SLOVENSKI STANDARD
SIST ETS 300 392-3-5 E1:2003

01-december-2003

Prizemni snopovni radio (TETRA) - Govor in podatki (V+D) - 3. del: Medsebojno delovanje na medsistemskem vmesniku (ISI) - 5. poddel: Dodatna omrežna funkcija: upravljanje mobilnosti (ANF-ISIMM)

Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 3: Interworking at the Inter-System Interface (ISI); Sub-part 5: Additional Network Feature for Mobility Management (ANF-ISIMM)

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST ETS 300 392-3-5 E1:2003
https://standards.iteh.ai/catalog/standards/sist/fb585ec6-8f6d-4f65-8cf3-e5edbe9f14af/sist-ets-300-392-3-5-e1-2003

Ta slovenski standard je istoveten z: **ETS 300 392-3-5 Edition 1**

ICS:

33.070.10	Prizemni snopovni radio (TETRA)	Terrestrial Trunked Radio (TETRA)

SIST ETS 300 392-3-5 E1:2003 **en**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

SIST ETS 300 392-3-5 E1:2003

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST ETS 300 392-3-5 E1:2003
https://standards.iteh.ai/catalog/standards/sist/fb585ec6-8f6d-4f65-8cf3-e5edbe9f14af/sist-ets-300-392-3-5-e1-2003

SIST ETS 300 392-3-5 E1:2003

EUROPEAN TELECOMMUNICATION STANDARD

ETS 300 392-3-5

January 2000

Source: TETRA

Reference: DE/TETRA-03001-03-5

ICS: 33.020

Key words: radio, interworking, management, mobility, TETRA, V+D

Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 3: Interworking at the Inter-System Interface (ISI); Sub-part 5: Additional Network Feature for Mobility Management (ANF-ISIMM)

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST ETS 300 392-3-5 E1:2003
https://standards.iteh.ai/catalog/standards/sist/e5edbe9f-14af-4f6e-8f0b-e5edbe9f14af/sist-ets-300-392-3-5-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
Internet: secretariat@etsi.fr - http://www.etsi.org

Tel.: +33 4 92 94 42 00 - Fax: +33 4 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 2000. All rights reserved.

SIST ETS 300 392-3-5 E1:2003

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST ETS 300 392-3-5 E1:2003
https://standards.iteh.ai/catalog/standards/sist/fb585ec6-8f6d-4f65-8cf3-e5edbe9f14af/sist-ets-300-392-3-5-e1-2003

Whilst every care has been taken in the preparation and publication of this document, errors in content, typographical or otherwise, may occur. If you have comments concerning its accuracy, please write to "ETSI Standards Making Support Dept." at the address shown on the title page.

SIST ETS 300 392-3-5 E1:2003

Contents

Foreword 15

1 Scope 17

2 References 18

3 Definitions and abbreviations 19
3.1 Definitions 19
3.2 Abbreviations 21

4 Overview 22
4.1 General 22
4.2 Applicability 22
4.2.1 Entities 22
4.2.2 Services 22
4.3 Testability 23
4.4 Provision/withdrawal 23
4.5 Activation/deactivation 23
4.6 Charging 24

5 The generic ANF-ISIMM stage 1 service model 24
5.1 ANF-ISIMM - the service provider 24
5.2 SwMI MMs - the ANF-ISIMM service users 24
5.3 Stage 1 description conventions 25

6 Migration service description (stage 1) 26
6.1 Pre-requisite requirements for the migration service 26
6.2 Service definition 26
6.3 Service description 26
6.4 Service architecture 27
6.5 Normal procedures 27
6.5.1 Invocation 27
6.5.1.1 Invocation criteria 27
6.5.1.2 Invocation of ANF-ISIMM 28
6.5.2 Operation 30
6.5.2.1 Migration with pre-defined migration profile(s) 30
6.5.2.1.1 Support for call restoration 31
6.5.2.1.2 Final migration approval 31
6.5.2.2 Migration with migration profile exchange 32
6.5.2.2.1 Basic migration profile exchange 33
6.5.2.2.2 SS-migration profile(s) exchange 42
6.5.2.2.3 Support for call restoration 45
6.5.2.2.4 Final migration approval 45
6.5.2.2.5 SS-migration profile exchange after final migration approval 45
6.6 Exceptional procedures 46
6.6.1 Detected by the visited SwMI MM 47
6.6.2 Detected by the home SwMI MM 48
6.7 Interactions 48
6.7.1 Interactions with the authentication service 48
6.7.2 Interactions with the group attachment and the group detachment services 48
6.8 Dynamic description 49

