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Digital Enhanced Cordless Telecommunications (DECT); DECT Packet Radio Service (DPRS)

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Contents

Intellectual Property Rights	11
Foreword.....	11
1 Scope	12
2 References	12
3 Definitions, symbols and abbreviations	14
3.1 Definitions	14
3.2 Symbols.....	15
3.3 Abbreviations	16
4 Description of services	18
4.1 Data services structure.....	18
4.2 Service objectives.....	19
4.3 Service definitions.....	20
4.3.1 PHL service definitions	20
4.3.2 MAC service definitions.....	20
4.3.3 DLC service definitions	21
4.3.4 NWK feature definitions.....	22
4.3.5 Application service definitions	24
4.3.6 Distributed Communication.....	24
4.3.7 Management Entity.....	24
4.4 General Class/Service/Interworking support.....	25
5 PHL requirements	25
5.1 General requirements	25
5.2 Modulation schemes.....	25
6 MAC layer requirements.....	26
6.1 MAC services.....	26
6.2 MAC service to procedure mapping.....	26
7 DLC-layer requirements.....	28
7.1 DLC services	28
7.2 DLC feature to procedure mapping.....	29
8 NWK layer requirements.....	30
8.1 NWK features.....	30
8.2 NWK feature to procedure mapping	31
8.3 Application features	34
8.4 Application feature to procedure mapping	34
8.5 Distributed Communications.....	34
9 Management Entity Requirements	35
9.1 Introduction	35
9.2 Description of the DPRS operation principles.....	35
9.2.1 General.....	35
9.2.2 Service class 1.....	35
9.2.3 Service class 2.....	36
9.3 Resource and physical connection management	36
9.3.1 Requirements applicable to the Fixed Part (FP)	36
9.3.1.1 Conditions for resumption and management procedures	36
9.3.1.1.1 General	36
9.3.1.1.2 ME procedures for FT initiated connection resumption	36
9.3.1.2 Connection Suspension conditions.....	37
9.3.1.2.1 General	37
9.3.1.2.2 Connection suspension due to no data activity	38
9.3.1.2.3 Connection suspension due to violation of the minimum number of bearers (MAC Bandwidth command).....	38

9.3.1.2.4	Connection suspension by loss of all received bearers	38
9.3.1.2.5	Activation of Fast Scan mode after Connection suspension	38
9.3.1.3	Conditions for Bandwidth modification	38
9.3.1.3.1	General	38
9.3.2	Requirements applicable to the Portable Part (PP)	38
9.3.2.1	Conditions for connection resumption	38
9.3.2.1.1	Procedure for PT initiated Connection resumption	39
9.3.2.1.2	"RFP-busy-for-data" flag	39
9.3.2.1.3	Waiting time for collision avoidance after deactivation of "RFP-busy-for-data" flag	39
9.3.2.1.4	Bandwidth after resumption	39
9.3.2.1.5	Resumption rejection by the FP	39
9.3.2.2	Conditions for Connection Suspension	39
9.3.2.2.1	General	39
9.3.2.2.2	Connection suspension due to no data activity	40
9.3.2.2.3	Connection suspension due to violation of the minimum number of bearers (MAC Bandwidth command)	40
9.3.2.2.4	Connection suspension by loss of all received bearers	40
9.3.2.2.5	Activation of fast scan mode after Connection suspension	40
9.3.2.3	Conditions for Bandwidth modification	40
9.3.2.3.1	General	40
9.4	Logical Connection management	40
9.4.1	Requirements for class 1 devices	41
9.4.2	Requirements for class 2 devices	41
9.4.2.1	General Description	41
9.4.2.2	Normal procedures of virtual call set-up and release	41
9.4.2.3	Abnormal release of Virtual Calls	41
9.4.2.4	Release of Logical Connection	41
9.4.3	The handshake (stay alive) procedure	41
10	MAC layer procedures	42
10.1	General	42
10.1.1	Frame and multiframe structure	42
10.1.2	Bit mappings	42
10.1.3	Time multiplexers	43
10.1.4	Scrambling	43
10.1.5	Error control	43
10.1.6	A-tail identifications	43
10.1.7	B-field identifications	43
10.1.8	RFP idle receiver scan sequence	43
10.1.9	PT receiver scan sequence	44
10.1.10	PP states and state transitions	44
10.1.11	Identities	44
10.2	Non continuous broadcast	44
10.2.1	Request for specific Q channel information	44
10.2.2	Request for a new dummy	44
10.3	Downlink broadcast	45
10.3.1	N _T messages	45
10.3.2	Q _T messages	45
10.3.2.1	Q _T - static system information	45
10.3.2.2	Q _T - FP capabilities	46
10.3.2.2.1	Standard FP Capabilities	46
10.3.2.2.2	Extended FP Capabilities	47
10.3.2.3	Q _T - SARI list contents	47
10.3.2.4	Multiframe number	47
10.4	Paging broadcast	48
10.4.1	Paging message formats	48
10.4.1.1	Long or full page message format	48
10.4.1.2	Short page message format	48
10.4.1.3	Zero length page message format	49
10.4.1.4	MAC resume page message format	49
10.4.1.5	MAC layer information in zero and short length paging messages	50
10.4.1.5.1	RFP status	50

