SLOVENSKI STANDARD

SIST TBR 022:2000/A1:2004

01-oktober-2004

Radijska oprema in sistemi (RES) - Priključitvene zahteve za terminalsko opremo za digitalne izboljšane brezvrvične telekomunikacije (DECT): uporaba profila generičnega dostopa (GAP)

Radio Equipment and Systems (RES); Attachment requirements for terminal equipment for Digital Enhanced Cordless Telecommunications (DECT) Generic Access Profile (GAP) applications

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33.070.30	Digitalne izboljšane brezvrvične telekomunikacije (DECT)	Digital Enhanced Cordless Telecommunications (DECT)

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AMENDMENT

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A1

March 1998

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Key words: Access, DECT, generic, radio, testing, type approval

**This amendment A1 modifies
the Technical Basis for Regulation TBR 22 (1997)**

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Radio Equipment and Systems (RES);

Attachment requirements for terminal equipment for

Digital Enhanced Cordless Telecommunications (DECT)

Generic Access Profile (GAP) applications

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Foreword

This amendment to TBR 22 (1997) has been produced by the Digital Enhanced Cordless Telecommunications (DECT) Project of the European Telecommunications Standards Institute (ETSI).

NOTE: The amendments are shown with change bars and revision marks to facilitate identification of the changes introduced.

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Amendments

Clause 2

Replace reference [10] of clause 2 as follows:

[10] ~~ETS 300 444 (1995): "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Generic Access Profile (GAP)".~~

[10] <u>EN 300 444: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP)".</u>

Subclause 6.1.1.2

Replace table 7 with the following table 7:

Table 7

TBR 22: Test Case Index		
Test Group Reference	Test Case Id	Description
PT/CC/BV/OC/	TC_PT_CC_BV_OC_01	Outgoing call; T-00, T-01, T-02, T-03, T-04, T-10; piece wise dialling in T-02
	TC_PT_CC_BV_OC_02	Outgoing call; states T-00, T-01, T-10; piece wise dialling in T-10
	TC_PT_CC_BV_OC_03	Outgoing call; states T-00, T-01, T-02, T-10; piece wise dialling in T-02 and T-10
	TC_PT_CC_BV_OC_04	Outgoing call; U-plane connection upon <<Progress ind.>> in {CC-SETUP-ACK}
PT/CC/BV/IC/	TC_PT_CC_BV_IC_01	Incoming call; T-01, T-06, T-07, T-08, T-10; <<SIGNAL>> in T-07
	TC_PT_CC_BV_IC_02	Incoming call; T-01, T-06, T-07, T-08, T-10; <<SIGNAL>> in {CC-SETUP}
PT/CC/BV/CI/	TC_PT_CC_BV_CI_01	Alerting the user; Incoming call; <<SIGNAL>> in {CC-SETUP}
	TC_PT_CC_BV_CI_02	Go to pulse invocation in T-02; Outgoing call
	TC_PT_CC_BV_CI_03	Go to pulse invocation in T-10; Outgoing call
	TC_PT_CC_BV_CI_04	Dialling pause indication in T-02; Outgoing call
	TC_PT_CC_BV_CI_05	Dialling pause indication in T-10; Outgoing call
	TC_PT_CC_BV_CI_06	Go to DTMF invocation in T-02; defined tone length; Outgoing call
	TC_PT_CC_BV_CI_07	Go to DTMF invocation in T-10; defined tone length; Outgoing call
	TC_PT_CC_BV_CI_08	Go to DTMF invocation in T-02; infinite tone length; Outgoing call
	TC_PT_CC_BV_CI_09	Go to DTMF invocation in T-10; infinite tone length; Outgoing call
	TC_PT_CC_BV_CI_10	Outgoing normal call; T-02; {CC-INFO], sending <<Multi keypad>>, "0-9, star, hash mark"
	TC_PT_CC_BV_CI_11	Internal call
	TC_PT_CC_BV_CI_12	T-10; {CC-INFO}, <<Multi display>> standard characters handling
	TC_PT_CC_BV_CI_13	T-10; {CC-INFO}, <<Multi display>> control characters handling
	TC_PT_CC_BV_CI_14	T-10; invocation of "Register recall"; {CC-INFO}, <<Multi keypad>>

(continued)

Table 7 (continued)

