Oracle® Communications Services Gatekeeper

Statement of Compliance

Release 5.0

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Preface

This document is a statement of compliance for the communication services supported by Oracle Communications Services Gatekeeper.

Audience

This document is for system administrators who manage Oracle Communications Services Gatekeeper, as well as managers, support engineers, sales, and marketing.

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Related Documents

For more information, see the following documents in the Oracle Communications Services Gatekeeper set:

- *Accounts and SLAs Guide*
- *Alarm Handling Guide*
- *Application Development*
- *Communication Service Guide*
- *Concepts Guide*
- *Installation Guide*
- *Licensing Guide*
- *Partner Relationship Management Guide*
- *Platform Development Studio Developer's Guide*
- *Platform Test Environment Guide*
- *RESTful Application Development Guide*
- *SDK User Guide*
- *System Administrator's Guide*
- *System Backup and Restore Guide*

1

Parlay X 2. 1 Third Party Call

The following chapter describes the standard Oracle Communications Services Gatekeeper communication services and how the interfaces and protocols comply to standards.

- Parlay X 2.1 Third Party Call Statement of compliance
- SIP for Parlay X 2.1 Third Party Call
- SS7/INAP for Parlay X 2.1 Third Party Call

Parlay X 2.1 Third Party Call Statement of compliance

This section describes the standards compliance for the communication services for Parlay X 2.1 Third Party call

The Parlay X 2.1 interface complies to ETSI ES 202 391-2 V1.2.1 Open Service Access (OSA); Parlay X Web Services; Part 2: Third Party Call (Parlay X 2)

See

`http://docbox.etsi.org/TISPAN/Open/OSA/ParlayX21.html`

for links to the specification.

Table 1–1   Statement of Compliance, Parlay X 2.1 Third Party Call

Method	Compliant (Yes | No)	Comment
Interface: ThirdPartyCall		
MakeCall	Y	
GetCallInformation	Y	
EndCall	Y	
CancelCall	Y	

SIP for Parlay X 2.1 Third Party Call

The SIP plug-in for Parlay X 2.1 Third Party Call is an integration plug-in that utilizes Oracle Converged Application Server (OCCAS) to connect to a SIP/IMS network. The plug-in connects to a SIP servlet executing in OCCAS. The SIP Servlet uses the SIP API provided by the OCCAS, which in its turn converts the API calls to SIP messages.

The SIP servlet acts as a Back-to-Back User Agent for all calls.

Standards Compliance

The SIP servlet uses the WebLogic SIP server, which conforms to RFC 3261.

The RFC is found on http://www.ietf.org/rfc/rfc3261.txt

The implementation of the SIP based third party call is in compliance with RFC 3725 - Best Current Practices for Third Party Call Control (3pcc) in the Session Initiation Protocol (SIP) Flow I.

The RFC is found on http://www.ietf.org/rfc/rfc3725.txt

Table 1–2   Statement of Compliance, SIP for Parlay X 2.1 Third Party Call

Message/Response	Compliant (Yes/No)	Comment
REGISTER	-	Not used in the context.
INVITE	Y	
ACK	Y	
CANCEL	Y	
BYE	Y	
OPTIONS	-	Not used in the context.
100 Trying	Y	
180 Ringing	Y	
181 Call Is Being Forwarded	Y	
182 Queued	Y	
183 Session Progress	Y	
200 OK	Y	
300 Multiple Choices	Y	UA treated as unreachable.
301 Moved Permanently	Y	UA treated as unreachable.
302 Moved Temporarily	Y	UA treated as unreachable.
305 Use Proxy	Y	UA treated as unreachable.
380 Alternative Service	Y	UA treated as unreachable.
400 Bad Request	Y	UA treated as unreachable
401 Unauthorized	Y	UA treated as unreachable
402 Payment Required	Y	UA treated as unreachable
403 Forbidden	Y	UA treated as unreachable
404 Not Found	Y	UA treated as unreachable
405 Method Not Allowed	Y	UA treated as unreachable
406 Not Acceptable	Y	UA treated as unreachable
407 Proxy Authentication Required	Y	UA treated as unreachable
408 Request Timeout	Y	Treated as no answer from UA.
410 Gone	Y	UA treated as unreachable
413 Request Entity Too Large	Y	UA treated as unreachable
414 Request-URI Too Long	Y	UA treated as unreachable

Table 1–2   (Cont.) Statement of Compliance, SIP for Parlay X 2.1 Third Party Call

Message/Response	Compliant (Yes/No)	Comment
415 Unsupported Media Type	Y	UA treated as unreachable
416 Unsupported URI Scheme	Y	UA treated as unreachable
420 Bad Extension	Y	UA treated as unreachable
421 Extension Required	Y	UA treated as unreachable
423 Interval Too Brief	Y	UA treated as unreachable
480 Temporarily Unavailable	Y	UA treated as unreachable
481 Call/Transaction Does Not Exist	Y	UA treated as unreachable
482 Loop Detected	Y	UA treated as unreachable
483 Too Many Hops	Y	UA treated as unreachable
484 Address Incomplete	Y	UA treated as unreachable
485 Ambiguous	Y	UA treated as unreachable
486 Busy Here	Y	UA treated as busy.
487 Request Terminated	Y	UA treated as unreachable
488 Not Acceptable Here	YN	UA treated as unreachable
491 Request Pending	Y	UA treated as unreachable
493 Undecipherable	Y	UA treated as unreachable
500 Server Internal Error	Y	UA treated as unreachable
501 Not Implemented	Y	UA treated as unreachable
502 Bad Gateway	Y	UA treated as unreachable
503 Service Unavailable	Y	UA treated as unreachable
504 Server Time-out	Y	UA treated as unreachable
505 Version Not Supported	Y	UA treated as unreachable
513 Message Too Large	Y	UA treated as unreachable.
600 Busy Everywhere	Y	UA treated as unreachable
603 Decline	Y	UA treated as unreachable
604 Does Not Exist Anywhere	Y	UA treated as unreachable.
606 Not Acceptable	Y	UA treated as unreachable

SS7/INAP for Parlay X 2.1 Third Party Call

The SS7/INAP plug-in for Parlay X 2.1 Third Party Call is an integration plug-in that utilizes the TietoEnator SS7 stack to connect to a SS7 network. The plug-in uses TietoEnator's Java INAP API to connect to the SS7 stack.

The plug-in acts as an INAP Application for all calls.

Standards Compliance

The plug-in conforms to ETSI 94 INAP CS1, ETS 300 374-1RFC 3261.

The specification is found on `http://webapp.etsi.org/workprogram/Report_WorkItem.asp?WKI_ID=1394`

Table 1–3 Statement of Compliance, INAP/SS7 for Parlay X 2.1 Third Party Call

Operation	Compliant (Yes/No)	Comment
ActivateServiceFiltering	N	Not used in context.
ActivityTest	N	Not used in context.
ApplyCharging	N	Not used in context.
ApplyChargingReport	N	Not used in context.
AssistRequestInstructions	N	Not used in context.
CallGap	N	Not used in context.
CallInformationReport	N	Not used in context.
CallInformationRequest	N	Not used in context.
Cancel	N	Not used in context.
CollectInformation	N	Not used in context.
Connect	Y	
ConnectToResource	N	Not used in context.
Continue	Y	
DisconnectForwardConnection	N	Not used in context.
EstablishTemporaryConnection	N	Not used in context.
EventNotificationCharging	N	Not used in context.
EventReportBCSM	Y	
FurnishChargingInformation	N	Not used in context.
InitialDP	N	Not used in context.
InitiateCallAttempt	Y	
PlayAnnouncement	N	Not used in context.
PromptAndCollectUserInformation	N	Not used in context.
ReleaseCall	Y	
RequestNotificationChargingEvent	N	Not used in context.
RequestReportBCSMEvent	Y	
ResetTimer	N	Not used in context.
SendChargingInformation	N	Not used in context.
ServiceFilteringResponse	N	Not used in context.
SpecializedResourceReport	N	Not used in context.

2

Parlay X 3.0 Third Party Call

The following chapter describes the standard Oracle Communications Services Gatekeeper Parlay X 3.0 communication service and how its interfaces and protocols comply with standards.

- Parlay X 3.0 Third Party Call Statement of Compliance
- Parlay 3.3 MultiParty Call Control plug-in for Parlay X 3.0 Third Party Call

Parlay X 3.0 Third Party Call Statement of Compliance

This section describes the standards compliance for the communication service for Parlay X 3.0 Third Party call:

The Parlay X 3.0 interface complies to ETSI ES 202 504-2 v0.0.5 (2007-06) Open Service Access (OSA); Parlay X Web Services; Part 2: Third Party Call (Parlay X 3.0).

See `http://docbox.etsi.org/TISPAN/Open/OSA/ParlayX30.html` for links to the specification.

Table 2–1   Statement of Compliance, Parlay X 3.0 Third Party Call

Method	Compliant (Yes | No)	Comment
Interface: ThirdPartyCall		
makeCallSession	Y	`mediaInfo` parameter not supported; `changeMediaNotAllowed` always true. Media always negotiated by underlying network.
addCallParticipant	Y	`mediaInfo` parameter not supported
transferCallParticipant	Y	
getCallParticipantInformation	Y	
getCallSessionInformation	Y	
deleteCallParticipant	Y	
endCallSession	Y	

Parlay 3.3 MultiParty Call Control plug-in for Parlay X 3.0 Third Party Call

The Parlay 3.3 MultiParty Call Control plug-in for Parlay X 3.0 Third Party Call acts as a OSA/Parlay application towards an OSA/Parlay Gateway. It uses the OSA/Parlay

Framework to get hold of the MultiParty Call Control SCS. This is done via the OSA Access Service, see Chapter 19, "Parlay 3.3 Framework for plug-ins of Parlay type."

Standards Compliance

The plug-in complies to ETSI ES 201 915-4 V1.4.1 (2003-07), Open Service Access (OSA); Application Programming Interface (API); Part 4: Call Control SCF (Parlay 3), part MultiParty Call Control Service.