10.4.2	MAC layer information messages procedures	51
10.4.2.1	Blind slot information for circuit mode service	51
10.4.2.2	Bearer handover/replacement information	51
10.4.2.3	Other bearer position	51
10.4.2.4	Recommended other bearer position	51
10.4.2.5	Dummy or C/L bearer position	51
10.4.2.6	C/L bearer position	51
10.4.2.7	RFP-status and Modulation Types	52
10.4.2.8	Blind slot information for packet mode service	52
10.4.3	Normal paging	52
10.4.4	Fast paging	52
10.4.5	Low duty cycle paging	52
10.4.6	MAC paging	52
10.5	Logical Connection Setup	52
10.6	Logical Connection Release	52
10.7	Connection Modification	53
10.7.1	Connection Modification to change bandwidth	53
10.7.1.1	Bandwidth negotiation	53
10.7.1.2	Bandwidth modification	55
10.7.1.3	Suspend	55
10.7.1.4	Resume	57
10.7.1.5	Bandwidth modification rejection	57
10.7.2	Connection modification to change service type	58
10.7.3	Connection modification to change the modulation scheme	58
10.7.4	ATTRIBUTES_T.req/cfm	59
10.8	Physical Connection Setup	59
10.8.1	Single bearer physical connection setup	59
10.8.2	Multibearer Physical Connection setup	59
10.9	Physical Connection Release	60
10.10	Bearer Setup	60
10.10.1	Single duplex bearer setup	60
10.10.1.1	PT initiated Single duplex bearer setup	61
10.10.1.2	FT initiated Single duplex bearer setup	61
10.10.1.3	Usage of channel list messages for single duplex bearer setup	62
10.10.2	Double simplex bearer setup	62
10.11	Bearer Release	64
10.11.1	Unacknowledged release	64
10.11.2	Acknowledged release	64
10.11.3	Fast release	65
10.12	Advanced connection handover	65
10.13	I channel operation	65
10.13.1	Protected I channel error_detect mode	65
10.13.2	Protected I channel error_correct mode	66
10.13.2.1	Unilateral jump	66
10.13.2.2	Bearer reset	66
10.13.3	Connectionless SI _p mode	66
10.14	C channel operation	66
10.14.1	C _s channel	66
10.14.2	C _F channel	67
10.15	Encryption	67
10.15.1	Encryption process - initialization and synchronization	67
10.15.2	Encryption mode control	68
10.15.2.1	M _T message	69
10.15.2.2	PT procedure for enabling encryption	69
10.15.2.3	PT procedure for disabling encryption	69
10.15.3	Handover encryption process	69
10.16	Quality control	69
10.16.1	RFPI handshake	69
10.16.2	PT frequency correction	69
10.16.3	Bearer quality report	70
10.16.4	Bearer and connection control	70
10.16.5	A-CRC handshake	71

