

Connecting People and Home

—MIoT Platform introduction





MIOT PLATFORM

Connecting people & home



The Largest IOT platform worldwide

Connected devices in MIoT Platform

1.32亿

Total number of connected smart hardwares

2000+

Countries and regions covered

Until 2018.09.30



Active devices

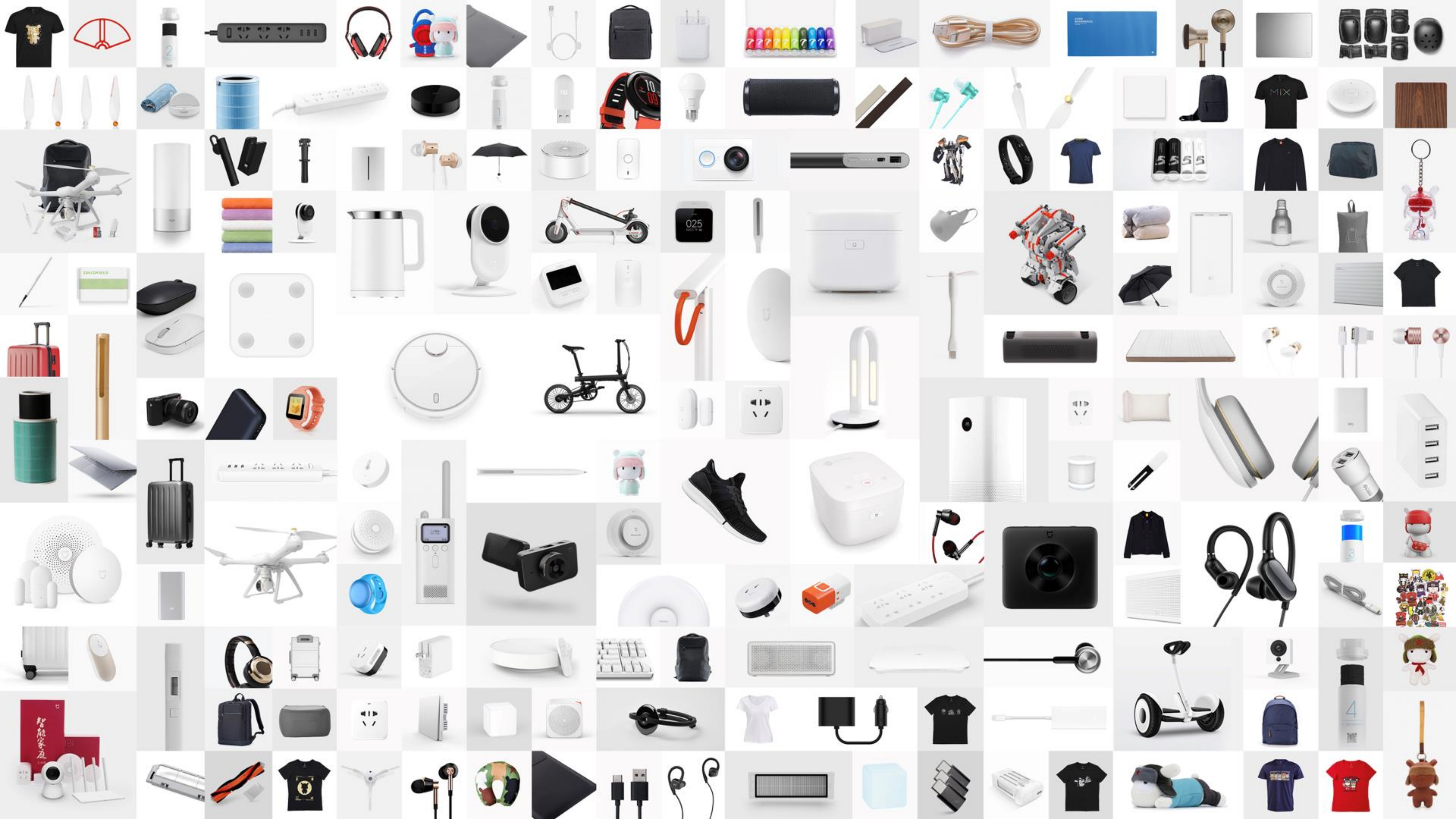
Daily active devices over

20 Million

Device Request per Day

80 Billion

Until 2018.09.30



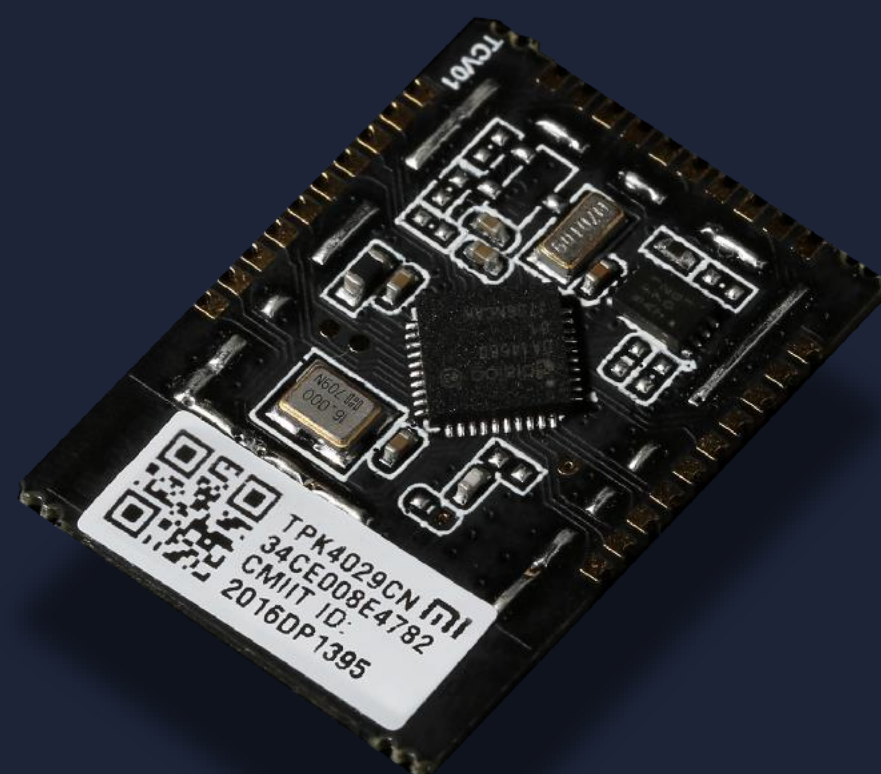
MIOT Capability Introduction



MIoT Platform Strategy
Smart Phone & Smart Speaker Centric
Smart devices



WiFi Module
2014



BLE Module
2015



WiFi+BLE dual-module
2016



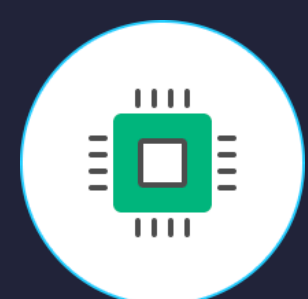
Security Chipset
2017



NB-IoT Module
2018



Various Connections for smart devices



RTOS



