



SLOVENSKI STANDARD
SIST ETS 300 133-3 E1:2003
01-december-2003

G]ghYa]'cgYVbY[U_`]WUfDGL'É'9 j fcdg_]g]ghYa 'nUfUX]g_c'gdcfc Ub'Y'fØFA9GL'É
' "XY. 'Ca fYyb]j]X_]]

Paging Systems (PS); Enhanced Radio MESSage System (ERMES); Part 3: Network aspects

iteh STANDARD PREVIEW
(standards.iteh.ai)

Ta slovenski standard je istoveten z: **ETS 300 133-3 Edition 1**
<https://standards.iteh.ai/catalog/standards/sist/c24c50ff-52bd-42e5-8054-e68f1c29cfd/sist-ets-300-133-3-e1-2003>

ICS:

33.070.20 Sistem za osebni klic Paging systems

SIST ETS 300 133-3 E1:2003 en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST ETS 300 133-3 E1:2003](https://standards.iteh.ai/catalog/standards/sist/c24c50ff-32bd-42e3-8034-e68ffc29cfd/sist-ets-300-133-3-e1-2003)

<https://standards.iteh.ai/catalog/standards/sist/c24c50ff-32bd-42e3-8034-e68ffc29cfd/sist-ets-300-133-3-e1-2003>



EUROPEAN
TELECOMMUNICATION
STANDARD

ETS 300 133-3

July 1992

Source: ETSI TC-PS

Reference: DE/PS-3001-3

ICS: 33.080

Key words: ERMES, Network aspects

iTeh STANDARD PREVIEW
(standards.iteh.ai)
Paging Systems;
European Radio Message System (ERMES)
Part 3: Network aspects

SIST ETS 300 133-3 E1:2003
<https://standards.iteh.ai/catalog/standards/sist-ets-300-133-3-e1-2003>
e68f1c29cfd/sist-ets-300-133-3-e1-2003

ETSI

European Telecommunications Standards Institute

ETSI Secretariat

Postal address: F-06921 Sophia Antipolis CEDEX - FRANCE

Office address: 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

X.400: c=fr, a=atlas, p=etsi, s=secretariat - **Internet:** secretariat@etsi.fr

Tel.: +33 92 94 42 00 - Fax: +33 93 65 47 16

Copyright Notification: No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 1992. All rights reserved.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST ETS 300 133-3 E1:2003](https://standards.iteh.ai/catalog/standards/sist/c24c50ff-32bd-42e3-8034-e68ffc29cfd/sist-ets-300-133-3-e1-2003)

<https://standards.iteh.ai/catalog/standards/sist/c24c50ff-32bd-42e3-8034-e68ffc29cfd/sist-ets-300-133-3-e1-2003>

Contents

Foreword	13
1 Scope	15
2 Normative references	15
3 Definitions.....	17
4 Abbreviations	20
5 System architecture.....	22
5.1 General.....	22
5.2 Telecommunication network part	22
5.2.1 Functional description of PNC.....	22
5.2.2 Functional description of PAC.....	22
5.2.3 Functional description of BS.....	23
5.3 General description of network interfaces	23
5.3.1 I6 interface	23
5.3.2 I5 interface	23
5.3.3 I4 interface	23
5.3.4 I3 interface	23
5.3.5 I2 interface	23
5.3.6 I1 interface	23
5.4 Operation & maintenance network part.....	23
5.5 General description of O&M interfaces.....	24
6 Numbering, addressing and identification.....	28
6.1 General.....	28
6.2 Addressing and numbering.....	29
6.2.1 Mobile subscriber.....	29
6.2.1.1 Individual.....	29
6.2.1.1.1 One-stage selection.....	29
6.2.1.1.2 Two-stage selection.....	29
6.2.1.2 Group.....	29
6.2.2 Fixed subscribers	30
6.3 Identification of network functional blocks.....	30
6.4 Service access	30
6.4.1 Service numbers	30
6.4.2 Supplementary service identification codes.....	30
7 Call processing	32
7.1 Call processing for page input.....	32
7.1.1 General principles	32
7.1.1.1 PNC-I processing	34
7.1.1.2 PNC-H processing	35
7.1.1.3 PNC-T processing	36
7.1.2 Supplementary services.....	36
7.1.2.1 General principle	36
7.1.2.2 Choice of destination.....	36
7.1.2.3 Repetition	36
7.1.2.4 Prioritisation	36
7.1.2.5 Multi-address	37
7.1.2.6 Urgent message indication.....	37
7.1.2.7 Deferred delivery.....	37

