# Uplink Synchronous Transmission Scheme (USTS)

### 1 3GPP Work Area

| | |
|---|---|
| X | Radio Access |
| | Core Network |
| | Services |

## 2 Linked work items

*none*

## 3 Justification

USTS is expected to provide good capacity in the uplink with low overhead and minimal impact on hardware and software resources at UE and in the UTRAN.

## 4 Objective

The purpose of this work item is to increase the uplink capacity by means of making a cell receive orthogonalized signals from UEs.

### 5 Service Aspects

*None*

## 6 MMI-Aspects

*None*

## 7 Charging Aspects

*None*

## 8 Security Aspects

*None*

## 9 Impacts

| Affects: | USIM | ME | AN | CN | Others |
|---|---|---|---|---|---|
| **Yes** | | X | X | | |
| **No** | X | | | X | X |

| Don't know | | | | | |
|---|---|---|---|---|---|

## 10      Expected Output and Time scale (to be updated at each plenary)

| New specifications | | | | | | |
|---|---|---|---|---|---|---|
| Spec No. | Title | Prime rsp. WG | 2ndary rsp. WG(s) | Presented for information at plenary# | Approved at plenary# | Comments |
| | | WG1 | | | RAN#14 | |
| | | | | | | |
| **Affected existing specifications** | | | | | | |
| Spec No. | CR | Subject | | Approved at plenary# | | Comments |
| 25.211 | | Physical channels and mapping of transport channels onto physical channels (FDD) | | RAN #14 | | |
| 25.213 | | Spreading and modulation (FDD) | | RAN #14 | | |
| 25.214 | | FDD : Physical layer procedures | | RAN #14 | | |
| 25.331 | | Radio Resource Control (RRC) Protocol Specification | | RAN #14 | | |
| 25.413 | | UTRAN Iu Interface RANAP Signalling | | RAN #14 | | |
| 25.423 | | UTRAN Iur Interface RNSAP Signalling | | RAN #14 | | |
| 25.433 | | UTRAN Iub Interface NBAP Signalling | | RAN #14 | | |

## 11      Work item raporteurs

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## 12      Work item leadership

TSG RAN WG1

## 13      Supporting Companies

ETRI, LGIC, Samsung, Shinsegi, SK Telecom

## 14      Classification of the WI (if known)

| | Feature (go to 14a) |
|---|---|
| X | Building Block (go to 14b) |
| | Work Task (go to 14c) |

14a      The WI is a Feature: List of building blocks under this feature

(list of Work Items identified as building blocks)

14b     The WI is a Building Block: parent Feature

This is a building block part of the radio interface improvement feature.

14c     The WI is a Work Task: parent Building Block

(one Work Item identified as a building block)