7 Restricted migration service description (stage 1) 53
7.1 Pre-requisite requirements for the restricted migration service 53
7.2 Service definition 53

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST ETS 300 392-3-5 E1:2003
https://standards.iteh.ai/catalog/standards/sist/fb585ec6-8f6d-4f65-8cf3-e5edbe9f14af/sist-ets-300-392-3-5-e1-2003

SIST ETS 300 392-3-5 E1:2003

7.3 Service description 53
7.4 Service architecture 54
7.5 Normal procedures 54
7.5.1 Invocation 54
7.5.1.1 Invocation criteria 54
7.5.1.2 Invocation of ANF-ISIMM 55
7.5.2 Operation 58
7.5.2.1 Operation when the visited SwMI MM invokes restricted migration 58
7.5.2.2 Invocation of RSI 59
7.5.2.3 Support for emergency call restoration 59
7.5.2.4 Receipt of restricted migration approval 59
7.6 Exceptional procedures 60
7.6.1 Detected by the visited SwMI MM 61
7.6.2 Detected by the home SwMI MM 61
7.7 Interactions 61
7.7.1 Interactions with the authentication service 61
7.7.2 Interactions with the group attachment and the group detachment services 61
7.8 Dynamic description 61

8 Removal of Subscriber Information (RSI) service description (stage 1) 63
8.1 Service definition 63
8.2 Service description 63
8.3 Service architecture 64
8.4 Normal procedures 64
8.4.1 Invocation 64
8.4.1.1 Invocation criteria 64
8.4.1.2 Invocation of ANF-ISIMM 65
8.4.2 Operation 66
8.5 Exceptional procedures 67
8.6 Interaction with authentication 68
8.7 Dynamic description 68

9 De-registration service description (stage 1) 69
9.1 Service definition 69
9.2 Service description 70
9.3 Service architecture 70
9.4 Normal procedures 70
9.4.1 Invocation 70
9.4.1.1 Invocation criteria 70
9.4.1.2 Invocation of ANF-ISIMM 71
9.4.2 Operation 71
9.5 Exceptional procedures 72
9.5.1 Detected by the visited SwMI MM 73
9.5.2 Detected by the home SwMI MM 73
9.6 Dynamic description 73

10 Profile update service description (stage 1) 75
10.1 Service definition 75
10.2 Service description 75
10.3 Service architecture 75
10.4 Normal procedures 75
10.4.1 Invocation 75
10.4.1.1 Invocation criteria 75
10.4.1.2 Invocation of ANF-ISIMM 76
10.4.2 Operation 85
10.5 Exceptional operation 95
10.6 Dynamic description 95

11 SS-profile update service description (stage 1) 96
11.1 Service definition 96
11.2 Service description 97

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST ETS 300 392-3-5 E1:2003
https://standards.iteh.ai/catalog/standards/sist/fb585ec6-8f6d-4f65-8cf3-e3edbe9f14af/sist-ets-300-392-3-5-e1-2003

SIST ETS 300 392-3-5 E1:2003

11.3 Service architecture 97
11.4 Normal procedures 97
11.4.1 Invocation 97
11.4.1.1 Invocation criteria....97
11.4.1.2 Invocation of ANF-ISIMM....98
11.4.2 Operation....98
11.4.2.1 Creation of temporary SS-migration profiles....98
11.4.2.2 Informing home SwMI MM about the temporary SS-migration profiles 99
11.5 Exceptional operation....101
11.6 Dynamic description....101

12 Authentication service description (stage 1)....103
12.1 Pre-requisite requirements for the authentication service 103
12.2 Service definition....103
12.3 Service description....103
12.4 Service architecture 104
12.5 Normal procedures 104
12.5.1 Invocation 104
12.5.1.1 Invocation criteria....104
12.5.1.2 Invocation of ANF-ISIMM....105
12.5.2 Operation....105
12.5.2.1 Exchange of authentication parameters 106
12.5.2.2 Sending of authentication result 106
12.6 Exceptional procedures 107
12.6.1 Detected by the visited SwMI MM 108
12.6.2 Detected by the home SwMI MM 108
12.7 Interaction with migration and restricted migration 109
12.7.1 Normal operation....109
12.7.2 Exceptional procedures....109
12.8 Dynamic description....110

