3GPP TSG-T (Terminals) Meeting #12
Stockholm, Sweden, 13 - 15 June 2001

Tdoc TP-010108

Source: T3

Title: Change Requests to TS 31.121 "UICC-Terminal Interface; USIM Application Test specification"

Document for: Approval

This document contains change requests to TS 31.121 as agreed by T3.

T3 Doc	Spec	CR	Rv	Rel	Subject
T3-010355	31.121	001		R99	Correction of EF(UST) used in the Test USIM
T3-010357	31.121	002		R99	Correction of EF(ECC) used in the Test USIM
T3-010358	31.121	003		R99	Correction to EF(HPLMN) regarding test USIMs
T3-010359	31.121	004		R99	Deletion of a duplicated test case
T3-010425	31.121	005		rel-4	Modification of EF ECC used in the Test USIM

CR-Form-v3

CHANGE REQUEST

⌘ **31.121** CR **001** ⌘ rev **-** ⌘ Current version: **3.0.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: ⌘ (U)SIM **X** ME/UE ☐ Radio Access Network ☐ Core Network ☐

Title: ⌘	Correction of EF UST used in the Test USIM	
Source: ⌘	T3	
Work item code: ⌘		***Date:*** ⌘ 2001-05-09
Category: ⌘ **F**		***Release:*** ⌘ R99

Use <u>one</u> of the following categories:
F (essential correction)
A (corresponds to a correction in an earlier release)
B (Addition of feature),
C (Functional modification of feature)
D (Editorial modification)
Detailed explanations of the above categories can
be found in 3GPP TR 21.900.

Use <u>one</u> of the following releases:
2   (GSM Phase 2)
R96   (Release 1996)
R97   (Release 1997)
R98   (Release 1998)
R99   (Release 1999)
REL-4 (Release 4)
REL-5 (Release 5)

Reason for change: ⌘	The bit corresponding to EF UST service n 33 defining the packet domain support shall always be set to 1, because the EFs for packet domain support (PSLOCI and KeysPS) are mandatory. The test specification shall follow the core specification.
Summary of change: ⌘	The bit corresponding to EF UST service n°33 is reserved (set to 1)
Consequences if not approved: ⌘	The test specification is not in line with the core specification 31.102

Clauses affected: ⌘	4.1.1.8; 4.2.1.1; 4.3.1.1; 6.4.1.4.1; 6.4.2.4.1; 6.4.3.4.1; 6.4.4.4.1; 8.2.1.4.1; 8.2.2.4.1

Other specs affected: ⌘	☐ Other core specifications	⌘	
	☐ Test specifications		
	☐ O&M Specifications		

Other comments: ⌘	

4.1.1.8 EF$_{UST}$ (USIM Service Table)

Logically:

　　Local Phone Book available
　　User controlled PLMN selector available
　　Fixed dialling numbers available
　　Barred dialling numbers available
　　The GSM Access available
　　The Group Identifier level 1 and level 2 not available
　　　　Service n 33 (Packed Switched Domain) shall be set to '1'

Coding:	B1	B2	B3	B4	B5
binary	x1xx xx11	xxxx xxxx	xxxx 1x00	xxxx x1xx	xxxx xxx1

　　The coding of EF$_{UST}$ shall conform with the capabilities of the USIM used.

4.2.1.1 EF$_{UST}$ (USIM Service Table)

Logically:

　　Local Phone Book available
　　User controlled PLMN selector available
　　Fixed dialling numbers available
　　Barred dialling numbers available
　　The GSM Access available
　　The Group Identifier level 1 and level 2 not available.
　　　　Service n 33 (Packed Switched Domain) shall be set to '1'

Coding:	B1	B2	B3	B4	B5
binary	xx1x xx11	xxxx xxxx	xxxx 1x00	xxxx x1xx	xxxx xxx1

　　The coding of EF$_{UST}$ shall conform with the capabilities of the USIM used.

4.3.1.1 EF$_{UST}$ (USIM Service Table)

Logically:

　　Local Phone Book available
　　User controlled PLMN selector available
　　Fixed dialling numbers available
　　Barred dialling numbers available
　　The GSM Access available
　　The Group Identifier level 1 and level 2 not available.
　　　　Service n 33 (Packed Switched Domain) shall be set to '1'

Coding:	B1	B2	B3	B4	B5
binary	xx1x xx11	xxxx xxxx	xxxx 1x00	xxxx x1xx	xxxx xxx1

　　The coding of EF$_{UST}$ shall conform with the capabilities of the USIM used.

