

type 为数据格式的识别符，定义为“zigbee”或二次开发应用的识别符。当 type 为“zigbee”时，用于表示 zigbee 报文的上传与下发。二次开发应用不能使用“zigbee”作为识别符

- ```
{
 "type": "zigbee",
 "data": {
 "eui64": 5149013401532256,
 "addr": 15,
 "message": "DwAgsAAPAAccIwAAH8AAAAAAAAAG1vAG8AAcEhAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAmWg==",
 "time": "2016-02-12T02:29:32.450819869+08:00"
 }
}
```

- ```
{
  "type": "your_app_name",
  "data": {
    ...
  }
}
```

- ```
{
 "type": "zigbee",
 "name": "zigbee",
 "url": "http://www.zigbee.org",
 "description": "Zigbee is a low-power, low-data-rate, wireless communication protocol that is designed for use in low-power, low-data-rate, wireless communication systems. It is a member of the IEEE 802.15.4 standard and is used in a variety of applications, including home automation, industrial control, and healthcare. Zigbee is a low-power, low-data-rate, wireless communication protocol that is designed for use in low-power, low-data-rate, wireless communication systems. It is a member of the IEEE 802.15.4 standard and is used in a variety of applications, including home automation, industrial control, and healthcare.
```

```

 "data": {
 "eui64": 5149013401532256,
 "addr": 15,
 "message": "DwAgsAAPAACcIwAAAH8AAAAAAG1vAG8ACEhAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAmWg==",
 "time": "2016-02-12T02:29:32.450819869+08:00"
 }
 }
}

```

二次开发应用 -> Redis 队列 -> hetu-core -> 远程服务器 (HTTP 服务)

- Redis 队列主题为“hetu-core”
- \*\*type\*\*不能是“zigbee”，为二次开发应用的识别符
- 通过 POST 方法上报给 HTTP 服务器
- **Redis 队列报文示例如下图**

```
{
 "type": "xxx",
 "data": {
 "eui64": 5149013401532256,
 "message": "DwAgsAAPACcIwAAAH8AAAAAAAAAG1vAG8ACEhAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAmWg=="
 }
}
```

## MQTT 下发

远程服务器 -> MQTT 服务器 -> hetu-core -> Zigbee 设备

- MQTT 主题为 `/hetu/${MAC}/command`
- 报文中的 type 为 `zigbee`
- `hetu-core` 会把报文中的 data 转发给 `zigbee` 设备
- 报文示例如下

```
{
 "type": "zigbee",
 "data": {}
}
```

远程服务器 -> MQTT 服务器 -> hetu-core -> Redis 队列 -> 二次开发应用

- MQTT 主题为 `/hetu/${MAC}/command`
- `**type` 不能是 “zigbee”，为二次开发应用的识别符
- 将报文中的 `type` 作为 redis 队列的主题
- `hetu-core` 会根据报文中的 `type` 把 `data` 转发给 `redis` 队列
- 报文示例如下

```
{
 "type": "your_app_name",
 "data": {}
}
```

## HTTP 下发

远程服务器 -> hetu-core -> Zigbee 设备

- API 示例 : `http://192.168.0.101/hetu/**command**`
- 报文中的 type 为 zigbee
- hetu-core 会把报文中的 data 转发给 zigbee 设备
- 报文示例如下

```
{
 "type": "zigbee",
 "data": {}
}
```

远程服务器 -> hetu-core -> Redis 队列 -> 二次开发应用

- API 示例: `http://192.168.0.101/hetu/**command**`
- hetu-core 会根据报文中的 topic 把报文中的 data 转发给 Redis 队列
- 报文示例如下

```
{
 "type": "your_app_name",
 "data": {}
}
```