13 Over The Air Re-keying (OTAR) service description (stage 1) 111
13.1 Pre-requisite requirements....111
13.2 Service definition....111
13.3 Service description....111
13.4 Service architecture 112
13.5 Normal procedures 113
13.5.1 Invocation 113
13.5.1.1 Invocation criteria....113
13.5.1.2 Invocation of ANF-ISIMM....113
13.5.1.2.1 Case 1) 113
13.5.1.2.2 Case 2) 114
13.5.1.2.3 Case 3) 114
13.5.1.2.4 Case 4) 115
13.5.2 Operation....115
13.5.2.1 Case 1) 115
13.5.2.2 Case 2) 116
13.5.2.3 Case 3) 117
13.5.2.4 Case 4) 118
13.6 Exceptional procedures 118
13.6.1 Detected by the visited SwMI MM 120
13.6.2 Detected by the home SwMI MM 120
13.7 Dynamic description....120

14 Individual subscriber Database Recovery (IDR) service description (stage 1) 122
14.1 Service definition....122
14.2 Service description....122
14.3 Service architecture 123
14.4 Normal procedures 124
14.4.1 Invocation 124
14.4.1.1 Invocation criteria....124
14.4.1.2 Invocation of ANF-ISIMM....124

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST ETS 300 392-3-5 E1:2003
https://standards.iteh.ai/catalog/standards/sist/fb585ec6-8f6d-4f65-8cf3-c5cabe9f14af/sist-ets-300-392-3-5-e1-2003

SIST ETS 300 392-3-5 E1:2003

14.4.2 Operation 126
14.4.2.1 The visited SwMI MM receives the HMM recovery indication 126
14.4.2.1A The home SwMI MM receives the VMM recovery indication 127
14.4.2.2 The virtual migration or restricted migration 127
14.4.2.3 The virtual RSI 128
14.4.2.4 The iteration 128
14.4.2.5 The completion of the IDR 128
14.4.2.5.1 VMM recovery 128
14.4.2.5.2 HMM recovery 129
14.5 Exceptional procedures 129
14.6 Dynamic description 130

15 Group attachment service description (stage 1) 134
15.1 Service definition 134
15.2 Service description 134
15.3 Service architecture 135
15.4 Normal procedures 135
15.4.1 Invocation 135
15.4.1.1 Invocation criteria 135
15.4.1.2 Invocation of ANF-ISIMM 136
15.4.1.2.1 Case 1) 136
15.4.1.2.2 Cases 2) - 4) 138
15.4.1.2.3 Case 5) 139
15.4.1.2.4 Case 6) 144
15.4.2 Operation 145
15.4.2.1 Case 1) 145
15.4.2.1.1 Group attachment with pre-defined migration profile(s) 145
15.4.2.1.2 Group attachment with migration profile exchange 147
15.4.2.1.3 SS-migration profile(s) exchange 152
15.4.2.2 Cases 2) - 4) 156
15.4.2.2.1 Updates to G-HDB 156
15.4.2.2.2 Sending of group attachment approval 156
15.4.2.2.3 Receipt of group attachment approval 156
15.4.2.3 Case 5) 157
15.4.2.3.1 Home SwMI MM initiated group attachment with pre-defined migration profile(s) 157
15.4.2.3.2 Home SwMI MM initiated group attachment with migration profile exchange 158
15.5 Exceptional procedures 161
15.5.1 Detected by the visited SwMI MM 163
15.5.2 Detected by the home SwMI MM 164
15.6 Interactions 164
15.7 Dynamic description 165

16 Group detachment service description (stage 1) 168
16.1 Service definition 168
16.2 Service description 169
16.3 Service architecture 170
16.4 Normal procedures 170
16.4.1 Invocation 170
16.4.1.1 Invocation criteria 170
16.4.1.2 Invocation of ANF-ISIMM 171
16.4.1.2.1 Cases 1) - 3) 171
16.4.1.2.2 Case 4) 172
16.4.2 Operation 172
16.4.2.1 Cases 1) - 3) 172
16.4.2.2 Case 4) 173

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST ETS 300 392-3-5 E1:2003
https://standards.iteh.ai/catalog/standards/sist/fb585ac6-8f6d-4f65-8e13-e5edbe5f14ff/sist-ets-300-392-3-5-e1-2003

