Training Module Five: TAC Application for IoT Manufacturers

IoT Module

March 2019 V1.0

What is a TAC and who issues it?

Type Allocation Code (TAC)

Serial Number

Check Digit
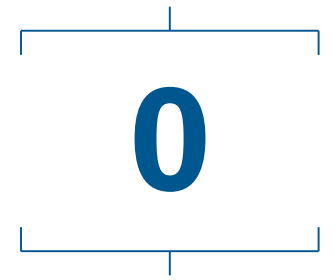
86 **916102** **991292** **0**

Reporting Body identifier

Type Identifier
Indicating brand owner and device model type

Unique Number assigned to individual devices by the manufacturer

A function of the other digits [calculated by the manufacturer]

The **International Mobile Equipment Identifier (IMEI)**
is a unique15 digit code which identifies each *individual* mobile device

What Mobile devices need a TAC?

IoT Equipment Types

IoT Device

Modem
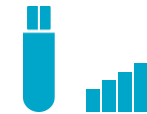
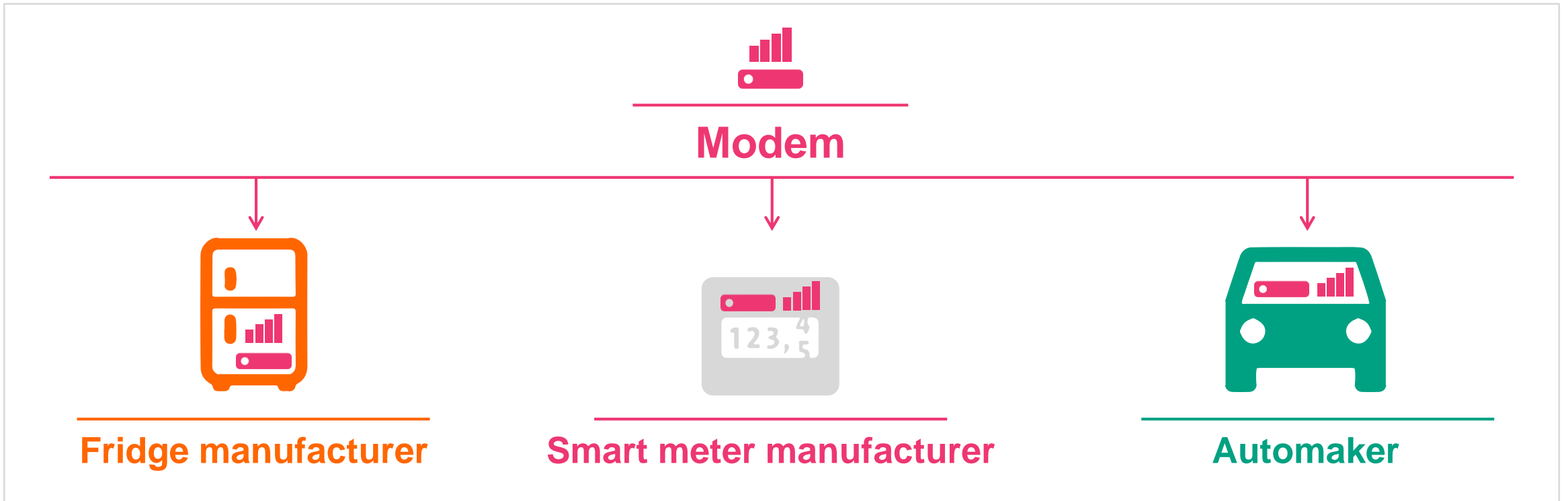**Wearable**

Other Equipment Types

Mobile / Feature Phone

Smartphone

Tablet

Dongle

WLAN Router

When IoT modems are installed in other equipment, who applies for TAC?

Modem

Fridge manufacturer

Smart meter manufacturer

Automaker

Modem producer applies for TAC

When do IoT require TAC?

✓ Where a device connects to cellular network, **it needs a TAC**			
2G	**5G**	GSM	NB-IoT
3G	WCDMA	E-ULTRA	New Radio (NR) Standalone/ Dual Connectivity (DC)
4G	LTE-M	FDD /TDD	MIoT

Who benefits from IoT TAC / IMEI?

IoT Brand Owners and Modem Producers

- Network connectivity
- Compliance with international trade regulation
- Type approval

Customs & Excise

- Taxation
- Certification
- Authenticity
- Counterfeit detection

Operator

- Identification
- Support
- Device blocking
- Lawful interception / location
- Updates
- Configuration
- Analytics
- Sales & marketing
- Service delivery
- Whitelisting
- Fraud detection

Law Enforcement

- Theft checking
- Lawful interception / location
- Compliance checking

Government & Regulators

- Certification
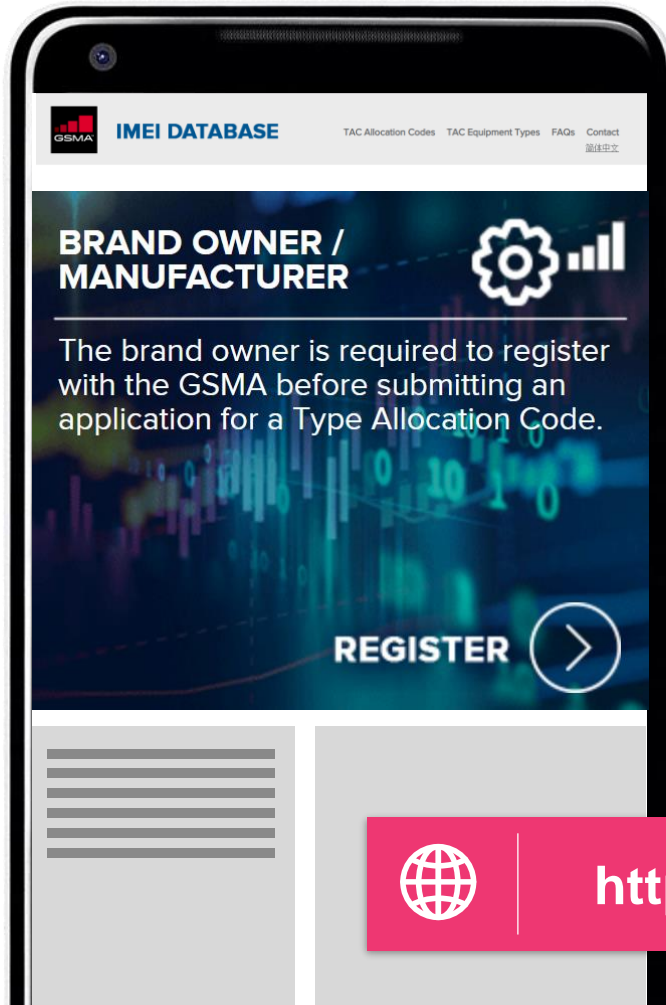- Type approval
- Taxation
- Crime management

IoT Service Providers

- Identification
- SW updates
- Remote control
- Support
- Blocking
- Fraud detection

Where to apply for TAC?

You will find training materials to help you

https://imeidb.gsma.com/

To register for TAC allocations or to clarify any of this material, please contact:

imeihelpdesk@gsma.com