A link to the specification is found at
http://docbox.etsi.org/TISPAN/Open/OSA/ParlayX30.html

Table 2–2   Statement of Compliance, Parlay 3.1 MultiParty Call Control for Parlay X 3.0 Third Party Call

Method	Compliant (Yes | No)	Comment
Interface: IpMultiPartyCallControlManager		
createCall	Y	
createNotification	N	Not used in the context
destroyNotification	N	Not used in the context
changeNotification	N	Not used in the context
getNotification	N	Not used in the context
setCallLoadControl	N	Not used in the context
Interface: IpMultiPartyCall		
getCallLegs	N	Not used in the context
createCallLeg	Y	
createAndRouteCallLegReq	N	Not used in the context
release	Y	
deassignCall	N	Not used in the context
getInfoReq	Y	
setChargePlan	N	Not used in the context
setAdviceOfCharge	N	Not used in the context
superviseReq	N	Not used in the context
Interface: IpCallLeg		
routeReq	Y	
eventReportReq	Y	
release	Y	
getInfoReq	Y	
getCall	N	Not used in the context
attachMediaReq	N	Not used in the context
detachMediaReq	N	Not used in the context
getCurrentDestinationAddress	N	Not used in the context
continueProcessing	Y	

Table 2–2   (Cont.) Statement of Compliance, Parlay 3.1 MultiParty Call Control for Parlay X 3.0 Third Party Call

Method	Compliant (Yes | No)	Comment
setChargePlan	N	Not used in the context
setAdviceOfCharge	N	Not used in the context
superviseReq	N	Not used in the context
deassign	N	Not used in the context
Interface: IpAppMultiPartyCallControlManager		
reportNotification	N	Not used in the context
callAborted	N	Not used in the context
managerInterrupted	N	Not used in the context
managerResumed	N	Not used in the context
callOverloadEncountered	N	Not used in the context
callOverloadCeased	N	Not used in the context
Interface: IpAppMultiPartyCall		
getInfoRes	Y	
getInfoErr	Y	
superviseRes	N	Not used in the context
superviseErr	N	Not used in the context
callEnded	Y	
createAndRouteCallLegErr	N	Not used in the context
Interface: IpAppCallLeg		
eventReportRes	Y	
eventReportErr	Y	
attachMediaRes	N	Not used in the context
attachMediaErr	N	Not used in the context
detachMediaRes	N	Not used in the context
detachMediaErr	N	Not used in the context
getInfoRes	Y	
getInfoErr	Y	
routeErr	Y	Not used in the context
superviseRes	N	Not used in the context
superviseErr	N	Not used in the context
callLegEnded	Y	

3

Parlay X 2. 1 Call Notification

The following chapter describes the standard Oracle Communications Services Gatekeeper Parlay 2.1 Call Notification communication services and how the interfaces and protocols comply to standards.

- Parlay X 2.1 Call Notification Statement of Compliance
- SIP for Parlay X 2.1 Call Notification

Parlay X 2.1 Call Notification Statement of Compliance

This section describes the standards compliance for the communication services for Parlay X 2.1 Call notification:

The Parlay X 2.1 interface complies to ETSI ES 202 391-3 V1.2.1 (2006-12) Open Service Access (OSA); Parlay X Web Services; Part 3: Call Notification (Parlay X 2). See

`http://docbox.etsi.org/TISPAN/Open/OSA/ParlayX21.html`

for links to the specification.

Table 3–1   Statement of Compliance, Parlay X 2.1 Call Notification

Method	Compliant (Yes | No)	Comment
Interface: CallDirection		
handleBusy	Y	
handleNotReachable	Y	
handleNoAnswer	Y	
handleCalledNumber	Y	
Interface: CallNotification		
notifyBusy	Y	
notifyNotReachable	Y	
notifyNoAnswer	Y	
notifyCalledNumber	Y	
Interface: CallDirectionManager		
startCallDirectionNotification	Y	
stopCallDirectionNotification	Y	
Interface: CallNotificationManager		

Table 3–1   (Cont.) Statement of Compliance, Parlay X 2.1 Call Notification

Method	Compliant (Yes | No)	Comment
StartCallNotification	Y	
stopCallNotification	Y	

SIP for Parlay X 2.1 Call Notification

The SIP plug-in for Parlay X 2.1 Call Notification is an integration plug-in that utilizes the Oracle Converged Application Server (OCCAS) to connect to a SIP/IMS network. The plug-in connects to a SIP servlet executing in WebLogic SIP Server. The SIP Servlet uses the SIP API provided by the WebLogic SIP server, which in its turn converts the API calls to SIP messages.

The SIP servlet acts as both as a SIP User Agent and a SIP Proxy. Depending on which Parlay X operation and state of the call the SIP servlet acts either as a proxy or as the calling party. This means that the calling UA must use WebLogic SIP server as a SIP Proxy.

Standards Compliance

The SIP servlet uses the WebLogic SIP server, which conforms to RFC 3261.

The specification is found on http://www.ietf.org/rfc/rfc3261.txt

Table 3–2   Statement of Compliance, SIP for Parlay X 2.1 Call Notification

Message/Response	Compliant (Yes/No)	Comment
REGISTER	-	Not used in the context.
INVITE	Y	
ACK	Y	
CANCEL	Y	
BYE	Y	
OPTIONS	-	Not used in the context.
INFO	-	Not used in the context.
100 Trying	Y	
180 Ringing	Y	
181 Call Is Being Forwarded	Y	Not used in the context.
182 Queued	Y	Not used in the context.
183 Session Progress	Y	Not used in the context.
200 OK	Y	
300 Multiple Choices	Y	UA treated as unreachable.
301 Moved Permanently	Y	UA treated as unreachable.
302 Moved Temporarily	Y	UA treated as unreachable.
305 Use Proxy	Y	UA treated as unreachable.
380 Alternative Service	Y	UA treated as unreachable.

Table 3–2   (Cont.) Statement of Compliance, SIP for Parlay X 2.1 Call Notification

Message/Response	Compliant (Yes/No)	Comment
400 Bad Request	Y	UA treated as unreachable
401 Unauthorized	Y	UA treated as unreachable
402 Payment Required	Y	UA treated as unreachable
403 Forbidden	Y	UA treated as unreachable
404 Not Found	Y	UA treated as unreachable
405 Method Not Allowed	Y	UA treated as unreachable
406 Not Acceptable	Y	UA treated as unreachable
407 Proxy Authentication Required	Y	UA treated as unreachable
408 Request Timeout	Y	Treated as no answer from UA.
410 Gone	Y	UA treated as unreachable
413 Request Entity Too Large	Y	UA treated as unreachable
414 Request-URI Too Long	Y	UA treated as unreachable
415 Unsupported Media Type	Y	UA treated as unreachable
416 Unsupported URI Scheme	Y	UA treated as unreachable
420 Bad Extension	Y	UA treated as unreachable
421 Extension Required	Y	UA treated as unreachable
423 Interval Too Brief	Y	UA treated as unreachable
480 Temporarily Unavailable	Y	UA treated as unreachable
481 Call/Transaction Does Not Exist	Y	UA treated as unreachable
482 Loop Detected	Y	UA treated as unreachable
483 Too Many Hops	Y	UA treated as unreachable
484 Address Incomplete	Y	UA treated as unreachable
485 Ambiguous	Y	UA treated as unreachable
486 Busy Here	Y	
487 Request Terminated	Y	UA treated as unreachable
488 Not Acceptable Here	Y	UA treated as unreachable
491 Request Pending	Y	UA treated as unreachable
493 Undecipherable	Y	UA treated as unreachable
500 Server Internal Error	Y	UA treated as unreachable
501 Not Implemented	Y	UA treated as unreachable
502 Bad Gateway	Y	UA treated as unreachable
503 Service Unavailable	Y	UA treated as unreachable
504 Server Time-out	Y	UA treated as unreachable
505 Version Not Supported	Y	UA treated as unreachable
513 Message Too Large	Y	UA treated as unreachable
600 Busy Everywhere	Y	UA treated as unreachable

Table 3–2   (Cont.) Statement of Compliance, SIP for Parlay X 2.1 Call Notification

Message/Response	Compliant (Yes/No)	Comment
603 Decline	Y	UA treated as unreachable
604 Does Not Exist Anywhere	Y	UA treated as unreachable
606 Not Acceptable	Y	UA treated as unreachable

Note: When a Parlay X application returns `ActionValues.Route` in `Action.actionToPerform` as a response to operations in Interface: `CallDirection`, a record-route header is inserted in the SIP Message the in order to stay in the call path.

4

Parlay X 3.0 Call Notification

The following chapter describes the standard Oracle Communications Services Gatekeeper Call Notification communication services and how their interfaces and protocols comply to standards.

- Parlay X 3.0 Call Notification Statement of Compliance
- Parlay 3.3 MultiParty Call Control for Parlay X 3.0 Call Notification

Parlay X 3.0 Call Notification Statement of Compliance

This section describes the standards compliance for the communication service for Parlay X 3.0 Call Notification to Parlay 3.3 MultipParty Call Control:

The Parlay X 3.0 interface complies to Draft ETSI ES 202 504-3 v0.0.3 (2007-06), Open Service Access (OSA); Parlay X Web Services; Part 3: Call Notification (Parlay X 3).

See

http://docbox.etsi.org/TISPAN/Open/OSA/ParlayX30.html

for links to the specification.

Table 4–1   Statement of Compliance, Parlay X 3.0 Call Notification

Method	Compliant (Yes | No)	Comment
Interface: CallDirection		
handleBusy	Y	
handleNotReachable	Y	
handleNoAnswer	Y	
handleCalledNumber	Y	
Interface: CallNotification		
notifyBusy	Y	
notifyNotReachable	Y	
notifyNoAnswer	Y	
notifyCalledNumber	Y	
notifyAnswer	Y	
notifyPlayAndCollectEvent	Y	
notifyPlayAndRecordEvent	N	

Table 4–1 (Cont.) Statement of Compliance, Parlay X 3.0 Call Notification

Method	Compliant (Yes | No)	Comment
Interface: CallDirectionManager		
startCallDirectionNotification	Y	
stopCallDirectionNotification	Y	
Interface: CallNotificationManager		
StartCallNotification	Y	
stopCallNotification	Y	
startPlayAndCollectNotification	Y	
startPlayAndRecordNotification	N	
stopMediaInteractionNotification	Y	

Parlay 3.3 MultiParty Call Control for Parlay X 3.0 Call Notification

The Parlay 3.3 MultiParty Call Control plug-in for Parlay X 3.0 Call Notification acts as a OSA/Parlay application towards an OSA/Parlay Gateway. It uses the OSA/Parlay Framework to get hold of the MultiParty Call Control SCS. This is done via the OSA Access Service, see Chapter 19, "Parlay 3.3 Framework for plug-ins of Parlay type."

