3GPP TSG CN Plenary Meeting #13
Beijing, China, 19th ¯21st September 2001

Source:		CN5 (OSA)									
Title:		CRs 29.198-11 Rel-4									
Agenda item:		8.5									
Document for:		Approval									

Doc-1st-Level	Doc-2nd-Level	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Meeting-2nd-Level	Workitem
NP-010472	N5-010682	29.198-11	001		Rel-4	Changing references to JAIN	F	4.0.0	4.1.0	N5-12	OSA1
NP-010472	N5-010669	29.198-11	002		Rel-4	Missing exceptions for enabling and changing the notifications	F	4.0.0	4.1.0	N5-12	OSA1

CR-Form-v4

CHANGE REQUEST

| | ⌘ | **29.198-11** CR **001** | ⌘ | ev | **-** | ⌘ | Current version: | **4.0.0** | ⌘ |

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

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

Title: ⌘	Changing references to JAIN	
Source: ⌘	CN5	
Work item code: ⌘	OSA1	**Date:** ⌘ 30/08/2001

Category: ⌘ **F**

	Release: ⌘ REL-4
Use one of the following categories:	*Use one of the following releases:*
F *(correction)*	*2 (GSM Phase 2)*
A *(corresponds to a correction in an earlier release)*	*R96 (Release 1996)*
B *(addition of feature),*	*R97 (Release 1997)*
C *(functional modification of feature)*	*R98 (Release 1998)*
D *(editorial modification)*	*R99 (Release 1999)*
Detailed explanations of the above categories can	*REL-4 (Release 4)*
be found in 3GPP TR 21.900.	*REL-5 (Release 5)*

Reason for change: ⌘	Incorrect references to JAIN.
Summary of change: ⌘	Correct references to the JAIN.
Consequences if not approved: ⌘	Potential legal ramifications

Clauses affected: ⌘	1
Other specs affected: ⌘	**X** Other core specifications ⌘ All other parts of TS 29.198 Rel-4 ☐ 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.

1 Scope

The present document is Part 11 of the Stage 3 specification for an Application Programming Interface (API) for Open Service Access (OSA).

The OSA specifications define an architecture that enables application developers to make use of network functionality through an open standardised interface, i.e. the OSA APIs. The concepts and the functional architecture for the OSA are contained in 3GPP TS 23.127 [3]. The requirements for OSA are contained in 3GPP TS 22.127 [2].

The present document specifies the Account Management Service Capability Feature (SCF) aspects of the interface. All aspects of the Account Management SCF are defined here, these being:

- Sequence Diagrams

- Class Diagrams

- Interface specification plus detailed method descriptions

- State Transition diagrams

- Data definitions

- IDL Description of the interfaces

The process by which this task is accomplished is through the use of object modelling techniques described by the Unified Modelling Language (UML).

This specification has been defined jointly between 3GPP TSG CN WG5, ETSI SPAN 12 and the Parlay Consortium, in co-operation with a number of JAIN™ Community member companiesthe JAIN consortium.

3GPP TSG_CN5 (Open Service Access – OSA)   **N5-010669**
Meeting #12, Sophia Antipolis, FRANCE, 16 – 19 July 2001

CR-Form-v4	

CHANGE REQUEST

| ⌘ | **29.198-11** CR **002** | ⌘ | ᵉv | **-** | ⌘ | Current version: | **4.0.0** | ⌘ |

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

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

Title:	⌘	Missing exceptions for enabling and changing the notifications
Source:	⌘	CN5
Work item code: ⌘		OSA1 ***Date:*** ⌘ 30/08/2001
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 exceptions are missing in the methods for enabling notifications and changing the notifications.
Summary of change: ⌘		Missing exceptions are introduced.
Consequences if not approved:	⌘	Ambigous specification, leading to erroneous implementations.

Clauses affected:	⌘	8.1

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

Other comments:	⌘	

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4 Account Management Interface Classes

4.1 Interface Class IpAccountManager

Inherits from: IpService.

The account manager interface provides methods for monitoring accounts. Applications can use this interface to enable or disable charging-related event notifications and to query account balances.

<<Interface>>
IpAccountManager
createNotification (ChargingEventCriteria : in TpChargingEventCriteria, assignmentId : out TpAssignmentIDRef) : TpResult destroyNotification (assignmentId : in TpAssignmentID) : TpResult queryBalanceReq (users : in TpAddressSet, queryId : out TpSessionIDRef) : TpResult changeNotification (assignmentID : in TpAssignmentID, eventCriteria : in TpChargingEventCriteria) : TpResult getNotification (eventCriteria : out TpChargingEventCriteriaResultRef) : TpResult retrieveTransactionHistoryReq (user : in TpAddress, transactionInterval : in TpTimeInterval, retrievalID : out TpSessionIDRef) : TpResult

Method
createNotification()

This method is used by the application to enable charging event notifications to be sent to the application.

Parameters

ChargingEventCriteria : in TpChargingEventCriteria

Specifies the event specific criteria used by the application to define the charging event required. Individual addresses or address ranges may be specified for subscriber accounts. Example of events are "charging" and "recharging".

assignmentId : out TpAssignmentIDRef

Specifies the ID assigned by the account management object for this newly enabled event notification.

Raises

TpCommonExceptions, P_INVALID_ADDRESS, P_INVALID_CRITERIA, P_INVALID_EVENT_TYPE, P_UNKNOWN_SUBSCRIBER

Method
destroyNotification()

This method is used by the application to disable charging notifications.

Parameters

assignmentId : in TpAssignmentID

Specifies the assignment ID that was given by the account management object when the application enabled the charging notification.

Raises

TpCommonExceptions, P_INVALID_ASSIGNMENT_ID

Method
queryBalanceReq()

This method is used by the application to query the balance of an account for one or several users.

Parameters

users : in TpAddressSet

Specifies the user(s) for which the balance is queried.

queryId : out TpSessionIDRef

Specifies the ID of the balance query request.

Raises

TpCommonExceptions, P_UNKNOWN_SUBSCRIBER, P_UNAUTHORIZED_APPLICATION

Method
changeNotification()

This method is used by the application to change the event criteria introduced with createNotification. Any stored criteria associated with the specified assignementID will be replaced with the specified criteria.

Parameters

assignmentID : in TpAssignmentID

Specifies the ID assigned by the manager interface for the event notification.

eventCriteria : in TpChargingEventCriteria

Specifies the new set of event criteria used by the application to define the event required. Only events that meet these criteria are reported

Raises

TpCommonExceptions, P_INVALID_ASSIGNMENT_ID, P_INVALID_CRITERIA, P_INVALID_EVENT_TYPE, P_UNKNOWN_SUBSCRIBER, P_INVALID_ADDRESS

Method
getNotification()

This method is used by the application to query the event criteria set with createNotification or changeNotification.

Parameters

eventCriteria : out TpChargingEventCriteriaResultRef

Specifies the event criteria used by the application to define the event required. Only events that meet these criteria are reported.

Raises

TpCommonExceptions

Method
retrieveTransactionHistoryReq()

This asynchronous method is used by the application to retrieve a transaction history of a subscriber's account. The history is a set of Detailed Records.

Parameters

user : in TpAddress

Specifies the subscriber for whose account the transaction history is to be retrieved.

transactionInterval : in TpTimeInterval

Specifies the time interval for which the application history is to be retrieved.

retrievalID : out TpSessionIDRef

Specifies the retrieval ID of the transaction history retrieval request.

Raises

TpCommonExceptions, P_UNKNOWN_SUBSCRIBER, P_UNAUTHORIZED_APPLICATION, P_INVALID_TIME_AND_DATE_FORMAT