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> (U)SIM Application Programming Interface (API); (U)SIM API for Java™ Card (3GPP TS 31.130 version 14.1.1 Release 14)





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## Foreword

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## 1 Scope

The present document defines the (U)SIM Application Programming Interface extending the "UICC API for Java Card<sup>TM</sup>" [2].

This API allows to develop a (U)SAT application running together with a (U)SIM application and using GSM/3G network features.

The present document includes information applicable to network operators, service providers, server - (U)SIM - and database manufacturers.

#### 2 References

[13]

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.
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Release as	s the present document.
[1]	ETSI TS 101 220: "Integrated Circuit Cards (ICC); ETSI numbering system for telecommunication; Application providers (AID)".
[2]	ETSI TS 102 241 V13.0.0: "UICC API for Java Card <sup>TM</sup> "
[3]	3GPP TS 31.102: "Characteristics of the USIM Application".
[4]	3GPP TS 51.011 Release 4: "Specification of the Subscriber Identity Module- Mobile Equipment (SIM $-$ ME) interface".
[5]	3GPP TS 23.041: "Technical realization of Cell Broadcast Service (CBS)".
[6]	3GPP TS 31.101: "UICC-terminal interface; Physical and logical characteristics".
[7]	3GPP TS 31.111: "USIM Application Toolkit (USAT)".
[8]	3GPP TS 51.014 Release 4: "Specification of the SIM Application Toolkit for the Subscriber Identity Module – Mobile Equipment (SIM – ME) interface".
[9]	3GPP TS 31.115: "Secured packet structure for the (U)SIM Toolkit applications".
[10]	3GPP TS 23.040: "Technical realization of the Short Message Service (SMS)".
[11]	ORACLE "Application Programming Interface, Java Card™ Platform, 3.0.1 Classic Edition".
[10]	ODACHERO CONTROL CONTROL OF CONTROL CO

[12] ORACLE "Runtime Environment Specification, Java Card<sup>TM</sup> Platform, 3.0.1 Classic Edition".

ORACLE "Virtual Machine Specification Java Card™ Platform, 3.0.1 Classic Edition".

Note: ORACLE Java Card<sup>TM</sup> Specifications can be downloaded at <a href="http://docs.oracle.com/javame/javacard/javacard.html">http://docs.oracle.com/javame/javacard/javacard.html</a>

[14] 3GPP TS 23.032: "Universal Geographical Area Description (GAD)".

[15] IEC 61162-1: "Maritime navigation and radio communication equipment and systems – Digital interfaces".

### 3 Definitions and abbreviations

#### 3.1 Definitions

For the purposes of the present document, the terms and definitions defined in ETSI TS 102 241 [2] apply.

(U)SAT Framework: (U)SAT extension of the CAT Runtime Environment.

#### 3.2 Abbreviations

For the purposes of the present document, the abbreviations defined in ETSI TS 102 241 [2] apply.

## 4 Description

#### 4.0 Overview

This API is an extension to the ETSI TS 102 241 [2] "UICC API for Java Card<sup>TM</sup>" and requires the implementation of this specification.

The classes and interfaces described in this specification inherit functionality from the classes and interfaces specified in the "UICC API for Java  $Card^{TM}$ ".

The (U)SAT Framework described in this specification is an extension of the CAT Runtime Environment defined in ETSI TS 102 241 [2].

## 4.1 (U)SIM Java Card™ Architecture

The overall architecture of the (U)SIM API is based on the "UICC API for Java Card<sup>TM</sup>" defined in ETSI TS 102 241 [2].

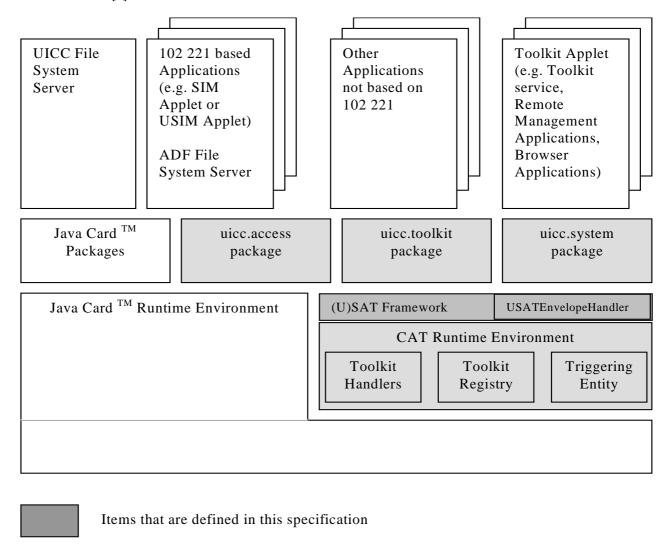


Figure 1: (U)SIM Java Card™ Architecture

## 5 File Access API

The (U)SIM file access API consists of the package *uicc.usim.access*. This package defines additional constants to those defined in the *uicc.access* package from ETSI TS 102 241 [2]. The access to the file system, defined in TS 51.011 [4] and TS 31.102 [3], is the one specified in ETSI TS 102 241 [2] via the UICC *FileView* Interface. When selecting a cyclic file the current record number is defined, this applies also to files located under DF<sub>GSM</sub>.

## 6 (U)SAT Framework

#### 6.0 Overview

The (U)SIM toolkit API consists of the *uicc.usim.toolkit* package for toolkit features defined in TS 31.111 [7] and TS 51.014 [8], and is based on the *uicc.toolkit* package defined in ETSI TS 102 241 [2].

### 6.1 Applet triggering

See ETSI TS 102 241 [2].

#### 6.1.1 Exception Handling

The following clause describes the handling of exceptions by the (U)SAT Framework in addition to the behaviour defined in ETSI TS 102 241 [2] for the CAT Runtime Environment.

If an Applet triggered by EVENT\_FORMATTED\_SMS\_PP\_ENV event throws an ISOException with the reason code (0x6FXX), it shall be sent to the terminal.

Other Exceptions shall not be propagated to the terminal.

