ETSI TS 124 105 V13.1.0 (2016-04)



Universal Mobile Telecommunications System (UMTS); LTE;

Application specific Congestion control for Data Communication (ACDC) Management Object (MO) (3GPP TS 24.105 version 13.1.0 Release 13)





Reference RTS/TSGC-0124105vd10 Keywords LTE.UMTS

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

Important notice

The present document can be downloaded from: http://www.etsi.org/standards-search

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the only prevailing document is the print of the Portable Document Format (PDF) version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status.

Information on the current status of this and other ETSI documents is available at

http://portal.etsi.org/tb/status/status.asp

If you find errors in the present document, please send your comment to one of the following services: https://portal.etsi.org/People/CommiteeSupportStaff.aspx

Copyright Notification

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.

The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2016.
All rights reserved.

DECTTM, **PLUGTESTS**TM, **UMTS**TM and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members. **3GPP**TM and **LTE**TM are Trade Marks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

GSM® and the GSM logo are Trade Marks registered and owned by the GSM Association.

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (https://ipr.etsi.org/).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

This Technical Specification (TS) has been produced by ETSI 3rd Generation Partnership Project (3GPP).

The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between GSM, UMTS, 3GPP and ETSI identities can be found under http://webapp.etsi.org/key/queryform.asp.

Modal verbs terminology

In the present document "shall", "shall not", "should", "should not", "may", "need not", "will", "will not", "can" and "cannot" are to be interpreted as described in clause 3.2 of the <u>ETSI Drafting Rules</u> (Verbal forms for the expression of provisions).

"must" and "must not" are NOT allowed in ETSI deliverables except when used in direct citation.

Contents

Intelle	ctual Property Rights.		2
Forew	ord		2
Modal	verbs terminology		7
	<i>2,</i>		
Forew	ord		4
1	Scope		5
2	References		5
	Definitions and abbrev	viations	_
3 3.1			
3.1			
3.2	Addreviations		
4	ACDC MO		6
5	ACDC MO parameter	S	ϵ
5.1	1	3	
5.2			
5.3			
5.4			
5.4.1			
5.4.2		`	
5.4.3		ACDCConf	
5.4.4		-/ACDCConf/ <x></x>	
5.4.5	< <i>X</i> >/ACDC/< <i>X</i> >	-/ACDCConf/ <x>/ApplicationInfo</x>	8
5.4.6	< <i>X</i> >/ACDC/< <i>X</i> >	-/ACDCConf/< <i>X</i> >/ApplicationInfo/< <i>X</i> >	8
5.4.7		-/ACDCConf/ <x>/ApplicationInfo/<x>/App-ID</x></x>	
5.4.8	< <i>X</i> >/ACDC/< <i>X</i> >	·/ACDCConf/ <x>/ApplicationInfo/<x>/App-ID/<x></x></x></x>	8
5.4.9	< <i>X</i> >/ACDC/< <i>X</i> >	-/ACDCConf/ <x>/ApplicationInfo/<x>/App-ID/<x>/OSId</x></x></x>	8
5.4.10	< <i>X</i> >/ACDC/< <i>X</i> >	-/ACDCConf/ <x>/ApplicationInfo/<x>/App-ID/<x>/OSApps</x></x></x>	9
5.4.11	< <i>X</i> >/ACDC/< <i>X</i> >	-/ACDCConf/ <x>/ApplicationInfo/<x>/App-ID/<x>/OSApps/<x></x></x></x></x>	9
5.4.12		-/ACDCConf/ <x>/ApplicationInfo/<x>/App-ID/<x>/OSApps/<x>/OSAppId</x></x></x></x>	
5.4.13	< <i>X</i> >/ACDC/< <i>X</i> >	-/ACDCConf/ <x>/ACDCCategory</x>	9
5.5	< <i>X</i> >/Ext		10
Annex	A (informative):	ACDC MO DDF	11
Annex	B (informative):	Change history	16
Histor	V		17

Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

1 Scope

The present document defines Management Object (MO) that is used to configure the UE with parameters related to Application specific Congestion control for Data Communication (ACDC) functionality.