6.4.1.4 Method of test

6.4.1.4.1 Initial conditions

The Terminal shall be installed with a UICC or USIM simulator, with all elementary files coded as for the default UICC, with the exception of:

EF_{UST} (USIM Service Table)
Logically:
> Local Phone Book available;
> User controlled PLMN selector available;
> Fixed dialling numbers available;
> The GSM Access available;
> The Group Identifier level 1 and level 2 not available;
> AoC not available.
> Service n 33 (Packed Switched Domain) shall be set to '1'

Coding:	B1	B2	B3	B4	B5
binary	xxxx xx11	xxx0 xxxx	xxxx 1x00	xxxx x1xx	xxxx xxx1

> The coding of EF_{UST} shall conform with the capabilities of the USIM used.

6.4.2.4 Method of test

6.4.2.4.1 Initial conditions

The Terminal shall be connected to the USIM simulator, with all elementary files coded as default with the exception of:

EF_{UST} (USIM Service Table)
Logically:
> Local Phone Book available;
> User controlled PLMN selector available;
> Fixed dialling numbers available;
> The GSM Access available;
> The Group Identifier level 1 and level 2 not available;
> AoC available.
> Service n 33 (Packed Switched Domain) shall be set to '1'

Coding:	B1	B2	B3	B4	B5
binary	xxxx xx11	xxx1 xxxx	xxxx 1x00	xxxx x1xx	xxxx xxx1

> The coding of EF_{UST} shall conform with the capabilities of the USIM used.

6.4.3.4 Method of test

6.4.3.4.1 Initial conditions

The Terminal shall be connected to a UICC or the USIM simulator, with all elementary files coded as default with the exception of:

EF_{UST} (USIM Service Table)
Logically:
> Local Phone Book available;
> User controlled PLMN selector available;
> Fixed dialling numbers available;
> The GSM Access available;
> The Group Identifier level 1 and level 2 not available;

AoC available.

Service n 33 (Packed Switched Domain) shall be set to '1'

Coding:	B1	B2	B3	B4	B5
binary	xxxx xx11	xxx1 xxxx	xxxx 1x00	xxxx x1xx	xxxx xxx1

The coding of EF$_{UST}$ shall conform with the capabilities of the USIM used.

6.4.4.4 Method of test

6.4.4.4.1 Initial conditions

The Terminal shall be connected to the USIM simulator, with all elementary files coded as default with the exception of:

EF$_{UST}$ (USIM Service Table)
Logically:

> Local Phone Book available;
> User controlled PLMN selector available;
> Fixed dialling numbers available;
> The GSM Access available;
> The Group Identifier level 1 and level 2 not available;
> AoC available.
> Service n 33 (Packed Switched Domain) shall be set to '1'

Coding:	B1	B2	B3	B4	B5
binary	xxxx xx11	xxx1 xxxx	xxxx 1x00	xxxx x1xx	xxxx xxx1

The coding of EF$_{UST}$ shall conform with the capabilities of the USIM used.

8.2.1.4 Method of test

8.2.1.4.1 Initial conditions

The default UICC is used with the following exception:

EF$_{UST}$ (USIM Service Table)

Logically:

> Local Phone Book available
> User controlled PLMN selector available
> Fixed dialling numbers available
> Barred dialling numbers available
> The GSM Access available
> The Group Identifier level 1 and level 2 not available
> SMS available
> SMS Status available
> Service n 33 (Packed Switched Domain) shall be set to '1'

Coding:	B1	B2	B3	B4	B5
binary	x1xx xx11	x11x xxxx	xxxx 1x00	xxxx x1xx	xxxx xxx1

The coding of EF$_{UST}$ shall conform with the capabilities of the USIM used.

