**3GPP TSG-CT WG1 Meeting #141-eC1-232377**

**E-Meeting, 17th - 21st April, 2023**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
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|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
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| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network | **X** |

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| ***Title:***  |  |
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| ***Source to WG:*** |  |
| ***Source to TSG:*** |  |
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| ***Work item code:*** |  |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** |  |  | ***Release:*** |  |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
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| ***Reason for change:*** | SA2 has agreed in CR3821 to 23.501 (see S2-2303635) clause 5.30.2.15 that that N5CW devices may access 5GC in an SNPN via a trusted WLAN access network that supports a TWIF function. A WLAN access network may advertise (e.g. with ANQP), not only the PLMNs with which "5G connectivity-without-NAS" is supported (as specified in clause 6.3.12a.1), but also the SNPNs with which "5G connectivity-without-NAS" is supported, as well as the related parameters and indications defined in clause 5.30.2.2 (i.e. human-readable network name(s), GIN(s), indication whether access using credentials from a Credentials Holder is supported, indication whether SNPN allows registration attempts from UEs that are not explicitly configured to select the SNPN):*5.30.2.15 Access to SNPN services for N5CW devices**Devices that do not support 5GC NAS signalling over WLAN access (referred to as "Non-5G-Capable over WLAN" devices, or N5CW devices for short), may access 5GC in an SNPN via a trusted WLAN access network that supports a TWIF function. To access SNPN services the N5CW device performs the following procedure:**- A WLAN access network may advertise (e.g. with ANQP), not only the PLMNs with which "5G connectivity-without-NAS" is supported (as specified in clause 6.3.12a.1), but also the SNPNs with which "5G connectivity-without-NAS" is supported, as well as the related parameters and indications defined in clause 5.30.2.2 (i.e. human-readable network name(s), GIN(s), indication whether access using credentials from a Credentials Holder is supported, indication whether SNPN allows registration attempts from UEs that are not explicitly configured to select the SNPN).**- The N5CW device initiates the access network selection procedure by sending an ANQP query to each discovered WLAN access network and constructs a list of available SNPNs with which "5G connectivity-without-NAS" is supported. This list contains the SNPNs with which "5G connectivity-without-NAS" is supported as advertised by all the discovered WLAN access networks.**- The N5CW device selects an SNPN that is included in the list of available SNPNs with which "5G connectivity-without-NAS" is supported following the procedure in clause 5.30.2.4.**- The N5CW device selects a WLAN access network (e.g. an SSID) that supports "5G connectivity-without-NAS" to the selected SNPN and initiates the "Initial Registration and PDU Session Establishment" procedure specified in clause 4.12b.2 of TS 23.502 [3]. If there are multiple WLAN access networks that support "5G connectivity-without-NAS" to the selected SNPN, then the N5CW device selects the highest priority WLAN access network from this list. To determine the priority of a WLAN access network, the N5CW device shall apply the WLANSP rules (if provided), and the procedure specified in clause 6.6.1.3 of TS 23.503 [45], "UE procedure for selecting a WLAN access based on WLANSP rules". If the N5CW device is not provided with WLANSP rules, the N5CW device determines the priority of a WLAN access network by using implementation means.**NOTE: How the N5CW device selects credentials to use for SNPN access is implementation specific.*Accordingly, this CR adds a new SNPN List with trusted 5G Connectivity without-NAS IE. |
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| ***Summary of change:*** | Add new SNPN List with trusted 5G Connectivity without-NAS IE. |
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| ***Consequences if not approved:*** | Stage 3 not aligned with stage 2. |
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| ***Clauses affected:*** | H.2.4.1, H.2.4.X (new) |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** | Note to MCC: If 24.302CR0748 and 24.302CR750 are both approved, please implement CR0748 first before CR 0750 |
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| ***This CR's revision history:*** |  |

\*\*\* First change \*\*\*

### H.2.4.1 Information Element Identity (IEI)

Indicates the information element identity. The following values for IEI are defined in this version of the specification:

00000000 PLMN List

00000001 PLMN List with S2a connectivity

00000010 PLMN List with trusted 5G connectivity

00000011 PLMN List with trusted 5G connectivity-without-NAS

00000100 PLMN List with AAA connectivity to 5GC

00000101

 To

00011111 Reserved

00100000 SNPN List with trusted 5G connectivity

00100010 SNPN List with trusted 5G connectivity-without-NAS

00100011

 To

11111111 Reserved

\*\*\* Next change \*\*\*

### H.2.4.X SNPN List with trusted 5G Connectivity-without-NAS IE

The SNPN List with trusted 5G Connectivity-without-NAS information element is used by the network to indicate the SNPNs for which the WLAN provides connectivity to a 5GCN, for devices without NAS capability, that can be selected from the WLAN. The format of the SNPN List with trusted 5G Connectivity-without-NAS information element is identical to the format of the SNPN List with trusted 5G Connectivity information element defined in clause H.2.4.7.

\*\*\* End change \*\*\*