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Technical Specification

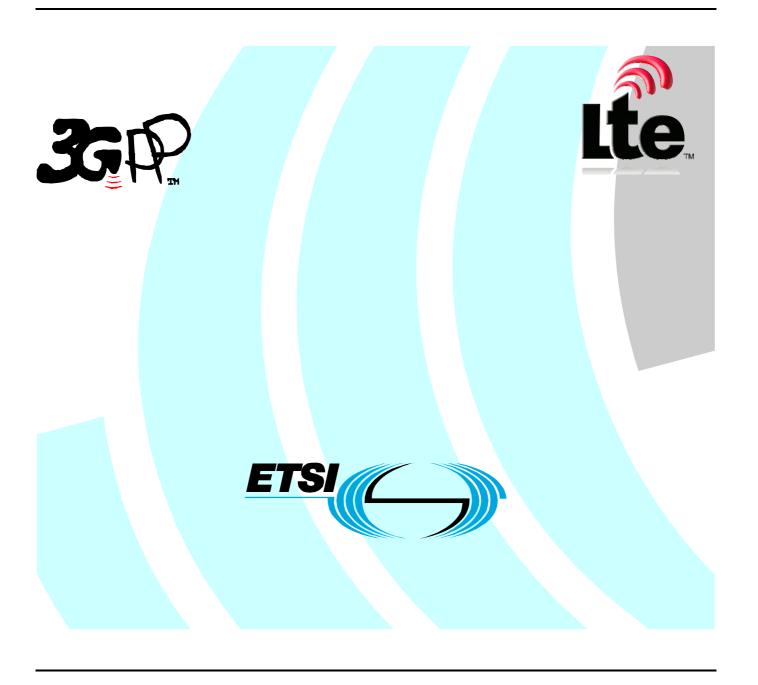
Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS);

LTE;

**Selective Disabling of UE Capabilities (SDoUE)** 

**Management Object (MO)** 

(3GPP TS 24.305 version 8.0.0 Release 8)



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#### ETSI

650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

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## Contents

Intell	lectual Property Rights	2
Forev	word	2
	word	
1	Scope	
2	References	
3	Definitions, symbols and abbreviations	
3.1	Definitions	
3.2	Abbreviations	6
4	Selective Disabling of 3GPP UE Capabilities Management Object	<i>6</i>
5	Management Object parameters	7
5.1	General	
5.2	Node: <x></x>	
5.3	/ <x>/Name</x>	
5.4	/ <x>/CS_Calls</x>	
5.5	/ <x>/ CS_EmergencyCalls</x>	
5.5A	/ <x>/CS_EmergencyCalls/<x></x></x>	
5.5B	/ <x>/CS_EmergencyCalls/<x>/Country</x></x>	
5.5C	/ <x>/CS_EmergencyCalls/<x>/Country/Network</x></x>	
5.6	/ <x>/SupplementaryServices</x>	
5.7	/ <x>/CS SMS</x>	
5.8	/ <x>/PS_SMS</x>	10
5.9	/ <x>/CS_LCS</x>	11
5.10	/< <i>X</i> >/PS_LCS	11
5.11	/ <x>/GPRS_SM_PDP</x>	
5.12	/ <x>/GPRS_SM_MBMS</x>	12
5.13	/< <i>X</i> >/IMS	12
5.14	/< <i>X</i> >/Text	
5.15	/ <x>/CustomerCareNumbers/</x>	13
5.16	/ <x>/CustomerCareNumbers/<x></x></x>	
5.17	/ <x>/CustomerCareNumbers/<x>/CustomerCareNumber</x></x>	
5.17A		
5.18	/ <x>/ IMS_EmergencyCalls</x>	
5.19	/ <x>/IMS_EmergencyCalls/<x></x></x>	
5.20	/ <x>/IMS_EmergencyCalls/<x>/Country</x></x>	
5.21	/ <x>/IMS_EmergencyCalls/<x>/Country/Network</x></x>	
5.22	/< <i>X</i> >/Ext	16
Anne	ex A (informative): Management Object DDF	17
Anne	ex B (informative): Change history	25
Lieto	•	?e
		16

## Foreword

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## 1 Scope

The present document specifies a mobile device Selective Disabling of 3GPP UE Capabilities (SDoUE) Management Object (MO) and the rules and corresponding behaviour of the UE with regard to the selective disabling of 3GPP UE capabilities, for example, when services or functions are disabled/enabled.

The SDoUE MO is compatible with the OMA Device Management (DM) protocol specifications, version 1.2 and upwards, and is defined using the OMA DM Device Description Framework (DDF) as described in the Enabler Release Definition OMA-ERELD-DM-V1\_2 [8].

The SDoUE MO consists of the relevant parameters that can be managed for selective disabling of 3GPP UE capabilities.

The SDoUE MO defines a repository of data into the ME.

The service requirements for selective disabling of 3GPP UE capabilities are defined in 3GPP TS 22.011 [2].

