**3GPP TSG-CT WG4 Meeting #105-eC4-214xyz**

**E-Meeting, 17th – 27th August 2021 (revision of CP-211195)**

**Source: Ericsson**

**Title: Revised WID on CT aspects on Dynamic management of group-based event monitoring**

**Document for: Endorsement**

**Agenda Item: 5**

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: CT aspects on Dynamic Management of Group-based Event Monitoring

## Acronym: TEI17\_GEM

## Unique identifier: 910010

Potential target Release: Rel-17

Note that this field above indicates the proposed Release at the time of submission of the WID to TSG approval. It can later be changed without a need to revise the WID. The updated target Release is indicated in the Work Plan.

## 1 Impacts

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

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

### 2.1 Primary classification

This work item is a …

|  |  |
| --- | --- |
|  | Feature |
| X | 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) |
| TEI17\_GEM | SA2 | 870007 | Dynamic management of group-based event monitoring |

### 2.3 Other related Work Items and dependencies

|  |
| --- |
| Other related Work Items (if any) |
| Unique ID | Title | Nature of relationship |
|  |  | *{optional free text}*  |

**Dependency on non-3GPP (draft) specification**: none.

## 3 Justification

Dynamic management of group-based event monitoring (TEI17\_GEM) is a Rel-17 SA WGs work which impacts the CT WGs (see WID in [SP-210364](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGs_92E_Electronic_2021_06/Docs/SP-210364.zip)).

In the case of a group-based monitoring event, the same event is monitored for all the group member UEs in the group.

For a UE belonging to a group which has an active group-based event configuration, the UE’s event monitoring may be cancelled due to reasons such as the UE’s subscription deleted from the HSS while monitoring is active, or the UE’s authorization for a given event is revoked, or the UE’s event monitoring cancelled, or the UE removed from the group.

If the Enhanced Multiple Event Monitoring feature is not supported, the event monitoring for all the other members in the group will have to be cancelled upon the UE’s monitoring event cancellation with any of the above reasons. That is, dynamic management of group-based event monitoring is not supported, while such dynamic management is necessary to avoid unexpected event cancellation for the other group members within the group, upon some MTC providers require dynamic management of group-based event monitoring tasks to be as smooth as possible (e.g. a car hiring company changing cars from one group to another one, decommissioning cars, selling cars, etc.)

Even if the Enhanced Multiple Event Monitoring feature is supported, there is no clear mechanism how the group monitoring event is handled if one or more group members are removed.

This feature proposal in SA2 WG is applicable to EPS and 5GS, to clarify the handling of event cancellation for an individual member or a sub-set of members from a group, and to ensure that event cancellation of some member(s) does not affect other members in the group in TS 23.682 and TS 23.502.

## 4 Objective

The objective of this work item is to develop the Stage 3 specifications to enable the Dynamic management of group-based event monitoring as specified by Stage 2.

The Stage 3 work shall be started only after the applicable normative Stage 2 work is available.

The following areas of work are expected to be covered:

CT3:

- Definition of the handling of event cancellation for an individual member or a sub-set of members from a group, and to ensure that event cancellation of some member(s) does not affect other members in the group.

- Updates group-based Monitoring Event configuration and report procedure and data structure for MonitoringEvent API via T8 and N33 interface.

CT4:

- Updates group-based Monitoring Event configuration and report procedure and AVPs interact between the SCEF and the HSS via S6t interface;

- Updates group-based Monitoring Event with partial cancellation and reporting in Nudm\_EventExposure service and Namf\_EventExposure service.

## 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 |
| 29.122 | Updates in procedures and data model of event cancellation for member(s) from a group-based event monitoring, and to ensure does not affect other members in the group for MonitoringEvent API via T8 interface. | TSG#95(March 2022) | CT3 responsibility |
| 29.522 | Updates in procedure of event cancellation for member(s) from a group-based event monitoring, and to ensure does not affect other members in the group for MonitoringEvent API via N33 interface. | TSG#95(March 2022) | CT3 responsibility |
| 29.336 | Updates in procedures and AVPs of event cancellation for member(s) from a group-based event monitoring in HSS, and to ensure does not affect other members in the group interact between the SCEF and the HSS via S6t interface. | TSG#95(March 2022) | CT4 responsibility |
| 29.503 | Updates in procedure and data structure to support partial cancellation for member(s) from a group-based event monitoring for Nudm\_EventExposure service in Nudm\_EE API, and to ensure does not affect other members in the group. | TSG#95(March 2022) | CT4 responsibility |
| 29.518 | Updates in procedure and data structure to support partial cancellation for member(s) from a group-based event monitoring for Namf\_EventExposure service in Namf\_EventExposure API, and to ensure does not affects other members in the group. | TSG#95(March 2022) | CT4 responsibility |

## 6 Work item Rapporteur(s)

Maria Tianmei, Liang, Ericsson. maría.liang@ericsson.com

## 7 Work item leadership

CT3

## 8 Aspects that involve other WGs

None.

## 9 Supporting Individual Members

|  |
| --- |
| Supporting IM name |
| Ericsson |
| China Mobile |
| Samsung |
| AT&T |
| Convida Wireless LLC |
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