



SLOVENSKI STANDARD
SIST EN 300 175-4 V2.3.1:2010

01-oktober-2010

**Digitalne izboljšane brezvrvične telekomunikacije (DECT) - Skupni vmesnik (CI) - 4.
del: Plast krmiljenja podatkovnih povezav (DLC)**

Digital Enhanced Cordless Telecommunications (DECT) - Common Interface (CI) - Part
4: Data Link Control (DLC) layer

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Ta slovenski standard je istoveten z: **EN 300 175-4 Version 2.3.1**

SIST EN 300 175-4 V2.3.1:2010
<https://standards.iteh.ai/catalog/standards/sist/81db7895-262e-488d-a471f-9e251a497bb8/sist-en-300-175-4-v2-3-1-2010>

ICS:

33.070.30	Digitalne izboljšane brezvrvične telekomunikacije (DECT)	Digital Enhanced Cordless Telecommunications (DECT)
35.100.20	Podatkovni povezovalni sloj	Data link layer

SIST EN 300 175-4 V2.3.1:2010 **en**

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ETSI EN 300 175-4 V2.3.1 (2010-06)

European Standard (Telecommunications series)

Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) layer

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Reference

REN/DECT-000254-4

Keywords

DECT, IMT-2000, mobility, radio, TDD, TDMA**ETSI**

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Sous-Préfecture de Grasse (06) N° 7803/88

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SIST EN 300 175-4 V2.3.1:2010<https://standards.iteh.ai/catalog/standards/sist/81db7895-262e-488d-a471-9e251a497b1b/ETSI-EN-300-175-4-v2-3-1-2010>**Important notice**

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Contents

Intellectual Property Rights	11
Foreword.....	11
1 Scope	12
2 References	13
2.1 Normative references	13
2.2 Informative references.....	14
3 Definitions, symbols and abbreviations	14
3.1 Definitions.....	14
3.2 Symbols and abbreviations.....	14
4 Data Link Control (DLC) layer overview	16
4.1 General	16
4.2 C-plane services	17
4.3 U-plane services	18
4.4 Lower Layer Management Entity (LLME)	20
5 C-plane service characteristics	20
5.1 Data link service (LAPC+Lc).....	20
5.1.1 General.....	20
5.1.2 LAPC types of operation	21
5.1.3 Establishment of information transfer modes	21
5.1.3.1 Data Link Identifier (DLI)	21
5.1.3.2 LAPC states.....	21
5.2 Broadcast service (Lb).....	22
6 Frame structures for C-plane services.....	23
6.1 Data link service frame structure.....	23
6.1.1 General frame structure.....	23
6.1.2 Lc frame delimiting and transparency	24
6.1.3 Transmission order	24
6.1.4 Routing to logical channels.....	24
6.1.4.1 C _F /CL _F logical channel.....	24
6.1.4.2 C _S /CL _S logical channel.....	25
6.1.5 Invalid frames	25
6.2 Broadcast service frame structure.....	26
6.2.1 Standard frame structure	26
6.2.2 Extended frame structure	26
7 Elements of procedures and formats of fields for C-plane peer-to-peer communication.....	27
7.1 General	27
7.2 Address field formats	27
7.3 Address field parameters	27
7.3.1 REServed bit (RES).....	27
7.3.2 Command Response (C/R) bit	27
7.3.3 SAPI field	27
7.3.4 New Link Flag (NLF) bit.....	28
7.3.5 LLN-field.....	28
7.3.6 Data Link Identifiers (DLI).....	28
7.4 Control field formats	29
7.5 Control field parameters	29
7.5.1 Poll/Final (P/F) bit	29
7.5.2 Multiple frame operation variables and sequence numbers	29
7.5.2.1 Modulus	29
7.5.2.2 Send state Variable V(S).....	29
7.5.2.3 Acknowledge state Variable V(A)	30
7.5.2.4 Send sequence Number N(S)	30

