TSG-RAN Meeting #17 Biarritz, France, 3 - 6 September 2002

Title: Agreed CRs (Rel-4 and Rel-5 category A) to TS 25.331

Source: TSG-RAN WG2

Agenda item: 7.2.4

Doc-1st-	Status-	Spec	CR	Rev	Phase	Subject	Cat	Versio	Versio
R2-022382	agreed	25.331	1656		Rel-4	Corrections to open loop power control for 1.28 Mcps TDD	F	4.5.0	4.6.0
R2-022383	agreed	25.331	1657		Rel-5	Corrections to open loop power control for 1.28 Mcps TDD	Α	5.1.0	5.2.0
R2-022384	agreed	25.331	1658		Rel-4	RLC entity re-establishment during SRNS relocation	F	4.5.0	4.6.0
R2-022385	agreed	25.331	1659		Rel-5	RLC entity re-establishment during SRNS relocation	Α	5.1.0	5.2.0
R2-022395	agreed	25.331	1662		Rel-4	Reintroduction of IE "SRB delay" in Rel-4 ASN.1	F	4.5.0	4.6.0
R2-022396	agreed	25.331	1663		Rel-5	Reintroduction of IE "SRB delay" in Rel-4 ASN.1	Α	5.1.0	5.2.0
R2-022397	agreed	25.331	1664		Rel-4	Corrections to ASN.1 for SRNC relocation container	F	4.5.0	4.6.0
R2-022398	agreed	25.331	1665		Rel-5	Corrections to ASN.1 for SRNC relocation container	Α	5.1.0	5.2.0
R2-022393	agreed	25.331	1666		Rel-4	Unused values in ASN.1	F	4.5.0	4.6.0
R2-022394	agreed	25.331	1667		Rel-5	Unused values in ASN.1	Α	5.1.0	5.2.0

3GPP TSG-RAN WG2 Meeting #31 Stockholm, Arlanda, Sweden, 19th – 23rd August 2002

CHANGE REQUEST											
*	25331	CR 1656	≋ rev	- #	Current version:	4.5.0	æ				

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the \$\mathbb{X}\$ symbols.

Proposed chang	ge a	affects:	UICC apps#	M	E 🗶 Radio Ac	cess Netwo	k X Core Netw	ork
T:410	90	Carrage	ione on Dawer C	ontrol for 1	20 Mara TDD			
Title:	ж	Correct	ions on Power C	ontrol for 1	.28 Michs 100			
Source:	ж	TSG-R	AN WG2					
Work item code	: X	LCRTD	D-L23			Date: ₩	05/08/2002	
_								
Category:	ж	F				Release: ₩	Rel-4	
		Use <u>one</u>	of the following cat	egories:		Use <u>one</u> of	the following releas	ses:
		F (0	correction)			2	(GSM Phase 2)	
		A (0	corresponds to a co	rrection in a	n earlier release,) R96	(Release 1996)	
		B (a	addition of feature),			R97	(Release 1997)	
		C (f	unctional modificat	ion of featur	e)	R98	(Release 1998)	
		D (6	editorial modification	n)	•	R99	(Release 1999)	
		Detailed e	explanations of the	above cate	gories can	Rel-4	(Release 4)	
			in 3GPP TR 21.900		•	Rel-5	(Release 5)	
				_		Rel-6	(Release 6)	

Reason for change: #

Subclause 8.2.10.3 describes the UE behavior upon reception of the message UPLINK PHYSICAL CHANNEL CONTROL for 3.84 Mcps TDD only. However, this message is used for 1.28 Mcps TDD also. Therefore it is proposed to add a description for 1.28 Mcps TDD.

The description of the UE behavior upon reception of the IE "Uplink DPCH power control info" in subclause 8.6.6.11 is unclear and incorrect:

According to the current description the transmission power should not change if the IE "Uplink DPCH power control info" is not included. However, this means that closed loop power control is switched off every time the IE is not included. It

that closed loop power control is switched off every time the IE is not included. It is proposed to change the description so that closed loop power control can be maintained.

Furthermore the UE behaviour if IE "PRX_{PDPCHdes}" or IE "TPC step size" are not included in IE "Uplink DPCH power control info" should be described.

In 11.3 the IE "IndividualTS-InterferenceList-r4" and IE "IndividualTS-Interference-LCR-r4" are part of the ASN1 code however they are never used. Since the Uplink Timeslot Interference is not needed in 1.28 Mcps TDD it is proposed to delete these IEs.

Impact analysis: Affected feature: Uplink power control for 1.28 Mcps TDD

The change in 8.2.10.3 is for clarification and has therefore no impact. The change in 8.6.6.11 has isolated impact to uplink power control for 1.28 Mcps as it describes the UE behaviour if some related IEs are not included. The change in 11.3 has no impact since the deleted IEs in ASN1 have never been called.

Summary of change:
In 8.2.10.3. the UE behavior upon reception of IEs in Uplink Physical Channel Control message is described for 1.28 Mcps TDD also.

In 8.6.6.11 the description of the UE behavior if the IE "Uplink DPCH power control info" is not included is corrected. The description of the case that the IE "PRX_{PDPCHdes}" or IE "TPC step size" are not included in IE "Uplink DPCH power control info" is added.

In 11.3 the IE "IndividualTS-InterferenceList-r4" and IE "IndividualTS-Interference-LCR-r4" are deleted.

Consequences if not approved:

The specification of open loop power control and closed loop power control for 1.28 Mcps TDD is incomplete and incorrect. The UE behavior is not clearly defined if some IEs are not signalled from the UTRAN to the UE.

Clauses affected:	8.2.10.3 , 8.6.6.11, 11.3 Y N
Other specs affected:	 X O&M Specifications
Other comments:	*

How to create CRs using this form:

- 1) Fill out the above form. The symbols above marked \$\mathbb{X}\$ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.2.10.3 Reception of UPLINK PHYSICAL CHANNEL CONTROL message by the UE

Upon reception of the UPLINK PHYSICAL CHANNEL CONTROL message, the UE shall:

1> act upon all received information elements as specified in subclause 8.6.

In 1.28 Mcps TDD, if the IE "Uplink DPCH Power Control Info" is transmitted, this information shall be taken into account by the UE for uplink open loop power control as specified in subclause 8.5.7 and for uplink closed loop power control.

In 3.84 Mcps TDD, if the IEs "Uplink DPCH Power Control Info", "PRACH Constant Value", "PUSCH Constant Value", "Alpha" or IE group "list of UL Timeslot Interference" are transmitted, this information shall be taken into account by the UE for uplink open loop power control as specified in subclause 8.5.7. If the UE is capable of using IPDLs for UE positioning, the IE "IPDL-Alpha" shall be used instead of the IE "Alpha". If the IE "IPDL-Alpha" parameter is not present, the UE shall use IE "Alpha".

If the IE Special Burst Scheduling is transmitted the UE shall:

1> use the new value for the "Special Burst Generation Period".

The UE shall:

- 1> clear the entry for the UPLINK PHYSICAL CHANNEL CONTROL message in the table "Accepted transactions" in the variable TRANSACTIONS;
- 1> and the procedure ends.

8.6.6.11 Uplink DPCH power control info

The UE shall:

- 1> in FDD:
 - 2> if the IE "Uplink DPCH power control info" is included:
 - 3> if a synchronisation procedure is performed according to [29]:
 - 4> calculate and set an initial uplink transmission power;
 - 4> start inner loop power control as specified in subclause 8.5.3;
 - 4> for the UL inner loop power control:
 - 5> use the parameters specified in the IE.
 - 3> else:
 - 4> act on the IE "Power control algorithm" and the IE "TPC step size" if included and ignore any other IEs that are included.
- 1> in 3.84 Mcps TDD:
 - 2> if the IE "Uplink DPCH power control info" is included:
 - 3> use the parameters specified in the IE for open loop power control as defined in subclause 8.5.7.
 - 2> else:
 - 3> use the current uplink transmission power.

- 1> in 1.28 Mcps TDD:
 - 2> 2> if the IE "Uplink DPCH power control info" is included and:
 - 3> if the IE " PRX_{PDPCHdes} " is included:
 - 43> calculate and set an initial uplink transmission power;
 - 43> start inner loop power control; if the IE "TPC step size" is included
 - <u>53></u> for the UL inner loop power control: use this IE upon reception of TPC commands for closed loop power control.
 - 4> use the parameter specified in the Ie.else:
 - 5> use the current value of this IE upon reception of TPC commands for closed loop power control.
 - <u>3> else:</u>
 - 4> if the IE " TPC step size" is included:
 - 5> use this IE for closed loop power control.
 - 4> else:
 - 5> ignore the IE "Uplink DPCH power control info"
 - 2> else:
 - 3> use the current uplink transmission power.
- 1> both in FDD and TDD;
 - 2> if the IE "Uplink DPCH power control info" is not included in a message used to enter CELL_DCH:
 - 3> set the variable INVALID_CONFIGURATION to true.

11.3 Information element definitions

```
IndividualTS-Interference ::=
                             SEQUENCE {
                                     TimeslotNumber,
   timeslot
   ul-TimeslotInterference
                                     TDD-UL-Interference
IndividualTS-Interference-LCR-r4 ::=
                                        SEQUENCE {
                                TimeslotNumber-LCR-r4,
  timeslot
IndividualTS-InterferenceList ::= SEQUENCE (SIZE (1..maxTS)) OF
                                     IndividualTS-Interference
IndividualTS-InterferenceList-r4 ::= CHOICE {
  tdd384
                                     SEQUENCE (SIZE (1..maxTS)) OF
                                            IndividualTS-Interference,
  tdd128
                                      SEQUENCE (SIZE (1..maxTS-LCR)) OF
                                             IndividualTS Interference LCR r4
}
ITP ::=
                                  ENUMERATED {
                                     mode0, mode1 }
```

3GPP TSG-RAN WG2 Meeting #31 Stockholm, Arlanda, Sweden, 19th – 23rd August 2002

	(CHANG	E REQ	UE	ST	-		CR-Form-v7
*	25331 CR	1657	жrev	-	¥	Current version:	5.1.0	*

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

Proposed chang	ge a	affects:	UICC apps#	M	E 🗶 Radio Ac	cess Netwo	k X Core Netw	ork 🔃
Title:	¥	Correct	ions on Power Cor	trol for 1	.28 Mcps TDD			
					•			
Source:	\mathfrak{H}	TSG-R	AN WG2					
Work item code	<i>:</i> Ж	LCRTD	D-L23			Date: ₩	05/08/2002	
Category:	ж	Α				Release: ₩	Rel-5	
		Use <u>one</u> (of the following categ	ories:		Use <u>one</u> of	the following releas	ses:
			orrection)			2	(GSM Phase 2)	
		A (0	corresponds to a corr	ection in a	n earlier release)) R96	(Release 1996)	
		B (a	nddition of feature),			R97	(Release 1997)	
		C (f	unctional modification	n of featur	e)	R98	(Release 1998)	
		D (6	editorial modification)			R99	(Release 1999)	
		Detailed 6	explanations of the a	oove cate	gories can	Rel-4	(Release 4)	
			in 3GPP TR 21.900.	·		Rel-5	(Release 5)	
						Rel-6	(Release 6)	

Reason for change: % Shadow CR

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Clauses affected:	8.2.10.3 , 8.6.6.11 , 11.3
Other specs affected:	# X Other core specifications # Test specifications O&M Specifications
Other comments:	∺

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- 1> in 3.84 Mcps TDD:
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 - 3> use the parameters specified in the IE for open loop power control as defined in subclause 8.5.7.
 - 2> else:
 - 3> use the current uplink transmission power.

```
1> in 1.28 Mcps TDD:
```

- 2> 2> if the IE "Uplink DPCH power control info" is included and:
 - 3> if the IE " PRX_{PDPCHdes_"} is included:
 - 43> calculate and set an initial uplink transmission power;
 - 43> start inner loop power control; if the IE " TPC step size" is included
 - <u>53></u> for the UL inner loop power control: use this IE upon reception of TPC commands for closed loop power control.
 - 4> use the parameter specified in the Ie.else:
 - 5> use the current value of this IE upon reception of TPC commands for closed loop power control.