## 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]	3GPP TS 22.011: "Service accessibility".
[3]	3GPP TS 24.008: "Mobile radio interface Layer 3 specification; Core network protocols; Stage 3".
[4]	3GPP TS 24.010: "Mobile radio interface layer 3; Supplementary services specification; General aspects".
[5]	3GPP TS 24.011: "Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface".
[6]	3GPP TS 24.030: "Location Services (LCS); Supplementary service operations; Stage 3".
[7]	3GPP TS 24.229: "IP Multimedia Call Control Protocol based on SIP and SDP; Stage 3".
[8]	OMA-ERELD-DM-V1_2: "Enabler Release Definition for OMA Device Management".
[9]	ITU-T Recommendation E.164: "The international public telecommunication numbering plan".
[10]	ITU-T Recommendation E.212: "The international identification plan for mobile terminals and mobile users".

## 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] apply.

#### 3.2 Abbreviations

ACL Access Control List CS Circuit Switched

DDF Device Description Framework

DM Device Management

IMS IP Multimedia core network Subsystem MBMS Multimedia Broadcast/Multicast Service

MCC Mobile Country Code
MNC Mobile Network Code
ME Mobile Equipment
MO Management Object
OMA Open Mobile Alliance
PDP Packet Data Protocol
PS Packet Switched

SDoUE Selective Disabling of 3GPP UE Capabilities

UE User Equipment

## 4 Selective Disabling of 3GPP UE Capabilities Management Object

The Selective Disabling of 3GPP UE Capabilities (SDoUE) Management Object (MO) is used to manage settings of the UE for remotely disabling selected UE capabilities.

The Management Object Identifier is: urn:oma:mo:ext-3gpp-sdoue:1.0.

The OMA DM Access Control List (ACL) property mechanism as standardized (see Enabler Release Definition OMA-ERELD-DM-V1\_2 [8]) may be used to grant or deny access rights to OMA DM servers in order to modify nodes and leaf objects of the SDoUE MO.

The management following nodes and leaf objects are possible under the SDoUE node:

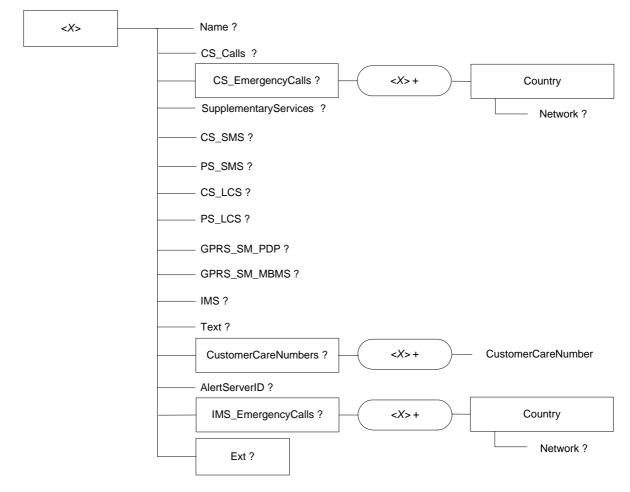


Figure 1: The SDoUE Management Object

## 5 Management Object parameters

#### 5.1 General

This clause describes the parameters for the SDoUE Management Object (MO).

#### 5.2 Node: <X>

This interior node acts as a placeholder for zero or one accounts for a fixed node.

- Occurrence: ZeroOrOne

- Format: node

- Access Types: Get

- Values: N/A

## 5.3 /<*X*>/Name

The Name leaf is a name for the SDoUE MO settings.

- Occurrence: ZeroOrOne

Format: chr

- Access Types: Get

- Values: <User displayable name>

#### 5.4 /<X>/CS Calls

The CS\_Calls leaf indicates an operator"s preference to enable or disable mobile-originated Call Control (CC) procedures except for emergency calls.

The CC procedures are specified in 3GPP TS 24.008 [3].

- Occurrence: ZeroOrOne

- Format: bool

- Access Types: Get

Values: 0, 1

0 – Indicates that mobile-originated CS calls are enabled.

1 – Indicates that mobile-originated CS calls are disabled.

When the CS\_Calls leaf value is set to "1", the UE shall initiate the signalling procedure for release of all calls except for emergency calls (see 3GPP TS 24.008 [3]). Furthermore, the UE shall not use mobile-originated call control procedures except for emergency calls and customer care service number(s) until the CS\_Calls leaf value is set to "0".

NOTE: Customer care service number(s) is(are) provided by the CustomerCareNumbers leaf (see sub-clauses 5.15, 5.16 and 5.17).

## 5.5 /<X>/ CS\_EmergencyCalls

The CS\_EmergencyCalls interior node indicates an operator"s preference to enable or disable emergency call control procedures.

NOTE 1: Disabling of emergency call control procedures is subject to regional regulatory requirements. Therefore, emergency call control procedures cannot be disabled in regions where support of them is required (see 3GPP TS 22.011 [2]).

