

Title: Radio Access Bearer Establishment: USCH Establishment in RACH/FACH State

Source: Italtel / Siemens

Agenda Item: 23

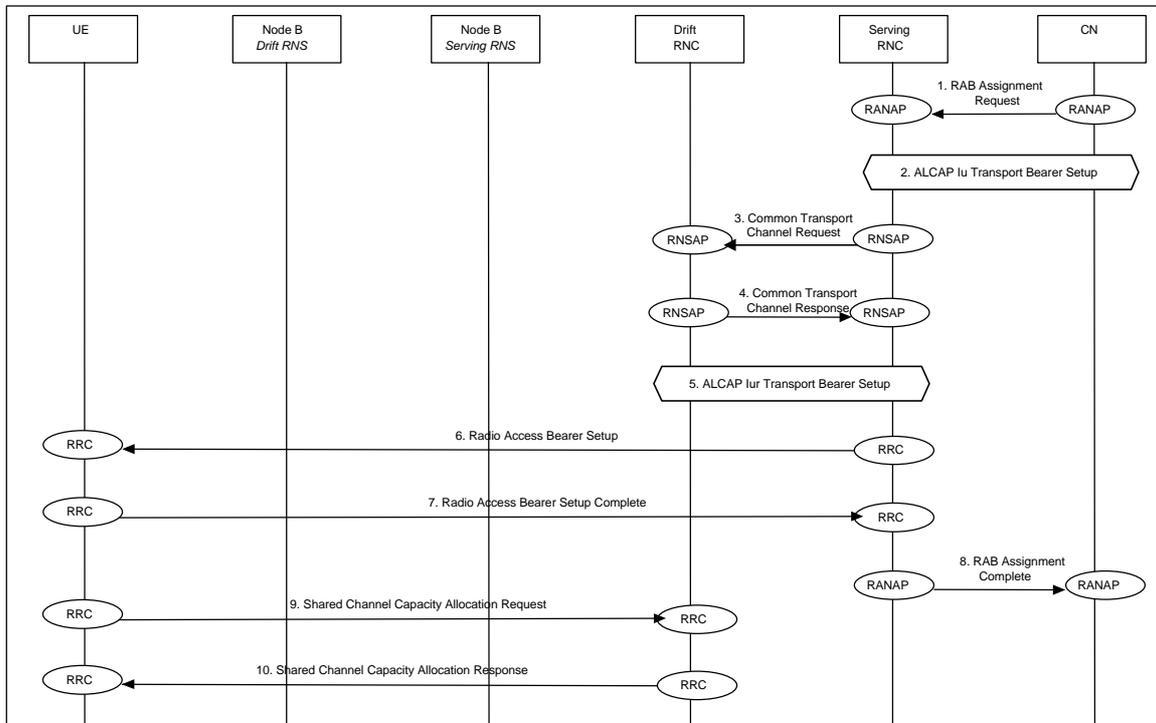
Document for: Approval

1. Introduction

This proposes an example of radio access bearer establishment on a USCH when the RRC connection uses a common transport channel (RACH/FACH).

2. USCH Establishment in RACH/FACH State

This example shows establishment of a radio access bearer on a USCH when the RRC connection uses a common transport channel (RACH/FACH).



Radio Access Bearer Establishment - USCH Establishment in RACH/FACH State

1. CN initiates establishment of the radio access bearer with RANAP Radio Access Bearer Assignment Request message (**RAB Assignment Request**).
Parameters: RAB QoS parameters, AAL2 binding Identity
2. SRNC performs mapping of the RAB QoS parameters to AAL2 link characteristics and initiates set-up of Iu Data Transport bearer with ALCAP.
3. SRNC requests DRNC to setup a Common Transport Channel over Iur (**Common Transport Channel Request**). In this example it is assumed that a new Common Transport Channel is established and not that a pre-existing Common Transport Channel is used.
4. DRNC notifies SRNC that the setup is done (**Common Transport Channel Response**).
Parameters: Transport layer addressing information (AAL2 address, AAL2 Binding Id) for Iub Transport Bearer.
5. SRNC initiates setup of Iur Data Transport Bearer using ALCAP protocol. This request contains the AAL2 Binding Identity to bind the Iur Data Transport Bearer to DSCH.
6. RRC message **Radio Access Bearer Setup** is sent by SRNC to UE.
Parameters: Transport Format Set.
7. UE sends RRC message **Radio Access Bearer Setup Complete** to SRNC.
8. SRNC sends RANAP message **Radio Access Bearer Assignment Complete** to CN.
Parameters: Binding ID.
9. UE send a **Shared Channel Capacity Allocation Request** on the RACH. This also allows the C-RNC to determine the Timing Advance to apply to the USCH (this message is under discussion in WG2).
10. C-RNC allocates USCH resources to UE by means of the RRC message **Shared Channel Capacity Allocation** (this message is under discussion in WG2).
Parameters: Timing Advance, PDSCH Parameters.

3. Proposal

It is proposed to add section 2 of this contribution to section 9.6 of TS 25.931.