

2014年6月19日 星期四

HUAWEI ENTERPRISE **A BETTER WAY**

# Universal IoT Gateway in Enterprises

**enterprise.huawei.com**

HUAWEI TECHNOLOGIES CO., LTD.



# Content

1

From M2M to IoT

2

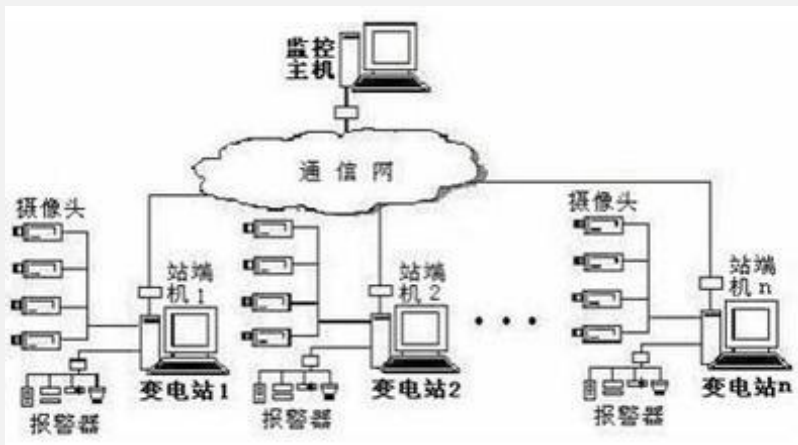
Requirement & Functionalities

3

Huawei's Pilot Projects

# M2M is not new at all

## Utility Scheduling Automation



## Video Surveillance



During this period, why there is no much discussion on M2M?

# The origin of IoT getting hot



What  
could be  
collected  
through  
internet



Audio/Video



Online comment



Surfing behaviour



Location



Humidity



Energy consumption



.....