Android



Linux

Standard Mi smart module

Rich SDK/API

MIoT standards

Normative Hardware test & Certification

Wi-Fi



Bluetooth



ZigBee



2-4G



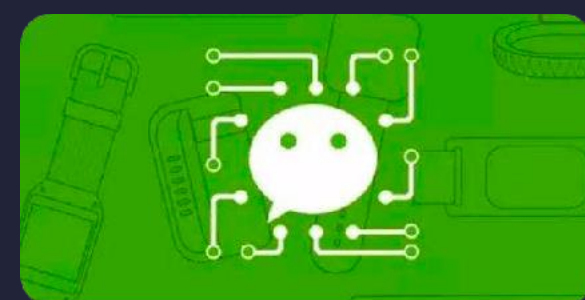
NB-IoT



Multiple Access or Control of IOT device



小爱同学



WeChat mini-app



Mi Home APP



iOS Widget



TV



Developer SDK

Xiaoai tongxue” Smart voice control

Device Status Query

Device Control

Trigger joint Scenarios

Continuous Update





Video

One Word, Done!

Xiaomitongxue, good night (trigger night mode)

xiaomitongxue, switch on the bedroom light

xiaomitongxue, what is air condition at home?

“xiaomitongxue, _____”

Xiaomitongxue, get iRobot on work

Xiaomitongxue, turn air conditioner to 25°C

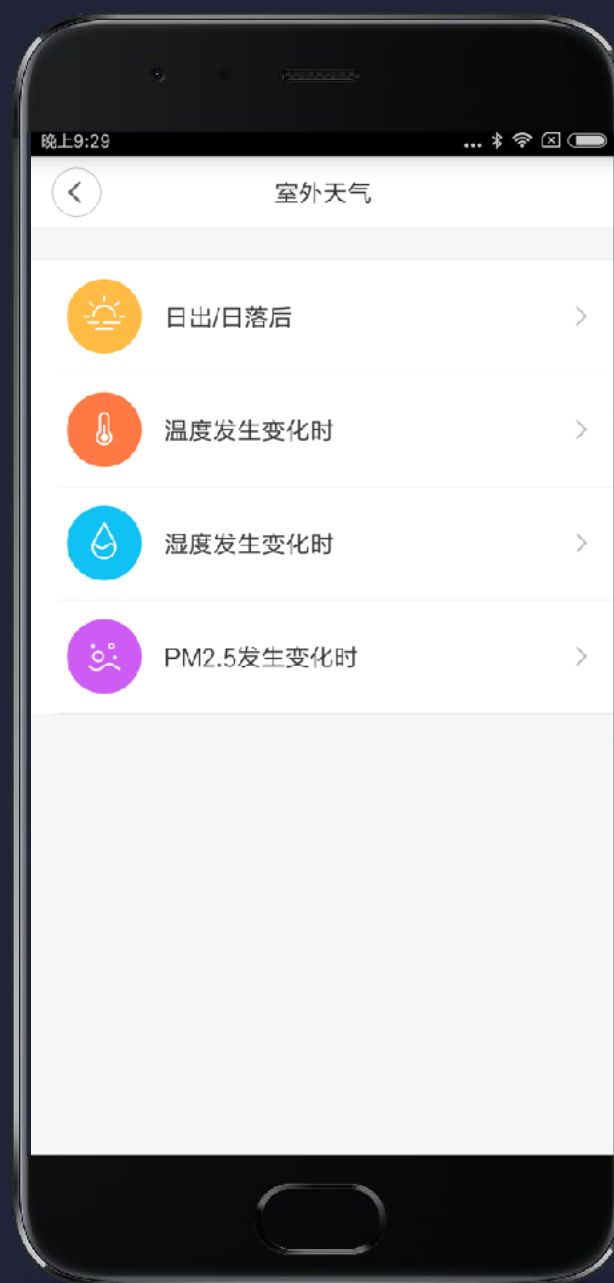
Xiaomitongxue, what is the temperature?

