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Technical Report

Open Service Access (OSA); Mapping of Parlay X Web Services to Parlay/OSA APIs; Part 10: Call Handling Mapping; Sub-part 1: Mapping to Generic Call Control and User Interaction



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Foreword

This Technical Report (TR) has been produced by ETSI Technical Committee Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN).

The present document is part 10, sub-part 1 of a multi-part deliverable covering Open Service Access (OSA); Mapping of Parlay X Web Services to Parlay/OSA APIs, as identified below:

- Part 1: "Common Mapping";
- Part 2: "Third Party Call Mapping";
- Part 3: "Call Notification Mapping";
- Part 4: "Short Messaging Mapping";
- Part 5: "Multimedia Messaging Mapping";
- Part 6: "Payment Mapping";
- Part 7: "Account Management Mapping";
- Part 8: "Terminal Status Mapping";
- Part 9: "Terminal Location Mapping";
- Part 10: "Call Handling Mapping";

Sub-part 1: "Mapping to Generic Call Control and User Interaction";

- Sub-part 2: "Mapping to Multi-Party Call Control and User Interaction";
- Part 11: "Audio Call Mapping";
- Part 12: "Multimedia Conference Mapping";
- Part 14: "Presence Mapping".
- NOTE: Part 13 has not been provided as there is currently no defined mapping between ES 202 391-13 [4] and the Parlay/OSA APIs. If a mapping is developed, it will become part 13 of this series.

The present document has been defined jointly between ETSI, The Parlay Group (http://www.parlay.org) and the 3GPP.

1 Scope

The present document specifies the mapping of the Parlay X Call Handling Web Service to the Generic Call Control and User Interaction Service Capability Features (SCFs).

The Parlay X Web Services provide powerful yet simple, highly abstracted, imaginative, telecommunications functions that application developers and the IT community can both quickly comprehend and use to generate new, innovative applications.

The Open Service Access (OSA) specifications define an architecture that enables application developers to make use of network functionality through an open standardized interface, i.e. the Parlay/OSA APIs.

2 References

For the purposes of this Technical Report (TR), the following references apply:

 ETSI TR 121 905: "Universal Mobile Telecommunications System (UMTS); Vocabulary for 3GPP Specifications (3GPP TR 21.905)".
 W3C Recommendation (2 May 2001): "XML Schema Part 2: Datatypes".
 NOTE: Available at http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/.
 ETSI TR 102 397-1: "Open Service Access (OSA); Mapping of Parlay X Web Services to Parlay/OSA APIs; Part 1: Common Mapping".
 ETSI ES 202 391-13: "Open Service Access (OSA); Parlay X Web Services; Part 13: Address List Management".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TR 102 397-1 [3] apply.

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in TR 102 397-1 [3] apply.

4 Mapping description

The Call Handling capability can be implemented with Parlay/OSA Generic Call Control and User Interaction.

It is applicable to ETSI OSA 1.x/2.x/3.x, Parlay/OSA 3.x/4.x/5.x and 3GPP Releases 4 to 6.

5 Sequence diagrams

5.1 Enabling call notifications



Figure 1

5.2 Disabling call notifications



Figure 2

5.3 Processing a call: Route to original destination



Figure 3

5.4 Processing a call: Perform user interaction & terminate



Figure 4

5.5 Processing a call: Forward to "busy" destination, re-route to original destination



Figure 5

6 Detailed mapping information

6.1 Operations

The Call Handling web service operations are mapped to the Parlay/OSA APIs in two distinct areas:

- enabling and disabling of call notifications associated with originating call attempts, specifically the "address analyzed" trigger, which is discussed in clauses 6.1.1 through 6.1.3;
- sequential rule-based processing of originating call attempts, which is discussed (in order of precedence) in clauses 6.1.4 through 6.1.10.

6.1.1 setRules and setRulesForGroup

These operations set up (or replace as applicable) the set of rules associated with a destination address or addresses. Call notification is established with the Call Control service for the termination address for the receipt of a call attempt notification.

