3GPP TSG CN Plenary Meeting #16 **NP-020180**
5th - 7th June 2002. Marco Island, USA.

Source: **CN5 (OSA)**

Title: **Rel-4 CRs 29.198-04 OSA API Part 4: Call control**

Agenda item: **7.10**

Document for: **APPROVAL**

Doc-1st -Level	Spec	CR	Rev	Pha	Subject	Cat	Ver Curr	Ver New	Doc-2nd -Level	Work item
NP-020180	29.198-04	035	-	Rel-4	Correction to TpCallChargePlan	F	4.3.0	4.4.0	N5-020462	OSA1
NP-020180	29.198-04	036	-	Rel-4	Correction to CAMEL Service Property values	F	4.3.0	4.4.0	N5-020464	OSA1

joint API group (Parlay, ETSI Project OSA, 3GPP TSG_CN WG5) **N5-020462**
Meeting #18, Budapest, HUNGARY, 13 – 17 May 2002

CR-Form-v5

CHANGE REQUEST

⌘ **29.198-04** **CR** **035** ⌘ **rev** **-** ⌘ Current version: **4.3.0** ⌘

*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 **X**

Title:	⌘	Correction to TpCallChargePlan
Source:	⌘	CN5
Work item code:	⌘	OSA1
Date:	⌘	17/05/2002
Category:	⌘	**F**
Release:	⌘	REL-4

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:
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:	⌘	It is not possible to select P_CALL_PARTY_ORIGINATING and P_CALL_PARTY_DESTINATION as PartyToCharge in TpCallChargePlan.
Summary of change:	⌘	Change type of PartyToCharge from union to enum and add a union for PartyToChargeAdditionalInfo.
Consequences if not approved:	⌘	Limited charging functionality available.

Clauses affected:	⌘	7
Other specs affected:	⌘	☐ Other core specifications ⌘ ☐ Test specifications ☐ O&M Specifications
Other comments:	⌘	

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.

Introduction

The type TpCallChargePlan contains an item PartyToCharge that identifies the party to be charged for the call. This item is of type TpCallPartyToCharge that maps to a CORBA union having TpCallPartyToChargeType as discriminator.

For P_CALL_PARTY_ORIGINATING and P_CALL_PARTY_DESTINATION the value of the CORBA union is not defined (NULL). Therfore an application cannot set CALL_PARTY_ORIGINATING or P_CALL_PARTY_DESTINATION as party to charge.

The problem is related to Java code generation from the IDL file. For the TpPartyToCharge type a class is generated which lacks methods to set the discriminator.

Proposed Changes

The following corrections are proposed:

TpCallChargePlan

Defines the Sequence of Data Elements that specify the charge plan for the call.

Sequence Element Name	Sequence Element Type	Description
ChargeOrderType	TpCallChargeOrderCategory	Charge order
TransparentCharge	TpOctetSet	Operator specific charge plan specification, e.g. charging table name / charging table entry. The associated charge plan data will be send transparently to the charging records. Only applicable when transparent charging is selected.
ChargePlan	TpInt32	Pre-defined charge plan. Example of the charge plan set from which the application can choose could be : (0 = normal user, 1 = silver card user, 2 = gold card user). Only applicable when transparent charging is selected.
AdditionalInfo	TpOctetSet	Descriptive string which is sent to the billing system without prior evaluation. Could be included in the ticket.
PartyToCharge	TpCallPartyToChargeType	Identifies the entity or party to be charged for the call or call leg.
PartyToChargeAdditionalInfo	TpCallPartyToChargeAdditionalInfo	Contains additional information regarding the charged party.

TpCallPartyToChargeAdditionalInfo

Defines the Tagged Choice of Data Elements that identifies the entity or party to be charged.

	Tag Element Type		
	TpCallPartyToChargeType		

Tag Element Value	Choice Element Type	Choice Element Name
P_CALL_PARTY_ORIGINATING, ,	NULL	Undefined
P_CALL_PARTY_DESTINATION,	NULL	Undefined
P_CALL_PARTY_SPECIAL	TpAddress	CallPartySpecial

TpCallPartyToChargeType

Defines the type of call party to charge

Name	Value	Description
P_CALL_PARTY_ORIGINATING, ,	0	Calling party, i.e. party that initiated the call. For application initiated calls this indicates the first party of the call
P_CALL_PARTY_DESTINATION,	1	Called party
P_CALL_PARTY_SPECIAL	2	An address identifying e.g. a third party, a service provider

CR-Form-v5

CHANGE REQUEST

⌘ **29.198-04** **CR** **036** ⌘ **rev** **-** ⌘ Current version: **4.3.0** ⌘

*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 **X**

Title:	⌘	Correction to CAMEL Service Property values
Source:	⌘	CN5
Work item code:	⌘	OSA1
Date:	⌘	17/05/2002
Category:	⌘	**F**
Release:	⌘	*REL-4*

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:
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:	⌘	Some values for the event names in the CAMELv3 Service Property values for MultiParty Call Control were found to be incorrect.
Summary of change:	⌘	Errors in event names are corrected
Consequences if not approved:	⌘	Interoperability problems.
Clauses affected:	⌘	6.5.2, 7.5.2
Other specs affected:	⌘	☐ Other core specifications ⌘ ☐ Test specifications ☐ O&M Specifications
Other comments:	⌘	

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.