	7.1.2.8	Standard texts.....	37
	7.1.2.9	Reverse charging.....	37
	7.1.3	Subscriber features	37
	7.1.3.1	General principle.....	37
	7.1.3.2	Diversion.....	37
	7.1.3.3	Repetition.....	38
	7.1.3.4	Message storing.....	38
	7.1.3.5	Prioritisation	38
	7.1.3.6	Reverse charging.....	38
	7.1.3.7	Temporary barring.....	38
	7.1.3.8	Deferred delivery.....	38
	7.1.3.9	Encryption.....	39
	7.1.3.10	Roaming	39
	7.1.3.11	Group call	39
	7.1.3.12	Automatic retransmission of the last message number	40
	7.1.3.13	Legitimation of all calls.....	40
7.2		Call processing for access to subscriber features	40
	7.2.1	General principles.....	40
	7.2.2	Available to all calling parties.....	41
	7.2.2.1	Subscriber directory.....	41
	7.2.3	Available to fixed subscribers	41
	7.2.3.1	Address list management	41
	7.2.3.2	Editing of standard text	41
	7.2.3.3	Advice of accumulated call charges.....	41
	7.2.3.4	Password management.....	41
	7.2.3.5	Legitimation code management	42
	7.2.4	Available to mobile subscribers	42
	7.2.4.1	Roaming	42
	7.2.4.1.1	General principles.....	42
	7.2.4.1.2	PNC-I processing.....	42
	7.2.4.1.3	PNC-H processing.....	45
	7.2.4.2	Temporary barring.....	45
	7.2.4.3	Deferred delivery.....	46
	7.2.4.4	Call diversion.....	47
	7.2.4.5	Message retrieval	48
	7.2.4.6	Password management.....	48
	7.2.4.7	Legitimation code management	49
	7.2.4.8	All features reset	49
7.3		Call processing transaction time limits.....	50
8		Access methods.....	52
	8.1	General	52
	8.1.1	Generic protocol for non-interactive access mode.....	53
	8.1.2	Generic protocol for interactive access mode - two-stage selection.....	53
	8.1.2.1	Functional description of the protocol.....	53
	8.1.2.1.1	Common elements (for both service numbers).....	53
	8.1.2.1.2	Protocol via service number 1 (SN1).....	54
	8.1.2.1.3	Protocol via Service Number 2 (SN2).....	55
	8.1.2.2	System responses and acknowledgement	55
	8.1.2.2.1	General system messages	55
	8.1.2.2.2	Input prompts	56
	8.1.2.2.3	Input acknowledgements.....	58
	8.1.2.2.4	Help and guidance messages	58
	8.1.2.3	Input editing and typing error correction	59
	8.1.2.3.1	The escape command.....	59
	8.1.2.3.2	Other editing commands - terminals other than DTMF telephones	59
	8.1.2.4	Guidance to the calling party.....	59
	8.1.2.4.1	Help command.....	59
	8.1.2.4.2	Incomplete or interrupted input.....	59