The sequence diagram in clause 5.1 illustrates the flow for these operations. They are mapped to the Parlay/OSA method: IpCallControlManager.enableCallNotification.

6.1.1.1 Mapping to IpCallControlManager.enableCallNotification

The IpCallControlManager.enableCallNotification method is invoked with the following parameters.

Name	Туре	Comment
appCallControl	IpAppCallControl	Specifies the interface for receiving call-related event notifications
Manager	ManagerRef	associated with the criteria contained in the eventCriteria.
eventCriteria	TpCallEventCriteria	Specifies event-related data, which is mapped from the parts of the setRules[ForGroup]Request message as described in clause 6.1.1.2.

The result from IpCallControlManager.enableCallNotification is of type TpAssignmentID. It is used internally by the Call Handling web service to correlate the Parlay/OSA callbacks,

e.g. IpAppCallControlManager.callEventNotify, when a call-related event, which is associated with the criteria contained in the eventCriteria element, is triggered in the network.

Parlay exceptions thrown by IpCallControlManager.enableCallNotification are mapped to Parlay X exceptions as defined in clause 6.2.

6.1.1.2 Mapping from setRules[ForGroup]Request to eventCriteria

The elements of the eventCriteria data type are derived from the parts of the **setRules**[ForGroup]Request message as follows.

Name	Туре	Comment
DestinationAddress	TpAddressRange	Specifies the destination address of the call, which is derived from the URI in the address[es] part of setRules[ForGroup]Request ,
		as described in TR 102 397-1 [3].
OriginatingAddress	TpAddressRange	Not mapped. [Specifies the origination address of the call: i.e. null]
CallEventName	TpCallEventName	Name of the event: i.e.
		P_EVENT_GCCS_ADDRESS_ANALYSED_EVENT.
CallNotificationType	TpCallNotificationType	Specifies that the notification is related to the call destination.
MonitorMode	TpCallMonitorMode	Defines the mode that the call is in following the notification:
		i.e. p_Call_monitor_mode_interrupt.

6.1.2 getRules

This operation does not interact with any network elements, it returns the configured rules for an address.

The sequence diagram in clause 5.1 illustrates the flow for this operation.

6.1.3 clearRules

This operation disables the call notification from the Call Control service, and clears the related rules information stored by the service.

The sequence diagram in clause 5.2 illustrates the flow for these operations. They are mapped to the Parlay/OSA method: IpCallControlManager.disableCallNotification.

6.1.3.1 Mapping to IpCallControlManager.disableCallNotification

The IpCallControlManager.disableCallNotification method is invoked with the following parameters.

Name	Туре	Comment
assignmentID	TpAssignmentID	Specifies the assignment ID returned after an earlier invocation of
-		IpCallControlManager.enableCallNotification method.

Parlay exceptions thrown by IpCallControlManager.disableCallNotification are mapped to Parlay X exceptions as defined in clause 6.2.

6.1.4 CallHandlingRules.AcceptList Rule Processing

Call accepting determines if the call is accepted or rejected.

If the accept list associated with the called party (B) is null, then CallHandlingRules.AcceptList rule processing ends: processing continues with CallHandlingRules.BlockList Rule Processing.

If the calling party (A) is not a member of B's accept list, the call attempt by A is rejected: processing continues with clause 6.1.10 CallHandlingRules: Reject Call Attempt.

Otherwise the calling party (A) is a member of B's accept list, the call attempt by A is not rejected: processing continues with CallHandlingRules.ForwardList Rule Processing.

Rule processing is invoked by the Parlay/OSA method: IpAppCallControlManager. callEventNotify, as illustrated in clauses 5.3, 5.4 and 5.5.

6.1.4.1 Mapping from IpAppCallControlManager.callEventNotify

The IpAppCallControlManager.callEventNotify method is invoked with the following parameters.

