



United Arab Emirates



TECHNICAL SPECIFICATION

Requirements for Connection to the Analogue PSTN Interface

Version 1.0

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Technical Specification, EMC and Safety Requirements, Version 1.0, Issued 16 Month 2006

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1. Scope

This specification lists the safety and Electromagnetic Compatibility requirements applicable to all radio and telecommunications terminal equipment intended to be used in the UAE.

2. 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:

ANSI	American National Standards Institute ¹
CENELEC	European Committee for Electro-technical Standardisation ²
CISPR	International Special Committee for Radio Interference ³
IEC	International Electro-technical Commission ⁴
ITU	International Telecommunications Union ⁵
ETSI	European Telecommunications Standards Institute ⁶

3. Technical Requirements

General

All equipment shall comply with TRA specification TS001 concerning safety and EMC performance.

¹ ANSI standards can be obtained from, <http://webstore.ansi.org>

² CENELEC standards can be obtained from, www.cenelec.org

³ CISPR standards can be obtained from, www.cenelec.org

⁴ IEC standards can be obtained from, www.iec.ch

⁵ ITU standards can be obtained from, www.itu.int

⁶ ETSI standards can be obtained from, www.etsi.org



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Specific

Unless stated otherwise below, the latest published versions of the following standards shall apply, as applicable to the interfaces supported by the terminal:

ETSI TBR 021 Terminal Equipment (TE); Attachment requirements for pan-European approval for connection to the analogue Public Switched Telephone Networks (PSTNs) of TE (excluding TE supporting the voice telephony service) in which network addressing, if provided, is by means of Dual Tone Multi Frequency (DTMF) signalling

Or

ETSI TS 103 021-1 Access and Terminals (AT); Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks (General aspects)

ETSI TS 103 021-2 Access and Terminals (AT); Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks (Basic transmission and protecting the network from harm)

ETSI TS 103 021-3 Access and Terminals (AT); Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks (Basic Interworking with public network)



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Additional requirements

Pulse Dialling

For products that offer Pulse or Loop Disconnect dialling, the requirements of ETSI ES 201 187 shall be applied, based on the following:

8 to 12 pulses per second

Make period 66+/-10ms

Break period 33+/-10ms

ETSI ES 201 187 2-wire analogue voice band interfaces; Loop Disconnect (LD) dialling specific requirements

Analogue Voice

Analogue telephones and other equipment which offer analogue handset telephony such as modems or fax machines should comply with the requirements of the following standard.

ETSI I-ETS 300 677 Public Switched Telephone Network (PSTN); Requirements for handset telephony

Volume control

Where a terminal is fitted with a receive volume control, the default position of the volume control should fall within the acceptable range of RLR described above.

Caller Line Identification (CLI)

Products which offer CLI should recognize DTMF signalling in accordance with the following standard:



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ETSI ES 201 235-3 Access and terminals (AT) specification of Dual –Tone Multi Frequency (DTMF) Transmitters and receivers; Part 3 Receivers.

Fixed Line Short Message Service (SMS)

Terminals offering the SMS feature must comply with the relevant parts of requirements of ETSI ES 201 912.

ETSI ES 201 912 Access and Terminals (AT); Short Message Service (SMS) for PSTN/ISDN; Short Message Communication between a fixed network Short Message Terminal Equipment and a Short Message Service Centre

ETSI TS 103 912 Access and Terminals (AT); Short Message Service (SMS) for PSTN/ISDN; Short Message Communication between a fixed network Short Message Terminal Equipment and a Short Message Service Centre (Corrections to ES 201 912 V1.1.1)

ETSI EN 300 659-2 Access and Terminals (AT); Analogue access to the Public Switched Telephone Network (PSTN); Subscriber line protocol over the local loop for display (and related) services; Part 2: Off-hook data transmission

ETSI ES 200 778-2 Access and Terminals (AT); Analogue access to the Public Switched Telephone Network (PSTN); Protocol over the local loop for display and related services; Terminal equipment requirements