TBR 22: Test Case Index		
PT/CC/BV/CR/	TC_PT_CC_BV_CR_01	Outgoing normal call; T-02; FT initiated normal release
	TC_PT_CC_BV_CR_02	Outgoing normal call; T-03; FT initiated normal release
	TC_PT_CC_BV_CR_03	Outgoing normal call; T-04; FT initiated normal release
	TC_PT_CC_BV_CR_04	Incoming call; T-08; FT initiated normal release
	TC_PT_CC_BV_CR_05	T-10; FT initiated normal release
	TC_PT_CC_BV_CR_06	T-10; IUT initiated normal release
	TC_PT_CC_BV_CR_07	T-01; FT initiated abnormal release
	TC_PT_CC_BV_CR_08	T-02; FT initiated abnormal release
	TC_PT_CC_BV_CR_09	T-10; FT initiated abnormal release
	TC_PT_CC_BV_CR_10	T-10; FT initiated partial release
	TC_PT_CC_BV_CR_11	T-10; IUT initiated partial release
PT/CC/BV/RS/	TC_PT_CC_BV_RS_01	T-00; Incoming call; {CC-SETUP} with <<Calling party number>>; CLIP handling
PT/CC/BO/	TC_PT_CC_BO_01	T-0~~3~~; ~~8;~~ unexpected message {CC-CALL-PROC}; ignore
	TC_PT_CC_BO_02	T-19; receipt of {CC-RELEASE}; release collision; clear the call
PT/CC/BI/	TC_PT_CC_BI_01	T-00; {CC-SETUP} mandatory I.E. missing; answer upon with {CC-RELEASE-COM]
	TC_PT_CC_BI_02	T-00; {CC-SETUP} wrong mandatory I.E.; answer upon with {CC-RELEASE-COM]
	TC_PT_CC_BI_03	T-00; {CC-SETUP}-like message, non {CC-SETUP} unrecognized message type; ignore
	~~TC_PT_CC_BI_04~~	~~T-00; to short message to contain the complete <<Message type>>; ignore~~
PT/CC/TI/	TC_PT_CC_TI_01	T-19; timer P-<CC.02> expiry (-10% margin)~~(± 5% margin)~~; IUT sends {CC-RELEASE-COM}
	TC_PT_CC_TI_02	Outgoing call; T-01; timer P-<CC.03> expiry (-10% margin~~± 5% margin~~); IUT sends {CC-RELEASE-COM}
	TC_PT_CC_TI_03	T-01; restarts P-<CC.03> upon {CC-NOTIFY}
	TC_PT_CC_TI_04	Outgoing call; T-08; timer P-<CC.05> expiry (-10% margin~~± 5% margin~~); IUT sends {CC-RELEASE}
PT/MM/BV/ID/	TC_PT_MM_BV_ID_01	Identity request; IPUI type requested; active IPUI returned
	TC_PT_MM_BV_ID_02	Identity request; unavailable id. type requested; no identity in the reply
	TC_PT_MM_BV_ID_08	Identity request; PARK requested; active PARK returned
PT/MM/BV/AU/	TC_PT_MM_BV_AU_01	Authentication of PT; IUT(PT) has no stored ZAP value and service class info
	TC_PT_MM_BV_AU_02	Authentication of PT; unacceptable algorithm requested; reject
	TC_PT_MM_BV_AU_03	Authentication of PT; IUT(PT) has stored ZAP value; IUT includes ZAP value in the replay
	TC_PT_MM_BV_AU_04	Authentication of PT; ZAP increment handling
	TC_PT_MM_BV_AU_05	Authentication of PT; ZAP increment handling; unsuccessful authentication of FT; ZAP is not incremented
	TC_PT_MM_BV_AU_06	Authentication of PT; storage of DCK handling
	TC_PT_MM_BV_AU_07	Authentication of user
	TC_PT_MM_BV_AU_08	Authentication of FT; IUT initiated
	TC_PT_MM_BV_AU_09	Authentication of PT; IUT(PT) has stored service class info; IUT includes service class info in the replay
(continued)		

Table 7 (continued)