The emergency call control procedures are specified in 3GPP TS 24.008 [3].

- Occurrence: ZeroOrOne

Format: bool

- Access Types: Get

- Values: 0, 1

0 – Indicates that CS emergency calls are enabled.

1 – Indicates that CS emergency calls are disabled.

When the CS\_EmergencyCalls node value is set to "1" and the UE detects being under coverage of a PLMN (identified by Mobile Country Code (MCC) and Mobile Network Code (MNC)) as indicated by any of the stored Country and Network pairs of nodes (see sub-clauses 5.5A, 5.5B and 5.5C), then the UE shall initiate the signalling procedure for release of all emergency calls that use call control procedures. Furthermore, the UE shall not use call control procedures to establish emergency calls until the CS\_EmergencyCalls node value is set to "0" or the UE detects a change of Mobile Country Code (MCC) and Mobile Network Code (MNC) that does not match any of the stored Country and Network pairs of nodes.

NOTE 2: As described by the definition and structure of the SDoUE MO the Country and Network nodes, if exist, constitute a pair of nodes. However, it is possible to indicate only a country/region by means of only setting the value of the Country node.

## 5.5A /<X>/CS\_EmergencyCalls/<X>

This run-time node acts as a placeholder for one or more Country nodes. Furthermore, this node provides a means for the operator to indicate where emergency call control procedures are disabled (i.e. The CS\_EmergencyCalls value is set to "1").

- Occurrence: ZeroOrMore

Format: node

Access Types: Get

Values: N/A

## 5.5B /<X>/CS\_EmergencyCalls/<X>/Country

The Country interior node represents one Mobile Country Code (MCC). This node provides a means for including information that can be used to indicate in which MCC the emergency call control procedures are disabled (i.e. The CS\_EmergencyCalls value is set to "1").

The Country node value shall be a Mobile Country Code (MCC) as specified by ITU-T E.212 [10].

- Occurrence: One

- Format: chr

Access Types: Get

Values: <Mobile Country Code>

The UE shall only use the information stored in the Country node when emergency call control procedures are disabled (i.e. The CS\_EmergencyCalls value is set to "1").

## 5.5C /<X>/CS\_EmergencyCalls/<X>/Country/Network

The Network leaf represents one Mobile Network Code (MNC). This leaf provides a means, together with the Country leaf, for including information that can be used to indicate in which MCC and MNC the emergency calls procedures are disabled.

The Network leaf value shall be a Mobile Network Code (MNC) as specified by ITU-T E.212 [10].

Occurrence: ZeroOrOne

- Format: chr

- Access Types: Get

- Values: <Mobile Network Code>

The UE shall only use the information stored in the Network leaf when emergency call control procedures are disabled (i.e. The CS\_EmergencyCalls value is set to "1"). Furthermore, the UE shall interpret the information stored in the Network leaf, if exists, in conjunction with the corresponding Country node.

## 5.6 /<X>/SupplementaryServices

The SupplementaryServices leaf indicates an operator"s preference to enable or disable mobile-originated Supplementary services operations.

The Supplementary service operations are specified in 3GPP TS 24.010 [4].

NOTE: The functionality indicated by the SupplementaryServices leaf does not include the Location Service (LCS) supplementary service operations.

- Occurrence: ZeroOrOne

Format: bool

Access Types: Get

- Values: 0, 1

0 – Indicates that mobile-originated Supplementary service operations are enabled.

1 – Indicates that mobile-originated Supplementary service operations are disabled.

When the SupplementaryServices leaf value is set to "1", the UE shall initiate the signalling procedure for release of all ongoing supplementary service operations (transactions). Furthermore, the UE shall not invoke mobile-originated supplementary service operation procedures until the SupplementaryServices leaf value is set to "0".

### 5.7 /<*X*>/CS SMS

The CS\_SMS leaf indicates an operator"s preference to enable or disable mobile-originated Short Message Service (SMS) via CS.

The SMS procedures are specified in 3GPP TS 24.011 [5].

Occurrence: ZeroOrOne

Format: bool

Access Types: Get

- Values: 0, 1

0 - Indicates that mobile-originated SMS via CS are enabled.

1 – Indicates that mobile-originated SMS via CS are disabled.

If the CS\_SMS leaf value is "1", the UE shall not use the CS domain for mobile-originated SMS transfer until the CS\_SMS leaf value is set to "0". The UE may use the PS domain instead of the CS domain for mobile-originated SMS transfer when the CS\_SMS leaf value is "1".

## 5.8 /<*X*>/PS\_SMS

The PS\_SMS leaf indicates an operator"s preference to enable or disable mobile-originated Short Message Service (SMS) via PS.

The SMS procedures are specified in 3GPP TS 24.011 [5].

- Occurrence: ZeroOrOne

Format: bool

- Access Types: Get

- Values: 0, 1

0 – Indicates that mobile-originated SMS via PS are enabled.

1 – Indicates that mobile-originated SMS via PS are disabled.

