

# ETSI TS 124 417 V17.1.0 (2022-07)



**LTE;  
5G;  
Management Object (MO) for Originating Identification  
Presentation (OIP) and Originating Identification Restriction  
(OIR) using IP Multimedia (IM) Core Network (CN) subsystem  
(3GPP TS 24.417 version 17.1.0 Release 17)**



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# Foreword

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- z the third digit is incremented when editorial only changes have been incorporated in the document.

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# 1 Scope

The present document defines a Management Object (MO) for Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR). The management object is compatible with OMA Device Management protocol specifications, version 1.2 and upwards, and is defined using the OMA DM Device Description Framework as described in the Enabler Release Definition OMA-ERELD\_DM-V1\_2 [2].

The OIP/OIR MO consists of relevant parameters that can be managed for the UE configuration related to the Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) service defined in 3GPP TS 24.607 [3].

---

# 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".

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# 3 Definitions, symbols and abbreviations

## 3.1 Definitions

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

## 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          |

## 4 OIP and OIR management object

### 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:

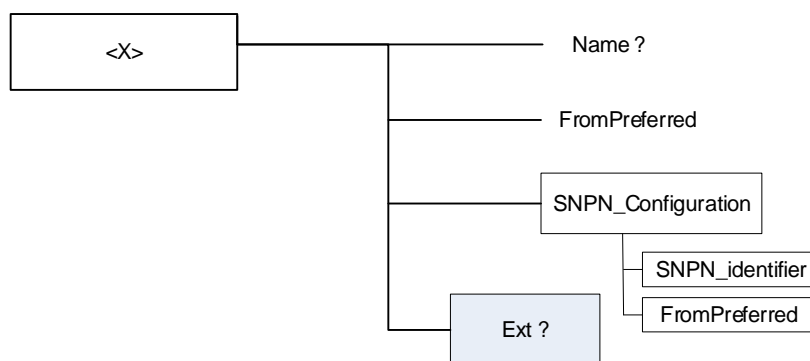


Figure 4-1: The OIP-OIR Services MO

## 5 Management object parameters

### 5.1 General

This clause describes the parameters for the Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) MO.

### 5.2 Node: /<X>

This interior node acts as a placeholder for the OIP and OIR services MO.

For the OIP-OIR services configuration MO, the namespace specific string is: "urn:oma:mo:ext-3gpp-oipoir:1.0"

- Occurrence: OneOrMore
- Format: node
- Access Types: Get, Replace
- Values: N/A

Support for a UE is defined by the UE role as specified in 3GPP TS 24.607 [3].

NOTE: One node is normally used.

### 5.3 /<X>/Name

The Name leaf is a name for the OIP and OIR services settings.

- Occurrence: ZeroOrOne
- Format: chr
- Access Types: Get, Replace
- Values: <User displayable name>

### 5.4 /<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].

### 5.5 /<x>/Ext/

The Ext is an interior node for where the vendor specific information about the OIP and OIR services UE configuration MO is being placed. Usually the vendor extension is identified by vendor specific name under the ext node and contains the vendor meaning application vendor, device vendor etc. The tree structure under the vendor identified is not defined and can therefore include one or more un-standardized sub-trees.

- Occurrence: ZeroOrOne
- Format: node
- Access Types: Get
- Values: N/A

### 5.6 /<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



## 5.7 /<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

## 5.8 /<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.

## 5.9 /<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>
  <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>
```

## Annex B (informative): Change history

| Change history |         |                        |      |     |     |  |             |
|----------------|---------|------------------------|------|-----|-----|--|-------------|
| Date           | Meeting | TDoc                   | CR   | Rev | Cat | Subject/Comment  | New version |
| 2016-05        | CT1#98  | C1-162939              |      |     |     | Initial proposal   | 0.0.0       |
| 2016-06        | CT1#98  | C1-162939<br>C1-162511 |      |     |     | Included skeleton from C1-162939 and scope from C1-162511  | 0.1.0       |
| 2016-07        | CT1#99  | C1-163947              |      |     |     | description of the MO parameters and the DDF schema  | 0.2.0       |
| 2016-11        |         |                        |      |     |     | Editorial changes  | 0.2.1       |
| 2016-11        | CT-74   | CP-160706              |      |     |     | Version 1.0.0 created for presentation for information to CT plenary                                       | 1.0.0       |
| 2017-02        | CT1#102 | C1-170616<br>C1-171066 |      |     |     | Incorporating correction to DDF and Access type<br>Removal of Editor's Note for MOID registration to OMNA. | 1.1.0       |
| 2017-02        | CT-75   | CP-170160              |      |     |     | Version 2.0.0 created for presentation for approval to CT plenary  | 2.0.0       |
| 2017-03        | CT-75   |                        |      |     |     | Version 14.0.0 created after approval at CT plenary  | 14.0.0      |
| 2018-06        | SA-80   | -                      | -    | -   | -   | Update to Rel-15 version (MCC)   | 15.0.0      |
| 2018-12        | CT-82   | CP-183077              | 0001 |     | F   | Addition of the object identifier in the DDF of the 3GPP Management Object                                 | 16.0.0      |
| 2022-04        | -       | -                      | -    | -   | -   | Update to Rel-17 version (MCC)   | 17.0.0      |
| 2022-06        | CT#96   | CP-221249              | 0002 | 1   | B   | SNPN configuration for OIP/OIR   | 17.1.0      |

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# History

| <b>Document history</b> |            |             |
|-------------------------|------------|-------------|
| V17.0.0                 | April 2022 | Publication |
| V17.1.0                 | July 2022  | Publication |
|                         |            |             |
|                         |            |             |
|                         |            |             |