Oracle® Communications Services Gatekeeper

Statement of Compliance

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Preface

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

Audience

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

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

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Related Documents

For more information, see the following documents in this documentation set:

- *Oracle Communications Services Gatekeeper Application Developer's Guide*

- *Oracle Communications Services Gatekeeper Communication Service Reference Guide*

- *Oracle Communications Services Gatekeeper Concepts*

- *Oracle Communications Services Gatekeeper OAuth Guide*

1

Services Gatekeeper Compliance Reference Table

This chapter serves as a quick-reference to the specifications that the various Oracle Communications Services Gatekeeper components support.

Communication Service Specification Compliance

Table 1–1 lists the Services Gatekeeper audio call communication services, and links to the specifications they support and the chapters that have compliance details.

Table 1–1   Audio Call Specification Compliance Table

Service Type	Specification	Compliant?	Network Interface	Specification	Compliant?
Audio Call API: Parlay X 2.1 Audio Call/SIP API Interface: SOAP	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), available from the 3GPP website: `ftp://ftp.3gpp.org/Specs/archive/29_series/29.199-11/29199-11-650.zip`	Yes. See Parlay X 2.1 Audio Call for details.	SIP	RFC 3261, available from the IETF website: `http://www.ietf.org/rfc/rfc3261.txt`	Yes. See "Services Gatekeeper Compliance Reference Table" for details.
Audio Call API: RESTful Audio Call / SIP API Interface: REST	NA	NA	SIP	RFC 3261 available from the IETF website: `http://www.ietf.org/rfc/rfc3261.txt`	Yes. See "Parlay X 2.1 Audio Call Compliance" for details.

Table 1–2 lists the Services Gatekeeper call notification communication services, and links to the specifications they support and the chapters that have compliance details.

Table 1–2   Call Notification Communication Service Specifications

Service Type	Specification	Compliant?	Network Interface	Specification	Compliant?
Call Notification API: Parlay X 2.1 Call Notification/SIP API Interface: SOAP	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), available from the 3GPP website: `ftp://ftp.3gpp.org/Specs/archive/29_series/29.199-04/29199-04-650.zip`	Yes. See "Parlay X 2.1 Call Notification Compliance" for details.	SIP	RFC 3261, available from the IETF website: `http://www.ietf.org/rfc/rfc3261.txt`	Yes. See "Parlay X 2.1 Call Notification Compliance" for details.
Call Notification API: RESTful Call Notification/SIP API Interface: REST	NA	NA	SIP	RFC 3261, available from the IETF website: `http://www.ietf.org/rfc/rfc3261.txt`	Yes. See "Parlay X 2.1 Call Notification Compliance" for details.

Table 1–3 lists the Services Gatekeeper cross cutting services communication services, and links to the specifications they support and the chapters that have compliance details.

Table 1–3   Cross Cutting Services Communication Service Specifications

Service Type	Specification	Compliant?	Network Interface	Specification	Compliant?
Cross Cutting Services API: Parlay X 3.0 Address List Management Interface API Interface: SOAP	Parlay X Web Services Part 13: Address List Management (3GPP TS 29.199-13 version 7.0.2 Release 7, available from the ETSI website: `http://www.etsi.org/deliver/etsi_ts/129100_129199/12919913/07.00.02_60/ts_12919913v070002p.pdf`	Yes	NA - no network interface for this API	NA	See "Parlay X Web Services Address List Management Compliance"

Cross Cutting Services
 	
API: RESTful Anonymous Customer Reference
 	
API Interface: REST
	Anonymous Customer Reference RESTful NetAPI, available from these websites:
	
	API:
	
	`http://technical.openmobilealliance.org/Technical/technical-information/release-program/current-releases/rest-netapi-acr-v1-0`
	
	Specification:
	
	`http://technical.openmobilealliance.org/Technical/release_program/docs/REST_NetAPI_ACR/V1_0-20130625-C/OMA-TS-REST_NetAPI_ACR-V1_0-20130625-C.pdf`
		Yes	NA - no network interface for this API	NA	NA

Table 1–4 lists the Services Gatekeeper device capabilities communication services, and links to the specifications they support and the chapters that have compliance details.

Table 1–4   Device Capabilities Communication Service Specifications

Service Type	Specification	Compliant?	Network Interface	Specification	Compliant?
Device Capabilities API: Parlay X 3.0 Device Capabilities/LDAPv3 API Interface: SOAP	ETSI ES 202 504-18 V1.1.1(2008-05), available from the ETSI website: `http://www.etsi.org/deliver/etsi_es/202500_202599/20250418/01.01.01_60/es_20250418v010101p.pdf`	Partial, see "Parlay X 3.0 Device Capabilities and Configuration Compliance" for details	LDAP	LDAP v3, RFC 4510, available from the IETF website: `http://tools.ietf.org/html/rfc4510`	Partial, see "Parlay X 3.0 Device Capabilities and Configuration Compliance" for details
Device Capabilities API: RESTful Device Capabilities / LDAP API Interface: REST	NA	NA	LDAP	LDAP v3, RFC 4510, available from the IETF website: `http://tools.ietf.org/html/rfc4510`	Partial, see "Parlay X 3.0 Device Capabilities and Configuration Compliance" for details

Table 1–5 lists the Services Gatekeeper JTAPI communication services, and links to the specifications they support and the chapters that have compliance details.

Table 1–5   JTAPI Communication Service Specifications

Service Type	Specification	Compliant?	Network Interface	Specification	Compliant?
JTAPI RESTful Web Service for JTAPI Cisco UCM Driver	JTAPI v 1.2	Partial. See "RESTful Web Service for JTAPI" in *Communication Services Reference Guide* for details.	Cisco UCM Driver. See "RESTful Web Service for JTAPI" in *Communication Services Reference Guide* for details.	JTAPI v 1.2	Partial. See "RESTful Web Service for JTAPI" in *Communication Services Reference Guide* for details.
JTAPI RESTful Web Service for JTAPI Avaya JTAPI Driver	JTAPI v 1.4	Partial. See "RESTful Web Service for JTAPI" in *Communication Services Reference Guide* for details.	Avaya Driver. See "RESTful Web Service for JTAPI" in *Communication Services Reference Guide* for details.	JTAPI v 1.4	Partial. See "RESTful Web Service for JTAPI" in *Communication Services Reference Guide* for details.

Table 1–6 lists the Services Gatekeeper multimedia messaging communication services, and links to the specifications they support and the chapters that have compliance details.

Table 1–6   Multimedia Messaging Communication Service Specifications

Service Type	Specification	Compliant?	Network Interface	Specification	Compliant?
Multimedia Messaging API: Parlay X 2.1 Multimedia Messaging/ API Interface: SOAP	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), available from the IETF website http://www.ietf.org/rfc/rfc3261.txt	Yes. See "Parlay X 2.1 Multimedia Messaging Compliance" for details.	MM7 Schema ver: REL-5-MM7-1-0	3GPP TS 23.140 V5.3.0, available from the IETF website: http://www.qtc.jp/3GPP/Specs/31121-530.pdf	Partial. See "Parlay X 2.1 Multimedia Messaging Compliance" for details.
Multimedia Messaging API: Parlay X 2.1 Multimedia Messaging/MM7 API Interface: SOAP	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), available from the IETF website: http://www.ietf.org/rfc/rfc3261.txt	Yes. See "Parlay X 2.1 Multimedia Messaging Compliance" for details	MM7 Schema ver: REL-5-MM7-1-2	3GPP TS 23.140 V5.5.0, available from the 3GPP website: http://www.3gpp.org/ftp/Specs/archive/23_series/23.140/23140-550.zip	Partial, see "Parlay X 2.1 Multimedia Messaging Compliance" for details.
Multimedia Messaging API: Parlay X 2.1 Multimedia Messaging/MM7 API Interface: SOAP	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), available from the IETF website: http://www.ietf.org/rfc/rfc3261.txt	Yes. See "Parlay X 2.1 Multimedia Messaging Compliance" for details	MM7 Schema ver: REL-5-MM7-1-3	3GPP TS 23.140 V5.6.0, available from the 3GPP website: http://www.3gpp.org/ftp/Specs/archive/23_series/23.140/23140-560.zip	Partial, see "Parlay X 2.1 Multimedia Messaging Compliance" for details
Multimedia Messaging API: Parlay X 2.1 Multimedia Messaging/MM7 API Interface: SOAP	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), available from the IETF website: http://www.ietf.org/rfc/rfc3261.txt	Yes. See "Parlay X 2.1 Multimedia Messaging Compliance" for details	MM7 Schema ver: REL-5-MM7-1-5	3GPP TS 23.140 V5.10.0, available from the IETF website: http://www.3gpp.org/ftp/Specs/archive/23_series/23.140/23140-5a0.zip	Partial, see "Parlay X 2.1 Multimedia Messaging Compliance" for details
Multimedia Messaging API: Parlay X 2.1 Multimedia Messaging/MM7 API Interface: SOAP	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), available from the IETF website: http://www.ietf.org/rfc/rfc3261.txt	Yes. See "Parlay X 2.1 Multimedia Messaging Compliance" for details	MM7Schema ver: REL-6-MM7-1-4	3GPP TS 23.140 V6.8.0, available from the 3GPP website: http://www.3gpp.org/ftp/Specs/archive/23_series/23.140/23140-680.zip	Yes, see "Parlay X 2.1 Multimedia Messaging Compliance" for details

Table 1–7 lists the Services Gatekeeper eMail communication services, and links to the specifications they support and the chapters that have compliance details.

