



中国移动  
China Mobile

# SIM in M2M

China Mobile

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- **SIM in M2M**
- **Variety of Embedded SIM**
- **Embedded SIM management**
- **Looking ahead**

# SIM usage in M2M applications



## Tracking : GPS+LBS

Indoor location coverage  
Outdoor data transmission

## Smart Metering

Data periodic upload

## Wireless POS

Easy to carry, ubiquitous  
network access



## Telematics

Location, High-bandwidth  
data transmission  
(diagnostic, maintenance )

## Video Session

Video surveillance  
Video conference

## Wearable Devices

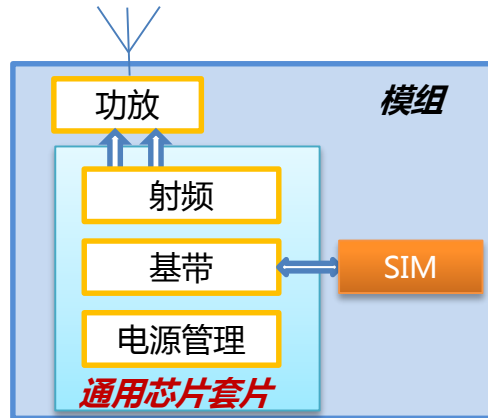
Location, data  
transmission



## Surface Mount Technology SIM ( MS0、MS1 )



M2M dedicated module

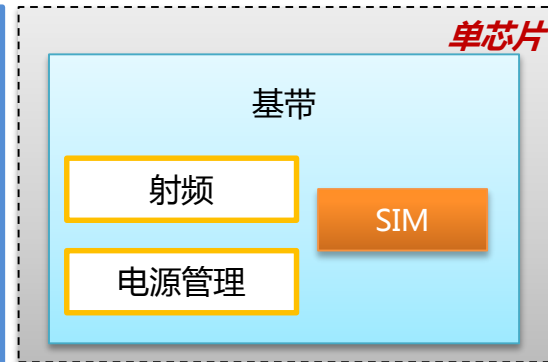
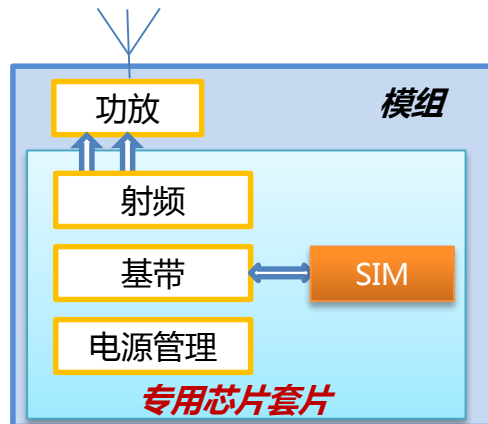


## Unified Modem Module solution base on generic chipset:

- Integrated SIM with Modem Module



M2M dedicated chipset



## Special Chipset solution :

Integrate SIM with BBU chipset

To meet the special requirement for M2M applications, highly integrated Embedded SIM with modem or chipset will increase SIM card adaptability and reduce the cost