Standards Compliance

The plug-in complies to ETSI ES 201 915-4 V1.4.1 (2003-07), Open Service Access (OSA); Application Programming Interface (API); Part 4: Call Control SCF (Parlay 3), part MultiParty Call Control Service.

It also complies with ETSI ES 201 915-5 V1.4.1 (2003-07), Open Service Access (OSA); Application Programming Interface (API); Part 5: User Interaction SCF (Parlay 3).

Links to the specifications are found at

http://www.etsi.org/deliver/etsi_es/201900_
201999/20191505/01.04.01_60/es_20191505v010401p.pdf

Table 4–2 Statement of Compliance, Parlay 3.3 MultiParty Call Control for Parlay X 2.1 Call Notification

Method	Compliant (Yes | No)	Comment
Interface: IpMultiPartyCallControlManager		
createCall	N	Not used in the context
createNotification	Y	
destroyNotification	Y	
changeNotification	N	Not used in the context
getNotification	N	Not used in the context
setCallLoadControl	N	Not used in the context
Interface: IpMultiPartyCall		

Table 4–2   (Cont.) Statement of Compliance, Parlay 3.3 MultiParty Call Control for Parlay X 2.1 Call Notification

Method	Compliant (Yes | No)	Comment
getCallLegs	N	Not used in the context
createCallLeg	N	Not used in the context
createAndRouteCallLegReq	Y	
release	Y	
deassignCall	N	Not used in the context
getInfoReq	N	Not used in the context
setChargePlan	N	Not used in the context
setAdviceOfCharge	N	Not used in the context
superviseReq	N	Not used in the context
Interface: IpCallLeg		
routeReq	N	Not used in the context
eventReportReq	N	Not used in the context
release	N	Not used in the context
getInfoReq	N	Not used in the context
getCall	N	Not used in the context
attachMediaReq	N	Not used in the context
detachMediaReq	N	Not used in the context
getCurrentDestinationAddress	N	Not used in the context
getLastRedirectedAddress	N	Not used in the context
continueProcessing	Y	
setChargePlan	N	Not used in the context
setAdviceOfCharge	N	Not used in the context
superviseReq	N	Not used in the context
deassign	N	Not used in the context
Interface: IpAppMultiPartyCallControlManager		
reportNotification	Y	
callAborted	Y	Consumed without action.
managerInterrupted	Y	Consumed without action.
managerResumed	Y	Consumed without action.
callOverloadEncountered	Y	Consumed without action.
callOverloadCeased	Y	Consumed without action.
Interface: IpAppMultiPartyCall		
getInfoRes	Y	
getInfoErr	Y	Consumed without action.
superviseRes	Y	Consumed without action.

Table 4–2 (Cont.) Statement of Compliance, Parlay 3.3 MultiParty Call Control for Parlay X 2.1 Call Notification

Method	Compliant (Yes | No)	Comment
superviseErr	Y	Consumed without action.
callEnded	Y	
createAndRouteCallLegErr	Y	Consumed without action.
Interface: IpAppCallLeg		
eventReportRes	Y	Consumed without action.
eventReportErr	Y	Consumed without action.
attachMediaRes	Y	Consumed without action.
attachMediaErr	Y	Consumed without action.
detachMediaRes	Y	Consumed without action.
detachMediaErr	Y	Consumed without action.
getInfoRes	Y	Consumed without action.
getInfoErr	Y	Consumed without action.
routeErr	Y	Consumed without action.
superviseRes	Y	Consumed without action.
superviseErr	Y	Consumed without action.
callLegEnded	Y	

Table 4–3 Statement of Compliance, Parlay 3.3 User Interaction for Parlay X 2.1 Call Notification

Method	Compliant (Yes | No)	Comment
Interface: IpUIManager		
createUI	N	Not used in the context
createUICall	N	Not used in the context
createNotification	N	Not used in the context
destroyNotification	N	Not used in the context
changeNotification	N	Not used in the context
getNotification	N	Not used in the context
Interface: IpAppUIManager		
userInteractionAborted	N	Not used in the context
reportNotification	N	Not used in the context
userInteractionNotificationInterrupted	N	Not used in the context
userInteractionNotificationContinued	N	Not used in the context
reportEventNotification	N	Not used in the context
Interface: IpUI		
sendInfoReq	N	Not used in the context

Table 4–3   (Cont.) Statement of Compliance, Parlay 3.3 User Interaction for Parlay X 2.1 Call Notification

Method	Compliant (Yes | No)	Comment
sendInfoAndCollectReq	N	Not used in the context
release	N	Not used in the context
Interface: IpAppUI		
sendInfoRes	N	Not used in the context
sendInfoErr	N	Not used in the context
sendInfoAndCollectRes	Y	
sendInfoAndCollectErr	N	Not used in the context
userInteractionFaultDetected	N	Not used in the context
Interface: IpUICall		
recordMessageReq	N	Not used in the context
deleteMessageReq	N	Not used in the context
abortActionReq	N	Not used in the context
Interface: IpAppUICall		
recordMessageRes	N	Not used in the context
recordMessageErr	N	Not used in the context
deleteMessageRes	N	Not used in the context
deleteMessageErr	N	Not used in the context
abortActionRes	N	Not used in the context
abortActionErr	N	Not used in the context

5

Parlay X 2.1 Short Messaging (including EWS Binary SMS)

The following chapter describes the standard Oracle Communications Services Gatekeeper communication services and how the interfaces and protocols comply to standards.

- Parlay X 2.1 Short Messaging Statement of compliance
- SMPP v3.4 for Parlay X 2.1/Extended Web Services Binary SMS

Parlay X 2.1 Short Messaging Statement of compliance

This section describes the standards compliance for the communication services for Parlay X 2.1:

The Parlay X 2.1 interface complies with ETSI ES 202 391-4 V1.2.1 (2006-12) Open Service Access (OSA); Parlay X Web Services; Part 4: Short Messaging (Parlay X 2).

See

`http://docbox.etsi.org/TISPAN/Open/OSA/ParlayX21.html`

for links to the specification.

Table 5–1   Statement of Compliance, Parlay X 2.1 Short Messaging

Method	Compliant (Yes | No)	Comment
Interface: SendSms		
sendSms	Y	
sendSmsLogo	Y	Note: The image is not scaled.
sendSmsRingtone	Y	Note: Ringtones must be in either SmartMessaging or EMS (iMelody) format
getSmsDeliveryStatus	Y	
Interface: SmsNotification		
notifySmsReception	Y	
notifySmsDeliveryReceipt	Y	
Interface: ReceiveSms		
getReceivedSms	Y	
Interface: SmsNotificationManager		

Table 5–1 (Cont.) Statement of Compliance, Parlay X 2.1 Short Messaging

Method	Compliant (Yes | No)	Comment
startSmsNotification	Y	
stopSmsNotification	Y	

SMPP v3.4 for Parlay X 2.1/Extended Web Services Binary SMS

The SMPP v3.4 plug-in for Parlay X 2.1 Short Messaging and for the Extended Web Services (Binary SMS) acts as an External Short Message Entity (ESME) that connects to an SMSC over TCP/IP.

The plug-in instance binds itself to the SMSC either as ESME Transmitter and an ESME Receiver or as an ESME Transceiver.

The bindings occurs when the plug-in transitions from state inactive to active. It will not reach state active until it has bound. The plug-in unbinds itself prior to becoming inactive.

When an application sends an SMS with one recipient submit_sm PDU is used and when sending an SMS with 2 or more recipients submit_sm_multi is used.

Window size is configurable.

For application-initiated requests, the plug-in supports segmented SMSs using either 7-, 8-, or 16 bit data coding. The maximum length of an SMS segment is:

- 160 Characters for 7 bit data coding (SMSC default alphabet).
- 140 Characters for 8 bit data coding (ASCII).
- 70 Characters for 16bit coding (UCS2).

For network-triggered requests, the plug-in supports segmented SMSs in the same way as for application-initiated requests if the SMPP parameter short_message contains the user data. If short_message is empty the parameter message_payload, which can contain up to 64KB of data, is used.

For network-triggered requests, the SMS is propagated to the application via the Parlay X Short Messaging interface if the SMPP parameter data_coding equals 0x00, 0x01, 0x03, 0x05, 0x06, 0x07, 0x08, 0x0A, 0x0D, or 0x0E. In other cases, the SMS is forwarded to the application via the Binary SMS interface.

Standards Compliance

The plug-in complies to Short Message Peer to Peer, Protocol Specification v3.4, Document Version:- 12-Oct-1999 Issue 1.2.

Table 5–2 Statement of Compliance, SMPP v3.4 for Parlay X 2.1 Short Messaging

Protocol Data Units (PDUs)	Compliant (Yes | No)	Comment
Plug-in originated PDUs:		
bind_transmitter	Y	
bind_receiver	Y	
unbind	Y	

Table 5–2   (Cont.) Statement of Compliance, SMPP v3.4 for Parlay X 2.1 Short Messaging

Protocol Data Units (PDUs)	Compliant (Yes | No)	Comment
submit_sm	Y	
submit_multi	Y	
deliver_sm_resp	Y	
cancel_sm	Y	
enquire_link	Y	
enquire_link_resp	Y	
generic_nack	Y	
bind_transceiver	Y	
data_sm	N	
data_sm_resp	N	
query_sm	N	
replace_sm	N	
SMSC originated PDUs:		
bind_transmitter_resp	Y	
bind_receiver_resp	Y	
unbind_resp	Y	
submit_sm_resp	Y	esm_classes: ■ Default message Type ■ SMSC Delivery receipt
submit_multi_resp	Y	
deliver_sm	Y	
cancel_sm_resp	Y	
enquire_link	Y	
enquire_link_resp	Y	
generic_nack	Y	
bind_transceiver_resp	Y	
outbind	N	
data_sm	N	
data_sm_resp	N	
query_sm_resp	N	
replace_sm_resp	N	
alert_notification	N	

The Parlay X 2.1 Short Messaging and EWS Binary SMS communication services support the following features, which are defined in the Short Message Peer-to-Peer Protocol Specification, Version 5.0. Services Gatekeeper supports these features as tunneled parameters.