3> else:

- 4> if the IE " TPC step size" is included:
 - 5> use this IE for closed loop power control.
- 4> else:
 - 5> ignore the IE "Uplink DPCH power control info"

2> else:

3> use the current uplink transmission power.

- 1> both in FDD and TDD;
 - 2> if the IE "Uplink DPCH power control info" is not included in a message used to enter CELL_DCH:
 - 3> set the variable INVALID_CONFIGURATION to true.

11.3 Information element definitions

```
IndividualTS-Interference ::=
                                  SEQUENCE {
                                     TimeslotNumber,
    timeslot
    ul-TimeslotInterference
                                     TDD-UL-Interference
IndividualTS-Interference-LCR-r4 ::=
                                         SEOUENCE {
                                  TimeslotNumber-LCR-r4,
   timeslot
    ul-TimeslotInterference
                             IndividualTS-InterferenceList ::= SEQUENCE (SIZE (1..maxTS)) OF
                                     IndividualTS-Interference
IndividualTS-InterferenceList-r4 ::=
                                    -CHOICE {
   +dd384
                                         SEQUENCE (SIZE (1..maxTS)) OF
                                             IndividualTS-Interference,
    tdd128
                                         SEQUENCE (SIZE (1..maxTS-LCR)) OF
                                             IndividualTS Interference LCR r4
}
ITP ::=
                                  ENUMERATED {
                                     mode0, mode1 }
```

3GPP TSG-RAN WG2 meeting #31 Stockholm, Sweden, 19th - 23th August 2002

			С	HAN	GE F	REQ	UE	ST					CR-Form-v7
*	25	.331	CR 1	658	ж	rev	-	¥	Currer	nt vers	ion:	4.5.0	ж
For <u>HELP</u> on u	ısing i	this for	rm, see k	oottom o	f this pa	age or	look a	at the	рор-и	p text	over	the # sy	mbols.
Proposed change	affec	<i>ts:</i> \	JICC ap	os# 🔼	I	ME X	Rad	dio Ac	cess N	letwor	·k	Core No	etwork
Title:	Corr	ection	to RLC	entity re-	-establis	shmen	nt duri	ing SI	RNS re	elocation	on		
Source: #	TS	G-RAN	WG2										
Work item code: ₩	TE	4							Da	ite: ♯	22/	08/2002	
Category:	Deta	F (corr A (corr B (add C (fund D (edia iled exp	the follow rection) responds dition of fe ctional mo- torial mod blanations 3GPP TF	to a corre eature), odification lification) s of the al	ection in	ure)		elease,	2) R! R! R! R! Re	<u>one</u> of 96 97 98 99	(GSM (Rele (Rele (Rele (Rele (Rele	l-4 M Phase 2) Pase 1996) Pase 1997) Pase 1999) Pase 4) Pase 5) Pase 6)	
Reason for change	e: #	In the	e last RA	N2 mee	etina (#3	30). R2	2-021	580 v	vas pro	posed	d to a	ddress th	e issue
3.		of RI RRC perfo	_C entity state is	re-estat CELL_F cording	olishme PCH or to the o	nt duri URA_l current	ing th PCH, t RRC	e SRI RLC spec	NS relo	ocation re-est	n pro ablisł	cedure. If nment wil greed tha	the new I not be
Summary of chang	ge: ₩	als the the	so re-est e HFNs (ablish th of the C0 sful tran	ne RLC OUNT-(Ismissio	entitie C for th on of th	s of the	he rad radio	dio bea bearer	arers/S s whe	RBs n RL	n, the UE and re-in C has cor new RRC	itialise nfirmed
		Isola	ited Imp	act Cha	nge Ar	nalysis	S.						
				•					•			relocation	
			sible mal e UE; the								ge ha	s isolated	l impact
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Consequences if not approved:	\mathfrak{H}		UTRAN S reloca									update a PCH.	ind
Clauses affected:	ж	8.3.1	.7										
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Other specs affected:	>	Other core specifications Test specifications O&M Specifications	*		
Other comments:	ж				

How to create CRs using this form:

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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.3.1.7 Transmission of a response message to UTRAN

If the CELL UPDATE CONFIRM message:

- includes the IE "RB information to release list":

the UE shall:

1> transmit a RADIO BEARER RELEASE COMPLETE as response message using AM RLC.

If the CELL UPDATE CONFIRM message:

- does not include the IE "RB information to release list"; and
- includes the IE "RB information to reconfigure list"; or
- includes the IE "RB information to be affected list":

the UE shall:

1> transmit a RADIO BEARER RECONFIGURATION COMPLETE as response message using AM RLC.

If the CELL UPDATE CONFIRM message:

- does not include "RB information elements"; and
- includes "Transport channel information elements":

the UE shall:

1> transmit a TRANSPORT CHANNEL RECONFIGURATION COMPLETE as response message using AM RLC.

If the CELL UPDATE CONFIRM message:

- does not include "RB information elements"; and
- does not include "Transport channel information elements"; and
- includes "Physical channel information elements":

the UE shall:

1> transmit a PHYSICAL CHANNEL RECONFIGURATION COMPLETE as response message using AM RLC.

If the CELL UPDATE CONFIRM message:

- does not include "RB information elements"; and
- does not include "Transport channel information elements"; and
- does not include "Physical channel information elements"; and
- includes "CN information elements"; or
- includes the IE "Ciphering mode info"; or
- includes the IE "Integrity protection mode info"; or
- includes the IE "New C-RNTI"; or
- includes the IE "New U-RNTI":

the UE shall:

1> transmit a UTRAN MOBILITY INFORMATION CONFIRM as response message using AM RLC.

If the CELL UPDATE CONFIRM message:

- does not include "RB information elements"; and
- does not include "Transport channel information elements"; and
- does not include "Physical channel information elements"; and
- does not include "CN information elements"; and
- does not include the IE "Ciphering mode info"; and
- does not include the IE "Integrity protection mode info"; and
- does not include the IE "New C-RNTI"; and
- does not include the IE "New U-RNTI":

the UE shall:

1> transmit no response message.

If the URA UPDATE CONFIRM message:

- includes "CN information elements"; or
- includes the IE "Ciphering mode info"; or
- includes the IE "Integrity protection mode info"; or
- includes any one or both of the IEs "New C-RNTI" and "New U-RNTI":

the UE shall:

1> transmit a UTRAN MOBILITY INFORMATION CONFIRM as response message using AM RLC.

If the URA UPDATE CONFIRM message:

- does not include "CN information elements"; and
- does not include the IE "Ciphering mode info"; and
- does not include the IE "Integrity protection mode info"; and
- does not include the IE "New U-RNTI"; and
- does not include the IE "New C-RNTI":

the UE shall:

1> transmit no response message.

If the new state is CELL_DCH or CELL_FACH, the response message shall be transmitted using the new configuration after the state transition., and the UE shall:

- 1> if the IE "Downlink counter synchronisation info" was included in the received CELL UPDATE CONFIRM or URA UPDATE CONFIRM message:
 - 2> when RLC has confirmed the successful transmission of the response message:
 - 3> re-establish all AM and UM RLC entities with RB identities larger than 4 and set the first 20 bits of all the HFN component of the respective COUNT-C values to the START value included in the response message for the corresponding CN domain;
 - 3> re-establish the RLC entities with RB identities 1, 3 and 4 and set the first 20 bits of all the HFN component of the respective COUNT-C values to the START value included in the response message for the CN domain stored in the variable LATEST_CONFIGURED_CN_DOMAIN;
 - 3> set the remaining bits of the HFN component of the COUNT-C values of all UM RLC entities to zero;

- 3> re-initialise the PDCP header compression entities of each radio bearer in the variable ESTABLISHED_RABS as specified in [36].
- 1> if the variable PDCP_SN_INFO is empty:
 - 2> if the CELL UPDATE CONFIRM or URA UPDATE CONFIRM message contained the IE "Ciphering mode info":
 - 3> when RLC has confirmed the successful transmission of the response message:
 - 4> continue with the remainder of the procedure.
 - 2> if the CELL UPDATE CONFIRM or URA UPDATE CONFIRM message did not contain the IE "Ciphering mode info":
 - 3> when RLC has been requested to transmit the response message,
 - 4> continue with the remainder of the procedure.
- 1> if the variable PDCP_SN_INFO non-empty:
 - 2> when RLC has confirmed the successful transmission of the response message:
 - 3> for each radio bearer in the variable PDCP_SN_INFO:
 - 4> if the IE "RB started" in the variable ESTABLISHED RABS is set to "started":
 - 5> configure the RLC entity for that radio bearer to "continue".
 - 3> continue with the remainder of the procedure.

If the new state is CELL_PCH or URA_PCH, the response message shall be transmitted in CELL_FACH state, and the UE shall:

- 1> when RLC has confirmed the successful transmission of the response message:
 - 2> if the IE "Downlink counter synchronisation info" was included in the received CELL UPDATE CONFIRM or URA UPDATE CONFIRM message:
 - 3> re-establish all AM and UM RLC entities with RB identities larger than 4 and set the first 20 bits of all the HFN component of the respective COUNT-C values to the START value included in the response message for the corresponding CN domain;
 - 3> re-establish the RLC entities with RB identities 1, 3 and 4 and set the first 20 bits of all the HFN component of the respective COUNT-C values to the START value included in the response message for the CN domain stored in the variable LATEST_CONFIGURED_CN_DOMAIN;
 - 3> set the remaining bits of the HFN component of the COUNT-C values of all UM RLC entities to zero;
 - 3> re-initialise the PDCP header compression entities of each radio bearer in the variable ESTABLISHED_RABS as specified in [36].
 - 2> for each radio bearer in the variable PDCP_SN_INFO:
 - 3> if the IE "RB started" in the variable ESTABLISHED RABS is set to "started":
 - 4> configure the RLC entity for that radio bearer to "continue".
 - 2> enter the new state (CELL_PCH or URA_PCH, respectively).
- 1> continue with the remainder of the procedure.

