

## CITC Technical Specification

# Requirements for specific ICT Equipment

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## Scope

This documents includes all the additional requirements for the following products and technologies:

- Mobile Phones, Tablets and Mobile Computers
- Mobile Routers and CPEs
- Cellular IoT devices

Note: Limited exceptions from any of the listed requirements in this document may be made at the sole discretion of CITC on a case-by-case basis.

## Enforcement

This regulation shall enter into force on 01/01/2022.

Any previous version of this document is withdrawn.

# Requirements for Mobile Phones, Tablets and Mobile Computers

## General Requirements

Each interface must comply with the applicable technical specifications issued by CITC.

Applications for type approval of these devices are only accepted through the manufacturer of the device. Third parties are not permitted to apply for the approval of these devices.

Samples of the devices might be required by CITC for testing purposes upon request.

It is the responsibility of the manufacturer to perform testing and provide confirmations from all Saudi mobile network operators that the device meets the listed requirements before applying for type approval.

Manufacturers must also arrange and perform testing with all Saudi mobile network operators before deploying software updates on their devices.

Saudi mobile network operators shall perform the required tests and provide confirmations to CITC, in order to ensure the devices compatibility with their networks.

## Technology Requirements:

Devices are required to support LTE (4G) technology as a minimum requirement.

5G devices are also required to support eSIM and WiFi 6e (5.925-7.125 GHz).

### Frequency Requirements:

The following frequency bands are mandatory to be supported by the device per the technology supported:

LTE: B1, B3, B8, B20, B28, B40, B41 (2540-2640MHz) and B71.

5G NR: n1, n3, n8, n20, n28, n40, n41 (2500-2690MHz), n71 and n77.

### Voice Services Requirements:

Devices shall support the following voice services:

VoLTE: Voice over LTE

VoWiFi: Voice over WiFi

For 5G devices, the following voice services are also required:

VoNR: Voice over New Radio

ViNR: Video over New Radio

### Emergency Communications Services Requirements:

All handsets must support the Cell Broadcast Service (CBS) service as per CITC's technical requirements on mobile devices to enable cell broadcast service (CBS) alert:

[https://www.citc.gov.sa/en/RulesandSystems/RegulatoryDocuments/EquipmentApproval/Documents/TA\\_704\\_E\\_CITC.pdf](https://www.citc.gov.sa/en/RulesandSystems/RegulatoryDocuments/EquipmentApproval/Documents/TA_704_E_CITC.pdf)

All smart devices must also support the Advanced Mobile Location AML emergency communication service and testing should be carried out to ensure compliance with ETSI TR 103 393

## E-Label Requirements:

Devices are required to have CITC E-Label embedded in their software as a proof of compliance. E-Label must be accessible by users of the devices.

It is the responsibility of the manufacturer to implement the E-Label design showing the certificate number issued by CITC.

After having the approval from CITC, the issued type approval number (TA xxxx-y) must be inserted it in the e- label. The E-Label must follow the following design:



## Requirements for Mobile Routers and CPEs

### General Requirements

Each interface must comply with the applicable technical specifications issued by CITC.

Samples of the devices are required by CITC for testing purposes upon request.

### Technology Requirements:

All CPEs and Mobile Routers are required to support WiFi 6 and WiFi 6e (5.925-7.125 GHz) as a minimum requirement. Mobile routers are also required to support the following as a minimum requirement:

- 1- LTE (4G) and 5G NR technologies
- 2- eSIM

### Frequency Requirements:

The following frequency bands are mandatory to be supported by the device per the technology supported:

LTE: B1, B3, B8, B20, B28, B40, B41 (2500-2690MHz) and B71.

5G NR: n1, n3, n8, n20, n28, n40, n41 (2500-2690MHz), n71, and n77

## Requirements for Cellular IoT devices

### General Requirements

Each interface must comply with the applicable technical specifications issued by CITC.

Tracking devices are only allowed to be imported by Tracking Services providers whom registered at CITC.

Samples of the devices are required by CITC for testing purposes upon request.

### Technology Requirements:

Devices are required to support LTE (4G), NB-IoT, or LTE-M technologies as a minimum requirement.

### Frequency Requirements:

The following frequency bands are mandatory to be supported by the device per the technology supported:

LTE: B3, B8, B20 B28 and B71.



## History

For reference, the latest versions of the technical specifications are published on the CITC website [www.citc.gov.sa](http://www.citc.gov.sa).

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