

Agenda Item: 6.1
Source: Alcatel
Title: Addition of DSCH protocol stack model to TS 25.401.
Document for: Decision

1. Introduction

This input paper proposes the addition of a model of the DSCH transport channel to be added to the Protocol Model section of [1]. This informative section shows protocol stack models for all other transport channels currently specified, therefore, a similar model should be included for the DSCH.

2. DSCH protocol stack model

2.1 DSCH Transport Channel

Figure 1 shows the protocol model for the DSCH transport channel when the Controlling and Serving RNC are co-incident.

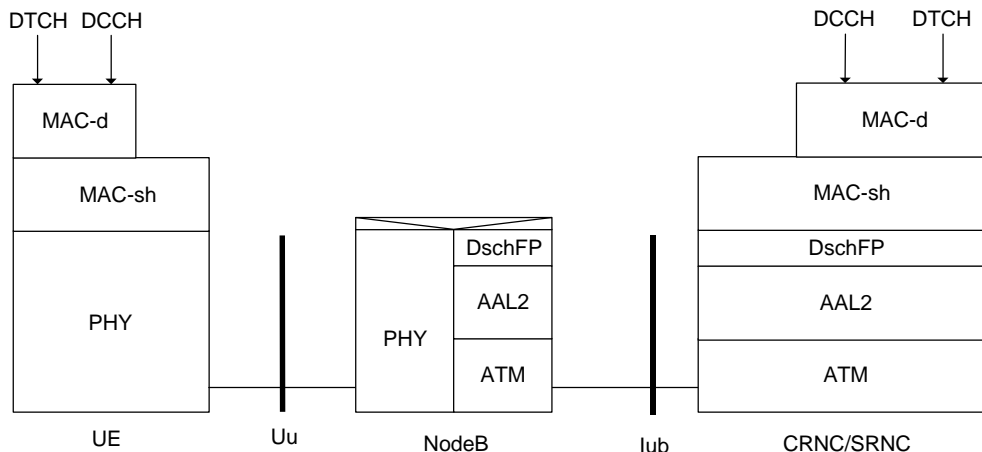


Figure 1. DSCH Co-incident Controlling and Serving RNC

The Shared MAC (MAC-sh) entity in the RNC transfers MAC-sh PDU to the peer MAC-sh entity in the UE using the services of the DSCH Frame Protocol (DSCH FP) entity. The DSCH FP entity adds header information to form a DSCH FP PDU which is transported to the Node B over an AAL2 (or AAL5) connection.

An Interworking Function (IWF) in the Node B interworks the DSCH frame received by DSCH FP entity into the PHY entity. DSCH scheduling is performed by MAC-sh in the CRNC.

Figure 2 shows the protocol model for the DSCH transport channel with separate Controlling and Serving RNC. In this case, Iur DSCH Frame Protocol is used to interwork the MAC-sh at the Controlling RNC with the MAC-d at the Serving RNC.

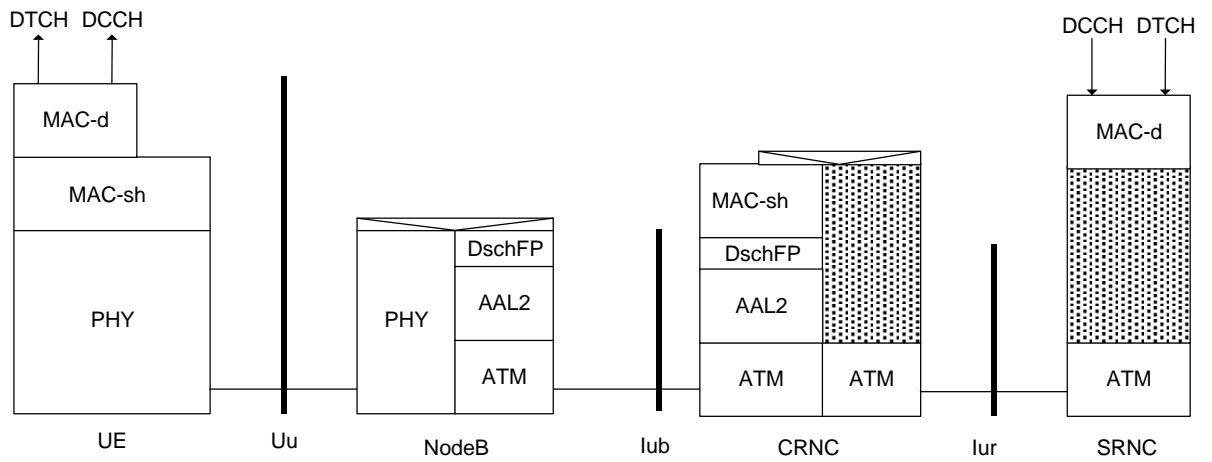


Figure 2. DSCH: Separate Controlling and Serving RNC

3. Proposal

It is proposed that Section 2.1 included in Section 11.2 of [1].

4. References

- [1] TS 25.401 UTRAN Overall Description.