

Title: Classification of reconfiguration procedures

Source: Italtel, Siemens, CSELT

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This contribution proposes a classification of reconfiguration procedures (i.e. Physical Channel Reconfiguration, Transport Channel Reconfiguration & RAB Reconfiguration).
The same classification can be applied to other procedures (e.g. DCH to DCH Establishment).
The content presented in this document is proposed to be added in TS 25.401 'UTRAN Overall Description'.
Furthermore it is proposed that the terminology in all WG3 Specifications is updated accordingly.

Definitions

Synchronised reconfiguration procedure

In a synchronised reconfiguration procedure the requested reconfiguration takes place at the same time in the UE and in all the involved nodes B and/or SRNC.

Unsynchronised reconfiguration procedure

In an unsynchronised reconfiguration procedure the reconfiguration time does not require to be synchronised among UE, Nodes B and/or SRNC.

Coordinated reconfiguration procedure

In a coordinated reconfiguration procedure the requested reconfiguration is agreed with all the involved nodes B before being performed (committed).

Uncoordinated reconfiguration procedure

In an uncoordinated reconfiguration procedure the requested reconfiguration does not require to be agreed with all the involved nodes B before being performed.

The presented terminology seems to be aligned with the one adopted in WG2, but not with the one adopted in WG3. In fact the procedures presented in TS 25.931 (UTRAN Functions, Example on Signalling Procedure), TS 25.423 (RNSAP Specification) and TS 25.433 (NBAP Specification) use the term 'synchronised' to indicate a procedure that is coordinated by the SRNC.

For example the Synchronised DCH-DCH Establishment procedure in TS 25.931 (section 9.6.1) is in reality a Coordinated DCH-DCH Establishment procedure. In this coordinated procedure a synchronisation scheme (e.g. based on CFN) can be also adopted, but the synchronous nature of the procedure is not shown by the information flow.

Similarly the Unsynchronised DCH-DCH Establishment procedure in TS 25.931 (section 9.6.2) is in reality an Uncoordinated DCH-DCH Establishment procedure. Also for an uncoordinated procedure a synchronisation scheme can be adopted.

From the previous examples it should be clear that the terminology in WG3 Specifications is inconsistent and is proposed to be modified