# 3GPP TSG-CN Plenary Meeting #11 Palm Springs, USA, 14<sup>th</sup> –16<sup>th</sup> March 2001

												CR-Form-v3
CHANGE REQUEST												
ж	24.	.007	CR		ж	rev	-	Ħ	Curre	nt vers	3.6.0	<b>0</b> #
For <u><b>HELP</b></u> on using this form, see bottom of this page or look at the pop-up text over the <b>%</b> symbols.												
Proposed change affects:    # (U)SIM ME/UE ▼ Radio Access Network Core Network ■												
Title: #	Add	dition o	of RR_I	NO_ABO	RT_IND	prim	itive a	t RR	-SAP i	n MS s	side	
Source: #	Nol	kia										
Work item code: ₩	LCS	3							D	ate: ೫	07.03.200	1
Category: #	Α								Relea	ase: #	R99	
Use one of the following categories:  F (essential correction)  A (corresponds to a correction in an earlier release)  B (Addition of feature),  C (Functional modification of feature)  D (Editorial modification)  Detailed explanations of the above categories can be found in 3GPP TR 21.900.  Reason for change:  Use one of the following releases:  R96 (Release 1996)  R97 (Release 1997)  R98 (Release 1998)  R99 (Release 1999)  REL-4 (Release 4)  REL-5 (Release 5)								2) 16) 17) 18) 19)				
Reason for change	<i>z.</i> თ	not a even T324 take	if RR i If RR i O time Ionger ection	fter authos s needed within 1 than 10	enticatio d for LC: 0 secon seconds	n whi S sigr ds aft . This	ch cau nalling er las corre	uses . The t MM ection	that Rie conne intera enabl	R conrection ction.	nection will be is closed by N The LCS sign to indicate N to 04.08 will	e closed MS via nalling may MM that RR
Summary of chang	ge:♯	Addi	tion of	RR_NO_	ABORT	_IND	primit	tive a	t RR-S	SAP in	MS side	
Consequences if not approved:	ж	RR c	onnect	ion is rel	eased e	ven if	the R	RR is	neede	d for L	.CS signalling	I
Clauses affected:	ж	2., 9.	1.1, 9.	1.2, 9.1.2	2.xx (add	ded)						
Other specs affected:	*	Te	est spe	re specifi cification ecificatio	S	8	€					
Other comments:	ж			oupled w			8 (tdo	c NF	P-0100	101, 1	02 & 103).	

## 

## 2 REFERENCES

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.
- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.
- For this Release 1998 document, references to GSM documents are for Release 1998 versions (version 7.x.y).
- [1] GSM 01.04: "Digital cellular telecommunications system (Phase 2+); Abbreviations and acronyms".

  [2] GSM 03.01: "Digital cellular telecommunications system (Phase 2+); Network functions".
- [3a] GSM 03.60: "Digital cellular telecommunications system (Phase 2+); General Packet Radio Service (GPRS) Description; Stage 2".
- [3b] GSM 03.56: "Digital cellular telecommunications system (Phase 2+); GSM Cordless Telephony System (CTS), phase 1; CTS Architecture Description; Stage 2".
- [3] GSM 04.01: "Digital cellular telecommunications system (Phase 2+); Mobile Station Base Station System (MS BSS) interface General aspects and principles".
- [3cb] GSM 03.71: "Digital cellular telecommunications system (Phase 2+); Location Services (LCS) Functional Description; Stage 2".
- [3d] GSM 04.31: "3rd Generation Partnership Project; Technical Specification Group GSM EDGE Radio

  Access Network; Location Services (LCS); Mobile Station (MS) Serving Mobile Location Centre

  (SMLC) Radio Resource LCS Protocol (RRLP)."
- [4] GSM 04.05: "Digital cellular telecommunications system (Phase 2+); Data Link (DL) layer General aspects".
- [5] GSM 04.06: "Digital cellular telecommunications system (Phase 2+); Mobile Station Base Station System (MS BSS) interface Data Link (DL) layer specification".
- [6] GSM 04.08: "Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 specification".
- [7] GSM 04.10: "Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 Supplementary services specification General aspects".
- [8a] GSM 04.71: "Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 specification; Location Services (LCS) ".
- [8] GSM 04.11: "Digital cellular telecommunications system (Phase 2+); Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface".
- [9] GSM 04.80: "Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 supplementary services specification Formats and coding".
- [10] GSM 04.81: "Digital cellular telecommunications system (Phase 2+); Line identification supplementary services Stage 3".
- [10a] GSM 04.60: "Digital cellular telecommunications system (Phase 2+);
  General Packet Radio Services (GPRS); Mobile Station (MS) Base Station System (BSS) interface;
  Radio Link Control and medium Access Control (RLS/MAC) layer specification"