10.17	Physical channel selection.....	71
10.18	Bearer replacement.....	71
10.19	Bearer handover request.....	71
10.20	G _F channel.....	72
10.20.1	G _F channel data.....	72
11	DLC layer procedures.....	72
11.1	LU10 Enhanced Frame RELay service (EFREL).....	72
11.1.1	Window size.....	72
11.1.2	U-plane transmission class 2.....	73
11.1.2.1	Sending side procedures.....	73
11.1.2.2	Receiving side procedure.....	73
11.2	FU 10 framing (FU10a, FU10b, FU10c).....	73
11.2.1	FU10a.....	73
11.2.2	FU10b.....	73
11.2.3	FU10c.....	74
11.3	Class A operation.....	74
11.3.1	Class A link establishment.....	74
11.3.1.1	Lower Layer Management Entity (LLME) establishment of a MAC connection.....	74
11.3.2	Class A acknowledged information transfer.....	76
11.3.3	Class A link release.....	76
11.3.4	Class A link re-establishment.....	76
11.4	Class U operation.....	76
11.4.1	Class U use of LLN for unacknowledged information transfer.....	77
11.4.2	Class U link establishment.....	77
11.4.3	Class U unacknowledged information transfer.....	77
11.4.4	Class U unacknowledged release.....	77
11.5	Lc frame delimiting and sequencing service.....	77
11.5.1	C _S channel fragmentation and recombination.....	77
11.5.2	C _F channel fragmentation and recombination.....	77
11.5.3	Selection of logical channels (C _S and C _F).....	77
11.6	Broadcast Lb service.....	77
11.6.1	Normal broadcast.....	77
11.6.2	Expedited broadcast.....	79
11.7	Connection handover.....	79
11.7.1	Class A connection handover.....	79
11.7.1.1	Voluntary handover.....	80
11.7.1.2	Associated procedure.....	80
11.7.1.2.1	LLME connection handover management.....	80
11.7.1.3	Exceptional case.....	80
11.7.1.3.1	Receipt of a request for link release.....	80
11.8	Connection modification.....	80
11.9	Encryption switching.....	82
11.9.1	Associated procedure.....	82
11.9.1.1	Providing Encryption key to the MAC layer.....	82
11.9.2	Exceptional cases.....	82
11.9.2.1	Encryption fails.....	82
11.9.2.2	Connection handover of ciphered connections.....	82
11.10	Connectionless point-to-multipoint transmission.....	82
12	NWK layer procedures.....	83
12.1	Outgoing call request.....	83
12.2	Incoming call request.....	83
12.3	Terminal capability indication.....	84
12.4	Internal call keypad.....	85
12.5	Call Resources/Parameters negotiation.....	85
12.5.1	Default values.....	92
12.5.2	Exceptional cases.....	94
12.6	Bandwidth Change.....	94
12.6.1	Associated procedures.....	97
12.6.1.1	Timer F/P < CC_service > management.....	97
12.6.2	Exceptional cases.....	97

