

# A use case & architecture

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# A use case (House calls by caregivers)

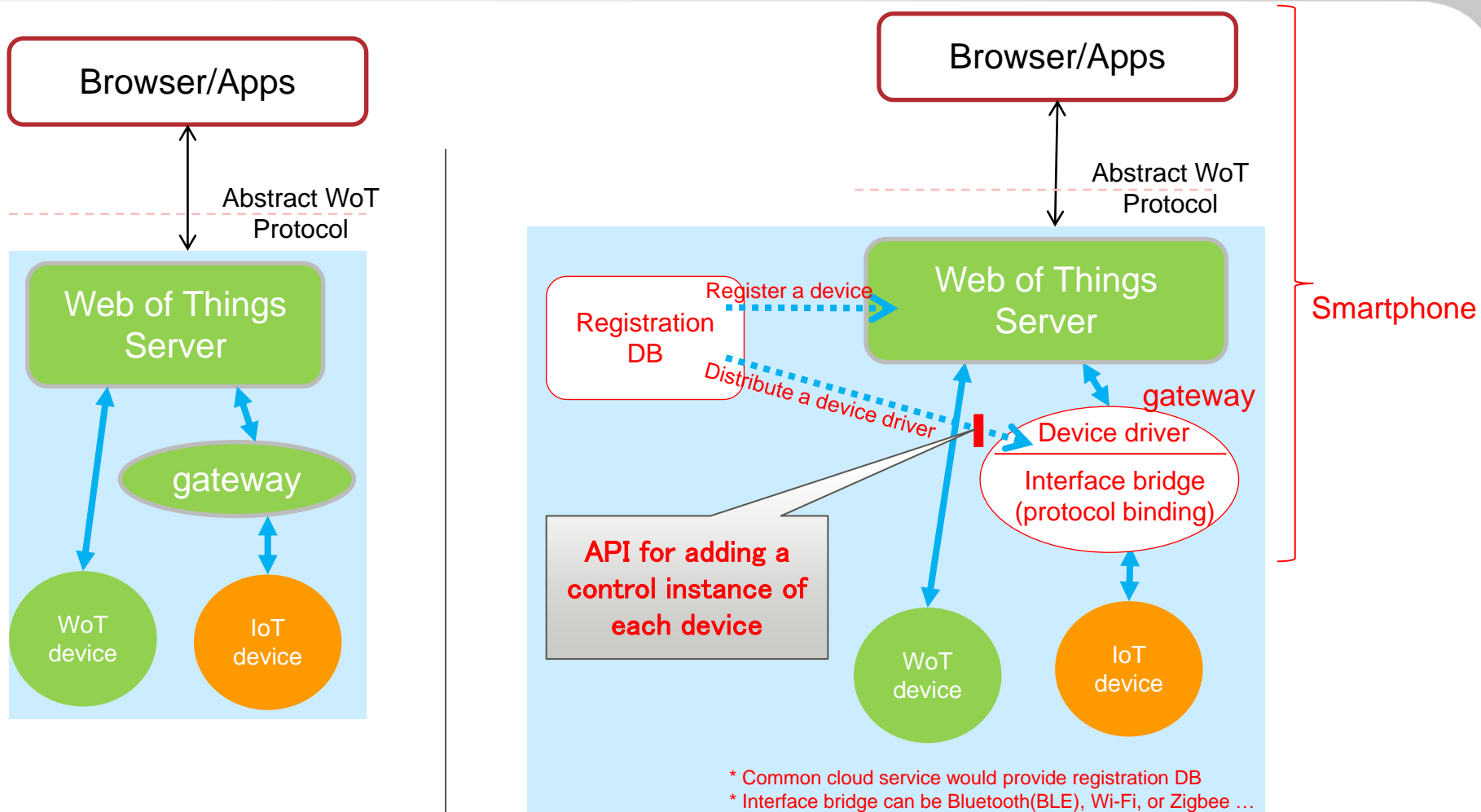
## Description:

- A caregiver easily operate peripheral devices at a patient's home and connect to back-end reporting services. For example, measurement results captured by measuring devices in the patient's home that previously were manually input into smartphones can be automatically organized into a logbook or other document.

## Usage scenario:

- **Caregiver:** Ask to use some patient's medical equipment for measuring patient's physical condition.
- **Patient:** Lend these equipment to caregiver by delegating these equipment.
- **Caregiver:** Caregiver's smartphone discover some equipment and receive the device driver for controlling. Using these equipment, caregiver can make a logbook automatically.
- **Caregiver:** After measuring, caregiver disconnect these equipment, then put the control back to the patient.

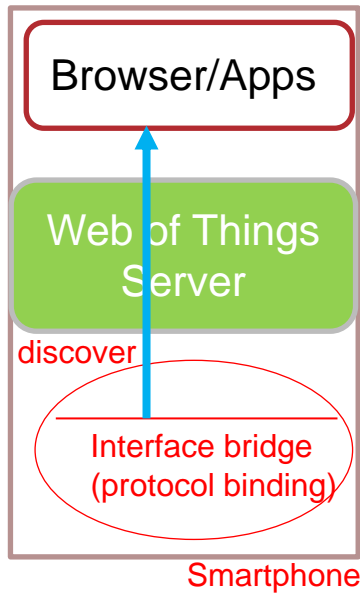
# An architecture



- ✓ Gateway consists of interface bridge and device driver parts.
- ✓ API for adding a device driver would be necessary.
- ✓ A device driver is a instance for controlling a IoT device and binding between the abstract WoT protocol provided by WoT server and IoT protocol.

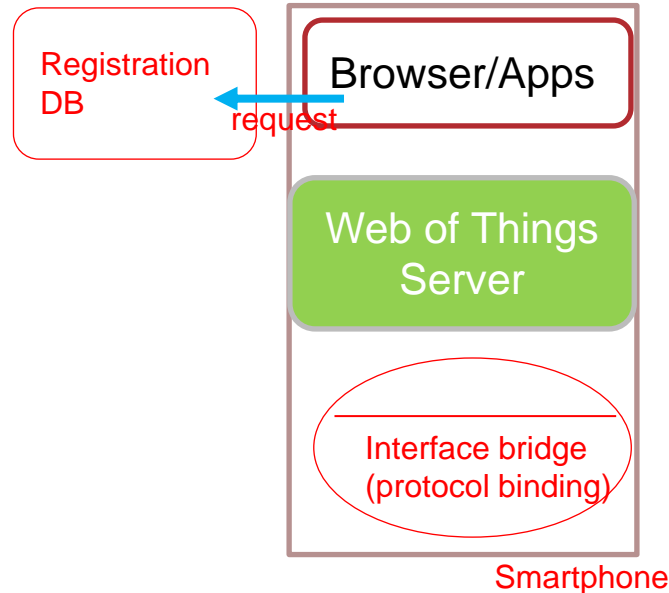
## Step 1

Browser on smartphone discover a IoT device



## Step 2

Browser request to adding the IoT device to WoT server



## Step 3

Register the IoT device to device list in WoT server and distribute the device driver and expose the API.

