NP-020111

3GPP TSG CN Plenary Meeting #15 6 - 8 March 2002. Jeju, KOREA

Source: CN5 (OSA)

Title: Rel-4 CRs 29.198-11 OSA API Part 11: Account management

Agenda item: 8.5

Document for: Decision

Doc-1st-	Spec	CR	R	Phase	Subject	Cat	Ver	Ver	Doc-2nd-	
Level							- Curr	- New	Level	m
NP-020111	29.198-11	005			Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	F	4.2.0	4.3.0	N5-020026	OSA1
NP-020111	29.198-11	006			Correction of parameter name in IpAccountManager.createNotification()	F	4.2.0	4.3.0	N5-020033	OSA1
NP-020111	29.198-11	007			Correction of result parameter of getNotification, set in stead of single result	F	4.2.0	4.3.0	N5-020082	OSA1

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Work item o	ode: ૠ	OS	A1								D	ate: ३	80	3/02/	2002		
Category: # F 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. REL-4 REL-4 REL-4 REL-4 REL-4 REL-5 (Release 1999) REL-5 REL-5 (Release 5))))	es:							
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Summary o	f chang	ge: ૠ			ception k() and s							E to th	e exc	cepti	on list	t of	
	Consequences if not approved: If an incorrect interface reference is received, a service instance will not be able to indicate this to the application, therefore no callback interface reference will have been provided, and so interworking between instances of an application and a service will fail.									will							
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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 \$\mathbb{X}\$ 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.

7.4 Generic Service Interface

7.4.1 Interface Class IpService

Inherits from: IpInterface

All service interfaces inherit from the following interface.

<<Interface>>

IpService

setCallback (appInterface : in IpInterfaceRef) : void

setCallbackWithSessionID (appInterface : in IpInterfaceRef, sessionID : in TpSessionID) : void

Method

setCallback()

This method specifies the reference address of the callback interface that a service uses to invoke methods on the application. It is not allowed to invoke this method on an interface that uses SessionID's.

Parameters

appInterface: in IpInterfaceRef

Specifies a reference to the application interface, which is used for callbacks

Raises

TpCommonExceptions, P_INVALID_INTERFACE_TYPE

Method

setCallbackWithSessionID()

This method specifies the reference address of the application's callback interface that a service uses for interactions associated with a specific session ID: e.g. a specific call, or call leg. It is not allowed to invoke this method on an interface that does not uses SessionID's.

Parameters

appInterface: in IpInterfaceRef

Specifies a reference to the application interface, which is used for callbacks

sessionID: in TpSessionID

Specifies the session for which the service can invoke the application's callback interface.

Raises

TpCommonExceptions, P_INVALID_SESSION_ID, P_INVALID_INTERFACE_TYPE

3GPP TSG-CN5 Meeting 16 Hong Kong, China, 4-8 February 2002

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3)	3) With "track changes" disabled, paste the entire CR form (the clause containing the first piece of changed text. Delethe change request.	use CTRL-A to select it) into the specification just in front of ete those parts of the specification which are not relevant to

**** FIRST MODIFIED SECTION ****

8 Account Management Interface Classes

8.1 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): TpAssignmentID

destroyNotification (assignmentId : in TpAssignmentID) : void queryBalanceReq (users : in TpAddressSet) : TpSessionID

changeNotification (assignmentID: in TpAssignmentID, eventCriteria: in TpChargingEventCriteria): void

getNotification (): TpChargingEventCriteriaResultSet

retrieveTransactionHistoryReg (user: in TpAddress, transactionInterval: in TpTimeInterval): TpSessionID

Method

createNotification()

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

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

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".

Returns

TpAssignmentID

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.

Returns queryId: Specifies the ID of the balance query request.

Parameters

users : in TpAddressSet

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

Returns

TpSessionID

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 assignmentID 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.

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

Parameters

No Parameters were identified for this method

Returns

${\tt TpChargingEventCriteriaResult\underline{Set}}$

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.

Returns retrievalID: Specifies the retrieval ID of the transaction history retrieval request.

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.

Returns

TpSessionID

Raises

TpCommonExceptions, P_UNKNOWN_SUBSCRIBER, P_UNAUTHORIZED_APPLICATION, P_INVALID_TIME_AND_DATE_FORMAT

**** NEXT MODIFIED SECTION ****

11.1.7 TpChargingEventCriteriaResult

Defines the Sequence of Data Elements that specify the criteria relating to event requests.

Sequence Element Name	Sequence Element Type					
ChargingEventCriteria	TpChargingEventCriteria					
AssignmentID	TpAssignmentID					

11.1.8 TpChargingEventCriteriaResultSet

<u>Defines a collection of TpChargingEventCriteriaResult elements.</u>



Meeting #16, Hong Kong, China, 4 – 8 February 2002													
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Proposed change affects: # (U)SIM ME/UE Radio Access Network Core Network X													
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Consequences if not approved: This change has a direct impact on implementation code. If it's not correct now, it will be impossible to correct once implementations appear. If it's not corrected in the specifications, some implementers will follow convention a correct this, others will follow the specification to the letter, and interworking problems will result.								s not on and					
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Other comments:

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<<Interface>>

IpAccountManager

 $create Notification \ (\underline{ChargingEventCriteria}\underline{-chargingEventCriteria} : in \ TpChargingEventCriteria) :$

TpAssignmentID

 $destroy Notification\ (assignment Id: in\ TpAssignment ID): void$

queryBalanceReq (users : in TpAddressSet) : TpAssignmentID

 $change Notification\ (assignment ID: in\ TpAssignment ID,\ event Criteria: in\ TpCharging Event Criteria): void$

getNotification (): TpChargingEventCriteriaResult

retrieveTransactionHistoryReq (user: in TpAddress, transactionInterval: in TpTimeInterval):

TpAssignmentID