7.5.2.5	Receive state Variable V(R).....	30
7.5.2.6	Receive sequence Number N(R).....	30
7.5.3	Unacknowledged operation variables and sequence numbers	30
7.5.4	Supervisory and Unnumbered function bits S and U.....	30
7.6	Length indicator field format.....	30
7.7	Length indicator field parameters.....	31
7.7.1	Length indicator field extension bit (N).....	31
7.7.2	More data bit (M).....	31
7.7.3	Length parameter (L _I)	31
7.7.4	Extended length parameter (L _{II})	32
7.7.5	Reserved bit (RES)	32
7.8	Fill field format	32
7.9	Checksum field format	32
7.10	Checksum field parameters	32
7.11	Commands and responses	34
7.11.1	Information (I) command.....	34
7.11.2	Receive Ready (RR) command/response.....	34
7.11.3	Receive Not Ready (RNR) command/response.....	35
7.11.4	REJect (REJ) command/response	35
7.11.5	Set Asynchronous Balanced Mode (SABM) command.....	35
7.11.6	Disconnect Mode (DM) response	35
7.11.7	Unnumbered Information (UI) command	35
7.11.8	DISConnect (DISC) command	36
7.11.9	Unnumbered ACK (UA) response.....	36
8	Primitives	36
8.1	Primitive types.....	36
8.2	Primitives to the MAC layer (lower layer).....	36
8.3	Primitives to the NWK layer (higher layer).....	36
8.3.1	Parameter definitions	37
8.3.2	S-SAP primitives	38
8.3.2.1	DL_ESTABLISH primitive.....	38
8.3.2.2	DL_RELEASE primitive.....	38
8.3.2.3	DL_DATA primitive.....	39
8.3.2.4	DL_UNIT_DATA primitive	39
8.3.2.5	DL_SUSPEND primitive	39
8.3.2.6	DL_RESUME primitive.....	39
8.3.2.7	DL_ENC_KEY primitive.....	40
8.3.2.8	DL_ENCRYPT primitive.....	40
8.3.2.9	DL_SERVICE_MOD primitive.....	40
8.3.3	B-SAP primitives.....	40
8.3.3.1	DL_BROADCAST primitive.....	41
8.3.3.2	DL_EXPEDITED primitive.....	41
8.4	Primitives to the interworking unit.....	41
8.4.1	Parameter definitions	41
8.4.2	LU _X -SAP primitives	42
8.4.2.1	DL_U_DATA primitive.....	42
8.4.2.2	DL_U_UNIT_DATA primitive	42
8.4.2.3	DL_U_ERROR primitive.....	42
9	C-plane peer-to-peer procedures	43
9.1	General	43
9.2	Point to point acknowledged operation	43
9.2.1	Procedure for the use of the P/F bit	43
9.2.1.1	Class A acknowledged information transfer	43
9.2.1.2	Class B acknowledged information transfer	44
9.2.2	Use of LLN	44
9.2.2.1	Class A operation	44
9.2.2.2	Class B operation	44
9.2.3	Link establishment and information transfer in class A operation.....	44
9.2.3.1	Establishing class A operation	44
9.2.3.2	Class A acknowledged information transfer	45

