3GPP TSG SA Meeting #SP-92E TDoc SP-210541rev2

15 - 21 June 2021, Electronic meeting

**Source: LG Electronics, KT Corp., LG Uplus, SK Telecom**

**Title: New WID on Minimization of Service Interruption**

**Document for: Approval**

**Agenda Item: 2.2**

*Abstract: This is for Alternative plan (B) of Discussion paper (SP-210540)*

3GPP™ Work Item Description

Information on Work Items can be found at <http://www.3gpp.org/Work-Items>   
See also the [3GPP Working Procedures](http://www.3gpp.org/specifications-groups/working-procedures), article 39 and the TSG Working Methods in [3GPP TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm)

# Title: Minimization of Service Interruption

## Acronym: MINT

## Unique identifier: *{A number to be provided by MCC at the plenary}*

Potential target Release: Rel-17

## 1 Impacts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Affects:** | UICC apps | ME | AN | CN | Others (specify) |
| **Yes** |  | X | X | X |  |
| **No** | X |  |  |  | X |
| **Don't know** |  |  |  |  |  |

## 2 Classification of the Work Item and linked work items

### 2.1 Primary classification

This work item is a …

|  |  |
| --- | --- |
| X | Feature |
|  | Building Block |
|  | *Work Task* |
|  | Study Item |

### 2.2 Parent Work Item

|  |  |  |  |
| --- | --- | --- | --- |
| Parent Work / Study Items | | | |
| Acronym | Working Group | Unique ID | Title (as in 3GPP Work Plan) |
| MINT | SA WG1 | 850036 | Stage 1 of Support for Minimization of service Interruption |

### 2.3 Other related Work Items and dependencies

|  |  |  |
| --- | --- | --- |
| Other related Work Items (if any) | | |
| Unique ID | Title | Nature of relationship |
| 900004 | Study on the CT aspects of Support for Minimization of service Interruption | Rel-17 Stage 2 study on MINT (CT1) |

## 3 Justification

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As determined in TSG #89e, TSG SA tasked CT1 to perform study on the developing the feature of MINT work and CT1 is in the process of finalising their study in TR 24.811.

Considering the requirements for MINT and CT1 is close to the final conclusion of FS\_MINT, update of stage 2 aspects of SA2 is needed to complete normative stage 2 based on work in CT1.

## 4 Objective

The objective of this work is to specify the stage 2 normative work of MINT based on CT1 work for the specifications under SA2 control

Based on the conclusion of TR 24.811, the following issues have to be addressed regarding SA2 work:

- Notification of Disaster Condition to the UE

- Indication of accessibility from other PLMNs without Disaster Condition to the UE

- Registration to the roaming PLMN without Disaster Condition in case of Disaster Condition

- Notification that Disaster Condition is no longer applicable to the UEs

- Prevention of signalling overload in PLMNs without Disaster Condition

- Prevention of signalling overload by returning UEs in PLMN previously with Disaster Condition

Impacts on potentially additional specifications under SA2 will be determined during the work.

Note：PLMN selection aspects will be addressed by CT1

## 5 Expected Output and Time scale

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **New specifications** *{One line per specification. Create/delete lines as needed}* | | | | | |
| Type | TS/TR number | Title | For info  at TSG# | For approval at TSG# | Rapporteur |
|  |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Impacted existing TS/TR** *{One line per specification. Create/delete lines as needed}* | | | |
| TS/TR No. | Description of change | Target completion plenary# | Remarks |
| TS 23.501 | Adding the functionality on MINT | SA#94  (Dec. 2021) |  |
| TS 23.502 | Updating the corresponding procedures on MNT | SA#94  (Dec. 2021) |  |

## 6 Work item Rapporteur(s)

Hyunsook Kim, LG Electronics, [hyuns.kim@lge.com](mailto:hyuns.kim@lge.com)

## 7 Work item leadership

SA2

## 8 Aspects that involve other WGs

The following aspects may arise related to this WID:

- Security aspects - RAN aspects

- PLMN selection and Access control aspects

## 9 Supporting Individual Members

|  |
| --- |
| Supporting IM name |
| LG Electronics |
| KT Corp. |
| LG Uplus |
| SK Telecom |
| Huawei |
| Hisilicon |
| Qualcomm |
| Ericsson |
| Samsung |