

**Source:** Ericsson  
**Title:** Proposed WI: Realisation of Enhanced power control and signalling support  
**Document for:** Decision

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### Work Item Description

#### **Title**

Realisation of Enhanced power control and signalling support

#### **1 3GPP Work Area**

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

#### **2 Linked work items**

This work item is linked to the feature “Enhanced Power control in GERAN”

#### **3 Justification**

This feature will increase system capacity of GERAN.

#### **4 Objective**

To increase system capacity of GERAN by means of faster power control.

#### **5 Service Aspects**

*None*

#### **6 MMI-Aspects**

*None*

#### **7 Charging Aspects**

*None*

#### **8 Security Aspects**

None

**9 Impacts**

| <b>Affects:</b>   | <b>USIM</b> | <b>ME</b> | <b>AN</b> | <b>CN</b> | <b>Others</b> |
|-------------------|-------------|-----------|-----------|-----------|---------------|
| <b>Yes</b>        |             | X         | X         |           |               |
| <b>No</b>         | X           |           |           | X         | X             |
| <b>Don't know</b> |             |           |           |           |               |

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

| <b>New specifications</b>               |            |                                        |                      |                                             |                         |          |
|-----------------------------------------|------------|----------------------------------------|----------------------|---------------------------------------------|-------------------------|----------|
| Spec No.                                | Title      | Prime<br>rsp. WG                       | 2ndary<br>rsp. WG(s) | Presented for<br>information at<br>plenary# | Approved at<br>plenary# | Comments |
|                                         |            |                                        |                      |                                             |                         |          |
|                                         |            |                                        |                      |                                             |                         |          |
| <b>Affected existing specifications</b> |            |                                        |                      |                                             |                         |          |
| Spec No.                                | CR         | Subject                                |                      | Approved at plenary#                        | Comments                |          |
| 43.051                                  | 024 rev 1  | Stage 2 description                    |                      | TSG GERAN #5                                |                         |          |
| 44.004                                  | 002<br>006 | Signalling in SACCH                    |                      | TSG GERAN #6<br>TSG GERAN #7                |                         |          |
| 44.018                                  | 078 rev 2  | Signalling at channel setup            |                      | TSG GERAN #6                                |                         |          |
| 48.058                                  | 002 rev 2  | Abis signalling                        |                      | TSG GERAN #6                                |                         |          |
| 45.001                                  | 003 rev 1  | L1 general                             |                      | TSG GERAN #6                                |                         |          |
| 45.002                                  | 020 rev 1  | Channels and channel combinations      |                      | TSG GERAN #6                                |                         |          |
| 45.003                                  | 004 rev 1  | Channel coding                         |                      | TSG GERAN #5                                |                         |          |
| 45.008                                  | 059        | Procedures, measurements and reporting |                      | TSG GERAN #6                                |                         |          |

**11 Work item rapporteurs**

Stefan Eriksson, Ericsson

**12 Work item leadership**

TSG GERAN

**13 Supporting Companies**

AWS, Ericsson, Nokia, Nortel, Siemens, Vodafone

**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:

14b The WI is a Building Block:

|                |                       |                  |
|----------------|-----------------------|------------------|
| <b>Feature</b> | <b>Building Block</b> | <b>Work task</b> |
|----------------|-----------------------|------------------|

|                        |                                                              |                                                                                                                                                                                 |
|------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Enhanced Power Control | Realisation of Enhanced power control and signalling support | Concept<br>Changes to 43.051<br>Changes to 44.004<br>Changes to 44.018<br>Changes to 48.058<br>Changes to 45.001<br>Changes to 45.002<br>Changes to 45.003<br>Changes to 45.008 |
|                        | GERAN MS Conformance test for Enhanced Power Control         | MS test                                                                                                                                                                         |
|                        | GERAN BTS Conformance test for Enhanced Power Control        | BTS test                                                                                                                                                                        |

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