#### 6.2 Definition of Events

The following events can trigger a Toolkit Applet in addition to the events defined in ETSI TS 102 241 [2], all short values are reserved in ETSI TS 102 241 [2]:

**Event Name** Reserved short value 2 EVENT\_FORMATTED\_SMS\_PP\_ENV EVENT\_FORMATTED\_SMS\_PP\_UPD 3 EVENT\_UNFORMATTED\_SMS\_PP\_ENV 4 EVENT\_UNFORMATTED\_SMS\_PP\_UPD 5 EVENT\_UNFORMATTED\_SMS\_CB 6 EVENT\_MO\_SHORT\_MESSAGE\_CONTROL\_BY\_NAA 10 EVENT\_FORMATTED\_SMS\_CB 24 EVENT\_EVENT\_DOWNLOAD\_IWLAN\_ACCESS\_STATUS 30 EVENT\_EVENT\_DOWNLOAD\_NETWORK\_REJECTION 31 EVENT\_EVENT\_DOWNLOAD\_CSG\_CELL\_SELECTION 33 EVENT\_FORMATTED\_USSD 121 EVENT\_UNFORMATTED\_USSD 122 EVENT\_EVENT\_DOWNLOAD\_IMS\_REGISTRATION 119 EVENT\_EVENT\_DOWNLOAD\_INCOMING\_IMS\_DATA 120

Table 1: (U)SAT event list

EVENT\_FORMATTED\_SMS\_PP\_ENV, EVENT\_UNFORMATTED\_SMS\_PP\_ENV, EVENT\_FORMATTED\_SMS\_PP\_UPD, EVENT\_UNFORMATTED\_SMS\_PP\_UPD

There are two ways for a card to receive a Short Message Point to Point: via an ENVELOPE(SMS-PP DOWNLOAD) APDU as defined in TS 31.111 [7] and TS 51.014 [8] or an UPDATE RECORD EF<sub>SMS</sub> APDU as defined in TS 31.102 [3] and TS 51.011 [4]. The EF<sub>SMS</sub> can be either located under the DF<sub>Telecom</sub> or under any ADF as defined in TS 31.102 [3] and TS 51.011 [4].

The received Short Message may be:

- formatted according to TS 31.115 [9] or an other protocol to identify explicitly the toolkit applet for which the message is sent;
- unformatted (e.g. a toolkit applet specific protocol ) then the (U)SAT Framework will pass this data to all registered toolkit applets.

When the Short Message is received as Concatenated Short Messages as defined in TS 23.040 [10], it is the responsibility of the (U)SAT Framework to link single Short Messages together to re – assemble the original message before any further processing. The original Short Message shall be placed in one SMS TPDU TLV (with TP-UDL field coded on one octet) included in the *USATEnvelopeHandler*. The concatenation control headers used to re-assemble the short messages in the correct order shall not be present in the SMS TPDU. The TP-elements of the SMS TPDU and the Address (TS – Service-Centre-Address) shall correspond to the ones in the last received Short Message (independently of the Sequence number of Information-Element-Data).

The minimum requirement for the (U)SAT Framework is to process a concatenated short message with the following properties:

- the Information Element Identifier is equal to the 8-bit reference number.
- it contains uncompressed 8 bit data or uncompressed UCS2 data.

#### EVENT\_FORMATTED\_SMS\_PP\_ENV

Upon reception of a TS 31.115 [9] formatted Short Message Point to Point (Single or Concatenated) via an ENVELOPE, the (U)SAT Framework shall:

- verify the security of the Short Message as per TS 31.115 [9];
- trigger the toolkit applet registered with the corresponding TAR;
- take the optional Application Data posted by the triggered toolkit applet if present;
- secure and send the response packet using SMS-DELIVER-REPORT or SMS-SUBMIT.

When the toolkit applet is triggered, data shall be provided deciphered.

#### EVENT UNFORMATTED SMS PP ENV

Upon reception of an unformatted Short Message Point to Point (Single or Concatenated) via an ENVELOPE, the (U)SAT Framework shall trigger all the Toolkit Applets registered to this event.

NOTE: As a consequence of the *EnvelopeResponseHandler* availability rules specified in clause 6.6, only the first triggered toolkit applet is guaranteed to be able to send back a response.

#### $EVENT\_FORMATTED\_SMS\_PP\_UPD$

Upon reception of a TS 31.115 [9] formatted Short Message Point to Point (Single or Concatenated) via an UPDATE RECORD EF<sub>SMS</sub>, the (U)SAT Framework shall:

- update the  $EF_{SMS}$  file with the data received, it is then up to the receiving toolkit applet to change the SMS stored in the file (i.e. the toolkit applet need to have access to the  $EF_{SMS}$  file)
- verify the security of the Short Message as per TS 31.115 [9];
- convert the UPDATE RECORD  $\mathsf{EF}_{\mathsf{SMS}}$  APDU into a COMPREHENSION TLV List;
- trigger the toolkit applet registered with the corresponding TAR;

When the toolkit applet is triggered, data shall be provided deciphered.

The *USATEnvelopeHandler* provided to the applet shall:

- return BTAG\_SMS\_PP\_DOWNLOAD to the getTag() method call;
- return the Comprehension TLV list length to the *getLength()* method call;

The USATEnvelopeHandler provided to the applet shall contain the following COMPREHENSION TLVs:

- Device Identities TLV

The Device Identities Comprehension TLV is used to store the information about the absolute record number in the  $EF_{SMS}$  file and the value of the  $EF_{SMS}$  record status byte, and is formatted as defined below:

Device identities Comprehension TLV
Device Identities tag
length = 02
Absolute Record Number
Record Status

With the absolute record number the toolkit applet can update  $EF_{SMS}$  in absolute mode to change the received SMS (e.g. in a readable text).

For Concatenated Short Message the Absolute Record Number and the Record Status will correspond to the last UPDATE RECORD EF<sub>SMS</sub> APDU received.

- Address TLV

The value is the TS-Service-Centre-Address (RP-OA) of the last UPDATE RECORD EF<sub>SMS</sub> APDU.

- SMS TPDU TLV

The value is the SMS TPDU provided deciphered and reassembled, if needed

- AID TLV

The AID comprehension TLV is present only if the  $EF_{SMS}$  file updated is under an ADF. The value is the AID of the ADF as defined TS 31.111 [7].

The order of the TLVs given in the USATEnvelopeHandler is not specified,

NOTE: To get each COMPREHENSION TLV, it is recommended that the applet uses the *ViewHandler.findTLV()* methods

EVENT UNFORMATTED SMS PP UPD

Upon reception of an unformatted Short Message Point to Point (Single or Concatenated) via UPDATE RECORD  $EF_{SMS}$  APDU, the (U)SAT Framework shall:

- update the EF<sub>SMS</sub> file with the data received;
- convert the UPDATE RECORD EF<sub>SMS</sub> APDU data into a COMPREHENSION TLV List (as described for EVENT\_FORMATTED\_SMS\_PP\_UPD);
- trigger all the Toolkit Applets registered to this event.

The content of EF<sub>SMS</sub> may have been modified by a previously triggered Toolkit Applet..