8.2.2.4 Method of test

8.2.2.4.1 Initial conditions

The default UICC is used with the following exception:

EF$_{UST}$ (USIM Service Table)

Logically:
> Local Phone Book available
> User controlled PLMN selector available
> Fixed dialling numbers available
> Barred dialling numbers available
> The GSM Access available
> The Group Identifier level 1 and level 2 not available
> SMS available
> SMS Status available
> Service n 33 (Packed Switched Domain) shall be set to '1'

Coding:	B1	B2	B3	B4	B5
binary	x1xx xx11	x11x xxxx	xxxx 1x00	xxxx x1xx	xxxx xxx1

> The coding of EF$_{UST}$ shall conform with the capabilities of the USIM used.

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CHANGE REQUEST

| ⌘ | **31.121** CR **002** | ⌘ rev | **-** | ⌘ | Current version: | **3.0.0** | ⌘ |

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: ⌘　(U)SIM **X**　ME/UE ☐　Radio Access Network ☐　Core Network ☐

Title:	⌘	Correction of EF ECC used in the Test USIM
Source:	⌘	T3
Work item code: ⌘		**Date:** ⌘　2001-05-09
Category:	⌘ **F**	**Release:** ⌘　R99

Use one of the following categories:
　F (essential correction)
　A (corresponds to a correction in an earlier release)
　B (Addition of feature),
　C (Functional modification of feature)
　D (Editorial modification)
Detailed explanations of the above categories can
be found in 3GPP TR 21.900.

Use one of the following releases:
　2　(GSM Phase 2)
　R96　(Release 1996)
　R97　(Release 1997)
　R98　(Release 1998)
　R99　(Release 1999)
　REL-4　(Release 4)
　REL-5　(Release 5)

Reason for change: ⌘		Byte 9 of the EF ECC of the test USIM was wrongly added. The name of the emergency call type indicator was changed to "Service Category".
Summary of change: ⌘		Byte 9 of EF ECC is deleted. The Emergency call type indicator is changed to "Service Category".
Consequences if not approved:	⌘	The test specification is not inline with the core specification 31.102

Clauses affected:	⌘	4.2.1.4; 4.3.1.4
Other specs affected:	⌘ ☐	Other core specifications ⌘
	☐	Test specifications
	☐	O&M Specifications
Other comments:	⌘	This CR is subject to the approval of the 31.102 CR 081.

4.2.1.4 EF$_{ECC}$ (Emergency Call Codes)

Logically:

Emergency call code: "122";
Emergency call code alpha identifier: "TEST";
Emergency ~~call type indicator~~Service Category: RFU.

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	~~B9~~
Hex	21	1F	FF	54	45	53	54	00	~~00~~

4.3.1.4 EF$_{ECC}$ (Emergency Call Codes)

Logically:

Emergency call code: "122";
Emergency call code alpha identifier: "TEST";
Emergency ~~call type indicator~~Service Category: RFU.

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	~~B9~~
Hex	21	1F	FF	54	45	53	54	00	~~00~~

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CHANGE REQUEST

| ⌘ | **31.121** CR **003** | ⌘ rev | **-** | ⌘ | Current version: | **3.0.0** | ⌘ |

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: ⌘   (U)SIM **X**   ME/UE ☐   Radio Access Network ☐   Core Network ☐

Title: ⌘	Correction of HPLMN selector with Access Technology (EF HPLMN_{wAcT}) used in the Test USIM	

Source: ⌘	T3	

Work item code: ⌘		***Date:*** ⌘	2001-05-09

Category: ⌘	**F**	***Release:*** ⌘	R99

Use <u>one</u> of the following categories:
F *(essential correction)*
A *(corresponds to a correction in an earlier release)*
B *(Addition of feature),*
C *(Functional modification of feature)*
D *(Editorial modification)*
Detailed explanations of the above categories can
be found in 3GPP TR 21.900.

Use <u>one</u> of the following releases:
2   *(GSM Phase 2)*
R96   *(Release 1996)*
R97   *(Release 1997)*
R98   *(Release 1998)*
R99   *(Release 1999)*
REL-4   *(Release 4)*
REL-5   *(Release 5)*

Reason for change: ⌘	The EF HPLMN_{wAcT} selector with Access Technology does also include the MCC and MNC of the HPLMN_{wAcT}.

