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Radijska oprema in sistemi (RES) – Prizemni letalski telefonski sistem (TFTS) – 3. del: Govorne storitve, omrežni vidiki

Radio Equipment and Systems (RES); Terrestrial Flight Telecommunications System (TFTS); Part 3: Speech services, network aspects

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Contents

Foreword	9
1 Scope	11
2 Normative references	11
3 Definitions and abbreviations	12
3.1 Definitions	12
3.2 Abbreviations	12
4 TFTS network architecture	13
4.1 General	13
4.2 The functional entities of the TFTS	13
4.2.1 The Ground Station System (GSS)	13
4.2.2 The GSC	14
4.2.3 The GS	14
4.2.4 The Interworking Function (IWF)	14
4.2.5 The AS	14
4.3 Configuration of the TFTS network	14
4.3.1 General	14
4.3.2 Description of the TFTS configuration	15
4.4 TFTS network interfaces	16
4.4.1 General	16
4.4.2 Interface between the GSC and GSs (Ub)	16
4.4.3 Interface between AS and GS system (Ua)	16
4.5 Interfaces with the fixed networks	16
4.5.1 Interface between the GSC and the fixed networks	16
4.5.2 Scope of TFTS specification	16
4.6 Interfaces between AC, OMC and NMC, and the fixed networks	17
4.7 Network connection types	17
4.7.1 Introduction	17
4.7.2 General considerations	17
4.7.2.1 Relationship between lower layer capabilities and radio traffic channels	17
4.7.2.2 Lower layer capabilities	17
4.7.3 Framework for the description of connection types	17
4.7.3.1 Introduction	17
4.7.3.2 Purpose of TFTS connection types	18
4.7.3.3 Functions associated with TFTS connection	18
4.7.3.4 Applications of TFTS connection types	19
4.7.4 TFTS connection types	19
4.7.4.1 Description of TFTS connection types	19
4.7.4.2 TFTS connection elements	20
4.7.4.3 Rules of association for the attribute values of connection elements and connection types	20
4.7.4.3.1 Information transfer mode	20
4.7.4.3.2 Information transfer rate (kbits/s)	20
4.7.4.3.3 Information transfer susceptance	20
4.7.4.3.4 Establishment of connection	20
4.7.4.3.5 Symmetry	21
4.7.4.3.6 Connection configuration	21
4.7.4.3.7 Structure	21
4.7.4.3.8 Channels	21
4.7.4.3.8.1 Information channel (rate)	21
4.7.4.3.8.2 Signalling channel (rate)	21
4.7.4.3.9 Connection control protocol	21
4.7.4.3.10 Information transfer coding/protocol	21

