

Palm Springs, CA, USA, March 13-16, 2001**Agenda item:** Rel'4 study items**Source:** Rapporteur**Title:** Status Report of Study Item "USTS"**Document for:** Information

This document provides a status report of the study item 'Uplink synchronous transmission scheme'. TSG-RAN WG1 is the leading working group for this study item. A technical report was created in WG1 for the feasibility study on this item, which includes concept, performance, and complexity. The TR shall be used for evaluation of new methods and enhancements of existing methods.

The status of each involved WG is summarized below:

RAN WG1

Based on the discussions on performance and complexity of this item in RAN WG1 meetings #15, #16, and #17, a technical report (TR25.854) was created for feasibility study on this item in RAN WG1 #17. It covered the overall description on USTS, simulation results for USTS performance, complexity, and impacts to other WGs. During RAN WG1 meeting #18, Nokia proposed to change the timing update rate and the TR was revised based on this agreed change. Additionally, there was an approved contribution from LGE on soft handover candidates and the relevant complexity issue. Descriptive texts were added onto the TR. After some clarifying modifications, the TR was finalized in RAN WG1 meeting #19 from the feasibility study point of view. The agreed version of the TR (TR25.854 version 1.0.0) is submitted to RAN #11 and the item 'USTS' is expected to be evolved to Work Item of Release 5 in RAN #11.

There were two more contributions from samsung and LGE on detailed issues such as channelisation code assignment and TAB transmission. They were just noted and it was agreed in RAN WG1 to discuss the details on those item in the specification phase.

RAN WG2

Technical documents will be presented regarding the impact of USTS after approval in RAN #11. Future works planned in WG2 are as follows:

1. Impact on RRC layer signaling message to support USTS
2. Impact on inter-layer procedure and primitive.

RAN WG3

A technical report (TR25.839) was created in RAN WG3 meeting #15 to investigate the impact of USTS to WG3. During RAN WG3 #18, the impact on Iub and Iur was discussed and a text proposal regarding some more details on Iur impact and call procedures was submitted in RAN WG3 #19 but not discussed due to lack of time. The version of the TR is 0.1.0.