
TECHNICAL SPECIFICATION

Advanced Mobile Location

TS FS 004, Version 1.0

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1 General requirements

Technical specification has been prepared and approved by Telecommunications and Digital Government Regulatory Authority (TDRA) 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 technical specification applies to Mobile Terminals to be used in the Public Mobile Radio Communication System and services in cellular networks. All mobile handsets shall support advanced mobile location feature. AML is a function that is triggered by an emergency call, and location information established by the handset, using its built-in GNSS and Wi-Fi connectivity, together with user plane assistance data from a handset-selected service where available, is transported (e.g. through use of SMS) to the Emergency Service PSAPs.

This technical specification defines minimum technical requirements for mobile handsets and additional essential requirements based on Telecommunication Apparatus Type Approval Regime.

Unless the context requires otherwise, the expressions and wordings appearing in the Telecommunication Apparatus Type Approval Regime shall have the same meaning described thereto.

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

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shall have the following meanings assigned thereto:

ETSI	European Telecommunications Standards Institute
3GPP	3rd Generation Partnership Project
AML	Advanced Mobile Location

4 Technical Requirements

4.1. Mobile Terminals Technical Specifications

The equipment shall comply with allocated frequency bands given in the National Frequency Allocation Table (NFAT), UAE 15.

The equipment shall meet the requirements of following standard(s):

ETSI TS 103 625	Emergency Communications (EMTEL); Transporting Handset Location to PSAPs for Emergency Calls - Advanced Mobile Location
ETSI TS 103 825	Emergency Communications (EMTEL); Testing - Conformance test specifications for Advanced Mobile Location; Test Purposes (TP) for the handsets

4.2. Specifications:

The equipment shall meet the following requirements:

- 4.2.1. The Handset shall be configured by default to send AML SMS when an emergency call is initiated.
- 4.2.2. The AML feature shall be enabled for GSM, UMTS, LTE, 5G and any future radio technologies.

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4.2.3. All handsets shall be preconfigure the following numbers as an emergency numbers as per the “National Numbering Plan Version 5.7”, Annex 1, Clause D:

Emergency Numbers:

0 + Y + 9 + 9 + X (5 digits): emergency services.

Where Y = 2 – 4; 6, 7 and 9; and

X= 1 & 2 Water and Electricity

X = 3 Municipality

X = 5 Search and Rescue

X = 6 Coast Guard

X = 7 Fire

X = 8 Ambulance

X = 9 Police

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:

https://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/red_en

6 Effective date

All handsets entering UAE shall be compliant with these specifications, effective from March 2024