#### EVENT\_FORMATTED\_SMS\_CB, EVENT\_UNFORMATTED\_SMS\_CB

The received Cell Broadcast Message, via an ENVELOPE (CELL BROADCAST DOWNLOAD) APDU as defined in TS 31.111 [7] and TS 51.014 [8] and, can be either:

- formatted according to TS 31.115 [9] or an other protocol to identify explicitly the toolkit applet for which the message is sent;
- unformatted (e.g. using a toolkit applet specific protocol), then the (U)SAT Framework will pass this data to all registered toolkit applets.

When the Cell Broadcast Message is received as multiple pages as defined in TS 23.041 [5], it is the responsibility of the (U)SAT Framework to link single pages together to re-assemble the original message before any further processing. The original Cell Broadcast message shall be placed in one Cell Broadcast page TLV included in the *USATEnvelopeHandler*. The message parameters shall correspond to the ones in the last received Cell Broadcast page (independently of the Page Parameter).

#### $EVENT\_FORMATTED\_SMS\_CB$

Upon reception of a TS 31.115 [9] formatted Cell Broadcast message, the (U)SAT Framework shall:

- verify the security of the Cell Broadcast message as per TS 31.115 [9];
- trigger the toolkit applet registered with the corresponding TAR;

When the toolkit applet is triggered, data shall be provided deciphered.

EVENT\_UNFORMATTED\_SMS\_CB

Upon reception of an unformatted Cell Broadcast message, the (U)SAT Framework shall trigger all the Toolkit Applets registered to this event.

EVENT\_MO\_SHORT\_MESSAGE\_CONTROL\_BY\_NAA

Upon reception of an ENVELOPE (MO SHORT MESSAGE CONTROL defined in TS 51.014 [8] and TS 31.111 [7]) APDU as defined in TS 31.101 [6] and TS 51.011 [4] the (U)SAT Framework shall trigger the Toolkit Applet registered to this event. The (U)SAT Framework shall not allow more than one Toolkit Applet to be registered to this event at a time(e.g. if a Toolkit Applet is registered to this event but not in selectable state the (U)SAT Framework shall not allow another Toolkit Applet to register to this event).

EVENT\_FORMATTED\_USSD, EVENT\_UNFORMATTED\_USSD

The received USSD String, via an ENVELOPE (USSD Data Download) APDU as defined in TS 31.111 [7], may be:

- formatted according to TS 31.115 [9] or an other protocol to identify explicitly the toolkit applet for which the message is sent;
- unformatted (e.g. a toolkit applet specific protocol) then the (U)SAT Framework will pass this data to all registered toolkit applets.

When the USSD Message is received as concatenated as defined in TS 31.115 [9], it is the responsibility of the (U)SAT Framework to link single USSD Messages together to re-assemble the original message before any further processing. The original USSD message shall be placed in one USSD String TLV included in the *USATEnvelopeHandler*. The USSD String parameters (DCS, PFI, CCF) shall correspond to the ones in the last received USSD String (independently of the CCF Sequence number).

EVENT FORMATTED USSD

Upon reception of a TS 31.115 [9] formatted USSD Message via an ENVELOPE, the (U)SAT Framework shall:

- verify the security of the USSD Message as per TS 31.115 [9];
- trigger the toolkit applet registered with the corresponding TAR;
- take the optional Application Data posted by the triggered toolkit applet if present;
- secure and send the response packet.

When the toolkit applet is triggered, data shall be provided deciphered.

#### EVENT UNFORMATTED USSD

Upon reception of an unformatted USSD String via an ENVELOPE, the (U)SAT Framework shall trigger all the Toolkit Applets registered to this event.

Note: As a consequence of the *EnvelopeResponseHandler* availability rules specified in clause 6.6, only the first triggered toolkit applet is guaranteed to be able to send back a response.

EVENT EVENT DOWNLOAD IWLAN ACCESS STATUS

EVENT\_EVENT\_DOWNLOAD\_NETWORK\_REJECTION

EVENT\_EVENT\_DOWNLOAD\_CSG\_CELL\_SELECTION

EVENT\_EVENT\_DOWNLOAD\_IMS\_REGISTRATION

EVENT\_EVENT\_DOWNLOAD\_INCOMING\_IMS\_DATA

Upon reception of an ENVELOPE (Event Download) APDU command as defined in TS 31.111 [7] the (U)SAT Framework shall trigger all the Toolkit applets registered to the corresponding event.

The following events defined in TS 31.111 [7] shall be raised upon reception of the corresponding APDU defined in either TS 51.011 [4] or TS 31.101 [6].

EVENT\_PROFILE\_DOWNLOAD

EVENT\_MENU\_SELECTION, EVENT\_MENU\_SELECTION\_HELP\_REQUEST

EVENT\_CALL\_CONTROL\_BY\_NAA

EVENT TIMER EXPIRATION

EVENT\_EVENT\_DOWNLOAD\_MT\_CALL

 $EVENT\_EVENT\_DOWNLOAD\_CALL\_CONNECTED$ 

 $EVENT\_EVENT\_DOWNLOAD\_CALL\_DISCONNECTED$ 

EVENT\_EVENT\_DOWNLOAD\_LOCATION\_STATUS

EVENT\_EVENT\_DOWNLOAD\_USER\_ACTIVITY

 $EVENT\_EVENT\_DOWNLOAD\_IDLE\_SCREEN\_AVAILABLE$ 

 $EVENT\_EVENT\_DOWNLOAD\_CARD\_READER\_STATUS$ 

EVENT\_STATUS\_COMMAND

EVENT\_EVENT\_DOWNLOAD\_LANGUAGE\_SELECTION

EVENT\_EVENT\_DOWNLOAD\_BROWSER\_TERMINATION

 $EVENT\_EVENT\_DOWNLOAD\_DATA\_AVAILABLE$ 

EVENT\_EVENT\_DOWNLOAD\_CHANNEL\_STATUS

EVENT\_EVENT\_DOWNLOAD\_ACCESS\_TECHNOLOGY\_CHANGE

EVENT\_EVENT\_DOWNLOAD\_DISPLAY\_PARAMETER\_CHANGED

EVENT EVENT DOWNLOAD LOCAL CONNECTION

EVENT\_EVENT\_DOWNLOAD\_NETWORK\_SEARCH\_MODE\_CHANGE

EVENT\_EVENT\_DOWNLOAD\_BROWSING\_STATUS

 $EVENT\_PROACTIVE\_HANDLER\_AVAILABLE$ 

EVENT\_EXTERNAL\_FILE\_UPDATE

 $EVENT\_FIRST\_COMMAND\_AFTER\_ATR$ 

EVENT\_UNRECOGNIZED\_ENVELOPE

## 6.3 Registration

A Toolkit Applet shall register to events described in 6.2 as defined in ETSI TS 102 241 [2].