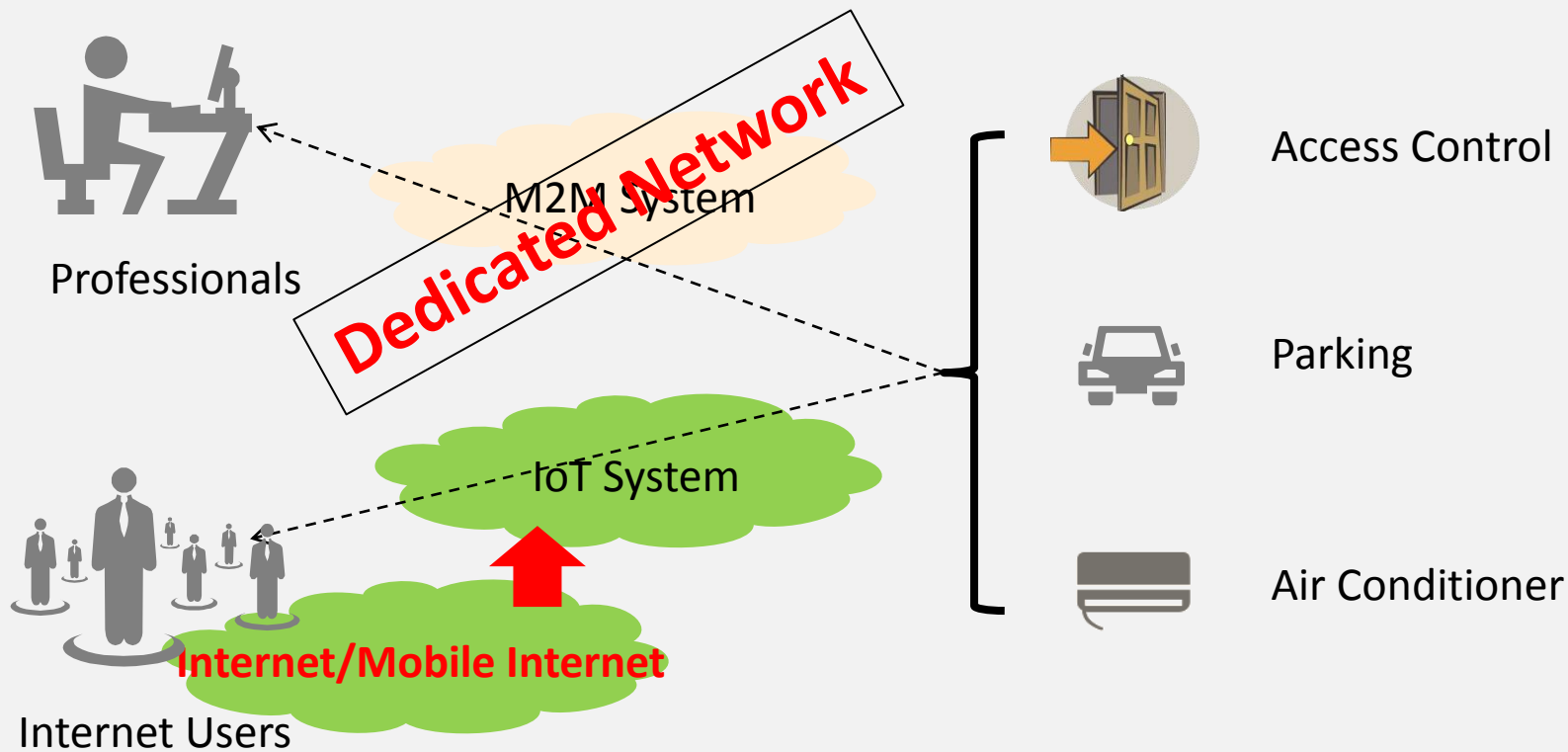
Person

Thing

Along with the booming of Mobile  
Internet,  
it's more easier to get connected

**IoT**——Internet of **T**hings

# Major differences between M2M & IoT – Target users



# IoT Market Segmentation

Personal IoT



Telematics

Family IoT



Building IoT  
Transport IoT  
Agriculture IoT  
.....