If the PS\_SMS leaf value is "1", the UE shall not use the PS domain for mobile-originated SMS transfer until the PS\_SMS leaf value is set to "0". The UE may use the CS domain instead of the PS domain for mobile-originated SMS transfer when the PS\_SMS leaf value is "1".

#### 5.9 /<*X*>/CS LCS

The CS\_LCS leaf indicates an operator"s preference to enable or disable mobile-originated Location Service (LCS) operations via CS.

The LCS Supplementary service operations are specified in 3GPP TS 24.030 [6].

Occurrence: ZeroOrOne

- Format: bool

Access Types: Get

- Values: 0, 1

0 – Indicates that mobile-originated LCS via CS enabled.

1 – Indicates that mobile-originated LCS via CS disabled.

If the CS\_LCS leaf value is "1", the UE shall not use the CS domain for mobile-originated LCS service operations until the CS\_LCS leaf value is set to "0". The UE may use the PS domain instead of the CS domain for mobile-originated LCS service operations when the CS\_LCS leaf value is "1".

### 5.10 /<*X*>/PS\_LCS

The PS\_LCS leaf indicates an operator"s preference to enable or disable mobile-originated Location Service (LCS) operations via PS.

The LCS Supplementary service operations are specified in 3GPP TS 24.030 [6].

- Occurrence: ZeroOrOne

- Format: bool

- Access Types: Get

Values: 0, 1

0 – Indicates that mobile-originated LCS via PS are enabled.

1 - Indicates that mobile-originated LCS via PS are disabled.

If the PS\_LCS leaf value is "1", the UE shall not use the PS domain for mobile-originated LCS service operations until the PS\_LCS leaf value is set to "0". The UE may use the CS domain instead of the PS domain for mobile-originated LCS service operations when the PS\_LCS leaf value is "1".

## $5.11 /<X>/GPRS_SM_PDP$

The GPRS\_SM\_PDP leaf indicates an operator"s preference to enable or disable mobile-originated GPRS Session Management (SM) procedures for PDP contexts, i.e. PDP context activation, deactivation and modification.

The GPRS SM procedures for PDP contexts are specified in 3GPP TS 24.008 [3].

- Occurrence: ZeroOrOne

- Format: bool

Access Types: Get

- Values: 0, 1
  - 0 Indicates that mobile-originated GPRS SM procedures for PDP contexts are enabled.
  - 1 Indicates that mobile-originated GPRS SM procedures for PDP contexts are disabled.

When the GPRS\_SM\_PDP leaf value is set to "1", the UE shall initiate the signalling procedure for PDP context deactivation of all PDP contexts (see 3GPP TS 24.008 [3]). Additionally, the UE shall not use mobile-originated GPRS SM procedures for PDP contexts until the GPRS\_SM\_PDP leaf value is set to "0". The UE is however allowed to use mobile-originated GPRS SM procedure for PDP context activation in the following cases:

- upon receipt of an OMA DM notification message indicating that the UE shall initiate an OMA DM session to the OMA DM server that either had set the disable value of the GPRS\_SM\_PDP leaf or is the one stored in the AlertServerID leaf;
- when the mobile-originated PDP context activation procedure is necessary in order to either establish an emergency call over IMS (if the IMS\_EmergencyCalls value is set to "0") or send an OMA DM generic alert message according to the sub-clause 5.17A.

#### 5.12 /<X>/GPRS SM MBMS

The GPRS\_SM\_MBMS leaf indicates an operator"s preference to enable or disable GPRS Session Management (SM) procedures for MBMS contexts, i.e. MBMS context activation and deactivation.

The GPRS SM procedures for MBMS contexts are specified in 3GPP TS 24.008 [3].

- Occurrence: ZeroOrOne
- Format: bool
- Access Types: Get
- Values: 0, 1
  - 0 Indicates that GPRS SM procedures for MBMS contexts are enabled.
  - 1 Indicates that GPRS SM procedures for MBMS contexts are disabled.

When the GPRS\_SM\_MBMS leaf value is set to "1", the UE shall locally release all resources allocated for MBMS contexts and it shall erase the MBMS context data. Furthermore, the UE shall not use GPRS SM procedures for MBMS contexts until the GPRS\_SM\_MBMS leaf value is set to "0".

### 5.13 /< X > /IMS

The IMS leaf indicates an operator"s preference to enable or disable IMS procedures for sending IMS registration request.

The IMS procedures for sending IMS registration request are specified in 3GPP TS 24.229 [7].

- Occurrence: ZeroOrOne
- Format: bool
- Access Types: Get
- Values: 0, 1
  - 0 Indicates that IMS procedures for sending IMS registration request are enabled.
  - 1 Indicates that IMS procedures for sending IMS registration request are disabled.

When the IMS leaf value is set to "1", the UE shall initiate the user-initiated deregistration procedure for IMS. Furthermore, the UE shall not use IMS procedures for sending IMS registration request until the IMS leaf value is set to "0".