Constants for these events are available in *uicc.usim.toolkit.ToolkitConstants* interface in Annex A.

The *uicc.toolkit.ToolkitException* TAR\_NOT\_DEFINED shall be thrown if a Toolkit Applet has no TAR defined and registers to events: EVENT\_FORMATTED\_SMS\_PP\_ENV, EVENT\_FORMATTED\_SMS\_PP\_UPD, EVENT\_FORMATTED\_SMS\_CB, EVENT\_FORMATTED\_USSD.

The *uicc.toolkit.ToolkitException*.EVENT\_ALREADY\_REGISTERED shall be thrown if there is another Toolkit Applet already registered to *EVENT\_MO\_SHORT\_MESSAGE\_CONTROL\_BY\_NAA*.

## 6.4 Proactive command handling

There is no extension of the CAT Runtime Environment by the (U)SAT Framework for proactive command handling.

#### 6.5 Envelope response handling

For the events defined in the present document, the following rules apply:

A Toolkit Applet can post a response by using the *post()* method or the *postAsBERTLV()* method defined in ETSI TS 102 241 [2]. The (U)SAT Framework shall return the Status Word as defined in TS 31.111 [7] and in TS 51.014 [8] depending on the current NAA.

Case of EVENT MO SHORT MESSAGE CONTROL BY NAA:

- The rules defined for EVENT\_CALL\_CONTROL\_BY\_NAA in ETSI TS 102 241 [2] apply.

Case of EVENT\_UNFORMATTED\_SMS\_PP\_ENV:

- See ETSI TS 102 241 [2].

Case of EVENT\_FORMATTED\_SMS\_PP\_ENV:

- When the *post()* or the *postAsBERTLV()* method is invoked, the (U)SAT Framework shall, according to bit 6 of the second octet of the SPI defined in TS 31.115 [9], build a SMS-DELIVER-REPORT or a SMS-SUBMIT.

In case of a SMS-DELIVER-REPORT and if the post response is too large to be contained in a SMS-DELIVER-REPORT, the (U)SAT Framework shall issue Response Packets as defined in TS 31.115 [9].

In case of a SMS-DELIVER-REPORT, the (U)SAT Framework shall return the Status Word for RP-ACK or RP-ERROR as defined in TS 31.111 [7] and in TS 51.014 [8] depending on the current NAA.

In case of SMS-SUBMIT the boolean value method parameter shall be ignored by the (U)SAT Framework. If the SMS-SUBMIT is to be used, the (U)SAT Framework shall build and issue a Send Short Message proactive command as defined in TS 31.111 [7] and in TS 51.014 [8] depending on the current NAA.

Case of EVENT\_FORMATTED\_USSD:

- When the *post()* or the *postAsBERTLV()* method is invoked, the (U)SAT Framework shall build a USSD String to be sent back in the Return Result Component contained in the subsequent Facility message. In that case the (U)SAT Framework shall return the Status Word as defined in TS 31.111 [7].

Case of EVENT\_UNFORMATTED\_USSD:

- See ETSI TS 102 241 [2].

## 6.6 System Handler management

For the handler management of the *ProactiveHandler*, the *ProactiveResponseHandler*, the *EnvelopeHandler* and the *EnvelopeResponseHandler*, the rules defined in ETSI TS 102 241 [2] apply.

USATEnvelope Handler:

The single system instance of the *USATEnvelopeHandler* and the single system instance of the *EnvelopeHandler* are two distinct objects instances.

- When available the *USATEnvelopeHandler* shall remain available and its content shall remain unchanged from the invocation to the termination of the *processToolkit()* method.
- The TLV List provided in the *USATEnvelopeHandler* are the same as in the *EnvelopeHandler*.
- The handler availability of the *USATEnvelopeHandler* is the same handler availability as the *EnvelopeHandler* including all the events defined in ETSI TS 102 241 [2].

The following table describes the minimum availability of the handlers for all the events at the invocation of the *processToolkit()* method of the Toolkit Applet. The rules described in this table apply in addition to the rules described in "UICC API for Java Card<sup>TM</sup>"

Table 2: Handler availability for each event

EVENT_	Reply busy allowed	EnvelopeHandler / USATEnvelopeHandler	EnvelopeResponse Handler	Nb of triggered / registrered Applet
_FORMATTED_SMS_PP_ENV	Y (see Note 1)	Y	Υ	1 / n (per TAR)
_FORMATTED_SMS_PP_UPD	N	Υ	N	1 / n (per TAR)
_UNFORMATTED_SMS_PP_ENV	Υ	Υ	Υ	n/n
_UNFORMATTED_SMS_PP_UPD	N	Υ	N	n/n
_FORMATTED_SMS_CB	Υ	Υ	Ν	1/n (per TAR)
_UNFORMATTED_SMS_CB	Υ	Υ	N	n/n
_MO_SHORT_MESSAGE_CONTROL_BY_NAA	N	Υ	Υ	1/1
_FORMATTED_USSD	Y	Υ	Υ	1 / n (per TAR)
UNFORMATTED_USSD	Υ	Υ	Υ	n/n
EVENT_DOWNLOAD				
_IWLAN_ACCESS_STATUS	Y	Υ	N	n/n
_NETWORK_REJECTION	Y	Y	N	n/n
_IMS_REGISTRATION	Y	Y	N	n/n
INCOMING_IMS_DATA	Y	Y	N	n/n

NOTE 1: The framework may reply busy and not trigger the toolkit applet if e.g. a PoR using SMS SUBMIT is required in the incoming message and a proactive session is ongoing.

## 6.7 (U)SAT Framework behaviour

The (U)SAT Framework is a (U)SAT extension of the CAT Runtime Environment as defined in ETSI TS 102 241 [2]. In addition, the (U)SAT Framework shall consider the EVENT\_EVENT\_DOWNLOAD\_\* defined in this specification when issuing the SET UP EVENT LIST system proactive command.

## 7 UICC toolkit applet

See ETSI TS 102 241 [2].

### 8 Geo Location API

The Geo Location API consists of the package *uicc.usim.geolocation*. This package defines services to allow an Applet to perform a geographical location operation, depending of the ME capabilities. When a geographical location operation is requested, the API will follow a defined way to choose either "Geographical Location Request" toolkit command or "Provide Local Information" toolkit command as defined in TS 31.111 [7] to determine the location information. The result is formatted using GAD shapes as defined in TS 23.032 [14] or in the format of NMEA sentences defined in IEC 61162-1 [15].

