**3GPP TSG-CT WG1 Meeting #135-eC1-223003**

**E-Meeting, 6th – 12th April 2022**

|  |
| --- |
| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **24.175** | **CR** | **0003** | **rev** | **1** | **Current version:** | **17.0.0** |  |
|  |
| *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 |  |

|  |
| --- |
|  |
| ***Title:***  | SNPN configuration for multi-device |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | eNPN |  | ***Date:*** | 2022-04-07 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-17 |
|  | *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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | It is required to configure the UE per SNPN. |
|  |  |
| ***Summary of change:*** | Extend the MO to incorporate SNPN. Modify figure and DDF accordingly. |
|  |  |
| ***Consequences if not approved:*** | Missing functionality |
|  |  |
| ***Clauses affected:*** | 2, 3.3, 4, 5.9, 5.10, 5.11, 5.x.1 (new), 5.x2 (new), 5.x3 (new), 5.x4 (new), 5.x5 (new), 5.x6 (new), 5.x7 (new), 5.x8 (new), 5.x9 (new), 5.x10 (new), 5.x11 (new), Annex A |
|  |  |
|  | **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 ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | Rev 1:-SNPN added to abbreviations list-SNPN\_identifier leaf added to Figure 4-1-Added Table headings and corrected table headings numbering-Corrected existing table numbering errors in 5.9, 5.10 and 5.11. |

**\*\*\*\*\*\*\***

\* \* \* First Change \* \* \* \*

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] OMA OMA-ERELD-DM-V1\_2-20070209-A: "Enabler Release Definition for OMA Device Management, Version 1.2".

[3] 3GPP TS 24.174: "Support of Multi-Device and Multi-Identity in IMS; Stage 3".

[4] OMA-TS-DM\_TND-V1\_3-20160524-A: "OMA Device Management Tree and Description".

[5] 3GPP TS 23.003: "Numbering, addressing and identification".

\* \* \* Next Change \* \* \* \*

## 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

MiD Multi-iDentity

MO Management Object

MuD Multi-Device

SNPN Stand-alone Non-Public Network

\* \* \* Next Change \* \* \* \*

# 4 Multi-Device and Multi-Identity management object

The MO for Multi-Device and Multi-Identity in IMS is used to manage settings of the UE for Multi-Device and Multi-Identity in IMS. Figure 4-1 gives an overview of the configuration parameters of this MO. The conventions used in this specification are as defined in OMA-TS-DM\_TND [4] with the following modifications:

- interior nodes are drawn as rectangles, not rectangles with rounded corners; and

- leaf nodes are plain text, not rectangles.

The MO for Multi-Device and Multi-Identity in IMS covers configuration parameters for a UE supporting Multi-Device and Multi-Identity in IMS specified in TS 24.174 [3].

The MO identifier is: urn:oma:mo:ext-3gpp-mudmid:1.0.



Figure 4-1: MO for Multi-Device and Multi-Identity in IMS

\* \* \* Next Change \* \* \* \*

## 5.9 /<X>/MultiIdentity/DelegatedIdentity/<X>/DelegatedId

Table 5.9.1

|  |
| --- |
| MultiIdentity/DelegatedIdentity/<X>/DelegatedId |
|  | Status | Occurrence | Format | Min. Access Types |  |
|  | Required | One | chr | Get, Replace |  |
|  | This leaf node contains a delegated identity that is allowed to use the native identity. |

This leaf node contains a delegated identity that is allowed to use the native identity.

- Values: N/A

## 5.10 /<X>/MultiDevice

Table 5.10.1

|  |
| --- |
| MultiDevice |
|  | Status | Occurrence | Format | Min. Access Types |  |
|  | Required | One | node | Get, Replace |  |
|  | This interior node contains the multi-device parameters. |

- Values: N/A

## 5.11 /<X>/MultiDevice/CallLogUri

Table 5.11.1

|  |
| --- |
| MultiDevice/CallLogUri |
|  | Status | Occurrence | Format | Min. Access Types |  |
|  | Required | ZeroOrOne | chr | Get, Replace |  |
|  | This leaf node contains a URI the UE can use to access the call log. |

- Values: N/A

\* \* \* Next Change \* \* \* \*

## 5.x1 /*<X>*/SNPN\_Configuration

Table 5.x1.1

|  |
| --- |
| SNPN\_Configuration |
|  | Status | Occurrence | Format | Min. Access Types |  |
|  | Optional | ZeroOrOne | node | Get, Replace |  |
|  | This interior node contains configuration parameters regarding a UE operating in SNPN access operation mode. |

- Values: N/A

## 5.x2 /*<X>*/SNPN\_Configuration/<X>

Table 5.x2.1

|  |
| --- |
| SNPN\_Configuration/<X> |
|  | Status | Occurrence | Format | Min. Access Types |  |
|  | Optional | OneOrMore | node | Get, Replace |  |
|  | This interior node contains per SNPN configurations. |

This interior node acts as a placeholder for a list of:

a) SNPN identity; and

b) configuration parameters.