The 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 [3].

The MO consists of relevant parameters for provisioning of ACDC at a UE.

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] OMA-ERELD-DM-V1_2: "Enabler Release Definition for OMA Device Management". [4] 3GPP TS 23.003: "Numbering, addressing and identification". [5] 3GPP TS 31.102: "Characteristics of the USIM Application". IETF RFC 3629 (November 2003): "UTF-8, a transformation format of ISO 10646". [6] IETF RFC 4122 (July 2005): "A Universally Unique IDentifier (UUID) URN Namespace". [7] "Unicode 5.1.0, Unicode Standard Annex #15; Unicode Normalization Forms", March 2008. [8]

3 Definitions and abbreviations

http://www.unicode.org

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].

ACDC Application specific Congestion control for Data Communication

4 ACDC MO

The ACDC MO is used to manage configuration parameters related to ACDC functionality for a UE supporting provisioning of such information. The presence and format of the ACDC configuration file on the USIM is specified in 3GPP TS 31.102 [5].

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

The OMA DM Access Control List (ACL) property mechanism (see OMA-ERELD-DM-V1_2 [3]) may be used to grant or deny access rights to OMA DM servers in order to modify nodes and leaf objects of the ACDC MO.

The following nodes and leaf objects are possible in the ACDC MO as described in figure 4.1.1 through figure 4.1.2:

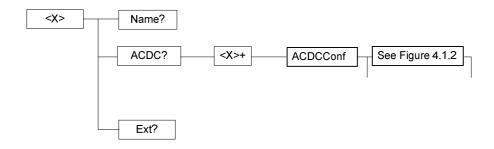


Figure 4.1.1: The ACDC Management Object

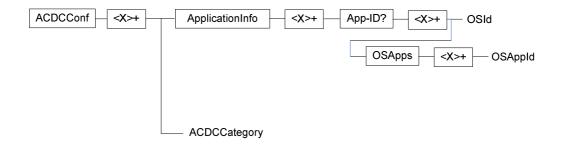


Figure 4.1.2: The ACDC Configuration

5 ACDC MO parameters

5.1 General

This clause describes the parameters for the ACDC 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 ACDC MO settings.

- Occurrence: ZeroOrOne

- Format: chr

- Access Types: Get

- Values: <User displayable name>

The User displayable name shall be represented by Unicode characters encoded as UTF-8 as specified in IETF RFC 3629 [6] and formatted using Normalization Form KC (NFKC) as specified in Unicode Standard Annex #15; Unicode Normalization Forms [8].

5.4 ACDC

5.4.1 <*X*>/ACDC

The ACDC node acts as a placeholder for ACDC information.

- Occurrence: ZeroOrOne

- Format: node

- Access Types: Get, Replace

- Values: <N/A>

5.4.2 < X > /ACDC / < X >

This interior node acts as a placeholder for one or more ACDC policies.

- Occurrence: OneOrMore

Format: node

- Access Types: Get, Replace

- Values: <N/A>

5.4.3 <X>/ACDC/<X>/ACDCConf

The ACDCConf node indicates a particular ACDC configuration parameter.

- Occurrence: One

- Format: node

- Access Types: Get, Replace

- Values: <N/A>

5.4.4 < X > ACDC / < X > ACDCConf / < X >

This interior node acts as a placeholder for one or more ACDC configuration parameter.

- Occurrence: OneOrMore

- Format: node

- Access Types: Get, Replace

- Values: <N/A>

5.4.5 <*X*>/ACDC/<*X*>/ACDCConf/<*X*>/ApplicationInfo

The ApplicationInfo node indicates a particular application information.

- Occurrence: One

Format: node

- Access Types: Get, Replace

Values: <N/A>

5.4.6 <X>/ACDC/<X>/ACDCConf/<X>/ApplicationInfo/<X>

This interior node acts as a placeholder for one or more ApplicationInfo.

