table>
<thead>
<tr>
<th>Board of Directors</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operations Management Steering Committee</strong></td>
</tr>
<tr>
<td>• Governance and Process</td>
</tr>
<tr>
<td>• Project review</td>
</tr>
<tr>
<td>• Coordination</td>
</tr>
<tr>
<td><strong>Business Steering Committee</strong></td>
</tr>
<tr>
<td>• Marketing WG</td>
</tr>
<tr>
<td>• Strategy WG</td>
</tr>
<tr>
<td>• Membership WG</td>
</tr>
<tr>
<td><strong>Technology Steering Committee</strong></td>
</tr>
<tr>
<td>• Security WG</td>
</tr>
<tr>
<td>• Core Technology WG</td>
</tr>
<tr>
<td>• Open Source WG</td>
</tr>
<tr>
<td><strong>Certification Working Group</strong></td>
</tr>
<tr>
<td>• Test tools, spec</td>
</tr>
<tr>
<td>• Lab mgmt</td>
</tr>
<tr>
<td>• Cert web site</td>
</tr>
</tbody>
</table>
It has been a rapid and successful journey for the organization.
Huge Growth Ahead – Be a part of it

70% of value enabled by IoT will come from B2B scenarios

- McKinsey & Company

25 billion
Connected “things” by 2020

- Gartner

$1.7 trillion
Market Segment for IoT by 2020

- IDC
Call to Action...

Join
www.openconnectivity.org

Engage

Build

OCF hosting the November members meeting (8-11 Nov) in Taipei!
Thank you!