9.2.3.3	Transmission of class A I-frames	45
9.2.3.4	Reception of class A I-frames	46
9.2.3.5	Receiving acknowledgements	46
9.2.3.6	Waiting for acknowledgement	46
9.2.3.7	Release of class A operation	47
9.2.3.8	Re-establishment of class A operation	47
9.2.4	Establishing class B multiple frame operation	47
9.2.4.1	Overview	47
9.2.4.2	Class B multiple frame establishment procedures	48
9.2.4.3	Class B LLN assignment procedures	49
9.2.4.3.1	PT establishment	49
9.2.4.3.2	FT establishment	50
9.2.5	Link maintenance and information transfer in class B multiple frame operation	50
9.2.5.1	Transmitting I-frames	50
9.2.5.2	Receiving I-frames	51
9.2.5.2.1	P bit set to 1	51
9.2.5.2.2	P bit set to 0	51
9.2.5.3	Sending and receiving acknowledgements	51
9.2.5.3.1	Sending acknowledgements	51
9.2.5.3.2	Receiving acknowledgements	51
9.2.5.4	Receiving REJ-frames	52
9.2.5.5	Receiving RNR-frames	53
9.2.5.6	LAPC own receiver busy condition	54
9.2.5.7	Waiting acknowledgement	54
9.2.5.8	Appropriate supervisory frame	55
9.2.6	Release of class B multiple frame operation	55
9.2.7	Link suspension and resumption	56
9.2.7.1	Link suspension	56
9.2.7.1.1	Class B acknowledged suspend	56
9.2.7.1.2	Unacknowledged suspend	57
9.2.7.2	Class B link resumption	58
9.2.7.3	Connection handover	59
9.2.7.3.1	Class A connection handover	60
9.2.7.3.2	Class B connection handover	61
9.2.7.3.3	Expiry of connection handover timer	61
9.2.8	Re-establishment of class B multi-frame operation	61
9.2.8.1	Criteria for re-establishment	61
9.2.8.2	Procedure	62
9.2.9	Exception handling	62
9.2.9.1	General	62
9.2.9.2	Class B exception condition reporting and recovery	63
9.2.9.2.1	N(S) sequence error	63
9.2.9.2.2	N(R) sequence error	63
9.2.9.2.3	Timer recovery condition	63
9.2.9.2.4	Collision of identical transmitted and received commands	63
9.3	Unacknowledged operation	64
9.3.1	Use of LLN for unacknowledged information transfer	64
9.3.2	Class U link establishment	64
9.3.3	Unacknowledged information transfer	64
9.3.3.1	Transmission of unacknowledged information	64
9.3.3.2	Reception of unacknowledged information	64
9.3.4	Unacknowledged release	64
9.4	Broadcast operation	65
9.4.1	Normal operation	65
9.4.1.1	Procedure in the Fixed radio Termination (FT)	65
9.4.1.2	Procedure in the Portable radio Termination (PT)	65
9.4.2	Expedited operation	65
9.4.2.1	Procedure in the Fixed radio Termination (FT)	65
9.4.2.2	Procedure in the Portable radio Termination (PT)	65
9.5	MAC layer interfaces	66
9.5.1	MC-SAP	66
9.5.1.1	C-plane overview	66

9.5.1.2	C-plane service data procedures.....	66
9.5.1.3	U-plane service data.....	67
9.5.2	MB-SAP.....	67
9.5.2.1	C-plane service data procedures.....	67
9.5.2.2	U-plane service data.....	67
9.5.3	MA-SAP.....	68
9.5.3.1	Overview.....	68
9.5.3.2	Service data procedures.....	68
10	Management procedures.....	68
10.1	Lower Layer Management Entity (LLME).....	68
10.2	MAC connection management.....	69
10.2.1	MAC connection set-up.....	69
10.2.2	MAC connection release.....	69
10.2.3	MAC connection modification.....	69
10.2.4	MAC connection identifiers.....	70
10.2.4.1	Overview.....	70
10.2.4.2	Advanced MAC Connection Identifiers (AMCI).....	70
10.2.4.3	Basic MAC Connection Identifiers (BMCI).....	71
10.2.4.4	MAC Connection Endpoint Identifier (MCEI).....	71
10.2.5	Selection of logical channel (C _S or C _F).....	71
10.3	DLC C-plane (LAPC) management.....	72
10.3.1	Provision of link signature.....	72
10.3.2	Routing of connection oriented links.....	72
10.3.3	Routing of connectionless links.....	73
10.4	DLC U-plane (LUX) management.....	73
10.4.1	U-plane establishment.....	73
10.4.2	U-plane release.....	73
10.4.3	U-plane suspend and resume.....	73
10.5	Connection handover management.....	74
10.6	Ciphering management.....	74
10.6.1	Ciphering management in cases where the NWK layer executes the ciphering related MM procedure.....	74
10.6.1.1	Providing a key to the MAC layer.....	74
10.6.1.2	Starting and stopping the ciphering.....	75
10.6.1.3	Connection handover.....	75
10.6.2	Ciphering management in cases where the NWK layer does not execute the ciphering related MM procedure.....	75
10.7	Broadband data link management.....	75
11	U-plane service characteristics.....	76
11.1	General.....	76
11.2	LU1 TRansparent UnProtected service (TRUP).....	76
11.3	LU2 Frame RELay service (FREL).....	77
11.3.1	General.....	77
11.3.2	Checksum operation.....	78
11.3.3	Segmentation and transmission class.....	78
11.3.4	Data transmission.....	79
11.3.4.1	Send side procedure.....	79
11.3.4.2	Receive side procedure.....	79
11.4	LU3 Frame SWItching service (FSWI).....	80
11.5	LU4 Forward Error Correction (FEC) service.....	80
11.6	LU5 Basic RATE adaption service (BRAT).....	81
11.6.1	Overview.....	81
11.6.2	Protected service operation.....	82
11.6.2.1	General.....	82
11.6.2.2	Data buffering and initial rate adaptation.....	82
11.6.2.3	Multi-channel set multiplexing.....	83
11.6.2.4	Segmentation of Multiplexed Data Units (MDU).....	84
11.6.2.5	Frame sequencing and addition of control and fill octets.....	85
11.6.2.6	Frame transmission.....	86
11.6.3	Unprotected service operation.....	87
11.6.3.1	General.....	87