SIST ETS 300 392-3-5 E1:2003

16.5 Exceptional procedures 174
16.6 Interactions 176
16.7 Dynamic description 177

17 Group Database Recovery (GDR) service description (stage 1) 178
17.1 Service definition 178
17.2 Service description 178
17.3 Service architecture 179
17.4 Normal procedures 180
17.4.1 Invocation 180
17.4.1.1 Invocation criteria 180
17.4.1.2 Invocation of ANF-ISIMM 180
17.4.2 Operation 181
17.4.2.1 Verification of age information 182
17.4.2.2 The visited SwMI MM receives the G-HDR indication 182
17.4.2.3 The home SwMI MM receives the G-VDR indication 183
17.4.2.4 The virtual group attachment and detachment 183
17.4.2.5 The iteration 184
17.4.2.6 The completion of the GDR 185
17.4.2.6.1 G-HDR 185
17.4.2.6.2 G-VDR 185
17.5 Exceptional procedures 186
17.6 Dynamic description 187

18 Group linking/unlinking service description (stage 1) 190
18.1 Service definition 190
18.2 Service description 190
18.3 Service architecture 192
18.4 Normal procedures 192
18.4.1 Invocation 192
18.4.1.1 Invocation criteria 192
18.4.1.2 Invocation of ANF-ISIMM 193
18.4.1.2.1 Case 1) - group linking service 193
18.4.1.2.2 Case 2) - group unlinking service 194
18.4.1.2.3 Case 3) - remote group unlinking service 194
18.4.2 Operation 194
18.4.2.1 Case 1) - group linking service 194
18.4.2.1.1 First phase of group linking service 194
18.4.2.1.2 Second phase of group linking service 195
18.4.2.2 Case 2) - group unlinking service 196
18.4.2.3 Case 3) - remote group unlinking service 197
18.5 Exceptional procedures 197
18.5.1 Case 1) - group linking service 197
18.5.2 Case 2) - group unlinking service 199
18.5.3 Case 3) - remote group unlinking service 199
18.6 Interactions 200
18.7 Dynamic description 200

19 ANF-ISIMM stage 2 specification 204
19.1 General 204
19.2 Functional model 204
19.3 Information flow diagrams 205

20 Migration - stage 2 information flow sequences 206
20.1 Normal operation 206
20.1.1 Migration with pre-defined profile(s) 206
20.1.2 Migration with basic migration profile exchange 207
20.1.3 Migration with basic migration and SS-migration profiles exchange 208
20.1.3.1 SS-migration profiles exchanged before final migration approval 208
20.1.3.2 SS-migration profiles exchanged after final migration approval 210

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST ETS 300 392-3-5 E1:2003
https://standards.iteh.ai/catalog/standards/sist/fb585ec6-8d0f-4f03-8d3f-e5edbe9f14af/sist-ets-300-392-3-5-e1-2003

SIST ETS 300 392-3-5 E1:2003

20.2 Exceptional operation 212
20.2.1 Migration rejection request upon receipt of the Migration_ind 212
20.2.2 Migration rejection request upon receipt of Profile update_conf and SS-profile update_conf 213
20.3 FE actions for subscriber migration 214
20.3.1 FE actions of FE1 214
20.3.2 FE actions of FE3 215

21 Restricted migration - stage 2 information flow sequences 216
21.1 Normal operation 216
21.1.1 Restricted migration requested by visited SwMI MM 216
21.1.2 Restricted migration requested by home SwMI upon receipt of MIGRATION_ind from the visited SwMI MM 216
21.1.3 Restricted migration requested by home SwMI MM upon receipt of PROFILE UPDATE_ind (and possibly SS-PROFILE UPDATE_ind) from the visited SwMI MM 216
21.2 Exceptional operation 217
21.3 FE actions for restricted migration 217
21.3.1 FE actions of FE1 217
21.3.2 FE actions of FE3 217

22 Removal of Subscriber Information - stage 2 information flow sequences 218
22.1 Normal operation 218
22.2 Exceptional operation 219
22.3 FE actions for subscriber migration 219
22.3.1 FE actions of FE1 219
22.3.2 FE actions of FE4 219

