**3GPP TSG-SA WG3 Meeting #100e draft\_S3-201736-r1**

**e-meeting, 17 – 28 August 2020**

**Source: Huawei, Hisilicon, China Unicom, CAICT, CATT**

**Title: New Study on User Consent for 3GPP services**

**Document for: Approval**

**Agenda Item: 5.16**

3GPP™ Work Item Description

For guidance, see [3GPP Working Procedures](http://www.3gpp.org/About/WP.htm), article 39; and [3GPP TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm).  
Comprehensive instructions can be found at <http://www.3gpp.org/Work-Items>

# Title: Study on User Consent for 3GPP services

## Acronym: FS\_UC3S

## Unique identifier:

## 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

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

### 2.2 Parent and child Work Items

|  |  |  |
| --- | --- | --- |
| Parent and child Work Items | | |
| Unique ID | Title | Nature of relationship |
|  |  |  |

### 2.3 Other related Work Items and dependencies

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

## Justification

3GPP has defined many features relevant to API invocation. For example, services for SBA are defined in clause 7 in 3GPP TS 23.501, NF service consumer may invoke an API provided by NF service provider to initiate specific communication procedure; CAPIF architecture is defined in 3GPP TS 23.222, API invoker may invoke an API provided by API provider (e.g. NEF, CAPIF) to enable 3GPP service to external application function.

Once the authentication and authorization between NF service consumer (e.g. NF)/API invokers (e.g. AF, AS) and API providers (e.g. NEF, CAPIF, NF) in clause 13 and clause 12 in 3GPP TS 33.501 are done, it is still not clear according to TS 33.501, whether it is allowed for an API invoker/consumer (e.g. 3rd party server, 3GPP NF) to invoke a 3GPP API published by NFs to process data relating to an identified or identifiable natural person without user consent.

Meanwhile, other working groups in 3GPP have identified additional issues such as ensuring that user consent is secured before providing the GPSI or any other sensitive information about the UE to an EAS as in the SA6 specifications. SA2 is also requesting SA3 to provide feedback on user consent requirements for data analytics and the current ongoing work in edge computing may require potential user consent.

SA3 has previously dealt with user consent on a per feature basis, for example in the case of MDT. Given the importance of compliance with user privacy consideration, SA3 should take a proactive approach to deal with user consent so that all 3GPP services that require such a user consent can be achieved securely and uniformly. Meanwhile other SDO (e.g. SA1, ISO, User-Managed Access (UMA) WG, etc.) has introduced some specifications (e.g. TR 22.904, ISO/IEC 29184) and works (e.g. Gran Management API, etc.) for user consent, which can be taken into consideration.

## 4 Objective

The objectives of this study are to identify and evaluate the requirements and solutions to support user consent for 3GPP services while compliant with user privacy consideration.

The detailed objectives are as follows:

* Analyse and investigate the concept of user consent in 3GPP, including in which situations user consent is required
* Analyse and identify general security principles and user consent attribute for requesting and receiving user consent data for processing.
* Investigate potential security threats and requirements for the authenticity, confidentiality and integrity of user consent when transmitting and processing within 3GPP network.
* Investigate potential security threats and requirements for protecting user consent data during collection, storage, transit, and use.
* Propose the potential security solutions addressing the security requirements from the above feature context analysis.

## 5 Expected Output and Time scale

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **New specifications** *{One line per specification. Create/delete lines as needed}* | | | | | |
| Proposed Spec no. or series | Type (see note 1) | Rapporteur(s) (see note 2) | For info  at TSG# | For approval at TSG# | Remarks |
| 33.xxx | Internal TR | *Rong Wu, Huawei Technologies,*  [*raina.wu@huawei.com*](mailto:%20raina.wu@huawei.com) | *TSG#90 (DEC 2020)* | *TSG#91(MAR*  *2021)* |  |

Note 1: Only TSs may contain normative provisions. Study Items shall create or impact only TRs.  
"Internal TR" is intended for 3GPP internal use only whereas "External TR" may be transposed by OPs.

Note 2: The first listed Rapporteur is the specification primary Rapporteur. Secondary Rapporteur(s) are possible for particular aspect(s) of the TS/TR. In this case, their responsibility has to be provided as "Remarks".

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

## 6 Work item Rapporteur(s)

*Rong Wu, Huawei Technologies,*  [*raina.wu@huawei.com*](mailto:%20raina.wu@huawei.com)

## 7 Work item leadership

SA3

## 8 Aspects that involve other WGs

SA2 may evaluate possible new procedure.

SA6 may evaluate possible new procedure.

## 9 Supporting Individual Members

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| --- |
| Supporting IM name |
| Huawei |
| Hisilicon |
| China Mobile |
| China Unicom |
| CAICT |
| CATT |
| Nokia |
| Nokia Shanghai Bell |
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