

**3GPP TSG CN Plenary Meeting #17
4 - 6 September 2002, Biarritz, FRANCE**

NP-020425

Source: CN5 (OSA)
Title: Rel-4 CRs 29.198-05 OSA API Part 5: Generic user interaction
Agenda item: 7.10
Document for: APPROVAL

Doc-1st-Level	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Doc-2nd-Level	Workitem
NP-020425	29.198-05	016	-	Rel-4	Correction on use of NULL in User Interaction API	F	4.4.0	N5-020616	OSA1
NP-020425	29.198-05	017	-	Rel-4	Correction to TpUIInfo data type to support binary data for SMS services	F	4.4.0	N5-020619	OSA1

CHANGE REQUEST

⌘ **29.198-05 CR 016** ⌘ rev **-** ⌘ Current version: **4.4.0** ⌘

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

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘	Correction on use of NULL in User Interaction API		
Source:	⌘	CN5		
Work item code:	⌘	OSA1	Date:	⌘ 12/07/2002
Category:	⌘	F	Release:	⌘ REL-4
		<i>Use <u>one</u> of the following categories:</i> 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.		<i>Use <u>one</u> of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)

Reason for change:	⌘	OMG IDL does not support NULL as a valid value for a data type; attempts to send a null value result in a marshalling exception and a gateway can never receive the call.
Summary of change:	⌘	TpUICollectCriteria data definition corrected to use an empty string rather than NULL, in description for field, EndSequence
Consequences if not approved:	⌘	Failure to correct the API shall result in vendor specific interpretation and interoperability issues.

Clauses affected:	⌘	11.9;
Other specs affected:	⌘	<input type="checkbox"/> Other core specifications ⌘ <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications
Other comments:	⌘	Mirror Rel-5 CR 29.198-05 in N5-020748.

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.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.

***** START OF FIRST CHANGE *****

11.9 TpUICollectCriteria

Defines the Sequence of Data Elements that specify the additional properties for the collection of information, such as the end character, first character timeout, inter-character timeout, and maximum interaction time.

Structure Element Name	Structure Element Type
MinLength	TpInt32
MaxLength	TpInt32
EndSequence	TpString
StartTimeout	TpDuration
InterCharTimeout	TpDuration

The structure elements specify the following criteria:

MinLength: Defines the minimum number of characters (e.g. digits) to collect.

MaxLength: Defines the maximum number of characters (e.g. digits) to collect.

EndSequence: Defines the character or characters which terminate an input of variable length, e.g. phone numbers.

StartTimeout: specifies the value for the first character time-out timer. The timer is started when the announcement has been completed or has been interrupted. The user should enter the start of the response (e.g. first digit) before the timer expires. If the start of the response is not entered before the timer expires, the input is regarded to be erroneous. After receipt of the start of the response, which may be valid or invalid, the timer is stopped.

InterCharTimeOut: specifies the value for the inter-character time-out timer. The timer is started when a response (e.g. digit) is received, and is reset and restarted when a subsequent response is received. The responses may be valid or invalid. the announcement has been completed or has been interrupted.

Input is considered successful if the following applies:

If the EndSequence is not present (i.e. ~~NULL~~an empty string):

- when the InterCharTimeOut timer expires; or
- when the number of valid digits received equals the MaxLength.

If the EndSequence is present:

- when the InterCharTimeOut timer expires; or
- when the EndSequence is received; or
- when the number of valid digits received equals the MaxLength.

In the case the number of valid characters received is less than the MinLength when the InterCharTimeOut timer expires or when the EndSequence is received, the input is considered erroneous.

The collected characters (including the EndSequence) are sent to the client application when input has been successful.

***** END OF FIRST CHANGE *****

CHANGE REQUEST

⌘ **29.198-05 CR 017** ⌘ rev **-** ⌘ Current version: **4.4.0** ⌘

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

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Correction to TpUIInfo data type to support binary data for SMS services		
Source:	⌘ CN5		
Work item code:	⌘ OSA1	Date:	⌘ 12/07/2002
Category:	⌘ F Use <u>one</u> 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.	Release:	⌘ REL-4 Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)

Reason for change:	⌘ The User Interaction is currently supported with mappings to MAP/CAP, including support for SMS delivery. Current SMS can support binary mode, whereas the existing API cannot be used to supply this data.
Summary of change:	⌘ Correct the definition of TpUIInfo to include support for binary data.
Consequences if not approved:	⌘ API is unable to support current network capabilities

Clauses affected:	⌘ 11.17; 11.18
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications ⌘ <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications
Other comments:	⌘ Mirror Rel-5 CR 29.198-05 in N5-020750.

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- 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.

***** START OF FIRST CHANGE *****

11.17 TpUIInfo

Defines the Tagged Choice of Data Elements that specify the information to send to the user.

Tag Element Type
TpUIInfoType

Tag Element Value	Choice Element Type	Choice Element Name
P_UI_INFO_ID	TpInt32	InfoId
P_UI_INFO_DATA	TpString	InfoData
P_UI_INFO_ADDRESS	TpURL	InfoAddress
P_UI_INFO_BIN_DATA	TpOctetSet	InfoBinData

The choice elements represent the following:

InfoID: defines the ID of the user information script or stream to send to an end-user. The values of this data type are operator specific.

InfoData: defines the data to be sent to an end-user’s terminal. The data is free-format and the encoding is depending on the resources being used..

InfoAddress: defines the URL of the text or stream to be sent to an end-user’s terminal.

InfoBinData: defines the binary data to be sent to an end-user’s terminal. The data is a free-format, 8-bit quantity that is guaranteed not to undergo any conversion when transmitted.

11.18 TpUIInfoType

Defines the type of the information to be sendt to the user.

Name	Value	Description
P_UI_INFO_ID	0	The information to be send to an end-user consists of an ID
P_UI_INFO_DATA	1	The information to be send to an end-user consists of a data string
P_UI_INFO_ADDRESS	2	The information to be send to an end-user consists of a URL.
P_UI_INFO_BIN_DATA	3	The information to be sent to an end-user consists of a 8 bit binary data set

***** END OF FIRST CHANGE *****