3GPP TSG-RAN WG2 meeting #31 Stockholm, Sweden, 19th - 23th August 2002

			(CHAN	GE	REG	UE	ST	•				CR-Form-v7
*	25	.331	CR	1659	1	≋ rev	-	ж	Current	versi	on:	5.1.0	Ж
For <u>HELP</u> on u	ising t	this for	rm, see	bottom o	of this	page oi	r look	at th	e pop-up	text o	over t	he ₩ sy	mbols.
Proposed change	affec	ts: \	UICC a	pps#		ME X	(Ra∈	dio A	ccess Ne	twork	(Core N	etwork
					_		_						
Title: ♯	Corr	ection	to RLC	C entity re	e-estat	olishme	nt dur	ing S	SRNS relo	catio	n		
Source: #	TS	G-RAN	NWG2										
Work item code: ₩	TEI	14							Date	e: Ж	09/0	8/2002	
Category: ₩	Deta be fo	F (con A (con B (add C (fun D (edi iled exp ound in	rection) respond dition of ctional i torial m planatio 3GPP	ds to a cor feature), modification odification ns of the a FR 21.900	rrection on of fe) above o	in an ea ature) categorie	es can	1580	2 e) R96 R97 R98 R99 Rel- Rel- Rel-	ne of the (6) (6) (7) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	GSM (Relea (Relea (Relea (Relea (Relea (Relea (Relea	owing re Phase 2, ase 1996, ase 1997, ase 1999, ase 4) ase 5) ase 6)))))) ne issue
		RRC perfo	state ormed	is CELL_	PCH of	or URA_ e curren	PCH t RR(, RLC C spe	RNS reloc C entity re ecification	-esta	blish	ment wil	I not be
Summary of chang	ge: ₩	als th th	so re-e e HFN: e succ	stablish t s of the C	he RL OUNT nsmiss	C entition -C for the sion of the sion of the side of	es of these	the ra	nd SRNS adio beare bearers se messa	ers/SI when	RBs a	and re-ir has co	nitialise nfirmed
		Isola	ated Im	pact Ch	ange <i>i</i>	Analysi	s.						
		Impa	acted fu	unctionali	ty: Coı	mbined	Cell/l	JRA	update ar	nd SF	RNS r	elocatio	n.
									CR. The cl his chang		e has	isolated	d impact
									g like indic cted functi				ould
Consequences if not approved:	ж								ombined (and
Clauses affected:	ж	8.3.1	1.7										

YN

Other specs affected:	Ħ	X	Other core specifications Test specifications O&M Specifications	¥	
Other comments:	æ				

How to create CRs using this form:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.3.1.7 Transmission of a response message to UTRAN

If the CELL UPDATE CONFIRM message:

- includes the IE "RB information to release list":

the UE shall:

1> transmit a RADIO BEARER RELEASE COMPLETE as response message using AM RLC.

If the CELL UPDATE CONFIRM message:

- does not include the IE "RB information to release list"; and
- includes the IE "RB information to reconfigure list"; or
- includes the IE "RB information to be affected list":

the UE shall:

1> transmit a RADIO BEARER RECONFIGURATION COMPLETE as response message using AM RLC.

If the CELL UPDATE CONFIRM message:

- does not include "RB information elements"; and
- includes "Transport channel information elements":

the UE shall:

1> transmit a TRANSPORT CHANNEL RECONFIGURATION COMPLETE as response message using AM RLC.

If the CELL UPDATE CONFIRM message:

- does not include "RB information elements"; and
- does not include "Transport channel information elements"; and
- includes "Physical channel information elements":

the UE shall:

1> transmit a PHYSICAL CHANNEL RECONFIGURATION COMPLETE as response message using AM RLC.

If the CELL UPDATE CONFIRM message:

- does not include "RB information elements"; and
- does not include "Transport channel information elements"; and
- does not include "Physical channel information elements"; and
- includes "CN information elements"; or
- includes the IE "Ciphering mode info"; or
- includes the IE "Integrity protection mode info"; or
- includes the IE "New C-RNTI"; or
- includes the IE "New U-RNTI":

the UE shall:

1> transmit a UTRAN MOBILITY INFORMATION CONFIRM as response message using AM RLC.

If the CELL UPDATE CONFIRM message:

- does not include "RB information elements"; and
- does not include "Transport channel information elements"; and
- does not include "Physical channel information elements"; and
- does not include "CN information elements"; and
- does not include the IE "Ciphering mode info"; and
- does not include the IE "Integrity protection mode info"; and
- does not include the IE "New C-RNTI"; and
- does not include the IE "New U-RNTI":

the UE shall:

1> transmit no response message.

If the URA UPDATE CONFIRM message:

- includes "CN information elements"; or
- includes the IE "Ciphering mode info"; or
- includes the IE "Integrity protection mode info"; or
- includes any one or both of the IEs "New C-RNTI" and "New U-RNTI":

the UE shall:

1> transmit a UTRAN MOBILITY INFORMATION CONFIRM as response message using AM RLC.

If the URA UPDATE CONFIRM message:

- does not include "CN information elements"; and
- does not include the IE "Ciphering mode info"; and
- does not include the IE "Integrity protection mode info"; and
- does not include the IE "New U-RNTI"; and
- does not include the IE "New C-RNTI":

the UE shall:

1> transmit no response message.

If the new state is CELL_DCH or CELL_FACH, the response message shall be transmitted using the new configuration after the state transition., and the UE shall:

- 1> if the IE "Downlink counter synchronisation info" was included in the received CELL UPDATE CONFIRM or URA UPDATE CONFIRM message:
 - 2> when RLC has confirmed the successful transmission of the response message:
 - 3> re-establish all AM and UM RLC entities with RB identities larger than 4 and set the first 20 bits of all the HFN component of the respective COUNT-C values to the START value included in the response message for the corresponding CN domain;
 - 3> re-establish the RLC entities with RB identities 1, 3 and 4 and set the first 20 bits of all the HFN component of the respective COUNT-C values to the START value included in the response message for the CN domain stored in the variable LATEST_CONFIGURED_CN_DOMAIN;
 - 3> set the remaining bits of the HFN component of the COUNT-C values of all UM RLC entities to zero;

- 3> re-initialise the PDCP header compression entities of each radio bearer in the variable ESTABLISHED_RABS as specified in [36].
- 1> if the variable PDCP_SN_INFO is empty:
 - 2> if the CELL UPDATE CONFIRM or URA UPDATE CONFIRM message contained the IE "Ciphering mode info":
 - 3> when RLC has confirmed the successful transmission of the response message:
 - 4> continue with the remainder of the procedure.
 - 2> if the CELL UPDATE CONFIRM or URA UPDATE CONFIRM message did not contain the IE "Ciphering mode info":
 - 3> when RLC has been requested to transmit the response message,
 - 4> continue with the remainder of the procedure.
- 1> if the variable PDCP_SN_INFO non-empty:
 - 2> when RLC has confirmed the successful transmission of the response message:
 - 3> for each radio bearer in the variable PDCP_SN_INFO:
 - 4> if the IE "RB started" in the variable ESTABLISHED_RABS is set to "started":
 - 5> configure the RLC entity for that radio bearer to "continue".
 - 3> continue with the remainder of the procedure.

If the new state is CELL_PCH or URA_PCH, the response message shall be transmitted in CELL_FACH state, and the UE shall:

- 1> when RLC has confirmed the successful transmission of the response message:
 - 2> if the IE "Downlink counter synchronisation info" was included in the received CELL UPDATE CONFIRM or URA UPDATE CONFIRM message:
 - 3> re-establish all AM and UM RLC entities with RB identities larger than 4 and set the first 20 bits of all the HFN component of the respective COUNT-C values to the START value included in the response message for the corresponding CN domain;
 - 3> re-establish the RLC entities with RB identities 1, 3 and 4 and set the first 20 bits of all the HFN component of the respective COUNT-C values to the START value included in the response message for the CN domain stored in the variable LATEST_CONFIGURED_CN_DOMAIN;
 - 3> set the remaining bits of the HFN component of the COUNT-C values of all UM RLC entities to zero;
 - 3> re-initialise the PDCP header compression entities of each radio bearer in the variable ESTABLISHED_RABS as specified in [36].
 - 2> for each radio bearer in the variable PDCP_SN_INFO:
 - 3> if the IE "RB started" in the variable ESTABLISHED RABS is set to "started":
 - 4> configure the RLC entity for that radio bearer to "continue".
 - 2> enter the new state (CELL_PCH or URA_PCH, respectively).
- 1> continue with the remainder of the procedure.

3GPP TSG-WG2 Meeting #31 Arlanda, Stockholm, Sweden, 19th – 23rd August 2002

			CHAN	NGE R	EQU	IES1	Γ			CR-Form-v7
*	25.3	331	CR 1662	жr	ev	- #	Current ve	rsion:	4.5.0	¥
For <u>HELP</u> on u	sing th	is form	, see bottom	of this pag	ge or lo	ok at tl	ne pop-up te	xt over	the # syl	mbols.
Proposed change a	affects	s: UI	CC appsж	M	IE X F	Radio <i>I</i>	Access Netw	ork X	Core Ne	etwork
Title: 第	Rein	troduc	tion of IE "SR	B delay" in	R4 AS	SN.1				
Source: #	TSG	-RAN	WG2							
Work item code: ₩	TEI4						Date:	¥ <mark>9/0</mark>	8/2002	
Category: ₩	F A B C D Detaile	(corre	e following catection) sponds to a color of feature), ional modification anations of the GPP TR 21.90	orrection in a ion of featur n) above cate	·e)		2	of the fo (GSI (Rele (Rele (Rele (Rele (Rele (Rele	el-4 ollowing related Phase 2) ease 1996) ease 1997) ease 1999) ease 4) ease 5) ease 6)	
Reason for change	e: #	(i)					meter 'SRB			SN1
Summary of chang	je: % (The prochange	To change 'handoverG	the labelling froup' to 'in ges do not to the prevone parame ollinfo-r4 in the label 'ha owerContre	ng of the advision of the table that	e 'UL (allySign ular de solated ersion 3-delay n 11.3.	of the specify to the IE UI	choice ler to n the IE cause the cause the cause the cause the	in the ASN nake it cor (10.3.6.91 he R4 mes H-	nsistent). ssage Is
Consequences if not approved:		The Region.	el-4 ASN1 de	escription o	f the IE	: 'Uplin	k DPCH pov	ver cor	ntrol info' v	vill be in
Clauses affected:	¥ <mark>1</mark>	1.3								
Other specs affected:	*	X	Other core sp Fest specifica O&M Specific	ations	s 8	#				
Other comments:	æ									

How to create CRs using this form:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