[10b] GSM 04.56: "Digital cellular telecommunications system (Phase 2+); GSM Cordless Telephony System (CTS), phase 1; CTS Radio Interface Layer 3 specification [11] GSM 04.82: "Digital cellular telecommunications system (Phase 2+); Call Forwarding (CF) supplementary services - Stage 3". GSM 04.64; "Digital cellular telecommunications system (Phase 2+); Mobile Station - GPRS support [11a] node (MS-SGSN) Logical Link Control Layer Specification". GSM 04.83: "Digital cellular telecommunications system (Phase 2+); Call Waiting (CW) and Call Hold [12] (HOLD) supplementary services - Stage 3". GSM 04.65: "Digital cellular telecommunications system (Phase 2+); General Packet Radio Service [12a] (GPRS); Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCP)". GSM 04.84: "Digital cellular telecommunications system (Phase 2+); MultiParty (MPTY) supplementary [13] services - Stage 3". [14] GSM 04.85: "Digital cellular telecommunications system (Phase 2+); Closed User Group (CUG) supplementary services - Stage 3". GSM 04.86: "Digital cellular telecommunications system (Phase 2+); Advice of Charge (AoC) [15] supplementary services - Stage 3". GSM 04.88: "Digital cellular telecommunications system (Phase 2+); Call Barring (CB) supplementary [16] services - Stage 3". [17] GSM 04.90: "Digital cellular telecommunications system (Phase 2+); Unstructured supplementary services operation - Stage 3". [18] CCITT Recommendation X.200: "Reference Model of Open systems interconnection for CCITT Applications".

### 

#### 9.1.1 Service state diagram

The primitives provided by the Radio Resource Management entity and the transition between permitted states are shown in figure 9.2.

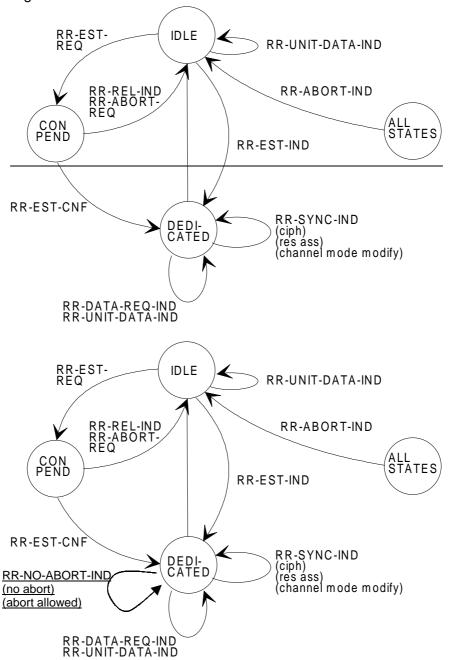


Figure 9.2: Service graph of the Radio Resource Management - MS side

#### 9.1.2 Service primitives

Table 9.1: Primitives and parameters at the RR-SAP - MS side

PRIMITIVES	PARAMETERS	REFERENCE
RR_EST_REQ	Layer 3 message transferred in the SABM frame	9.1.2.1
RR_EST_IND	-	9.1.2.2
RR_EST_CNF	-	9.1.2.3

RR_REL_IND	cause	9.1.2.4
RR_SYNC_IND	cause (ciphering, res. ass., channel mode modify)	9.1.2.5
RR_DATA_REQ	Layer 3 message	9.1.2.6
RR_DATA_IND	Layer 3 message	9.1.2.7
RR_UNIT DATA_IND	Layer 3 message	9.1.2.8
RR_ABORT_REQ	cause	9.1.2.9
RR_ABORT_IND	cause	9.1.2.10
RR_ACT_REQ	reselection mode	9.1.2.11
RR_NO_ABORT_IND	no abort/abort allowed	<u>9.1.2.xx</u>

### 

#### 9.1.2.xx RR\_NO\_ABORT\_IND

RR\_NO\_ABORT\_IND is used by RR to indicate MM that RR connection is still needed for signalling. This indication is sent to MM in the following case:

- RR needs RR connection (no abort);
- RR does not need RR connection (abort allowed).

RR\_NO\_ABORT\_IND (no abort) shall be sent to MM when any RRLP message is received. RR shall send RR\_NO\_ABORT\_IND (abort allowed) when the RRLP Procedure has been completed (LCS procedures specified in GSM\_03.71 [3c] and RRLP procedures in GSM\_04.31 [3d]). RR\_NO\_ABORT\_IND (abort allowed) shall be sent also when RR has received any RR message with high priority (as defined in GSM\_04.08).

RR NO ABORT IND primitive shall be supported by LCS capable MSs (MSs that support RRLP protocol, GSM 04.31 [3d]).