Agenda Item:

Source: **Vodafone**

Title: **Iu Resource Release**

Document for:

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**ETSI SMG2 UTRAN Architecture Experts GroupTdoc   SMG2 UMTS-ARC xxxx
Bonn, Germany
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Source: Vodafone

Iu Resource Release

1   Introduction

This contribution describes the Bearer Release procedure for the Iu Interface.

2   Iu Resource Release

2.1   Release Due To Transaction Completion

The release of an assigned Bearer at the end of a transaction will take place as follows:

Release negotiation will take place directly between the UE and SGSN via the SRNC.

The SGSN will send a BEARER RELEASE command, indicating that the radio resource should be released. No further messages will be sent from the SGSN related to this connection.

When the SRNC receives this BEARER RELEASE command, clearing of the radio interface is initiated for all the resources related to this UE for this CN. The SRNC should return a BEARER RELEASE COMPLETE command, making the previous bearer available for reuse.

On receipt of a BEARER RELEASE COMPLETE, the previously unavailable radio resource is available for reuse in the SGSN.
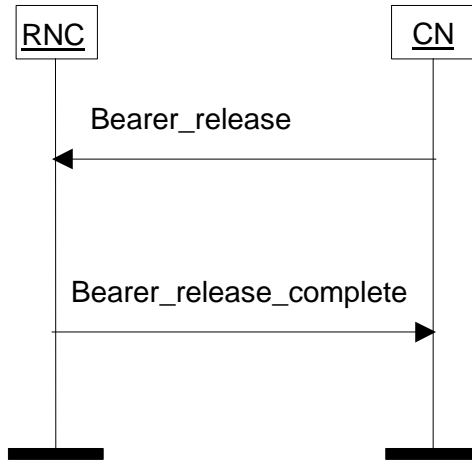
Figure 1. Release Due To Transaction Completion Procedure.

2.2   *Release Due to SNRC*

If a radio channel release is required because of a SNRC generated reason then the SRNC shall generate a BEARER RELEASE REQUEST message towards the SGSN.

If transmission from the UE is lost then a BEARER RELEASE REQUEST message shall be sent to the SGSN.

On receipt of a BEARER RELEASE REQUEST the SGSN shall initiate the release, as defined above, by sending a BEARER RELEASE command message. On receipt of this message the SRNC shall, if the resources are not already internally released, release the resources in the normal way. The procedure is always terminated with a BEARER RELEASE COMPLETE to the SGSN.
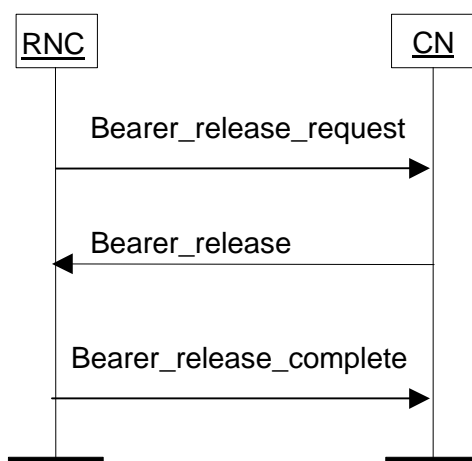

Figure 2. Release Due to SNRC.

2.3 *Release due to successful SRNC relocation*

If a bearer release is required because of an SRNC relocation being successfully completed to a new SRNC, then the resources at the old SRNC are released by the MSC/SGSN using the clearing sequence with a cause value: "relocation complete".
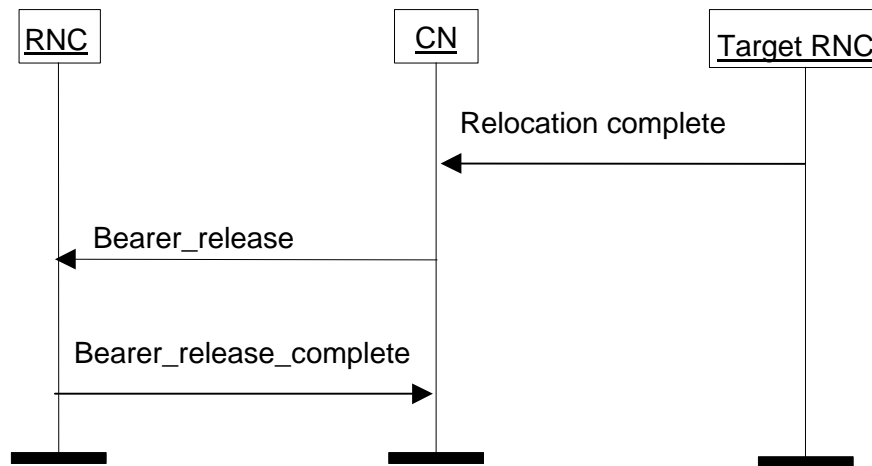

Figure 3. Release Due to SNRC.

3 Proposal

It is proposed to approve the Iu procedure outlined in section 2 above of this contribution to be included in section 9.2.2.4 of Description of Iu Interface UMTS ZZ.11.

4 References

[1] UMTS ZZ.11: Description of Iu Interface.