MIoT – Smart Scenario

After connecting to xiaomi devices, share the joint scenario with xiaomi devices



Self-defined devices
combined operation



Multi-mension living scenario



Personallized smart
recommendation

Rich Trigger Conditions

Human body Sensor

Voice Arouse

Light Sensor

Timing

GPS Range

Hygrothermograph

Door Lock

Door Magnetic

Wireless Switch

Water Sensor

Gas/Smog/PM2.5

Soil

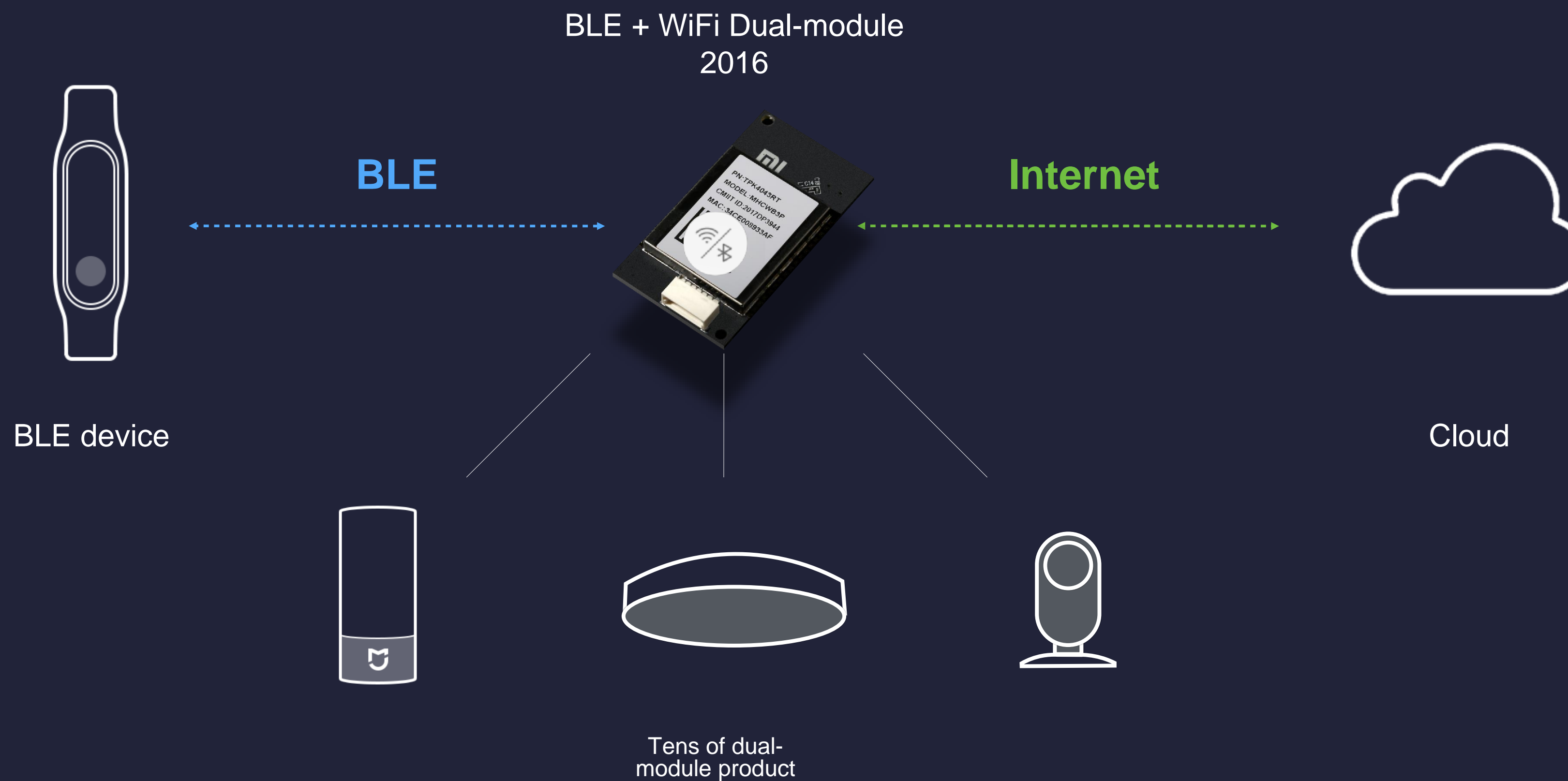
BlueTooth Mesh

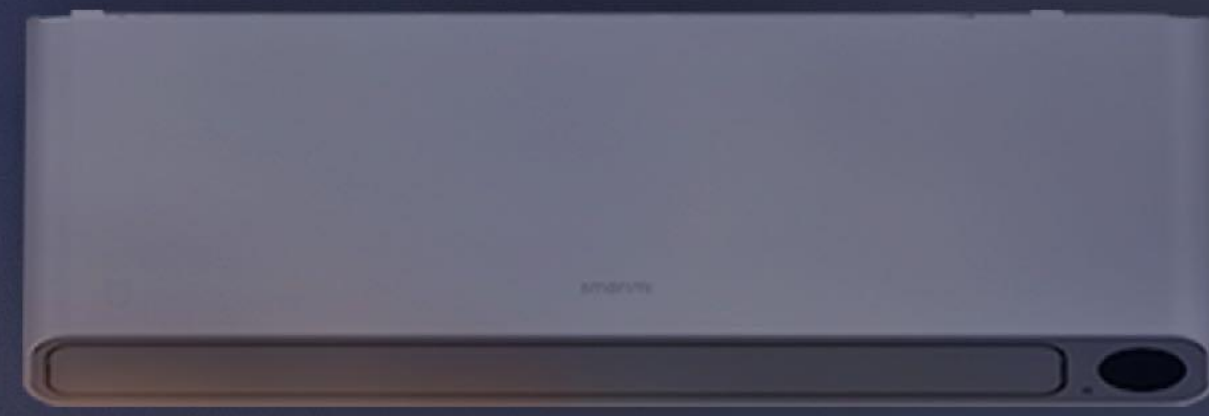


Traditional BlueTooth solution



BlueTooth Mesh





BlueTooth Mesh Scenarios

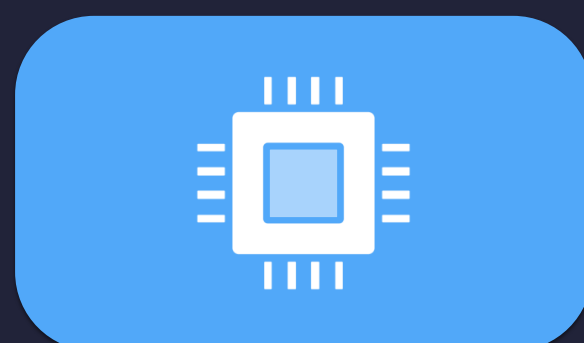
- 1、 Devices require Low power consumption & remote control
- 2、 Data Sync suffer from high cost of operation
- 3、 Intelligence with low cost