Enterprise IoT

# Content

1

From M2M to IoT

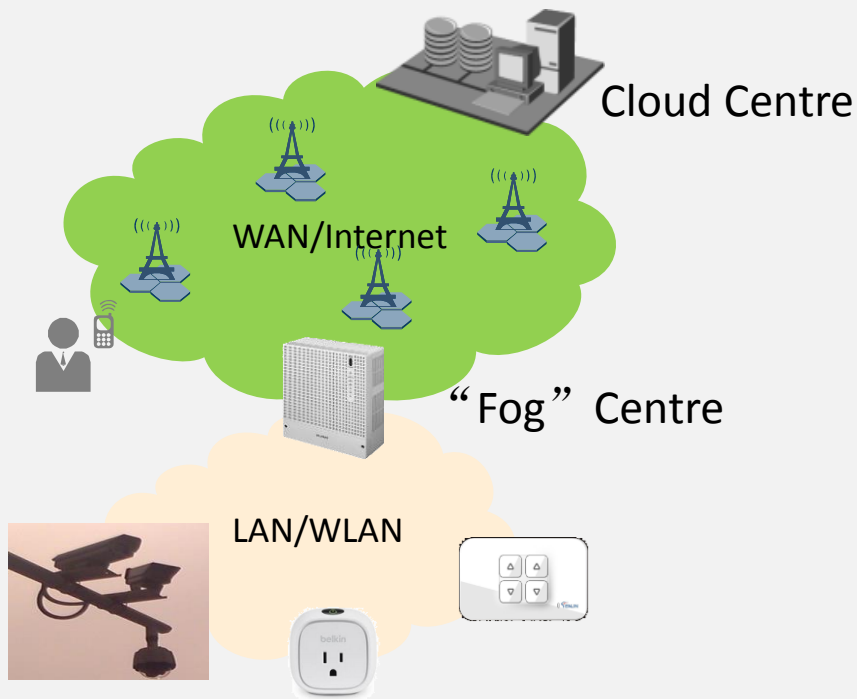
2

Requirement & Functionalities

3

Huawei's Pilot Projects

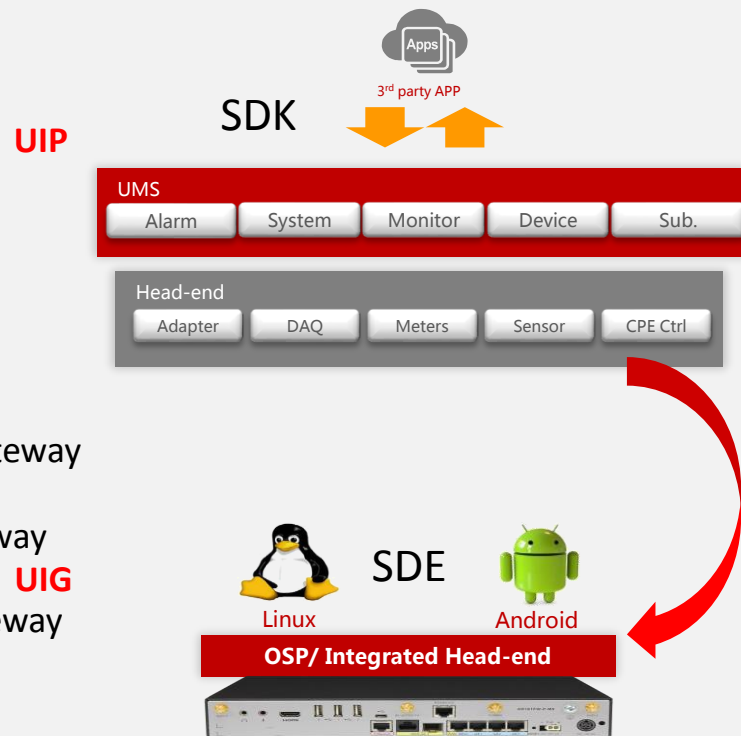
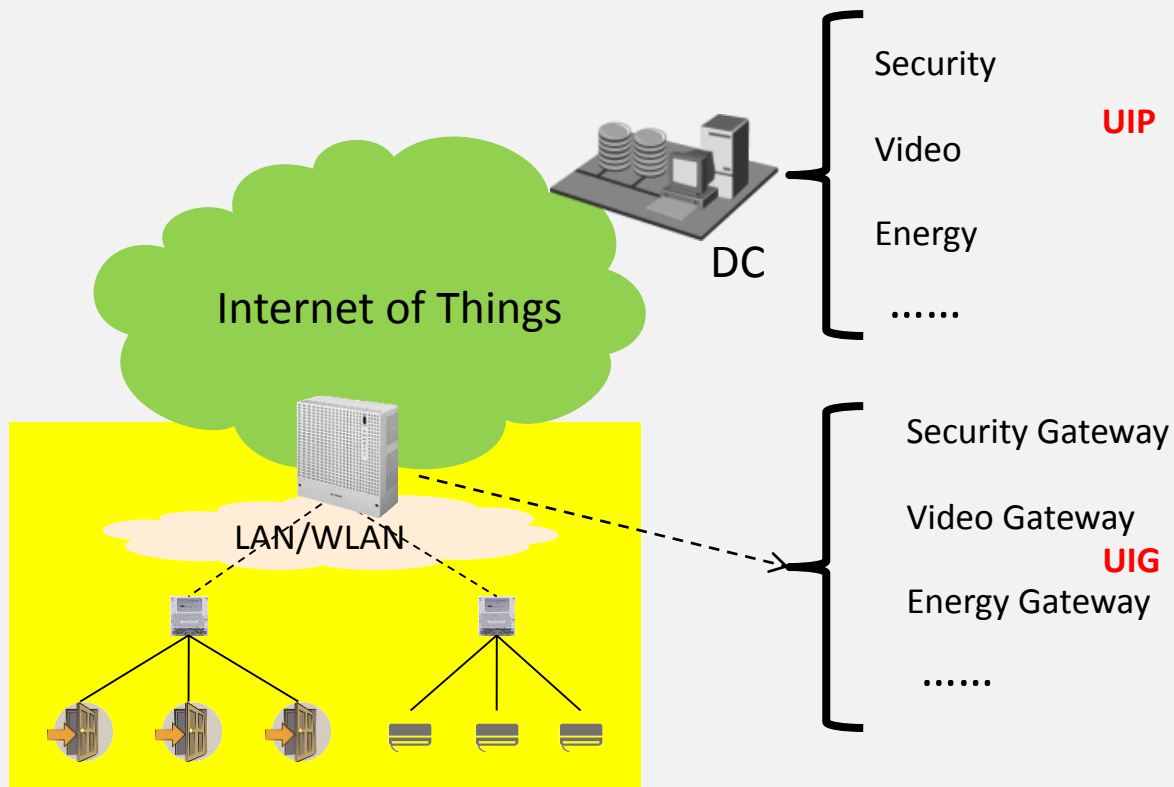
# Why it is essential to have a universal gateway?