	4.7.4.3.11	Further attributes and attribute values	22
	4.7.4.4	Limited set of TFTS connection types	22
4.7.5		Relationship between bearer and connection types	23
4.7.6		List of definitions of TFTS connection type attributes and their values	24
	4.7.6.1	Attribute definition and their values	24
	4.7.6.2	Definition of values	25
5		Fixed network interworking	25
5.1		Interworking requirements	25
	5.1.1	Interworking definition	25
	5.1.2	Interworking between networks	25
	5.1.2.1	Network interworking	25
	5.1.2.2	Service interworking	26
5.2		Network interworking traffic part	26
	5.2.1	General	26
	5.2.2	Definitions	26
	5.2.3	Traffic part introduction	27
	5.2.4	Network characteristics	27
	5.2.4.1	Key characteristics of networks concerned	27
	5.2.4.2	Characteristics of PSTNs	27
	5.2.4.3	Interworking classification	28
	5.2.4.3.1	Network interworking	28
	5.2.4.3.2	Signalling interworking	28
	5.2.4.3.3	Numbering	28
	5.2.5	Interworking to the PSTN/ISDN	29
	5.2.5.1	Interworking indications to TFTS terminals	29
	5.2.5.2	Transmission aspects	29
5.3		Interworking to the ISDN	29
6		Call handling and handover procedures	30
6.1		General	30
6.2		Handover criteria and resource allocation management	30
	6.2.1	General	30
	6.2.2	General handover decisions	30
	6.2.2.1	AS need for handover	30
	6.2.2.2	GS need for handover	30
	6.2.2.3	Handover decision point priority	31
	6.2.3	Handover strategy to be applied at AS	31
	6.2.4	Handover strategy to be applied at AS for cell boundary selection	31
	6.2.5	Alternative handover strategy to be applied at AS for cell boundary selection	31
	6.2.6	Conflict in signalling requirements	31
	6.2.7	Resource management strategy to be applied at the GS	32
	6.2.7.1	General requirements on GS resource management	32
	6.2.8	Handover failure actions due to lack of resources	33
	6.2.8.1	Handover failure action at the GS side due to lack of resources	33
	6.2.8.2	AS action on handover failure due to resource shortage	33
	6.2.8.2.1	Handover initiated due to poor link quality	33
	6.2.8.2.2	Handover initiated due to cell boundary	33
	6.2.8.2.3	Handover initiated due to physical condition	33
	6.2.9	General handover and cell selection issues	34
6.3		Call handling and handover management procedures	34
	6.3.1	General	34
	6.3.2	Call handling procedures	34
	6.3.2.1	General aspects	34
	6.3.2.2	Functional aspects for call handling	35
	6.3.2.2.1	AS functional entities	35
	6.3.2.2.2	GS functional entities	36
	6.3.2.2.3	GSC functional entities	36
	6.3.2.3	Call handling phases	36
	6.3.2.3.1	Resource set-up phase	37
	6.3.2.3.2	Call set-up phase	38

	6.3.2.3.3	Conversation phase	38
	6.3.2.3.4	Call release phase	38
	6.3.2.3.5	Resource Release phase	39
6.3.3	Handover procedures		39
	6.3.3.1	Handover decision	39
	6.3.3.1.1	Reasons for handover	39
	6.3.3.1.1.1	Reason for handover initiation on the AS side.....	39
	6.3.3.1.1.2	Reason for handover initiation on the GS side	39
	6.3.3.1.2	Strategy for Handover.....	40
6.3.3.2	Handover management		40
	6.3.3.2.1	Resource management	40
	6.3.3.2.2	Handover phase organisation	40
	6.3.3.2.2.1	Negotiation phase	40
	6.3.3.2.2.2	Execution phase	40
	6.3.3.2.2.3	Completion phase	41
	6.3.3.2.3	Failure procedures.....	41
6.3.3.3	Functional composition of TFTS stations		41
	6.3.3.3.1	AS functional composition for handover	42
	6.3.3.3.2	GS functional composition for handover	43
	6.3.3.3.2.1	Functional composition for handover between carriers of a GS	43
	6.3.3.3.2.2	Functional composition for a previous GS in handover between different GSs	44
	6.3.3.3.2.3	Functional composition for a new GS in handover between different GSs.	45
	6.3.3.3.3	GSC functional composition for handover	45
	6.3.3.3.3.1	GSC Signalling functions for handover between GSs of the same GSC	47
	6.3.3.3.3.2	Signalling functions for a GSC requesting handover	48
	6.3.3.3.3.3	Signalling functions for a handover requested GSC.....	49
	6.3.3.4	Handover general description.....	50
	6.3.3.4.1	Handover between channels of the GS.....	50
	6.3.3.4.1.1	General description of handover between channels of the GS.....	50
	6.3.3.4.1.2	Description of handover between channels of the GS	51
	6.3.3.4.1.3	Handover between GSs of the same GSC.....	52
	6.3.3.4.1.4	Description of handover between GSs of the same GSC ...	53
	6.3.3.4.2	Handover between GSs of different GSC.....	55
	6.3.3.4.2.1	General description of handover between GSs of different GSC	55
	6.3.3.4.2.2	Description for handover between GSs of different GSC	56
6.4	Network interworking handover part		58
	6.4.1	General.....	58
	6.4.2	TFTS/PSPDN interworking requirements	58
	6.4.3	TFTS/ISDN interworking requirements	59
	6.4.4	TFTS/PSTN interworking requirements	59
6.5	Handover part specification		59
	6.5.1	Introduction.....	59
	6.5.2	Interface presentation.....	59
	6.5.2.1	General	59
	6.5.2.2	Objectives	60
	6.5.2.3	General characteristics	61
	6.5.2.3.1	Technique of description.....	61
	6.5.2.3.2	Primitives	61
	6.5.2.3.3	Peer-to-peer communication	61
6.5.3	Structure of signalling functions		61