12.6.2.1	Service change request is rejected.....	97
12.6.3	Examples	97
12.7	IWU-attributes change	98
12.8	Dynamic Parameters Allocation.....	99
12.8.1	Default Dynamic Parameters Allocation	103
12.9	Cipher-switching initiated by PT.....	103
12.10	Temporary Identity Assign.....	104
12.10.1	Associated procedures	104
12.10.1.1	Timer F-< MM_ident.1 > management.....	104
12.10.2	Exceptional cases.....	105
12.10.2.1	PT rejects the identity assignment.....	105
12.11	Indirect FT initiated link establishment.....	105
12.12	Fast paging	106
12.13	Collective and Group Ringing.....	106
12.14	Direct FT initiated link establishment	106
12.14.1	Exceptional case	108
12.14.1.1	Link establishment failure.....	108
12.15	LCE Resume Paging	108
12.16	Broadcast attributes management.....	109
12.17	U-plane handling	110
12.18	Management of MM procedures	111
12.19	Management - PMID.....	111
12.20	Length of NWK layer messages.....	111
12.21	Identities	111
12.22	Application media protocol support indication	111
13	Distributed Communications.....	112
13.1	Void.....	112
13.2	General Requirements	112
13.2.1	DCDL-net	112
13.2.2	Subscription	112
13.2.3	Communication.....	113
13.3	Procedure description.....	113
13.3.1	HyP Identities	113
13.3.2	Membership Access Rights Allocation.....	113
13.3.3	Re-initialization of membership access rights	113
13.3.4	Members Data Transfer	113
13.3.5	Presence/Absence Indication	113
13.3.6	Bandwidth management	113
13.3.7	Direct Link Establishment	113
13.3.8	Indirect Link Establishment.....	114
13.3.9	MASTER management.....	114
13.3.9.1	MASTER assign	114
13.3.9.2	MASTER Change	114
13.3.9.3	DCDL-net System bearer management.....	114
13.3.10	Common Subscription Database management.....	114
13.3.11	Handover issues	114
13.4	Elements of Messages/Information Elements	114
13.5	Usage of PPs or FPs in DCDL-net	114
Annex A (normative):	Operating parameters	115
A.1	ME operating parameters	115
A.1.1	Constants (applicable to class 1 and class 2 devices).....	115
A.1.2	Equations.....	115
A.1.2.1	Waiting time for collision avoidance (WtA).....	115
A.1.2.1.1	Description	115
A.1.2.1.2	Formula	115
A.1.2.2	Waiting time for congestion avoidance (WtB)	116
A.1.2.2.1	Description	116
A.1.2.2.2	Formula	116
A.1.3	Variable parameters (class 2 systems only).....	116
A.1.3.1	Parameters set by the FP (class 2 systems only).....	116

A.1.3.2	Negotiable parameters between FP and PP (class 2 systems only).....	117
A.1.3.2.1	Conditions of negotiation.....	117
A.2	Configuration capabilities for class 1 devices.....	118
Annex B (normative): Interworking conventions for the Frame Relay (FREL) service.....		119
B.1	Scope of this annex.....	119
B.1.1	Typical configuration for the Frame Relay service.....	119
B.2	Specific codings for mobility class 2.....	120
B.2.1	IWU-ATTRIBUTES information element coding.....	120
B.2.1.1	Profile subtype attributes (octet 6) of IWU-ATTRIBUTES information element.....	121
B.2.1.1.1	ISO/IEC 8802-3/Ethernet.....	121
B.2.1.1.2	ISO/IEC 8802-5 (Token-Ring).....	122
B.2.1.1.3	DECT Generic media encapsulation.....	122
B.2.2	IWU attributes implemented.....	123
B.3	Generic Frame Relay service interworking conventions.....	123
B.3.1	DLC U-plane service.....	123
B.3.2	Transmission bit order.....	123
B.3.3	Support of SDU size.....	123
B.3.4	SI _p connectionless downlink.....	123
B.4	ISO/IEC 8802-3/Ethernet.....	124
B.4.1	Typical configuration.....	124
B.4.1.1	Examples of implementation of the external transport network.....	124
B.4.2	Specific interworking conventions.....	124
B.4.2.1	Use of the connectionless downlink SI _p service.....	125
B.4.2.2	Special conventions for mobility class 1 systems.....	125
B.5	ISO/IEC 8802-5 (Token Ring).....	125
B.5.1	Typical configuration.....	125
B.5.1.1	Examples of implementation of the external transport network.....	126
B.5.2	Specific interworking conventions.....	126
B.5.2.1	Special conventions for mobility class 1 systems.....	126
B.5.2.2	Use of the connectionless downlink SI _p service.....	127
B.6	Internet protocol.....	127
B.6.1	Typical configuration.....	127
B.6.1.1	Examples of implementation of the external transport network.....	127
B.6.2	Specific interworking conventions.....	127
B.6.2.1	Special conventions for mobility class 1 systems.....	127
B.7	Point-to-Point Protocol.....	128
B.7.1	Typical configuration.....	128
B.7.1.1	Examples of implementation of the external transport network.....	128
B.7.2	Specific interworking conventions.....	128
B.7.2.1	Special conventions for mobility class 1 systems.....	128
B.8	Interworking conventions for DECT generic media encapsulation transport mechanism.....	128
B.8.1	General.....	128
B.8.2	Interworking Requirements.....	129
B.8.3	Application protocols implementation requirements.....	131
B.8.3.1	HTTP.....	131
B.8.3.2	Electronic mail.....	132
B.8.3.3	ODAP interworking.....	132
Annex C (normative): Interworking conventions character-oriented services.....		134
C.1	Scope.....	134
C.1.1	Scenario A.....	136
C.1.2	Scenario B.....	136
C.2	Specific coding for mobility class 2.....	137
C.2.1	IWU-Attribute coding.....	137