Summary of change: ⌘	The MCC and MNC codes are added to the HPLMN selector with Access Technology used in the Test USIM

Consequences if not approved: ⌘	The test specification is not in line with the core specification 31.102

Clauses affected: ⌘	7.4.2

Other specs affected: ⌘	☐ Other core specifications ⌘	
	☐ Test specifications	
	☐ O&M Specifications	

Other comments: ⌘	

7.4.2 GSM/UMTS dual mode UEs recognising the search period of the HPLMN

7.4.2.2 Conformance requirement

After registered onto a VPLMN the UE shall take into account the HPLMN search period timer and the priority order of the HPLMNs in the preferred list on the USIM including the Access Technology Identifier.

TS 22.011, subclause 3.2.2. and 3.2.2.5

7.4.2.3 Test purpose

To verify that the HPLMN timer is read and the HPLMN with the higher priority (defined by its position in $EF_{HPLMNwACT}$) takes precedence over the VPLMN in which the UE is currently registered in.

7.4.2.4 Method of test

7.4.2.4.1 Initial conditions

For this test both a GSM SS and a UTRAN USS is needed.

The GSM SS transmits on BCCH, with the following network parameters:

Attach/detach: disabled
LAI (MCC/MNC/LAC):   244/081/0001
Access control: unrestricted.

After the registration of UE the GSM SS transmits on a second BCCH, with the following network parameters:

Attach/detach: disabled
LAI (MCC/MNC/LAC):   246/081/0001
Access control: unrestricted.

At the same time as the SS sends on a second BCCH, the UMTS USS transmit on BCCH, with the following network parameters:

Attach/detach: disabled
LAI (MCC/MNC/LAC):   246/081/0001
Access control: unrestricted.

The default UICC is used with the following exception:

$EF_{HPLMNwACT}$ (HPLMN selector with Access Technology)

Logically: Set to MCC 246 and MNC 081
           Set to UTRAN

Coding:	B1	B2	B3	~~B1~~B4	~~B2~~B5
Hex	42	06	18	80	00

EF_{HPLMN} (HPLMN Search period)

Logically: set to 6minutes
Coding: B1
Hex   01

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection mode.

CR-Form-v3

CHANGE REQUEST

| ⌘ | **31.121** CR **004** | ⌘ | rev | **-** | ⌘ | Current version: | **3.0.0** | ⌘ |

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: ⌘   (U)SIM **X**   ME/UE ☐   Radio Access Network ☐   Core Network ☐

Title:	⌘	Deletion of duplicated test case
Source:	⌘	T3
Work item code: ⌘		***Date:*** ⌘ 2001-05-09
Category:	⌘ **F**	***Release:*** ⌘ R99

Use <u>one</u> of the following categories:
F *(essential correction)*
A *(corresponds to a correction in an earlier release)*
B *(Addition of feature),*
C *(Functional modification of feature)*
D *(Editorial modification)*
Detailed explanations of the above categories can
be found in 3GPP TR 21.900.

Use <u>one</u> of the following releases:
2   *(GSM Phase 2)*
R96   *(Release 1996)*
R97   *(Release 1997)*
R98   *(Release 1998)*
R99   *(Release 1999)*
REL-4   *(Release 4)*
REL-5   *(Release 5)*

Reason for change:	⌘	The test case 7.4.2 "GSM/UMTS dual mode UEs recognising the search period of the HPLMN" is duplicated in 7.5.2
Summary of change:	⌘	The duplicated test case is deleted
Consequences if not approved:	⌘	A test case has to be performed twice

Clauses affected:	⌘	7.5.2
Other specs affected:	⌘	☐ Other core specifications ⌘ ☐ Test specifications ☐ O&M Specifications
Other comments:	⌘	

7.5.2 GSM/UMTS dual mode UEs recognising the search period of the HPLMN

7.5.2.1 Definition and applicability

The HPLMN list gives in priority order the Home PLMN on which the UE shall register first. The Radio Access Technology identifier defines the Radio network in which the UE shall register. The list is stored on the USIM in the $EF_{HPLMNACT}$. The HPLMN search period gives the time interval in which the UE shall search for a possible HPLMN registration. To avoid a duplication of a test,

This test applies to a GSM/UMTS dual mode UE accessing both UTRAN and GSM using either ID-1 or Plug-in UICC.

To avoid a duplication of tests, this test supersede the previous test case (7.4.1).

7.5.2.2 Conformance requirement

After registered onto a VPLMN the UE shall take into account the HPLMN search period timer and the priority order of the HPLMNs in the preferred list on the USIM including the Access Technology Identifier.