11.6.3.2	Data buffering and initial rate adaption.....	87
11.6.3.3	Multi-channel set multiplexing	87
11.6.3.4	Segmentation of MDUs.....	89
11.6.3.5	Frame transmission	89
11.7	LU6 Secondary RATE adaption (SRAT) service	89
11.7.1	General.....	89
11.8	LU16 ESCape Service (ESC).....	90
11.8.1	General.....	90
11.9	LU7 64 kbit/s data bearer service	91
11.9.1	General.....	91
11.9.2	Physical layer service.....	91
11.9.3	MAC layer service	91
11.9.4	DLC layer service	91
11.9.4.1	Architectural model.....	91
11.9.4.1.1	Transmit (Tx) frame buffering	92
11.9.4.1.2	Receive (Rx) frame buffering	92
11.9.4.2	Automatic-Repeat-Request (ARQ) and Forward Error Control (FEC).....	92
11.9.4.2.1	Control field	93
11.9.4.2.2	Information field.....	95
11.9.4.2.3	ARQ checksum.....	96
11.9.4.3	Procedures for normal operation	96
11.9.4.3.1	Establishment and synchronization procedures	96
11.9.4.3.2	Active phase	98
11.9.4.3.3	Release.....	100
11.9.4.4	Exceptional procedures	100
11.9.4.4.1	Invalid frame condition	100
11.9.4.4.2	Establishment.....	100
11.9.4.4.3	Transmitting frames.....	100
11.9.4.4.4	Receiving frames.....	100
11.9.4.4.5	Sending acknowledgements	101
11.9.4.4.6	Forwarding of received data	101
11.9.4.4.7	N(R) sequence error	101
11.9.4.4.8	N(O) sequence error	101
11.9.4.4.9	N(S) sequence error	102
11.9.4.4.10	Format error.....	102
11.9.4.4.11	Abnormal release.....	102
11.9.4.4.12	Implicit reset.....	102
11.9.5	Network layer service	102
11.9.5.1	LCE service.....	102
11.9.5.2	CC service.....	102
11.10	LU8 service	103
11.10.1	Physical layer service.....	103
11.10.2	MAC layer service	103
11.10.3	DLC layer service	103
11.11	LU9 - Unprotected Rate Adaption for V series Equipment (RAVE) Service	103
11.11.1	Overview	103
11.11.1.1	FU9 frame structure	104
11.11.1.1.1	General frame structure	104
11.11.1.1.2	FU9 buffering procedures.....	104
11.11.1.1.3	Connection handover.....	104
11.11.1.1.4	Transmission order	105
11.11.2	Alignment signal management	105
11.11.2.1	General	105
11.11.2.2	Procedures.....	105
11.11.3	V.24 Signalling	106
11.11.3.1	General	106
11.11.3.2	Transmitter procedures.....	107
11.11.3.3	Receiver procedures	107
11.11.4	Rate Coding	107
11.11.4.1	General	107
11.11.4.2	Transmitter procedures.....	108
11.11.4.3	Receiver procedures	108