Table 5–3   Statement of Compliance for Version 5.0 Features

Parameter	Section in Specification	Comments
billing_identification	4.8.4.3	
ussd_service_operation	4.8.4.64	Version 5.0 added support to deliver_sm for bidrectional USSD.
interface_version	4.7.13	The Native SMPP Service accepts 5.0 as well as 3.4 as the interface version number.

6

Parlay X 2.1 Multimedia Messaging

The following chapter describes the standard Oracle Communications Services Gatekeeper communication services communication services and how the interfaces and protocols complies to standards.

- Parlay X 2.1 Multimedia Messaging Statement of compliance
- MM7 v 5.3 for Parlay X 2.1 Multimedia Messaging

Parlay X 2.1 Multimedia Messaging Statement of compliance

This section describes the standards compliance for the communication services for Parlay X 2.1 Multimedia Messaging:

The Parlay X 2.1 interface complies to ETSI ES 202 391-5 V1.2.1 (2006-10) Open Service Access (OSA); Parlay X Web Services; Part 5: Multimedia Messaging (Parlay X 2).

See `http://docbox.etsi.org/TISPAN/Open/OSA/ParlayX21.html` for links to the specification.

Table 6–1   Statement of Compliance, Parlay X 2.1 Multimedia Messaging

Method	Compliant (Yes | No)	Comment
Interface: SendMessage		
SendMessage	Y	
GetMessageDeliveryStatus	Y	
Interface: ReceiveMessage		
GetReceivedMessages	Y	
GetMessageURIs	N	throws an exception 'not supported'
GetMessage	Y	
Interface: MessageNotification		
NotifyMessageReception	Y	
NotifyMessageDeliveryReceipt	Y	
Interface: MessageNotificationManager		
StartMessageNotification	Y	
StopMessageNotification	Y	

MM7 v 5.3 for Parlay X 2.1 Multimedia Messaging

The MM7 plug-in for Parlay for Parlay X 2.1 Multimedia Messaging acts as an MMS VAS Application towards an MMS Relay/Server using the MM7 interface. It connects to the MMS/Relay Server using SOAP 1.1 over HTPP. It supports HTTP Basic Authentication for authentication.

The plug-in itself may act as one single MMS VAS Application, or, alternatively, the Service Provider ID acts as the VASP (Value Added Service Provider) ID and the Application ID/Application Instance Group ID combination acts as the VAS (Value Added Service) ID.

Standards Compliance

The plug-in complies to 3rd Generation Partnership Project; Technical Specification Group Terminals; Multimedia Messaging Service (MMS); Functional description; Stage 2 (Release 5), 3GPP TS 23.140 V5.3.0. Messages are compliant with XSD schemes defined with name space `http://www.3gpp.org/ftp/Specs/archive/23_series/23.140/schema/REL-5-MM7-1-2`

It also supports the 7-1-0 XSD, adapted to support delivery notifications, Rel5-mm7-1-2.xsd, and 7-1-5 XSD.

A link to the specification is found on `http://www.3gpp.org/ftp/Specs/html-info/23140.htm`

The plug-in support MSISDN (E.164) addresses and mailto URIs.

It supports authentication using HTTP Basic Authentication according to HTTP Authentication: Basic and Digest Access Authentication, IETF; RFC 2617.

Table 6–2   Statement of Compliance,MM7 v 5.3 for Parlay X 2.1 Multimedia Messaging

Operation	Compliant (Yes | No)	Comment
Plug-in originated operations:		
MM7_submit.REQ	Y	
MM7_cancel.REQ	N	Not used in this context
MM7_delivery_report.RES	Y	
MM7_deliver.RES	Y	
MM7_replace.REQ	N	Not used in this context
MM7_read_reply.RES	N	Not used in this context
MM7_VASP_error.RES	N	Not used in this context
MMSC originated operations:		
MM7_submit.RES	Y	
MM7_cancel.RES	N	Not used in this context
MM7_delivery_report.REQ	Y	
MM7_deliver.REQ	Y	
MM7_RS_error.RES	Y	
MM7_replace.RES	N	Not used in this context
MM7_read_reply.REQ	N	Not used in this context

MM7 v 6.8.0 for Parlay X 2.1 Multimedia Messaging

This section describes the MM7 plug-in's compliance with the specification. See

http://www.3gpp.org/ftp/Specs/html-info/23140.htm

for the version 6.8.0 specification.

Services Gatekeeper supports all mandatory parameters described in the MM7 specification. It also supports some optional parameters through plug-in mbean attributes or as context attributes as part of the Parlay X request.

The plug-in supports the following operations and parameters.

Table 6–3   Compliance for MM7 Submit Operation

Parameter	Mandatory or Optional	Compliant
TransactionID	Mandatory	Y
MM7Version	Mandatory	Y
MessageType	Mandatory	Y
Sender Identification	Optional	Y-SenderAddress,VASPID,VASID
RecipientAddress	Mandatory	Y
ServiceCode	Optional	Y
LinkedID	Optional	N
MessageClass	Optional	N
TimeStamp	Optional	N
ReplyChargingID	Optional	N
EarliestDeliveryTime	Optional	N
ExpiryDate	Optional	N
DeliveryReport	Optional	Y
ReadReply	Optional	N
Priority	Optional	Y
Subject	Optional	Y
ChargedParty	Optional	Y
ChargedPartyID	Optional	Y
DistributionIndicator	Optional	N
Content	Optional	N
Content-Type	Mandatory	Y

Table 6–4   Compliance for MM7 Submit Response Operation

Parameter	Mandatory, Conditional,or Optional	Compliant
TransactionID	Mandatory	Y
MM7Version	Mandatory	Y
Status	Mandatory	Y
MessageID	Conditional	Y

Table 6–5   Compliance for MM7 Deliver Operation

Parameter	Mandatory or Optional	Compliant
TransactionID	Mandatory	Y
MM7Version	Mandatory	Y
MMSRelayServerID	Optional	Y
LinkedID	Optional	N
Sender	Mandatory	Y
Recipients	Optional	Y
TimeStamp	Optional	Y
ReplyChargingID	Optional	N
Priority	Optional	Y
Subject	Optional	Y
Content	Optional	Y
Content-Type	Mandatory	Y

Table 6–6   Compliance for MM7 Deliver Response Operation

Parameter	Mandatory or Optional	Compliant
TransactionID	Mandatory	Y
MM7Version	Mandatory	Y
ServiceCode	Optional	Y
Status	Mandatory	Y

Table 6–7   Compliance for MM7 Delivery Report Operation

Parameter	Mandatory or Optional	Compliant
TransactionID	Mandatory	Y
MM7Version	Mandatory	Y
MMSRelayServerID	Optional	Y
MessageID	Mandatory	Y
Recipient	Mandatory	Y
Sender	Mandatory	Y
Date	Mandatory	Y
MMStatus	Mandatory	Y

Table 6–8   Compliance for MM7 Delivery Report Response Operation

Parameter	Mandatory or Optional	Compliant
TransactionID	Mandatory	Y
MM7Version	Mandatory	Y
Status	Mandatory	Y

7

Parlay X 3.0 Payment

The following chapter describes the standard Network Gatekeeper communication services communication services and how the interfaces and protocols complies to standards.

- Parlay X 3.0 Payment

- Diameter for Parlay X 3.0 Payment

Parlay X 3.0 Payment

This section describes the standards compliance for the communication services for Parlay X 3.0 Payment:

- Diameter for Parlay X 3.0 Payment

  - Standards Compliance

The Parlay X 3.0 interface complies to ETSI ES 202 504-6 v0.0.4 (2007-06), Open Service Access (OSA); Parlay X Web Services; Part 6: Payment (Parlay X 3).

For links to the specification, see:

`http://docbox.etsi.org/TISPAN/Open/OSA/ParlayX30.html`

Table 7–1   Statement of Compliance, Parlay X 3.0 Payment

Method	Compliant (Yes | No)	Comment
Interface: AmountCharging		
ChargeAmount	Y	
RefundAmount	Y	
ChargeSplitAmount	Y	
Interface: VolumeCharging		
ChargeVolume	N	
GetAmount	N	
RefundVolume	N	
chargeSplitVolume	N	
Interface: ReserveAmountCharging		
ReserveAmount	Y	
ReserveAdditionalAmount	Y	

Table 7–1   (Cont.) Statement of Compliance, Parlay X 3.0 Payment

Method	Compliant (Yes | No)	Comment
ChargeReservation	Y	
ReleaseReservation	Y	
Interface: ReserveVolumeCharging		
GetAmount	N	
ReserveVolume	N	
ReserveAdditionalVolume	N	
ChargeReservation	N	
ReleaseReservation	N	

Diameter for Parlay X 3.0 Payment

The Diameter plug-in for Parlay X 3.0 Payment acts as a charging application towards a Diameter server.

Standards Compliance

The plug-in complies with RFC3588 and RFC4006.

The specifications are at http://www.ietf.org/rfc/rfc3588.txt and http://www.ietf.org/rfc/rfc4006.txt.

Table 7–2   Statement of Compliance, Diameter for Parlay X 3.0 Payment

Diameter AVP	Compliant (Yes/No)	Comment
Subscription-Id	Y	
OCSG-Charge-Description	N/A	Oracle Communications Services Gatekeeper custom.
Currency-Code	Y	
Unit-Value.Exponent	Y	
Unit-Value.Value-Digits	Y	
Service-Context-Id	Y	
OSCG-Reference-Code	N/A	Oracle Communications Services Gatekeeper custom.
Session-Id	Y	
Origin-Realm	Y	
Origin-Host	Y	
Destination-Realm	Y	
Auth-Application-Id	Y	
CC-Request-Type	Y	
Requested-Action	Y	
CC-Request-Number	Y	

Table 7–2   (Cont.) Statement of Compliance, Diameter for Parlay X 3.0 Payment

Diameter AVP	Compliant (Yes/No)	Comment
User-Name	Y	
OCSG-Application-Id	N/A	Oracle Communications Services Gatekeeper custom.
Result-Code	Y	
Service-Identifier	Y	
Called-Party-Address	N/A	Oracle Communications Services Gatekeeper custom; identifies the application or subscriber receiving the service
Calling-Party-Address	N/A	Oracle Communications Services Gatekeeper custom; identifies the application or subscriber invoking the service

8

Parlay X 2.1 Terminal Status

The following chapter describes the standard Oracle Communications Services Gatekeeper Terminal Status communication service and how the interfaces and protocols comply to standards.