Continuously lower access barrier for smart device

Continuously Raise user experience for smart device

Whole System Platform Capability Sharing



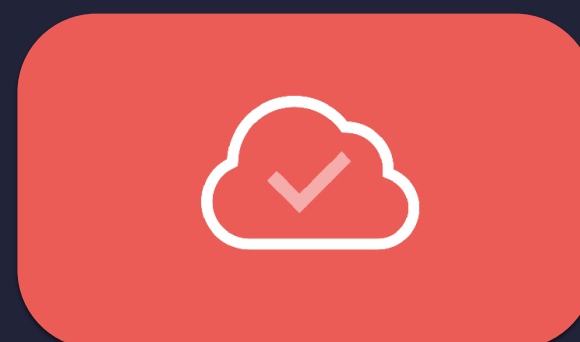
Open Access



Open Control



Smart Scenarios



Cloud+AI+Data

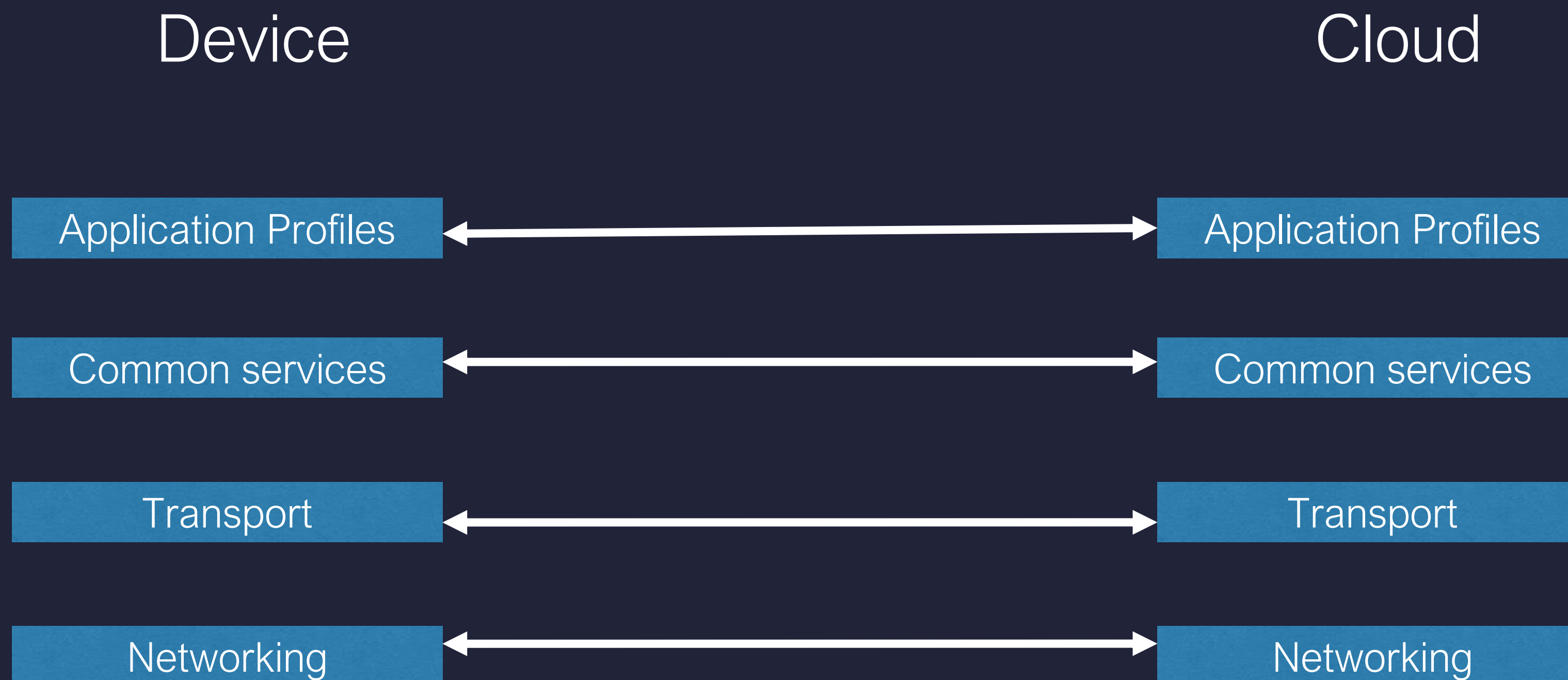


New Retail Channel

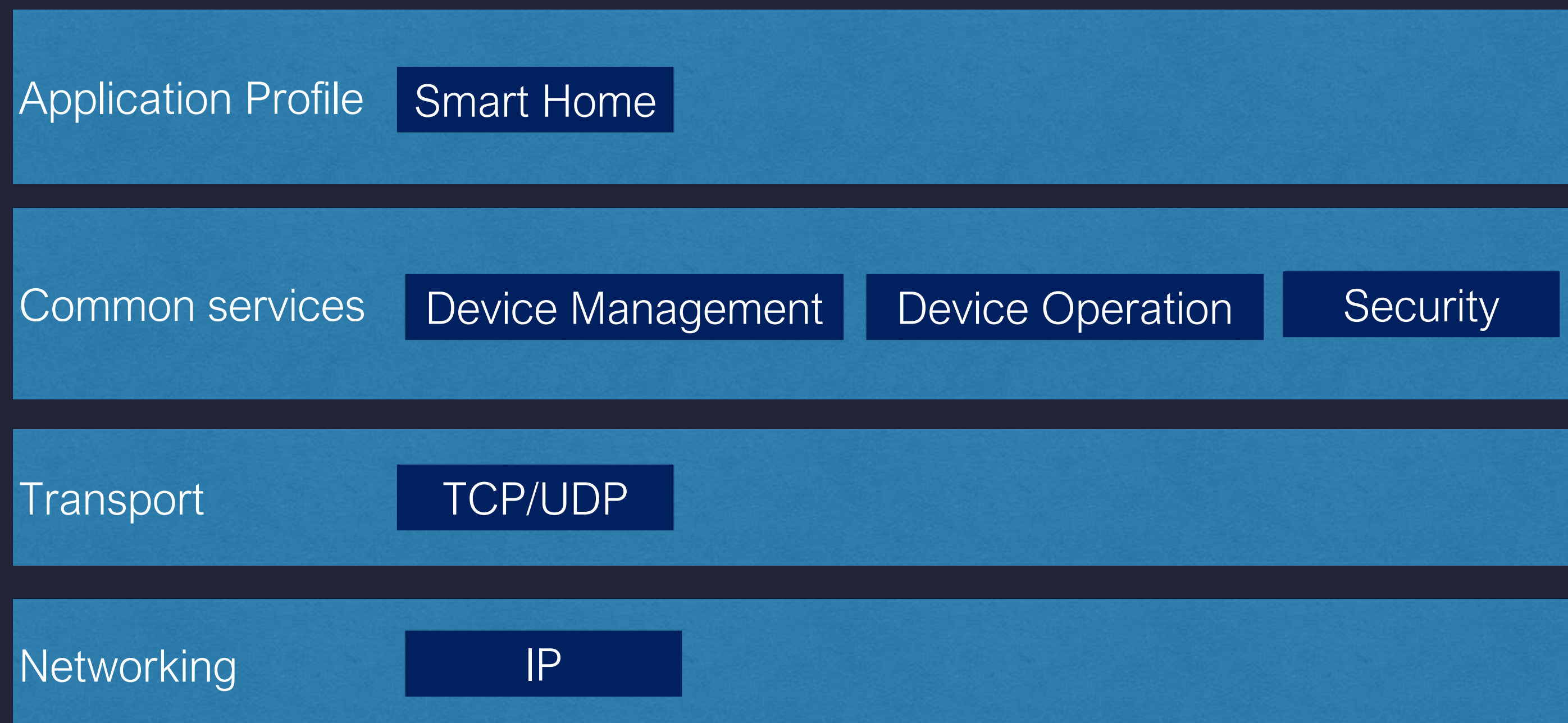
MIoT Architecture



MIOT Layered Model



MIOT Functional Model

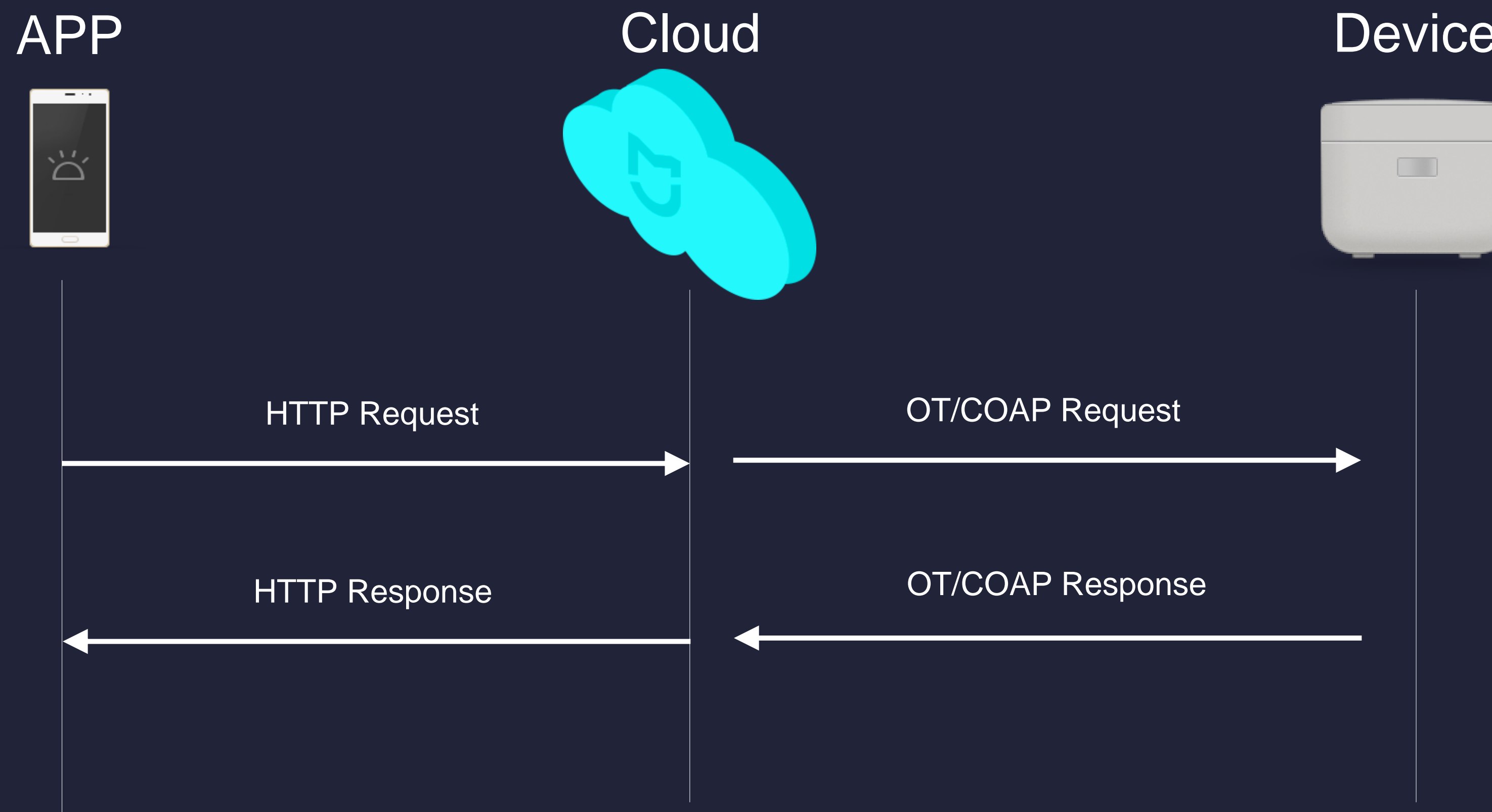