	8.1.2.4.3	No input - time-out	60
	8.1.2.4.4	Invalid input	60
8.1.3		Generic protocol for interactive access mode - one-stage selection	60
	8.1.3.1	Functional description of the protocol	60
	8.1.3.1.1	Common elements	60
	8.1.3.1.2	The protocol	61
	8.1.3.2	System responses and acknowledgements	61
	8.1.3.2.1	General system message	61
	8.1.3.2.2	Input prompts	61
	8.1.3.2.3	Input acknowledgments	62
	8.1.3.2.4	Help and guidance messages	63
	8.1.3.3	Input editing and typing error correction	63
	8.1.3.3.1	The escape command	63
	8.1.3.3.2	Other editing commands - terminals other than DTMF telephones	63
	8.1.3.4	Guidance to the calling party	63
	8.1.3.4.1	Help command	64
	8.1.3.4.2	Incomplete or interrupted input	64
	8.1.3.4.3	No input - time-out	64
	8.1.3.4.4	Invalid input	64
	8.1.4	Character conversion	64
	8.1.5	Use of special characters	64
8.2		Access methods applicable to each service	65
	8.2.1	Basic services	65
	8.2.2	Supplementary services	65
	8.2.2.1	Page input related supplementary services	65
	8.2.2.2	Subscriber features	66
	8.2.2.2.1	Subscriber directory	66
	8.2.2.2.2	Fixed subscribers	66
	8.2.2.2.3	Mobile subscribers	66
8.3		Telephonic access methods	67
	8.3.1	General	67
	8.3.1.1	Input editing and typing error correction	67
	8.3.1.2	Invoking the characters in the numeric service	67
	8.3.1.3	Invoking the characters in the alphanumeric service	68
	8.3.1.4	Guidance to the calling party	69
	8.3.2	One-stage selection method	69
	8.3.2.1	Tone-only message input	69
	8.3.2.1.1	Functional description of the protocol	69
	8.3.2.2	Numeric message input	69
	8.3.2.2.1	Functional description of the protocol	69
	8.3.2.2.2	System responses and acknowledgements	70
	8.3.2.3	Alphanumeric service	70
	8.3.2.3.1	Functional description of the protocol	70
	8.3.2.3.2	System responses and acknowledgements	70
	8.3.2.4	Message input with supplementary services	71
	8.3.2.4.1	Functional description of the protocol	71
	8.3.2.4.2	System responses and acknowledgements	71
	8.3.2.4.3	Supplementary service sequences	71
	8.3.3	Two-stage selection method	72
	8.3.3.1	Tone-only message input	72
	8.3.3.1.1	Functional description of the protocol	72
	8.3.3.1.2	System responses and acknowledgements	72
	8.3.3.2	Numeric message input	73
	8.3.3.2.1	Functional description of the protocol	73
	8.3.3.2.2	System responses and acknowledgements	73
	8.3.3.3	Alphanumeric message input	73
	8.3.3.3.1	Functional description of the protocol	73
	8.3.3.3.2	System responses and acknowledgements	74
	8.3.3.4	Call input with supplementary services	74

	8.3.3.4.1	Functional description of the protocol.....	74
	8.3.3.4.2	System responses and acknowledgements.....	75
	8.3.3.4.3	Supplementary service sequences	75
	8.3.3.5	Subscriber features for fixed subscribers.....	76
	8.3.3.5.1	Functional description of the protocol.....	76
	8.3.3.6	Subscriber features for mobile subscribers	76
	8.3.3.6.1	Functional description of the protocol.....	76
	8.3.3.6.2	System responses and acknowledgements.....	77
	8.3.3.6.3	Subscriber feature control sequences.....	77
8.4		Alphanumeric terminal access methods.....	79
8.5		Telex access.....	79
	8.5.1	One-stage selection.....	79
	8.5.1.1	General.....	79
	8.5.1.2	Interactive mode.....	79
	8.5.1.2.1	Functional description of the protocol.....	79
	8.5.1.3	Non-interactive mode	79
	8.5.1.3.1	Functional description of the protocol.....	79
	8.5.2	Two-stage selection - interactive	79
	8.5.2.1	General.....	79
	8.5.2.1.1	System responses and acknowledgements.....	79
	8.5.2.1.2	Input editing and typing error correction.....	80
	8.5.2.1.3	Guidance to the calling party.....	80
	8.5.2.2	The protocol via SN1.....	80
	8.5.2.2.1	Interactive mode.....	80
	8.5.2.2.2	Fast interactive mode.....	80
	8.5.2.2.3	Call input related supplementary services	81
	8.5.2.2.3.1	Interactive mode.....	81
	8.5.2.2.3.2	Fast interactive mode.....	81
	8.5.2.3	The protocol via SN2.....	81
	8.5.2.3.1	Roaming interactive mode	81
	8.5.2.3.2	Roaming fast interactive mode.....	81
	8.5.3	Two-stage selection - non-interactive.....	82
	8.5.3.1	General.....	82
	8.5.3.2	The protocol via SN1.....	82
	8.5.3.2.1	Call input.....	82
	8.5.3.2.2	Call input related supplementary services	82
	8.5.3.3	The protocol via SN2.....	82
8.6		Message handling system access.....	83
	8.6.1	General	83
	8.6.2	ERMES access unit.....	83
	8.6.3	Structure of IP-message	83
	8.6.4	One-stage selection.....	84
	8.6.4.1	Operational procedures.....	84
	8.6.4.1.1	Basic IPM service.....	84
	8.6.4.1.2	IPM optional user facilities selectable on a per-message basis.....	85
	8.6.4.2	Call input.....	86
	8.6.4.3	Call input with supplementary services.....	87
	8.6.5	Two-stage selection	87
	8.6.5.1	Operational procedures.....	87
	8.6.5.2	Call input.....	88
	8.6.5.3	Call input with supplementary services.....	88
	8.6.5.4	Access to subscriber features.....	88
8.7		Bureau access	88
8.8		Videotex access method.....	88
	8.8.1	General	88
	8.8.2	Message page input	89
8.9		ISDN Access	89
	8.9.1	General	89
	8.9.2	One-stage selection.....	89