- Parlay X 2.1 Terminal Status
- SS7/MAP Terminal Status

Parlay X 2.1 Terminal Status

This section describes the standards compliance for the Terminal Status communication services for Parlay X 2.1 Terminal Status:

The Parlay X 2.1 interface complies to ETSI ES 202 391-8 V1.3.1 (2008-05), Open Service Access (OSA); Parlay X Web Services; Part 8: Terminal Status (Parlay X 2).

See the ETSI OSA Parlay X web site at:
http://docbox.etsi.org/TISPAN/Open/OSA/ParlayX21.html for a links to this specification.

Table 8–1   Statement of Compliance, Parlay X 2.1 Terminal Status

Method	Compliant (Yes | No)	Comment
Interface: TerminalStatus	N/A	N/A
getStatus()	Y	N/A
getStatusForGroup()	Y	N/A
Interface: TerminalStatusNotificationManager	N/A	N/A
startNotification()	Y	N/A
endNotification()	Y	N/A
getStatus()	Y	N/A
Interface: TerminalStatusNotification	N/A	N/A
statusNotification()	Y	N/A
statusError()	Y	N/A
statusEnd()	Y	N/A

SS7/MAP Terminal Status

The Terminal Status/MAP plug-in for Terminal Status acts as an MAP application client for an SS7 network. Triggered notifications are supported, and you can specify whether the Terminal Status/Map plug-in performs the status change probe itself ("push") or directs the network to perform it ("pull").

The plug-in connects to the Tieto Enator SS7 stack.

Standards Compliance

3rd Generation Partnership Project; Technical Specification Group Core Network; Mobile Application Part (MAP) specification; (Release 4), 3GPP TS 29.002 v4.18.0 (2007-09).

See the MAP specification at this 3GPP website: http://www.3gpp.org/ftp/Specs/html-info/29002.htm.

Table 8–2   Statement of Compliance, MAP 3.1 for Parlay X 2.1 Terminal Status

Message	Compliant (Yes | No)	Comment
anyTimeInterrogationReq()	Y	N/A
anyTimeInterrogationRes()	Y	N/A
anyTimeInterrogation()	Y	N/A
anyTimeModificationReq()	Y	N/A
anyTimeModificationRes()	Y	N/A
anyTimeModification()	Y	N/A
NoteMMEvent	Y	N/A

9

Parlay X 2.1 Terminal Location

The following chapter describes the standard Oracle Communications Services Gatekeeper communication services and how the interfaces and protocols complies to standards.

- Parlay X 2.1 Terminal Location
- MLP 3.0/3.2 for Parlay X 2.1 Terminal Location

Parlay X 2.1 Terminal Location

This section describes the standards compliance for the communication services for Parlay X 2.1 Terminal Location:

The Parlay X 2.1 interface complies to ETSI ES 202 391-9 V1.2.1 (2006-12), Open Service Access (OSA); Parlay X Web Services; Part 9: Terminal Location (Parlay X 2).

See

`http://docbox.etsi.org/TISPAN/Open/OSA/ParlayX21.html`

for links to the specification.

Table 9–1   Statement of Compliance, Parlay X 2.1 Terminal Location

Method	Compliant (Yes | No)	Comment
Interface: TerminalLocation		
GetLocation	Y	
GetTerminalDistance	Y	
GetLocationForGroup	Y	
Interface: TerminalLocationNotificationManager		
StartGeographicalNotification	Y	
StartPeriodicNotification	Y	
EndNotification	Y	
Interface: TerminalLocationNotification		
LocationNotification	Y	
LocationError	Y	
LocationEnd	Y	

MLP 3.0/3.2 for Parlay X 2.1 Terminal Location

The MPL 3.0/3.2 plug-in for Parlay X 2.1 Terminal Location acts as an LCS/MLS Client towards a location server using the MLP interface. It is possible to use either version 3.0 or version 3.2 of MLP. When using MLP 3.2, triggered notifications are supported. It is configurable on plug-in instance level wether tit shall operate in Standard Location or Emergency Location Immediate mode.

The plug-in connects to the Location Server using HTTP. The plug-in always acts as one single LCS/MLS Client towards the location server.

Standards Compliance

Location Inter-operability Forum (LIF) Mobile Location Protocol, LIF TS 101 Specification Version 3.0.0 and Mobile Location Protocol 3.2 Candidate Version 3.2 Open Mobile Alliance, OMA-TS-MLP-V3_2-20051124-C(MLP 3.2.0).

A link to the MLP 3.0 specification is found on
`http://www.openmobilealliance.org/tech/affiliates/lif/lifindex.html`

A link to the MLP 3.2 specification is found on
`http://www.openmobilealliance.org`

Table 9–2 Statement of Compliance, MLP 3.0/3.2 for Parlay X 2.1 Terminal Location

Message	Compliant (Yes | No)	Comment
Standard Location Immediate Service		
Standard Location Immediate Request	Y	
Standard Location Immediate Answer	Y	
Emergency Location Immediate Service		
Emergency Location Immediate Request	Y	
Emergency Location Immediate Answer	Y	
Triggered Location Reporting Service		
Triggered Location Reporting Request	Y	Only when the plug-in operates in MLP 3.2 mode.
Triggered Location Reporting Answer	Y	Only when the plug-in operates in MLP 3.2 mode.
Triggered Location Report	Y	Only when the plug-in operates in MLP 3.2 mode.
Triggered Location Reporting Stop Request	Y	Only when the plug-in operates in MLP 3.2 mode.
Triggered Location Reporting Stop Answer	Y	Only when the plug-in operates in MLP 3.2 mode.

The attribute subclient is populated with the ID of the application instance group that the request originated from.

10

Parlay X 2.1 Audio Call

The following chapter describes the standard Oracle Communications Services Gatekeeper Audio Call communication service and how the interfaces and protocols comply to standards.

Parlay X 2.1 Audio Call Statement of Compliance

This section describes the standards compliance for the Audio Call communication services for Parlay X 2.1 Audio Call:

The Parlay X 2.1 interface complies with ETSI ES 202 391-11 V1.2.1 (2006-12) Open Service Access (OSA); Parlay X Web Services; Part 11: Audio Call (Parlay X 2).

See the ETSI OSA Parlay X web site at:
http://docbox.etsi.org/TISPAN/Open/OSA/ParlayX21.html for a links to this specification.

Table 10–1   Statement of Compliance, Parlay X 2.1 Audio Call

Method	Compliant	Comment
Interface: Audio Call	N/A	N/A
PlayAudioMessage()	Yes	N/A
GetMessageStatus()	Yes	N/A
EndMessage()	Yes	N/A

SIP for Parlay X 2.1 Audio Call

The SIP plug-in for Parlay X 2.1 Audio Call is an integration plug-in that utilizes the Oracle WebLogic SIP Server to connect to a SIP/IMS network. The plug-in connects to a SIP servlet executing in WebLogic SIP Server. The SIP Servlet uses the SIP API provided by the WebLogic SIP server, which in its turn converts the API calls to SIP messages.

Standards Compliance

The SIP servlet uses the WebLogic SIP server, which conforms to RFC 3261.

The RFC is found at

http://www.ietf.org/rfc/rfc3261.txt

Table 10–2   Statement of Compliance, SIP for Parlay X 2.1 Audio Call

Message/Response	Compliant	Comment
REGISTER	-	Not used in the context.
INVITE	Yes	
ACK	Yes	
CANCEL	Yes	
BYE	Yes	
OPTIONS	-	Not used in the context.
INFO	-	Not used in the context.
100 Trying	Yes	
180 Ringing	Yes	
181 Call Is Being Forwarded	-	Not used in the context.
182 Queued	-	Not used in the context.
183 Session Progress	-	Not used in the context.
200 OK	Yes	
300 Multiple Choices	Yes	Not used in the context.
301 Moved Permanently	Yes	Not used in the context.
302 Moved Temporarily	Yes	Not used in the context.
305 Use Proxy	Yes	Not used in the context.
380 Alternative Service	Yes	Not used in the context.
400 Bad Request	Yes	Treated as an error.
401 Unauthorized	Yes	Treated as an error.
402 Payment Required	Yes	Treated as an error.
403 Forbidden	Yes	Treated as an error.
404 Not Found	Yes	Treated as an error.
405 Method Not Allowed	Yes	Treated as an error.
406 Not Acceptable	Yes	Treated as an error.
407 Proxy Authentication Required	Yes	Treated as an error.
408 Request Timeout	Yes	Treated as an error.
410 Gone	Yes	Treated as an error.
413 Request Entity Too Large	Yes	Treated as an error.
414 Request-URI Too Long	Yes	Treated as an error.
415 Unsupported Media Type	Yes	Treated as an error.
416 Unsupported URI Scheme	Yes	Treated as an error.
420 Bad Extension	Yes	Treated as an error.
421 Extension Required	Yes	Treated as an error.
423 Interval Too Brief	Yes	Treated as an error.
480 Temporarily Unavailable	Yes	Treated as an error.

Table 10–2   (Cont.) Statement of Compliance, SIP for Parlay X 2.1 Audio Call

Message/Response	Compliant	Comment
481 Call/Transaction Does Not Exist	Yes	Treated as an error.
482 Loop Detected	Yes	Treated as an error.
483 Too Many Hops	Yes	Treated as an error.
484 Address Incomplete	Yes	Treated as an error.
485 Ambiguous	Yes	Treated as an error.
486 Busy Here	Yes	Treated as an error.
487 Request Terminated	Yes	Treated as an error.
488 Not Acceptable Here	Yes	Treated as an error.
491 Request Pending	Yes	Treated as an error.
493 Undecipherable	Yes	Treated as an error.
500 Server Internal Error	Yes	Treated as an error.
501 Not Implemented	Yes	Treated as an error.
502 Bad Gateway	Yes	Treated as an error.
503 Service Unavailable	Yes	Treated as an error.
504 Server Time-out	Yes	Treated as an error.
505 Version Not Supported	Yes	Treated as an error.
513 Message Too Large	Yes	Treated as an error.
600 Busy Everywhere	Yes	Treated as an error.
603 Decline	Yes	Treated as an error.
604 Does Not Exist Anywhere	Yes	Treated as an error.
606 Not Acceptable	Yes	Treated as an error.