#### 5.14 /<X>/Text

The Text leaf provides a means for including information that will be displayed by the ME. The information contained in the text leaf should be in the ME selected language, via the OMA DM standard procedure. The information should contain information in order to assist in determining the cause of non-availability of specific services and what to do for example, a text string indicating the disabled service(s) and customer service number(s). An example of possible information to be displayed: "The GPRS service of the handset is currently disabled. For further information, please contact TelServices Help Centre by calling 111 from your handset or +44 7777 111 111 whilst abroad. Alternatively, you may wish to get in touch with us by email at help@telservices.net".

Occurrence: ZeroOrOne

Format: chr

Access Types: Get

- Values: <End-user displayable text string>

When the OMA DM server updates the value of this leaf, the OMA DM server must be configured to ensure that the information provided in the CustomerCareNumbers, described in the sub-clauses 5.15, 5.16 and 5.17, is updated accordingly, i.e. the same customer care service number(s) is(are) provided by the CustomerCareNumbers.

The ME should use and display all the information provided by the Text leaf to inform the end-user about the non-availability of services and/or customer care service number(s). The possible interactions with the end-user are implementation specific.

#### 5.15 /<X>/CustomerCareNumbers/

The CustomerCareNumbers interior node is used to allow a reference to a list of customer care service numbers.

- Occurrence: ZeroOrOne

- Format: node

- Access Types: Get

- Values: N/A

When the OMA DM server updates the values of the CustomerCareNumbers sub-nodes, the OMA DM server must be configured to ensure that the information provided in the Text leaf, described in the sub-clause 5.14, is updated accordingly, i.e. the same customer care service number(s) is(are) provided by the Text leaf.

## 5.16 /<X>/CustomerCareNumbers/<X>

This run-time node acts as a placeholder for one or more customer care service numbers.

Occurrence: OneOrMore

Format: node

- Access Types: Get

Values: N/A

#### 5.17 /<X>/CustomerCareNumbers/<X>/CustomerCareNumber

The CustomerCareNumber leaf represents one customer care service number. This leaf provides a means for including information about customer care service number which can be used, by the end-user, in determining the cause of non-availability of specific services.

The CustomerCareNumber leaf value shall be either a telephone number according to the E.164 scheme (see ITU-T Rec. E.164 [9]) or nationally-specific operator number, e.g. 191, 150.

- Occurrence: One

Format: chr

Access Types: Get

- Values: <Customer care service number>

#### 5.17A /<X>/AlertServerID

The AlertServerID leaf indicates the server identifier for an OMA DM server. This leaf provides a means for informing about the fact that the SDoUE MO has been modified.

The AlertServerID leaf value is used by the UE to send an OMA DM generic alert message (see Enabler Release Definition OMA-ERELD-DM-V1\_2 [8]) any time the SDoUE MO is modified by an OMA DM server different than the one indicated by the AlertServerID leaf value.

Occurrence: ZeroOrOne

Format: chr

Access Types: Get

- Values: <Server identifier>

The UE shall send an OMA DM generic alert message immediately after the SDoUE MO has been modified by an OMA DM server different than the one identified by the AlertServerID leaf value. The Type element of the OMA DM generic alert message shall be set to "Reserved-Domain-Name: org.3gpp.SDoUE.changesperformedalert".

## 5.18 /<X>/ IMS\_EmergencyCalls

The IMS\_EmergencyCalls interior node indicates an operator"s preference to enable or disable emergency call procedures over IMS.

NOTE 1: Disabling of emergency call control procedures over IMS is subject to regional regulatory requirements. Therefore, emergency call control procedures over IMS cannot be disabled in regions where support of them is required (see 3GPP TS 22.011 [2]).

The emergency call procedures over IMS are specified in 3GPP TS 24.229 [7].

Occurrence: ZeroOrOne

- Format: bool

- Access Types: Get

- Values: 0, 1

0 – Indicates that emergency calls over IMS are enabled.

1 – Indicates that emergency calls over IMS are disabled.

When the IMS\_EmergencyCalls node value is set to "1" and the UE detects being under coverage of a PLMN (identified by Mobile Country Code (MCC) and Mobile Network Code (MNC)) as indicated by any of the stored

Country and Network pairs of nodes (see sub-clauses 5.19, 5.20 and 5.21), then the UE shall initiate the signalling procedure for release of all emergency calls over IMS. Furthermore, the UE shall not use IMS procedures to establish emergency calls until the IMS\_EmergencyCalls node value is set to "0" or the UE detects a change of Mobile Country Code (MCC) and Mobile Network Code (MNC) that does not match any of the stored Country and Network pairs of nodes.

NOTE 2: As described by the definition and structure of the SDoUE MO the Country and Network nodes, if exist, constitute a pair of nodes. However, it is possible to indicate only a country/region by means of only setting the value of the Country node.

