**3GPP TSG-SA5 Meeting #141-e *S5-221368***

e-meeting, 17 -26 January 2022 (revision of xx-yyxxxx)

Source: China Unicom

Title: New SID on Advanced Alarm Management for 5G

Document for: Approval

Agenda Item: 6.2

# 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: Study on Advanced Alarm Management for 5G

Acronym: FS\_5GAAM

Unique identifier:

Potential target Release: *Rel-18*

# 1 Impacts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Affects: | UICC apps | ME | AN | CN | Others (specify) |
| Yes |  |  | X |  |  |
| No | 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 |
|  | Building Block |
|  | Work Task |
| X | Study Item |

## 2.2 Parent Work Item

|  |  |  |  |
| --- | --- | --- | --- |
| Parent Work / Study Items | | | |
| Acronym | Working Group | Unique ID | Title (as in 3GPP Work Plan) |
|  |  |  |  |

### 2.3 Other related Work Items and dependencies

|  |  |  |
| --- | --- | --- |
| Other related Work /Study Items (if any) | | |
| Unique ID | Title | Nature of relationship |
|  |  |  |

Dependency on non-3GPP (draft) specification:

# 3 Justification

3GPP specifies typical 5G deployment and management scenarios, including eMBB (enhanced Mobile Broadband), URLLC (Ultra Reliable Low Latency Communications), and mMTC (massive Machine Type Communications).

The advanced alarm management (AAM) specifies management information and rules based on different scenarios. For the scenarios to be specified, the AAM requirements, rules, information and functionalities need to be defined for eMBB, URLLC, mMTC.

In existing TS 32.121, TS 32.122, it is needed to enhance AAM (advanced alarm management) Itf-N (Interface-N).

In TS 32.121, TS 32.122, the existing AAM is based on IRP, not based on SBMA. For SBMA, it is needed to research SBMA based AAM.

It is needed to investigate whether all AAM functionalities in TS 32.121 and TS 32.122 can be applied for 5G.

# 4 Objective

The objective of this study item is to enhance the 5G advanced alarm management (AAM) on the basis of TS 32.121 and TS 32.122, by investigating the following aspects:

* Investigate the 5G AAM requirements, information, rules and functionalities for URLLC (Ultra Reliable Low Latency Communications) scenario.
* Investigate the 5G AAM requirements, information, rules and functionalities for mMTC (massive Machine Type Communications) scenario.
* Investigate the AAM MnS.
* For existing IRP based AAM, investigate which could be reused for SBMA based 5G AAM. Furthermore, investigate what contents are needed to be added to SBMA based 5G AAM.

# 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 |
| Internal TR | Internal TR | Study on Advanced Alarm Management for 5G | SA#96 (June 2022) | SA#97 (Sep 2022) | Lexi Xu, China Unicom, xulx29@chinaunicom.cn |

|  |  |  |  |
| --- | --- | --- | --- |
| Impacted existing TS/TR {One line per specification. Create/delete lines as needed} | | | |
| TS/TR No. | Description of change | Target completion plenary# | Remarks |
|  |  |  |  |
|  |  |  |  |

# 6 Work item Rapporteur(s)

Lexi Xu, China Unicom, xulx29@chinaunicom.cn

# 7 Work item leadership

SA5

# 8 Aspects that involve other WGs

# 9 Supporting Individual Members

{At least 4 supporting Individual Members are needed. There is an expectation that these companies will provide resources to progress the work. Note that having 4 supporting companies is a necessary but not sufficient condition: the usual TSG approval process by consensus is needed for the WID approval}

|  |
| --- |
| Supporting IM name |
| China Unicom |
| HUAWEI |
| China Mobile |
| AsiaInfo |
| CATT |
|  |