## Annex A (normative): Java Card™ (U)SIM API

The attached files "31130\_Annex\_A\_Java.zip", and "31130\_Annex\_A\_HTML.zip" contains source files and html documentation for the Java  $Card^{TM}$  (U)SIM API.

## Annex B (normative): Java Card™ (U)SIM API identifiers

The attached file "31130\_Annex\_B\_Export\_files.zip" contains the export files for the uicc.usim.\* package.

# Annex C (normative): (U)SIM API package version management

The following table describes the relationship between each TS 31.130 specification version and its packages AID and Major, Minor versions defined in the export files.

TS 31.130	uicc.usim.access package		uicc.usim.toolkit package		
	AID	Major,	AID	Major,	
		Minor		Minor	
	A0 00 00 00 87 10 05 FF FF FF FF 89 13	1.0	A0 00 00 00 87 10 05 FF FF FF FF 89 13	1.0	
	10 00 00		20 00 00		
7.1.0	A0 00 00 00 87 10 05 FF FF FF FF 89 13	1.0	A0 00 00 00 87 10 05 FF FF FF FF 89 13	1.1	
	10 00 00		20 00 00		
7.2.1	A0 00 00 00 87 10 05 FF FF FF FF 89 13	1.0	A0 00 00 00 87 10 05 FF FF FF FF 89 13	1.2	
	10 00 00		20 00 00		
10.1.0	A0 00 00 00 87 10 05 FF FF FF FF 89 13	1.0	A0 00 00 00 87 10 05 FF FF FF FF 89 13	1.7	
	10 00 00		20 00 00		
10.2.0	A0 00 00 00 87 10 05 FF FF FF FF 89 13	1.0	A0 00 00 00 87 10 05 FF FF FF FF 89 13	1.8	
	10 00 00		20 00 00		

TS 31.130	uicc.usim.geolocation		
	AID	Major, Minor	
	A000000087 1005 FFFF FFFF 89 13	1.0	
	300000		
13.1.0	A000000087 1005 FFFF FFFF 89 13	2.0	
	300000		

The package AID coding is defined in ETSI TS 101 220 [1]. The (U)SIM API packages' AID are not modified by changes to Major or Minor Version.

The Major Version shall be incremented if a change to the specification introduces byte code incompatibility with the previous version.

The Minor Version shall be incremented if a change to the specification does not introduce byte code incompatibility with the previous version.

The package *uicc.usim.access* contains only constants, therefore it may not be loaded on the UICC.

# Annex D (normative): USIM API jar files

The attached files "31130\_Annex\_D.jar", contains class files for the Java Card<sup>TM</sup> (U)SIM API.