Table 1–7   EMail Communication Service Specifications

Service Type	Specification	Compliant?	Network Interface	Specification	Compliant?
eMail API: Parlay X 2.1 Multimedia Messaging/SMTP, POP3, and IMAP API Interface: SOAP	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), available from the 3GPP website: `ftp://ftp.3gpp.org/Sp ecs/archive/29_ series/29.199-04/2919 9-04-650.zip`	Yes, see "Parlay X 2.1 Multimedia Messaging Compliance" for details	STMP	RFC 2821, available from the IETF website: `http://www.ietf.org/rfc/ rfc2821.txt`	Yes
eMail API: Parlay X 2.1 Multimedia Messaging/SMTP, POP3, and IMAP API Interface: SOAP	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), available from the 3GPP website: `ftp://ftp.3gpp.org/Sp ecs/archive/29_ series/29.199-04/2919 9-04-650.zip`	Yes, see "Parlay X 2.1 Multimedia Messaging Compliance" for details	POP	POP Version3, RFC 1939, available from the IETF website: `https://tools.ietf.org/h tml/rfc1939`l `https://tools.ietf.org/h tml/rfc1939`	Yes

eMail
 	
API: Parlay X 2.1 Multimedia Messaging/SMTP, POP3, and IMAP
 	
API Interface: SOAP
	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), available from the 3GPP website:
	
	`ftp://ftp.3gpp.org/Sp ecs/archive/29_ series/29.199-04/2919 9-04-650.zip`
		Yes, see "Parlay X 2.1 Multimedia Messaging Compliance" for details	IMAP	RFC 1739, available from the IETF website:
				`http://www.rfc-archive.o rg/getrfc.php?rfc=1730`
				
				`http://www.rfc-archive.o rg/getrfc.php?rfc=1730`
				
				and RFC 2177
				
				`https://tools.ietf.org/h tml/rfc2177`
					Yes

eMail API: RESTful eMail API Interface: REST	NA	NA	Same as above i.e. SMTP, POP and IMAP is supported	NA	NA

Table 1–8 lists the Services Gatekeeper location communication services, and links to the specifications they support and the chapters that have compliance details.

Table 1–8   Location Communication Service Specifications

Service Type	Specification	Compliant?	Network Interface	Specification	Compliant?

Location
 	
API: OneAPI 2.0 Terminal Location
 	
API Interface: REST
	GSMA OneAPI TL v2.0, available from these websites:
	
	`http://technical.open mobilealliance.org/Te chnical/release_ program/docs/ParlayRE ST/V2_ 0-20120724-A/OMA-TS-P arlayREST_ TerminalLocation-V1_ 1-20120724-A.pdf`
	
	the API here:
	
	`http://technical.open mobilealliance.org/Te chnical/technical-inf ormation/oma-api-prog ram/oma-api-inventory /api-details?API_ ID=65`
	
	and the schema here:
	
	`http://technical.open mobilealliance.org/Te chnical/release_ program/docs/ParlayRE ST/V2_ 0-20120724-A/OMA-SUP- XSD_rest_ terminallocation-V1_ 1-20120724-A.txt`
		Yes, see "OneAPI Terminal Location Interface Compliance" for details.	MLP	Location Inter-operability Forum (LIF) Mobile Location Protocol, LIF TS 101 Specification Version 3.0.0, available from these websites:
				
				`http://technical.openmob ilealliance.org/tech/aff iliates/LicenseAgreement .asp?DocName=/lif/LIF-TS -101-v3.0.0.zip`
				
				and Mobile Location Protocol 3.2 Candidate Version 3.2 Open Mobile Alliance, OMA-TS-MLP-V3_ 2-20051124-C(MLP 3.2.0), available from this location:
				
				`https://docbox.etsi.org/ STF/Archive/STF321_ TISPAN3_EC_Emergency_ Call_ Location/Public/Library/ OMA%20Documents/OMA%20Mo bile%20Location%20Protoc ol%20V3_2-20051124-c.pdf`
					Yes, see "OneAPI Terminal Location Interface Complian ce" for details.

Table 1–9 lists the Services Gatekeeper payment communication services, and links to the specifications they support and the chapters that have compliance details.

Table 1–9   Payment Communication Service Specifications

Service Type	Specification	Compliant?	Network Interface	Specification	Compliant?

Payment
API: Parlay X 3.0 Payment/Diameter
API Interface: SOAP
API Interface: REST
	ETSI ES 202 504-6 V1.1.1 (2008-05), Open Service Access (OSA);
	Parlay X Web Services;
	Part 6: Payment
	(Parlay X 3), available from the ETSI website:
	`http://www.etsi.org/deliver/etsi_es/202500_202599/20250406/01.01.01_60/es_20250406v010101p.pdf`
		Yes, see "Parlay X 3.0 Payment Compliance" for details	Diameter Ro	Diameter Base Protocol, RFC3588 and Diameter Credit-Control Application, RFC4006, available from the IETF website:
				`http://www.ietf.org/rfc/rfc3588.txt`
				and
				`http://www.ietf.org/rfc/rfc4006.txt`
					Yes, see "Parlay X 3.0 Payment Compliance" for details

Payment
API: RESTful Payment / Diameter
API Interface: REST
	NA	NA	Diameter Ro	Diameter Base Protocol, RFC3588 and Diameter Credit-Control Application, RFC4006, available from the IETF website:
				`http://www.ietf.org/rfc/rfc3588.txt`
				and
				`http://www.ietf.org/rfc/rfc4006.txt`
					Yes

Payment
API: OneAPI 2.0 Payment
API Interface: REST
	GSMA OneAPI V2.0, available from these websites:
	API:
	`http://technical.openmobilealliance.org/Technical/technical-information/oma-api-program/oma-api-inventory/api-details?API_ID=64`
	Specification:
	`http://technical.openmobilealliance.org/Technical/release_program/docs/ParlayREST/V2_0-20120724-A/OMA-TS-ParlayREST_Payment-V1_1-20120724-A.pdf`
	Schema:
	`http://technical.openmobilealliance.org/Technical/release_program/docs/ParlayREST/V2_0-20120724-A/OMA-SUP-XSD_rest_payment-V1_1-20120724-A.txt`
		Yes, see "OneAPI Payment Compliance" for details	Diameter Ro	Diameter Base Protocol, RFC3588 and Diameter Credit-Control Application, RFC4006, available from the IETF website:
				`http://www.ietf.org/rfc/rfc3588.txt`
				and
				`http://www.ietf.org/rfc/rfc4006.txt`
					Yes

Table 1–10 lists the Services Gatekeeper presence communication services, and links to the specifications they support and the chapters that have compliance details.

Table 1–10   Presence Communication Service Specifications

Service Type	Specification	Compliant?	Network Interface	Specification	Compliant?
Presence API: Parlay X 2.1 Presence/SIP API Interface: SOAP	ETSI ES 202 391-14 V1.2.1 (2006-12), Open Service Access (OSA); Parlay X Web Services; Part 14: Presence (Parlay X 2) available from the 3GPP website: `ftp://ftp.3gpp.org/Sp ecs/archive/29_ series/29.199-04/2919 9-04-650.zip`	Partial, see "Parlay X 2.1 Presence Compliance" for details	SIP	RFC 3261, available from the IETF website: `http://www.ietf.org/rfc/ rfc3261.txt`	Yes, see "Parlay X 2.1 Presence Complian ce" for details

Table 1–11 lists the Services Gatekeeper quality of service communication services, and links to the specifications they support and the chapters that have compliance details.

Table 1–11   Quality of Service Communication Service Specifications

Service Type	Specification	Compliant?	Network Interface	Specification	Compliant?
Quality of Service (QoS) API*: Extended Web Service Quality of Service / Diameter API Interface: REST	NA	NA	Diameter Rx	Policy and Charging Control over Rx reference point (3GPP TS 29.214 version 10.6.0 Release 10), available from the ETSI website: `http://www.etsi.org/deli ver/etsi_ts/129200_ 129299/129214/10.06.00_ 60/ts_129214v100600p.pdf`	Yes

Table 1–12 lists the Services Gatekeeper short messaging communication services, and links to the specifications they support and the chapters that have compliance details.

Table 1–12   Short Messaging Communication Service Specifications

Service Type	Specification	Compliant?	Network Interface	Specification	Compliant?
Short Messaging API: Parlay X 2.1 Short Messaging/SMPP API Interface: SOAP	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), available from the 3GPP website: `ftp://ftp.3gpp.org/Specs/archive/29_series/29.199-04/29199-04-650.zip`	Yes, see "Parlay X 2.1 Short Messaging (including EWS Binary SMS) Compliance" for details	SMPP	Short Message Peer to Peer Protocol Specification v3.4 12-Oct-1999 Issue 1.2, available from the Open SMPP website: `http://opensmpp.org/specs/SMPP_v3_4_Issue1_2.pdf`	Partial, see "Parlay X 2.1 Short Messaging (including EWS Binary SMS) Compliance" for details
Short Messaging API: Parlay X 2.1 Short Messaging/SMPP API Interface: SOAP	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), available from the 3GPP website: `ftp://ftp.3gpp.org/Specs/archive/29_series/29.199-04/29199-04-650.zip`	Yes, see "Parlay X 2.1 Short Messaging (including EWS Binary SMS) Compliance" for details	SMPP	Short Message Peer-to-Peer Protocol Specification, Version 5.0 available from the Connection Software website: `http://www.csoft.co.uk/documents/smppv50.pdf`	Partial, see "Parlay X 2.1 Short Messaging (including EWS Binary SMS) Compliance" for details
Short Messaging API: RESTful Short Messaging API Interface: REST	NA	NA	SMPP	Short Message Peer-to-Peer Protocol Specification, Version 5.0, available from the Connection Software website: `http://www.csoft.co.uk/documents/smppv50.pdf`	Partial, see "Parlay X 2.1 Short Messaging (including EWS Binary SMS) Compliance" for details

Short Messaging
API: RESTful Binary Short Messaging
API Interface: REST
	NA	NA	Same as Parlay X 2.1 SMS above. Both SMPP 3.4 and 5.0 are supported (partially)	Short Message Peer-to-Peer Protocol Specification, Versions 3.4 and 5.0, are supported (partially), available from the Open SMPP website:
				`http://opensmpp.org/specs/SMPP_v3_4_Issue1_2.pdf`
				 and the Connection Software website:
				`http://www.csoft.co.uk/documents/smppv50.pdf`
					Partial, see "Parlay X 2.1 Short Messaging (including EWS Binary SMS) Compliance" for details. Both SMPP 3.4 and 5.0 are partially supported.