Name	Туре	Comment
callReference	TpCallIdentifier	Specifies the reference to the call interface to which the notification
		relates.
eventInfo	TpCallEventInfo	Specifies event-related data, which is mapped to the Call Handling
		rule database as described in clause 6.1.4.2.
assignmentID	TpAssignmentID	Specifies the assignment id returned after an earlier invocation of
		IpCallControlManager.enableCallNotification method,
		when the criteria associated with this call-related event were
		activated in the network, as described in clause 6.1.1.1. It is used
		internally by the Call Notification web service to correlate the
		Parlay/OSA callbacks.

The result from IpAppCallControlManager.callEventNotify is of type IpAppCallRef, which specifies a reference to the application interface which implements the callback interface for the new call.

6.1.4.2 Mapping from TpCallEventInfo to Call Handling Rule Database

The elements of the TpCallEventInfo data type are mapped to the Call Handling rule database as follows.

Name	Туре	Comment
DestinationAddress	TpAddress	The called party B. Used as an index into the rule database to locate the CallHandlingRules structure for B. Mapped to the URI in the address(es) part of a setRules(ForGroup)Request message, as described in TR 102 397-1 [3].
OriginatingAddress	TpAddress	 The calling party A. Mapped to a URI provided in the CallHandlingRules structure for B, as described in TR 102 397-1 [3]. Matched against the contents of one or more of the following lists: CallHandlingRules.{AcceptList} CallHandlingRules.{BlockList} CallHandlingRules.{ForwardList.CallingAddress}.
OriginalDestination Address	TpAddress	Not mapped.
RedirectingAddress	TpAddress	Not mapped.
CallAppInfo	TpCallAppInfoSet	Not mapped.
CallEventName	TpCallEventName	Not mapped. This element has a value of P_EVENT_GCCS_ADDRESS_ANALYSED_EVENT.
CallNotificationType	TpCallNotificationType	Not mapped.
MonitorMode	TpCallMonitorMode	Not mapped. This element has a value of "P_CALL_MONITOR_MODE_INTERRUPT".

6.1.5 CallHandlingRules.BlockList Rule Processing

Call blocking determines if the call is rejected.

If the block list associated with the called party (B) is null, the call attempt by A is not rejected: processing continues with CallHandlingRules.ForwardList Rule Processing.

If the calling party (A) is not a member of B's block list, the call attempt by A is not rejected: processing continues with CallHandlingRules.ForwardList Rule Processing.

Otherwise the calling party (A) is a member of B's block list, the call attempt by A is rejected: processing continues with clause 6.1.10 CallHandlingRules: Reject Call Attempt.

Rule processing is invoked by the Parlay/OSA method: IpAppCallControlManager. callEventNotify as described in clauses 6.1.4.1 and 6.1.4.2, and as illustrated in clauses 5.3 to 5.5.

6.1.6 CallHandlingRules.ForwardList Rule Processing

Conditional call forwarding determines how the call attempt is forwarded, and possibly re-forwarded if the forwarded call does not complete.

If the (conditional) forward list associated with the called party (B) is null, the call attempt by A is not rejected: processing continues with CallHandlingRules.Forward Rule Processing.

If the calling party (A) is not a member of B's forward list - i.e. $A \notin \{ForwardList.ConditionalForward. CallingAddress\}$ - the call attempt by A is not rejected: processing continues with CallHandlingRules.Forward Rule Processing.

Otherwise the calling party (A) is a member of B's forward list – i.e. $A \in \{ForwardList.ConditionalForward. CallingAddress\}$ - the call attempt by A is forwarded to C (ForwardList.ConditionalForward.ForwardingAddress). In this case, zero, one or both call-related event reports are requested, as follows:

- interrupt call processing for a "C is busy" event, if **ForwardList.ConditionalForward.OnBusyAddress** is non-null;
- interrupt call processing for a "no answer from C" event, if **ForwardList.ConditionalForward. OnNoAnswerAddress** is non-null.

If no call-related event reports are requested, then rule processing is completed.

If the "C is busy" call event is triggered, the call attempt by A is re-forwarded to D (ForwardList.ConditionalForward.OnBusyAddress). No call-related event reports are requested. Rule processing is completed.