8.9.2.1	One-stage selection for tone-only service via ISDN	89
8.9.2.2	One-stage selection for numeric service via ISDN (UUS3)..	90
8.9.2.2	One-stage selection for numeric service via ISDN (UUS3)..	92
8.9.2.3	One-stage selection for alphanumeric service via ISDN (UUS3)	96
8.9.2.4	One-stage selection for numeric service via ISDN (UUS1)..	96
8.9.2.5	One-stage selection for alphanumeric service via ISDN (UUS1)	98
8.9.3	Two-stage selection access type.....	98
8.9.3.1	Two-stage selection for tone-only service via ISDN (UUS3)	98
8.9.3.2	Two-stage selection for numeric service via ISDN (UUS3)	101
8.9.3.3	Two-stage selection for alphanumeric service via ISDN (UUS3)	105
8.9.3.4	Two-stage selection for numeric service via ISDN (UUS1)	106
8.9.3.5	Two-stage selection for alphanumeric service via ISDN (UUS1)	107
9	I5 Interface.....	108
9.1	General.....	108
9.2	Universal computer protocol.....	108
9.2.1	Introduction.....	108
9.2.2	Operation and result.....	108
9.2.3	Data transaction sequence.....	108
9.2.4	Description of message format.....	109
9.2.4.1	General	109
9.2.4.2	Header	110
9.2.4.3	Data field	110
9.2.4.4	Checksum	110
9.2.5	Operations provided by the Universal Computer Interface.....	110
9.2.5.1	Enquiry operation.....	111
9.2.5.1.1	Enquiry operation (positive result)	111
9.2.5.1.2	Enquiry operation (negative result)	111
9.2.5.2	Call input operation	111
9.2.5.2.1	Call input operation (positive result).....	112
9.2.5.2.2	Call input operation (negative result).....	112
9.2.5.3	Multiple address call input operation.....	112
9.2.5.3.1	Multiple address call input operation (positive result)	113
9.2.5.3.2	Multiple address call input operation (negative result)	113
9.2.5.4	Call input with supplementary services operation	113
9.2.5.4.1	Call input with supplementary service operation (positive result)	114
9.2.5.4.2	Call input with supplementary information (negative result)	114
9.2.5.5	Address list information operation	114
9.2.5.5.1	Address list information operation (positive result).....	114
9.2.5.5.2	Address list information operation (negative result).....	115
9.2.5.6	Change address list operation	115
9.2.5.6.1	Change address list operation (positive result).....	115
9.2.5.6.2	Change address list operation (negative result).....	115
9.2.5.7	Advice of accumulated charges operation.....	115
9.2.5.7.1	Advice of accumulated charges operation (positive result)	115
9.2.5.7.2	Advice of accumulated charges operation (negative result)	116
9.2.5.8	Password management operation.....	116
9.2.5.8.1	Password management operation (positive result).....	116
9.2.5.8.2	Password management operation (negative result)	116
9.2.5.9	Legitimation code management operation.....	116
9.2.5.9.1	Legitimation code management operation (positive result)	116
9.2.5.9.2	Legitimation code management operation (negative result)	116