11

Parlay X 3.0 Audio Call

The following chapter describes the standard Oracle Communications Services Gatekeeper Parlay X 3.0 communication service and how its interfaces and protocols comply to standards.

- Parlay X 3.0 Audio Call
- Parlay 3.3 User Interaction and MultiParty Call Control for Parlay X 3.0 Audio Call

Parlay X 3.0 Audio Call

This section describes the standards compliance for the communication services for Parlay X 3.0 Audio Call:

The Parlay X 3.0 interface complies with Draft ETSI ES 202 504-11 v.0.0.3 (2007-06), Open Service Access (OSA); Parlay X Web Services; Part 11: Audio Call (Parlay X 3).

See

http://docbox.etsi.org/TISPAN/Open/OSA/ParlayX30.html

for links to the specification.

Table 11–1 Statement of Compliance, Parlay X 3.0 Audio Call

Method	Compliant (Yes | No)	Comment
Interface: PlayMedia		
PlayTextMessage	N	
PlayAudioMessage	Y	
PlayVoiceXmlMessage	N	
PlayVideoMessage	N	
GetMessageStatus	Y	
EndMessage	Y	
Interface: CaptureMedia		
StartPlayAndCollectInteraction	Y	
StartPlayAndRecordInteraction	N	
StopMediaInteraction	Y	
Interface: MultiMedia		
AddMediaForParticipants	N	

Table 11–1   (Cont.) Statement of Compliance, Parlay X 3.0 Audio Call

Method	Compliant (Yes | No)	Comment
DeleteMediaForParticipants	N	
GetMediaForParticipant	N	
GetMediaForCall	N	

Parlay 3.3 User Interaction and MultiParty Call Control for Parlay X 3.0 Audio Call

The Parlay 3.3 User Interaction and MultiParty Call Control plug-in for Parlay X 3.0 Audio Call acts as a OSA/Parlay application towards an OSA/Parlay Gateway. It uses the OSA/Parlay Framework to get hold of the Call User Interaction and MultiParty Call Control SCSs. This is done via the OSA Access Service, see Chapter 19, "Parlay 3.3 Framework for plug-ins of Parlay type."

The call session is not created by this plug-in but uses call sessions established by the following plug-ins:

- Parlay 3.3 MultiParty Call Control plug-in for Parlay X 3.0 Third Party Call

- Parlay 3.3 MultiParty Call Control for Parlay X 3.0 Call Notification

Standards Compliance

The plug-in complies to ETSI ES 201 915-4 V1.4.1 (2003-07), Open Service Access (OSA); Application Programming Interface (API); Part 4: Call Control SCF (Parlay 3).

It also complies to ETSI ES 201 915-5 V1.4.1 (2003-07), Open Service Access (OSA); Application Programming Interface (API); Part 5: User Interaction SCF (Parlay 3).

Table 11–2   Statement of Compliance, Parlay 3.3 User Interaction and MultiParty Call Control for Parlay X 3.0 Audio Call

Method	Compliant (Yes | No)	Comment
Interface: IpMultiPartyCallControlManager		
createCall	N	Not used in the context
createNotification	N	Not used in the context
destroyNotification	N	Not used in the context
changeNotification	N	Not used in the context
getNotification	N	Not used in the context
setCallLoadControl	N	Not used in the context
Interface: IpMultiPartyCall		
getCallLegs	N	Not used in the context
createCallLeg	N	Not used in the context
createAndRouteCallLegReq	N	Not used in the context
release	N	Not used in the context

Table 11–2   (Cont.) Statement of Compliance, Parlay 3.3 User Interaction and MultiParty Call Control for Parlay X 3.0 Audio Call

Method	Compliant (Yes | No)	Comment
deassignCall	N	Not used in the context
getInfoReq	N	Not used in the context
setChargePlan	N	Not used in the context
setAdviceOfCharge	N	Not used in the context
superviseReq	N	Not used in the context
Interface: IpCallLeg		
routeReq	N	Not used in the context
eventReportReq	N	Not used in the context
release	N	Not used in the context
getInfoReq	N	Not used in the context
getCall	N	Not used in the context
attachMediaReq	N	Not used in the context
detachMediaReq	N	Not used in the context
getCurrentDestinationAddress	N	Not used in the context
getLastRedirectedAddress	N	Not used in the context
continueProcessing	N	Not used in the contexttbc
setChargePlan	N	Not used in the context
setAdviceOfCharge	N	Not used in the context
superviseReq	N	Not used in the context
deassign	N	Not used in the context
Interface: IpAppMultiPartyCallControlManager		
reportNotification	N	Not used in the context
callAborted	N	Not used in the context
managerInterrupted	N	Not used in the context
managerResumed	N	Not used in the context
callOverloadEncountered	N	Not used in the context
callOverloadCeased	N	Not used in the context
Interface: IpAppMultiPartyCall		
getInfoRes	N	Not used in the context
getInfoErr	N	Not used in the context
superviseRes	N	Not used in the context
superviseErr	N	Not used in the context
callEnded	N	Not used in the context
createAndRouteCallLegErr	N	Not used in the context
Interface: IpAppCallLeg		

Table 11–2   (Cont.) Statement of Compliance, Parlay 3.3 User Interaction and MultiParty Call Control for Parlay X 3.0 Audio Call

Method	Compliant (Yes | No)	Comment
eventReportRes	N	Not used in the context
eventReportErr	N	Not used in the context
attachMediaRes	Y	
attachMediaErr	Y	
detachMediaRes	Y	
detachMediaErr	Y	
getInfoRes	N	Not used in the context
getInfoErr	N	Not used in the context
routeErr	N	Not used in the context
superviseRes	N	Not used in the context
superviseErr	N	Not used in the context
callLegEnded	N	Not used in the context

Table 11–3   Statement of Compliance, Parlay 3.3 User Interaction for Parlay X 2.1 Audio Call

Method	Compliant (Yes | No)	Comment
Interface: IpUIManager		
createUI	N	Not used in the context
createUICall	Y	
createNotification	N	Not used in the context
destroyNotification	N	Not used in the context
changeNotification	N	Not used in the context
getNotification	N	Not used in the context
Interface: IpAppUIManager		
userInteractionAborted	N	Not used in the context
reportNotification	N	Not used in the context
userInteractionNotificationInterrupted	N	Not used in the context
userInteractionNotificationContinued	N	Not used in the context
reportEventNotification	N	Not used in the context
Interface: IpUI		
sendInfoReq	Y	
sendInfoAndCollectReq	Y	
release	Y	
Interface: IpAppUI		

Table 11–3   (Cont.) Statement of Compliance, Parlay 3.3 User Interaction for Parlay X 2.1 Audio Call

Method	Compliant (Yes | No)	Comment
sendInfoRes	Y	
sendInfoErr	Y	
sendInfoAndCollectRes	Y	
sendInfoAndCollectErr	Y	
userInteractionFaultDetected	N	Not used in the context
Interface: IpUICall		
recordMessageReq	N	Not used in the context
deleteMessageReq	N	Not used in the context
abortActionReq	N	Not used in the context
Interface: IpAppUICall		
recordMessageRes	N	Not used in the context
recordMessageErr	N	Not used in the context
deleteMessageRes	N	Not used in the context
deleteMessageErr	N	Not used in the context
abortActionRes	Y	
abortActionErr	Y	

12

Parlay X 2.1 Presence

The following chapter describes the standard Oracle Communications Services Gatekeeper communication services and how the interfaces and protocols complies to standards.

- Parlay X 2.1 Presence
- SIP for Parlay X 2.1 Presence

Parlay X 2.1 Presence

This section describes the standards compliance for the communication services for Parlay X 2.1 Presence:

The Parlay X 2.1 interface complies with ETSI ES 202 391-14 V1.2.1 (2006-12), Open Service Access (OSA); Parlay X Web Services; Part 14: Presence (Parlay X 2).

See

http://docbox.etsi.org/TISPAN/Open/OSA/ParlayX21.html

for links to the specification.

Table 12–1   Statement of Compliance, Parlay X 2.1 Presence

Method	Compliant (Yes | No)	Comment
Interface: PresenceConsumer		
subscribePresence	Y	
getUserPresence	Y	
startPresenceNotification	Y	
endPresenceNotification	Y	
Interface: PresenceNotification		
statusChanged	Y	
statusEnd	Y	
notifySubscription	Y	
subscriptionEnded	Y	
Interface: PresenceSupplier		
publish	N	
getOpenSubscriptions	N	

Table 12–1   (Cont.) Statement of Compliance, Parlay X 2.1 Presence

Method	Compliant (Yes | No)	Comment
updateSubscriptionAuthorization	N	
getMyWatchers	N	
getSubscribedAttributes	N	
blockSubscription	N	

SIP for Parlay X 2.1 Presence

The SIP plug-in for Parlay X 2.1 Presence is an integration plug-in that utilizes Oracle Converged Application Server (OCCAS) to connect to a SIP/IMS network. The plug-in connects to a SIP servlet executing in OCCAS. The controller utilizes the SIP API provided by OCCAS to create and send SUBSCRIBE requests. The SIP server converts the API calls to SIP and actually sends the requests out to the network. The SIP servlet on the other hand acts as a listener for responses to the SUBSCRIB requests that were sent from the controller. In this case the SIP server receives the SIP messages an converts them to API calls invoked on the SIP servlet.

Standards Compliance

The SIP servlet uses the WebLogic SIP server, which conforms to RFC 3261.

The specification is found on `http://www.ietf.org/rfc/rfc3261.txt`

Additionally the following IETF specification are used by WebLogic SIP Server

Session Initiation Protocol (IP) - specific Event Notification

The specification is found on `http://www.apps.ietf.org/rfc/rfc3265.html`

A Presence Event package for the Session Initiation Protocol (SIP)

The specification is found on `http://www.apps.ietf.org/rfc/rfc3856.html`

PRID: Rich Presence Extensions to Presence Information Data Format (PIDF)

The specification is found on `http://www.apps.ietf.org/rfc/rfc4480.html`

Table 12–2   Statement of Compliance, SIP for Parlay X 2.1 Presence

Message/Response	Compliant (Yes/No)	Comment
ACK	-	Not used in the context.
REGISTER	-	Not used in the context.
INVITE	-	
CANCEL	-	
BYE	-	
OPTIONS	-	Not used in the context.
SUBSCRIBE	Y	
NOTIFY	Y	
100 Trying	-	Not used in the context.