Table 1–12   (Cont.) Short Messaging Communication Service Specifications

Service Type	Specification	Compliant ?	Network Interface	Specification	Compliant?

Short Messaging
API: RESTful Binary Short Messaging
API Interface: REST
	NA	NA	Same as Parlay X 2.1 SMS. Both SMPP 3.4 and 5.0 are supported (partially)	Short Message Peer-to-Peer Protocol Specification, Versions 3.4 and 5.0, are supported (partially), available from the Open SMPP website:
				`http://opensmpp.org/specs/SMPP_v3_4_Issue1_2.pdf`
				 and the Connection Software website:
				`http://www.csoft.co.uk/documents/smppv50.pdf`
					Partial. See "Parlay X 2.1 Short Messaging (including EWS Binary SMS) Compliance" for details. Both SMPP 3.4 and 5.0 are partially supported.

Short Messaging
API: OneAPI 2.0 Short Messaging
API Interface: REST
	SMS RESTful API available from the GSMS website:
	`http://technical.openmobilealliance.org/Technical/technical-information/oma-api-program/oma-api-inventory/api-details?API_ID=62`
	The specification is available from this Open Mobile Alliance website:
	`http://technical.openmobilealliance.org/Technical/release_program/docs/ParlayREST/V2_0-20120724-A/OMA-TS-ParlayREST_ShortMessaging-V1_1-20120724-A.pdf`
	and the schema is available from this Open Mobile Alliance website:
	`http://technical.openmobilealliance.org/Technical/release_program/docs/ParlayREST/V2_0-20120724-A/OMA-SUP-XSD_rest_sms-V1_1-20120724-A.txt`
		Yes	Same as Parlay X 2.1 SMS. Both SMPP 3.4 and 5.0 are supported (partially)	Short Message Peer-to-Peer Protocol Specification, Versions 3.4 and 5.0, are supported (partially), available from the Open SMPP website:
				`http://opensmpp.org/specs/SMPP_v3_4_Issue1_2.pdf`
				and the Connection Software website:
				`http://www.csoft.co.uk/documents/smppv50.pdf`
					Partially. See "Parlay X 2.1 Short Messaging (including EWS Binary SMS) Compliance". Both SMPP 3.4 and 5.0 are partially supported.)

Table 1–12   (Cont.) Short Messaging Communication Service Specifications

Service Type	Specification	Compliant?	Network Interface	Specification	Compliant?
Short Messaging API: Native SMPP API Interface: SMPP	Short Message Peer to Peer, Protocol Specification v3.4, Document Version:- 12-Oct-1999 Issue 1.2, available from the Open SMPP website: `http://opensmpp.org/specs/SMPP_v3_4_Issue1_2.pdf`	Partial, see "Native SMPP Compliance" for details.	SMPP	Short Message Peer to Peer Protocol Specification v3.4, available from the Open SMPP website `http://opensmpp.org/specs/SMPP_v3_4_Issue1_2.pdf`	Partial, see "Native SMPP Compliance" for details.
Short Messaging API: Native UCP API Interface: UCP	Short Message Service Centre EMI-UCP, versions 4.0, 4.6, 5.0. These EMI-UCP specifications are no longer publicly available.	Partial, see "Native SMPP Compliance" for details	SMPP	Short Message Peer to Peer Protocol Specification v3.4, available from the Open SMPP website: `http://opensmpp.org/specs/SMPP_v3_4_Issue1_2.pdf`	Partial, see "Native SMPP Compliance" for details
Short Messaging API: Extended Web Services Binary SMS/SMPP API Interface: SOAP	NA	NA	SMPP	Short Message Peer-to-Peer Protocol Specification, Version 5.0, available from the Connection Software website: `http://www.csoft.co.uk/documents/smppv50.pdf`	Partial, see "Parlay X 2.1 Short Messaging (including EWS Binary SMS) Compliance" for details

Table 1–13 lists the Services Gatekeeper subscriber profile communication services, and links to the specifications they support and the chapters that have compliance details.

Table 1–13 Subscriber Profile Communication Service Specifications

Service Type	Specification	Compliant?	Network Interface	Specification	Compliant?
Subscriber Profile API: Extended Web Services Subscriber Profile/LDAPv3 API Interface: SOAP	NA	NA	LDAP	LDAP v3, RFC 4510, available from the IETF website: `http://tools.ietf.org/html/rfc4510`	Partial, see "Extended Web Services Subscriber Profile Compliance" for details
Subscriber Profile API: RESTful Subscriber Profile / LDAP API Interface: REST	NA	NA	LDAP	LDAP v3, RFC 4510, available from the IETF website: `http://tools.ietf.org/html/rfc4510`	Partial, see "Extended Web Services Subscriber Profile Compliance" for details

Table 1–14 lists the Services Gatekeeper subscription management communication services, and links to the specifications they support and the chapters that have compliance details.

Table 1–14 Subscription Management Communication Service Specifications

Service Type	Specification	Compliant?	Network Interface	Specification	Compliant?
Subscription Management API: OMA Application Subscription Management API Interface: REST	OMS GSSM V1.0, available from the Open Mobile Alliance website: `http://technical.openmobilealliance.org/Technical/release_program/gssm_v1_0.aspx`	Partial	REST	OMS GSSM V1.0, available from the Open Mobile Alliance website `http://technical.openmobilealliance.org/Technical/release_program/gssm_v1_0.aspx`	Partial, see "Parlay X 3.0 Application Subscription Management Compliance" for details

Table 1–15 lists the Services Gatekeeper terminal Status communication services, and links to the specifications they support and the chapters that have compliance details.

Table 1–15   Terminal Status Communication Service Specifications

Service Type	Specification	Compliant?	Network Interface	Specification	Compliant?
Terminal Status (deprecated) API: Parlay X 2.1 Terminal Status/MAP API Interface: SOAP	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), available from the 3GPP website: `ftp://ftp.3gpp.org/Specs/archive/29_series/29.199-04/29199-04-650.zip`	Yes	MAP	MAP 3.1, available from the ETSI website: `http://www.etsi.org/deliver/etsi_ts/129000_129099/129002/04.18.00_60/ts_129002v041800p.pdf`	Yes, see "Parlay X 2.1 Terminal Status Compliance" for details.
Terminal Status API: Parlay X 2.1 Terminal Status/SIP API Interface: SOAP	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), available from the 3GPP website: `ftp://ftp.3gpp.org/Specs/archive/29_series/29.199-04/29199-04-650.zip`	Yes	SIP	RFC 3261, available from the IETF website: `http://www.ietf.org/rfc/rfc3261.txt`	Yes
Terminal Status API: RESTful Terminal Status / SIP API Interface: REST	NA	NA	SIP	RFC 3261, available from the IETF website: `http://www.ietf.org/rfc/rfc3261.txt`	Yes

Table 1–16 lists the Services Gatekeeper third party call communication services, and links to the specifications they support and the chapters that have compliance details.

Table 1–16   Third Party Call Communication Service Specifications

Service Type	Specification	Compliant?	Network Interface	Specification	Compliant?
Third Party Call API: RESTful Third Party Call/SIP API Interface: REST	NA	NA	SIP	RFC 3261, available from the IETF website: `http://www.ietf.org/rfc/rfc3261.txt`	Yes
Third Party Call API: Parlay X 2.1 Third Party Call/SIP API Interface: SOAP	ETSI ES 202 391-2 V1.2.1 Open Service Access (OSA); Parlay X Web Services; Part 2: Third Party Call (Parlay X 2), available from `ftp://ftp.3gpp.org/Specs/archive/29_series/29.199-04/29199-04-650.zip`	Yes, see "Parlay X 2.1 Third Party Call Compliance" for details.	SIP	RFC 3261, available from `http://www.ietf.org/rfc/rfc3261.txt`	Yes, see "Parlay X 2.1 Third Party Call Compliance" for details.

Table 1–17 lists the Services Gatekeeper WAP push communication services, and links to the specifications they support and the chapters that have compliance details.

