**3GPP TSG-SA3 Meeting#113 *S3-23xxxx***

**Chicago, USA, 6 - 1 November 2023** **(revision of xx-yyxxxx)**

**Source: China Telecom**

**Title: New SID on application login via IMS**

**Document for: Approval**

**Agenda Item: 6**

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 application login via IMS

Acronym: FS\_APP\_LOGIN \_IMS

Unique identifier:

{A number to be provided by MCC at the plenary}

Potential target Release: Rel-19

# 1 Impacts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Affects: | UICC apps | ME | AN | CN | Others (specify) |
| Yes |  | 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 | Study  |
|  | Normative – Stage 1 |
|  | Normative – Stage 2 |
|  | Normative – Stage 3 |
|  | Normative – Other\* |

**\* Other = e.g. testing**

## 2.2 Parent Work Item

For a brand-new topic, use “N/A” in the table below. Otherwise indicate the 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 |
|  |  | {optional free text}  |

**Dependency on non-3GPP (draft) specification:**

{This section is to be typically used to identify the IETF dependencies. Delete the header "Dependency on non-3GPP (draft) specification:" if no such dependency}

# 3 Justification

Numerous Applications currently use SMS based solutions to improve login experience for users. In this scenario, application servers typically require the user to supply passwords and/or use OTPs delivered over SMS to confirm the user’s identity before accepting the user’s login. However, these mechanisms can be insecure (SMS can be hijacked), non-efficient and error-prone (multiple manual interventions are needed).

In order to mitigate the issues discussed above and simultaneously improve user experience, it is proposed to consider alternate mechanisms that do not require user intervention and be compatible to existing phone number based identification mechanism implemented in most application servers.

# 4 Objective

The objectives of this study are to identify key issues, potential security and privacy requirements and solutions with respect to Rel-19 enhancement for application login via IMS. Specifically:

* Identify the security threats, requirements and feasible solutions for application login via IMS.

# 5 Expected Output and Time scale

***{If this WID covers both stage 2 and stage 3, clearly indicate the different completion dates.}***

|  |
| --- |
| 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 | 33.xyz | Study on application login via IMS | TSG#103 | TSG#104 | Weihan GaoChina Telecomgaowh@chinatelecom.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)

# 7 Work item leadership

SA3

# 8 Aspects that involve other WGs

N/A

# 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 Telecom |
| CATT |
| China Unicom |
| CableLabs |
| DT |
| Phillips |