Table 12–2   (Cont.) Statement of Compliance, SIP for Parlay X 2.1 Presence

Message/Response	Compliant (Yes/No)	Comment
180 Ringing	-	Not used in the context.
181 Call Is Being Forwarded	-	Not used in the context.
182 Queued	-	Not used in the context.
183 Session Progress	-	Not used in the context.
200 OK	Y	
202 Accepted	Y	
300 Multiple Choices	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
301 Moved Permanently	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
302 Moved Temporarily	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
305 Use Proxy	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
380 Alternative Service	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
400 Bad Request	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
401 Unauthorized	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
402 Payment Required	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
403 Forbidden	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
404 Not Found	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
405 Method Not Allowed	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
406 Not Acceptable	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
407 Proxy Authentication Required	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
408 Request Timeout	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
410 Gone	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
413 Request Entity Too Large	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
414 Request-URI Too Long	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
415 Unsupported Media Type	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
416 Unsupported URI Scheme	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.

Table 12–2   (Cont.) Statement of Compliance, SIP for Parlay X 2.1 Presence

Message/Response	Compliant (Yes/No)	Comment
420 Bad Extension	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
421 Extension Required	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
423 Interval Too Brief	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
480 Temporarily Unavailable	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
481 Call/Transaction Does Not Exist	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
482 Loop Detected	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
483 Too Many Hops	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
484 Address Incomplete	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
485 Ambiguous	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
486 Busy Here	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
487 Request Terminated	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
488 Not Acceptable Here	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
489 Bad Event	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
491 Request Pending	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
493 Undecipherable	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
500 Server Internal Error	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
501 Not Implemented	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
502 Bad Gateway	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
503 Service Unavailable	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
504 Server Time-out	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
505 Version Not Supported	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
513 Message Too Large	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
600 Busy Everywhere	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.

Table 12–2   (Cont.) Statement of Compliance, SIP for Parlay X 2.1 Presence

Message/Response	Compliant (Yes/No)	Comment
603 Decline	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
604 Does Not Exist Anywhere	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
606 Not Acceptable	Y	From a Parlay X 2.1 Presence standpoint the subscription will not be established.

13

Parlay X 3.0 Device Capabilities and Configuration

This chapter describes the standard Oracle Communications Services Gatekeeper Parlay X 3.0 communication service and how its interfaces and protocols comply to standards.

- Parlay X 3.0 Device Capabilities and Configuration
- LDAP for Device Capabilities and Configuration

Parlay X 3.0 Device Capabilities and Configuration

This section describes the standards compliance for the communication services for Parlay X 3.0 Device Capabilities and Configuration (Device Capabilities):

The Parlay X 3.0 interface complies to Draft ETSI ES 202 504-18 v.0.0.1 (2007-06), Open Service Access (OSA); Parlay X Web Services; Part 18: Device Capabilities and Configuration (Parlay X 3).

See the Parlay X 3.0 web site at:

http://docbox.etsi.org/TISPAN/Open/OSA/ParlayX30.html

for links to the specification.

Table 13–1   Statement of Compliance, Parlay X 3.0 Device Capabilities and Configuration

Method	Compliant	Comments
Interface: DeviceCapabilities		-
getCapabilities	Yes	-
getDeviceId	Yes	-
Interface: DeviceCapabilitiesNotification Manager		
startNotification	No	-
endNotification	No	-
Interface: DeviceCapabilitiesNotification		
deviceNotification	No	-
deviceError	No	-
deviceEnd	No	-

Table 13–1   (Cont.) Statement of Compliance, Parlay X 3.0 Device Capabilities and

Method	Compliant	Comments
Interface: DeviceConfiguration		
pushConfiguration	No	-
getConfigurationList	No	-
getConfigurationHistory	No	-

LDAP for Device Capabilities and Configuration

The LDAP plug-in for Device Capabilities acts as an LDAP client towards a directory service. The plug-in connects to the directory service using LDAP.

The plug-in instance has a pool of connections.

Standards Compliance

The plug-in complies to LDAP v3, RFC 4510.

The specification is found on the LDAP web site at:

http://tools.ietf.org/html/rfc4510

Table 13–2   Statement of Compliance, LDAP for Device Capabilities and Configuration

Operation	Compliant	Comment
Bind	Yes	
Unbind	Yes	
Search	Yes	
Modify	No	Not used in the context.
Add	No	Not used in the context.
Delete	No	Not used in the context.
Modify	No	Not used in the context.
Compare	No	Not used in the context.
Abandon	No	Not used in the context.
Extended	No	Not used in the context.
StartTLS	No	Not used in the context.

14

Extended Web Services WAP Push

The following chapter describes the standard Oracle Communications Services Gatekeeper communication services and how the interfaces and protocols complies to standards.

- Extended Web Services WAP Push
- WAP Push for Extended Web Services WAP Push

Extended Web Services WAP Push

This section describes the standards compliance for the communication services for Extended Web Services WAP Push:

The Extended Web Services interface is an interface defined by Oracle, but it is based on the patterns present in the Parlay X 2.1 interfaces.

The payload of a WAP Push message shall adhere to:

- WAP Service Indication Specification, as specified in Service Indication Version 31-July-2001 Wireless Application Protocol WAP-167-ServiceInd-20010731-a.
- WAP Service Loading Specification, as specified in Service Loading Version 31-Jul-2001 Wireless Application Protocol WAP-168-ServiceLoad-20010731-a.
- WAP Cache Operation Specification, as specified in Cache Operation Version 31-Jul-2001 Wireless Application Protocol WAP-175-CacheOp-20010731-a.

See http://www.openmobilealliance.org/tech/affiliates/wap/wapindex.html for links to the specifications.

WAP Push for Extended Web Services WAP Push

The WAP Push plug-in for Extended Web Services WAP Push acts as an Push Initiator towards a Push Proxy Gateway using the PAP interface. The plug-in connects to the Push proxy Gateway using HTTP.

The plug-in always acts as one single Push Initiator towards the Location Server.

Standards Compliance

The plug-in complies to Push Access Protocol, WAP Forum™, WAP-247-PAP-20010429-a.

The specification is found on http://www.openmobilealliance.org

Table 14–1   Statement of Compliance, WAP Push for Extended Web Services WAP Push

Operation	Compliant (Yes | No)	Comment
push-message	Y	
push-response	Y	
cancel-message	N	
cancel-response	N	
resultnotification-message	Y	
resultnotification-response	Y	
statusquery-message	N	
statusquery-response	N	
ccq-message	N	
ccq-response	N	
badmessage-response	Y	

15

Extended Web Services Subscriber Profile

The following chapter describes the standard Oracle Communications Services Gatekeeper communication services and how the interfaces and protocols complies to standards.

- Extended Web Services Subscriber Profile
- LDAP for Extended Web Services Subscriber Profile

Extended Web Services Subscriber Profile

This section describes the standards compliance for the communication services for Extended Web Services Subscriber Profile:

The Extended Web Services interface is an interface defined by Oracle, but it is based on a suggestion for a Parlay X standard for Subscriber Profile.

LDAP for Extended Web Services Subscriber Profile

The LDAP plug-in for Extended Web Services Subscriber Profile acts as an LDAP client towards a directory service. The plug-in connects to the directory service using LDAP.

The plug-in instance has a pool of connections.

Standards Compliance

The plug-in complies to LDAP v3, RFC 4510.

The specification is found on http://tools.ietf.org/html/rfc4510.

Table 15–1 Statement of Compliance, LDAP for Extended Web Services Subscriber Profile

Operation	Compliant (Yes | No)	Comment
Bind	Y	
Unbind	Y	
Search	Y	
Modify	N	Not used in the context.
Add	N	Not used in the context.
Delete	N	Not used in the context.

Table 15–1   (Cont.) Statement of Compliance, LDAP for Extended Web Services Subscriber Profile

Operation	Compliant (Yes | No)	Comment
Modify	N	Not used in the context.
Compare	N	Not used in the context.
Abandon	N	Not used in the context.
Extended	N	Not used in the context.
StartTLS	N	Not used in the context.

16

Native MM7

The following chapter describes the standard Oracle Communications Services Gatekeeper communication services and how the interfaces and protocols complies to standards.

- Native MM7
- Native MM7 Service Facade Standards Compliance
- Native MM7 Service Enabler Standards Compliance

Native MM7

This section describes the standards compliance for the communication service for Native MM7.

Native MM7 Service Facade Standards Compliance

The MM7 Service Facade acts as an MMS Relay/Server. It is used by MMS VAS applications.

The Service Facade complies to 3rd Generation Partnership Project; Technical Specification Group Terminals; Multimedia Messaging Service (MMS); Functional description; Stage 2 (Release 5), 3GPP TS 23.140 V5.3.0. Messages are compliant with XSD schemes defined with name space http://www.3gpp.org/ftp/Specs/archive/23_series/23.140/schema/REL-5-MM7-1-2.

A link to the specification is found on http://www.3gpp.org/ftp/Specs/html-info/23140.htm

It supports authentication using HTTP Basic Authentication according to HTTP Authentication: Basic and Digest Access Authentication, IETF; RFC 2617.

Table 16–1   Statement of Compliance Native MM7Service Facade

Operation	Compliant (Yes | No)	Comment
MMS VAS application originated operations:		
MM7_submit.REQ	Y	
MM7_cancel.REQ	N	
MM7_delivery_report.RES	Y	
MM7_deliver.RES	Y	
MM7_replace.REQ	N	

Table 16–1 (Cont.) Statement of Compliance Native MM7Service Facade

Operation	Compliant (Yes | No)	Comment
MM7_read_reply.RES	Y	
MM7_VASP_error.RES	N	
MM7 Service Facade originated operations:		
MM7_submit.RES	Y	
MM7_cancel.REQ	N	
MM7_delivery_report.REQ	Y	
MM7_deliver.REQ	Y	
MM7_replace.RES	N	
MM7_read_reply.REQ	Y	
MM7_RS_error.RES	N	

Native MM7 Service Enabler Standards Compliance

The Native MM7 Service Enabler acts as an MMS VAS application.