TS 22.011, subclause 3.2.2. and 3.2.2.5

7.5.2.3 Test purpose

To verify that the HPLMN timer is read and the HPLMN with the higher priority (defined by its position in $EF_{HPLMNACT}$) takes precedence over the VPLMN in which the UE is currently registered in.

7.5.2.4 Method of test

7.5.2.4.1 Initial conditions

For this test both a GSM SS and a UTRAN USS is needed.

The GSM SS transmits on BCCH, with the following network parameters:

Attach/detach: disabled
LAI (MCC/MNC/LAC): 244/081/0001
Access control: unrestricted.

After the registration of UE the GSM SS transmits on a second BCCH, with the following network parameters:

Attach/detach: disabled
LAI (MCC/MNC/LAC): 246/081/0001
Access control: unrestricted.

At the same time as the SS sends on a second BCCH, the UMTS USS transmit on BCCH, with the following network parameters:

Attach/detach: disabled
LAI (MCC/MNC/LAC): 246/081/0001
Access control: unrestricted.

The default UICC is used with the following exception:

$EF_{HPLMNACT}$ (HPLMN selector with Access Technology)

Logically: Set to UTRAN

Coding: B1   B2
Hex   80   00

EF~HPLMN~ (HPLMN Search period)

Logically: set to 6minutes
Coding: B1
Hex   01

The UICC is installed into the Terminal and the UE is set to automatic PLMN selection mode.

7.5.2.4.2   Procedure

a) The UE is powered on.

b) After receipt of a CHANNEL REQUEST from the UE, the SS sends IMMEDIATE ASSIGNMENT to the UE.

c) After receipt of a LOCATION UPDATE REQUEST from the UE, the SS sends LOCATION UPDATE ACCEPT with:

LAI (MCC/MNC):   244/081
TMSI: "34567890"

to the UE

d) After receipt of a TMSI REALLOCATION COMPLETE from the UE, the SS sends CHANNEL RELEASE to the UE.

e) The SS starts to send on the second BCCH with the MCC/MNC 246/081 and the USS starts to send with the Same MCC/MNC. An internal timer shall start to run.

f) After receipt of a CHANNEL REQUEST from the UE, the USS sends IMMEDIATE ASSIGNMENT to the UE. The internal timer is stopped.

g) After receipt of a LOCATION UPDATE REQUEST from the UE, the USS sends LOCATION UPDATE ACCEPT with:

LAI (MCC/MNC):   246/081
TMSI: "12345678"

to the UE

h) After receipt of a TMSI REALLOCATION COMPLETE from the UE, the USS sends CHANNEL RELEASE to the UE.

i) The UE is soft powered down.

7.5.2.5 Acceptance criteria

1) After step e) the UE shall send LOCATION UPDATE REQUEST containing an MCC/MNC of 246/081 to the USS.

2) After step g) the UE shall respond with TMSI REALLOCATION COMPLETE.

3) The value of the internal timer shall not exceed 6 minutes.

Note: To take the systems processing time into account, the value of the internal timer may allowed to be a guard time of 1 second greater than the required 6 seconds.

4) After step i) the USIM shall contain the following values:

EF~LOCI~ (Location Information)

Logically: LAI MCC: 246
            LAI MNC: 081
            TMSI: "12345678"

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	12	34	56	78	42	06	18	xx	xx	xx	00

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CHANGE REQUEST

| ⌘ | **31.121** CR **005** | ⌘ rev | **-** | ⌘ | Current version: | **3.0.0** | ⌘ |

For HELP on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM **X** ME/UE ☐ Radio Access Network ☐ Core Network ☐

Title:	⌘	Modification of EF ECC used in the Test USIM for Rel-4
Source:	⌘	T3
Work item code:	⌘		*Date:* ⌘ 2001-05-11
Category:	⌘	**F**	*Release:* ⌘ Rel-4

Use <u>one</u> of the following categories:
F (essential correction)
A (corresponds to a correction in an earlier release)
B (Addition of feature),
C (Functional modification of feature)
D (Editorial modification)
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use <u>one</u> of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
REL-4 (Release 4)
REL-5 (Release 5)