23 De-registration - stage 2 information flow sequences 220
23.1 Normal operation 220
23.1.1 Visited SwMI MM initiated de-registration 220
23.1.2 Home SwMI MM initiated de-registration 221
23.2 Exceptional operation 222
23.2.1 Visited SwMI MM initiated de-registration rejected 222
23.2.2 Home SwMI MM initiated de-registration rejected 223
23.3 FE actions 223
23.3.1 FE actions of FE1 223
23.3.2 FE actions of FE3 224

24 Profile update - stage 2 information flow sequences 225
24.1 Normal operation 225
24.2 Profile update rejection 226
24.3 FE actions for Profile update 226
24.3.1 FE actions of FE1 226
24.3.2 FE actions of FE3 226

25 SS-profile update - stage 2 information flow sequences 227
25.1 Normal operation 227
25.2 SS-profile update rejection 228
25.3 FE actions for SS-profile update 228
25.3.1 FE actions of FE1 228
25.3.2 FE actions of FE3 228

26 Authentication - stage 2 information flow sequences 229
26.1 Normal operation 229
26.1.1 Authentication 229
26.1.2 Successful subsequent authentication 230
26.2 Authentication invoked in conjunction with migration 231
26.3 Exceptional operation 233
26.3.1 Authentication rejection in the visited SwMI 233
26.4 FE actions for authentication 234
26.4.1 FE actions of FE1 234
26.4.2 FE actions of FE3 235

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST ETS 300 392-3-5 E1:2003
https://standards.iteh.ai/catalog/standards/sist/0f5f63c9-5fec-4f65-8ef3-c5edbc9f14af/sist-ets-300-392-3-5-e1-2003

SIST ETS 300 392-3-5 E1:2003

27 Over The Air Re-keying (OTAR) - stage 2 information flow sequences....236
27.1 Normal operation....236
27.1.1 OTAR SCK generation service....236
27.1.2 Visited SwMI MM initiated OTAR SCK delivery service....237
27.1.3 Home SwMI MM initiated OTAR SCK delivery service....238
27.1.4 OTAR SCK generation service, subsequent use of parameters....239
27.2 Exceptional operation....240
27.2.1 Failed OTAR SCK generation service....240
27.2.2 Failed visited SwMI MM initiated OTAR SCK delivery....241
27.2.3 Failed home SwMI MM initiated OTAR SCK delivery....242
27.2.4 Failed subsequent use of OTAR SCK generation parameters....243
27.3 FE actions for OTAR....243
27.3.1 FE actions of FE1....243
27.3.2 FE actions of FE3....244

28 Individual subscriber database recovery - stage 2 information flow sequences....245
28.1 Normal operation....245
28.1.1 HMM recovery....245
28.1.2 VMM recovery....248
28.2 Exceptional operation....251
28.2.1 Rejection of HMM recovery....251
28.2.2 Rejection of VMM recovery....252
28.3 FE actions....252
28.3.1 FE actions of FE1....252
28.3.2 FE actions of FE3....253
28.3.3 FE actions of FE4....253

29 Group attachment - stage 2 information flow sequences....254
29.1 Normal operation....254
29.1.1 Visited SwMI MM initiated group attachment without migration profile exchange....254
29.1.2 Visited SwMI MM initiated first group attachment with migration profile exchange....255
29.1.3 Home SwMI MM initiated group attachment without migration profile exchange....257
29.1.4 Home SwMI MM initiated group attachment with migration profile exchange....258
29.2 Exceptional operation....260
29.2.1 Rejection of visited SwMI MM initiated group attachment without migration profile exchange....260
29.2.2 Rejection of home SwMI MM initiated group attachment with migration profile exchange....261
29.2.3 Rejection of home SwMI MM initiated group attachment without migration profile exchange....262
29.2.4 Rejection of home SwMI MM initiated group attachment with migration profile exchange, rejected by subscriber....263
29.3 FE actions....264
29.3.1 FE actions of FE2....264
29.3.2 FE actions of FE3....265

30 Normal operation for group detachment - stage 2 information flow sequences....266
30.1 Normal operation....266
30.1.1 Visited SwMI MM initiated group detachment....266
30.1.2 Home SwMI MM initiated group detachment....267
30.2 Exceptional operation....268
30.2.1 Rejection of visited SwMI MM initiated group detachment....268
30.2.2 Rejection of home SwMI MM initiated group detachment rejection....269
30.3 FE actions....269
30.3.1 FE actions of FE2....269
30.3.2 FE actions of FE3....270