11.11.5	DECT Independent Clocking (DIC)	109
11.11.5.1	General	109
11.11.5.2	Measurement of phase differences	109
11.11.5.3	Compensation control rules	110
11.11.5.3.1	General	110
11.11.5.3.2	Optimizing error resilience	110
11.11.6	Information field	111
11.11.6.1	General	111
11.11.6.2	User data rates	111
11.11.6.3	Information field filling rule	111
11.11.7	Primitives	112
11.12	LU10 Enhanced Frame RELay (EFREL) service	113
11.12.1	General	113
11.12.2	Segmentation and transmission class	114
11.12.3	Data transmission	114
11.12.3.1	Send side procedures	114
11.12.3.1.1	"Early transmission" option	114
11.12.3.2	Receive side procedure	115
11.12.3.2.1	Standard SDU delivery mode	115
11.12.3.2.2	In-sequence SDU delivery mode	115
11.12.3.2.3	PDU-in-sequence delivery mode	116
11.12.3.2.4	PDU-as-received delivery mode	116
11.12.4	SDU boundaries definition	116
11.12.4.1	Infinite SDU mode	116
11.13	LU11 service	116
11.13.1	Physical layer service	117
11.13.2	MAC layer service	117
11.13.3	DLC layer service	117
11.14	LU12 UNprotected Framed service (UNF)	117
11.14.1	General	117
11.14.2	DLC layer service	117
11.14.2.1	Segmentation	118
11.14.2.2	Data transmission	119
11.14.2.2.1	Send side procedure	119
11.14.2.2.2	Receive side procedure	119
12	Frame structures for U-plane services	120
12.1	General	120
12.2	FU1 frame structure	120
12.2.1	General frame structure	120
12.2.2	FU1 buffering procedures	121
12.2.3	Minimum delay (speech) operation	122
12.2.4	Connection handover	122
12.2.5	Transmission order	122
12.3	FU2 frame structure	123
12.3.1	General frame structure	123
12.3.2	FU2 buffering procedures	123
12.3.3	Connection handover	123
12.3.4	Transmission order	124
12.4	FU3 frame structure	124
12.4.1	General frame structure	124
12.4.2	FU3 buffering procedures	125
12.4.3	Connection handover	125
12.4.4	Transmission order	125
12.5	FU4 frame structure	125
12.5.1	General frame structure	125
12.5.2	FU4 buffering procedures	126
12.5.3	Connection handover	126
12.5.4	Transmission order	126
12.6	FU5 frame structure	127
12.6.1	General frame structure	127
12.6.2	FU5 buffering procedures	128