- Occurrence: OneOrMore

- Format: node

- Access Types: Get, Replace

Values: <N/A>

5.4.7 <X>/ACDC/<X>/ACDCConf/<X>/ApplicationInfo/<X>/App-ID

This interior node acts as a placeholder for an ApplicationInfo based on an applicationID.

- Occurrence: ZeroOrOne

- Format: node

- Access Types: Get, Replace

- Values: N/A

5.4.8 <X>/ACDC/<X>/ACDCConf/<X>/ApplicationInfo/<X>/App-ID/<X>

This interior node acts as a placeholder for one or more combinations of OSId and OSAppId values.

Occurrence: OneOrMore

Format: node

Access Types: Get, Replace

- Values: <N/A>

5.4.9 <*X*>/ACDC/<*X*>/ACDCConf/<*X*>/ApplicationInfo/<*X*>/App-ID/<*X*>/OSId

The OSId leaf indicates an operating system identifier.

- Occurrence: One

- Format: chr

- Access Types: Get, Replace

- Values: <operating system identifier>

The format of the operating system identifier is a Universally Unique IDentifier (UUID) as specified in IETF RFC 4122 [7].

5.4.10 <*X*>/ACDC/<*X*>/ACDCConf/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/Appli

This interior node acts as a placeholder for the list of OS specific application identifiers.

Occurrence: One

Format: node

- Access Types: Get, Replace

- Values: <N/A>

5.4.11 <*X*>/ACDC/<*X*>/ACDCConf/<*X*>/ApplicationInfo/<*X*>/App-ID/<*X*>/OSApps/<*X*>

This interior node acts as a placeholder for an OS specific application identifiers.

- Occurrence: OneOrMore

Format: node

- Access Types: Get, Replace

Values: <N/A>

5.4.12 <*X*>/ACDC/<*X*>/ACDCConf/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/ApplicationInfo/<*X*>/Appli

The OSAppId leaf indicates an OS specific application identifier.

- Occurrence: One

- Format: chr

- Access Types: Get, Replace

Values: <OS specific application identifier>

Further definition of the format of the OS specific application identifier is beyond the scope of this specification.

5.4.13 <X>/ACDC/<X>/ACDCConf/<X>/ACDCCategory

The ACDCCategory leaf represents indicates the ACDC category for which applications matching the ApplicationInfo belongs.

Occurrence: One

- Format: int

- Access Types: Get, Replace

- Values: <ACDC category>

The ACDC category indicates the category to which the identified application belongs. Table 5.4.13 gives the decode of the ACDC category. The highest ranked ACDC category means the ACDC category with the lowest value and a UE treats applications assigned to the highest ranked ACDC category as the least restriction to access attempts. The lowest

ranked ACDC category means the ACDC category with the highest value and a UE treats applications assigned to the lowest ranked ACDC category as the most restriction to access attempts.

Table 5.4.13: Values of ACDC category

Value	Description
0	Reserved
1	Highest ranked ACDC category value
2-15	ACDC category value indicating descending order of ranking
16	Lowest ranked ACDC category value