Table 1–17   WAP Push Communication Service Specifications

Service Type	Specification	Compliant?	Network Interface	Specification	Compliant?
WAP Push API: Extended Web Services WAP Push/PAP API Interface: SOAP	NA	NA	PAP	Push Access Protocol, WAP Forum, WAP-247-PAP-20010429-a available from `http://technical.openmobilealliance.org/tech/affiliates/wap/wap-247-pap-20010429-a.pdf`	Partial, see "Extended Web Services WAP Push Compliance" for details.
WAP Push API: RESTful WAP Push / PAP API Interface: REST	NA	NA	PAP	Push Access Protocol, WAP Forum, WAP-247-PAP-20010429-a available from `http://technical.openmobilealliance.org/tech/affiliates/wap/wap-247-pap-20010429-a.pdf`	Partial, see "Extended Web Services WAP Push Compliance" for details

2

OAuth Compliance

This chapter lists the security-related specifications that Oracle Communications Services Gatekeeper supports.

Supported OAuth Specification

OAuth 2.0 is an open source Web authorization protocol developed by the Internet Engineering Task Force (IETF). For detailed specifications and more information see the IETF website:

http://tools.ietf.org/html/rfc6749

Supported SAML Specification

See "SAML APIs" in *Oracle Fusion Middleware Programming Security for Oracle WebLogic Server 12c* for the SAML specification that WebLogic Server (and by definition Services Gatekeeper) supports.

3

Parlay X Web Services Address List Management Compliance

The following chapter describes the standard Oracle Communications Services Gatekeeper Parlay X Web Services Application Subscription Management communication service and how the interfaces and protocols comply to standards.

Parlay X Web Services Address List Management

This section describes the standards compliance for the Parlay X Web Services Part 13: Address List Management (3GPP TS 29.199-13 version 7.0.2 Release 7) communication service.

Standards Compliance

The plug-in complies with 3GPP TS 29.199-13 version 7.0.2 Release 7.

See Table 1–3, " Cross Cutting Services Communication Service Specifications" in "Services Gatekeeper Compliance Reference Table" for a link to the specification.

Table 3–1, Table 3–2, and Table 3–3 list the supported operations for the specification interfaces.

Table 3–1   Address List Management GroupManagement Interface Operations

Compliant (Yes | No)	Operation
Yes	createGroup
Yes	deleteGroup
Yes	queryGroups
Yes	setAccess
Yes	queryAccess

Table 3–2   Address List Management Group Interface Operations

Compliant (Yes | No)	Operation
Yes	addMember
Yes	deleteMember
Yes	deleteMembers

Table 3–2   (Cont.) Address List Management Group Interface Operations

Compliant (Yes | No)	Operation
Yes	queryMembers
Yes	addGroupAttribute
Yes	deleteGroupAttribute
Yes	queryGroupAttributes
Yes	addGroupMemberAttribute
Yes	deleteGroupMemberAttribute
Yes	queryGroupMemberAttributes

Table 3–3   Address List Management Member Interface Operations

Compliant (Yes | No)	Operation
Yes	addMemberAttribute
Yes	queryMemberAttributes
Yes	deleteMemberAttribute

4

Parlay X 2.1 Audio Call Compliance

The following chapter describes the standard Oracle Communications Services Gatekeeper Parlay X 2.1 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 Open Service Access (OSA); Parlay X Web Services; Part 11: Audio Call (Parlay X 2).

See Table 1–1, " Audio Call Specification Compliance Table" in "Services Gatekeeper Compliance Reference Table" for a link to the specification.

Table 4–1 lists the Parlay X 2.1 Audio Call methods that Services Gatekeeper supports.

Table 4–1   Statement of Compliance, Parlay X 2.1 Audio Call

Method	Compliant	Comment
Interface: Audio Call	NA	NA
PlayAudioMessage()	Yes	NA
GetMessageStatus()	Yes	NA
EndMessage()	Yes	NA

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. See Table 1–1, " Audio Call Specification Compliance Table" for the name of the supported specification and a link to its location.

Table 4–2 lists the messages that Parlay X 2.1 Audio Call SIP messages and responses that Services Gatekeeper supports.

Table 4–2   Statement of Compliance, SIP for Parlay X 2.1 Audio Call

Message/Response	Compliant?	Comment
REGISTER	NA	Not used in the context.
INVITE	Yes	NA
ACK	Yes	NA
CANCEL	Yes	NA
BYE	Yes	NA
OPTIONS	NA	Not used in the context.
INFO	NA	Not used in the context.
100 Trying	Yes	NA
180 Ringing	Yes	NA
181 Call Is Being Forwarded	NA	Not used in the context.
182 Queued	NA	Not used in the context.
183 Session Progress	NA	Not used in the context.
200 OK	Yes	NA
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 4–2   (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.

5

Parlay X 2.1 Call Notification Compliance

The following chapter describes the standard Oracle Communications Services Gatekeeper Parlay X 2.1 Call Notification communication service 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 Open Service Access (OSA); Parlay X Web Services; Part 3: Call Notification (Parlay X 2).

See Table 1–2, " Call Notification Communication Service Specifications" in "Services Gatekeeper Compliance Reference Table" for a link to the specification.

Table 5–1   Statement of Compliance, Parlay X 2.1 Call Notification

Method	Compliant?	Comment
Interface: CallDirection	NA	NA
handleBusy	Yes	NA
handleNotReachable	Yes	NA
handleNoAnswer	Yes	NA
handleCalledNumber	Yes	NA
Interface: CallNotification	NA	NA
notifyBusy	Yes	NA
notifyNotReachable	Yes	NA
notifyNoAnswer	Yes	NA
notifyCalledNumber	Yes	NA
Interface: CallDirectionManager	NA	NA
startCallDirectionNotification	Yes	NA
stopCallDirectionNotification	Yes	NA
Interface: CallNotificationManager	NA	NA
StartCallNotification	Yes	NA

Table 5–1   (Cont.) Statement of Compliance, Parlay X 2.1 Call Notification

Method	Compliant?	Comment
stopCallNotification	Yes	NA

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. See Table 1–1, " Audio Call Specification Compliance Table" for a link to this specification's location.

Table 5–2   Statement of Compliance, SIP for Parlay X 2.1 Call Notification

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

Table 5–2   (Cont.) Statement of Compliance, SIP for Parlay X 2.1 Call Notification

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

Table 5–2   (Cont.) Statement of Compliance, SIP for Parlay X 2.1 Call Notification

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

6

Parlay X 2.1 Multimedia Messaging Compliance

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

- Parlay X 2.1 Multimedia Messaging Statement of compliance
- MM7 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 Open Service Access (OSA); Parlay X Web Services; Part 5: Multimedia Messaging (Parlay X 2).

See Table 1–6, " Multimedia Messaging Communication Service Specifications" in "Services Gatekeeper Compliance Reference Table" for a link to the specification.

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

Method	Compliant?	Comment
Interface: SendMessage	NA	NA
SendMessage	Yes	NA
GetMessageDeliveryStatus	Yes	NA
Interface: ReceiveMessage	NA	NA
GetReceivedMessages	Yes	NA
GetMessageURIs	No	Throws an exception not supported.'
GetMessage	Yes	NA
Interface: MessageNotification	NA	NA
NotifyMessageReception	Yes	NA
NotifyMessageDeliveryReceipt	Yes	NA
Interface: MessageNotificationManager	NA	NA
StartMessageNotification	Yes	NA
StopMessageNotification	Yes	NA

MM7 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 toward 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 versions of the Multimedia Messaging Service (MMS), 3GPP TS 23.140 specifications listed in Table 1–1, " Audio Call Specification Compliance Table".

Messages are compliant with XSD schemes defined with name space

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

The plug-in support MSISDN (E.164) addresses and mail to 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?	Comment
Plug-in originated operations:	NA	NA
MM7_submit.REQ	Yes	NA
MM7_cancel.REQ	No	Not used in this context
MM7_delivery_report.RES	Yes	NA
MM7_deliver.RES	Yes	NA
MM7_replace.REQ	No	Not used in this context
MM7_read_reply.RES	No	Not used in this context
MM7_VASP_error.RES	No	Not used in this context
MMSC originated operations:	NA	NA
MM7_submit.RES	Yes	NA
MM7_cancel.RES	No	Not used in this context
MM7_delivery_report.REQ	Yes	NA
MM7_deliver.REQ	Yes	NA
MM7_RS_error.RES	Yes	NA
MM7_replace.RES	No	Not used in this context
MM7_read_reply.REQ	No	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. For the version 6.8.0 specification see:

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

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	Yes
MM7Version	Mandatory	Yes
MessageType	Mandatory	Yes
Sender Identification	Optional	Yes-SenderAddress,VASPID,VASID
RecipientAddress	Mandatory	Yes
ServiceCode	Optional	Yes
LinkedID	Optional	No
MessageClass	Optional	No
TimeStamp	Optional	No
ReplyChargingID	Optional	No
EarliestDeliveryTime	Optional	No
ExpiryDate	Optional	No
DeliveryReport	Optional	Yes
ReadReply	Optional	No
Priority	Optional	Yes
Subject	Optional	Yes
ChargedParty	Optional	Yes
ChargedPartyID	Optional	Yes
DistributionIndicator	Optional	No
Content	Optional	No
Content-Type	Mandatory	Yes

Table 6–4   Compliance for MM7 Submit Response Operation

Parameter	Mandatory, Conditional, or Optional	Compliant?
TransactionID	Mandatory	Yes
MM7Version	Mandatory	Yes
Status	Mandatory	Yes
MessageID	Conditional	Yes

Table 6–5   Compliance for MM7 Deliver Operation

Parameter	Mandatory or Optional	Compliant?
TransactionID	Mandatory	Yes
MM7Version	Mandatory	Yes
MMSRelayServerID	Optional	Yes
LinkedID	Optional	No
Sender	Mandatory	Yes
Recipients	Optional	Yes
TimeStamp	Optional	Yes
ReplyChargingID	Optional	No
Priority	Optional	Yes
Subject	Optional	Yes
Content	Optional	Yes
Content-Type	Mandatory	Yes

Table 6–6   Compliance for MM7 Deliver Response Operation

Parameter	Mandatory or Optional	Compliant?
TransactionID	Mandatory	Yes
MM7Version	Mandatory	Yes
ServiceCode	Optional	Yes
Status	Mandatory	Yes

Table 6–7   Compliance for MM7 Delivery Report Operation

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

Table 6–8   Compliance for MM7 Delivery Report Response Operation

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

7

Parlay X 2.1 Presence Compliance

The following chapter describes the standard Oracle Communications Services Gatekeeper Parlay X 2.1 Presence communication services and how the interfaces and protocols comply 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, Open Service Access (OSA); Parlay X Web Services; Part 14: Presence (Parlay X 2).