Reason for change:	⌘	31.102 Rel-4 defines specific Service Categories for Emergency Calls in the EF (ECC). The value is therefore changed from RFU to a value referenced in 24.008
Summary of change:	⌘	The byte for the Emergency Service Category is changed from RFU to a specific value. The test procedure is changed accordingly.
Consequences if not approved:	⌘	The test specification is not in line with the Rel-4 of the core specification 31.102

Clauses affected:	⌘	4.2.1.4; 4.3.1.4; 6.2.1; 6.3.1
Other specs affected:	⌘	☐ Other core specifications ⌘ ☐ Test specifications ☐ O&M Specifications
Other comments:	⌘	This CR assumes, that the 31.121 R99 CR002 is approved and its changes were already incorporated in the latest version of the 31.121. As this CR will be presented at the same time to the TSG T together with the CR002, it was felt, that this procedure is the best way forward.

4.2.1.4 EF_{ECC} (Emergency Call Codes)

Logically:

Emergency call code:	"122";
Emergency call code alpha identifier:	"TEST";
Emergency Service Category:	~~RFU~~Mountain Rescue.

Coding:	B1	B2	B3	B4	B5	B6	B7	B8
Hex	21	1F	FF	54	45	53	54	~~00~~10

Next Modified Clause

4.3.1.4 EF_{ECC} (Emergency Call Codes)

Logically:

Emergency call code:	"122";
Emergency call code alpha identifier:	"TEST";
Emergency Service Category:	~~RFU~~Mountain Rescue.

Coding:	B1	B2	B3	B4	B5	B6	B7	B8
Hex	21	1F	FF	54	45	53	54	~~00~~10

Next Modified Clause

6.2.1 Terminal and USIM with FDN enabled, EF_{ADN} readable and updateable

6.2.1.1 Definition and applicability

Fixed Dialling Numbers (FDN) is a service defined for the USIM. An enabled FDN service results in call restrictions for the UE. The call restrictions are controlled by the Terminal. To ascertain the type of USIM and state of FDN the UE runs the FDN capability request procedure during UICC-Terminal initialisation. During the initialisation the Terminal shall requests the Emergency call codes of the USIM EF_{UST}. At the time an emergency call is setup using the emergency call code read from the EF_{ECC}, the UE shall use the category of the emergency service indicated.

This test applies to Terminals accessing UTRAN. Besides of that, this test is applicable only to those Terminals supporting FDN.

6.2.1.2 Conformance requirement

1) Recognising the state of the USIM (FDN enabled) the UE shall perform the UICC initialisation procedure as specified.

2) The UE allows call set-up to a directory number as stored in EF_{FDN}.

3) The UE allows call set-up to a directory number as stored in EF_{FDN} and extended by digits in the end.

4) The UE does not allow call set-up to a directory number stored in EF_{FDN} but with missing digits at the end.

5) The UE does not allow call set-up to a directory number having no reference in EF_{FDN}.

6) The UE allows call set-up of an emergency call using the emergency number stored in the Terminal.

7) The UE allows call set-up of an emergency call using the emergency number stored in the USIM.

8) The UE shall indicate the emergency service category as "Mountain Rescue", when using the emergency number stored in the USIM.

Reference:

TS 22.101, clause 8 and annex A.24;

TS 31.102, subclause 4.4.2, 5.1.1 and 5.3.2~~.~~:

TS 24.008, subclause 10.5.4.33.

6.2.1.3 Test purpose

1) To verify that the Terminal allows call set-up to a FDN number.

2) To verify that the Terminal allows call set-up to a FDN number extended by some digits in the end.

3) To verify that the Terminal rejects call set-up to number having a reference in EF_{FDN}.

4) To verify that the Terminal rejects call set-up to a FDN number not completely corresponding to an entry in EF_{FDN}.

5) To verify that the Terminal allows emergency call set-up using the emergency number stored in the Terminal.

6) To verify that the Terminal allows emergency call set-up using the emergency number stored in the UISM.

7) To verify that the Terminal reads correctly the emergency service category.

6.2.1.4 Method of test

6.2.1.4.1 Initial conditions

The USS transmits on the BCCH, with the following network parameters

Attach/detach: disabled
LAI (MCC/MNC/LAC):   246/081/0001
Access control: unrestricted

The default FDN UICC with FDN service enabled and EF_{ADN} readable and updateable is installed into the Terminal.