9.2.5.10	Standard text information operation.....	116
9.2.5.10.1	Standard text information operation (positive result).....	117
9.2.5.10.2	Standard text information operation (negative result)	117
9.2.5.11	Change standard text operation	117
9.2.5.11.1	Change standard text operation (positive result)	117
9.2.5.11.2	Change standard text operation (negative result).....	117
9.2.5.12	Request roaming information operation.....	117
9.2.5.12.1	Request roaming information operation (positive result) ...	118
9.2.5.12.2	Request roaming information operation (negative result) ..	118
9.2.5.13	Change roaming operation.....	118
9.2.5.13.1	Change roaming operation (positive result)	118
9.2.5.13.2	Change roaming operation (negative result)	118
9.2.5.14	Roaming reset operation	119
9.2.5.14.1	Roaming reset operation (positive result)	119
9.2.5.14.2	Roaming reset operation (negative result).....	119
9.2.5.15	Message retrieval operation	119
9.2.5.15.1	Message retrieval operation (positive result)	119
9.2.5.15.2	Message retrieval operation (negative result).....	119
9.2.5.16	Request call barring operation	120
9.2.5.16.1	Request call barring operation (positive result)	120
For	positive result parameters, see subclause 9.2.5.2.1.	120
9.2.5.16.2	Request call barring operation (negative result)	120
9.2.5.17	Cancel call barring operation.....	120
9.2.5.17.1	Cancel call barring operation (positive result)	120
9.2.5.17.2	Cancel call barring operation (negative result)	120
9.2.5.18	Request call diversion operation.....	120
9.2.5.18.1	Request call diversion operation (positive result)	120
9.2.5.18.2	Request call diversion operation (negative result)	121
9.2.5.19	Cancel call diversion operation.....	121
9.2.5.19.1	Cancel call diversion operation (positive result).....	121
9.2.5.19.2	Cancel call diversion operation (negative result)	121
9.2.5.20	Request deferred delivery	121
9.2.5.20.1	Request deferred delivery (positive result)	121
9.2.5.20.2	Request deferred delivery (negative result)	121
9.2.5.21	Cancel deferred delivery.....	121
9.2.5.21.1	Cancel deferred delivery (positive result)	122
9.2.5.21.2	Cancel deferred delivery (negative result)	122
9.2.5.22	All features reset operation.....	122
9.2.5.22.1	All features reset operation (positive result)	122
9.2.5.22.2	All features reset operation (negative result).....	122
9.2.6	Error codes.....	122
9.2.7	Error codes applicable to each operation	123
10	Network interworking (I4 interface)	124
10.1	General	124
10.2	Protocol stack for the I4 interface.....	124
10.2.1	Physical, link and network layers	124
10.2.2	Transport layer.....	124
10.2.3	Session layer	124
10.2.4	Presentation layer	125
10.2.5	Application layer.....	125
10.2.5.1	ACSE	125
10.2.5.2	ROSE.....	125
10.2.5.3	Other application entities	125
10.3	PNC operations.....	125
10.3.1	Introduction	125
10.3.2	Description of operations	126
10.3.2.1	General.....	126
10.3.2.2	Pager information	126
10.3.2.3	Page request.....	126