6.5.2 Service Property values for the CAMEL Service Environment.

Implementations of the Generic Call Control API relying on the CSE of CAMEL phase 3 shall have the Service Properties outlined above set to the indicated values :

```
P_OPERATION_SET = {
“IpCallControlManager.enableCallNotification”,
“IpCallControlManager.disableCallNotification”,
“IpCallControlManager.changeCallNotification”,
“IpCallControlManager.getCriteria”,
“IpCallControlManager.setCallLoadControl”,
“IpCall.routeReq”,
“IpCall.release”,
“IpCall.deassignCall”,
“IpCall.getCallInfoReq”,
“IpCall.setCallChargePlan”,
“IpCall.setAdviceOfCharge”,
“IpCall.superviseCallReq”
}

P_TRIGGERING_EVENT_TYPES = {
P_EVENT_GCCS_ADDRESS_COLLECTED_EVENT,
P_EVENT_GCCS_ADDRESS_ANALYSED_EVENT,
P_EVENT_GCCS_CALLED_PARTY_BUSY,
P_EVENT_GCCS_CALLED_PARTY_UNREACHABLE,
P_EVENT_GCCS_NO_ANSWER_FROM_CALLED_PARTY,
P_EVENT_GCCS_ROUTE_SELECT_FAILURE
}

P_DYNAMIC_EVENT_TYPES = {
P_CALL_REPORT_ANSWER,
P_CALL_REPORT_BUSY,
P_CALL_REPORT_NO_ANSWER,
P_CALL_REPORT_DISCONNECT,
P_CALL_REPORT_ROUTING_FAILURE,
P_CALL_REPORT_NOT_REACHABLE
}

P_ADDRESS_PLAN = {
P_ADDRESS_PLAN_E164
}

P_UI_CALL_BASED = {
TRUE
}

P_UI_AT_ALL_STAGES = {
FALSE
}

P_MEDIA_TYPE = {
P_AUDIO
}
```

7.5.2 Service Property values for the CAMEL Service Environment.

Implementations of the MultiParty Call Control API relying on the CSE of CAMEL phase 3 shall have the Service Properties outlined above set to the indicated values :

```
P_OPERATION_SET = {
“IpMultiPartyCallControlManager.createNotification”,
“IpMultiPartyCallControlManager.destroyNotification”,
“IpMultiPartyCallControlManager.changeNotification”,
“IpMultiPartyCallControlManager.getNotification”,
“IpMultiPartyCallControlManager.setCallLoadControl”
“IpMultiPartyCall.getCallLegs”,
“IpMultiPartyCall.createCallLeg”,
“IpMultiPartyCall.createAndRouteCallLegReq”,
“IpMultiPartyCall.release”,
“IpMultiPartyCall.deassignCall”,
“IpMultiPartyCall.getInfoReq”,
“IpMultiPartyCall.setChargePlan”,
“IpMultiPartyCall.setAdviceOfCharge”,
“IpMultiPartyCall.superviseReq”,
“IpCallLeg.routeReq”,
“IpCallLeg.eventReportReq”,
“IpCallLeg.release”,
“IpCallLeg.getInfoReq”,
“IpCallLeg.getCall”,
“IpCallLeg.continueProcessing”
}

P_TRIGGERING_EVENT_TYPES = {
~~P_CALL_EVENT_CALL_ATTEMPT,~~
~~P_CALL_EVENT_ADDRESS_COLLECTED,~~
~~P_CALL_EVENT_ADDRESS_ANALYSED,~~
~~P_CALL_EVENT_RELEASE,~~
P_CALL_EVENT_ADDRESS_COLLECTED,
P_CALL_EVENT_ADDRESS_ANALYSED,
P_CALL_EVENT_ORIGINATING_RELEASE,(1)
P_CALL_EVENT_TERMINATING_CALL_ATTEMPT_AUTHORISED,
P_CALL_EVENT_TERMINATING_RELEASE,
}

P_DYNAMIC_EVENT_TYPES = {
P_CALL_EVENT_ANSWER,
~~P_CALL_EVENT_RELEASE~~
P_CALL_EVENT_ORIGINATING_RELEASE,
P_CALL_EVENT_TERMINATING_RELEASE,
}

P_ADDRESS_PLAN = {
P_ADDRESS_PLAN_E164
}

P_UI_CALL_BASED = {
TRUE
}

P_UI_AT_ALL_STAGES = {
FALSE
}

P_MEDIA_TYPE = {
P_AUDIO
}

P_MAX_CALLLEGS_PER_CALL = {
0,
2
}

P_UI_CALLLEG_BASED = {
FALSE
}
```

```
P_MEDIA_ATTACH_EXPLICIT = {
FALSE
}
```

(1) Only for the routing failure case, TpReleaseCause = P_ROUTING_FAILURE