See Table 1–10, " Presence Communication Service Specifications" in "Services Gatekeeper Compliance Reference Table" for a link to the specification.

Table 7–1   Statement of Compliance, Parlay X 2.1 Presence

Method	Compliant?	Comment
Interface: PresenceConsumer	NA	NA
subscribePresence	Yes	NA
getUserPresence	Yes	NA
startPresenceNotification	Yes	NA
endPresenceNotification	Yes	NA
Interface: PresenceNotification	NA	NA
statusChanged	Yes	NA
statusEnd	Yes	NA
notifySubscription	Yes	NA
subscriptionEnded	Yes	NA
Interface: PresenceSupplier	NA	NA
publish	No	NA
getOpenSubscriptions	No	NA
updateSubscriptionAuthorization	No	NA
getMyWatchers	No	NA

Table 7–1   (Cont.) Statement of Compliance, Parlay X 2.1 Presence

Method	Compliant?	Comment
getSubscribedAttributes	No	NA
blockSubscription	No	NA

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. See " Audio Call Specification Compliance Table" for a link to it's location.

Additionally, the following IETF specification are used by WebLogic SIP Server

Session Initiation Protocol (IP) - specific Event Notification

The specification is here:

http://www.ietf.org/rfc/rfc3265.txt

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

The specification is here:

 http://www.ietf.org/rfc/rfc3856.txt

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

The specification is here:

http://tools.ietf.org/html/rfc4480

Table 7–2   Statement of Compliance, SIP for Parlay X 2.1 Presence

Message/Response	Compliant?	Comment
ACK	NA	Not used in the context.
REGISTER	NA	Not used in the context.
INVITE	NA	NA
CANCEL	NA	NA
BYE	NA	NA
OPTIONS	NA	Not used in the context.
SUBSCRIBE	Yes	NA
NOTIFY	Yes	NA
100 Trying	NA	Not used in the context.
180 Ringing	NA	Not used in the context.

Table 7–2   (Cont.) Statement of Compliance, SIP for Parlay X 2.1 Presence

Message/Response	Compliant?	Comment
181 Call Is Being Forwarded	NA	Not used in the context.
182 Queued	NA	Not used in the context.
183 Session Progress	NA	Not used in the context.
200 OK	Yes	NA
202 Accepted	Yes	NA
300 Multiple Choices	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
301 Moved Permanently	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
302 Moved Temporarily	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
305 Use Proxy	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
380 Alternative Service	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
400 Bad Request	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
401 Unauthorized	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
402 Payment Required	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
403 Forbidden	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
404 Not Found	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
405 Method Not Allowed	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
406 Not Acceptable	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
407 Proxy Authentication Required	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
408 Request Timeout	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
410 Gone	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
413 Request Entity Too Large	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
414 Request-URI Too Long	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
415 Unsupported Media Type	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
416 Unsupported URI Scheme	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
420 Bad Extension	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.

Table 7–2   (Cont.) Statement of Compliance, SIP for Parlay X 2.1 Presence

Message/Response	Compliant?	Comment
421 Extension Required	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
423 Interval Too Brief	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
480 Temporarily Unavailable	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
481 Call/Transaction Does Not Exist	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
482 Loop Detected	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
483 Too Many Hops	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
484 Address Incomplete	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
485 Ambiguous	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
486 Busy Here	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
487 Request Terminated	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
488 Not Acceptable Here	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
489 Bad Event	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
491 Request Pending	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
493 Undecipherable	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
500 Server Internal Error	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
501 Not Implemented	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
502 Bad Gateway	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
503 Service Unavailable	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
504 Server Time-out	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
505 Version Not Supported	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
513 Message Too Large	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
600 Busy Everywhere	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
603 Decline	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.

Table 7–2   (Cont.) Statement of Compliance, SIP for Parlay X 2.1 Presence

Message/Response	Compliant?	Comment
604 Does Not Exist Anywhere	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.
606 Not Acceptable	Yes	From a Parlay X 2.1 Presence standpoint the subscription will not be established.

8

Parlay X 2.1 Short Messaging (including EWS Binary SMS) Compliance

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

- Parlay X 2.1 Short Messaging Statement of compliance
- SMPP v3.4/5.0 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 Open Service Access (OSA); Parlay X Web Services; Part 4: Short Messaging (Parlay X 2).

See Table 1–12, " Short Messaging Communication Service Specifications" in "Services Gatekeeper Compliance Reference Table" for a link to the specification.

Table 8–1   Statement of Compliance, Parlay X 2.1 Short Messaging

Method	Compliant?	Comment
Interface: SendSms	NA	NA
sendSms	Yes	NA
sendSmsLogo	Yes	Note: The image is not scaled.
sendSmsRingtone	Yes	Note: Ringtones must be in either SmartMessaging or EMS (iMelody) format
getSmsDeliveryStatus	Yes	NA
Interface: SmsNotification	NA	NA
notifySmsReception	Yes	NA
notifySmsDeliveryReceipt	Yes	NA
Interface: ReceiveSms	NA	NA
getReceivedSms	Yes	NA
Interface: SmsNotificationManager	NA	NA
startSmsNotification	Yes	NA
stopSmsNotification	Yes	NA

SMPP v3.4/5.0 for Parlay X 2.1/Extended Web Services Binary SMS

The SMPP 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 through 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 through the Binary SMS interface.

Standards Compliance

This plug-in complies with the Short Message Peer to Peer, Protocol Specification. See " Audio Call Specification Compliance Table" for the supported versions of this specification and links to their locations.

Note: The Platform Test Environment interface supports both SMPP 3.4 and 5.0 specifications, but silently ignores any 5.0-specific fields

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Table 8–2   Statement of Compliance, SMPP v3.4/5.0 for Parlay X 2.1 Short Messaging

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

Table 8–2 (Cont.) Statement of Compliance, SMPP v3.4/5.0 for Parlay X 2.1 Short

Protocol Data Units (PDUs)	Compliant (Yes | No)	Comment
deliver_sm_resp	Yes	NA
cancel_sm	Yes	NA
enquire_link	Yes	NA
enquire_link_resp	Yes	NA
generic_nack	Yes	NA
bind_transceiver	Yes	NA
data_sm	No	NA
data_sm_resp	No	NA
query_sm	No	NA
replace_sm	No	NA
interface_version	Yes	Only with a value of **5.0**.
ussd_service_operation	Yes	NA
SMSC originated PDUs:	NA	NA
bind_transmitter_resp	Yes	NA
bind_receiver_resp	Yes	NA
unbind_resp	Yes	NA
submit_sm_resp	Yes	esm_classes: ■ Default message Type ■ SMSC Delivery receipt
submit_multi_resp	Yes	NA
deliver_sm	Yes	NA
cancel_sm_resp	Yes	NA
enquire_link	Yes	NA
enquire_link_resp	Yes	NA
generic_nack	Yes	NA
bind_transceiver_resp	Yes	NA
outbind	No	NA
data_sm	No	NA
data_sm_resp	No	NA
query_sm_resp	No	NA
replace_sm_resp	No	NA
alert_notification	No	NA

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. Services Gatekeeper supports these features as tunneled parameters.

Table 8–3   SMPP v5.0 for Parlay X 2.1 Short Messaging Tunneled Parameters

Parameter	Section in Specification	Comments
billing_identification	4.8.4.3	NA
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.

9

Parlay X 2.1 Terminal Location/SIP Compliance

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

- Parlay X 2.1 Terminal Location
- SIP 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, Open Service Access (OSA); Parlay X Web Services; Part 9: Terminal Location (Parlay X 2) specification.

See Table 1–15, " Terminal Status Communication Service Specifications" in "Services Gatekeeper Compliance Reference Table" for a link to the specification.

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

Method	Compliant?	Comment
Interface: TerminalLocation	NA	NA
GetLocation	Yes	NA
GetTerminalDistance	Yes	NA
GetLocationForGroup	Yes	NA
Interface: TerminalLocationNotificationManager	NA	NA
StartGeographicalNotification	Yes	NA
StartPeriodicNotification	Yes	NA
EndNotification	Yes	NA
Interface: TerminalLocationNotification	NA	NA
LocationNotification	Yes	NA
LocationError	Yes	NA
LocationEnd	Yes	NA

Understanding Parlay X 2.1 Terminal Location Latitude and Longitude Value Precision

See the discussion on understanding Parlay X 2.1 terminal location precision in *Services Gatekeeper Application Developer's Guide* for information on the precision levels of Services Gatekeeper location information in messages.

SIP for Parlay X 2.1 Terminal Location

This communication service uses the SIP protocol to connect to the Oracle Communications Converged Application Server (Converged Application Server), Service Controller product, using the IM-PSX GSM MAP interworking module. See the discussion on setting up IM-PSX GSM MAP in Oracle Communications Service Broker Modules Configuration Guide for details on configuring the IM-PSX GSM MAP module to work with this communication service.