If the "no answer from C" call event is triggered, the call attempt by A is re-forwarded to E (ForwardList.ConditionalForward. OnNoAnswerAddress). No call-related event reports are requested. Rule processing is completed.

Otherwise, no requested call events are triggered on the forwarding to C and rule processing is completed.

Rule processing is originally invoked by the Parlay/OSA method: IpAppCallControlManager. callEventNotify as described in clauses 6.1.4.1 and 6.1.4.2. Conditional call forward rule processing maps to/from the following Parlay/OSA methods, as illustrated in clause 5.5:

- IpCall.routeReg;
- IpAppCall.routeRes; •
- IpAppCall.routeErr. •

6.1.6.1 Mapping to IpCall.routeReq

The IpCall.routeReq method is invoked with the following parameters.

Name	Туре	Comment
callSessionID	TpSessionID	Not mapped: derived from the callReference parameter of
		IpAppCallControlManager.callEventNotify, as described
		in clause 6.1.4.1.
responseRequested	TpCallReportRequest	Depending on the content of the Conditional Forward list entry for
	Set	calling party A, as discussed in clause 6.1.6, this field contains zero,
		one or both of the following call-related event reports:
		P_CALL_REPORT_BUSY, P_CALL_REPORT_NO_ANSWER, each with a
		monitor mode of P_CALL_MONITOR_MODE_INTERRUPT.
targetAddress	TpAddress	Specifies the destination leg to which the call should be routed: i.e
		forwarded call party C, or re-forwarded call party D or E, as described
		in clause 6.1.6, and mapped as described in TR 102 397-1 [3].
originatingAddress	TpAddress	
originalDestination	TpAddress	Parameters not mapped: derived from the eventInfo parameter of
Address		IpAppCallControlManager.callEventNotify, as described in
redirectingAddress	TpAddress	clauses 6.1.4.1 and 6.1.4.2.
appInfo	TpCallAppInfoSet	

The result from IpCall.routeReq is of type TpSessionID and is not mapped to the Parlay X interface.

Parlay exceptions thrown by IpCall.routeReq are not mapped to Parlay X exceptions. Instead, processing continues with CallHandlingRules: Continue Existing Call Attempt.

6.1.6.2 Mapping from IpAppCall.routeRes

The IpAppCall.routeRes callback method is invoked with the following parameters.

Name	Туре	Comment
callSessionID	TpSessionID	Not mapped. (The value is provided in the callSessionID
		parameter of IpCall.routeReq).
eventReport	TpCallReport	Contains either P_CALL_REPORT_BUSY or
		P_CALL_REPORT_NO_ANSWER, with monitor mode of
		P_CALL_MONITOR_MODE_INTERRUPT. The present document
		specifies the reason the call could not be forwarded to call party C
		(reference the discussion in clause 6.1.6). Results in call being
		re-forwarded to call party D or E.
callLegSessionID	TpSessionID	Not mapped. (The value is provided in the result from
		IpCall.routeReq).

6.1.6.3 Mapping from IpAppCall.routeErr

The IpAppCall.routeErr callback method is invoked with the following parameters.

Name	Туре	Comment
callSessionID	TpSessionID	Not mapped. (The value is provided in the callSessionID
		parameter of IpCall.routeReq).
errorIndication	TpCallError	Not mapped. Specifies the error which led to the original request
		failing.
callLegSessionID	TpSessionID	Not mapped. (The value is provided in the result from
-		IpCall.routeReq).

Since conditional call forward rule processing is unsuccessful, the call attempt is allowed to continue to the original called party B: i.e. processing continues with CallHandlingRules: Continue Existing Call Attempt.

6.1.7 CallHandlingRules.Forward Rule Processing

Unconditional call forwarding determines how the call attempt is forwarded, and possibly re-forwarded if the forwarded call does not complete.

If the (unconditional) forward list associated with the called party (B) is null, the call attempt by A is not rejected: processing continues with CallHandlingRules.VoiceInteractionContent Rule Processing.