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	6.5.3.1	Basic groups of functions	61
	6.5.3.2	Protocol architecture	61
6.5.4		Services provided by handover signalling layer	63
	6.5.4.1	CC services	63
	6.5.4.2	MRM services	63
	6.5.4.3	HRM services	63
6.5.5		Services assumed from network layer	63
	6.5.5.1	General	63
	6.5.5.2	Service primitives	64
6.5.6		Inter-layer service interfaces	64
	6.5.6.1	Services provided by HRM entity	64
		6.5.6.1.1 General	64
		6.5.6.1.2 Service primitives	65
6.5.7		Functions to be provided by the handover layer entities	66
	6.5.7.1	Functions provided by the HRM entity	66
	6.5.7.2	Functions provided by the CCM entity	67
	6.5.7.3	Function provided by the RF	67
	6.5.7.4	Functions provided by the Distribution Function (DF)	67
	6.5.7.5	Functions provided by the MRM entity	67
6.5.8		Elementary procedures for HRM	67
	6.5.8.1	General	67
	6.5.8.2	Transport CM	67
	6.5.8.3	HRM	68
	6.5.8.4	Handover processing	68
		6.5.8.4.1 Outgoing handover procedure	68
		6.5.8.4.2 Incoming handover procedure	69
	6.5.8.5	Handover information transmission	69
	6.5.8.6	TCH release	69
	6.5.8.7	Data message transmission	70
6.5.9		Message functional definition and contents	70
	6.5.9.1	Messages for HRM	71
	6.5.9.2	Handover resource messages	71
	6.5.9.2.1	TCH release	71
	6.5.9.2.2	Release Confirm	72
	6.5.9.3	Handover messages between GSCs	72
		6.5.9.3.1 HO-Request	72
		6.5.9.3.2 HO-Confirm	72
		6.5.9.3.3 HO-Command	73
		6.5.9.3.4 HO-Complete	73
		6.5.9.3.5 HO-Reject	74
		6.5.9.3.6 HO-Failure	74
		6.5.9.3.7 HO-Information	74
	6.5.9.4	Miscellaneous messages	75
		6.5.9.4.1 Connect	75
		6.5.9.4.2 Disconnect	75
		6.5.9.4.3 CCM message transfer	75
		6.5.9.4.4 MRM message transfer	76
	6.5.9.5	Messages for MRM	76
6.5.10		Message format and information element coding	76
	6.5.10.1	Overview	76
	6.5.10.2	Message type	77
	6.5.10.3	Other information elements	77
		6.5.10.3.1 HRM information elements	81
		6.5.10.3.2 Handover procedure reference	81
		6.5.10.3.3 GS Identifier	82
		6.5.10.3.4 ATEI	82
		6.5.10.3.5 Handover resource identifier	83
		6.5.10.3.6 Handover resource description	83
		6.5.10.3.7 Handover call number	84
		6.5.10.3.8 Handover resource identifier list	85
		6.5.10.3.9 Handover characteristics	86
		6.5.10.3.10 Allocated frequency	86
		6.5.10.3.11 Allocated slots	87