## 5.19 /<X>/IMS\_EmergencyCalls/<X>

This run-time node acts as a placeholder for one or more Country nodes. Furthermore, this node provides a means for the operator to indicate where emergency call procedures over IMS are disabled (i.e. The IMS\_EmergencyCalls value is set to "1").

Occurrence: ZeroOrMore

Format: node

Access Types: Get

Values: N/A

## 5.20 /<X>/IMS\_EmergencyCalls/<X>/Country

The Country interior node represents one Mobile Country Code (MCC). This node provides a means for including information that can be used to indicate in which MCC the emergency call procedures over IMS are disabled (i.e. The IMS\_EmergencyCalls value is set to "1").

The Country node value shall be a Mobile Country Code (MCC) as specified by ITU-T E.212 [10].

- Occurrence: One

Format: chr

Access Types: Get

- Values: <Mobile Country Code>

The UE shall only use the information stored in the Country node when emergency call control procedures are disabled (i.e. The IMS\_EmergencyCalls value is set to "1").

## 5.21 /<X>/IMS\_EmergencyCalls/<X>/Country/Network

The Network leaf represents one Mobile Network Code (MNC). This leaf provides a means, together with the Country leaf, for including information that can be used to indicate in which MCC and MNC the emergency call procedures over IMS are disabled.

The Network leaf value shall be a Mobile Network Code (MNC) as specified by ITU-T E.212 [10].

- Occurrence: ZeroOrOne

Format: chr

Access Types: Get

- Values: <Mobile Network Code>

The UE shall only use the information stored in the Network leaf when emergency call procedures over IMS are disabled (i.e. The IMS\_EmergencyCalls value is set to "1"). Furthermore, the UE shall interpret the information stored in the Network leaf, if exists, in conjunction with the corresponding Country node.

#### 5.22 /<X>/Ext

The Ext is an interior node for where the vendor specific information about the SDoUE MO is being placed (vendor meaning application vendor, device vendor etc.). Usually the vendor extension is identified by vendor specific name under the ext node. 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