	10.3.2.4	Transmit	126
	10.3.2.5	Choice of destination.....	126
	10.3.2.6	Roaming validation.....	126
	10.3.2.7	Roaming reset.....	126
	10.3.2.8	Roaming information	126
	10.3.2.9	Change roaming	126
	10.3.2.10	Confirm change of roaming.....	126
	10.3.2.11	Call diversion start	126
	10.3.2.12	Call diversion stop	126
	10.3.3	Use of operations	127
10.4		Use of ACSE	128
10.5		Use of ROSE.....	129
10.6		PNC addressing.....	131
	10.6.1	PNC network address.....	131
	10.6.2	PNC layer 4,5,6 and application addresses	131
11		I3 interface	132
	11.1	General description	132
	11.2	Functional description	132
	11.2.1	List of functional messages	132
	11.2.1.1	Paging data transfer, individual call	132
	11.2.1.2	Paging data transfer, group call.....	132
	11.2.1.3	Operation and maintenance messages.....	133
12		PAC to BS interface (I2 interface)	134
	12.1	General aspects and principles	134
	12.2	Layer 1	134
	12.3	Layer 2	134
	12.4	Layer 3	134
	12.5	Layer 4 (fragmentation)	134
	12.5.1	General	134
	12.5.2	Fragmentation header	134
	12.5.3	Description	135
	12.6	Layer 7 (Application)	135
	12.6.1	General	135
	12.6.2	Data processing.....	135
	12.6.3	Application header.....	136
	12.6.4	Transaction data	137
	12.6.4.1	General	137
	12.6.4.2	Page request transaction	137
	12.6.4.2.1	Page request operation.....	137
	12.6.4.2.2	Page request result	139
	12.6.4.3	BS time reference transaction.....	139
	12.6.4.3.1	BS time reference operation.....	139
	12.6.4.3.2	BS time reference result.....	140
	12.6.4.4	Status request transaction.....	140
	12.6.4.4.1	Status request operation	140
	12.6.4.4.2	Status request result.....	141
	12.6.4.5	Control command transaction	142
	12.6.4.5.1	Control command operation.....	142
	12.6.4.5.2	Control command result	144
	12.6.4.6	Poll request transaction.....	145
	12.6.4.6.1	Poll request operation.....	145
	12.6.4.6.2	Poll request result.....	145
	12.6.4.7	Report request transaction	146
	12.6.4.7.1	Report request operation	146
	12.6.4.7.2	Report request result	148
13		Paging network controller specification.....	150
	13.1	PNC functional description	150

13.2	Database specifications	150
13.2.1	Mobile subscriber AdC-records database	150
13.2.2	Mobile subscriber RIC-message database	152
13.2.3	Fixed subscriber records database	152
13.2.4	Group database for group calls	152
13.2.5	Closed user group database	154
13.2.6	System addressing database	154
13.2.6.1	PNC/PNC addressing	154
13.2.6.2	PNC/OMC addressing	154
13.2.6.3	PNC/PAC addressing	154
13.2.7	System configuration database	154
13.2.8	System status database	155
13.2.9	Geographical area database	155
13.3	Management of the I5 interface	155
13.3.1	Configuration	155
13.3.2	Processing of fault situations	155
13.3.3	Processing of O&M data	156
13.4	Management of the I4 interface	156
13.4.1	Control of I4 passwords	156
13.5	Management of the I3 interface	156
13.6	Call acceptance principles and calculation	156
13.6.1	General principles	156
13.6.2	Definition of terms	157
13.6.3	State detection and parameter calculation	159
13.6.4	Availability and delay evaluation	160
13.6.4.1	Availability evaluation involving only paging areas	160
13.6.4.2	Availability evaluation involving only geographical areas	160
13.6.4.3	Availability evaluation involving paging and geographical areas	161
13.6.4.4	Delay evaluation involving only paging areas	161
13.6.4.5	Delay evaluation involving only geographical areas	161
13.6.4.6	Delay evaluation involving both paging and geographical areas	161
13.7	Universal time reference	161
13.8	Translation of national character sets to the ERMES character set	162
13.9	Encryption	162
13.10	Transparent data calls	162
13.11	Call queuing	162
14	Paging area controller	164
14.1	General description	164
14.2	PAC architecture	164
14.2.1	Management of the paging area in a time division environment	165
14.3	Input section (I3 interface)	165
14.4	Output section (I2 interface)	166
14.5	Control section	166
14.5.1	Functional implementation	168
14.5.2	Input control	169
14.5.3	Output control	170
14.5.4	Allocation process	170
14.5.5	Example of call processing	171
14.5.5.1	Control parameters	171
14.5.5.2	Queueing procedure	172
14.6	Database	173
14.6.1	PAC traffic database in the control section	173
Annex A (normative):	Incompatible combinations of supplementary services	176
Annex B (normative):	SDL diagrams for call processing and I4 operations	179