5.5 < X > /Ext

The Ext is an interior node for where the vendor specific information about the NAS configuration 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 identifier 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): ACDC MO 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"</pre>
"http://www.openmobilealliance.org/tech/DTD/dm_ddf-v1_2.dtd">
<MgmtTree>
   <VerDTD>1.2</VerDTD>
   <Man>--The device manufacturer--
   <Mod>--The device model--</Mod>
    <Node>
        <NodeName>ACDC</NodeName>
        <DFProperties>
           <AccessType>
               <Get/>
           </AccessType>
           <Description>ACDC settings/Description>
           <DFFormat>
           </DFFormat>
           <Occurrence>
                <ZeroOrOne/>
           </Occurrence>
           <DFTitle>The ACDC Management Object.
                <DDFName/>urn:oma:mo:ext-3gpp-ACDC-config:1.0<DDFName/>
           </DFType>
        </DFProperties>
        <Node>
            <NodeName>Name</NodeName>
            <DFProperties>
               <AccessType>
                   <Get/>
                </AccessType>
                <DFFormat>
                   <chr/>
                </DFFormat>
                <0ccurrence>
                    <ZeroOrOne/>
                </Occurrence>
                <DFTitle>User displayable name for the node.
                    <MIME>text/plain</MIME>
                </DFType>
           </DFProperties>
        </Node>
        <Node>
           <NodeName>ACDC</NodeName>
           <!-- The ACDC node starts here. -->
           <DFProperties>
                <AccessType>
                   <Replace/>
                </AccessType>
                <DFFormat>
                    <node/>
                </DFFormat>
                <Occurrence>
                    <ZeroOrOne/>
                </Occurrence>
                <DFTitle>ACDC information for access control.
                <DFType>
                    <DDFName/>
                </DFType>
            </DFProperties>
```

```
<Node>
   <NodeName></NodeName>
   <DFProperties>
       <AccessType>
           <Get/>
           <Replace/>
       </AccessType>
       <DFFormat>
           <node/>
        </DFFormat>
        <Occurrence>
           <OneOrMore/>
       </Occurrence>
       <DFType>
           <DDFName></DDFName>
       </DFType>
   </DFProperties>
   <Node>
       <NodeName>ACDCConf</NodeName>
        <DFProperties>
            <AccessType>
               <Get/>
               <Replace/>
            </AccessType>
           <DFFormat>
                <node/>
            </DFFormat>
           <Occurrence>
                < One / >
           </Occurrence>
            <DFTitle>ACDC configuration parameter.
                <MIME>text/plain</MIME>
           </DFType>
        </DFProperties>
        <Node>
           <NodeName></NodeName>
            <DFProperties>
               <AccessType>
                   <Get/>
                   <Replace/>
                </AccessType>
                <DFFormat>
                   <node/>
                </DFFormat>
                <Occurrence>
                    <OneOrMore/>
                </Occurrence>
                <DFType>
                   <DDFName></DDFName>
                </DFType>
            </DFProperties>
            <Node>
                <NodeName>ApplicationInfo</NodeName>
                <DFProperties>
                    <AccessType>
                       <Get/>
                        <Replace/>
                    </AccessType>
                    <DFFormat>
                        <node/>
                    </DFFormat>
                    <0ccurrence>
                        <0ne/>
                    </Occurrence>
                    <DFTitle>Application information.
                    <DFType>
                        <MIME>text/plain</MIME>
                    </DFType>
                </DFProperties>
                <Node>
                    <NodeName></NodeName>
                    <DFProperties>
                        <AccessType>
```

```
<Get/>
        <Replace/>
    </AccessType>
   <DFFormat>
       <node/>
    </DFFormat>
    <Occurrence>
       <OneOrMore/>
    </Occurrence>
    <DFType>
       <DDFName></DDFName>
    </DFType>
</DFProperties>
   <NodeName>App-ID</NodeName>
    <!-- The application ID. -->
    <DFProperties>
       <AccessType>
           <Get/>
           <Replace/>
        </AccessType>
        <DFFormat>
           <node/>
        </DFFormat>
        <Occurrence>
            <ZeroOrOne/>
        </Occurrence>
        <DFTitle>application identifier</DFTitle>
        <DFType>
           <DDFName/>
        </DFType>
    </DFProperties>
    <Node>
        <NodeName></NodeName>
        <DFProperties>
           <AccessType>
                <Get/>
                <Replace/>
            </AccessType>
            <DFFormat>
                <node/>
            </DFFormat>
            <Occurrence>
               <OneOrMore/>
            </Occurrence>
            <DFType>
                <DDFName></DDFName>
            </DFType>
        </DFProperties>
        <Node>
            <NodeName>OSId</NodeName>
            <DFProperties>
                <AccessType>
                    <Get/>
                    <Replace/>
                </AccessType>
                <DFFormat>
                    <chr/>
                </DFFormat>
                <Occurrence>
                    <0ne/>
                </Occurrence>
                <DFTitle>Operating system identifier</DFTitle>
                <DFType>
                    <MIME>text/plain</MIME>
                </DFType>
            </DFProperties>
        </Node>
        <Node>
            <NodeName>OSApps</NodeName>
            <DFProperties>
                <AccessType>
                    <Get/>
                    <Replace/>
```

</AccessType>