Standards Compliance

See " Audio Call Specification Compliance Table" for the supported version of this specification, and a link to its location.

10

Parlay X 2.1 Terminal Status Compliance

The following chapter describes the standard Oracle Communications Services Gatekeeper Parlay X 2.1 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, Open Service Access (OSA); Parlay X Web Services; Part 8: Terminal Status (Parlay X 2).

See Table 1–15, " Terminal Status Communication Service Specifications" in "Services Gatekeeper Compliance Reference Table" for a link to the specification.

Table 10–1   Statement of Compliance, Parlay X 2.1 Terminal Status

Method	Compliant?	Comment
Interface: TerminalStatus	NA	NA
getStatus()	Yes	NA
getStatusForGroup()	Yes	NA
Interface: TerminalStatusNotificationManager	NA	NA
startNotification()	Yes	NA
endNotification()	Yes	NA
getStatus()	Yes	NA
Interface: TerminalStatusNotification	NA	NA
statusNotification()	Yes	NA
statusError()	Yes	NA
statusEnd()	Yes	NA

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 TietoEnator SS7 stack.

Standards Compliance

3rd Generation Partnership Project; Technical Specification Group Core Network; Mobile Application Part (MAP) specification, 3GPP TS 29.002. See " Audio Call Specification Compliance Table" for the supported version of this specification, and a link to its location.

Table 10–2   Statement of Compliance, MAP 3.1 for Parlay X 2.1 Terminal Status

Message	Compliant?	Comment
anyTimeInterrogationReq()	Yes	NA
anyTimeInterrogationRes()	Yes	NA
anyTimeInterrogation()	Yes	NA
anyTimeModificationReq()	Yes	NA
anyTimeModificationRes()	Yes	NA
anyTimeModification()	Yes	NA
NoteMMEvent	Yes	NA

11

Parlay X 2. 1 Third Party Call Compliance

The following chapter describes the standard Oracle Communications Services Gatekeeper Parlay X 2.1 Third Party Call communication service 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 Open Service Access (OSA); Parlay X Web Services; Part 2: Third Party Call (Parlay X 2).

See Table 1–16, " Third Party Call Communication Service Specifications" in "Services Gatekeeper Compliance Reference Table" for a link to the specification.

Table 11–1   Statement of Compliance, Parlay X 2.1 Third Party Call

Method	Compliant?	Comment
Interface: ThirdPartyCall	NA	NA
MakeCall	Yes	NA
GetCallInformation	Yes	NA
EndCall	Yes	NA
CancelCall	Yes	NA

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 here:

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 here:

http://www.ietf.org/rfc/rfc3725.txt

Table 11–2   Statement of Compliance, SIP for Parlay X 2.1 Third Party Call

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

Table 11–2   (Cont.) Statement of Compliance, SIP for Parlay X 2.1 Third Party Call

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

Table 11–3   Statement of Compliance, INAP/SS7 for Parlay X 2.1 Third Party Call

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

12

Parlay X 3.0 Application Subscription Management Compliance

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

Application Subscription Management Statement of Compliance

This section describes the standards compliance for the Application Subscription Management communication service.

The Application Subscription Management communication service complies with the OMS GSSM specification as follows:

- High-Level Requirements - no operations supported.

- Service Subscription Operations - compliant. See Table 12–1 for a list of the supported operations.

- Subscription Validation Operations - compliant. See Table 12–2 for a list of the supported operations.

- Provisioning Related Operations - no operations supported.

- Security - no operations supported.

- Authentication - no operations supported.

- Authorization - no operations supported.

- Integrity - no operations supported.

- Confidentiality - no operations supported.

- Charging - no operations supported.

- Administration and Configuration - no operations supported.

- Privacy - no operations supported.

See Table 1–14, " Subscription Management Communication Service Specifications" in "Services Gatekeeper Compliance Reference Table" for a link to the specification.

Supported Operations

The General Service Subscription Management communication service supports these parts of the OMA GSSM V 1.0 specification:

Table 12–1 lists the specification parts of the General Service Subscription Management specification that Services Gatekeeper supports.

Table 12–1   General Service Subscription Management Supported Parts

Feature	Description
SSO-1	The GSSM Enabler SHALL provide the principal with a mechanism to subscribe principals(s) to a service.
SSO-2	The GSSM Enabler SHALL provide the authorized principal with a mechanism to change the Subscription Profile (for example, contents, channels, valid term).
SSO-3	The GSSM Enabler SHALL provide the subscriber with the mechanism to suspend/resume the service subscription.
SSO-4	The GSSM Enabler SHALL provide the authorised principal with a mechanism to unsubscribe from a service.
SSO-5	The GSSM Enabler SHALL provide the authorized principal with a mechanism for querying the service subscriptions.
SSO-6	The GSSM Enabler SHALL support the selective retrieval of Subscription Profiles based on the criteria in the Subscription Profile (for example subscription creation time, subscriber, user, service, subscription specific parameters).
SSO-7	The GSSM Enabler SHALL be capable of delegating to related resources (such as business support systems, backend systems) using existing interfaces, part of the validation process for the new service subscription requests. Part of such validation processes to be taken by those business support systems, under a new service subscription request, could be: ■ Check if the user is not in a black list. ■ Check if current pricing plans or product offerings for the user allows for subscribing to this service. ■ Check compatibility of requested service with other services the user has already subscribed.

Table 12–2   Supported subscription Validation Operations

Feature	Description
SV-1	The GSSM Enabler SHALL be capable of validating a subscription based on the following criteria: ■ the service being requested ■ the principal for whom the service is being requested ■ the time when the service is being requested ■ the frequency with which the service is requested, for example how many times per day ■ preferred service delivery method(s), for example MMS, WAP
SV-2	The GSSM Enabler SHALL be capable of delegating to related Resources using existing interfaces, part of the evaluation process for the validation of the subscription.
SV-3	The GSSM Enabler SHALL be capable of querying and retrieving from related Resources using existing interfaces, the necessary information to validate a subscription.

Table 12–2   (Cont.) Supported subscription Validation Operations

Feature	Description
SV-4	The GSSM Enabler SHALL be capable of providing in the Subscription Validation result the information necessary for the operation and execution of the service provided to the user.
SV-5	Upon completion of the Subscription Validation, the GSSM Enabler SHALL be capable of delegating to related Resources part of the Service Subscription Provisioning process required for the delivery of the service to the user in accordance with the Subscription Profile.
SV-6	The GSSM Enabler SHALL support selecting and requesting either subscription validation or retrieval of the Subscription Profile data, for example in order for the requester to perform itself the validation operations.
SV-7	The GSSM Enabler SHALL be capable of providing necessary group information (for example ID of group members) upon response to a validation request for a group subscription.

13

Parlay X 3.0 Device Capabilities and Configuration Compliance

The following chapter describes the standard Oracle Communications Services Gatekeeper Parlay X 3.0 communication service and how the 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 ETSI ES 202 504-18, Open Service Access (OSA); Parlay X Web Services; Part 18: Device Capabilities and Configuration (Parlay X 3).

See Table 1–4, " Device Capabilities Communication Service Specifications" in "Services Gatekeeper Compliance Reference Table" for a link to the specification.

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

Method	Compliant?	Comments
Interface: DeviceCapabilities	NA	NA
getCapabilities	Yes	NA
getDeviceId	Yes	NA
Interface: DeviceCapabilitiesNotification Manager	NA	NA
startNotification	No	NA
endNotification	No	NA
Interface: DeviceCapabilitiesNotification	NA	NA
deviceNotification	No	NA
deviceError	No	NA
deviceEnd	No	NA
Interface: DeviceConfiguration	NA	NA
pushConfiguration	No	NA

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

Method	Compliant?	Comments
getConfigurationList	No	NA
getConfigurationHistory	No	NA

LDAP for Device Capabilities and Configuration

The LDAP plug-in for Device Capabilities acts as an LDAP client toward 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. See Table 1–4, " Device Capabilities Communication Service Specifications" for a link to its location.

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

Operation	Compliant	Comment
Bind	Yes	NA
Unbind	Yes	NA
Search	Yes	NA
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

Parlay X 3.0 Payment Compliance

The following chapter describes the standard Oracle Communications Services Gatekeeper Parlay X 3.0 Payment communication services and how the interfaces and protocols comply 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:

Standards Compliance

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

See Table 1–9, " Payment Communication Service Specifications" in "Services Gatekeeper Compliance Reference Table" for a link to the specification.

Table 14–1   Statement of Compliance, Parlay X 3.0 Payment

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

Table 14–1   (Cont.) Statement of Compliance, Parlay X 3.0 Payment

Method	Compliant (Yes | No)
ChargeReservation	Yes
ReleaseReservation	Yes
Interface: ReserveVolumeCharging	NA
GetAmount	Yes
ReserveVolume	Yes
ReserveAdditionalVolume	Yes
ChargeReservation	Yes
ReleaseReservation	Yes

Diameter for Parlay X 3.0 Payment

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

Standards Compliance

The plug-in complies with RFC3588 and RFC4006. See " Audio Call Specification Compliance Table" for links to the locations of these specifications.

