

# Welcome to IoTivity

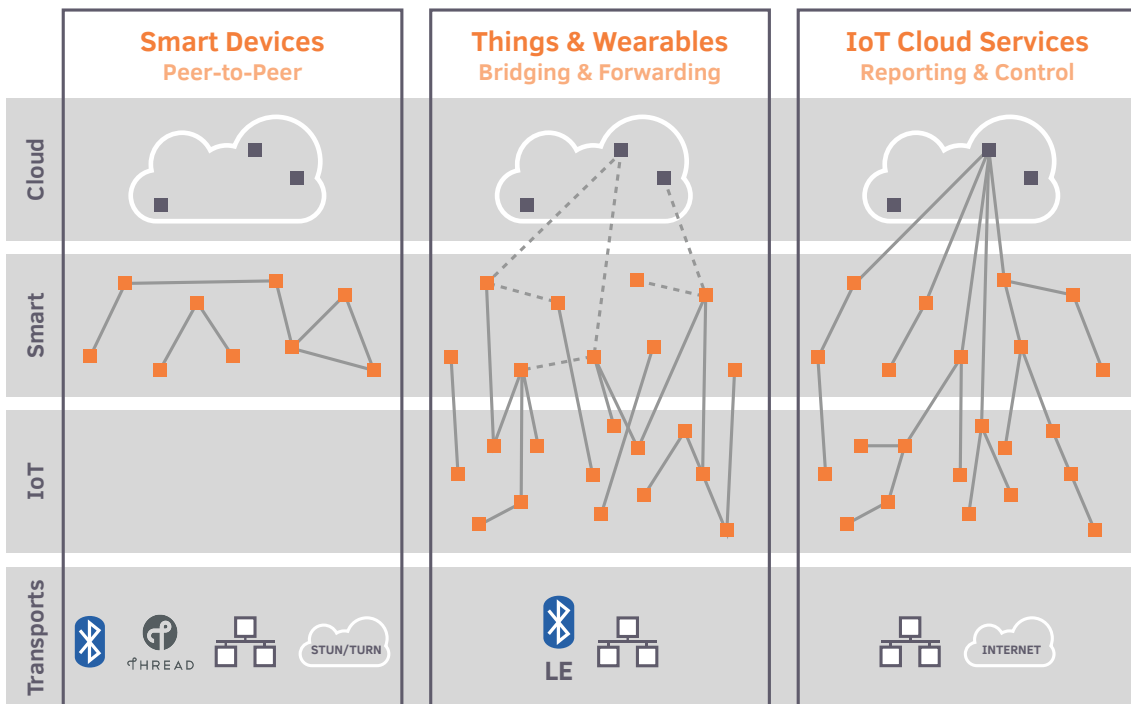
A communications framework for the Internet of Things sponsored by the **Open Connectivity Foundation (OCF)** and hosted by the Linux Foundation.

## Cloud-Native Architecture

## and the Internet of Things

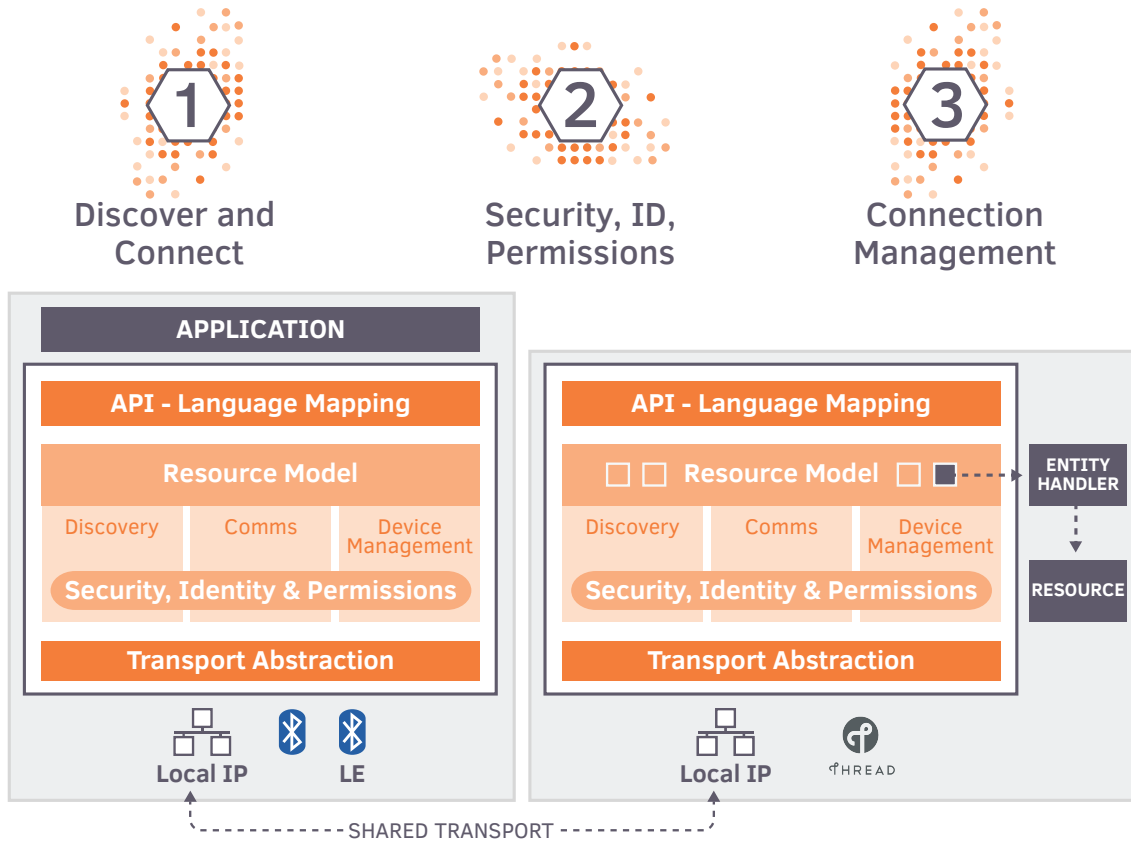
OCF is the industry's only cloud-native architecture for IoT documented in a formal specification that can be implemented virtually any way a developer chooses.

Cloud-native applications are composed of dozens of micro-services, each expressed as a RESTful API, whose provisioning code is in a software container, and whose lifetime is limited to the interaction with a single client. This technical implementation allows massive scalability from the outset.



Learn more at [IoTivity.org](https://www.iotivity.org)

## A communications framework for the Internet of Things using a flexible and scalable resource model



1. Discovery: Common method for device discovery (IETF CoRE)
2. Messaging: Constrained device support as default (IETF CoAP) as well as protocol translation via intermediaries
3. Common Resource Model: Real world entities defined as data models (resources)
4. CRUDN: Simple Request/Response mechanism with Create, Retrieve, Update, Delete and Notify commands
5. Device Management: Network connection settings and remote monitoring/ reset/reboot functions
6. ID & Addressing: OCF IDs and addressing for OCF entities (Devices, Clients, Servers, Resources)
7. Security: Basic security for network, access control based on resources, key management, etc.