## ➤ Remote Provisioning Process

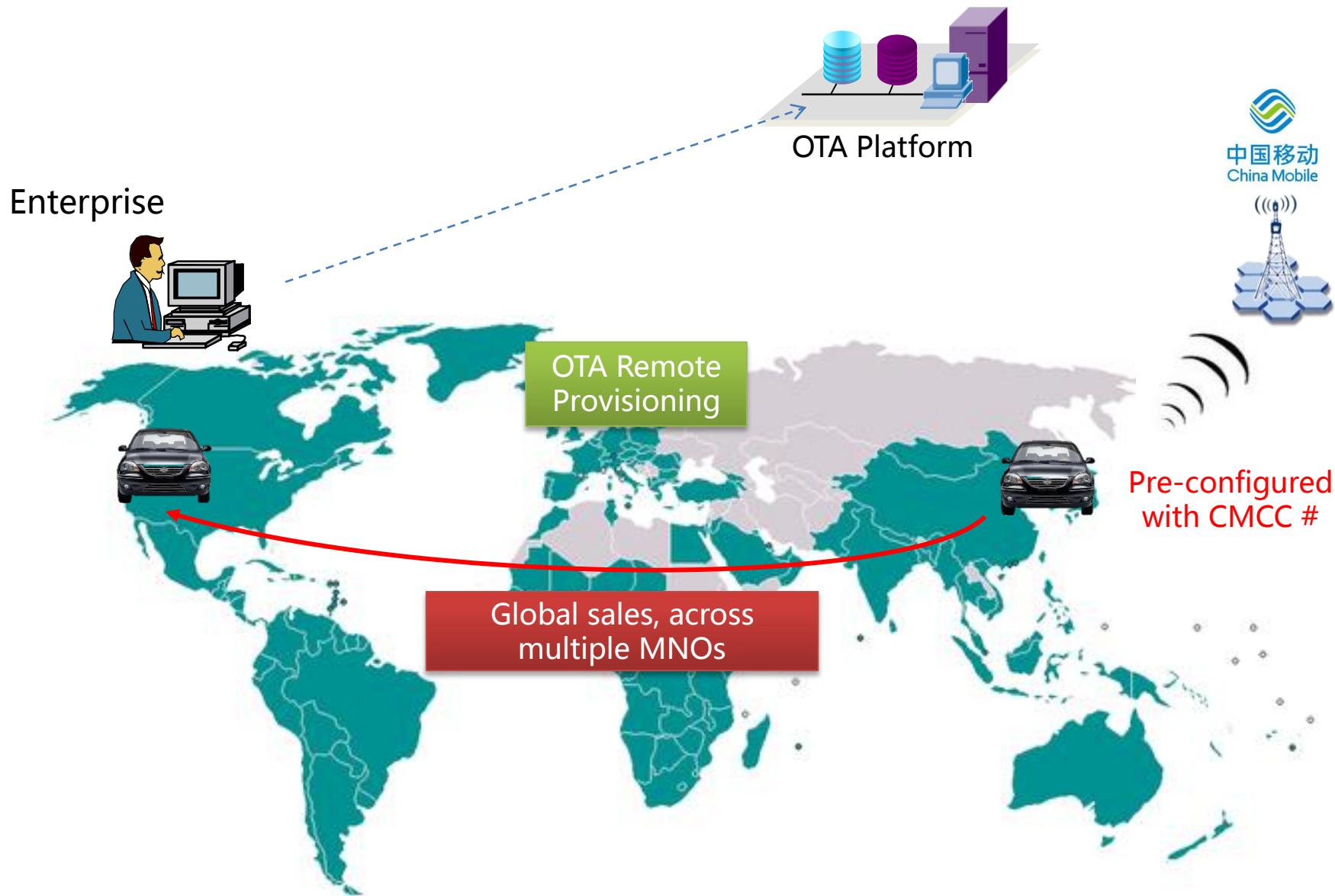
- Pre-configured a temporary # during manufacturing. Modify with local # subject to the sales and usage requirement, to release the permanent roaming pressure.
- When device ownership changes, remote provision with new # due to meet service requirement
- During empty card subscription, the sales office can unified the SIM card distribution & modification into one process, simplify the SIM card type and reduce the multiple order cost incurred.

## ➤ Remote Provisioning management

- Status inquiry before/after the provisioning
- When shut down, periodically check network attachment status of the equipment, will auto trigger the OTA process once power on and attach to the network
- If provision failed, synchronize the status between SIM card and backend system, resume and update network side status.

