**3GPP TSG-CT WG1 Meeting #135-eC1-223005**

**E-Meeting, 6th – 12th April 2022**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.417** | **CR** | **0002** | **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 |  | Radio Access Network |  | Core Network | **X** |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | SNPN configuration for OIP/OIR | | | | | | | | | |
|  |  | | | | | | | | | |
| ***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 can be 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 figures and DDF accordingly. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Missing functionality | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

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

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

[3] 3GPP TS 24.607: "Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification"

[4] 3GPP TS 23.003: "Numbering, addressing and identification".

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

## 3.2 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].

CN Core Network

DDF Device Description Framework

DM Device Management

IM IP Multimedia

ME Mobile Equipment

MO Management Object

OMA Open Mobile Alliance

OIP Originating Identification Presentation

OIR Originating Identification Restriction

SNPN Stand-alone Non-Public Network

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

## 4.1 General

The OIP-OIR Management Object (MO) is used to configure the UE behaviour for the settings related to Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) supplementary services.

The MO Identifier (MOID) is: urn:oma:mo:ext-3gpp-oipoir:1.0.

Protocol compatibility: This MO is compatible with OMA DM 1.2.The following nodes and leaf objects are possible under the Name node as described in figure 4-1:



Figure 4-1: The OIP-OIR Services MO

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

This interior node contains configuration parameters regarding a UE operating in SNPN access operation mode.

- Occurrence: ZeroOrOne

- Format: node

- Access Types: Get, Replace

- Values: N/A

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

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.

- Occurrence: OneOrMore

- Format: node

- Access Types: Get, Replace

- Values: N/A

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

This leaf indicates the SNPN identity of the subscribed SNPN for which the list of configuration parameters are applicable.

- Occurrence: One

- Format: chr

- Access Types: Get, Replace

- Values: <PLMN><NID>

The PLMN and NID are in the format defined by 3GPP TS 23.003 [4], 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>*/FromPreferred

The FromPreferred leaf indicates operator's originating party identity determination policy.

- Occurrence: One

- Format: bool

- Access Types: Get, Replace

- Values: 0, 1

0 – Indicates that the From header field is not used for determination of the originating party identity in OIP service.

1 – Indicates that the identity provided within the From header field is used for determination of the originating party identity in OIP service, regardless the presence or absence of the P-Asserted-Identity header field.

The default value is '0'.

Use of the FromPreferred leaf is specified in 3GPP TS 24.607 [3].

Annex A (informative):  
Management object DDF

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>

<Node>

<NodeName>OIP-OIR</NodeName>

<DFProperties>

<AccessType>

<Get/>

<Replace/>

</AccessType>

<Description>OIP-OIR Services settings</Description>

<DFFormat>

<node/>

</DFFormat>

<Occurrence>

<OneOrMore/>

</Occurrence>

<DFTitle>The OIP-OIR Services Management Object.</DFTitle>

<DFType>

<DDFName>urn:oma:mo:ext-3gpp-oipoir:1.0</DDFName>

</DFType>

</DFProperties>

<Node>

<NodeName>Name</NodeName>

<DFProperties>

<AccessType>

<Get/>

<Replace/>

</AccessType>

<DFFormat>

<chr/>

</DFFormat>

<Occurrence>

<ZeroOrOne/>

</Occurrence>

<DFTitle>User displayable name for the node.</DFTitle>

<DFType>

<MIME>text/plain</MIME>

</DFType>

</DFProperties>

</Node>

<Node>

<NodeName>FromPreferred</NodeName>

<DFProperties>

<AccessType>

<Get/>

<Replace/>

</AccessType>

<DFFormat>

<bool/>

</DFFormat>

<Occurrence>

<One/>

</Occurrence>

<DFTitle>This leaf specifies a preference of the operator to enable the presentation of the identity in the From header.</DFTitle>

<DFType>

<MIME>text/plain</MIME>

</DFType>

</DFProperties>

</Node>

<Node>

<NodeName>SNPN\_Configuration</NodeName>

<DFProperties>

<AccessType>

<Get/>

<Replace/>

</AccessType>

<DFFormat>

<node/>

</DFFormat>

<Occurrence>

<ZeroOrOne/>

</Occurrence>

<Scope>

<Permanent/>

</Scope>

<DFTitle>SNPN Configuration.</DFTitle>

<DFType>

<MIME>text/plain</MIME>

</DFType>

</DFProperties>

<Node>

<NodeName/>

<DFProperties>

<AccessType>

<Get/>

</AccessType>

<DFFormat>

<node/>

</DFFormat>

<Occurrence>

<OneOrMore/>

</Occurrence>

<Scope>

<Dynamic/>

</Scope>

<DFTitle>SNPN configuration parameters.</DFTitle>

<DFType>

<MIME>text/plain</MIME>

</DFType>

</DFProperties>

<Node>

<NodeName>SNPN\_identifier</NodeName>

<DFProperties>

<AccessType>

<Get/>

<Replace/>

</AccessType>

<DFFormat>

<chr/>

</DFFormat>

<Occurrence>

<One/>

</Occurrence>

<Scope>

<Permanent/>

</Scope>

<DFTitle>Identifier of the SNPN.</DFTitle>

<DFType>

<MIME>text/plain</MIME>

</DFType>

</DFProperties>

</Node>

<Node>

<NodeName>FromPreferred</NodeName>

<DFProperties>

<AccessType>

<Get/>

<Replace/>

</AccessType>

<DFFormat>

<bool/>

</DFFormat>

<Occurrence>

<One/>

</Occurrence>

<DFTitle>This leaf specifies a preference of the operator to enable the presentation of the identity in the From header.</DFTitle>

<DFType>

<MIME>text/plain</MIME>

</DFType>

</DFProperties>

</Node>

</Node>

<Node>

<NodeName>Ext</NodeName>

<!-- The Extension node starts here. -->

<DFProperties>

<AccessType>

<Get/>

</AccessType>

<DFFormat>

<node/>

</DFFormat>

<Occurrence>

<ZeroOrOne/>

</Occurrence>

<DFTitle>A collection of all Extension objects.</DFTitle>

<DFType>

<DDFName/>

</DFType>

</DFProperties>

</Node>

</Node>

</MgmtTree>

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