3GPP TSG CT Meeting #28 **CP-050170**
1st – 3rd June 2005. Quebec, CANADA.

CR-Form-v7.1

CHANGE REQUEST

⌘ **24.167** **CR** **5** ⌘ **rev** **-** ⌘ Current version: **6.0.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: | UICC apps⌘ ☐ ME ☒ Radio Access Network ☐ Core Network ☒

Title:	⌘	Adding Client Provisioning Application Characteristics to IMS MO Rel-6
Source:	⌘	Nokia, Ericsson
Work item code:	⌘	IMS2
Date:	⌘	19/05/05
Category:	⌘	**B**
Release:	⌘	Rel-6

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction 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.

Use one of the following releases:
Ph2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)
Rel-7 (Release 7)

Reason for change:	⌘	Operator/network providers can configure mobile devices by two standardized means: (a) OMA Device Management - OMA DM (b) OMA Client Provisioning - CP OMA DM allows a dialog-like connection between the DM-server and the device, whilst CP is based on the network simply providing the configuration data to the device. In current environment CP is the more commonly used provisioning method. It can be assumed that CP will be available in a wider range of terminals before OMA DM is available widely. In order to apply OMA DM a Managed Object (MO) DDF is required. For IMS related parameters such a MO has been defined in TS 24.167. In order to apply CP a Application Characteristics (AC) is required. Currently there is no CP AC for IMS parameters available. This mechanism is included in TS 24.167 to ensure compatibility between device management andclient provisioning.
Summary of change:	⌘	A CP AC is defined for IMS parameters in a new Annex of TS 24.167.
Consequences if not approved:	⌘	IMS terminals can only be configured with OMA DM, but not with CP. CP is currently the most widely used device configuration mechanism. If not approved, IMS settings cannot be provisioned to a wide range of IMS terminals.

Clauses affected:	⌘	1, 2, Annex B			
Other specs affected:	⌘	**Y**	**N**	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘	As CP provides only a means to configure (i.e. access type "Replace" in the MO) data to the device, all parameters that are indicated to only read data (i.e. access type "get" in the MO) are left out from the CP AC.			

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

FIRST CHANGE

1 Scope

This document defines a mobile device 3GPP IMS Management Object. The management object is compatible with OMA Device Management protocol specifications, version 1.1.2 and upwards, and is defined using the OMA DM Device Description Framework as described in OMA-SyncML-DMTND-V1-1 [6] and OMA-SyncML-DMStdObj-V1-1-2 [7].

The 3GPP IMS Management Object consists of relevant parameters that can be managed for the IM CN Subsystem. This includes the basic framework defined in 3GPP TS 23.228 [4] and 3GPP TS 24.229 [5], and early IMS as defined in 3GPP TS 23.221 [3].

If the procedures for OMA Device Management is not supported by an implementation, the OMA Client Provisioning can be used as a fallback. Annex B of this document defines the Client Provisioning Application Characteristics as described in the Enabler Release Definition OMA-WAP-ProvCont-V1_1-20021112-C [y].

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the 3GPP IMS Management Object 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 23.003: "Numbering, addressing and identification".

[3] 3GPP TS 23.221: "Architectural requirements".

[4] 3GPP TS 23.228: "IP Multimedia Subsystem (IMS); Stage 2".

[5] 3GPP TS 24.229: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".

[6] OMA-SyncML-DMTND-V1-1: "SyncML Device Management Tree and Description".

[7] OMA-SyncML-DMStdObj-V1-1-2: "SyncML Device Management Standardized Objects".

[8] RFC 1123: "Requirements for Internet Hosts -- Application and Support".

[y] OMA-WAP-ProvCont-V1_1-20021112-C: "Enabler Release Definition for Client Privisioning, Version 1.1".