31 Group database recovery - stage 2 information flow sequences....271
31.1 Normal operation....271

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST ETS 300 392-3-5 E1:2003
https://standards.iteh.ai/catalog/standards/sist/4b588ce0-8f0d-4f65-8ef5-c5edbe5f4af/sist-ets-300-392-3-5-e1-2003

SIST ETS 300 392-3-5 E1:2003

31.1.1 G-HDR 271
31.1.2 G-VDR 274
31.2 Exceptional operation 277
31.2.1 Rejection of G-HDR 277
31.2.2 Rejection of G-VDR 278
31.3 FE actions 278
31.3.1 FE actions of FE2 278
31.3.2 FE actions of FE3 279

32 Group linking/unlinking - stage 2 information flow scenarios 279
32.1 Normal operation 279
32.1.1 Group linking 279
32.1.2 Group unlinking 279
32.1.3 Remote group unlinking 279
32.2 Exceptional operation - group linking rejected by participating SwMI 280
32.3 FE actions 280
32.3.1 FE actions of FE5 280
32.3.2 FE actions of FE6 280

33 Definition of stage 2 information flows 280
33.1 AUTHENTICATION DEMAND 280
33.2 AUTHENTICATION RESPONSE 281
33.3 AUTHENTICATION RESULT 281
33.4 AUTH REJECT 281
33.5 DE-REGISTRATION 282
33.6 DE-REG REJECT 282
33.7 GROUP ATTACHMENT 282
33.8 GROUP ATT REJECT 282
33.9 GROUP DETACHMENT 283
33.10 GROUP DET REJECT 283
33.11 HMM RECOVERY 283
33.12 HMM RECOVERY COMPLETED 284
33.13 HMM RECOVERY REJECT 284
33.14 LINKING 285
33.15 LINKING COMMAND 285
33.16 LINKING REJECT 285
33.17 MIGRATION 285
33.18 MIGRATION REJECT 285
33.19 OTAR-KEY DEMAND 286
33.20 OTAR-KEY PROVIDE 286
33.21 OTAR-KEY REJECT 286
33.22 OTAR-KEY RESULT 287
33.23 OTAR-PARAM DEMAND 287
33.24 OTAR-PARAM PROVIDE 287
33.25 OTAR-PARAM REJECT 288
33.26 OTAR-PARAM RESULT 288
33.27 PROFILE REJECT 288
33.28 PROFILE UPDATE 289
33.29 REMOTE UNLINKING 289
33.30 REMOVE REJECT 289
33.31 REMOVE SUBS 289
33.32 SS-PROFILE REJECT 290
33.33 SS-PROFILE UPDATE 290
33.34 UNLINKING 291
33.35 UNLINKING REJECT 291
33.36 VMM RECOVERY 291
33.37 VMM RECOVERY COMPLETED 291
33.38 VMM RECOVERY REJECT 292
33.39 Profiles 292
33.39.1 Basic migration profiles 292
33.39.1.1 Group basic migration profile (original and temporary) 292
33.39.1.2 Individual basic migration profile 294
33.39.2 SS-migration profile (original and temporary) 295

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST ETS 300 392-3-5 E1:2003
https://standards.iteh.ai/catalog/standards/sist/fb585ec6-8f6d-4f65-8cf3-e5edbe9f14af/sist-ets-300-392-3-5-e1-2003