TBR 22: Test Case Index		
PT/MM/BV/LO/	TC_PT_MM_BV_LO_01	Location registration after obtain access rights; a44 and a38=1 at locking; no TPUI assignment
	TC_PT_MM_BV_LO_02	Location registration after obtain access rights; a44 and a38=1 at locking; TPUI assignment
	TC_PT_MM_BV_LO_03	Location registration after obtain access rights; a44=1 and a38=0 at locking; IUT does not perform location registration
	TC_PT_MM_BV_LO_04	Location registration; no CC activities; location area changes; a38=1 at locking and at the beginning of the procedure; no TPUI assignment
	TC_PT_MM_BV_LO_05	No CC activities; power off; power on; Location registration request
	TC_PT_MM_BV_LO_06	Location registration; unacceptable TPUI assignment; reject
	TC_PT_MM_BV_LO_07	Location registration; entering new location area; IUT deletes old TPUI - no TPUI in identity reply sent from IUT
	TC_PT_MM_BV_LO_08	Location update suggested by FT; Location registration initiated by IUT; a38=1 at locking and at the beginning of the procedure
	TC_PT_MM_BV_LO_09	Location update suggested by FT; Location registration initiated by IUT; a38=1 at locking, a38=0 at the beginning of the procedure
PT/MM/BV/AR/	TC_PT_MM_BV_AR_01	Obtain access rights; a44=1; both sides use AC
	TC_PT_MM_BV_AR_03	Obtain access rights; a44=0; IUT does not initiate obtain access rights procedure
	TC_PT_MM_BV_AR_05	Terminate access rights; FT initiated; IUT(PT) may authenticate FT
	TC_PT_MM_BV_AR_06	Terminate access rights; FT initiated; IUT(PT) authenticates FT; authentication fails; termination rejected
	TC_PT_MM_BV_AR_09	Obtain access rights; FT assigns ZAP field; IUT stores it
	TC_PT_MM_BV_AR_10	Obtain access rights; FT assigns service class; IUT stores it
PT/MM/BV/KA/	TC_PT_MM_BV_KA_01	Key allocation
	TC_PT_MM_BV_KA_02	Key allocation; <<Auth type>> unacceptable; reject
	TC_PT_MM_BV_KA_03	Key allocation; implicit authentication of FT fails; key is not allocated
PT/MM/BV/CH/	TC_PT_MM_BV_CH_01	Cipher switching; IUT(PT) initiated; "cipher-off" to "cipher-on"
	TC_PT_MM_BV_CH_02	Cipher switching; IUT(PT) initiated; "cipher-on" to "cipher-off"
	TC_PT_MM_BV_CH_03	Cipher switching; FT initiated; "cipher-off" to "cipher-on"
	TC_PT_MM_BV_CH_04	Cipher switching; FT initiated; "cipher-on" to "cipher-off"
	TC_PT_MM_BV_CH_05	Cipher switching; FT initiated; "cipher-off" to "cipher-on"; unacceptable algorithm or key; reject
	TC_PT_MM_BV_CH_08	Cipher switching; IUT (PT) initiated; "cipher-off" to "cipher-on" fails; release of link
	TC_PT_MM_BV_CH_09	Cipher switching; IUT (PT) initiated; "cipher-off" to "cipher-on"; successful inter-cell bearer handover
	TC_PT_MM_BV_CH_10	Cipher switching; IUT (PT) initiated; "cipher-off" to "cipher-on"; successful intra-cell bearer handover

(continued)

Table 7 (continued)