# Annex A (informative): Management Object DDF

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

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

```
<!DOCTYPE MgmtTree PUBLIC "-//OMA//DTD SYNCML-DMDDF 1.2//EN"</p>
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>x</NodeName>
      <DFProperties>
         <AccessType>
            <Get/>
         </AccessType>
         <Description>SDoUE settings</Description>
         <DFFormat>
             <node/>
         </DFFormat>
         <Occurrence>
             <ZeroOrOne/>
         </Occurrence>
         <DFTitle>The SDoUE Management Object./DFTitle>
            <DDFName/>
         </DFType>
      </DFProperties>
         <NodeName>Name</NodeName>
         <DFProperties>
            <AccessType>
                <Get/>
            </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>CS_Calls</NodeName>
         <DFProperties>
            <AccessType>
                <Get/>
            </AccessType>
            <DFFormat>
```

```
<bool>
      </DFFormat>
      <Occurrence>
         <ZeroOrOne/>
      </Occurrence>
      <DFTitle>Indication of whether mobile-originated CS calls are enabled.
      <DFType>
         <MIME>text/plain</MIME>
      </DFType>
   </DFProperties>
</Node>
<Node>
   <NodeName> CS_EmergencyCalls</NodeName>
   <DFProperties>
      <AccessType>
         <Get/>
      </AccessType>
      <DFFormat>
         <bool>
      </DFFormat>
      <Occurrence>
         <ZeroOrOne/>
      </Occurrence>
      <DFTitle>Indication of whether CS emergency call procedures are enabled.
      <DFType>
         <MIME>text/plain</MIME>
      </DFType>
   </DFProperties>
  <Node>
     <NodeName></NodeName>
     <DFProperties>
        <AccessType>
           <Get />
        </AccessType>
        <DFFormat>
           <node />
        </DFFormat>
        <Occurrence>
           <ZeroOrMore />
        </Occurrence>
        <DFType>
           <DDFName></DDFName>
        </DFType>
     </DFProperties>
     <Node>
        <NodeName>Country</NodeName>
        <DFProperties>
           <AccessType>
              <Get />
           </AccessType>
           <DFFormat>
              <chr />
           </DFFormat>
           <Occurrence>
              <One />
           <DFTitle>A country or region identified by an Mobile Country Code (MCC).
           <DFType>
              <MIME>text/plain</MIME>
           </DFType>
        </DFProperties>
```

```
<Node>
                 <NodeName>Network</NodeName>
                 <DFProperties>
                    <AccessType>
                        <Get />
                    </AccessType>
                    <DFFormat>
                       <chr />
                    </DFFormat>
                    <Occurrence>
                        <ZeroOrOne />
                    </Occurrence>
                    <DFTitle>A network code identified by an Mobile Network Code (MNC).
                    <DFType>
                        <MIME>text/plain</MIME>
                    </DFType>
                 </DFProperties>
              </Node>
            </Node>
         </Node>
      </Node>
      <Node>
         <NodeName>SupplementaryServices</NodeName>
         <DFProperties>
            <AccessType>
               <Get/>
            </AccessType>
            <DFFormat>
               <bool>
            </DFFormat>
            <Occurrence>
               <ZeroOrOne/>
            </Occurrence>
            <DFTitle>Indication of whether mobile-originated Supplementary service operations are
enabled.</DFTitle>
            <DFType>
               <MIME>text/plain</MIME>
            </DFType>
         </DFProperties>
      </Node>
      <Node>
         <NodeName>CS_SMS</NodeName>
         <DFProperties>
            <AccessType>
               <Get/>
            </AccessType>
            <DFFormat>
               <bool>
            </DFFormat>
            <Occurrence>
               <ZeroOrOne/>
            </Occurrence>
            <DFTitle>Indication of whether mobile-originated SMS via CS is enable.
               <MIME>text/plain</MIME>
            </DFType>
         </DFProperties>
      </Node>
      <Node>
         <NodeName>PS_SMS</NodeName>
```

```
<DFProperties>
      <AccessType>
         <Get/>
      </AccessType>
      <DFFormat>
         <bool>
      </DFFormat>
      <Occurrence>
         <ZeroOrOne/>
      </Occurrence>
      <DFTitle>Indication of whether mobile-originated SMS via PS is enable.
      <DFType>
         <MIME>text/plain</MIME>
      </DFType>
   </DFProperties>
</Node>
<Node>
   <NodeName>CS_LCS</NodeName>
   <DFProperties>
      <AccessType>
         <Get/>
      </AccessType>
      <DFFormat>
         <bool>
      </DFFormat>
      <Occurrence>
         <ZeroOrOne/>
      </Occurrence>
      <DFTitle>Indication of whether mobile-originated LCS via CS is enable.
      <DFType>
         <MIME>text/plain</MIME>
      </DFType>
   </DFProperties>
</Node>
<Node>
   <NodeName>PS_LCS</NodeName>
   <DFProperties>
      <AccessType>
         <Get/>
      </AccessType>
      <DFFormat>
         <bool>
      </DFFormat>
      <Occurrence>
         <ZeroOrOne/>
      </Occurrence>
      <DFTitle>Indication of whether mobile-originated LCS via PS is enable.
      <DFType>
         <MIME>text/plain</MIME>
      </DFType>
   </DFProperties>
</Node>
   <NodeName>GPRS_SM_PDP</NodeName>
   <DFProperties>
      <AccessType>
         <Get/>
      </AccessType>
      <DFFormat>
         <bool>
```

```
</DFFormat>
             <Occurrence>
                <ZeroOrOne/>
             </Occurrence>
             <DFTitle>Indication of whether mobile-originated GPRS SM procedures for PDP contexts are
enabled.</DFTitle>
            <DFType>
                <MIME>text/plain</MIME>
             </DFType>
         </DFProperties>
      </Node>
      <Node>
         <NodeName>GPRS_SM_MBMS</NodeName>
         <DFProperties>
             <AccessType>
                <Get/>
             </AccessType>
             <DFFormat>
                <bool>
             </DFFormat>
             <Occurrence>
                <ZeroOrOne/>
             </Occurrence>
             <DFTitle>Indication of whether mobile-originated GPRS SM procedures for MBMS contexts are
