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Elektromagnetna združljivost (EMC) in zadeve v zvezi z radijskim spektrom (ERM) - Prizemni letalski telefonski sistem (TFTS) - 3. del: Govorne storitve, omrežni vidiki

ElectroMagnetic Compatibility and Radio Spectrum Matters (ERM); Terrestrial Flight Telecommunications System (TFTS); Part 3: Speech services, network aspects

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Foreword

This second edition European Telecommunication Standard (ETS) has been produced by the Electromagnetic compatibility and Radio spectrum Matters (ERM) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This ETS has been split into three parts as follows:

Part 1: "Speech services, facilities and requirements";

Part 2: "Speech services, radio interface";

Part 3: "Speech services, network aspects".

Transposition dates	
Date of adoption of this ETS:	24 July 1998
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1 Scope

This European Telecommunication Standard (ETS) covers the specification of equipment for provision of a terrestrial Aeronautical Public Correspondence (APC) service working in the frequency spectrum bands allocated at World Administrative Radio Conference (WARC) 92 (1 670 to 1 675 MHz and 1 800 to 1 805 MHz). The ETS fully specifies aspects of the radio interface and Terrestrial Flight Telecommunication System (TFTS) Ground Network (GN) required to maintain interoperability of equipment. Within Europe European Radiocommunications Committee (ERC) Decision ERC/DEC (92)01 [13] is applicable to TFTS frequency spectrum.

The general architecture of the TFTS is considered in ETS 300 326-1 [1]. This part expands on that explanation to consider aspects of fixed network interworking. This part does not specify any specific signalling system for that purpose. It only specifies the functionality required for correct operation of the system.

Call handling and decision processes are specified. These should be used in conjunction with ETS 300 326-2 [2]. These explanations include the decision processes for the handover function.

Signalling requirement between Ground Switching Centres (GSCs) are specified for supporting inter-GSC handovers.

The TFTS Aircraft Station (AS) was specified by the European Airlines Electronics Committee (EAEC) and has subsequently been adopted as (ARINC) Characteristic 752 [14] by the Airlines Electrical Engineering Committee (AEEC). ARINC Characteristic 752 [14] makes reference to this ETS for specification of certain radio and telecommunication matters to avoid ambiguity. The TFTS AS is one of a set of facilities within an overall architecture being defined for aircraft on board telecommunications by the AEEC.

An Interim European Telecommunications Standard (I-ETS) is being produced which covers aspects of conformance testing for TFTS aircraft mobile stations. The specification of data application and facsimile will be the subject of a further (I-)ETS.

2 Normative references

This ETS incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication applies.

[1] ETS 300 326-1: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Terrestrial Flight Telecommunication System (TFTS); Part 1: Speech services, facilities and requirements".

[2] ETS 300 326-2: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Terrestrial Flight Telecommunication System (TFTS); Part 2: Speech services, radio interface".

[3] CCITT I-Series of Recommendations (I.500 - I.605).

[4] CCITT Recommendation E.164 (1997): "The international public telecommunication numbering plan".

[5] CCITT Recommendation E.163: "Numbering plan for the international telephone service".

[6] CCITT Recommendation I.112: "Vocabulary of terms for ISDNs".

[7] CCITT Recommendation I.310: "ISDN-Network functional principles".

[8] CCITT Recommendation X.25: "Interface between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for terminals operating in the packet mode and connected to public data networks by dedicated circuit".

[9] CCITT Recommendation X.1: "International user classes of service in, and categories of access to, public data networks and Integrated Services Digital Networks (ISDNs)".

[10] CCITT Recommendation X.121: "International numbering plan for public data networks".

[11] CCITT Recommendation X.200 (1988): "Reference model of open system interconnection for CCITT applications".

[12] CCITT Recommendation X.210 (11/93): "Open systems interconnection layer service definition".

[13] ERC Decision ERC/DEC (92)01: "Decision on the frequency bands to be designated for the coordinated introduction of the Terrestrial Flight Telecommunications System (TFTS)".

[14] ARINC Characteristic 752: "Terrestrial Flight Telephone System (TFTS) Airborne Radio Subsystem".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of this ETS, the following definitions apply:

(digital) connection: A concatenation of (digital) transmission channels or (digital) telecommunication circuits, switching and other functional units set up to provide for the transfer of (digital) signals between two or more points in a telecommunication network to support a single communication.

TFTS connection: A connection that is established through TFTS between specified TFTS reference points.

TFTS connection type: A description of a set of TFTS connections which have the same characteristics.

3.2 Abbreviations

For the purposes of this ETS, the following abbreviations apply:

AC	Administrative Centre
AEEC	Airlines Electrical Engineering Committee
AEN	Aircraft Equipment Number
APC	Aeronautical Public Correspondence
ARINC	Aeronautical Radio INCorporated
AS	Aircraft Station
ASI	Aircraft Station Identity
AT	Avionics Termination
ATE	Airborne Telecommunications Equipment
ATEI	Aircraft Termination Equipment Identifier
BCCH	Broadcast Control Channel
CC	Call Control
CCd	Country Code
CCM	Call Control Management
CCITT	Consultative Committee on International Telegraphy and Telephony
CEI	Content of Information Element
DCCH	Dedicated Control Channel

DDI	Direct Dial In
DTE	Data Terminal Equipment
DTMF	Dual Tone Multi-Frequency
EAEC	European Airlines Electronics Committee
FACCH	Fast Associated Control Channel
GCC	Ground switching Centre Code
GCT	Ground station Cell Type
GN	Ground Network
GS	Ground Station
GSC	Ground Switching Centre
GSIC	Ground Station Identity Code
GSN	Ground station Serial Number
GSS	Ground Station System
HRM	Handover Resource Management
HO	Handover
IEI	Information Element Identifier
INTGS	Intermediate Ground Station
ISDN	Integrated Services Digital Network
IWF	InterWorking Function
LI	Length Indicator
MF	Mandatory Fixed (information elements)
MR	Maintenance Resource
MRM	Maintenance Resource Management
MV	Mandatory Variable (information elements)
NMC	Network Management Centre
OF	Optional Fixed (information elements)
OM	Operations and Maintenance
OMC	Operations and Maintenance Centre
OSI	Open Systems Interconnection
OV	Optional Variable
PAD	Packet Assembler Disassembler
PDU	Protocol Data Unit
PSPDN	Packet Switched Public Data Network
PSTN	Public Switched Telephone Network
RF	Relay Function
RR	Radio Resource
RRM	Radio Resource Management
SABM	Set Asynchronous Balanced Mode
SACCH	Slow Associated Control Channel
SAP	Service Access Point
SDL	System Description Language
TCH	Traffic Channel
TDMA	Time Division Multiple Access
TE	Terminal Equipment
TFTS	Terrestrial Flight Telephone System
TI	Transaction Identifier
TRM	Terrestrial Resource Management
UA	Unnumbered Acknowledgement
WARC 92	World Administrative Radio Conference 1992
WOW	Weight On Wheels