		TBR 22: Test Case Index	
	TC_PT_MM_BV_CH_11	Cipher switching; IUT (PT) initiated; "cipher-off" to "cipher-on"; "cipher-on" to "cipher-off" fails; release of link	
	TC_PT_MM_BV_CH_12	Cipher switching; FT initiated; "cipher-off" to "cipher-on" fails; release of link	
	TC_PT_MM_BV_CH_13	Cipher switching; FT initiated; "cipher-off" to "cipher-on"; successful inter-cell bearer handover	
	TC_PT_MM_BV_CH_14	Cipher switching; FT initiated; "cipher-off" to "cipher-on"; successful intra-cell bearer handover	
	TC_PT_MM_BV_CH_15	Cipher switching; FT initiated; "cipher-off" to "cipher-on"; "cipher-on" to "cipher-off" fails; release of link	
PT/MM/BO/	TC_PT_MM_BO_01	Location registration request; receipt of {ACCESS-RIGHTS-ACCEPT}; unexpected, ignore	
PT/MM/BI/	TC_PT_MM_BI_01	Unrecognized message type; ignore	
	TC_PT_MM_BI_02	"Cipher off"; {CIPHER-REQUEST}, with invalid <<Cipher info>>; reject	
	TC_PT_MM_BI_03	Authentication of PT; {AUTH-REQUEST} missing <<RAND>>; reject	
	TC_PT_MM_BI_04	Obtain access rights; {ACCESS-RIGHTS-ACCEPT}, wrong <<Portable id>>; ignore	
PT/MM/TI/	TC_PT_MM_TI_01	Key allocation; timer P-<MM_auth.1> expiry ~~(± 5% margin)~~ (+ 5% margin)	
	~~TC_PT_MM_TI_02~~	~~Authentication of FT; timer P-<MM_auth.1> expiry (± 5% margin)~~	
	TC_PT_MM_TI_03	Location registration; just before timer P-<MM_locate.1> expiry ~~(± 5% margin)~~ (- 10% margin)	
	TC_PT_MM_TI_04	Obtain access rights; just before timer P-<MM_access.1> expiry ~~(± 5% margin)~~ (- 10% margin)	
	TC_PT_MM_TI_05	Cipher switching; IUT(PT) initiated; timer P-<MM_cipher.2> expiry ~~(± 5% margin)~~ (- 10% margin)	
PT/ME/BV/	TC_PT_ME_BV_01	Outgoing call; T-01; Authentication of IUT(PT) performed before answering the setup request	
	~~TC_PT_ME_BV_02~~	~~Cipher switching IUT(PT) initiated; Locate update; location registration initiation after "cipher off"~~	
	TC_PT_ME_BV_03	Obtain access rights; Interrupted by Authentication of user	
	TC_PT_ME_BV_04	Obtain access rights; Interrupted by Authentication of IUT(PT)	
	TC_PT_ME_BV_05	Outgoing call and authentication of IUT(PT) in parallel	
~~Test Case Index~~			
	TC_PT_ME_BV_06	Outgoing call and cipher switching FT initiated in parallel	
	TC_PT_ME_BV_07	Outgoing call; T-01; Cipher switching FT initiated performed before answering the setup request	
	~~TC_PT_ME_BV_08~~	~~Outgoing call; T-01; Authentication of user performed before answering the setup request; {CC-NOTIFY} restart timer handling~~	
	TC_PT_ME_BV_09	Cipher on; Store DCK; new DCK not used in the current ciphering	
	TC_PT_ME_BV_10	T-10; a38=1; location area changes; location registration request during the call or in T-00	
	TC_PT_ME_BV_11	Outgoing call; T-01; Terminate access rights FT initiated performed before answering the setup request	
	TC_PT_ME_BV_12	T-10; link fails; IUT clears the call	
	TC_PT_ME_BV_13	Obtain access rights interrupted by key allocation	
		(continued)	

Table 7 (concluded)

TBR 22: Test Case Index		
PT/ME/BO/	TC_PT_ME_BO_01	Authentication of FT interrupted by {AUTH-REQUEST} from FT; ignore
PT/LC/BV/LE/	TC_PT_LC_BV_LE_01	Direct link establishment; IUT initiated
	TC_PT_LC_BV_LE_02	Indirect FT initiated link establishment
PT/LC/BV/LR/	TC_PT_LC_BV_LR_01	Link exists; MM entity ceases to use the link; no other entity uses the link; IUT maintains the link <LCE.02> time
	TC_PT_LC_BV_LR_02	Link exists; CC entity ceases to use the link; no other entity uses the link; normal release
	TC_PT_LC_BV_LR_03	Link exists; CC entity ceases to use the link; partial release agreed; no other entity uses the link; IUT maintains the link <LCE.02> time
PT/LC/BI/	TC_PT_LC_BI_01	Protocol discriminator value error - unsupported service; IUT ignores
	TC_PT_LC_BI_03	{IDENTITY-REQUEST} with illegal transaction id.; ignore
	~~TC_PT_LC_BI_04~~	~~Obtain access rights; {ACCESS-RIGHTS-ACCEPT} with transaction id. flag '0'; ignore~~
PT/LC/TI/	TC_PT_LC_TI_02	MM ceases to use the link; no other entity uses the link; timer <LCE.02> expiry (allowed period: (TSPX_lce_02-1000) ms to 10500 ms)~~(± 5% margin)~~

Detailed Comments:
1. The PT is the IUT.

