

---

# TECHNICAL SPECIFICATION

---

## Emergency Call (eCall)

TS FS 002, Version 2.0

Document Date: November 25, 2019

---

---

Telecommunications Regulatory Authority (TRA)  
P O Box 26662, Abu Dhabi, United Arab Emirates (UAE) [www.tra.gov.ae](http://www.tra.gov.ae)

---

TS FS 002, Version 2.0

## VERSION CONTROL

Version:	Issue Date:	Reason for Issuance:
1.0	October 01, 2017	Version 1
2.0	November 25, 2019	Updated

## TABLE OF CONTENTS

<b>1</b>	<b>GENERAL REQUIREMENTS</b> .....	<b>3</b>
<b>2</b>	<b>SCOPE</b> .....	<b>3</b>
<b>3</b>	<b>DEFINITIONS</b> .....	<b>3</b>
<b>4</b>	<b>TECHNICAL REQUIREMENTS</b> .....	<b>4</b>
4.1	IN-BAND MODEM SPECIFICATIONS.....	4
4.2	GSM RADIO AND NETWORK SPECIFICATIONS.....	4
4.3	UMTS RADIO AND NETWORK SPECIFICATIONS.....	5
4.4	CEN SPECIFICATIONS.....	6
4.5	VALIDITY OF STANDARDS .....	6
<b>5</b>	<b>EFFECTIVE DATE</b> .....	<b>7</b>

TS FS 002, Version 2.0

## 1 General requirements

Technical specification has been prepared and approved by Telecommunications Regulatory Authority (TRA) based on Telecommunication apparatus Type Approval Regime.

Several technical specifications may apply to the equipment. If equipment within the scope of this technical specification also incorporates functions that are covered by another technical specification, the relevant technical specification is applied to each function separately. The influence of one function on the other is taken into account.

## 2 Scope

This specification lists the technical requirements applicable to the following types of radio equipment:

Emergency call ecosystem

## 3 Definitions

Unless the context requires otherwise, the expressions and wordings appearing in Federal Law by Decree No. (3) of 2003 Regarding the Organisation of the Telecommunications Sector shall have the same meaning ascribed thereto in the above-mentioned Federal Law by Decree, and the following expression and wording shall have the following meanings assigned thereto:

### Emergency Call - eCall

manually or automatically initiated emergency call (TS12) from a vehicle, supplemented with a minimum set of emergency related data (MSD), as defined under the EU Commission's eSafety initiative.

ETSI

European Telecommunications Standards Institute

3GPP

3rd Generation Partnership Project

TS FS 002, Version 2.0

## 4 Technical Requirements

All equipment shall comply with TRA specification TS HS 001 concerning Health and Safety Requirements

### 4.1 In-band Modem Specifications

3GPP TS 22.101	Service aspects; Service principles
3GPP TS 24.008	Mobile radio interface Layer 3 specification; Core network protocols; Stage 3
3GPP TS 26.267	eCall data transfer; In-band modem solution; General description
3GPP TS 26.268	eCall data transfer; In-band modem solution; ANSI-C reference code
3GPP TS 26.269	eCall data transfer; In-band modem solution; Conformance testing
3GPP TR 26.969	eCall data transfer; In-band modem solution; Characterization report
ETSI TS 103 321	Mobile Standards Group (MSG); eCall HLAP Conformance Testing; Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)

### 4.2 GSM Radio and Network Specifications

3GPP TR 26.969	eCall data transfer; In-band modem solution; Characterization report
3GPP TS 51.010	Mobile Station (MS) conformance specification; Part 1: Conformance specification
3GPP TS 45.002	Multiplexing and multiple access on the radio path

TS FS 002, Version 2.0

3GPP TS 45.003 Channel coding

3GPP TS 45.004 Modulation

### 4.3 UMTS Radio and Network Specifications

3GPP TS 25.101 User Equipment (UE) radio transmission and reception (FDD)

3GPP TS 25.104 Base Station (BS) radio transmission and reception (FDD)

3GPP TS 25.133 Requirements for support of radio resource management (FDD)

3GPP TS 25.201 Physical layer - general description

3GPP TS 25.211 Physical channels and mapping of transport channels onto physical channels (FDD)

3GPP TS 25.212 Multiplexing and channel coding (FDD)

3GPP TS 25.213 Spreading and modulation (FDD)

3GPP TS 25.214 Physical layer procedures (FDD)

3GPP TS 25.215 Physical layer; Measurements (FDD)

3GPP TS 25.321 Medium Access Control (MAC) protocol specification

3GPP TS 25.322 Radio Link Control (RLC) protocol specification

3GPP TS 25.331 Radio Resource Control (RRC); Protocol specification

## TS FS 002, Version 2.0

3GPP TS 25.41x	UTRAN Iu interface: General aspects and principles
3GPP TS 25.42x	UTRAN Iur interface general aspects and principles
3GPP TS 25.43x	UTRAN Iub Interface: general aspects and principles
3GPP TS 34.108	Common test environments for User Equipment (UE); Conformance testing
3GPP TS 34.121	Terminal conformance specification, Radio transmission and reception (FDD)

### 4.4 CEN Specifications

CEN EN 15722	eCall minimum set of data (MSD)
CEN EN 16072	Pan European eCall Operating Requirements (PEOR)
CEN EN 16062	eCall High Level Application Protocols (HLAP)
CEN TS 16454	ECall end to end conformance testing

### 4.5 Validity of standards

If no issue or revision number is quoted along with the title of a standard, the valid edition should be used. The valid of the standard can be checked on:

- For EN standards:

[http://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/rtte/index\\_en.htm](http://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/rtte/index_en.htm).

TS FS 002, Version 2.0

## 5 Effective date

All handsets entering UAE shall be compliant with these specifications, effective from 2020 for all 2021 models.