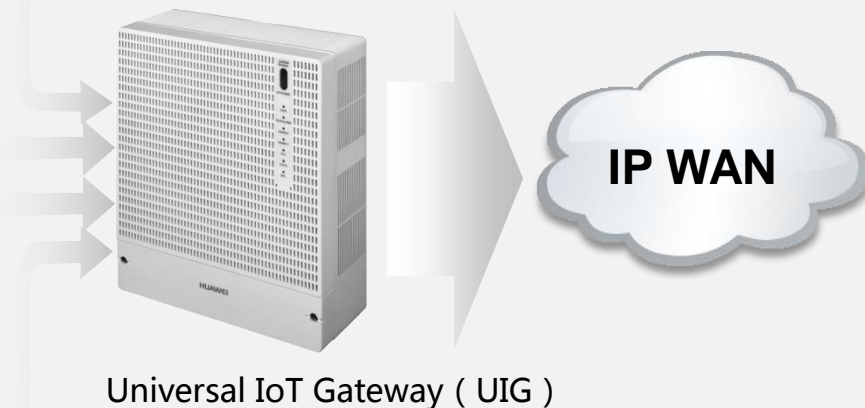
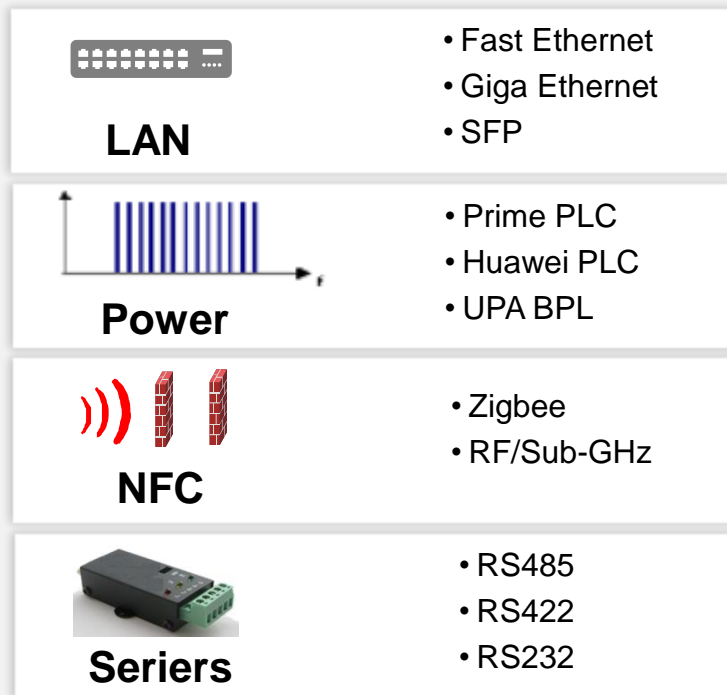
- 1、 It's too far from eyes/hands to brain, higher requirements for the nervous system.
- 2、 For those high bandwidth data service (video), the cost is too high if sending over WAN.
- 3、 Massive terminals operation requires a 'leader' .



# Universality requirement



# Rich of interfaces requirement



Not only support open standards LAN interfaces, but also various of industrial interfaces and BUS standards, easier for legacy network migration.

# Network safety ensurance

## Network



- IPSec/GRE/L2TP ensure data safety.
- Wireline+wireless , redundancy with dual link
- Firewall inside, with restricted access control

## MSC CPE



- Data security: Zigbee provided 3 layers security protection: No Setting / ACL (Access Control List) / Advanced Encryption Standards (AES128), ensure the data safety from the source.