B.1	General	179
B.2	Call processing for page input	180
B.3	Call processing for roaming.....	201
B.4	Call processing for call diversion.....	212
Annex C (informative):	List of access methods.....	213
Annex D (normative):	SDL diagrams for interactive access mode	215
D.1	General	215
D.2	For page input.....	215
D.3	For subscriber features.....	215
Annex E (normative):	PNC I4 ROSE operations	244
E.1	General	244
E.1.1	Pager information operation	244
E.1.1.1	Pager information operation - positive result	244
E.1.1.2	Pager information operation - negative result parameters	247
E.1.2	Choice of destination operation	247
E.1.2.1	Choice of destination operation (positive result)	248
E.1.2.2	Choice of destination operation (negative result)	248
E.1.3	Page request operation	248
E.1.3.1	Page request operation (positive result)	249
E.1.3.2	Page request operation (negative result)	249
E.1.4	Transmit operation	250
E.1.4.1	Transmit operation (positive result)	252
E.1.4.2	Transmit operation (negative result)	252
E.1.5	Roaming validation operation.....	252
E.1.5.1	Roaming validation operation (positive result)	252
E.1.5.2	Roaming validation operation (negative result)	252
E.1.6	Roaming reset operation.....	252
E.1.6.1	Roaming reset operation (positive result)	253
E.1.6.2	Roaming reset operation (negative result)	253
E.1.7	Roaming information operation	253
E.1.7.1	Roaming information operation (positive result).....	253
E.1.7.2	Roaming information operation (negative result).....	254
E.1.8	Change roaming operation	254
E.1.8.1	Change roaming operation (positive result).....	254
E.1.8.2	Change roaming operation (negative result).....	255
E.1.9	Confirm change of roaming operation.....	255
E.1.9.1	Confirm change of roaming operation (positive result)	256
E.1.9.2	Confirm change of roaming operation (Negative result).....	256
E.1.10	Call diversion start operation.....	257
E.1.10.1	Call diversion start operation (positive result).....	257
E.1.10.2	Call diversion start operation (negative result).....	257
E.1.11	Call Diversion stop operation.....	257
E.1.11.1	Call diversion stop operation (positive result)	257
E.1.11.2	Call diversion stop operation (negative result).....	258
E.2	Negative result parameters common to all operations.....	258
Annex F (normative):	PNC I4 ROSE ASN.1 transcription	259
F.1	General.....	259

F.2 Operation types ASN.1 specification	259
Annex G (informative): Typical I6 dialogues for the input of calls	269
History	278

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST ETS 300 133-3 E1:2003

<https://standards.iteh.ai/catalog/standards/sist/c24c50ff-32bd-42e3-8034-e68f1c29cfd/sist-ets-300-133-3-e1-2003>

Foreword

This European Telecommunication Standard (ETS) has been produced by the Paging Systems (PS) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This ETS comprises seven parts with the generic title "Paging Systems (PS); European Radio Message System (ERMES)". The title of each part is listed below:

- ETS 300 133-1: "Part 1: General aspects"
- ETS 300 133-2: "Part 2: Service aspects"
- ETS 300 133-3: "Part 3: Network aspects"
- ETS 300 133-4: "Part 4: Air interface specification"
- ETS 300 133-5: "Part 5: Receiver conformance specification"
- ETS 300 133-6: "Part 6: Base station specification"
- ETS 300 133-7: "Part 7: Operation and maintenance aspects"

This part, ETS 300 133-3, gives a system architecture description of the European Radio Message System (ERMES), including the numbering, addressing and identification of subscribers together with call processing. This part also gives specifications for:

- methods of access to the ERMES system;
- internal interfaces within the ERMES system;
- the paging network controller;
- the paging area controller.

ITeK STANDARD PREVIEW

(standards.itek.ai)

SIST ETS 300 133-3 E1:2003

[https://standards.itek.ai/catalog/standards/sist/c24c50ff-32bd-42e3-8034-](https://standards.itek.ai/catalog/standards/sist/c24c50ff-32bd-42e3-8034-6681fc29cfd/sist-ets-300-133-3-e1-2003)

[6681fc29cfd/sist-ets-300-133-3-e1-2003](https://standards.itek.ai/catalog/standards/sist/c24c50ff-32bd-42e3-8034-6681fc29cfd/sist-ets-300-133-3-e1-2003)