C.2.2	Default-values	139
C.2.3	Negotiation of the V.24-parameters	140
C.3	Generic interworking conventions	140
C.3.1	PAD functionality.....	140
C.3.1.1	Character formatting	140
C.3.2	Support of SDU size.....	141
C.4	V.24 circuits	141
C.4.1	General	141
C.4.2	Encapsulation	142
C.4.2.1	Description.....	142
C.4.2.2	Framing.....	142
C.4.2.3	Coding of encapsulation	142
C.4.2.3.1	DCE-emulation side interpretation.....	142
C.4.2.3.2	DTE-emulation side interpretation.....	143
C.4.2.4	SDU Structure.....	143
C.4.3	Interworking procedures and conventions.....	144
C.4.3.1	General.....	144
C.4.3.1.1	Data forwarding conditions	144
C.4.3.1.2	Dataflow Control.....	144
C.4.3.1.2.1	Software dataflow control	144
C.4.3.1.2.2	Hardware dataflow control	144
C.4.3.1.3	Transmission of U-plane data procedure.....	144
C.4.3.1.4	Receive of U-plane data procedure	144
C.4.3.1.5	V.24 signalling	145
C.4.3.1.6	Configuration a V.24 interface during a Connection	145
C.4.3.2	Fall back procedure.....	145
C.4.3.3	Procedure at the DCE-emulation side IWU.....	145
C.4.3.3.1	DTE-initiated VC establishment.....	145
C.4.3.3.2	DCE-initiated VC establishment.....	145
C.4.3.3.3	V.24 call release.....	146
C.4.3.4	Procedure at the DTE-emulation side IWU.....	146
C.4.3.4.1	DCE-initiated VC establishment.....	146
C.4.3.4.2	DTE-initiated VC establishment.....	146
C.4.3.4.3	V.24 call release.....	146
C.5	Definition of User Control Information Elements.....	146
C.5.1	Mandatory UIEs	146
C.5.2	Optional UIEs.....	147
C.5.3	Information Element Identifier.....	147
Annex D (normative):	Double slot support.....	148
D.1	General	148
D.2	Requirements.....	148
D.2.1	Frame structure and slot numbering	148
D.2.2	Multibearer connections	148
D.2.3	Modulation schemes.....	148
D.2.4	Connection Services	148
D.2.5	Bit MAPs.....	148
D.2.6	C-MUX	148
D.2.7	Scrambling	148
D.2.8	CRC.....	149
D.2.9	B-field type identification	149
D.2.10	Fixed Part capabilities	149
D.2.11	Portable Part capabilities	149
D.2.12	Blind slot information	149
D.2.13	Advanced connection control.....	149
D.2.14	C _F channel	149
D.2.15	Call establishment	149
D.2.16	Slot type modification during a call	149

Annex E (informative):	Bibliography.....	150
History		151

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[SIST EN 301 649 V1.4.1:2005](https://standards.iteh.ai/catalog/standards/sist/02632220-50e1-4427-bff5-25196be58bbf/sist-en-301-649-v1-4-1-2005)