Device Management: Authentication, Log in, Keep alive, Time synchronization

Device Operation: Read, Write, Property Indication, Event Indication, Action),

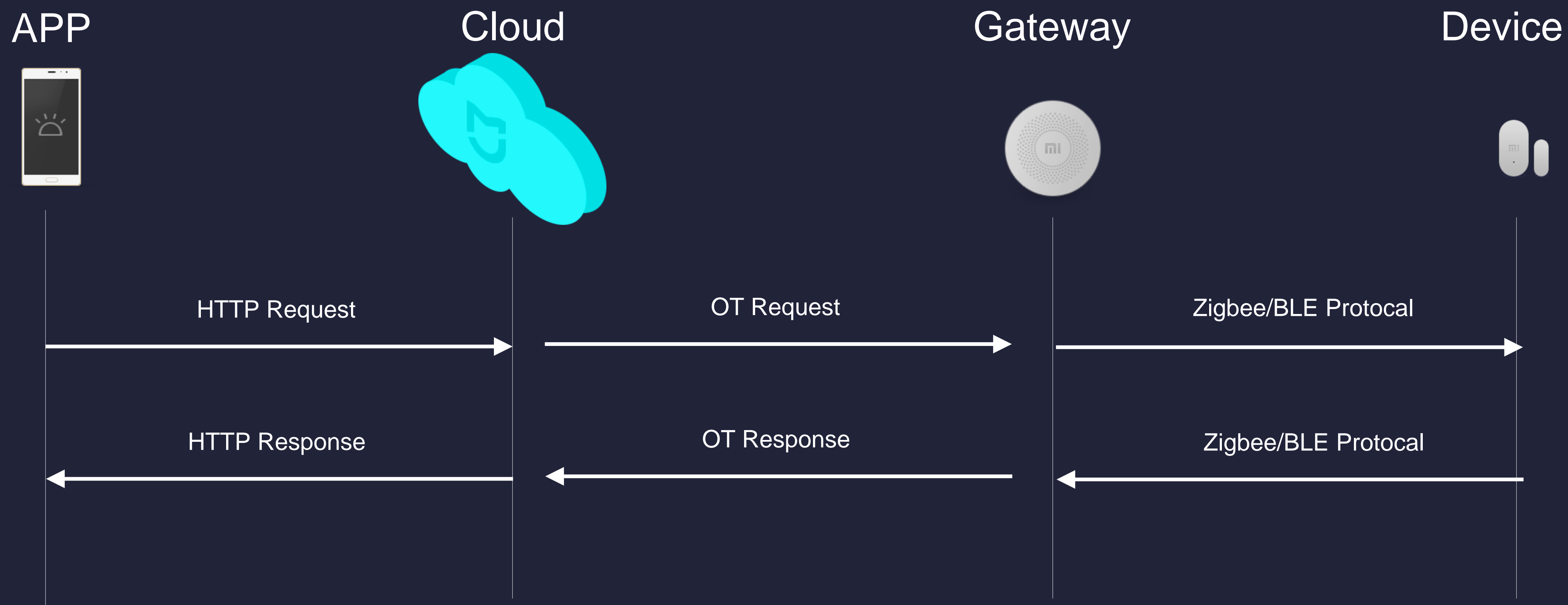
Security: TLS

Example Illustrating of MIoT Roles (no gateway)