enabled.</DFTitle>
             <DFType>
                <MIME>text/plain</MIME>
             </DFType>
         </DFProperties>
      </Node>
      <Node>
         <NodeName>IMS</NodeName>
         <DFProperties>
             <AccessType>
                <Get/>
             </AccessType>
             <DFFormat>
                <bool>
             </DFFormat>
             <Occurrence>
                <ZeroOrOne/>
             </Occurrence>
             <DFTitle>Indication of whether IMS procedures for sending IMS registration request are
enabled.</DFTitle>
             <DFType>
                <MIME>text/plain</MIME>
             </DFType>
         </DFProperties>
      </Node>
      <Node>
         <NodeName>Text</NodeName>
         <DFProperties>
             <AccessType>
                <Get/>
            </AccessType>
             <DFFormat>
                <chr>
             </DFFormat>
             <Occurrence>
                <ZeroOrOne/>
```

```
</Occurrence>
      <DFTitle>Information to be displayed by the handset.
      <DFType>
         <MIME>text/plain</MIME>
      </DFType>
   </DFProperties>
</Node>
<Node>
   <NodeName>CustomerCareNumbers</NodeName>
   <DFProperties>
      <AccessType>
         <Get/>
      </AccessType>
      <DFFormat>
         <chr/>
      </DFFormat>
      <Occurrence>
         <ZeroOrOne/>
      </Occurrence>
      <DFTitle>The customer care service numbers./DFTitle>
      <DFType>
         <MIME>text/plain</MIME>
      </DFType>
   </DFProperties>
  <Node>
     <NodeName></NodeName>
     <DFProperties>
        <AccessType>
           <Get />
        </AccessType>
        <DFFormat>
           <node />
        </DFFormat>
        <Occurrence>
           <OneOrMore />
        </Occurrence>
        <DFType>
           <DDFName></DDFName>
        </DFType>
     </DFProperties>
     <Node>
        <NodeName>CustomerServiceNumber</NodeName>
        <DFProperties>
           <AccessType>
              <Get />
           </AccessType>
           <DFFormat>
              <chr />
           </DFFormat>
           <Occurrence>
              <One />
           </Occurrence>
           <DFTitle>A customer care service number.
           <DFType>
              <MIME>text/plain</MIME>
           </DFType>
        </DFProperties>
     </Node>
   </Node>
               </Node>
<Node>
   <NodeName>AlertServerID</NodeName>
```

```
<DFProperties>
      <AccessType>
         <Get/>
      </AccessType>
      <DFFormat>
         <node/>
      </DFFormat>
      <Occurrence>
         <ZeroOrOne/>
      </Occurrence>
      <DFTitle>An OMA DM server identifier for alerting./DFTitle>
      <DFType>
         <MIME>text/plain</MIME>
      </DFType>
   </DFProperties>
</Node>
<Node>
   <NodeName> IMS_EmergencyCalls</NodeName>
   <DFProperties>
      <AccessType>
         <Get/>
      </AccessType>
      <DFFormat>
         <bool>
      </DFFormat>
      <Occurrence>
         <ZeroOrOne/>
      </Occurrence>
      <DFTitle>Indication of whether emergency call procedures over IMS are enabled.
      <DFType>
         <MIME>text/plain</MIME>
      </DFType>
   </DFProperties>
   <Node>
      <NodeName></NodeName>
      <DFProperties>
        <AccessType>
           <Get />
        </AccessType>
        <DFFormat>
           <node />
        </DFFormat>
        <Occurrence>
           <ZeroOrMore />
        </Occurrence>
        <DFType>
           <DDFName></DDFName>
        </DFType>
      </DFProperties>
      <Node>
        <NodeName>Country</NodeName>
        <DFProperties>
           <AccessType>
               <Get />
           </AccessType>
           <DFFormat>
               <chr />
           </DFFormat>
           <Occurrence>
              <One />
           </Occurrence>
```

```
<DFTitle>A country or region identified by an Mobile Country Code (MCC).
                  <DFType>
                     <MIME>text/plain</MIME>
                  </DFType>
               </DFProperties>
               <Node>
                  <NodeName>Network</NodeName>
                  <DFProperties>
                    <AccessType>
                        <Get />
                    </AccessType>
                    <DFFormat>
                        <chr />
                    </DFFormat>
                    <Occurrence>
                        <ZeroOrOne />
                     </Occurrence>
                    <DFTitle>A network code identified by an Mobile Network Code (MNC).
                    <DFType>
                        <MIME>text/plain</MIME>
                     </DFType>
                  </DFProperties>
               </Node>
            </Node>
         </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	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2006-03					Rapporteur input framework document agreed at CT1#41.	0.0.0	0.1.0
2006-05					Implementation of CRs agreed at CT1#42: C1-061070	0.1.0	0.2.0
2006-09					Implementation of CRs agreed at CT1#43: C1-061593, C1-061594, C1-061595, C1-061699 Version 1.0.0 created for presentation for information to plenary	0.2.0	1.0.0
					(TSG CT #33).		
2006-11					Implementation of CRs agreed at CT1#44: C1-062133, C1-062410, C1-062411, C1-062412, C1-062413, C1-062504, C1-062505, C1-062506 Editorial changes done. Version 2.0.0 created for presentation for approval to plenary (TSG	1.0.0	2.0.0
2006-12					CT #34). Version 2.0.0 approved in CT#34 as CP-060652; Version 7.0.0	2.0.0	7.0.0
2000-12					created by MCC	2.0.0	7.0.0
2007-03	CT-35	CP-070150	0001	1	Cleanups and corrections	7.0.0	7.1.0
2007-03	CT-35	CP-070150	0002	1	Behaviour of the UE when SupplementaryServices disable	7.0.0	7.1.0
2007-03	CT-35	CP-070150	0003		Manegement Object (MO) identifier for SDoUE	7.0.0	7.1.0
2007-03	CT-35	CP-070150	0004		Access to the SDoUE MO when in VPLMN	7.0.0	7.1.0
2007-03	CT-35	CP-070150	0005	1	Behaviour of the UE when EmergencyCalls disable	7.0.0	7.1.0
2007-06	CT-36	CP-070379	0006	1	Disabling of emergency calls provedures over IMS	7.1.0	7.2.0
2008-03	CT-39	CP-080124	0007		Removal of editors note	7.2.0	7.3.0
2008-03	CT-39	CP-080124	8000		Correction to the GPRS_SM_PDP leaf	7.2.0	7.3.0
2008-12					Upgrade to Rel-8	7.3.0	8.0.0

# History

Document history							
V8.0.0	January 2009	Publication					