11.3 Information element definitions

```
[...]
  UL-DPCH-InfoPredef ::=
                                       SEQUENCE {
                                           UL-DPCH-PowerControlInfoPredef,
      ul-DPCH-PowerControlInfo
                                           CHOICE {
      modeSpecificInfo
          fdd
                                                SEQUENCE {
                                                    BOOLEAN,
              tfci-Existence
                                                    PuncturingLimit
              puncturingLimit
          tdd
                                                SEQUENCE {
              commonTimeslotInfo
                                                    CommonTimeslotInfo
      }
  UL-DPCH-PowerControlInfo ::=
                                       CHOICE {
                                           SEQUENCE {
          dpcch-PowerOffset
                                                DPCCH-PowerOffset,
          pc-Preamble
                                                PC-Preamble,
          sRB-delay
                                                SRB-delay,
          -- TABULAR: TPC step size nested inside PowerControlAlgorithm
          powerControlAlgorithm
                                               PowerControlAlgorithm
      },
      tdd
                                           SEQUENCE {
          ul-TargetSIR
                                               UL-TargetSIR
                                                                             OPTIONAL,
                                                CHOICE {
          ul-OL-PC-Signalling
              broadcast-UL-OL-PC-info
                                                  NULL,
              individuallySignalledhandoverGroup
                                                                         SEQUENCE {
                   individualTS-InterferenceList IndividualTS-InterferenceList, dpch-ConstantValue ConstantValueTdd,
                  dpch-ConstantValue
                   primaryCCPCH-TX-Power
                                                      PrimaryCCPCH-TX-Power
          }
                                                                             OPTIONAL
      }
  }
  UL-DPCH-PowerControlInfo-r4 ::=
                                       CHOICE {
                                           SEQUENCE {
      fdd
          dpcch-PowerOffset
                                                DPCCH-PowerOffset,
          pc-Preamble
                                                PC-Preamble,
                                                SRB-delay,
          -- TABULAR: TPC step size nested inside PowerControlAlgorithm
          powerControlAlgorithm
                                                PowerControlAlgorithm
      },
                                           SEQUENCE {
          -- The IE ul-TargetSIR corresponds to PRX-PDPCHdes for 1.28Mcps TDD
          -- Actual value PRX-PDPCHdes = (value of IE "ul-TargetSIR" - 120)
          ul-TargetSIR
                                                UL-TargetSIR
                                                                             OPTIONAL.
          ul-OL-PC-Signalling
              broadcast-UL-OL-PC-info
                                                    NULL,
                                                                         SEQUENCE {
I
              individually Signalled \\ \frac{handover Group}{}
                   tddOption
                                                        CHOICE {
                                                            SEQUENCE {
                           individualTS-InterferenceList
                                                                IndividualTS-
  InterferenceList,
                           dpch-ConstantValue
                                                                ConstantValue
                       tdd128
                                                            SEQUENCE {
                           tpc-StepSize
                                                                TPC-StepSizeTDD
                   },
                   primaryCCPCH-TX-Power
                                                        PrimaryCCPCH-TX-Power
```

```
}
}
UL-DPCH-PowerControlInfoPostFDD ::= SEQUENCE {
    -- DPCCH-PowerOffset2 has a smaller range to save bits dpcch-PowerOffset DPCCH-PowerOffset2, pc-Preamble PC-Preamble, SRB-delay
}

[...]
```

3GPP TSG-WG2 Meeting #31 Arlanda, Stockholm, Sweden, 19th – 23rd August 2002

CHANGE REQUEST					orm-v7			
*	25	.331	CR 1663	≋ rev	- #	Current versi	on: 5.1.0 **	
For <u>HELP</u> on u	sing	this fori	m, see bottom of	this page or	look at th	e pop-up text	over the % symbols	S.
Proposed change a	affec	<i>ts:</i>	IICC apps ⋇	ME X	Radio A	ccess Networ	k X Core Networ	k
Title: 第	Rei	ntroduc	tion of IE "SRB d	elay" in R4 A	ASN.1			
Source: #	TS	G-RAN	WG2					
Work item code: ₩	TE	14				Date: ♯	9/08/2002	
Category:	Deta	F (corred) A (corred) B (add) C (function D (edited)	he following catego ection) esponds to a correction of feature), etional modification orial modification) lanations of the about 18 of 18	ction in an ear		2 R96 R97 R98 R99 Rel-4 Rel-5	Rel-5 the following releases (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6)	:
Reason for change	e: #	(i)	To correct the	omission of	the paran	neter 'SRB de	lay' from the ASN1	
		(ii)	To change the 'handoverGrou	labelling of up' to 'individ	the 'UL O luallySign	L PC info' cho alled' in order	for release 4 and 5 pice in the ASN1 fro to make it consiste at IE (10.3.6.91).	m
			ct analysis. proposed changes	s to the ASN	1 descrip	tion in 11.3 ha	ve isolated impact.	
Summary of chang	ø: ¥	(i) (ii)	11.3. Change of the la	fo-r4 and IE abel 'handov erControlInfo	UL-DPČł verGroup' o-r4, UL-D	to 'individuall	OPCH- ollnfo-r5 in section ySignalled' in the IE controllnfo-r5 and U	
Consequences if not approved:	*	The Ferror.	•	ion of the IE	'Uplink D	PCH power c	ontrol info' will be in)
Clauses affected:	Ж	11.3						
Other specs affected:	Ж		Other core speci Test specification O&M Specification	าร	¥			
Other comments:	\mathfrak{R}							

How to create CRs using this form:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

11.3 Information element definitions

```
[...]
  UL-DPCH-InfoPredef ::=
                                       SEQUENCE {
      ul-DPCH-PowerControlInfo
                                           UL-DPCH-PowerControlInfoPredef,
      modeSpecificInfo
                                           CHOICE {
          fdd
                                               SEQUENCE {
              tfci-Existence
                                                   BOOLEAN,
              puncturingLimit
                                                   PuncturingLimit
          },
          tdd
                                               SEQUENCE {
              commonTimeslotInfo
                                                   CommonTimeslotInfo
      }
  }
  UL-DPCH-PowerControlInfo ::=
                                       CHOICE {
                                           SEQUENCE {
          dpcch-PowerOffset
                                               DPCCH-PowerOffset,
          pc-Preamble
                                               PC-Preamble,
          sRB-delay
                                               SRB-delay,
          -- TABULAR: TPC step size nested inside PowerControlAlgorithm
          powerControlAlgorithm
                                               PowerControlAlgorithm
      tdd
                                           SEQUENCE {
          ul-TargetSIR
                                               UL-TargetSIR
                                                                            OPTIONAL,
          ul-OL-PC-Signalling
                                               CHOICE {
              broadcast-UL-OL-PC-info
                                                  NULL,
I
              individually Signalled \\ \frac{handover Group}{}
                                                                       SEQUENCE {
                  individualTS-InterferenceList
                                                      IndividualTS-InterferenceList,
                                                       ConstantValueTdd,
                  dpch-ConstantValue
                  primaryCCPCH-TX-Power
                                                       PrimaryCCPCH-TX-Power
          }
                                                                            OPTIONAL
      }
  }
  UL-DPCH-PowerControlInfo-r4 ::=
                                      CHOICE {
      fdd
                                           SEQUENCE {
          dpcch-PowerOffset
                                              DPCCH-PowerOffset,
          pc-Preamble
                                               PC-Preamble,
          sRB-delay
                                               SRB-delay,
          -- TABULAR: TPC step size nested inside PowerControlAlgorithm
          powerControlAlgorithm
                                              PowerControlAlgorithm
      },
                                           SEQUENCE {
          -- The IE ul-TargetSIR corresponds to PRX-PDPCHdes for 1.28Mcps TDD
          -- Actual value PRX-PDPCHdes = (value of IE "ul-TargetSIR" - 120)
                                                                            OPTIONAL,
          ul-TargetSIR
                                               UL-TargetSIR
          ul-OL-PC-Signalling
                                               CHOICE {
              broadcast-UL-OL-PC-info
1
              individuallySignalledhandoverGroup
                                                                        SEQUENCE {
                  tddOption
                                                       CHOICE {
                                                           SEQUENCE {
                      tdd384
                          individualTS-InterferenceList
                                                               IndividualTS-
  InterferenceList,
                          dpch-ConstantValue
                                                               Constant Value
                      tdd128
                                                           SEQUENCE {
                          tpc-StepSize
                                                               TPC-StepSizeTDD
                  },
                  primaryCCPCH-TX-Power
                                                       PrimaryCCPCH-TX-Power
          }
```

```
}
  UL-DPCH-PowerControlInfo-r5 ::=
                                          CHOICE {
                                              SEQUENCE {
      fdd
           dpcch-PowerOffset
                                                   DPCCH-PowerOffset,
           pc-Preamble
                                                   PC-Preamble,
           sRB-delay
                                                   SRB-delay,
           -- TABULAR: TPC step size nested inside PowerControlAlgorithm
           powerControlAlgorithm
                                                  PowerControlAlgorithm,
           dpcch-2-offset
                                                   INTEGER (-164 ..-6)
      },
      tdd
                                              SEQUENCE {
           -- The IE ul-TargetSIR corresponds to PRX-PDPCHdes for 1.28Mcps TDD -- Actual value PRX-PDPCHdes = (value of IE "ul-TargetSIR" - 120)
           ul-TargetSIR
                                                  UL-TargetSIR
                                                                                  OPTIONAL,
                                                   CHOICE {
           ul-OL-PC-Signalling
               broadcast-UL-OL-PC-info
                                                       NULL,
I
               \underline{individually Signalled} \underline{handover Group}
                                                                              SEQUENCE {
                                                            CHOICE {
                    tddOption
                        tdd384
                                                                SEQUENCE {
                            individualTS-InterferenceList
                                                                    IndividualTS-
  InterferenceList,
                            dpch-ConstantValue
                                                                    ConstantValue
                        },
tdd128
                                                                SEQUENCE {
                             tpc-StepSize
                                                                     TPC-StepSizeTDD
                   primaryCCPCH-TX-Power
                                                            PrimaryCCPCH-TX-Power
          }
      }
  UL-DPCH-PowerControlInfoPostFDD ::= SEQUENCE {
      -- DPCCH-PowerOffset2 has a smaller range to save bits
      dpcch-PowerOffset
                                              DPCCH-PowerOffset2,
      pc-Preamble
                                              PC-Preamble,
                                              SRB-delay
      sRB-delay
  }
[...]
```