Table 14–2   Statement of Compliance, Diameter for Parlay X 3.0 Payment

Diameter AVP	Compliant?	Comment
Subscription-Id	Yes	NA
OCSG-Charge-Description	NA	Services Gatekeeper custom.
Currency-Code	Yes	NA
Unit-Value.Exponent	Yes	NA
Unit-Value.Value-Digits	Yes	NA
Service-Context-Id	Yes	NA
OSCG-Reference-Code	NA	Services Gatekeeper custom.
Session-Id	Yes	NA
Origin-Realm	Yes	NA
Origin-Host	Yes	NA
Destination-Realm	Yes	NA
Auth-Application-Id	Yes	NA
CC-Request-Type	Yes	NA
Requested-Action	Yes	NA
CC-Request-Number	Yes	NA
User-Name	Yes	NA
OCSG-Application-Id	NA	Services Gatekeeper custom.
Result-Code	Yes	NA

Table 14–2   (Cont.) Statement of Compliance, Diameter for Parlay X 3.0 Payment

Diameter AVP	Compliant?	Comment
Service-Identifier	Yes	NA
Called-Party-Address	NA	Services Gatekeeper custom; identifies the application or subscriber receiving the service
Calling-Party-Address	NA	Services Gatekeeper custom; identifies the application or subscriber invoking the service

15

Parlay X 4.0 Application-Driven Quality of Service /Diameter Compliance

This chapter describes the standard Oracle Communications Services Gatekeeper Parlay X 4.0 Application-driven Quality of Service (QoS)/Diameter communication service and how the interfaces and protocols comply to standards.

Parlay X 4.0 Application-Driven QoS Statement of Compliance

This section describes the standards compliance for the communication services for Parlay X 4.0 Application-Driven QoS.

The Parlay X 4.0 interface complies with ETSI ES 202 504-17 Open Service Access (OSA); Parlay X Web Services; Part 17:Application-driven Quality of Service (QoS); Parlay X 3.

See Table 1–11, " Quality of Service Communication Service Specifications" in "Services Gatekeeper Compliance Reference Table" for a link to the specification.

Table 15–1   Statement of Compliance, Parlay X 4.0 Application-Driven QoS

Method	Compliant	Comment
Interface: ApplicationQoS	NA	NA
applyQoSFeature	Yes	This method sets temporary QoS feature profiles, but does not apply a default QoS feature profile. See the discussion on Parlay X 4.0 Quality of Service/Diameter in *Services Gatekeeper System Administrator's Guide* for more information.
modifyQoSFeature	Yes	NA
removeQoSFeature	Yes	NA
getQoSStatus	Yes	NA
getQoSHistory	Yes	NA
Interface: ApplicationQoSNotification Manager	NA	NA
startQoSNotification	Yes	NA
stopQoSNotification	Yes	NA
Interface: ApplicationQoSNotification	NA	NA
notifyQoSEvent	Yes	NA

Diameter Gx Statement of Compliance

Services Gatekeeper complies with a subset of the 3rd Generation Partnership Project; Technical Specification Group Core Network and Terminals; Policy and Charging Control (PCC); Reference points (Release 13) 3GPP TS 29.212 V13.5.0 (2016-03).

Table 15–2 lists the Diameter Gx AVPs Supported by Services Gatekeeper.

Table 15–2   Supported Diameter GX AVPs and Messages

Diameter Gx AVP	Diameter Gx Message	Notes
endUserOpaqueId	AAR	Added to request message from UE to PCRF, and then PECF.
requiredAccessInfo	AAR	Added to request message from UE to PCRF, and then PECF.
FramedPort	AAR	Added to request message from UE to PCRF, and then PECF.
msTimeZone	AAA	Added to the answer message and returned to Services Gatekeeper through PCRF, and also sent to UE.
userLocationInfo	AAA	Added to the answer message and returned to Services Gatekeeper through PCRF, and also sent to UE.
apnAMBRUL	AAA	Added to the answer message and returned to Services Gatekeeper through PCRF, and also sent to UE.
apnAMBRDL	AAA	Added to the answer message and returned to Services Gatekeeper through PCRF, and also sent to UE.

Diameter Rx Statement of Compliance

The Parlay X 4.0 Application-Driven QoS/Diameter communication service complies with the Policy and Charging Control over Rx reference point 3GPP TS 29.214 specification. See Table 1–11, " Quality of Service Communication Service Specifications" for the name and version of the supported specification and a link to its location.

Services Gatekeeper acts as a Diameter server for quality of service, and uses your Policy Control and Charging Rules Function (PCRF) as the diameter client.

Standards Compliance

Table 15–1 lists the Rx commands supported by Policy Controller.

Table 15–3   Supported Rx Messages

Command	Status	Link to List of Supported AVPs
AA-Request (AAR)	Supported	Supported Rx AA-Request AVPs
AA-Answer (AAA)	Supported	Supported Rx AA-Answer AVPs
Re-Auth-Request (RAR)	Supported	Supported Rx Re-Auth-Request AVPs
Re-Auth-Answer (RAA)	Supported	Supported Rx Re-Auth-Answer AVPs

Table 15–3   (Cont.) Supported Rx Messages

Command	Status	Link to List of Supported AVPs
Session-Termination-Request (STR)	Supported	Supported Rx Session-Termination-Request AVPs
Session-Termination-Answer (STA)	Supported	Supported Rx Session-Termination-Answer AVPs
Abort-Session-Request (ASR)	Supported	Supported Rx Abort-Session-Request AVPs
Abort-Session-Answer (ASA)	Supported	Supported Rx Abort-Session-Answer AVPs

Supported Rx AA-Request AVPs

Table 15–4 lists the supported Diameter Rx AA-Request (AAR) AVPs.

Table 15–4   Supported AAR AVPs

AVP	Status
Auth-Application-Id	Supported
Origin-Host	Supported
Origin-Realm	Supported
Destination-Realm	Supported
Destination-Host	Supported
AF-Application-Identifier	Supported
---- Media-Component-Description	Supported
---- ---- Media-Component-Number	Supported
---- ---- Media-Sub-Component	Supported
---- ---- AF-Application-Identifier	Supported
---- ---- Media-Type	Supported
---- ---- Max-Requested-Bandwidth-UL	Supported
---- ---- Max-Requested-Bandwidth-DL	Supported
---- ---- Flow-Status	Supported
---- ---- Reservation-Priority	Supported Reused from ETSI TS 183 017 V2.3.1 (2008-9)
---- ---- RS-Bandwidth	Supported
---- ---- RR-Bandwidth	Supported
---- ---- Codec-Data	Supported
---- Media-Component-Number	Supported
---- Media-Sub-Component	Supported
---- ---- Flow-Number	Supported
---- ---- Flow-Description	Supported
---- ---- Flow-Status	Supported
---- ---- Flow-Usage	Supported
---- ---- Max-Requested-Bandwidth-UL	Supported

Table 15–4   (Cont.) Supported AAR AVPs

AVP	Status
---- ---- Max-Requested-Bandwidth-DL	Supported
---- ---- AF-Signalling-Protocol	Supported
---- AF-Application-Identifier	Supported
---- Media-Type	Supported
---- Max-Requested-Bandwidth-UL	Supported
---- Max-Requested-Bandwidth-DL	Supported
---- Flow-Status	Supported
---- Reservation-Priority	Supported
---- RS-Bandwidth	Supported Reused from ETSI TS 183 017 V2.3.1 (2008-9)
---- RR-Bandwidth	Supported
---- Codec-Data	Supported
Service-Info-Status	Supported
AF-Charging-Identifier	Supported
SIP-Forking-Indication	Supported
Specific-Action	Supported
Subscription-Id	Supported Reused from RFC 4006
---- Subscription-Id-Type	Supported Reused from RFC 4006
---- Subscription-Id-Data	Supported Reused from RFC 4006
Supported-Features	Supported Reused from 3GPP TS 29.229
---- Vendor-Id	Supported Reused from 3GPP TS 29.229
---- Feature-List-ID	Supported Reused from 3GPP TS 29.229
---- Feature-List	Supported Reused from 3GPP TS 29.229
Reservation-Priority	Supported Reused from ETSI TS 183 017 V2.3.1 (2008-9)
Framed-IP-Address	Supported Reused from RFC 4005
Framed-IPv6-Prefix	Supported Reused from RFC 4005

Table 15–4   (Cont.) Supported AAR AVPs

AVP	Status
Called-Station-Id	Supported Reused from RFC 4005
Service-URN	Supported
Origin-State-Id	Supported
Proxy-Info	Supported
---- Proxy-Host	Supported
---- Proxy-State	Supported
Route-Record	Supported

Supported Rx AA-Answer AVPs

Table 15–5 lists the supported Diameter Rx AA-Answer (AAA) AVPs.