NOTE: For each of the elements in the list, a) must be present and at least one parameter of b) needs to appear.

A configuration parameter in an /<X>/SNPN\_Configuration/<X> node other than the SNPN\_identifier, is applicable when the UE selects an entry of "list of subscriber data" with the SNPN identity of the subscribed SNPN which is the same as the SNPN identity in the SNPN\_identifier leaf.

- Values: N/A

## 5.x3 /*<X>*/SNPN\_Configuration/<X>/SNPN\_identifier

Table 5.x3.1

|  |
| --- |
| SNPN\_Configuration/<X>/SNPN\_identifier |
|  | Status | Occurrence | Format | Min. Access Types |  |
|  | Required | One | chr | Get, Replace |  |
|  | This leaf indicates the SNPN identity of the subscribed SNPN for which the list of configuration parameters are applicable. |

- Values: <PLMN><NID>

The PLMN and NID are in the format defined by 3GPP TS 23.003 [5], with each digit of the MCC and MNC of the PLMN and each digit of the assignment mode and NID value of the NID encoded as an ASCII character.

## 5.x4 /*<X>*/SNPN\_Configuration/<X>/MultiIdentity/SharedIdentity

Table 5.x4.1

|  |
| --- |
| SNPN\_Configuration/<X>/MultiIdentity/SharedIdentity |
|  | Status | Occurrence | Format | Min. Access Types |  |
|  | Required | One | node | Get, Replace |  |
|  | This interior node contains the parameters of shared identities. |

- Values: N/A

## 5.x5 /*<X>*/SNPN\_Configuration/<X>/MultiIdentity/SharedIdentity/<X>

Table 5.x5.1

|  |
| --- |
| SNPN\_Configuration/<X>/MultiIdentity/SharedIdentity/<X> |
|  | Status | Occurrence | Format | Min. Access Types |  |
|  | Required | ZeroOrMore | node | Get, Replace |  |
|  | This interior node contains the settings of shared identities. |

- Values: N/A

## 5.x6 /*<X>*/SNPN\_Configuration/<X>/MultiIdentity/SharedIdentity/<X>/SharedId

Table 5.x6.1

|  |
| --- |
| SNPN\_Configuration/<X>/MultiIdentity/SharedIdentity/<X>/SharedId |
|  | Status | Occurrence | Format | Min. Access Types |  |
|  | Required | One | chr | Get, Replace |  |
|  | This leaf node contains a shared identity the UE can use. |

- Values: N/A

## 5.x7 /*<X>*/SNPN\_Configuration/<X>/MultiIdentity/DelegatedIdentity

Table 5.x7.1

|  |
| --- |
| SNPN\_Configuration/<X>/MultiIdentity/DelegatedIdentity |
|  | Status | Occurrence | Format | Min. Access Types |  |
|  | Required | One | node | Get, Replace |  |
|  | This interior node contains the multi-device parameters of delegated identities. |

- Values: N/A

## 5.x8 /*<X>*/SNPN\_Configuration/<X>/MultiIdentity/DelegatedIdentity/<X>

Table 5.x8.1

|  |
| --- |
| SNPN\_Configuration/<X>/MultiIdentity/DelegatedIdentity/<X> |
|  | Status | Occurrence | Format | Min. Access Types |  |
|  | Required | ZeroOrMore | node | Get, Replace |  |
|  | This interior node contains the settings of delegated identities. |

- Values: N/A

## 5.x9 /*<X>*/SNPN\_Configuration/<X>/MultiIdentity/DelegatedIdentity/<X>/DelegatedId

Table 5.x9.1

|  |
| --- |
| SNPN\_Configuration/<X>/MultiIdentity/DelegatedIdentity/<X>/DelegatedId |
|  | Status | Occurrence | Format | Min. Access Types |  |
|  | Required | One | chr | Get, Replace |  |
|  | This leaf node contains a delegated identity that is allowed to use the native identity. |

This leaf node contains a delegated identity that is allowed to use the native identity.