12.6.3	Connection handover	128
12.6.4	Transmission order	128
12.7	FU6 frame structure.....	128
12.7.1	General frame structure	128
12.7.2	FU6 buffering procedures.....	129
12.7.3	Connection handover	129
12.7.4	Transmission order	129
12.8	FU7 frame structure.....	129
12.9	FU8 frame structure.....	130
12.10	FU9 frame structure.....	130
12.11	FU10 frame structure.....	130
12.11.1	General frame structure	130
12.11.2	Transmission of FU10c frames.....	131
12.11.2.1	Insertion of the FU10c frame in an FU10a frame of the opposite link.....	132
12.11.2.2	Transmission of the F10c frame using the G_F channel.....	132
12.11.3	FU10 buffering procedures.....	132
12.11.4	Connection handover	132
12.11.5	Transmission order	133
12.12	FU12 frame structure.....	133
12.12.1	General frame structure	133
12.12.2	FU12 buffering procedures.....	133
12.12.3	Connection handover	134
12.12.4	Transmission order	134
13	Elements of procedures and formats of fields for U-plane peer-to-peer communication	134
13.1	General	134
13.2	Address elements.....	134
13.2.1	Address field format	134
13.2.2	Address field parameters	135
13.3	Length indicator elements	135
13.3.1	Length indicator field format.....	135
13.3.1.1	Length indicator field format for all services except LU10	135
13.3.1.2	Length indicator field format for service LU10.....	136
13.3.2	Length indicator field parameters.....	136
13.3.2.1	Length indicator field parameters for all services except LU10.....	136
13.3.2.2	Length indicator field parameters for LU10 service	137
13.3.2.2.1	Meaning of the more (M) bit	139
13.4	Sequence number elements	139
13.4.1	Send sequence number format	139
13.4.2	Send sequence number parameters	140
13.4.3	Receive sequence number format	140
13.4.4	Receive sequence number parameters	140
13.5	Fill elements - Fill field format	141
14	U-plane peer-to-peer procedures	141
14.1	General	141
14.2	Frame transmission principles.....	141
14.2.1	Sequence numbering.....	141
14.2.2	Acknowledgements.....	141
14.2.2.1	Sending acknowledgements	141
14.2.2.2	Receiving acknowledgements	142
14.2.3	Transmission classes.....	142
14.2.3.1	Class 0: No LU_X retransmission or sequencing.....	142
14.2.3.2	Class 1: no LU_X retransmission.....	143
14.2.3.3	Class 2: variable throughput, limited delay LU_X retransmission.....	143
14.2.3.4	Class 3: fixed throughput LU_X retransmission	143
14.2.4	Operation parameter negotiation.....	144
14.3	Frame transmission procedures	144
14.3.1	General.....	144
14.3.2	Class 0 procedures	144
14.3.2.1	Sending side procedure	144
14.3.2.2	Receiving side procedure	144

14.3.3	Class 1 procedures	145
14.3.3.1	Sending side procedure	145
14.3.3.2	Receiving side procedure	145
14.3.4	Class 2 procedures	146
14.3.4.1	Sending side procedure	146
14.3.4.1.1	Synchronization message sending side procedure (LU10)	147
14.3.4.1.2	Tx side end-of-activity rule	148
14.3.4.1.3	Abnormal SDU termination/abort signal (LU10 only)	148
14.3.4.2	Receiving side procedure	149
14.3.4.2.1	Acknowledgement procedure	149
14.3.4.2.2	Rx side end-of-activity rule	150
14.3.4.2.3	Retransmission request procedure	150
14.3.4.2.4	SDU delivery procedure	151
14.3.4.2.5	Synchronization message receiver side procedure (LU10)	151
14.3.4.2.6	Reception of an abnormal SDU termination/abort signal (LU10)	152
14.3.5	Class 3 procedures	152
14.3.5.1	Sending side procedure	152
14.3.5.2	Receiving side procedure	153
Annex A (normative): System parameters.....		154
A.1	LAPC timer values	154
A.2	U-plane timer values	155
A.3	Constants	155
A.3.1	Retransmission counter (N250)	155
A.3.2	Maximum number of CHO attempts (N251)	155
Annex B (normative): Checksum algorithms.....		156
B.1	Arithmetic conventions	156
B.2	Coding algorithm.....	156
B.3	Decoding algorithm.....	156
B.4	Some examples.....	157
Annex C (informative): MAC connection states.....		158
Annex D (normative): Mapping of agreed channel rates to MCS sizes		159
D.1	Protected class operation	159
D.2	Unprotected class operation	160
Annex E (normative): LU12 applications		161
E.1	G.729.1 over 32 kb/s channel.....	161
E.1.1	G.729.1 payload format.....	161
E.1.1.1	G.729.1 payload header coding	161
E.1.2	Operations	163
E.1.2.1	Encoder bit rate.....	163
E.1.2.2	Protection against random errors	164
Annex F (informative): Bibliography.....		165
Annex G (informative): Change history		166
History		167

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Digital Enhanced Cordless Telecommunications (DECT).

