**3GPP TSG-SA3 Meeting #106-e *S3-220363-r1***

e-meeting, 14 - 25 February 2022

**Source: Nokia, Nokia Shanghai Bell, CableLabs, Charter Communications,**

**Title: New SID on** **Security aspects for 5WWC Phase 2**

**Document for: Approval**

**Agenda Item: 4.18**

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 Security aspects for 5WWC Phase 2

# Document for: Approval

## Acronym: FS\_WWC-Ph2-Sec

## Unique identifier: *TBA*

## Potential target Release: Rel-18

# 1 Impacts

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

# 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) |
| FS\_5WWC\_Ph2 | SA2 | 940062 | Study on the support for 5WWC Phase 2 |

### 2.3 Other related Work Items and dependencies

|  |  |  |
| --- | --- | --- |
| Other related Work /Study Items (if any) | | |
| Unique ID | Title | Nature of relationship |
| 820014 | Wireless and Wireline Convergence for the 5G system architecture | SA2 normative work for supporting Trusted Non-3GPP access network and Wireline Access network |
| 900012 | Access Traffic Steering, Switch and Splitting support in the 5G system architecture | SA2 R17 normative work for support of Multi-access PDU session |

Dependency on non-3GPP (draft) specification: N/A

# 3 Justification

The support of wireline access has been specified in TS 23.501/502/503 and in TS 23.316 in Rel-16. Security requirements and procedures are specified in TS 33.501 Annex O. However, some scenarios have not been addressed or partially solved during Rel-16 study/normative work. To address those scenarios to better support Wireline access in 5G system and Trusted Non-3GPP Access network, SA2 has approved a SID on 5WWC phase 2 in Rel-18. Security aspects of SA2 5WWC SID need to be studied in SA3 in Rel-18.

# 4 Objective

The objectives of this study are to:

* Whether and how to identify, authenticate and authorize the non-3GPP devices behind the Residential Gateway (RG) connecting to the network.
* Whether and how to identify, authenticate and authorize the 3GPP devices (UE or N5CW devices) behind the Residential Gateway (RG) connecting to the network.

# 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 | 33.xxx | Study on WWC Phase2 security aspects | TSG#98 | TSG#99 | Saurabh Khare, Nokia, [saurabh.khare@nokia.com](mailto:saurabh.khare@nokia.com) |

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

# 6 Work item Rapporteur(s)

Saurabh Khare, Nokia, Saurabh.khare@nokia.com

# 7 Work item leadership

SA3

# 8 Aspects that involve other WGs

Potential interactions with SA2 for the architectural aspects.

# 9 Supporting Individual Members

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| --- |
| Supporting IM name |
| Nokia |
| Nokia Shanghai Bell |
| CableLabs |
| Charter Communications |
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