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

1. **Discover and Connect**
   - **Disco**very and **Connect**

2. **Security, ID, Permissions**
   - **Securit**y, **ID**, and **Permissio**ns

3. **Connection Management**
   - Connection **Management**

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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.

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