Otherwise the call attempt by A is forwarded to C (**ForwardList.UnconditionalForward.ForwardingAddress**). In this case, zero, one or both call-related event reports are requested, as follows:

- interrupt call processing for a "C is busy" event, if **ForwardList.UnconditionalForward.OnBusyAddress** is non-null;
- interrupt call processing for a "no answer from C" event, if **ForwardList.UnconditionalForward. OnNoAnswerAddress** is non-null.

If no call-related event reports are requested, then rule processing is completed.

If the "C is busy" call event is triggered, the call attempt by A is re-forwarded to D (**ForwardList.UnconditionalForward.OnBusyAddress**). No call-related event reports are requested. Rule processing is completed.

If the "no answer from C" call event is triggered, the call attempt by A is re-forwarded to E (ForwardList.UnconditionalForward.OnNoAnswerAddress). No call-related event reports are requested. Rule processing is completed.

Otherwise, no requested call events are triggered on the forwarding to C and rule processing is completed.

Rule processing is originally invoked by the Parlay/OSA method: IpAppCallControlManager. callEventNotify as described in clauses 6.1.4.1 and 6.1.4.2. Unconditional call forward rule processing maps to/from the following Parlay/OSA methods, as illustrated in clause 5.5:

- IpCall.routeReq;
- IpAppCall.routeRes.

The mapping of unconditional call forward rule processing to both methods is identical to the mapping of conditional call forward rule processing described in clauses 6.1.6.1 to 6.1.6.3, except that all references to clause 6.1.6 should be replaced with references to clause 6.1.7.

6.1.8 CallHandlingRules.VoiceInteractionContent Rule Processing

If there is no voice interaction content specified in the call handling rule database for called party B, processing continues with CallHandlingRules: Continue Existing Call Attempt.

Otherwise, the call is handled by a voice system, which handles all further processing of the call. Rule processing completes when the call is handed off. If call hand-off is unsuccessful, then processing continues with CallHandlingRules: Continue Existing Call Attempt.

Rule processing is originally invoked by the Parlay/OSA method: IpAppCallControlManager.callEventNotify as described in clauses 6.1.4.1 and 6.1.4.2. Voice interaction content rule processing maps to/from the following Parlay/OSA methods, as illustrated in clause 5.4:

- IpUIManager.createUICall;
- IpUICall.sendInfoReq.

6.1.8.1 Mapping to IpUIManager.createUICall

The IpUIManager.createUICall method is invoked with the following parameters.

Name	Туре	Comment
appUI	IpAppUICallRef	Not mapped: reference to callback (internal).
uiTargetObject	TpUITargetObject	Not mapped. [The value of the callReference parameter of IpAppCallControlManager.callEventNotify, as described in clause 6.1.4.1].

The result from IpUIManager.createUICall is of type TpUICallIdentifier and is used internally to correlate the callbacks.

Parlay exceptions thrown by IpUIManager.createUICall are not mapped to Parlay X exceptions. Instead, processing continues with CallHandlingRules: Continue Existing Call Attempt.

6.1.8.2 Mapping to IpUICall.sendInfoReq

The IpUICall.sendInfoReq method is invoked with the following parameters.

Name	Туре	Comment
userInteraction	TpSessionID	Not mapped: reference to callback (internal). [The value contained in the
SessionID		TpUICallIdentifier parameter returned by
		IpUIManager.createUICall].
info	TpUIInfo	The mapping from VoiceInteraction.TextInfo is described in clause 6.1.8.3
language	TpLanguage	The mapping from VoiceInteraction.VoiceXmI is described
variableInfo	TpUIVariableInfo	in clause 6.1.8.4
	Set	The mapping from VoiceInteraction.Audio is described in clause 6.1.8.5.
repeatIndicator	TpInt32	Not mapped.
response	TpUIResponse	Not mapped. Set to P_UI_FINAL_REQUEST, i.e. no callback methods
Requested	Request	(IpAppUICall.sendInfoRes/Err) will be invoked.

The result from IpUICall.sendInfoReq is of type TpAssignmentID and is ignored.