```
<DFFormat>
                                   <node/>
                                </DFFormat>
                                <Occurrence>
                                   <0ne/>
                                </Occurrence>
                                <DFTitle>OS specific applications
                                <DFType>
                                    <DDFName/>
                                </DFType>
                            </DFProperties>
                            <Node>
                                <NodeName></NodeName>
                                <DFProperties>
                                    <AccessType>
                                        <Get/>
                                        <Replace/>
                                    </AccessType>
                                    <DFFormat>
                                        <node/>
                                    </DFFormat>
                                    <Occurrence>
                                        <OneOrMore/>
                                    </Occurrence>
                                    <DFType>
                                        <DDFName></DDFName>
                                    </DFType>
                                </DFProperties>
                                    <NodeName>OSAppId</NodeName>
                                    <DFProperties>
                                        <AccessType>
                                            <Get/>
                                            <Replace/>
                                        </AccessType>
                                        <DFFormat>
                                            <chr/>
                                        </DFFormat>
                                        <Occurrence>
                                            <0ne/>
                                        </Occurrence>
                                        <DFTitle>OS specific app ID</DFTitle>
                                        <DFType>
                                            <MIME>text/plain</MIME>
                                        </DFType>
                                    </DFProperties>
                                </Node>
                            </Node>
                        </Node>
                    </Node>
                </Node>
            </Node>
        </Node>
        <Node>
            <NodeName>ACDCCategory</NodeName>
            <DFProperties>
                <AccessType>
                   <Get/>
                    <Replace/>
                </AccessType>
                <DFFormat>
                   <int/>
                </DFFormat>
                <Occurrence>
                    <0ne/>
                </Occurrence>
                <DFTitle>ACDC category
                <DFType>
                    <MIME>text/plain</MIME>
                </DFType>
            </DFProperties>
        </Node>
    </Node>
</Node>
```

```
</Node>
       </Node>
       <Node>
           <NodeName>Ext</NodeName>
           <DFProperties>
               <AccessType>
                  <Get/>
               </AccessType>
               <DFFormat>
                  <node/>
               </DFFormat>
               <Occurrence>
                  <ZeroOrOne/>
               </Occurrence>
               <DFTitle>A collection of all extension objects.
               <DFType>
                   <DDFName/>
               </DFType>
           </DFProperties>
       </Node>
   </Node>
</MgmtTree>
```

Annex B (informative): Change history

Change history										
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New			
2015-02					TS skeleton generated for submission at CT1#90	-	0.0.0			
2015-02	CT1#90				Includes the following contribution agreed by CT1: C1-150781	0.0.0	0.1.0			
2015-08	CT1#93				Implementation of the following contribution agreed by CT1: C1-152934	0.1.0	0.2.0			
2015-09	CT-69	CP-150537			Version 1.0.0 created for presentation for information	0.2.0	1.0.0			
2015-10	CT1#94				Implementation of the following contributions agreed by CT1: C1-153670 and C1-153671	1.0.0	1.1.0			
2015-12	CT-70	CP-150732			Version 2.0.0 created for presentation for approval	1.1.0	2.0.0			
2015-12	CT-70				Version 13.0.0 created after approval	2.0.0	13.0.0			
2016-03	CT-71	CP-160069	0001		Removal of Editor"s note on MO identifier in TS 24.105	13.0.0	13.1.0			

History

Document history						
V13.0.0	March 2016	Publication				
V13.1.0	April 2016	Publication				