SIST ETS 300 392-3-5 E1:2003

33.39.3 Relation between subscribers and group 295

34 ANF-ISIMM encoding requirements - stage 3 296
34.1 ANF-ISIMM PDU description tables 296
34.1.1 AUTHENTICATION DEMAND 296
34.1.2 AUTHENTICATION RESPONSE 296
34.1.3 AUTHENTICATION RESULT 297
34.1.4 AUTH REJECT 298
34.1.5 DE-REGISTRATION 298
34.1.6 DE-REGISTRATION RESPONSE 298
34.1.7 DE-REG REJECT 299
34.1.8 GROUP ATTACHMENT 299
34.1.9 GROUP ATTACHMENT RESPONSE 300
34.1.10 GROUP ATT REJECT 300
34.1.11 GROUP DETACHMENT 301
34.1.12 GROUP DETACHMENT RESPONSE 301
34.1.13 GROUP DET REJECT 301
34.1.14 HMM RECOVERY 302
34.1.15 HMM RECOVERY COMPLETED 302
34.1.16 HMM RECOVERY REJECT 302
34.1.17 HMM RECOVERY RESPONSE 303
34.1.18 LINKING 303
34.1.19 LINKING COMMAND 303
34.1.20 LINKING COMMAND RESPONSE 303
34.1.21 LINKING REJECT 303
34.1.22 LINKING RESPONSE 304
34.1.23 MIGRATION 304
34.1.24 MIGRATION REJECT 304
34.1.25 MIGRATION REJECT RESPONSE 305
34.1.26 MIGRATION RESPONSE 305
34.1.27 OTAR-KEY DEMAND 305
34.1.28 OTAR-KEY PROVIDE 306
34.1.29 OTAR-KEY REJECT 306
34.1.30 OTAR-KEY RESULT 307
34.1.31 OTAR-PARAM DEMAND 307
34.1.32 OTAR-PARAM PROVIDE 307
34.1.33 OTAR-PARAM REJECT 308
34.1.34 OTAR-PARAM RESULT 308
34.1.35 PROFILE REJECT 309
34.1.36 PROFILE UPDATE 309
34.1.37 PROFILE UPDATE RESPONSE 310
34.1.38 REMOTE UNLINKING 310
34.1.39 REMOVE REJECT 310
34.1.40 REMOVE SUBS 310
34.1.41 REMOVE SUBS RESPONSE 311
34.1.42 SS-PROFILE REJECT 311
34.1.43 SS-PROFILE UPDATE 312
34.1.44 SS-PROFILE UPDATE RESPONSE 312
34.1.45 UNLINKING 312
34.1.46 UNLINKING REJECT 313
34.1.47 UNLINKING RESPONSE 313
34.1.48 VMM RECOVERY 313
34.1.49 VMM RECOVERY COMPLETED 313
34.1.50 VMM RECOVERY REJECT 313
34.1.51 VMM RECOVERY RESPONSE 314
34.2 PDU information element encoding 314
34.2.1 Advanced link 314
34.2.2 Age stamp 315
34.2.3 AI security class (participating SwMI) 315
34.2.4 AI security class (requested) 315
34.2.5 AI encryption state list 315
34.2.6 ANF-ISIMM invoke id 316
34.2.7 Authentication invocation 316

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST ETS 300 392-3-5 E1:2003
https://standards.iteh.ai/catalog/standards/sist/1b585ec6-8f6d-4f65-8e13-2e0ba9f1a0fa/sist-ets-300-392-3-5-e1-2003

SIST ETS 300 392-3-5 E1:2003

34.2.8 Authentication rejection cause 317
34.2.9 Authentication service 317
34.2.10 Authentication type 317
34.2.11 Basic migration profile info 318
34.2.12 Call restoration support 318
34.2.13 Call time-out set-up phase timer (T301) 318
34.2.14 Call time-out timer (T310) 318
34.2.15 Circuit mode protected (high) data service 319
34.2.16 Circuit mode protected (low) data service 319
34.2.17 Circuit mode unprotected speech + data service 320
34.2.18 CONS 320
34.2.19 Default SS-information 321
34.2.20 De-registration rejection cause 321
34.2.21 De-registration type 321
34.2.22 Duplex service 322
34.2.23 End-to-end encryption service 322
34.2.24 First/Subsequent Group attachment 323
34.2.25 Following conditional element(s) present 323
34.2.25.1 Forced removal 323
34.2.26 Group attachment/detachment 323
34.2.27 Group attachment rejection cause 324
34.2.28 Group basic migration profile (original and temporary) 324
34.2.29 Group detachment rejection cause 326
34.2.30 Group information 326
34.2.31 Group information in subscriber profile 326
34.2.32 Group priority 326
34.2.33 GSSI 327
34.2.34 Home/Visited SwMI MM initiated 327
34.2.35 Independent of authentication service 327
34.2.36 Individual basic migration profile (original and temporary) 328
34.2.37 Interleaving depth 329
34.2.38 IP service 329
34.2.39 ISSI 330
34.2.40 ISI profile type 3 element identifier 330
34.2.41 Last group detachment 330
34.2.42 Linking rejection cause 330
34.2.43 Maximum number of timeslots 331
34.2.44 Migration rejection cause 331
34.2.45 Migration type 332
34.2.46 MNI 332
34.2.47 MNIs of SSI and of visited SwMI MM following 332
34.2.48 Not supported SS 332
34.2.49 Number of following elements 332
34.2.50 Number of not supported SSs 333
34.2.51 Number of SS-information 333
34.2.52 Original/Subsequent use of param 333
34.2.53 OTAR SCK delivery service 333
34.2.54 OTAR SCK generation service 334
34.2.55 OTAR SCK key rejection cause 334
34.2.56 OTAR SCK param rejection cause 335
34.2.57 Other linked group 335
34.2.58 PDU type 336
34.2.59 Pre-defined profile set reference(s) 337
34.2.60 Profile exchange support 337
34.2.61 Profile rejection cause 337
34.2.62 Profile type 338
34.2.63 Point-to-multipoint acknowledged service 338
34.2.64 Point-to-multipoint broadcast service 338
34.2.65 Point-to-multipoint service 339
34.2.66 Point-to-point service 339
34.2.67 Profile status 340
34.2.68 Proprietary 340
34.2.69 Recovery 340