	6.5.10.3.12	HRM Cause	87
	6.5.10.3.13	CCM data message	88
	6.5.10.3.14	MRM data message	89
6.5.11	Handling of error conditions		89
	6.5.11.1	Transport disconnect	89
	6.5.11.2	Release resource already released	89
	6.5.11.3	Unknown handover resource identifier	89
	6.5.11.4	Unknown handover reference	89
6.5.12	Handover diagrams		90
	6.5.12.1	Handover scenario diagrams	90
	6.5.12.1.1	Normal case	90
	6.5.12.1.2	Reject by Old-GSC	90
	6.5.12.1.3	Reject by New-GSC	91
	6.5.12.1.4	Reject by the New-GS	91
	6.5.12.1.5	Reject by the New-GSC after HO- CONFIRM	91
	6.5.12.1.6	Failure by the AS	92
	6.5.12.2	State diagram and System Description Language (SDL) of HRM	93
6.6	GSC - GSC isolation and restoration		102
	6.6.1	General	102
	6.6.2	Isolation	102
	6.6.3	Handover resource states	102
	6.6.3.1	Handover resource dynamic states	102
	6.6.3.2	Handover resource usage states	102
6.6.4	Restart procedure		103
	6.6.4.1	General restart procedure	103
	6.6.4.2	Handover resource dynamic state diagram	104
6.6.5	Handover Resource Maintenance		104
	6.6.5.1	Handover resource usage state modification procedure	104
	6.6.5.2	Handover resource usage state diagram	105
6.6.6	Messages functional definition and contents		105
	6.6.6.1	Restart message	105
	6.6.6.2	Restart acknowledge message	106
	6.6.6.3	Service message	106
	6.6.6.4	Service acknowledge message	106
6.6.7	Message format and information element coding		106
	6.6.7.1	General message format	107
	6.6.7.2	Message type	107
	6.6.7.3	Other information elements	108
	6.6.7.4	MRM transaction reference	108
	6.6.7.5	Handover resource identity and state	109
	History		110

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Radio Equipment and Systems (RES) 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".

Proposed transposition dates	
Date of adoption of this ETS:	26 May 1995
Date of latest announcement of this ETS (doa):	30 April 1996
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 October 1996
Date of withdrawal of any conflicting National Standard (dow):	31 October 1996

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1 Scope

This European Telecommunications 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 Aeronautical Public Correspondence (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 (1995): "Radio Equipment and Systems (RES); Terrestrial Flight Telephone System (TFTS); Part 1: Speech services, facilities and requirements".
- [2] ETS 300 326-2 (1995): "Radio Equipment and Systems (RES); Terrestrial Flight Telephone System (TFTS); Part 2: Speech services, radio aspects".
- [3] CCITT I-Series of Recommendations (I.500 - I.605).
- [4] CCITT Recommendation E.164 (1988): "Numbering plan for the ISDN era".
- [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 public data networks and integrated services digital networks".
- [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 (1988): "Open systems interconnection layer service definition".
- [13] ERC Decision ERC/DEC (92)01: "Definition of frequency bands for the Pan European terrestrial flight telephone 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
APGS	AirPort Ground Stations
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
C/No	Carrier / Noise density
CC	Call Control
CCd	Country Code
CCM	Call Control Management
CCITT	Consultative Committee on International Telegraphy and Telephony
CEI	Content of Information Element
CEPT	European Conference of Postal and Telecommunications Administrations
CM	Connection Management
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
IEI	Information Element Identifier
ISDN	Integrated Services Digital Network
IWF	InterWorking Function
LI	Length Indicator
MR	Maintenance Resource
MRM	Maintenance Resource Management
NMC	Network Management Centre
OM	Operations and Maintenance
OMC	Operations and Maintenance Centre
OSI	Open Systems Interconnection
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
SP	SPare
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

4 TFTS network architecture

4.1 General

The basic network architecture of the TFTS is described in ETS 300 326-1 [1]. The following subclauses elaborate some of the functions performed by the entities of the TFTS.

4.2 The functional entities of the TFTS

To provide the TFTS service it is necessary to define some specific functions. These functions may be implemented in, or gathered into, different equipments. In any case, exchanges of data occur between these functions.

4.2.1 The Ground Station System (GSS)

The radio equipment of a GSS (transceivers, controllers, etc.) may sustain one or more cells. A GSS may consist of one or more Ground Stations (GS). Where a GS-GSC interface is implemented, it shall consist of one GSC and several GSs.