- Values: N/A

## 5.x10 /*<X>*/SNPN\_Configuration/<X>/MultiDevice

Table 5.x10.1

|  |
| --- |
| SNPN\_Configuration/<X>/MultiDevice |
|  | Status | Occurrence | Format | Min. Access Types |  |
|  | Required | One | node | Get, Replace |  |
|  | This interior node contains the multi-device parameters. |

- Values: N/A

## 5.x11 /*<X>*/SNPN\_Configuration/<X>/MultiDevice/CallLogUri

Table 5.x11.1

|  |
| --- |
| SNPN\_Configuration/<X>/MultiDevice/CallLogUri |
|  | Status | Occurrence | Format | Min. Access Types |  |
|  | Required | ZeroOrOne | chr | Get, Replace |  |
|  | This leaf node contains a URI the UE can use to access the call log. |

- Values: N/A

\* \* \* Next Change \* \* \* \*

Annex A (informative) DDF of MO for Multi-Device and Multi-Identity in IMS

This DDF is the standardized minimal set. A vendor can define its own DDF for the complete device. This DDF can include more features than this minimal standardized version.

<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE MgmtTree PUBLIC "-//OMA//DTD-DM-DDF 1.2//EN"

 "http://www.openmobilealliance.org/tech/DTD/DM\_DDF-V1\_2.dtd">

<MgmtTree>

 <VerDTD>1.2</VerDTD>

 <Man>--The device manufacturer--</Man>

 <Mod>--The device model--</Mod>

 <Node>

 <NodeName/>

 <DFProperties>

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 <Replace/>

 </AccessType>

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 <node/>

 </DFFormat>

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 <DFTitle>This leaf node contains a shared identity the UE can use</DFTitle>

 <DFType>

 <MIME>text/plain</MIME>

 </DFType>

 </DFProperties>

 </Node>

 </Node>

 </Node>

 <Node>

 <NodeName>DelegatedIdentity</NodeName>

 <DFProperties>

 <AccessType>

 <Get/>

 <Replace/>

 </AccessType>

 <DFFormat>

 <node/>

 </DFFormat>

 <Occurrence>

 <One/>

 </Occurrence>

 <Scope>

 <Permanent/>

 </Scope>

 <DFTitle>Interior node containing parameters of delegated identities</DFTitle>

 <DFType>

 <DDFName/>

 </DFType>

 </DFProperties>

 <Node>

 <NodeName/>

 <DFProperties>

 <AccessType>

 <Get/>

 <Replace/>

 </AccessType>

 <DFFormat>

 <node/>

 </DFFormat>

 <Occurrence>

 <ZeroOrMore/>

 </Occurrence>

 <Scope>

 <Dynamic/>

 </Scope>

 <DFTitle>This interior node contains the settings of delegated identities</DFTitle>

 <DFType>

 <DDFName/>

 </DFType>

 </DFProperties>

 <Node>

 <NodeName>DelegatedId</NodeName>

 <DFProperties>

 <AccessType>

 <Get/>

 <Replace/>

 </AccessType>

 <DFFormat>

 <chr/>

 </DFFormat>

 <Occurrence>

 <One/>

 </Occurrence>

 <Scope>

 <Dynamic/>

 </Scope>

 <DFTitle>This leaf node contains the delegated identity allowed to use the native identity</DFTitle>

 <DFType>

 <MIME>text/plain</MIME>

 </DFType>

 </DFProperties>

 </Node>

 </Node>

 </Node>

 </Node>

 <Node>

 <NodeName>MultiDevice</NodeName>

 <DFProperties>

 <AccessType>

 <Get/>

 <Replace/>

 </AccessType>

 <DFFormat>

 <node/>

 </DFFormat>

 <Occurrence>

 <One/>

 </Occurrence>

 <Scope>

 <Permanent/>

 </Scope>

 <DFTitle>Interior node containing multi-device parameters</DFTitle>

 <DFType>

 <DDFName/>

 </DFType>

 </DFProperties>

 <Node>

 <NodeName>CallLogUri</NodeName>

 <DFProperties>

 <AccessType>

 <Get/>

 <Replace/>

 </AccessType>

 <DFFormat>

 <chr/>

 </DFFormat>

 <Occurrence>

 <ZeroOrOne/>

 </Occurrence>

 <Scope>

 <Dynamic/>

 </Scope>

 <DFTitle>This leaf node contains a URI the UE can use to access the call log</DFTitle>

 <DFType>

 <MIME>text/plain</MIME>

 </DFType>

 </DFProperties>

 </Node>

 </Node>

 </Node>

 </Node>

 </Node>

</MgmtTree>

\* \* \* End of Changes \* \* \* \*