The present document is part 4 of a multi-part deliverable. Full details of the entire series can be found in part 1 [1].

Further details of the DECT system may be found in TR 101 178 [i.1] and ETR 043 [i.2].

National transposition dates	
Date of adoption of this EN:	7 June 2010
Date of latest announcement of this EN (doa):	30 September 2010
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 March 2011
Date of withdrawal of any conflicting National Standard (dow):	31 March 2011

1 Scope

The present document is one of the parts of the specification of the Digital Enhanced Cordless Telecommunications (DECT) Common Interface (CI).

The present document specifies the Data Link Control (DLC) layer. The DLC layer is part 4 of the DECT CI standard and layer 2b of the DECT protocol stack.

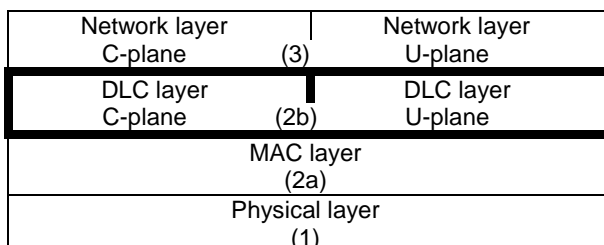


Figure 1.1

Two planes of operation are specified for this DLC (sub)layer. These planes are called the Control plane (C-plane) and the User plane (U-plane).

The C-plane is mostly concerned with the DECT signalling aspects. It provides a reliable point-to-point service that uses a link access protocol to offer error protected transmission of Network (NWK) layer messages. The C-plane also provides a separate point-to-multipoint (broadcast) service (Lb).

The U-plane is only concerned with end-to-end user information. This plane contains most of the application dependent procedures of DECT. Several alternative services (both circuit-mode and packet-mode) are defined as a family of independent entities. Each service provides one or more point-to-point U-plane data links, where the detailed characteristics of those links are determined by the particular needs of each service. The defined services cover a wide range of performance, from "unprotected with low delay" for speech applications to "highly protected with variable delay", for local area network applications.

NOTE: The performance of the DLC services need not be tight to any particular application. For example the "unprotected with low delay" service could also be used for data applications, e.g. if some data protection is provided outside the DECT protocol.

The present document uses the layered model principles and terminology as described in ITU-T Recommendations X.200 [14] and X.210 [15].

The present document includes New Generation DECT, a further development of the DECT standard introducing wideband speech, improved data services, new slot types and other technical enhancements.

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

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

NOTE: While any hyperlinks included in this clause were valid at the time of publication ETSI cannot guarantee their long term validity.

2.1 Normative references

The following referenced documents are necessary for the application of the present document.

- [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] Void.
- [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] Void.
- [8] ETSI EN 300 175-8: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 8: Speech and audio coding and transmission".
- [9] ETSI TS 144 006: "Digital cellular telecommunications system (Phase 2+); Mobile Station - Base Stations System (MS - BSS) interface Data Link (DL) layer specification (3GPP TS 44.006)".
- [10] ITU-T Recommendation Q.920: "ISDN user-network interface data link layer - General aspects".
- [11] ITU-T Recommendation Q.921: "ISDN user-network interface - Data link layer specification".
- [12] ITU-T Recommendation V.42: "Error-correcting procedures for DCEs using asynchronous-to-synchronous conversion".
- [13] ITU-T Recommendation V.110: "Support by an ISDN of data terminal equipments with V-Series type interfaces".
- [14] ITU-T Recommendation X.200: "Information technology - Open Systems Interconnection - Basic Reference Model: The basic model".
- [15] ITU-T Recommendation X.210: "Information technology - Open Systems Interconnection - Basic Reference Model: Conventions for the definition of OSI services".
- [16] ISO/IEC 8073: "Information technology - Open Systems Interconnection - Protocol for providing the connection-mode transport service".
- [17] ETSI EN 301 649: "Digital Enhanced Cordless Telecommunications (DECT); DECT Packet Radio Service (DPRS)".