3GPP TSG-RAN WG2 Meeting #31 Stockholm, Sweden, 19 – 23 August 2002

		C	HANG	E REQ	UEST			CR-Form-v7
*	25.33	CR CR	1664	≋rev	- #	Current vers	ion: 4.5.0	æ
For <u>HELP</u> on u	sing this	form, see	bottom of th	nis page or	look at the	e pop-up text	over the 策 sy	mbols.
Proposed change a	affects:	UICC ap	pps#	ME	Radio A	ccess Networ	rk X Core No	etwork
Title: Ж	Correct	ons to AS	N.1 for SRN	IC relocation	n containe	er		
Source: #	TSG-F	RAN WG2						
Work item code: ₩	LCRTI	DD-L23				Date: ♯	13/08/2002	
Category: ₩	Use one F (A (B (C (D (Detailed	correction) correspond addition of i functional n editorial mo	nodification of dification) as of the abov	ion in an ear f feature)		2 R96 R97 R98 R99 Rel-4	Rel-4 the following rel (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6)	
Reason for change	: ж <mark>Т</mark>	he SRNS r	elocation co	ontainer do	es not incl	lude the R4 v	ersion of the S	RNC-
Summary of chang	R re: % S		ofo. This is o		een includ	ded with help	of critical exter	nsion in
Consequences if not approved:		ritical R4 II DD.	Es that are r	needed for	relocation	are missing.	This affects 1	.28 Mcps
Clauses affected:	光 1	1.5						
Other specs affected:	¥ Y	X Test s	core specifi pecifications Specification	S	*			
Other comments:	ж							

How to create CRs using this form:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3)	With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

11.5 RRC information between network nodes

```
SRNC-RelocationInfo-r3 ::= CHOICE {
                                     SEOUENCE {
    r3
        sRNC-RelocationInfo-r3
                                         SRNC-RelocationInfo-r3-IEs,
            v380NonCriticalExtensions
                                                 SEQUENCE {
                sRNC-RelocationInfo-v380ext SRNC-RelocationInfo-v380ext-IEs,
                 - Reserved for future non critical extension
                v390NonCriticalExtensions
                                                     SEOUENCE {
                    sRNC-RelocationInfo-v390ext
                                                         SRNC-RelocationInfo-v390ext-IEs,
                    v3a0NonCriticalExtensions
                                                         SEQUENCE {
                        sRNC-RelocationInfo-v3a0ext
                                                             SRNC-RelocationInfo-v3a0ext-IEs,
                                                             SEQUENCE {
                        v3b0NonCriticalExtensions
                            sRNC-RelocationInfo-v3b0ext
                                                                 SRNC-RelocationInfo-v3b0ext-IEs,
                            v4xyNonCriticalExtensions
                                                                 SEQUENCE {
                                 sRNC-RelocationInfo-v4xyext
                                                                      SRNC-RelocationInfo-v4xyext-IEs,
                                 -- Reserved for future non critical extension
                                 nonCriticalExtensions
                                                                 SEQUENCE {} OPTIONAL
                                     OPTIONAL
                                 OPTIONAL
                            OPTIONAL
                        OPTIONAL
            }
                    OPTIONAL
    },
    criticalExtensions
                                     SEQUENCE {}
    later-than-r3
                                     CHOICE {
                                         SEQUENCE
            sRNC-RelocationInfo-r4
                                             SRNC-RelocationInfo-r4-IEs,
            nonCriticalExtensions
                                             SEQUENCE {} OPTIONAL
        criticalExtensions
                                             SEQUENCE {}
SRNC-RelocationInfo-r3-IEs ::=
                                    SEQUENCE {
    -- Non-RRC IEs
        stateOfRRC
                                         StateOfRRC
        stateOfRRC-Procedure
                                         StateOfRRC-Procedure.
    -- Ciphering related information IEs
    -- If the extension v380 is included use the extension for the ciphering status per CN domain
        cipheringStatus
                                         CipheringStatus,
        calculationTimeForCiphering
                                         CalculationTimeForCiphering
                                                                              OPTIONAL.
        cipheringInfoPerRB-List
                                         CipheringInfoPerRB-List
                                                                              OPTIONAL.
        count-C-List
                                         COUNT-C-List
                                                                              OPTIONAL.
        integrityProtectionStatus
                                         IntegrityProtectionStatus,
        srb-SpecificIntegrityProtInfo
                                         SRB-SpecificIntegrityProtInfoList,
        implementationSpecificParams
                                         ImplementationSpecificParams
                                                                              OPTIONAL,
    -- User equipment IEs
        u-RNTI
                                         U-RNTI,
        C-RNTI
                                         C-RNTI
                                                                              OPTIONAL.
                                         UE-RadioAccessCapability,
        ue-RadioAccessCapability
                                                                              OPTIONAL.
        ue-Positioning-LastKnownPos
                                         UE-Positioning-LastKnownPos
    -- Other IEs
        ue-RATSpecificCapability
                                         InterRAT-UE-RadioAccessCapabilityList
                                                                                  OPTIONAL,
     - UTRAN mobility IEs
       ura-Identity
                                        URA-Identity
                                                                              OPTIONAL.
    -- Core network IEs
        cn-CommonGSM-MAP-NAS-SysInfo
                                         NAS-SystemInformationGSM-MAP,
        cn-DomainInformationList
                                         CN-DomainInformationList
                                                                              OPTIONAL,
    -- Measurement IEs
        ongoingMeasRepList
                                         OngoingMeasRepList
                                                                              OPTIONAL.
    -- Radio bearer IEs
        {\tt predefinedConfigStatusList}
                                         PredefinedConfigStatusList,
                                         SRB-InformationSetupList,
        srb-InformationList
        rab-InformationList
                                         RAB-InformationSetupList
                                                                              OPTIONAL.
    -- Transport channel IEs
        ul-CommonTransChInfo
                                         UL-CommonTransChInfo
                                                                              OPTIONAL,
        ul-TransChInfoList
                                         UL-AddReconfTransChInfoList
                                                                              OPTIONAL,
        modeSpecificInfo
                                         CHOICE {
            fdd
                                             SEQUENCE {
                cpch-SetID
                                                 CPCH-SetID
                                                                              OPTIONAL,
                transChDRAC-Info
                                                 DRAC-StaticInformationList OPTIONAL
            },
            tdd
                                             NULL
```

```
dl-CommonTransChInfo
                                          DL-CommonTransChInfo
                                                                               OPTIONAL,
          dl-TransChInfoList
                                          DL-AddReconfTransChInfoList
                                                                               OPTIONAL,
      -- Measurement report
          measurementReport
                                          MeasurementReport
                                                                               OPTIONAL
          nonCriticalExtensions
                                          SEQUENCE {
              -- In case of TDD only up-Ipdl-Parameters-TDD is present, otherwise
              -- this IE is absent
              up-Ipdl-Parameters-TDD
                                              UE-Positioning-IPDL-Parameters-TDD-r4-ext
                                                                                           OPTIONAL,
          -- Extension mechanism for non- release4 information
             nonCriticalExtensions
                                              SEQUENCE {}
                                                                                           OPTIONAL
                                                                               OPTIONAL
  }
SRNC-RelocationInfo-r4-IEs ::=
                                         -SEOUENCE {
      -- Non-RRC IEs
          stateOfRRC
                                          StateOfRRC,
          stateOfRRC-Procedure
                                          StateOfRRC-Procedure,
         Ciphering related information IEs
          cipheringStatus
                                          CipheringStatus,
          cipheringStatusList
                                          CipheringStatusList-r4,
          latestConfiguredCN-Domain
                                          CN-DomainIdentity,
                                          CalculationTimeForCiphering
          calculationTimeForCiphering
                                                                               OPTIONAL.
          count-C-List
                                          COUNT-C-List
                                                                               OPTIONAL.
                                          CipheringInfoPerRB-List-r4 -
          cipheringInfoPerRB-List
                                                                                   OPTIONAL,
         Integrity protection related information IEs
          integrityProtectionStatus
                                          IntegrityProtectionStatus,
          srb-SpecificIntegrityProtInfo
                                          SRB-SpecificIntegrityProtInfoList,
          implementationSpecificParams
                                          ImplementationSpecificParams
                                                                               OPTIONAL.
      -- User equipment IEs
          u-RNTI
                                          U-RNTI,
          c-RNTI
                                          C-RNTI
                                                                               OPTIONAL,
          ue-RadioAccessCapability
                                          UE-RadioAccessCapability-r4,
                                                                               OPTIONAL,
          ue-RadioAccessCapability-ext
                                          UE-RadioAccessCapabBandFDDList
          ue-Positioning-LastKnownPos
                                          UE-Positioning-LastKnownPos
                                                                               OPTIONAL,
      -- Other IEs
         ue-RATSpecificCapability
                                          InterRAT-UE-RadioAccessCapabilityList
                                                                                  OPTIONAL,
      -- UTRAN mobility IEs
          ura-Identity
                                          URA-Identity
                                                                               OPTIONAL,
       - Core network IEs
         cn-CommonGSM-MAP-NAS-SysInfo
                                          NAS-SystemInformationGSM-MAP,
         cn-DomainInformationList
                                          CN-DomainInformationListFull
                                                                                   OPTIONAL,
      -- Measurement IEs
         ongoingMeasRepList
                                          OngoingMeasRepList-r4
                                                                               OPTIONAL,
      -- Radio bearer IEs
         predefinedConfigStatusList
                                          PredefinedConfigStatusList.
          srb-InformationList
                                          SRB-InformationSetupList,
          rab-InformationList
                                          RAB-InformationSetupList-r4
                                                                               OPTIONAL,
      -- Transport channel IEs
          ul-CommonTransChInfo
                                          UL-CommonTransChInfo-4
                                                                               OPTIONAL,
          ul-TransChInfoList
                                          UL-AddReconfTransChInfoList-
                                                                               OPTIONAL,
          modeSpecificInfo
                                          CHOICE {
                                              SEQUENCE {
              fdd
                  cpch-SetID
                                                  CPCH-SetID
                                                                               OPTIONAL,
                  transChDRAC-Info
                                                  DRAC-StaticInformationList OPTIONAL
              },
              tdd
                                              NULL
                                                                               OPTIONAL,
          dl-CommonTransChInfo
                                          DL-CommonTransChInfo-r4
                                                                               OPTIONAL.
          dl-TransChInfoList
                                          DL-AddReconfTransChInfoList-r4-
                                                                                   OPTIONAL,
         Measurement report
          measurementReport
                                                                               OPTIONAL,
                                          MeasurementReport-
          failureCause
                                          FailureCauseWithProtErr
                                                                               OPTIONAL
          nonCriticalExtensions
                                         SEQUENCE {
                 In case of TDD only up Ipdl Parameters TDD is present, otherwise
                 this IE is absent
              up-Ipdl-Parameters-TDD
                                              UE-Positioning-IPDL-Parameters-TDD-r4-ext OPTIONAL,
             Extension mechanism for non- release4 information
              nonCriticalExtensions
                                              SEQUENCE {}
                                                                                           OPTIONAL
                                                                              OPTIONAL.
  CipheringStatusList-r4 ::=
                                      SEQUENCE (SIZE (1..maxCNdomains)) OF
                                          CipheringStatusCNdomain-r4
  CipheringStatusCNdomain-r4 ::=
                                      SEQUENCE {
                                          CN-DomainIdentity,
          cn-DomainIdentity
```

```
CipheringStatus,
        cipheringStatus
        start-Value
                                         Start-Value
CipheringInfoPerRB-List-r4 ::=
                                     SEQUENCE (SIZE (1..maxRB)) OF
                                         CipheringInfoPerRB-r4
CipheringInfoPerRB-r4 ::=
                                     SEQUENCE {
                                         RB-Identity,
    rb-Identity
    dl-HFN
                                         BIT STRING (SIZE (20..25)),
                                         BIT STRING (SIZE (7))
    dl-UM-SN
                                                                              OPTIONAL,
    ul-HFN
                                         BIT STRING (SIZE (20..25))
}
UE-RadioAccessCapability-r4 ::=
                                     SEQUENCE {
                                         AccessStratumReleaseIndicator,
    {\tt accessStratumReleaseIndicator}
    pdcp-Capability
                                         PDCP-Capability-r4,
    rlc-Capability
                                         RLC-Capability,
    transportChannelCapability
                                         TransportChannelCapability,
    rf-Capability
                                         RF-Capability-r4,
    physicalChannelCapability
                                         PhysicalChannelCapability-4,
    ue-MultiModeRAT-Capability
                                         UE-MultiModeRAT-Capability,
    securityCapability
                                         SecurityCapability,
                                         UE-Positioning-Capability-r4,
    ue-positioning-Capability
    measurementCapability
                                         MeasurementCapability-r4
                                                                          OPTIONAL
}
PDCP-Capability-r4 ::=
                                     SEQUENCE {
    losslessSRNS-RelocationSupport
                                         BOOLEAN
                                         CHOICE {
    supportForRfc2507
        notSupported
                                             NULL.
                                             MaxHcContextSpace
        supported
    supportForRfc3095
                                         CHOICE {
        notSupported
                                             NULL,
                                             SEQUENCE {
        supported
                                                 MaxROHC-ContextSessions-r4 DEFAULT s16,
            maxROHC-ContextSessions
                                                                              DEFAULT 0
            reverseCompressionDepth
                                                 INTEGER (0..65535)
RF-Capability-r4 ::=
                                     SEOUENCE {
        fddRF-Capability
                                         SEQUENCE {
            ue-PowerClass
                                             UE-PowerClass-v370,
                                             TxRxFrequencySeparation
            txRxFrequencySeparation
                                                                          OPTIONAL,
                                         SEQUENCE {
        tdd384-RF-Capability
            ue-PowerClass
                                             UE-PowerClass-v370,
            radioFrequencyBandTDDList
                                             RadioFrequencyBandTDDList,
                                             ChipRateCapability
            chipRateCapability
                                                                          OPTIONAL
        tdd128-RF-Capability
                                         SEQUENCE {
                                             UE-PowerClass-v370,
            ue-PowerClass
            radioFrequencyBandTDDList
                                             RadioFrequencyBandTDDList,
            chipRateCapability
                                             ChipRateCapability
                                                                          OPTIONAL
PhysicalChannelCapability-r4 ::=
                                         SEQUENCE {
                                             SEQUENCE {
        fddPhysChCapability
            downlinkPhysChCapability
                                                 DL-PhysChCapabilityFDD-r4,
            uplinkPhysChCapability
                                                 UL-PhysChCapabilityFDD
                                                     OPTIONAL,
        tdd384-PhysChCapability
                                             SEQUENCE {
            downlinkPhysChCapability
                                                 DL-PhysChCapabilityTDD,
                                                 UL-PhysChCapabilityTDD
            uplinkPhysChCapability
                                                     OPTIONAL
                                             SEQUENCE {
        tdd128-PhysChCapability
                                                 DL-PhysChCapabilityTDD-LCR-r4,
            downlinkPhysChCapability
            uplinkPhysChCapability
                                                 UL-PhysChCapabilityTDD-LCR-r4
                                                     OPTIONAL
DL-PhysChCapabilityFDD-r4 ::=
                                     SEQUENCE {
    maxNoDPCH-PDSCH-Codes
                                         INTEGER (1..8),
    maxNoPhysChBitsReceived
                                         MaxNoPhysChBitsReceived,
    supportForSF-512
                                         BOOLEAN,
```