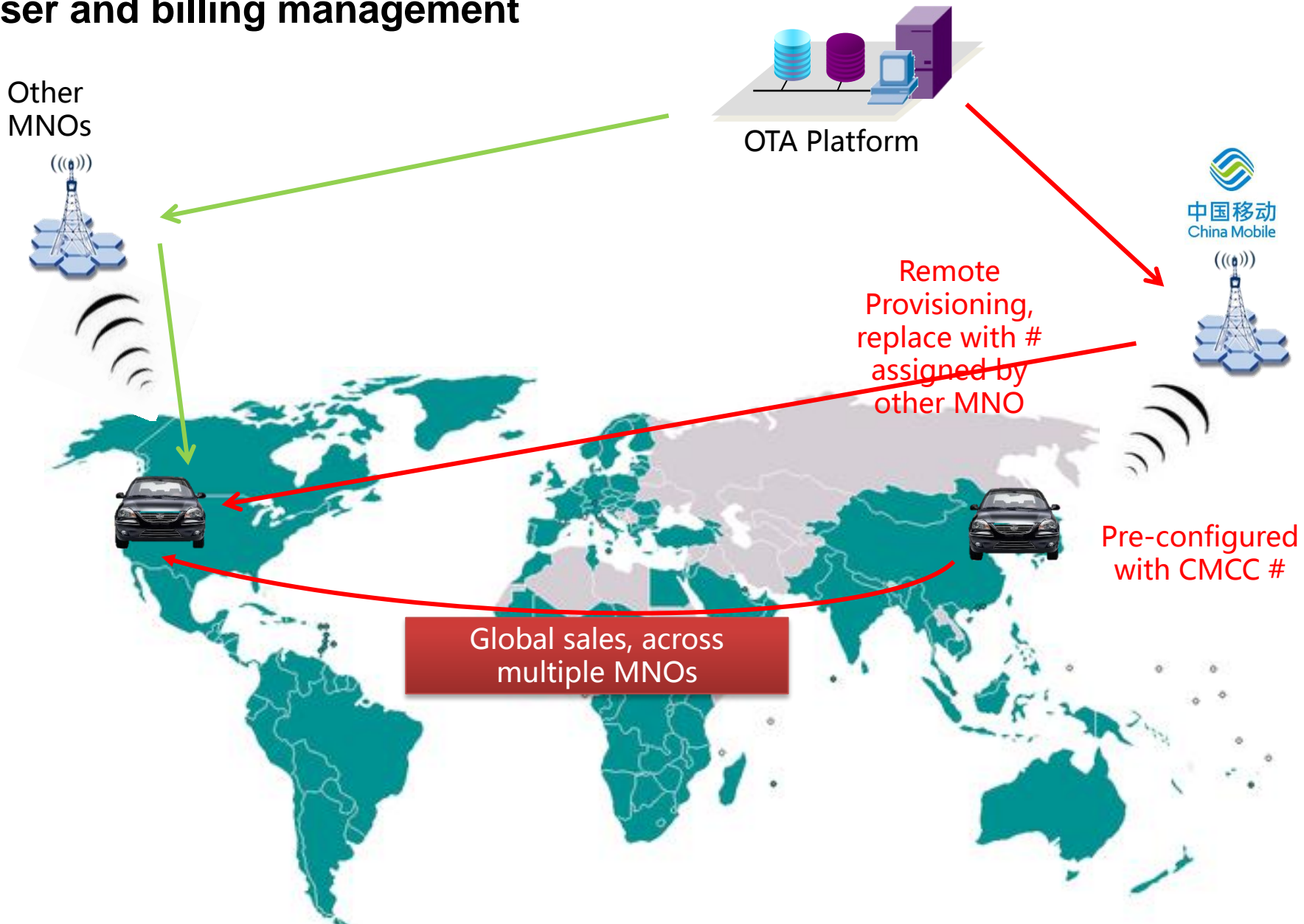
- Support GSMA eSIM architecture and technical specification
- Open remote provisioning and operation management system capabilities, Support remote provisioning across operators. Provide device management solution for enterprise customers.
- Provide profile management and remote provisioning for those CMCC issued SIM card for M2M applications.

# Support inter-operability across Operators to meet international business requirement, provide total solution including equipment, user and billing management





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- **Base on network subscriber identify, extend SIM card functionality into – unified and integrated identity carrier**

Subscriber identity and authentication

Equipment authentication

Group authentication

Multiple application carrier



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# Thank You!

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