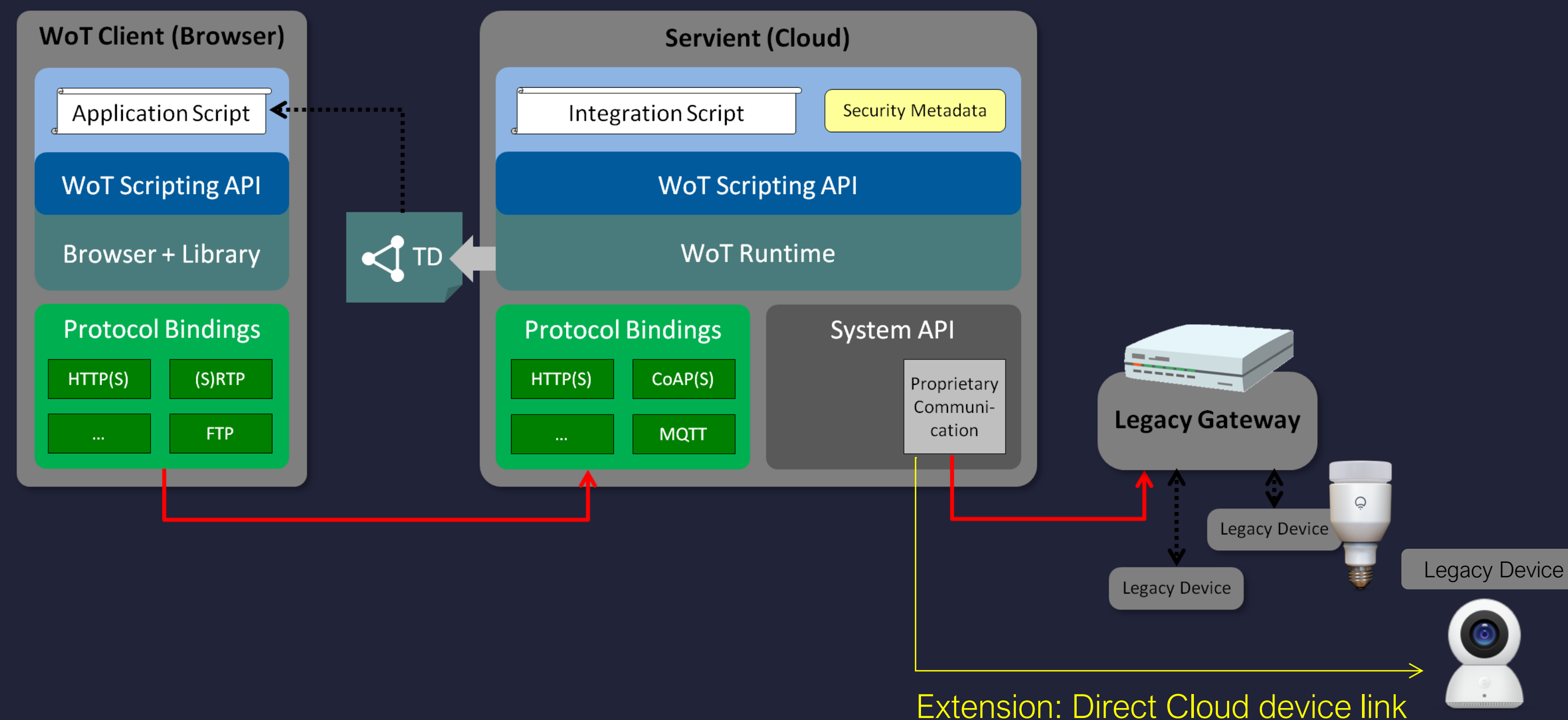


Note: OT is the application protocol defined in MIIOT for common services

Example Illustrating of MIoT Roles (with gateway)



MIoT Resembles WOT deployment scenario 6

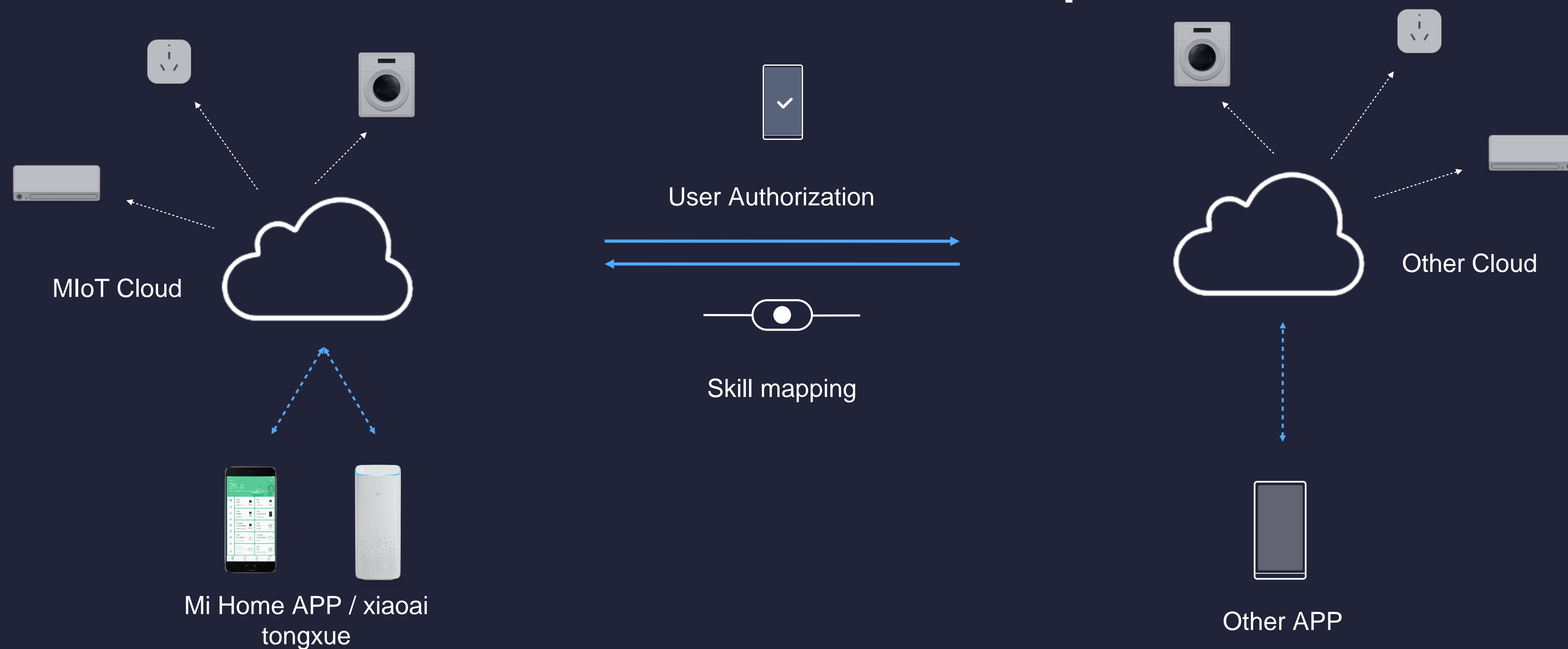


WOT scenario 6 Servient on Cloud Server **with extension of direct link between cloud and device**