supportOfPDSCH	BOOLEAN,	
simultaneousSCCPCH-DPCH-Reception	SimultaneousSCCPCH-DPCH-Reception,	
supportOfDedicatedPilotsForChEstima	ation SupportOfDedicatedPilotsForChE	stimation OPTIONAL
}		
_		
UE-Positioning-Capability-r4 ::= SEG	QUENCE {	
standaloneLocMethodsSupported	BOOLEAN,	
ue-BasedOTDOA-Supported	BOOLEAN,	
networkAssistedGPS-Supported	NetworkAssistedGPS-Supported,	
supportForUE-GPS-TimingOfCellFrames	BOOLEAN,	
supportForIPDL	BOOLEAN,	
rx-tx-TimeDifferenceType2Capable	BOOLEAN,	
validity-CellPCH-UraPCH	ENUMERATED { true (0) } OPTION	AL
}		_
MeasurementCapability-r4 ::= SEG	QUENCE {	
downlinkCompressedMode	CompressedModeMeasCapability-r4,	
uplinkCompressedMode	CompressedModeMeasCapability-r4	
}		
CompressedModeMeasCapability-r4 ::= SEG	QUENCE {	
fdd-Measurements	BOOLEAN,	
TABULAR: The IEs tdd-Measurement	cs, gsm-Measurements and multiCarrierMea	surements
are made optional since they are	e conditional based on another informati	on element.
Their absence corresponds to the	e case where the condition is not true.	
tdd384-Measurements	BOOLEAN OP	TIONAL,
tdd128-Measurements	BOOLEAN OP	TIONAL,
gsm-Measurements	GSM-Measurements OP	TIONAL,
multiCarrierMeasurements	BOOLEAN OP	TIONAL
}		

END

3GPP TSG-RAN WG2 Meeting #31 Stockholm, Sweden, 19 – 23 August 2002

CHANGE REQUEST							
*	25.331	CR 1665	жrev	- **	Current vers	ion: 5.1.0	*
For <u>HELP</u> on us	sing this fo	rm, see bottom	of this page o	r look at the	pop-up text	over the % syr	nbols.
	Proposed change affects: UICC apps# ME Radio Access Network Core Network						
Title: #	Correction	s to ASN.1 for	SRNC relocat	on containe	er		
Source: #	TSG-RAI	N WG2					
Work item code: ₩	LCRTDD	-L23			Date: ♯	13/08/2002	
	F (con A (con B (ad C (fur D (ed Detailed ex	the following caterection) responds to a condition of feature), actional modification in the planations of the 3GPP TR 21.90	orrection in an e tion of feature) on) above categori	arlier release _,	2) R96 R97 R98 R99 Rel-4	Rel-5 the following rele (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6)	eases:
Reason for change.		SRNS relocation		oes not inclu	ude the R4 v	ersion of the S	RNC-
Summary of change	e: # SRN ASN	IC-RelocationIr I.1	nfo-r4-IEs has	been includ	ed with help	of critical exter	nsion in
Consequences if not approved:	₩ Criti TDD	cal R4 IEs that).	are needed fo	r relocation	are missing.	This affects 1.	28 Mcps
Clauses affected:	ж <mark>11.5</mark>						
Other specs affected:	果 X X X	Test specifica	ations	*			
Other comments:	ж						

How to create CRs using this form:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3)	With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