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST ETS 300 392-3-5 E1:2003
https://standards.iteh.ai/catalog/standards/sist/1b583cc6-8f6d-4f65-8cf3-ea5e0be9f14a/sist-ets-300-392-3-5-e1-2003

SIST ETS 300 392-3-5 E1:2003

34.2.70 Recovery rejection cause 340
34.2.71 Recovery type 341
34.2.72 Restricted migration support 341
34.2.73 RSI rejection cause 341
34.2.74 SCLNS 341
34.2.75 SDS profile 342
34.2.76 Speech service 342
34.2.77 SS-information 343
34.2.78 SS-information response 343
34.2.79 SS-migration profile (original) 343
34.2.80 SS-migration profile response (temporary) 343
34.2.81 SS-profile response status 344
34.2.82 SS-profile update indicator 344
34.2.83 SS-response status 344
34.2.84 SS-status 344
34.2.85 SS-type 345
34.2.86 Subscriber information 345
34.2.87 Subscriber information in group profile 345
34.2.88 Subscriber status 345
34.2.89 Type 3 element identifier 345
34.2.90 Unlinking rejection cause 346
34.2.91 Validity time 346
34.2.92 Validity time type 346

35 ANF-ISIMM procedures - stage 3 346
35.1 General 346
35.2 Generic procedures 347
35.2.1 Invoking SwMI 347
35.2.2 Receiving SwMI 347
35.2.3 Clearing of ISI GFP transport connection 347
35.2.4 Convert primitive to PDU 347
35.2.5 Convert PDU to primitive 347
35.2.6 Correspondence between ANF-ISIMM primitives and PDUs 347
35.3 SDL descriptions 348
35.4 Migration 349
35.4.1 Visited SwMI ANF-ISIMM 349
35.4.2 Home SwMI ANF-ISIMM 353
35.5 Restricted migration 357
35.5.1 Visited SwMI ANF-ISIMM 357
35.5.2 Home SwMI ANF-ISIMM 358
35.6 Removal of Subscriber Information 358
35.6.1 Home SwMI ANF-ISIMM 358
35.6.2 Previous visited SwMI ANF-ISIMM 359
35.7 De-registration 360
35.7.1 Visited SwMI ANF-ISIMM 360
35.7.2 Home SwMI ANF-ISIMM 361
35.8 Profile update 362
35.8.1 Home SwMI ANF-ISIMM 362
35.8.2 Visited SwMI ANF-ISIMM 363
35.9 SS-profile update 364
35.9.1 Home SwMI ANF-ISIMM 364
35.9.2 Visited SwMI ANF-ISIMM 365
35.10 Authentication 366
35.10.1 Visited SwMI ANF-ISIMM 366
35.10.2 Home SwMI ANF-ISIMM 367
35.11 Over the air re-keying 369
35.11.1 OTAR SCK generation 369
35.11.1.1 Visited SwMI ANF-ISIMM 369
35.11.1.2 Home SwMI ANF-ISIMM 371
35.11.2 OTAR SCK delivery 373
35.11.2.1 Visited SwMI ANF-ISIMM 373
35.11.2.2 Home SwMI ANF-ISIMM 375
35.12 Individual subscriber database recovery 377

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST ETS 300 392-3-5 E1:2003
https://standards.iteh.ai/catalog/standards/sist/fb585ec6-8f6d-4f65-8cf3-e5edbe9f14af/sist-ets-300-392-3-5-e1-2003