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Subclause 6.1.2.2

Modify the description of test case " TC_A_BV_002" as follows

	TC_A_CA_006	re-transmission of an I-Frame N250 times
DLC/C_Plane/ClassA/BV/	TC_A_BV_002	I-Frame acknowledgement; accepting~~sending~~ RR response frame with correct N(R)
	TC_A_BV_003	I-Frame acknowledgement; accepting an I-Frame command with correct N(S) and N(R) values as an acknowledgement

Modify the description of test case " TC_A_BI_007" and "TC_A_BI_008" as follows

	TC_A_BI_007	receipt of an I-Frame with invalid N(S); sending RR response frame or I-Frame with the expected N(S); stops, if necessary, DL_04 according to the received N(R)
	TC_A_BI_008	receipt of an I-Frame with invalid N(S) and invalid N(R); RR response frame transmission with expected N(S); unacknowledged I-Frame re-transmission
	TC_A_BI_009	timer re transmission phase; discarding RR Class B response frame, NLF= '0'; re-transmits the unacknowledged I-Frame
	TC_A_BI_011	timer re transmission phase; accepting I-Frame with invalid N(R);<DL-04> expiry; re-transmits the unacknowledged I-Frame with updated N(R)
	TC_A_BI_012	timer re transmission phase; receipt of an I-Frame with invalid N(S); RR response frame or I-Frame, expected N(S); leaves timer re transmission phase

Subclause 6.1.3.1

Delete test group "PT/BH/BV/" from table 10, as follows:

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PT/BH/CA/	Limited testing that the observable capabilities of the IUT concerning the connection oriented bearer handover procedures are in accordance with the static conformance requirements and the additional capabilities claimed in the PROFILE ICS/PROFILE IXIT
~~PT/BH/BV/~~	~~To test the behaviour of the IUT in relation to syntactically and contextual correct behaviour of the test system~~
PT/BR/	Verify the correct implementation of connection oriented bearer release procedures

Delete test group "PT/DT/BV/" from table 10, as follows:

TBR 22: Test Suite Structure PP	
Test Group Reference	**Test Group Objective**
~~PT/DT/BV/~~	~~To test the behaviour of the IUT in relation to syntactically and contextual correct behaviour of the test system~~
PT/DT/BI/	To check the behaviour of the IUT in response to invalid messages

Subclause 6.1.3.2

Delete test cases "TC_PT_BH_BV_00", "TC_PT_BH_BV_01", "TC_PT_DT_CA_03",
"TC_PT_DT_CA_04", "TC_PT_DT_BV_00" and "TC_PT_DT_BV_01" from table 11, as follows:

	TC_PT_BH_CA_01	Active_locked; PT initiated intercell bearer handover using basic setup
~~PT/BH/BV/~~	~~TC_PT_BH_BV_00~~	~~Active_locked; encryption enabled; PT initiated intracell bearer handover~~
	~~TC_PT_BH_BV_01~~	~~Active_locked; encryption enabled; PT initiated intercell bearer handover~~
PT/BR/CA/	TC_PT_BR_CA_00	Active_locked; unacknowledged release; FT sends release message
PT/DT/CA/	TC_PT_DT_CA_00	Active_locked; CS segment re-transmission till acknowledgement in the same ARQ window
	TC_PT_DT_CA_01	Active_locked; no transmission of new CS segment before acknowledgement
	TC_PT_DT_CA_02	Active_locked; numbering of the CS segments
	~~TC_PT_DT_CA_03~~	~~Active_locked; basic connection; switch on encryption mode~~
	~~TC_PT_DT_CA_04~~	~~Active_locked; basic connection; switch off encryption mode~~
~~PT/DT/BV/~~	~~TC_PT_DT_BV_00~~	~~Active_locked; basic connection; switch on encryption mode failure; connection release~~
	~~TC_PT_DT_BV_01~~	~~Active_locked; basic connection; switch off encryption mode failure; connection release~~
PT/DT/BI/	TC_PT_DT_BI_00	Active_locked; IN minimum_delay data, A-field R-CRC error handling; respond Q2=0

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Subclause 6.1.4.3

Add the following note:

> NOTE: This modification is not required for TBR 6 edition 2.

Subclause 6.1.4.4

Add the following note:

> NOTE: This modification is not required for TBR 6 edition 2.