11.5 RRC information between network nodes

```
SRNC-RelocationInfo-r3 ::= CHOICE {
                                     SEOUENCE {
    r3
        sRNC-RelocationInfo-r3
                                         SRNC-RelocationInfo-r3-IEs,
            v380NonCriticalExtensions
                                                 SEQUENCE {
                sRNC-RelocationInfo-v380ext SRNC-RelocationInfo-v380ext-IEs,
                 - Reserved for future non critical extension
                v390NonCriticalExtensions
                                                     SEOUENCE {
                    sRNC-RelocationInfo-v390ext
                                                         SRNC-RelocationInfo-v390ext-IEs,
                    v3a0NonCriticalExtensions
                                                         SEQUENCE {
                        sRNC-RelocationInfo-v3a0ext
                                                             SRNC-RelocationInfo-v3a0ext-IEs,
                                                             SEQUENCE {
                        v3b0NonCriticalExtensions
                            sRNC-RelocationInfo-v3b0ext
                                                                 SRNC-RelocationInfo-v3b0ext-IEs,
                            v4xyNonCriticalExtensions
                                                                 SEQUENCE {
                                 sRNC-RelocationInfo-v4xyext
                                                                      SRNC-RelocationInfo-v4xyext-IEs,
                                 -- Reserved for future non critical extension
                                 nonCriticalExtensions
                                                                 SEQUENCE {} OPTIONAL
                                     OPTIONAL
                                 OPTIONAL
                            OPTIONAL
                        OPTIONAL
            }
                    OPTIONAL
    },
    criticalExtensions
                                     SEQUENCE {}
    later-than-r3
                                     CHOICE {
                                         SEQUENCE
            sRNC-RelocationInfo-r4
                                             SRNC-RelocationInfo-r4-IEs,
            nonCriticalExtensions
                                             SEQUENCE {} OPTIONAL
        criticalExtensions
                                             SEQUENCE {}
SRNC-RelocationInfo-r3-IEs ::=
                                    SEQUENCE {
    -- Non-RRC IEs
        stateOfRRC
                                         StateOfRRC
        stateOfRRC-Procedure
                                         StateOfRRC-Procedure.
    -- Ciphering related information IEs
    -- If the extension v380 is included use the extension for the ciphering status per CN domain
        cipheringStatus
                                         CipheringStatus,
        calculationTimeForCiphering
                                         CalculationTimeForCiphering
                                                                              OPTIONAL.
        cipheringInfoPerRB-List
                                         CipheringInfoPerRB-List
                                                                              OPTIONAL.
        count-C-List
                                         COUNT-C-List
                                                                              OPTIONAL.
        integrityProtectionStatus
                                         IntegrityProtectionStatus,
        srb-SpecificIntegrityProtInfo
                                         SRB-SpecificIntegrityProtInfoList,
        implementationSpecificParams
                                         ImplementationSpecificParams
                                                                              OPTIONAL,
    -- User equipment IEs
        u-RNTI
                                         U-RNTI,
        C-RNTI
                                         C-RNTI
                                                                              OPTIONAL.
                                         UE-RadioAccessCapability,
        ue-RadioAccessCapability
                                                                              OPTIONAL.
        ue-Positioning-LastKnownPos
                                         UE-Positioning-LastKnownPos
    -- Other IEs
        ue-RATSpecificCapability
                                         InterRAT-UE-RadioAccessCapabilityList
                                                                                  OPTIONAL,
     - UTRAN mobility IEs
       ura-Identity
                                        URA-Identity
                                                                              OPTIONAL.
    -- Core network IEs
        cn-CommonGSM-MAP-NAS-SysInfo
                                         NAS-SystemInformationGSM-MAP,
        cn-DomainInformationList
                                         CN-DomainInformationList
                                                                              OPTIONAL,
    -- Measurement IEs
        ongoingMeasRepList
                                         OngoingMeasRepList
                                                                              OPTIONAL.
    -- Radio bearer IEs
        {\tt predefinedConfigStatusList}
                                         PredefinedConfigStatusList,
                                         SRB-InformationSetupList,
        srb-InformationList
        rab-InformationList
                                         RAB-InformationSetupList
                                                                              OPTIONAL.
    -- Transport channel IEs
        ul-CommonTransChInfo
                                         UL-CommonTransChInfo
                                                                              OPTIONAL,
        ul-TransChInfoList
                                         UL-AddReconfTransChInfoList
                                                                              OPTIONAL,
        modeSpecificInfo
                                         CHOICE {
            fdd
                                             SEQUENCE {
                cpch-SetID
                                                 CPCH-SetID
                                                                              OPTIONAL,
                transChDRAC-Info
                                                 DRAC-StaticInformationList OPTIONAL
            },
            tdd
                                             NULL
```

```
dl-CommonTransChInfo
                                          DL-CommonTransChInfo
                                                                               OPTIONAL,
          dl-TransChInfoList
                                          DL-AddReconfTransChInfoList
                                                                               OPTIONAL,
      -- Measurement report
          measurementReport
                                          MeasurementReport
                                                                               OPTIONAL
          nonCriticalExtensions
                                          SEQUENCE {
              -- In case of TDD only up-Ipdl-Parameters-TDD is present, otherwise
              -- this IE is absent
              up-Ipdl-Parameters-TDD
                                              UE-Positioning-IPDL-Parameters-TDD-r4-ext
                                                                                           OPTIONAL,
          -- Extension mechanism for non- release4 information
             nonCriticalExtensions
                                              SEQUENCE {}
                                                                                           OPTIONAL
                                                                               OPTIONAL
  }
SRNC-RelocationInfo-r4-IEs ::=
                                         -SEOUENCE {
      -- Non-RRC IEs
          stateOfRRC
                                          StateOfRRC,
          stateOfRRC-Procedure
                                          StateOfRRC-Procedure,
         Ciphering related information IEs
          cipheringStatus
                                          CipheringStatus,
          cipheringStatusList
                                          CipheringStatusList-r4,
          latestConfiguredCN-Domain
                                          CN-DomainIdentity,
                                          CalculationTimeForCiphering
          calculationTimeForCiphering
                                                                               OPTIONAL.
          count-C-List
                                          COUNT-C-List
                                                                               OPTIONAL.
                                          CipheringInfoPerRB-List-r4 -
          cipheringInfoPerRB-List
                                                                                   OPTIONAL,
         Integrity protection related information IEs
          integrityProtectionStatus
                                          IntegrityProtectionStatus,
          srb-SpecificIntegrityProtInfo
                                          SRB-SpecificIntegrityProtInfoList,
          implementationSpecificParams
                                          ImplementationSpecificParams
                                                                               OPTIONAL.
      -- User equipment IEs
          u-RNTI
                                          U-RNTI,
          c-RNTI
                                          C-RNTI
                                                                               OPTIONAL,
          ue-RadioAccessCapability
                                          UE-RadioAccessCapability-r4,
                                                                               OPTIONAL,
          ue-RadioAccessCapability-ext
                                          UE-RadioAccessCapabBandFDDList
          ue-Positioning-LastKnownPos
                                          UE-Positioning-LastKnownPos
                                                                               OPTIONAL,
      -- Other IEs
         ue-RATSpecificCapability
                                          InterRAT-UE-RadioAccessCapabilityList
                                                                                  OPTIONAL,
      -- UTRAN mobility IEs
          ura-Identity
                                          URA-Identity
                                                                               OPTIONAL,
       - Core network IEs
         cn-CommonGSM-MAP-NAS-SysInfo
                                          NAS-SystemInformationGSM-MAP,
         cn-DomainInformationList
                                          CN-DomainInformationListFull
                                                                                   OPTIONAL,
      -- Measurement IEs
         ongoingMeasRepList
                                          OngoingMeasRepList-r4
                                                                               OPTIONAL,
      -- Radio bearer IEs
         predefinedConfigStatusList
                                          PredefinedConfigStatusList.
          srb-InformationList
                                          SRB-InformationSetupList,
          rab-InformationList
                                          RAB-InformationSetupList-r4
                                                                               OPTIONAL,
      -- Transport channel IEs
          ul-CommonTransChInfo
                                          UL-CommonTransChInfo-4
                                                                               OPTIONAL,
          ul-TransChInfoList
                                          UL-AddReconfTransChInfoList-
                                                                               OPTIONAL,
          modeSpecificInfo
                                          CHOICE {
                                              SEQUENCE {
              fdd
                  cpch-SetID
                                                  CPCH-SetID
                                                                               OPTIONAL,
                  transChDRAC-Info
                                                  DRAC-StaticInformationList OPTIONAL
              },
              tdd
                                              NULL
                                                                               OPTIONAL,
          dl-CommonTransChInfo
                                          DL-CommonTransChInfo-r4
                                                                               OPTIONAL.
          dl-TransChInfoList
                                          DL-AddReconfTransChInfoList-r4-
                                                                                   OPTIONAL,
         Measurement report
          measurementReport
                                                                               OPTIONAL,
                                          MeasurementReport-
          failureCause
                                          FailureCauseWithProtErr
                                                                               OPTIONAL
          nonCriticalExtensions
                                         SEQUENCE {
                 In case of TDD only up Ipdl Parameters TDD is present, otherwise
                 this IE is absent
              up-Ipdl-Parameters-TDD
                                              UE-Positioning-IPDL-Parameters-TDD-r4-ext OPTIONAL,
             Extension mechanism for non- release4 information
              nonCriticalExtensions
                                              SEQUENCE {}
                                                                                           OPTIONAL
                                                                              OPTIONAL.
  CipheringStatusList-r4 ::=
                                      SEQUENCE (SIZE (1..maxCNdomains)) OF
                                          CipheringStatusCNdomain-r4
  CipheringStatusCNdomain-r4 ::=
                                      SEQUENCE {
                                          CN-DomainIdentity,
          cn-DomainIdentity
```

```
CipheringStatus,
        cipheringStatus
        start-Value
                                         Start-Value
CipheringInfoPerRB-List-r4 ::=
                                     SEQUENCE (SIZE (1..maxRB)) OF
                                         CipheringInfoPerRB-r4
CipheringInfoPerRB-r4 ::=
                                     SEQUENCE {
                                         RB-Identity,
    rb-Identity
    dl-HFN
                                         BIT STRING (SIZE (20..25)),
                                         BIT STRING (SIZE (7))
    dl-UM-SN
                                                                              OPTIONAL,
    ul-HFN
                                         BIT STRING (SIZE (20..25))
}
UE-RadioAccessCapability-r4 ::=
                                     SEQUENCE {
                                         AccessStratumReleaseIndicator,
    {\tt accessStratumReleaseIndicator}
    pdcp-Capability
                                         PDCP-Capability-r4,
    rlc-Capability
                                         RLC-Capability,
    transportChannelCapability
                                         TransportChannelCapability,
    rf-Capability
                                         RF-Capability-r4,
    physicalChannelCapability
                                         PhysicalChannelCapability-4,
    ue-MultiModeRAT-Capability
                                         UE-MultiModeRAT-Capability,
    securityCapability
                                         SecurityCapability,
                                         UE-Positioning-Capability-r4,
    ue-positioning-Capability
    measurementCapability
                                         MeasurementCapability-r4
                                                                          OPTIONAL
}
PDCP-Capability-r4 ::=
                                     SEQUENCE {
    losslessSRNS-RelocationSupport
                                         BOOLEAN
                                         CHOICE {
    supportForRfc2507
        notSupported
                                             NULL.
                                             MaxHcContextSpace
        supported
    supportForRfc3095
                                         CHOICE {
        notSupported
                                             NULL,
                                             SEQUENCE {
        supported
                                                 MaxROHC-ContextSessions-r4 DEFAULT s16,
            maxROHC-ContextSessions
                                                                              DEFAULT 0
            reverseCompressionDepth
                                                 INTEGER (0..65535)
RF-Capability-r4 ::=
                                     SEOUENCE {
        fddRF-Capability
                                         SEQUENCE {
            ue-PowerClass
                                             UE-PowerClass-v370,
                                             TxRxFrequencySeparation
            txRxFrequencySeparation
                                                                          OPTIONAL,
                                         SEQUENCE {
        tdd384-RF-Capability
            ue-PowerClass
                                             UE-PowerClass-v370,
            radioFrequencyBandTDDList
                                             RadioFrequencyBandTDDList,
                                             ChipRateCapability
            chipRateCapability
                                                                          OPTIONAL
        tdd128-RF-Capability
                                         SEQUENCE {
                                             UE-PowerClass-v370,
            ue-PowerClass
            radioFrequencyBandTDDList
                                             RadioFrequencyBandTDDList,
            chipRateCapability
                                             ChipRateCapability
                                                                          OPTIONAL
PhysicalChannelCapability-r4 ::=
                                         SEQUENCE {
                                             SEQUENCE {
        fddPhysChCapability
            downlinkPhysChCapability
                                                 DL-PhysChCapabilityFDD-r4,
            uplinkPhysChCapability
                                                 UL-PhysChCapabilityFDD
                                                     OPTIONAL,
        tdd384-PhysChCapability
                                             SEQUENCE {
            downlinkPhysChCapability
                                                 DL-PhysChCapabilityTDD,
                                                 UL-PhysChCapabilityTDD
            uplinkPhysChCapability
                                                     OPTIONAL
                                             SEQUENCE {
        tdd128-PhysChCapability
                                                 DL-PhysChCapabilityTDD-LCR-r4,
            downlinkPhysChCapability
            uplinkPhysChCapability
                                                 UL-PhysChCapabilityTDD-LCR-r4
                                                     OPTIONAL
DL-PhysChCapabilityFDD-r4 ::=
                                     SEQUENCE {
    maxNoDPCH-PDSCH-Codes
                                         INTEGER (1..8),
    maxNoPhysChBitsReceived
                                         MaxNoPhysChBitsReceived,
    supportForSF-512
                                         BOOLEAN,
```

supportOfPDSCH	BOOLEAN,	
simultaneousSCCPCH-DPCH-Reception	SimultaneousSCCPCH-DPCH-Reception,	
supportOfDedicatedPilotsForChEstima	ation SupportOfDedicatedPilotsForChE	stimation OPTIONAL
}		
_		
UE-Positioning-Capability-r4 ::= SEG	QUENCE {	
standaloneLocMethodsSupported	BOOLEAN,	
ue-BasedOTDOA-Supported	BOOLEAN,	
networkAssistedGPS-Supported	NetworkAssistedGPS-Supported,	
supportForUE-GPS-TimingOfCellFrames	BOOLEAN,	
supportForIPDL	BOOLEAN,	
rx-tx-TimeDifferenceType2Capable	BOOLEAN,	
validity-CellPCH-UraPCH	ENUMERATED { true (0) } OPTION	AL
}		_
MeasurementCapability-r4 ::= SEG	QUENCE {	
downlinkCompressedMode	CompressedModeMeasCapability-r4,	
uplinkCompressedMode	CompressedModeMeasCapability-r4	
}		
CompressedModeMeasCapability-r4 ::= SEG	QUENCE {	
fdd-Measurements	BOOLEAN,	
TABULAR: The IEs tdd-Measurement	cs, gsm-Measurements and multiCarrierMea	surements
are made optional since they are	e conditional based on another informati	on element.
Their absence corresponds to the	e case where the condition is not true.	
tdd384-Measurements	BOOLEAN OP	TIONAL,
tdd128-Measurements	BOOLEAN OP	TIONAL,
gsm-Measurements	GSM-Measurements OP	TIONAL,
multiCarrierMeasurements	BOOLEAN OP	TIONAL
}		