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Foreword

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<https://standards.iteh.ai/catalog/standards/sist/02632220-50e1-4427-bff5-25196be58bbf/sist-en-301-649-v1-4-1-2005>

1 Scope

The present document defines the standard for packet radio services for Digital Enhanced Cordless Telecommunications (DECT) systems conforming to EN 300 175, parts 1 [1] to 7 [7]. It is the basis of profiles, which define more specific applications (Application Specific Access Profiles ASAPs), aimed at the connection of terminals supporting packet data services to a fixed infrastructure, both private and public.

The present document defines a basic service, with the service classes 1 or 2. Service class 1 provides for applications in closed user groups, whereas service class 2 is intended for use in private and public roaming applications.

The annexes to the present document contain the conventions for interworking of the frame-relay and character oriented services, as well as, other relevant information.

The present document defines the additional requirements on the Physical Layer (PHL), Medium Access Control (MAC) layer, Data Link Control (DLC) layer and Network (NWK) layer of DECT. The standard also specifies Management Entity (ME) requirements, which ensure the efficient use of the DECT spectrum.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

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| [1] | ETSI EN 300 175-1: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 1: Overview". |
| [2] | ETSI EN 300 175-2: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 2: Physical layer (PHL)". |
| [3] | ETSI EN 300 175-3: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 3: Medium Access Control (MAC) layer". |
| [4] | ETSI EN 300 175-4: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) layer". |
| [5] | ETSI EN 300 175-5: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) layer". |
| [6] | ETSI EN 300 175-6: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 6: Identities and addressing". |
| [7] | ETSI EN 300 175-7: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 7: Security features". |
| [8] | ETSI EN 300 444: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP)". |
| [9] | ETSI EN 300 824: "Digital Enhanced Cordless Telecommunications (DECT); Cordless Terminal Mobility (CTM); CTM Access Profile (CAP)". |

- [10] ISO/IEC 8802-3: "Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 3: Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications".
- [11] ISO/IEC 8802-5: "Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 5: Token ring access method and physical layer specifications".
- [12] IETF RFC 791 (1981): "Internet Protocol", J. Postel.
- [13] IETF RFC 1661 (1994): "The Point-to-Point Protocol (PPP)", W. Simpson.
- [14] IETF RFC 1662 (1994): "PPP in HDLC-like Framing", W. Simpson.
- [15] ITU-T Recommendation V.24 (2000): "List of definitions for interchange circuits between data terminal equipment (DTE) and data circuit-terminating equipment (DCE)".
- [16] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
- [17] IETF RFC 768: "User Datagram Protocol".
- [18] IETF RFC 793: "Transmission Control Protocol".
- [19] IETF RFC 1939: "Post Office Protocol - Version 3".
- [20] IETF RFC 2045: "Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies".
- [21] IETF RFC 2046: "Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types".
- [22] IETF RFC 2049: "Multipurpose Internet Mail Extensions (MIME) Part Five: Conformance Criteria and Examples".
- [23] IETF RFC 2326: "Real Time Streaming Protocol (RTSP)".
- [24] IETF RFC 2616: "Hypertext Transfer Protocol -- HTTP/1.1".
- [25] IETF RFC 2633: "S/MIME Version 3 Message Specification".
- [26] IETF RFC 2821: "Simple Mail Transfer Protocol".
- [27] IETF RFC 2822: "Internet Message Format".
- [28] IETF RFC 3261: "SIP: Session Initiation Protocol".
- [29] IETF RFC 3232: "Assigned Numbers".
- [30] IETF RFC 3550: "RTP: A Transport Protocol for Real-Time Applications".
- [31] Void.
- [32] ETSI TS 102 342: "Digital Enhanced Cordless Telecommunications (DECT); Cordless Multimedia Communication System; Open Data Access Profile (ODAP)".
- [33] ETSI TS 102 265: "Digital Enhanced Cordless Telecommunications (DECT); DECT Access to IP networks".