

RESPONSES TO

## TRAI's Consultation Paper on 'Embedded SIM for M2M Communications'



Telecom Regulatory Authority of India



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TOTAL RESPONSES

8

DRAFT MADE PUBLIC ON

### Summary

The Telecom Regulatory Authority of India (TRAI) is seeking comments on its Consultation Paper on 'Embedded SIM (e-SIM) for M2M (machine-to-machine) Communications.

An electronic gadget with a cellular connection has an eSIM (Embedded Universal Integrated Circuit Card) chip on its circuit board. The Global System for Mobile Communication Association (GSMA) has standardized two eSIM models based on two distinct use cases: M2M or Internet of Things devices, known as Machine to Machine eSIM, and for end-user consumer devices.

### M2M Communication Technologies

Data communication is a type of M2M communication. It generates substantial opportunities and fundamentally alters the performance of numerous verticals across various industries. The M2M Ecosystem generally comprises Device Manufacturer or Provider, Connectivity or Network Provider, M2M Service Provider (MSP), M2M Application Provider, and End User.

M2M communications are the technologies that let wired and wireless systems connect with similar-capability devices. Fixed & short-range technologies and long-range technologies can be used to categorize M2M communications. The fixed range includes Radio Frequency Identifiers Bluetooth, Zigbee, and Wi-Fi, whereas the long-range includes RF Module Based (LPWA) Communication, LoRa, and SIGFOX.

### SIM-based M2M Communication

Sim cards come in a variety of sizes, including full size, mini size, micro, and others. M2M SIMs utilize the same wireless cellular networks as standard mobile SIMs. However, they provide advantages over them, including:

1. Durability: Long service life even under challenging circumstances.
2. Through an Over-the-Air (OTA) technology and remotely manageable.
3. Advanced functionality that emphasizes effectiveness, dependability, and hardware durability.

### Embedded SIMs for M2M Communications: Policy Aspects

SIM cards are sometimes unreachable in M2M wireless modules, making SIM changes difficult or impossible. An embedded SIM is a programmable SIM card built directly into the device. Unlike typical SIM cards, the eUICC, a form factor, is soldered to the device's Printed Circuit Board (PCB) and cannot be removed or replaced.

New operator profiles are downloaded to the eSIM as needed. The Embedded SIM Specification streamlines logistical operations, including installing a single SIM SKU in an M2M device at the time of production and downloading



secure.

To read the complete document, click [here](#).

### Consultation satisfaction



### Public responses

[What are public responses?](#)



**Bimlesh Kumar**

Satisfactory initiative



**Ms. Babita**

Somewhat Satisfied

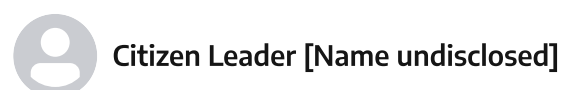


### Other responses



**Citizen Leader [Name undisclosed]**

The above regulations,I think, will guarantee the interest of policy honders as well as appropriately reward the agents



**Citizen Leader [Name undisclosed]**


The above regulations,I think, will guarantee the interest of policy honders as well as appropriately reward the agents





**Citizen Leader [Name undisclosed]**

Satisfactory initiative



 Citizen Leader [Name undisclosed]  
Somewhat Satisfied

 Citizen Leader [Name undisclosed]  
Somewhat Satisfied

 Citizen Leader [Name undisclosed]  
Somewhat Satisfied

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