Parlay exceptions thrown by IpUICall.sendInfoReq are not mapped to Parlay X exceptions. Instead, processing continues with CallHandlingRules: Continue Existing Call Attempt.

6.1.8.3 Mapping of VoiceInteraction.TextInfo

The **VoiceInteraction.TextInfo.Text** element is of type **xsd:string** and represents the text to process and play through a Text-To-Speech engine. It is mapped to the info and variableInfo parameters as follows:

- For ETSI OSA 1.x, Parlay/OSA 3.x and 3GPP Release 4.x and subsequent releases, the **Text** element is mapped to InfoData (info.P_UI_INFO_DATA), which 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.
- The Call Notification web service needs to indicate that text-to-speech processing is required from a network resource. Options for indicating this are vendor-specific.
- One option is to include an indicator in the InfoData parameter: e.g. by prefixing the value of the **Text** element.
- Another option is to use the variableInfo parameter: e.g. the VariablePartInteger or VariablePartAddress element.
- For ETSI OSA 3.x, Parlay/OSA 5.x and 3GPP Release 6.x, an alternative mapping of the **Text** element is to InfoSynthData (info. P_UI_INFO_SYNTHESIS), which describes the content and how the speech synthesis will be done. Specifically **VoiceInteraction.TextInfo.Text** is mapped to the InfoSynthData.TextData field. There is no mapping to the other fields of InfoSynthData that define how the synthesis should be done; these fields are provisioned by the vendor.

The **VoiceInteraction.TextInfo.Language** element is of type **xsd:string** and is mapped to the language parameter.

6.1.8.4 Mapping of VoiceInteraction.VoiceXml

The **VoiceInteraction.VoiceXml** element is of type **xsd:anyURI** and represents the location of VoiceXML to be processed by a VoiceXML browser. It is mapped to the info and variableInfo parameters as follows:

- For ETSI OSA 1.x, Parlay/OSA 3.x and 3GPP Release 4.x and subsequent releases, the **VoiceXml** element is mapped to InfoAddress (info.P_UI_INFO_ADDRESS), which defines the URL of the stream to be sent to an end-user's terminal.
- NOTE: In later releases of the API, the scope of the InfoAddress parameter is expanded to represent the URL of a voice application script or stream to be either sent to an end-user's terminal or invoked in the network in order to carry out the interaction dialogue. However an alternative parameter mapping is also available in later API releases, as described below.
- The Call Notification web service needs to indicate that VoiceXML browser processing is required from a network resource. Options for indicating this are vendor-specific.
- One option is to provide an indicator in the variableInfo parameter: e.g. the VariablePartInteger or VariablePartAddress element.
- For ETSI OSA 3.x, Parlay/OSA 5.x and 3GPP Release 6.x, an alternative mapping of the **VoiceXml** element is to InfoVXMLData (info. P_UI_INFO_VXML), which defines the TpString that describes the VXML (Voice XML) page that is sent to the server for execution and interaction with the end-user. (See http://www.w3.org/TR/2000/NOTE-voicexml-20000505/ for more information.)

There is no mapping from the **VoiceInteraction.VoiceXml** element to the language parameter.

6.1.8.5 Mapping of VoiceInteraction.Audio

The **VoiceInteraction.Audio** element is of type **xsd:anyURI** and represents the location of audio content (WAV or MP3 file) to be played by an audio processor. It is mapped to the info and variableInfo parameters as follows:

- For ETSI OSA 1.x, Parlay/OSA 3.x and 3GPP Release 4.x and subsequent releases, the **Audio** element is mapped to InfoAddress (info.P_UI_INFO_ADDRESS), which defines the URL of the stream to be sent to an end-user's terminal.
- NOTE: In later releases of the API, the scope of the InfoAddress parameter is expanded to represent the URL of a stream to be either sent to an end-user's terminal or invoked in the network in order to carry out the interaction dialogue. However an alternative parameter mapping is also available in later API releases, as described below.
- The Call Notification web service needs to indicate that audio processing is required from a network resource. Options for indicating this are vendor-specific.
- One option is to provide an indicator in the variableInfo parameter: e.g. the VariablePartInteger or VariablePartAddress element.
- For ETSI OSA 2.x, Parlay/OSA 4.x and 3GPP Release 5.x and subsequent releases, an alternative mapping of the **Audio** element is to InfoWaveData (info.P_UI_INFO_WAVE) or InfoAuData (info.P_UI_INFO_AU), which defines the WAVE or AU data to be sent to an end-user's terminal. Both these elements are of type TpOctetSet and should contain the URL value of the **Audio** element. If this is not possible, or if other audio formats are required (e.g. MP3 or others, as specified in the **AudioFormatsSupported** service policy), then the variableInfo parameter can also be used.

There is no mapping from the VoiceInteraction.Audio element to the language parameter.

6.1.9 CallHandlingRules: Continue Existing Call Attempt

If there are no rules specified in the call handling rule database for called party B, or an error occurs when implementing a rule action, then the call attempt is allowed to continue to the original called party B and rule processing is completed.

Rule processing is originally invoked by the Parlay/OSA method: IpAppCallControlManager.callEventNotify as described in clauses 6.1.4.1 and 6.1.4.2. The default action, continue existing call attempt, maps to ONE of the following Parlay/OSA methods, as illustrated in clause 5.3:

- IpCall.routeReq; or
- IpCall.continueProcessing (Parlay 3.4/4.2/5.0 and later versions only).

6.1.9.1 Mapping to IpCall.routeReq

The IpCall.routeReq method is invoked with the following parameters.

Name	Туре	Comment
callSessionID	TpSessionID	Not mapped: derived from the callReference parameter of
		<pre>IpAppCallControlManager.callEventNotify, as described</pre>
		in clause 6.1.4.1.
responseRequested	TpCallReportRequestS	Null: no event reports requested.
	et	
targetAddress	TpAddress	Specifies the destination leg to which the call should be routed: i.e the
		original called party B, mapped as described in TR 102 397-1 [3].
originatingAddress	TpAddress	
originalDestination	TpAddress	Parameters not mapped: derived from the eventInfo parameter of
Address		IpAppCallControlManager.callEventNotify, as described in
redirectingAddress	TpAddress	in clauses 6.1.4.1 and 6.1.4.2.
appInfo	TpCallAppInfoSet	

The result from IpCall.routeReq is of type TpSessionID and is not mapped to the Parlay X interface.

Parlay exceptions thrown by IpCall.routeReq are not mapped to Parlay X exceptions.

6.1.9.2 Mapping to IpCall.continueProcessing (Parlay 3.4/4.2/5.0)

The IpCall.continueProcessing method is invoked with the following parameters.

Name	Туре	Comment
callSessionID	TpSessionID	Not mapped: derived from the callReference parameter of IpAppCallControlManager.callEventNotify, as described in clause 6.1.4.1.

Parlay exceptions thrown by IpCall.continueProcessing are not mapped to Parlay X exceptions.

6.1.10 CallHandlingRules: Reject Call Attempt

The call attempt from A to B may be rejected as a result of call acceptance or call blocking rule processing, as described in clauses 6.1.4 and 6.1.5, respectively, and rule processing is completed.

Reject call attempt processing maps to the Parlay/OSA IpCall.release method.

6.1.10.1 Mapping to IpCall.release

The IpCall.release method is invoked with the following parameters.

Name	Туре	Comment
callSessionID	TpSessionID	Not mapped: derived from the callReference parameter of
		IpAppCallControlManager.callEventNotify, as described in clause 6.1.4.1.
cause	TpCallReleaseCause	Not mapped. Value should indicate application-directed termination of the call attampt.

Parlay exceptions thrown by IpCall.release are not mapped to Parlay X exceptions.

6.2 Exceptions

For the present document, the mapping of Parlay/OSA API method exceptions to Parlay X Web Service exceptions is common and defined in TR 102 397-1 [3]. There are no service-specific exception mappings.

7 Additional notes

No additional notes.

History

Document history				
V1.1.1	August 2005	Publication		