

## Work Item Sheet

### 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 resp. WG   | 2ndary resp. WG(s) | Presented for information at plenary# | Approved at plenary# | Comments |
|                                  |       | WG1  |                    |                                       | RAN#154              |          |
| 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 #154                              |                      |          |
| 25.213                           |       | Spreading and modulation (FDD)   |                    | RAN #154                              |                      |          |
| 25.214                           |       | FDD : Physical layer procedures  |                    | RAN #154                              |                      |          |
| 25.302                           |       | Services provided by the physical layer  |                    | RAN #15                               |                      |          |
| 25.331                           |       | Radio Resource Control (RRC) Protocol Specification                              |                    | RAN #154                              |                      |          |
| 25.413                           |       | UTRAN Iur Interface RANAP Signalling   |                    | RAN #154                              |                      |          |
| 25.423                           |       | UTRAN Iur Interface RNSAP Signalling   |                    | RAN #154                              |                      |          |
| 25.433                           |       | UTRAN Iub Interface NBAP Signalling  |                    | RAN #154                              |                      |          |

**11 Work item rapporteurs**

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**12 Work item leadership**

TSG RAN WG1

**13 Supporting Companies**

ETRI, LGE, Nokia, 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)