# Content

1

From M2M to IoT

2

Requirement & Functionalities

3

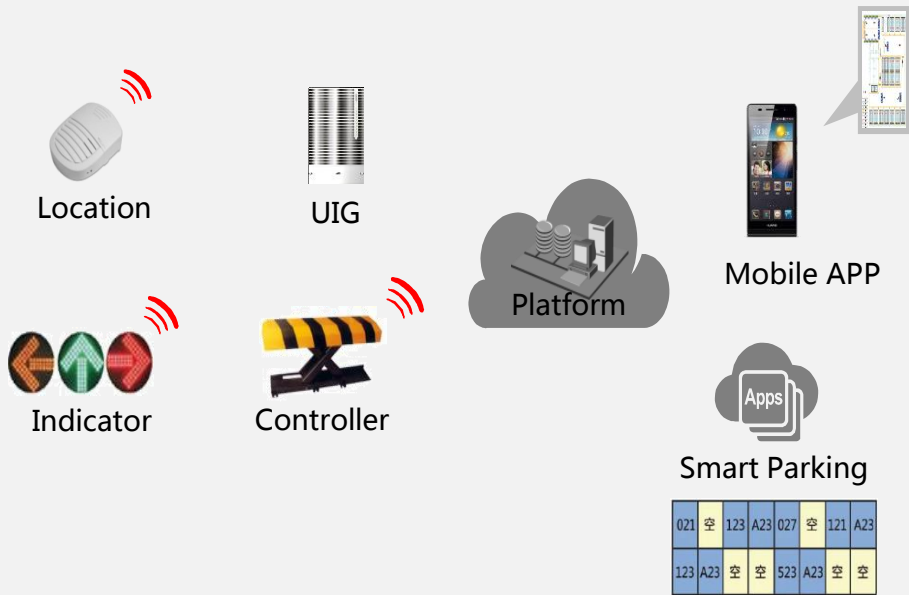
Huawei's Pilot Projects

# Smart Building with Energy Management



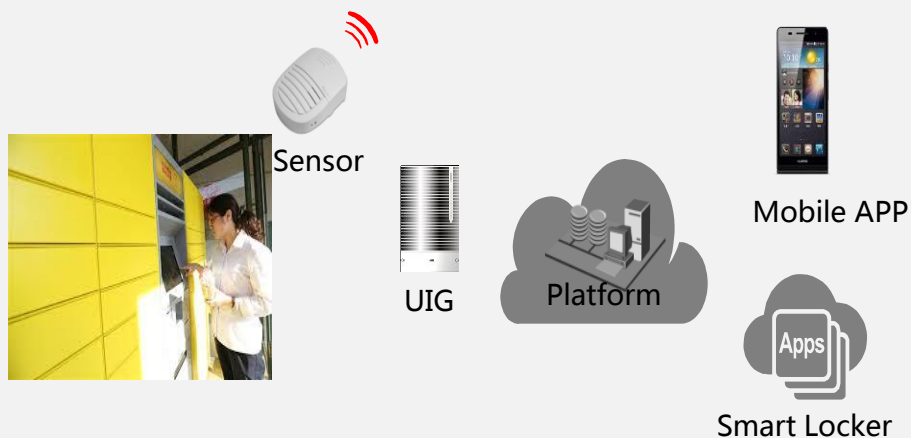
- ✓ Lighting/Air Conditioner Control
- ✓ Usage transparency & precision
- ✓ Indoor information sharing to user

# Smart Parking



- ✓ Detect parking space availability status and reserve for customer in advance.
- ✓ Push the real time availability info onto end user' s mobile APP and display in graphic for easy finding the location.
- ✓ Online booking & payment integrated
- ✓ Customer care service to attract more visitors.

# Smart Locker



- ✓ Improve the efficiency and security of the goods delivery for local residence.
- ✓ Attract more visitor to the mini-stores
- ✓ Increase the efficiency for deliveryman



## HUAWEI ENTERPRISE **A BETTER WAY**

**Copyright©2012 Huawei Technologies Co., Ltd. All Rights Reserved.**

The information in this document may contain predictive statements including, without limitation, statements regarding the future financial and operating results, future product portfolio, new technology, etc. There are a number of factors that could cause actual results and developments to differ materially from those expressed or implied in the predictive statements. Therefore, such information is provided for reference purpose only and constitutes neither an offer nor an acceptance. Huawei may change the information at any time without notice.