# Annex E (informative): Change History

TP-27   TP-050023   T3-050187   O9	TSG / Date	TSG doc	WG doc	CR	Rev	Subject/Comment	New
Framework   Fram	TP-27					Generation of Version 7.0.0 based on version 6.2.0	
CT-28	TP-27	TP-050023	T3-050187	009		Framework	7.0.0
CT-28	CT-28	CP-050139	C6-050445	011			7.1.0
EVENT_UNFORMATTED_USSD	CT-28	CP-050139		013			7.1.0
CT-33	CT-28	CP-050141	C6-050420	014			7.1.0
Samex C.   Correction of misnamed constant   7.3.0	CT-29	CP-050340	C6-050691	016			7.2.0
CR-060546   CR-060791   022   1   Addition of missing event download LWLAN access status   CR-060546   CR-060791   022   Clarification on gelSportNessageLength() method when applied on 7.4.0   a SMS Cell Broadcast.   CR-07086   CR-07098   0024   1   Correction of the USAT EnvelopeHandlerSystem method prototype   CR-07087   0029   1   Correction of Annex A JAVA.zjp, package uicc usim.toolkit   7.5.0   CR-0707080   CR-070725   0029   1   Correction of Annex A JAVA.zjp, package uicc usim.toolkit   7.5.0   CR-0707290   CR-070290							
CT-34         CP-060546         C6-060791         0022         2         Clarification on getShortMessageLength() method when applied on a SMS Cell Broadcast.         7.4.0           CT-35         CP-070068         C6-060798         0024         1         Correction of the USATErvelopeHandlerSystem method prototype           CT-36         CP-070080         C6-070125         0029         2         Currection of Annex A JAVA-zip, package uicc usim.toolkit         7.5.0           CT-36         CP-070298         C6-070325         0029         2         Correction of reference to ETSI TS 102 2241         7.6.0           CT-38         CP-070298         C6-070323         0029         2         Correction of reference to ETSI TS 102 223 and ETSI TS 102 221         7.7.0           CT-42         CP-080908         C6-070554         0032         1         Introduction of references to ETSI TS 102 223 and ETSI TS 102 221         7.7.0           CT-43         CP-090196         C6-090345         0034         2         Introduction of references to ETSI TS 102 223 and ETSI TS 102 221         7.7.0           CT-45         CP-090196         C6-090345         0034         2         Introduction of on some some strain strains provided (2008-08)         7.7.1           CT-45         CP-090191         C6-0904943         0040         1         Re	CT-33	CP-060391		019	1	Correction of misnamed constant	7.3.0
CP-050548   C8-060798   0024   1   Correction of the USATE-welopeHandlerSystem method prototype					1		
C7-36   CP-070086   C8-070033   0027   1   Correction of Annex A JANA_ZIP, package uicc.usim.toolkit   7.5.0   C8-070326   C8-070327   0029   2   Update the reference to Lava Card 2 2.2   C7-36   CP-070298   C8-070257   0029   2   Correction of the reference to ETSI TS 102 224 and ETSI TS 102 221   C7-36   CP-070298   C8-070328   0029   2   Correction of references to ETSI TS 102 223 and ETSI TS 102 221   C7-36   CP-070844   C8-070564   0032   1   Introduction of new constant values for lies in the USIM application 7.7.0   C7-42   CP-080908   C8-080455   0034   2   Introduction of a geographical location discovery Java Card* API   8.0.0   C7-45   CP-090198   C8-090065   0035   1   Introduction of a geographical location discovery Java Card* API   8.0.0   C7-46   CP-090198   C8-090498   0042   1   Support of missing constant values for USIM files   8.1.0   C7-46   CP-091013   C8-090479   0045   1   Support of missing event   EVENT_COWNLOAD_NETWORK_REJECTION   8.3.0   C7-46   CP-091013   C8-090470   0045   1   Support of missing constant in USAT Terminal Profile   8.3.0   C7-47   CP-100185   C8-100091   0047   1   Addition of missing constant in USAT Terminal Profile   8.3.0   C7-47   CP-100198   C8-100091   0047   1   Addition of missing constant values   0049   2   Support of CSG cell discovery and CSG selection event   9.1.0   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.1   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.0   C7-52   CP-110905   0053   Correction to TAG_CSG_SELECTION_STATUS   10.0.0   C7-55   CP-120154   C8-120071   0060   Correction to constant value in TerminalProfile_java   10.2.0   C7-55   CP-120154   C8-120071   0060   Correction to constant value in TerminalProfile_java   10.2.0   C7-55   CP-120154   C8-120071   0060   Correction to constant value in TerminalProfile_java   10.3.0   C7-55   CP-120154   C8-120071   0060   Correction to constant value in TerminalProfile_java   10.3.0   C7-55   CP-120154   C8-120072   0061   C9-0200000000000	CT-34	CP-060546	C6-060791	0022	2	a SMS Cell Broadcast.	7.4.0
CT-36         CP-070302         C6-070257         0029         2         Update the reference to L3va Card 2.2.2         7.6.0           CT-36         CP-070298         C6-070323         0029         -         Correction of the reference to ETSI TS 102 221         7.6.0           CT-38         CP-070844         C6-070564         0032         1         Introduction of new constant values for liles in the USIM application of 100.2         7.7.1           CT-42         CP-080908         C6-080455         0034         2         Introduction of new constant values for liles in the USIM application of 100.2         7.7.1           CT-43         CP-090196         C6-090480         0032         1         Introduction of a geographical location discovery Java Card™API         8.1.0           CT-43         CP-090719         C6-090480         0042         1         Introduction of a geographical location discovery Java Card™API         8.1.0           CT-46         CP-090719         C6-090489         0042         1         Support of missing constant values for USIM files         8.3.0           CT-46         CP-091013         C6-090470         0045         1         Support of missing constant values for USIM Terminal Profile         8.3.0           CT-46         CP-091013         C6-100690         0045         1         Supp				0024	1		
CT-36	CT-35	CP-070068					7.5.0
CP-070288   C6-070323   0029   Correction of references to ETSI TS 102 221 and ETSI TS 102 221					2		
CP-38         CP-070844         C6-070564         0032         1         Introduction of new constant values for files in the USIM application 7.7.0         7.7.1           CT-42         CP-080908         C6-080455         0034         2         Introduction of a geographical location discovery Java Card™ API         8.0.0           CT-45         CP-090196         C6-090033         0035         1         Introduction of missing constant values for USIM files         8.1.0           CT-46         CP-09078         C6-090430         0040         1         References update         8.3.0           CT-46         CP-09078         C6-090430         0040         1         References update         8.3.0           CT-46         CP-091013         C6-090469         0042         1         Support of missing event         8.3.0           CT-47         CP-100185         C6-100091         0047         1         Support of missing constants in USAT Terminal Profile         8.3.0           CT-47         CP-100198         C6-100091         0047         1         Addition of missing constants values         9.1.0           CT-47         CP-100198         C6-100091         0044         2         Support of missing constants values         9.1.1           CT-47         CP-100198	CT-36				-		7.6.0
Annex A and B attachments provided (2008-08)   7.7.1	OT 00				-		770
CT-42         CP-080908         C6-080455         0034         2         Introduction of a geographical location discovery Java Card™ API         8.0.0           CT-43         CP-090719         C6-0900334         0039         2         Alignment of constants with 31.111         8.2.0           CT-46         CP-090718         C6-090493         0040         1         References update         8.3.0           CT-46         CP-091013         C6-090493         0042         1         Support of missing event EVENT_DOWNLOAD_NETWORK_REJECTION         8.3.0           CT-46         CP-091013         C6-090470         0045         1         Support of missing constants in USAT Terminal Profile         8.3.0           CT-47         CP-100188         C6-100099         0047         1         Support of missing constant values         9.1.0           CT-47         CP-100198         C6-100086         0048         2         Support of cSG cell discovery and CSG selection event         9.1.0           CT-47         CP-100198         C6-100086         0048         2         Support of CSG cell discovery and CSG selection event         9.1.0           CT-47         CP-100198         C6-100008         0049         2         Support of CSG cell discovery and CSG selection event on the cover on the cover on the cover on the cover on the c	C1-38	CP-070844	C6-070564	0032	1		
CT-45	CT 42	CD 000000	C6 090455	0024	2		
