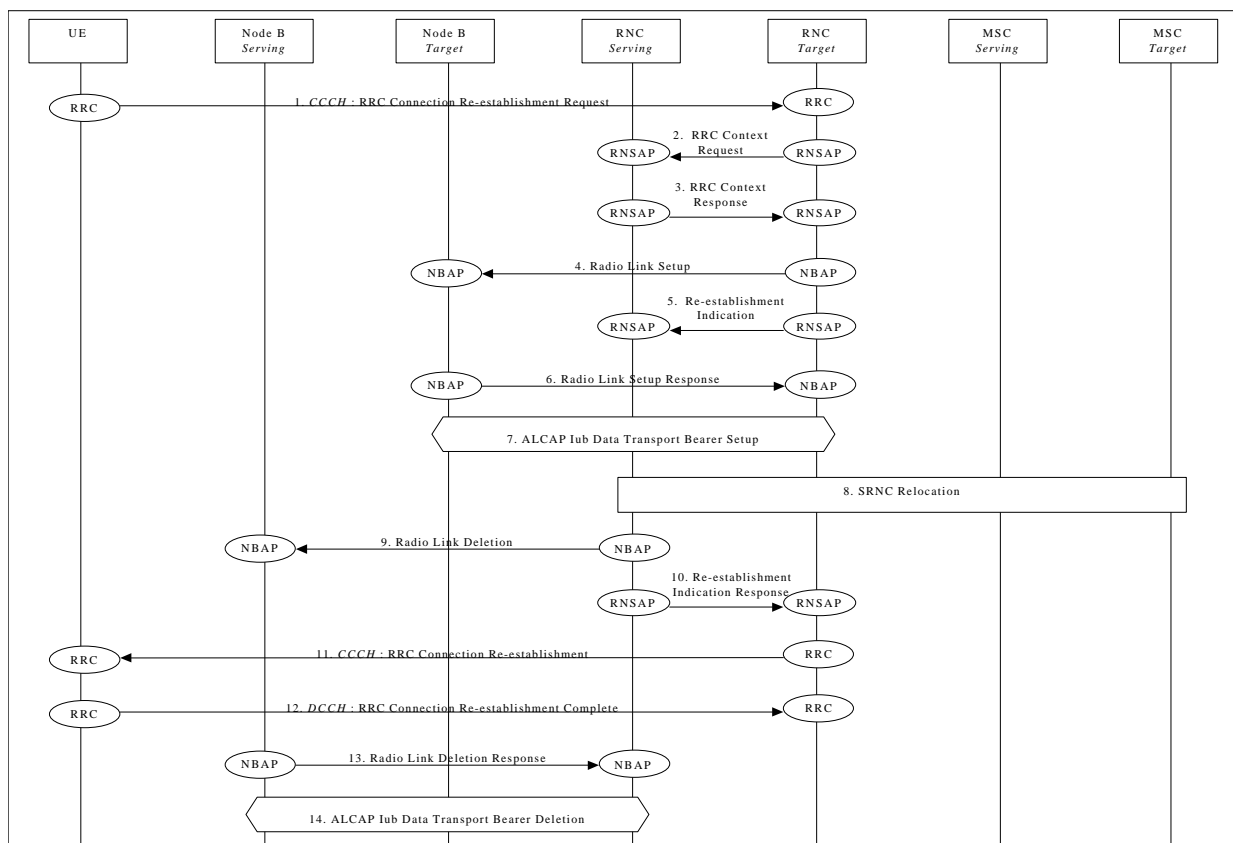


**Title:** RRC Connection Re-establishment –DCH Re-establishment  
**Source:** Italtel, Siemens, CSELT  
**Agenda Item:** 7.1 (UTRAN functions, signalling procedures - TR 25.931)  
**Document for:** Approval

This contribution proposes an example for the RRC Connection Re-establishment procedure, in case of DCH Re-establishment.  
 It is assumed that a signalling link is available on the Lur, but no DCH is required on this interface.  
 We propose to include this example in TR 25.931 'UTRAN Functions, Example on Signalling Procedure' (section 9.5.1).

### RRC Connection Re-establishment - DCH Re-establishment



**RRC Connection Re-establishment - DCH Re-establishment**

1. The UE initiates the re-establishment of the RRC connection with the new cell by sending **RRC Connection Re-establishment Request** message on CCCH.  
Parameters: Old RNTI, Old Cell Id.
2. The Target RNC requests the RRC context to the serving RNC with the RNSAP message **RRC Context Request**.

- Parameters: Old RNTI, Old Cell Id.
3. The Serving RNC sends the RRC context to the Target RNC (**RRC Context Response**).  
Parameters: Old RNTI, Transport Format Set, Channel Type, Transport Format Combination Set, frequency, UL scrambling code (FDD only), Time Slots (TDD only), User Codes (TDD only), DL channelisation code.
  4. The target RNC allocates RNTI and radio resources for the RRC connection, and sends the NBAP message **Radio Link Setup** to the target Node B.  
Parameters: Cell id, Transport Format Set, Transport Format Combination Set, frequency, UL scrambling code (FDD only), Time Slots (TDD only), User Codes (TDD only), DL channelisation code (FDD only), Power control information.
  5. The target RNC sends the RNSAP message **Re-establishment Indication** to the SRNC in order to trigger the SRNC relocation procedure (steps 4 and 5 are performed simultaneously).
  6. Node B allocates resources, starts PHY reception, and responds with NBAP message **Radio Link Setup Response**.  
Parameters: Signalling link termination, Transport layer addressing information for the Iub Data Transport Bearer.
  7. Target RNC initiates set-up of Iub Data Transport bearer using ALCAP protocol. This request contains the AAL2 Binding Identity to bind the Iub Data Transport Bearer to the DCH. The request for set-up of Iub Data Transport bearer is acknowledged by Node B.
  8. SRNC relocation procedure is triggered by the reception of the RNSAP message **Re-establishment Indication**.
  9. The Serving RNC sends NBAP message **Radio Link Deletion** to Node B.  
Parameters: Cell id, Transport layer addressing information.
  10. The conclusion of the SRNC relocation procedure is notified to the target RNC from the old SRNC by means of the RNSAP message **Re-establishment Indication Response**.
  11. Message **RRC Connection Re-establishment** is sent on CCCH from target RNC to UE.  
Parameters: Old RNTI, New RNTI, Transport Format Set, Transport Format Combination Set, frequency, DL scrambling code (FDD only), Time Slots (TDD only), User Codes (TDD only), DL channelisation code (FDD only).
  12. Message **RRC Connection Re-establishment Complete** is sent on the new DCCH from the UE to the Target RNC.
  13. Node B deallocates radio resources. Successful outcome is reported in NBAP message **Radio Link Deletion Response**.
  14. The old SRNC initiates release of Iub Data Transport bearer using ALCAP protocol.