The Service Enabler complies to 3rd Generation Partnership Project; Technical Specification Group Terminals; Multimedia Messaging Service (MMS); Functional description; Stage 2 (Release 5), 3GPP TS 23.140 V5.3.0. Messages are compliant with XSD schemes defined with name space:
http://www.3gpp.org/ftp/Specs/archive/23_series/23.140/schema/REL-5-MM7-1-0

It supports the 7-1-0 XSD, adapted to support delivery notifications and 7-1-2 XSD.

A link to the specification is found on
`http://www.3gpp.org/ftp/Specs/html-info/23140.htm`

It supports authentication using HTTP Basic Authentication according to HTTP Authentication: Basic and Digest Access Authentication, IETF; RFC 2617.

Table 16–2 Statement of Compliance Native MM7Service Enabler

Operation	Compliant (Yes | No)	Comment
MM7 Service Enabler originated operations:		
MM7_submit.REQ	Y	
MM7_cancel.REQ	N	
MM7_delivery_report.RES	Y	
MM7_deliver.RES	Y	
MM7_replace.REQ	N	
MM7_read_reply.RES	Y	
MM7_VASP_error.RES	Y	
MMSC originated operations:		
MM7_submit.RES	Y	
MM7_cancel.RES	Y	

Table 16–2   (Cont.) Statement of Compliance Native MM7Service Enabler

Operation	Compliant (Yes | No)	Comment
MM7_delivery_report.REQ	Y	
MM7_deliver.REQ	Y	
MM7_replace.RES	N	
MM7_read_reply.REQ	Y	
MM7_RS_error.RES	Y	

17

Native SMPP

The following chapter describes the standard Oracle Communications Services Gatekeeper communication services and how the interfaces and protocols complies to standards.

Native SMPP

This section describes the standards compliance for the communication service for Native SMPP.

Native SMPP Service Facade Standards Compliance

The Native SMPP Service Facade acts as an SMPP SCMC. It is used by SMPP applications.

The Service Facade Complies to Short Message Peer to Peer, Protocol Specification v3.4, Document Version:- 12-Oct-1999 Issue 1.2.

The specification is found on http://www.smsforum.net/.

Table 17–1   Statement of Compliance, SMPP Service Facade

Operation	Compliant (Yes | No)	Comment
bind_transmitter	Y	
bind_transmitter_resp	Y	
bind_receiver	Y	
bind_receiver_resp	Y	
bind_transceiver	Y	
bind_transceiver_resp	Y	
outbind	N	
unbind	Y	
unbind_resp	Y	
generic_nack	Y	

Table 17–1   (Cont.) Statement of Compliance, SMPP Service Facade

Operation	Compliant (Yes | No)	Comment
submit_sm	Y	
submit_sm_resp	Y	
submit_sm_multi	Y	
submit_sm_multi_resp	Y	
deliver_sm	Y	
deliver_sm_resp	Y	
data_sm	N	
data_sm_resp	N	
query_sm	Y	
query_sm_resp	Y	
cancel_sm	Y	
cancel_sm_resp	Y	
replace_sm	Y	
replace_sm_resp	Y	
enquire_link	Y	
enquire_link_resp	Y	
alert_notification	N	

Native SMPP Service Enabler Standards Compliance

The Native SMPP Service Enabler acts as an External Short Message Entity (ESME) towards an SMPP SCMC.

The Service Enabler Complies to Short Message Peer to Peer, Protocol Specification v3.4, Document Version:- 12-Oct-1999 Issue 1.2.

The specification is found on http://www.smsforum.net/.

Table 17–2   Statement of Compliance, SMPP Service Enabler

Operation	Compliant (Yes | No)	Comment
bind_transmitter	Y	
bind_transmitter_resp	Y	
bind_receiver	Y	
bind_receiver_resp	Y	
bind_transceiver	Y	
bind_transceiver_resp	Y	
outbind	N	
unbind	Y	
unbind_resp	Y	

Table 17–2   (Cont.) Statement of Compliance, SMPP Service Enabler

Operation	Compliant (Yes | No)	Comment
generic_nack	Y	
submit_sm	Y	
submit_sm_resp	Y	
submit_sm_multi	Y	
submit_sm_multi_resp	Y	
deliver_sm	Y	
deliver_sm_resp	Y	
data_sm	N	
data_sm_resp	N	
query_sm	Y	
query_sm_resp	Y	
cancel_sm	Y	
cancel_sm_resp	Y	
replace_sm	Y	
replace_sm_resp	Y	
enquire_link	Y	
enquire_link_resp	Y	
alert_notification	N	

Native SMPP Version 5.0 Standards Compliance

The native SMPP communication service supports the following features, which are defined in the Short Message Peer-to-Peer Protocol Specification, Version 5.0. Services Gatekeeper supports these features as tunneled parameters.

Table 17–3   Statement of Compliance for Version 5.0 Features

Parameter	Section in Specification	Comments
billing_identification	4.8.4.3	
ussd_service_operation	4.8.4.64	Version 5.0 added support to deliver_sm for bidrectional USSD.
interface_version	4.7.13	The Native SMPP Service accepts 5.0 as well as 3.4 as the interface version number.

18

Native UCP

The following chapter describes the standards compliance for the Native UCP
Communication Service.

Native UCP

The Native UCP communication service is compliant with the following versions of
the Short Message Service Centre EMI-UCP Interface specification:

- UCP 4.0

- UCP 4.6

- UCP 5.0

Table 18–1 describes Native UCP's compliance with the Short Message Service Centre
EMI-UCP specification.

Table 18–1   Statement of Compliance, Native UCP

Operation	Compliant	Comment
51 Submit_short_message	Yes	
52 Deliver_short_message	Yes	
53 Deliver_notification	Yes	
54 Modify_message	No	
55 Inquiry_message	No	
56 Delete_message	No	
57 Response_inquiry_message	No	
58 Response_delete_message	No	
31 SMT Alert	Yes	Supports heartbeats
60 Session managment	Yes	Supports authentication
61 List management	No	

Parlay 3.3 Framework for plug-ins of Parlay type

The following chapter describes the standard Oracle Communications Services Gatekeeper communication services and how the interfaces and protocols complies to standards.

- Parlay 3.3 Framework for Parlay plug-ins

Parlay 3.3 Framework for Parlay plug-ins

Connecting to the telecommunications network via an OSA/Parlay SCS, involves an Authentication, Service Discovery, and Load Management phase towards an OSA/Parlay Framework.

The OSA/Parlay plug-ins does not communicate directly with the OSA/Parlay Framework, instead they use Oracle Communications Services Gatekeeper's Parlay Access service.

- Standards Compliance

Standards Compliance

The OSA Access service complies to ETSI ES 201 915-3 V1.4.1 (2003-07), Open Service Access (OSA); Application Programming Interface (API); Part 3: Framework.

The specification is found at

http://www.etsi.org/deliver/etsi_es/201900_
201999/20191503/01.04.01_50/es_20191503v010401m.pdf

Table 19–1   Statement of Compliance, Parlay 3.3 Framework

Method	Compliant (Yes| No)	Comment
Interface: IpInitial		
initiateAuthentication	Y	Supported authentication methods: - P_AUTHENTICATION
Interface: IpAuthentication		
requestAccess	Y	
Interface: IpAPILevelAuthentication		

Table 19–1   (Cont.) Statement of Compliance, Parlay 3.3 Framework

Method	Compliant (Yes| No)	Comment
selectEncryptionMethod	Y	Supported encryption methods:
		■ RSA 512
		■ RSA 1024
		■ none
authenticate	Y	
abortAuthentication	Y	
authenticationSucceeded	Y	
Interface: IpClientAPILevelAuthentication		
authenticate	Y	
abortAuthentication	Y	
authenticationSucceeded	Y	
Interface: IpAccess		
obtainInterface	Y	
obtainInterfaceWithCallback	Y	
endAccess	Y	
listInterfaces	Y	
releaseInterface	Y	
Interface: IpClientAccess		
terminateAccess	Y	
Interface: IpServiceDiscovery		
listServiceTypes	N	
describeServiceType	N	
discoverService	Y	Configurable list of service properties along with service types
listSubscribedServices	N	
Interface: IpServiceAgreementManagement		
signServiceAgreement	Y	
terminateServiceAgreement	Y	
selectService	Y	
initiateSignServiceAgreement	Y	
Interface: IpAppServiceAgreementManagement		
signServiceAgreement	Y	
terminateServiceAgreement	Y	
Interface: IpFaultManager		
activityTestReq	N	

Table 19–1   (Cont.) Statement of Compliance, Parlay 3.3 Framework

Method	Compliant (Yes| No)	Comment
appActivityTestRes	N	
svcUnavailableInd	N	
genFaultStatsRecordReq	N	
appActivityTestErr	N	
appUnavailableInd	N	
genFaultStatsRecordRes	N	
genFaultStatsRecordErr	N	
Interface: IpAppFaultManager		
activityTestRes	N	
appActivityTestReq	N	
fwFaultReportInd	N	
fwFaultRecoveryInd	N	
svcUnavailableInd	N	
genFaultStatsRecordRes	N	
fwUnavailableInd	N	
activityTestErr	N	
genFaultStatsRecordErr	N	
appUnavailableInd	N	
genFaultStatsRecordReq	N	
Interface: IpHeartBeatMgmt		
enableHeartBeat	N	
disableHeartBeat	N	
changeInterval	N	
Interface: IpAppHeartBeatMgmt		
enableAppHeartBeat	N	
disableAppHeartBeat	N	
changeInterval	N	
Interface: IpHeartBeat		
pulse	N	
Interface: IpAppHeartBeat		
pulse	N	
Interface: IpLoadManager		
reportLoad	N	
queryLoadReq	N	
queryAppLoadRes	N	
queryAppLoadErr	N	

Table 19–1   (Cont.) Statement of Compliance, Parlay 3.3 Framework

Method	Compliant (Yes| No)	Comment
createLoadLevelNotification	Y	
destroyLoadLevelNotification	N	
resumeNotification	N	
suspendNotification	N	
Interface: IpAppLoadManager		
queryAppLoadReq	N	
queryLoadRes	Y	
queryLoadErr	N	
loadLevelNotification	Y	
resumeNotification	N	
suspendNotification	N	
createLoadLevelNotification	N	
destroyLoadLevelNotification	N	