SECOND AND LAST CHANGE

Annex B (normative): Client Provisioning Application Characteristics

IDENTIFYING INFORMATION
######################
APPID: 3GPP_IMS.
APPID type: OMNA.
Owner: 3GPP CT1 Working Group.
Contact: 3GPP TSG CT WG1.
Registration version: 1.0.
Registration timestamp: 2005-xx-xx.
Application description: IP Multimedia Subsystem.
Application reference:
IMS specifications, TS 24.229, 23.221 and 23.228.
URL:http://ftp.3gpp.org/.

WELL-KNOWN PARAMETERS
#####################
Characteristic/name: APPLICATION/APPID.
Status: Required.
Occurs: 1/1.
Default value: None.
Used values: N/A.
Interpretation: The Application ID - this is the same as for the MO DDF.

Characteristic/name: APPLICATION/NAME.
Status: Required.
Occurs: 0/1.
Default value: None.
Used values: N/A.
Interpretation: User displayable name for the application.

Characteristic/name: APPLICATION/PROVIDER-ID.
Status: Required.
Occurs: 0/1.
Default value: None.
Used values: N/A.
Interpretation: An identifier for the IMS service provider that provides the client provisioning. This is used to distinguish between settings for different IMS service providers within a client.

Characteristic/name: APPLICATION/APPREF.
Status: Required.
Occurs: 0/1.
Default value: None.
Used values: N/A.
Interpretation:
The APPREF parameter defines the reference identity of the IMS APPLICATION characteristic. The APPREF parameter value is unique in the scope of the provisioning document. The TO-APPREF parameter included in other APPLICATION characteristic can be used for referring to the IMS APPLICATION characteristic.

Characteristic/name: APPLICATION/TO-NAPID.
Status: Required.
Occurs: 1/1.
Default value: None.
Used values: N/A.
Interpretation: The reference to the connectivity characteristics used for IMS.

APPLICATION-SPECIFIC PARAMETERS
###################################
Characteristic/name: APPLICATION/PDP_CONTEXTOPERPREF.
Status: Required.
Occurs: 1/1.
Default value: None.
Used values: 0 and 1.
Interpretation: Indication of the operator's preference for a dedicated PDP context for IMS signalling.

Characteristic/name: APPLICATION/P-CSCF_ADDRESS.
Status: Optional.
Occurs: 0/1.
Default value: 0.
Used values: N/A.
Interpretation: The address of the P-CSCF in FQDN format.

Characteristic/name: APPLICATION/TIMER_T1.
Status: Required.
Occurs: 0/1.
Default value: N/A.
Used values: Integer.
Interpretation: RFC 3261, timer T1.

Characteristic/name: APPLICATION/TIMER_T2.
Status: Required.
Occurs: 0/1.
Default value: N/A.
Used values: Integer.
Interpretation: RFC 3261, timer T2.

Characteristic/parameter: APPLICATION/TIMER_T4.
Status: Required.
Occurs: 0/1.
Default value: N/A.
Used values: Integer.
Interpretation: RFC 3261, timer T4.

PARAMETER VALUES
#################
Characteristic/name/parameter: APPLICATION/PDP_CONTEXTOPERPREF /0.
Status: Optional.
Interpretation: Indicates that the operator has no preference for a dedicated PDP context for SIP signalling.

Characteristic/name/parameter: APPLICATION/PDP_CONTEXTOPERPREF/1.
Status: Optional.
Interpretation: Indicates that the operator has preference for a dedicated PDP context for SIP signalling.

###END###

Annex ~~B~~C (informative): Change history

Change history								
Date	**TSG #**	**TSG Doc.**	**CR**	**Rev**	**Subject/Comment**	**Old**	**New**	**WG doc**
2004-10					Version 0.0.1: Preliminary proposal		0.0.1	
2004-11					Version 0.0.2: Version after CN1 #36	0.0.1	0.0.2	
2004-12					Version 1.0.0: Version after CN1#36 and editorial corrections	0.0.2	1.0.0	
2005-02					Version 1.1.0: Version after CN1#37 and editorial corrections	1.1.0	1.1.0	N1-050330

								N1-050393