END

3GPP TSG-RAN2 Meeting #31 Stockholm, Sweden, 19 – 24 August 2002

CHANGE REQUEST													
*	25.	.331	CR	1666		⊭ rev	-	ж	Current	t vers	ion:	4.5.0	×
For <u>HELP</u> on u	ısing t	his for	m, see	bottom	of this	page o	look	at the	e pop-up	o text	over	the # sy	mbols.
Proposed change affects: UICC apps% ME X Radio Access Network Core Network													
Title:	Uni	used e	lement	s in ASN	l.1								
Source: #	TS	G-RAN	WG2										
Work item code: ₩	TEI	4							Da	te: ೫	08/	08/2002	
Category: ₩	Deta	F (corr A (corr B (add C (fund D (edit iled exp	rection) respond lition of ctional r forial mo	wing cate Is to a cor feature), modification as of the a	rrectior on of fe above	n in an ea eature)		elease	2 R9 R9 R9 R9	one of 06 07 08 09 el-4 el-5	the for (GSN (Relea (Relea (Relea (Relea (Relea (Relea	L-4 M Phase 2 pase 1996 pase 1997 pase 1998 pase 4) pase 5) pase 6))))
Reason for change	e: #			ents in A				nded	but also	o cou	ld inc	licate an	error in
Summary of chang	ge: #	Thus a if it is print is print is print is print 1) Nev	after ea really in oposed	ach revis ntended d to remo	ion of or an o	specific error. To used el	ation avoi ement	d this	possibles possibles possibles possible	e sou SN.1	irce c code	of erroned	checked ous code,
				sis: No ii	mpact								
Consequences if not approved:	ж	Unuse	ed elem	ents in A	ASN.1	code a	s a po	ssibl	e source	e of e	rrors.		
Clauses affected:	ж	11											
Other specs affected:	*	Y N X X	Test s	core spe specificat Specificat	tions	tions	¥						
Other comments:	Ж												

How to create CRs using this form: Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

11.3 Information element definitions

```
[...]
NewInterRATCell ::=
                              SEQUENCE {
                            InterRATCellID
                                                      OPTIONAL,
   interRATCellID
                                     CHOICE {
   technologySpecificInfo
                                         SEOUENCE {
                                             CellSelectReselectInfoSIB-11-12
          cellSelectionReselectionInfo
   OPTIONAL,
          interRATCellIndividualOffset
                                             InterRATCellIndividualOffset,
           bsic
                                             BSIC,
           frequency-band
                                             Frequency-Band,
           bcch-ARFCN
                                             BCCH-ARFCN,
           -- dummy is not used in this version of the specification, it should
           -- not be sent and if received it should be ignored.
           dummy
                                             NULL
                                                                OPTIONAL
       is-2000
                                         SEQUENCE {
           is-2000SpecificMeasInfo
                                             IS-2000SpecificMeasInfo
       -- ASN.1 inconsistency: NewInterRATCellList should be optional within
       -- InterRATCellInfoList. The UE shall consider IE NewInterRATCell with
       -- technologySpecificInfo set to "absent" as valid and handle the
       -- message as if the IE NewInterRATCell was absent
                                         NULL,
       absent
       spare1
                                         NIII.I.
   }
}
                                 SEQUENCE {
NewInterRATCell-r4 ::=
   interRATCellID
                                  -CHOICE {
   technologySpecificInfo
     asm
                                    SEQUENCE {
         <u>cellSelectionReselectionInfo</u>
                                            CellSelectReselectInfoSIR-11-12
   OPTIONAL,
           interRATCellIndividualOffset
                                            -InterRATCellIndividualOffset,
        frequency band
                                           Frequency Band.
         bech ARFCN
                                            BCCH ARFCN
                                         SEOUENCE {
          is-2000SpecificMeasInfo
                                         IS-2000SpecificMeasInfo
NewInterRATCell-B ::=
                                  SEQUENCE {
   interRATCellID
                                    InterRATCellID
                                                              OPTIONAL,
   technologySpecificInfo
                                     CHOICE {
                                        SEQUENCE {
       qsm
           cellSelectionReselectionInfo
                                             CellSelectReselectInfoSIB-11-12
   OPTIONAL,
           interRATCellIndividualOffset
                                             InterRATCellIndividualOffset,
                                             BSIC,
           bsic
           frequency-band
                                             Frequency-Band,
           bcch-ARFCN
                                             BCCH-ARFCN,
           -- dummy is not used in this version of the specification, it should
           -- not be sent and if received it should be ignored.
           dummy
                                             NULL
                                                                OPTIONAL
       is-2000
                                         SEQUENCE {
           is-2000SpecificMeasInfo
                                             IS-2000SpecificMeasInfo
        -- ASN.1 inconsistency: NewInterRATCellList-B should be optional within
       -- InterRATCellInfoList-B. The UE shall consider IE NewInterRATCell-B with
       -- technologySpecificInfo set to "absent" as valid and handle the
       -- message as if the IE NewInterRATCell-B was absent
```

```
absent NULL,
spare1 NULL
}

NewInterRATCellList ::= SEQUENCE (SIZE (1..maxCellMeas)) OF
NewInterRATCell

NewInterRATCellList-r4 ::= SEQUENCE (SIZE (1..maxCellMeas)) OF
NewInterRATCell-r4

NewInterRATCellList-B ::= SEQUENCE (SIZE (1..maxCellMeas)) OF
NewInterRATCell-r4
```

3GPP TSG-RAN2 Meeting #31 Stockholm, Sweden, 19 – 24 August 2002

CHANGE REQUEST							
*	25.331 CR 1667 # rev - # Current version: 5.1	.0 *					
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the % symbols.							
Proposed change	fects: UICC apps₩ ME X Radio Access Network X Core	e Network					
Title:	Unused elements in ASN.1						
Source:	TSG-RAN WG2						
Work item code: ३	TEI4 Date: 第 08/08/200	02					
Reason for chang	specification or implementation of a CR. Thus after each revision of specification each unused element has to life it is really intended or an error. To avoid this possible source of error	e 2) 196) 197) 198) 199) an error in					
	it is proposed to remove unused elements from the ASN.1 code. ** 1) NewInterRATCellList-r4 and NewInterRATCell-r4 removed, becaus needed and used	e not					
Consequences if not approved:	# Unused elements in ASN.1 code as a possible source of errors.						
Clauses affected:	第 11						
Other specs affected:	Y N X Other core specifications Test specifications O&M Specifications						
Other comments:	x						

How to create CRs using this form:

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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

11.3 Information element definitions

```
[...]
NewInterRATCell ::=
                              SEQUENCE {
                            InterRATCellID
                                                      OPTIONAL,
   interRATCellID
                                     CHOICE {
   technologySpecificInfo
                                         SEOUENCE {
                                             CellSelectReselectInfoSIB-11-12
          cellSelectionReselectionInfo
   OPTIONAL,
          interRATCellIndividualOffset
                                             InterRATCellIndividualOffset,
           bsic
                                             BSIC,
           frequency-band
                                             Frequency-Band,
           bcch-ARFCN
                                             BCCH-ARFCN,
           -- dummy is not used in this version of the specification, it should
           -- not be sent and if received it should be ignored.
           dummy
                                             NULL
                                                                OPTIONAL
       is-2000
                                         SEQUENCE {
           is-2000SpecificMeasInfo
                                             IS-2000SpecificMeasInfo
       -- ASN.1 inconsistency: NewInterRATCellList should be optional within
       -- InterRATCellInfoList. The UE shall consider IE NewInterRATCell with
       -- technologySpecificInfo set to "absent" as valid and handle the
       -- message as if the IE NewInterRATCell was absent
                                         NULL,
       absent
       spare1
                                         NIII.I.
   }
}
                                 SEQUENCE {
NewInterRATCell-r4 ::=
   interRATCellID
                                  -CHOICE {
   technologySpecificInfo
     asm
                                    SEQUENCE {
         <u>cellSelectionReselectionInfo</u>
                                            CellSelectReselectInfoSIR-11-12
   OPTIONAL,
           interRATCellIndividualOffset
                                            -InterRATCellIndividualOffset,
        frequency band
                                           Frequency Band.
         bech ARFCN
                                            BCCH ARFCN
                                         SEOUENCE {
          is-2000SpecificMeasInfo
                                         IS-2000SpecificMeasInfo
NewInterRATCell-B ::=
                                  SEQUENCE {
   interRATCellID
                                    InterRATCellID
                                                              OPTIONAL,
   technologySpecificInfo
                                     CHOICE {
                                        SEQUENCE {
       qsm
           cellSelectionReselectionInfo
                                             CellSelectReselectInfoSIB-11-12
   OPTIONAL,
           interRATCellIndividualOffset
                                             InterRATCellIndividualOffset,
                                             BSIC,
           bsic
           frequency-band
                                             Frequency-Band,
           bcch-ARFCN
                                             BCCH-ARFCN,
           -- dummy is not used in this version of the specification, it should
           -- not be sent and if received it should be ignored.
           dummy
                                             NULL
                                                                OPTIONAL
       is-2000
                                         SEQUENCE {
           is-2000SpecificMeasInfo
                                             IS-2000SpecificMeasInfo
        -- ASN.1 inconsistency: NewInterRATCellList-B should be optional within
       -- InterRATCellInfoList-B. The UE shall consider IE NewInterRATCell-B with
       -- technologySpecificInfo set to "absent" as valid and handle the
       -- message as if the IE NewInterRATCell-B was absent
```

```
absent NULL,
spare1 NULL
}

NewInterRATCellList ::= SEQUENCE (SIZE (1..maxCellMeas)) OF
NewInterRATCell

NewInterRATCellList-r4 ::= SEQUENCE (SIZE (1..maxCellMeas)) OF
NewInterRATCell-r4

NewInterRATCellList-B ::= SEQUENCE (SIZE (1..maxCellMeas)) OF
NewInterRATCell-r4
```