How to Work with other vendors

1. Cloud-to-Cloud interoperation
2. Module Level integration
3. SDK/Dual-protocol interconnect

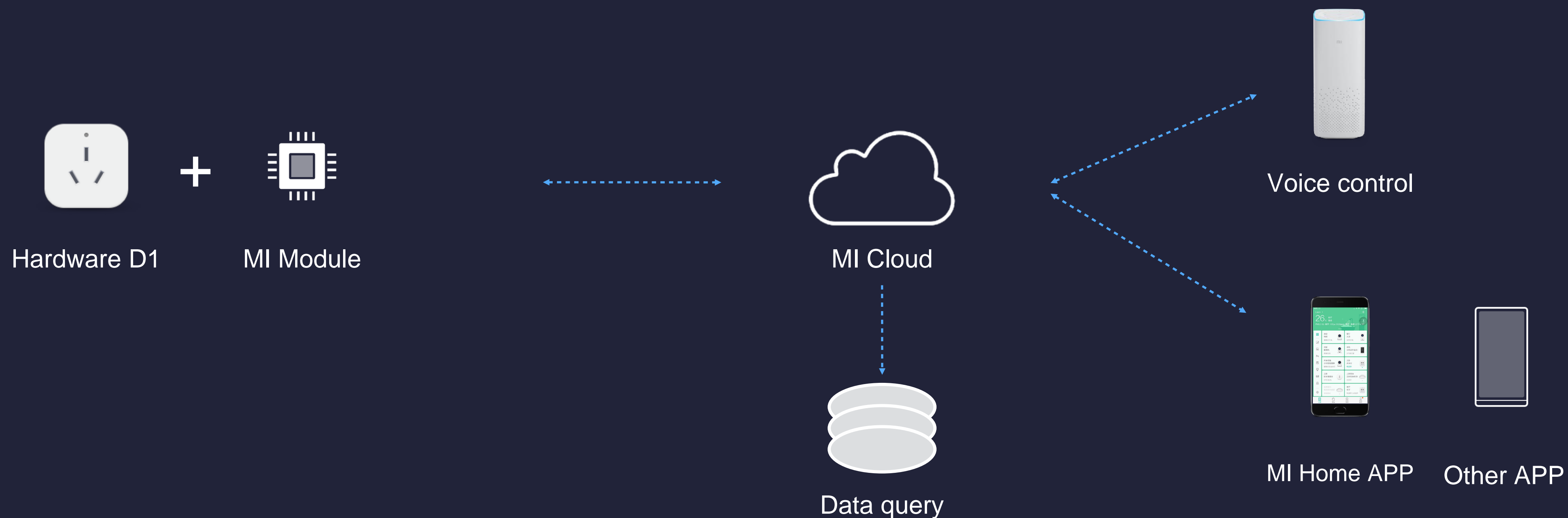
1. Cloud-to-Cloud interoperation



Advantage: with any module, in-market device can directly inter-operate without hardware change, Cloud co-exist

Disadvantage: Complicate flow, bad user experience, long response time

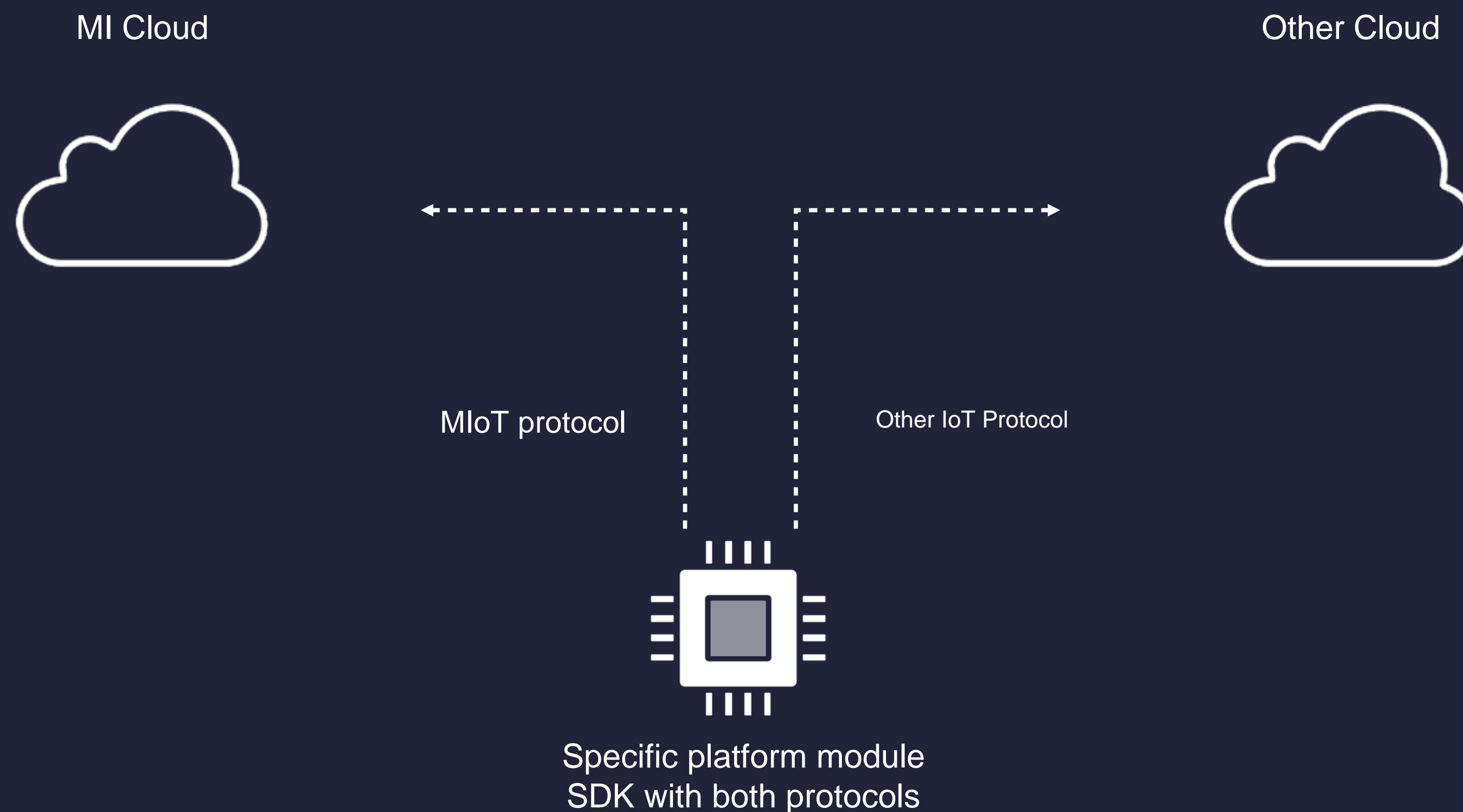
2. Module Level integration



Advantage: Simple, low cost, Fast development, High Reliability

Disadvantage: In-market devices cannot access, Vendors cannot use their own cloud

3. SDK/Dual-protocol interconnect



Advantage: Cloud co-exist, simple flow

Disadvantage: In-market devices cannot access, require huge hardware development, has additional requirement for hardware



Thanks~