CT-46         CP-090719         C6-090334         0039         2         Alignment of constants with 31.111         8.2.0           CT-46         CP-090788         C6-090493         0040         1         References update         8.3.0           CT-46         CP-091013         C6-090409         0042         1         Support of missing event EVENT_DOWNLOAD_NETWORK_REJECTION         8.3.0           CT-46         -         -         -         Upgrade of the specification to Rel-9         9.0.0           CT-47         CP-100198         C6-100091         0047         1         Addition of missing constant values         9.1.0           CT-47         CP-100198         C6-100080         0048         2         Support of CSG cell discovery and CSG slection event         9.1.0           CT-47         CP-100198         C6-100600         0046         1         Upgrade of the specification to Rel-9         9.1.0           CT-50         CP-100198         C6-100080         0049         2         Support of CSG cell discovery and CSG selection event         9.1.0           CT-50         CP-100836         C6-100600         0046         1         Upgrade of the specification to Rel-10         1           CT-50         CP-100836         C6-100600         0046         1 </td <td></td> <td></td> <td>1</td> <td></td> <td>-</td> <td></td> <td></td>			1		-		
CT-46         CP-090788         C6-090433         0040         1         References update         8.3.0           CT-46         CP-091013         C6-090469         0042         1         Support of missing event EVENT_DVNLOAD_NETWORK_REJECTION         8.3.0           CT-46         CP-091013         C6-090470         0045         1         Support of missing constants in USAT Terminal Profile         8.3.0           CT-47         CP-100185         C6-100091         0047         1         Addition of missing constant values         9.1.0           CT-47         CP-100198         C6-100086         0048         2         Support of CSG cell discovery and CSG selection event         9.1.0           CT-47         CP-100198         C6-100108         0049         2         Support of CSG cell discovery and CSG selection event         9.1.0           CT-50         CP-100986         C6-100600         0046         1         Update reference to "Java Card 3.0.1 Classic" reference         9.2.0           SP-51         -         -         -         Upgrade of the specification to Rel-10         10.0.0           CT-52         CP-110905         -         0050         1         Addition of events and reservation of constant values for Java API         10.1.0           CT-54         CP-110905				_	_		
CT-46         CP-091013         C6-090469         0042         1         Support of missing event EVENT_DOWNLOAD_NETWORK_REJECTION         8.3.0           CT-46         CP-091013         C6-090470         0045         1         Support of missing constants in USAT Terminal Profile         8.3.0           CT-47         CP-100185         C6-100091         0047         1         Addition of missing constants in USAT Terminal Profile         9.0.0           CT-47         CP-100198         C6-100086         0048         2         Supporting operator controlled CSG list for H(e)NB         9.1.0           CT-47         CP-100198         C6-100080         0049         2         Support of CSG cell discovery and CSG selection event         9.1.0           CT-47         CP-100918         C6-100108         0049         2         Support of CSG cell discovery and CSG selection event         9.1.0           CT-47         CP-100836         C6-100000         0046         1         Update reference to "Java Card 3.0.1 Classic" reference         9.2.0           CT-50         CP-110805         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -							
CT-46   CP-091013   C6-090470   0045   1   Support of missing constants in USAT Terminal Profile   8.3.0   CT-47   CP-100185   C6-100091   0047   1   Addition of missing constant values   9.1.0   CT-47   CP-100198   C6-100086   0048   2   Supporting operator controlled CSG list for H(e)NB   9.1.0   CT-47   CP-100198   C6-10018   0049   2   Support of CSG cell discovery and CSG selection event   9.1.0   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.1   sheet   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.0   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.0   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.0   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.0   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.0   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.0   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.0   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.0   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.0   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.0   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.0   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.0   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.0   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.0   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.0   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.0   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.0   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.0   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.0   Spec reissued as v9.1.1 due to a bad version number on the cover   9.1.0   Spec reissued as v9.1.1 due to a bad version number on			1		-	Support of missing event	
CT-46   -							
CT-47         CP-100185         C6-100091         0047         1         Addition of missing constant values         9.1.0           CT-47         CP-100198         C6-100008         0048         2         Supporting operator controlled CSG list for H(e)NB         9.1.0           CT-47         CP-100198         C6-100108         0049         2         Support of CSG cell discovery and CSG selection event         9.1.0           CT-50         CP-100836         C6-100600         0046         1         Update reference to "Java Card 3.0.1 Classic" reference         9.2.0           SP-51         -         -         Upgrade of the specification to Rel-10         10.0.0           CT-52         CP-110507         -         0050         1         Addition of events and reservation of constant values for Java API         10.1.0           CT-54         CP-110905         -         0053         -         Correction to TAG CSG SELECTION STATUS         10.2.0           CT-55         CP-120154         C6-120070         0059         Correction to constant value in TerminalProfile.java         10.3.0           CT-55         CP-120154         C6-120070         0059         Correction to constant value in TerminalProfile.java         10.3.0           CT-56         CP-120154         C6-120070         0059		CP-091013	C6-090470	0045	1		
CT-47		-	-	-	-		
CT-47   CP-100198   C6-100108   0049   2   Support of CSG cell discovery and CSG selection event   9.1.0							
Spec reissued as v9.1.1 due to a bad version number on the cover sheet   CT-50   CP-100836   C6-100600   0046   1   Update reference to "Java Card 3.0.1 Classic" reference   9.2.0   SP-51   -					-		
Sheet	C1-47	CF-100196	C6-100106	0049			
SP-51							3.1.1
CT-52         CP-110907         -         0050         1         Addition of events and reservation of constant values for Java API         10.1.0           CT-54         CP-110905         -         0053         -         Correction to TAG_CSG_SELECTION_STATUS         10.2.0           CT-54         CP-110905         -         0054         -         Correction to constant value in TerminalProfile.java         10.2.0           CT-55         CP-120154         C6-120071         0060         Correction to Constant value in TerminalProfile.java         10.3.0           CT-55         CP-120154         C6-120093         0058         1         Update the reference to ETSI TS 102 241         10.3.0           CT-56         CP-120154         C6-120093         0058         1         Update the reference to ETSI TS 102 241         10.3.0           CT-56         CP-120393         C6-120274         0061         1         Correct implementation of CR 0059 for TAG_CSG_SELECTION_STATUS_N         10.4.0           CT-56         CP-120392         C6-120272         0062         1         Adding a constant value in USATTerminalProfile.java for the indication of IMS support         10.4.0           CT-56         CP-120393         C6-120273         0063         1         Adding constant value in USATTerminalProfile.java for missing file indication of	CT-50	CP-100836	C6-100600	0046	1	Update reference to "Java Card 3.0.1 Classic" reference	9.2.0
CT-54         CP-110905         -         0053         -         Correction to TAG_CSG_SELECTION_STATUS         10.2.0           CT-54         CP-110905         -         0054         -         Correction to constant value in TerminalProfile.java         10.2.0           CT-55         CP-120154         C6-120071         0060         Correction to TAG_CSG_SELECTION_STATUS         10.3.0           CT-55         CP-120154         C6-120071         0060         Correction to constant value in TerminalProfile.java         10.3.0           CT-55         CP-120154         C6-120093         0058         1         Update the reference to ETSI TS 102 241         10.3.0           CT-56         CP-120393         C6-120274         0061         1         Correct implementation of CR 0059 for TAG_CSG_SELECTION_STATUS_N         10.4.0           CT-56         CP-120392         C6-120272         0062         1         Adding a constant value in USATTerminalProfile.java for the indication of IMS support         10.4.0           CT-56         CP-120393         C6-120273         0063         1         Adding constant values in USIMConstants.java for missing file identifiers         10.4.0           SP-57         Automatic upgrade to Rel-11         11.0.0           SP-65         Automatic upgrade to Rel-12         12.0.0		-	-	-	-	Upgrade of the specification to Rel-10	10.0.0