6.2.1.4.2 Procedure

a) The UE is powered on and PIN is entered.

b) Using the MMI a call set-up to the fixed dialling number 1 (record 1) is attempted.

c) Using the MMI a call set-up to the fixed dialling number 2 (record 2) extended by "123" in the end is attempted.

d) Using the MMI a call set-up to a number which is equal to the fixed dialling number 3 (record 3) without the last digit is attempted, e.g. by recalling the fixed dialling number 3 and deleting the last digit (only in display).

e) Using the MMI a call set-up to the number "1234567" is attempted.

f) Using the MMI an emergency call set-up is attempted using the emergency call code stored in the Terminal.

g) Using the MMI an emergency call set-up is attempted using the emergency call code stored in the USIM (i.e. "122").

NOTE: For step f) one of the emergency call codes according to 22.101, subclause 8.1 shall be used (i.e. 000, 08, 112, 110, 911 or 999)

6.2.1.5 Acceptance criteria

1) After step a) the UE is registered and in idle state.

2) After steps b) and c) the UE shall allow call set-up and send the requested number across the air interface.

3) After steps d) and e) the UE shall prevent call set-up.

4) After steps f) and g) the UE shall allow emergency call by indicating the call setup as "Emergency Call".

5) After step g) the UE shall send the emergency service category correctly as "Mountain Rescue".

Next Modified Clause

6.3.1 Terminal and USIM with BDN enabled

6.3.1.1 Definition and applicability

Barred Dialling Numbers (BDN) is a service defined for the USIM. An enabled BDN service results in call restrictions for the UE. The call restrictions are controlled by the Terminal. To ascertain the type of USIM and state of BDN the UE runs the BDN capability request procedure during UICC-Terminal initialisation. At the time an emergency call is setup using the emergency call code read from the EF_{ECC}, the UE shall use the category of the emergency service indicated.

This test applies to Terminals accessing UTRAN. Besides of that, this test is applicable only to those Terminals supporting BDN.

6.3.1.2 Conformance requirement

1) Recognising the state of the USIM (BDN enabled) the UE shall perform the UICC initialisation procedure as specified.

2) The UE prevent call set-up to a any number stored in EF_{BDN}.

3) The UE allows call set-up of an emergency call, even if this number is stored in the USIM.

Reference:

TS 22.101, Annex 19;

TS 31.102, subclause 5.1.1 and 5.3.2.;

TS 24.008, subclause 10.5.4.33.

6.3.1.3 Test purpose

1) To verify that the Terminal rejects call set-up to any number that has an entry in EF_{BDN}.

2) To verify that the Terminal allows call set-up to any number other number not stored in EF_{BDN}.

3) To verify that the Terminal allows emergency call set-up even if the number is stored in EF_{BDN}.

4) To verify that the Terminal reads correctly the emergency service category stored in $EF_{ECC.}$

6.3.1.4 Method of test

6.3.1.4.1 Initial conditions

The USS transmits on the BCCH, with the following network parameters

Attach/detach: disabled
LAI (MCC/MNC/LAC):   246/081/0001
Access control: unrestricted

The default BDN UICC with BDN service enabled is installed into the Terminal.

6.3.1.4.2   Procedure

a) The UE is powered on and PIN is entered.

b) Using the MMI a call set-up to the barred dialling number 1 (record 1) is attempted.

c) Using the ADN entry a call set-up to the abbreviated dialling number 1 (record 1) end is attempted.

d) Using the MMI a call set-up to the number "123456" is attempted.

e) Using the MMI an emergency call set-up is attempted using the emergency call code stored in the Terminal

f) Using the MMI an emergency call set-up is attempted using the emergency call code stored in the USIM (i.e. "122").

NOTE: For step e) one of the emergency call codes according to 22.101, subclause 8.1 is used (i.e. 000, 08, 112, 110, 911 or 999)

6.3.1.5 Acceptance criteria

1) After step a) the UE is registered and in idle state.

3) After steps b) and c) the UE shall prevent call set-up.

2) After step d) the UE shall allow call set-up and send the requested number across the air interface.

4) After steps fe) and gf) the UE shall allow emergency call by indicating the call setup as "Emergency Call".

5) After step f) the UE shall send the emergency service category correctly as "Mountain Rescue".