Connecting People and Home

—MIoT Platfrom introduction
The Largest IOT platform worldwide
Total number of connected smart hardware: 1.32亿
Countries and regions covered: 200+

Connected devices in MIoT Platform

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
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

- 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
Xiaoitongxue, good night (trigger night mode)
xiaoaitongxue, switch on the bedroom light
xiaoaitongxue, what is air condition at home?
“xiaoaitongxue, ___ ”
Xiaoaitongxue, turn air conditioner to 25℃
Xiaoaitongxue, what is the temperature?
Xiaoaitongxue, get iRobot on work
MIoT – Smart Scenario

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

- Self-defined devices combined operation
- Multi-mension living scenario
- Personalized 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
Based on our Massive Devices

User with 5 devices over 1.98 Million
BlueTooth Mesh
Traditional BlueTooth solution

BLE device
- Low power consumption
- Low cost
- Small size
- Cannot always online

Smart Phone
- Requires user to launch app for data sync, low activity

Internet

Cloud
- Cannot reach device timely
- Cannot acquire state and control
BlueTooth Mesh

BLE + WiFi Dual-module
2016

BLE device

Internet

Cloud

Tens of dual-module product
Mi Home BLE Hygrothermograph
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 Layered Model

Device
- Application Profiles
- Common services
- Transport
- Networking

Cloud
- Application Profiles
- Common services
- Transport
- Networking
### MIOT Functional Model

<table>
<thead>
<tr>
<th>Application Profile</th>
<th>Smart Home</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common services</td>
<td>Device Management</td>
</tr>
<tr>
<td>Transport</td>
<td>TCP/UDP</td>
</tr>
<tr>
<td>Networking</td>
<td>IP</td>
</tr>
</tbody>
</table>

**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 MIOT for common services
Example Illustrating of MloT 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~