CT-54         CP-110905         -         0054         -         Correction to constant value in TerminalProfile.java         10.2.0           CT-55         CP-120154         C6-120070         0059         Correction to TAG_CSG_SELECTION_STATUS         10.3.0           CT-55         CP-120154         C6-120071         0060         Correction to constant value in TerminalProfile.java         10.3.0           CT-55         CP-120154         C6-120093         0058         1         Update the reference to ETSI TS 102 241         10.3.0			-		1		
CT-55         CP-120154         C6-120070         0059         Correction to TAG_CSG_SELECTION_STATUS         10.3.0           CT-55         CP-120154         C6-120071         0060         Correction to constant value in TerminalProfile.java         10.3.0           CT-55         CP-120154         C6-120093         0058         1         Update the reference to ETSI TS 102 241         10.3.0           CT-56         CP-120393         C6-120274         0061         1         Correct implementation of CR 0059 for TAG_CSG_SELECTION_STATUS_N         10.4.0           CT-56         CP-120392         C6-120272         0062         1         Adding a constant value in USATTerminalProfile.java for the indication of IMS support         10.4.0           CT-56         CP-120393         C6-120273         0063         1         Adding constant values in USIMConstants.java for missing file identifiers         10.4.0           SP-57         Automatic upgrade to Rel-11         11.0.0         11.0.0           SP-65         Automatic upgrade to Rel-12         12.0.0           CT-70         CP-150827         C6-150606         0071         Missing rule for SMS_PP envelope response handling         13.0.0           CT-73         CP-160550         C6-150416         0072         5         Geo Location API corrections         13.1.0			-		-		
CT-55         CP-120154         C6-120071         0060         Correction to constant value in TerminalProfile.java         10.3.0           CT-55         CP-120154         C6-120093         0058         1         Update the reference to ETSI TS 102 241         10.3.0           Editorial version correcting the three lines above         10.3.1           CT-56         CP-120393         C6-120274         0061         1         Correct implementation of CR 0059 for TAG_CSG_SELECTION_STATUS_N         10.4.0           CT-56         CP-120392         C6-120272         0062         1         Adding a constant value in USAITerminalProfile.java for the indication of IMS support         10.4.0           CT-56         CP-120393         C6-120273         0063         1         Adding constant values in USIMConstants.java for missing file identifiers         10.4.0           SP-57         Automatic upgrade to Rel-11         11.0.0           SP-65         Automatic upgrade to Rel-12         12.0.0           CT-70         CP-150827         C6-150606         0071         Missing rule for SMS_PP envelope response handling         13.0.0           CT-73         CP-160550         C6-150416         0072         5         Geo Location API corrections         Note 1: known problem within the change request, to be fixed at CT-74         Note 2: in the CR, the body			-		-		
CT-55         CP-120154         C6-120093         0058         1         Update the reference to ETSI TS 102 241         10.3.0							
Editorial version correcting the three lines above   10.3.1					4		
CT-56         CP-120393         C6-120274         0061         1         Correct implementation of CR 0059 for TAG_CSG_SELECTION_STATUS_N         10.4.0           CT-56         CP-120392         C6-120272         0062         1         Adding a constant value in USATTerminalProfile.java for the indication of IMS support         10.4.0           CT-56         CP-120393         C6-120273         0063         1         Adding constant values in USIMConstants.java for missing file identifiers         10.4.0           SP-57         Automatic upgrade to Rel-11         11.0.0           SP-65         Automatic upgrade to Rel-12         12.0.0           CT-70         CP-150827         C6-150606         0071         Missing rule for SMS_PP envelope response handling         13.0.0           CT-73         CP-160550         C6-150416         0072         5         Geo Location API corrections         13.1.0           Note 1: known problem within the change request, to be fixed at CT-74         CT-74         Note 2: in the CR, the body of the CR and the attached annexes are not identical. The body of the CR contains the correct text and is implemented.           CT-75         CP-170166         C6-150598         0073         1         Geo Location API format alignment         13.2.0           CT-75         CP-170166         C6-170058         0075         Geolocalization API d		CP-120154	<u>C6-120093</u>	0058	1		
TAG_CSG_SELECTION_STATUS_N		CD 120202	C6 120274	0061	1		
Indication of IMS support   Indication of IMS support   CT-56   CP-120393   C6-120273   O063   1   Adding constant values in USIMConstants.java for missing file identifiers   10.4.0   Identifiers   Identifiers						TAG_CSG_SELECTION_STATUS_N	
SP-57			C6-120272	0062	1	indication of IMS support	
SP-65   Automatic upgrade to Rel-12   12.0.0	CT-56	CP-120393	C6-120273	0063	1		10.4.0
CT-70         CP-150827         C6-150606         0071         Missing rule for SMS_PP envelope response handling         13.0.0           CT-73         CP-160550         C6-150416         0072         5         Geo Location API corrections						Automatic upgrade to Rel-11	11.0.0
CT-73         CP-160550         C6-150416         0072         5         Geo Location API corrections	SP-65						12.0.0
Note 1: known problem within the change request, to be fixed at CT-74   Note 2: in the CR, the body of the CR and the attached annexes are not identical. The body of the CR contains the correct text and is implemented.    CT-74   CP-160788   C6-150598   0073   1   Geo Location API format alignment   13.2.0			C6-150606	0071			
CT-74   Note 2: in the CR, the body of the CR and the attached annexes are not identical. The body of the CR contains the correct text and is implemented.    CT-74   CP-160788   C6-150598   0073   1   Geo Location API format alignment   13.2.0	CT-73	CP-160550	C6-150416	0072	5		13.1.0
Note 2: in the CR, the body of the CR and the attached annexes are not identical. The body of the CR contains the correct text and is implemented.    CT-74							
are not identical. The body of the CR contains the correct text and is implemented.							
CT-74         CP-160788         C6-150598         0073         1         Geo Location API format alignment         13.2.0           CT-75         CP-170166         C6-170058         0075         Geolocalization API document alignment         13.3.0           SA-75         Automatic upgrade to Rel-14         14.0.0           CT-78         CP-173150         C6-170657         0077         -         Update of reference to ETSI TS 102 241         14.1.0           CT-78         CP-173150         C6-170658         0078         -         Editorial change of Java Card reference         14.1.0						are not identical. The body of the CR contains the correct text and	
CT-75         CP-170166         C6-170058         0075         Geolocalization API document alignment         13.3.0           SA-75         Automatic upgrade to Rel-14         14.0.0           CT-78         CP-173150         C6-170657         0077         - Update of reference to ETSI TS 102 241         14.1.0           CT-78         CP-173150         C6-170658         0078         - Editorial change of Java Card reference         14.1.0	CT 74	CD 160700	C6 150500	0072	1		12 2 0
SA-75         Automatic upgrade to Rel-14         14.0.0           CT-78         CP-173150         C6-170657         0077         -         Update of reference to ETSI TS 102 241         14.1.0           CT-78         CP-173150         C6-170658         0078         -         Editorial change of Java Card reference         14.1.0					1		
CT-78         CP-173150         C6-170657         0077         -         Update of reference to ETSI TS 102 241         14.1.0           CT-78         CP-173150         C6-170658         0078         -         Editorial change of Java Card reference         14.1.0		CP-170106	C0-170058	0075	-		
CT-78		CP-173150	C6-170657	0077	<del> </del>	10	
					-		
		2		22.0		Added missing attachments	14.1.1

# History

Document history					
V14.0.0	April 2017	Publication			
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