Table 15–5   Supported AAA AVPs

AVP	Status
Auth-Application-Id	Supported
Origin-Host	Supported
Origin-Realm	Supported
Result-Code	Supported
Experiment-Result	Supported
Access-Network-Charging-Identifier	Supported
---- Access-Network-Charging-Identifier-Value	Supported
---- Access-Network-Charging-Identifier-Value	Supported
---- Flows	Supported
---- ---- Media-Component-Number	Supported
---- ---- Flow-Number	Supported
---- ---- Final-Unit-Action	Supported Reused from RFC 4006
Access-Network-Charging-Address	Supported
Acceptable-Service-Info	Supported
---- Media-Component-Description	Supported
---- ---- Media-Component-Number	Supported
---- ---- Media-Sub-Component	Supported
---- ---- Flow-Number	Supported
---- ---- Flow-Description	Supported
---- ---- Flow-Status	Supported
---- ---- Flow-Usage	Supported
---- ---- Max-Requested-Bandwidth-UL	Supported

Table 15–5   (Cont.) Supported AAA AVPs

AVP	Status
---- ---- Max-Requested-Bandwidth-DL	Supported
---- ---- AF-Signalling-Protocol	Supported
---- ---- AF-Application-Identifier	Supported
---- ---- Media-Type	Supported
---- ---- Max-Requested-Bandwidth-UL	Supported
---- ---- Max-Requested-Bandwidth-DL	Supported
---- ---- Flow-Status	Supported
---- ---- Reservation-Priority	Supported Reused from ETSI TS 183 017 V2.3.1 (2008-9)
---- ---- RS-Bandwidth	Supported
---- ---- RR-Bandwidth	Supported
---- ---- Codec-Data	Supported
---- Max-Requested-Bandwidth-DL	Supported
---- Max-Requested-Bandwidth-UL	Supported
IP-CAN-Type	Supported Reused from 3GPP TS 29.212
RAT-Type	Supported Reused from 3GPP TS 29.212
Supported-Features	Supported Reused from 3GPP TS 29.229
---- Vendor-Id	Supported Reused from 3GPP TS 29.229
---- Feature-List-ID	Supported Reused from 3GPP TS 29.229
---- Feature-List	Supported Reused from 3GPP TS 29.229
Class	Supported
Error-Message	Supported
Error-Reporting-Host	Supported
Failed-AVP	Supported
---- AVP	Supported
Origin-State-Id	Supported
Redirect-Host	Supported
Redirect-Host-Usage	Supported
Redirect-Max-Cache-Time	Supported
Proxy-Info	Supported
---- Proxy-Host	Supported

Table 15–5   (Cont.) Supported AAA AVPs

AVP	Status
---- Proxy State	Supported

Supported Rx Re-Auth-Request AVPs

Table 15–6 lists the supported Diameter Rx Re-Auth-Request (RAR) AVPs.

Table 15–6   Supported RAR AVPs

AVP	Status
Origin-Host	Supported
Origin-Realm	Supported
Destination-Realm	Supported
Destination-Host	Supported
Auth-Application-Id	Supported
Specific-Action	Supported
Access-Network-Charging-Identifier	Supported
---- Access-Network-Charging-Identifier-Value	Supported
---- Access-Network-Charging-Identifier-Value	Supported
---- Flows	Supported
---- ---- Media-Component-Number	Supported
---- ---- Flow-Number	Supported
---- ---- Final-Unit-Action	Supported Reused from RFC 4006
Access-Network-Charging-Address	Supported
Flows	Supported
---- Media-Component-Number	Supported
---- Flow-Number	Supported
---- Final-Unit-Action	Supported Reused from RFC 4006
Subscription-Id	Supported Reused from RFC 4006
---- Subscription-Id-Type	Supported Reused from RFC 4006
---- Subscription-Id-Data	Supported Reused from RFC 4006
Abort-Cause	Supported
IP-CAN-Type	Supported Reused from 3GPP TS 29.212

Table 15–6   (Cont.) Supported RAR AVPs

AVP	Status
RAT-Type	Supported Reused from 3GPP TS 29.212
Origin-State-Id	Supported
Class	Supported
Proxy-Info	Supported
---- Proxy-Host	Supported
---- Proxy-State	Supported
Route-Record	Supported

Supported Rx Re-Auth-Answer AVPs

Table 15–7 lists the supported Diameter Rx Re-Auth-Answer (RAA) AVPs.

Table 15–7   Supported RAA AVPs

AVP	Status
Origin-Host	Supported
Origin-Realm	Supported
Experimental-Result	Supported
---- Vendor-Id	Supported
---- Experimental-Result-Code	Supported
Media-Component-Description	Supported
---- Media-Component-Number	Supported
---- Media-Sub-Component	Supported
---- AF-Application-Identifier	Supported
---- Media-Type	Supported
---- Max-Requested-Bandwidth-UL	Supported
---- Max-Requested-Bandwidth-DL	Supported
---- Flow-Status	Supported
---- Reservation-Priority	Supported Reused from ETSI TS 183 017 V2.3.1 (2008-9)
---- RS-Bandwidth	Supported
---- RR-Bandwidth	Supported
---- Codec-Data	Supported
Service-URN	Supported
Origin-State-Id	Supported
Class	Supported
Error-Message	Supported
Error-Reporting-Host	Supported
Redirect-Host	Supported

Table 15–7   (Cont.) Supported RAA AVPs

AVP	Status
Redirect-Host-Usage	Supported
Redirect-Max-Cache-Time	Supported
Failed-AVP	Supported
---- AVP	Supported
Proxy-Info	Supported
---- Proxy-Host	Supported
---- Proxy-State	Supported

Supported Rx Session-Termination-Request AVPs

Table 15–8 lists the supported Diameter Rx Session-Termination-Request (STR) AVPs.

Table 15–8   Supported STR AVPs

AVP	Status
Origin-Host	Supported
Origin-Realm	Supported
Destination-Realm	Supported
Auth-Application-Id	Supported
Termination-Cause	Supported
Destination-Host	Supported
Class	Supported
Origin-State-Id	Supported
Proxy-Info	Supported
---- Proxy-Host	Supported
---- Proxy-State	Supported
Route-Record	Supported

Supported Rx Session-Termination-Answer AVPs

Table 15–9 lists the supported Diameter Rx Session-Termination-Answer (STA) AVPs.

Table 15–9   Supported STA AVPs

AVP	Status
Origin-Host	Supported
Origin-Realm	Supported
Result-Code	Supported
Error-Message	Supported
Error-Reporting-Host	Supported
Failed-AVP	Supported
Origin-State-Id	Supported
Class	Supported

Table 15–9   (Cont.) Supported STA AVPs

AVP	Status
Redirect-Host	Supported
Redirect-Host-Usage	Supported
Redirect-Max-Cache-Time	Supported
Proxy-Info	Supported
---- Proxy-Host	Supported
---- Proxy-State	Supported

Supported Rx Abort-Session-Request AVPs

Table 15–10 lists the supported Diameter Rx Abort-Session-Request (ASR) AVPs.

Table 15–10   Supported ASR AVPs

AVP	Status
Origin-Host	Supported
Origin-Realm	Supported
Destination-Realm	Supported
Destination-Host	Supported
Auth-Application-Id	Supported
Abort-Cause	Supported
Origin-State-Id	Supported
Proxy-Info	Supported
---- Proxy-Host	Supported
---- Proxy State	Supported
Route-Record	Supported

Supported Rx Abort-Session-Answer AVPs

Table 15–11 lists the supported Diameter Rx Abort-Session-Answer (ASA) AVPs.

Table 15–11   Supported ASA AVPs

AVP	Status
Origin-Host	Supported
Origin-Realm	Supported
Result-Code	Supported
Origin-State-Id	Supported
Error-Message	Supported
Error-Reporting-Host	Supported
Failed-AVP	Supported
Redirect-Host	Supported
Redirect-Host-Usage	Supported
Redirect-Max-Cache-Time	Supported

Table 15–11   (Cont.) Supported ASA AVPs

AVP	Status
Proxy-Info	Supported
---- Proxy-Host	Supported
---- Proxy State	Supported

Non-Standard Supported Diameter AVPs

This section lists the Diameter Rx AVPs that Services Gatekeeper supports that are not included in the Policy and Charging Control over Rx reference point 3GPP TS 29.214 specification.

Table 15–12 lists the non-standard Diameter Rx AAR AVPs supported by Services Gatekeeper.

Table 15–12   Supported Non-Standard Diameter Rx AAR AVPs

Name	Code	Vendor ID	Type	Attribute Flag	Notes
FramedPort	4001	21274	Integer32	Ox80	The source port of the UE request received by AME. Often this is a NAT assigned port.
requiredAccessInfo	536	10415	Integer32	0xc0	Used for the required access info for different access types such as USER_ LOCATION or MS_TIMEZONE.

Table 15–13 lists the non-standard Diameter Rx AAA AVPs supported by Services Gatekeeper.

Table 15–13   Supported Non-Standard Diameter Rx AAA AVPs

Name	Code	Vendor ID	Type	Attribute Flag	Notes
MsTimeZone	23	10415	Byte	0xc0	Contain the hexadecimal representation of the 3GPP-MS-TimeZone defined in 3GPP TS 29.061.
userLocationInfo	22	10415	Byte	0xc0	Contain the hexadecimal representation of the 3GPP-User-Location-Info IE as defined in 3GPP TS 29.274.
endUserOpaqueId	4000	21274	Byte	0x80	Uniquely identifies a user.
apnAMBRUL	1041	10415	Unsigned32	0x80	Specifies the APN (Access point Name) Aggregate Maximum Bit Rate for Uplink.
apnAMBRDL	1040	10415	Unsigned32	0x80	Specifies the APN (Access point Name) Aggregate Maximum Bit Rate for Downlink.

16

Extended Web Services WAP Push Compliance

The following chapter describes the standard Oracle Communications Services Gatekeeper Extended Web Services WAP Push communication services and how the interfaces and protocols comply 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 adhere to the specifications listed in Table 1–17, " WAP Push Communication Service Specifications". See that table for a list of the supported specifications and links to their locations.

WAP Push for Extended Web Services WAP Push

The WAP Push plug-in for Extended Web Services WAP Push acts as an Push Initiator toward 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 toward the Location Server.

Standards Compliance

The plug-in complies to Push Access Protocol, WAP Forum, WAP-247-PAP-20010429-a. See Table 1–1, " Audio Call Specification Compliance Table" for the supported specification and a link to its location.

Table 16–1   Statement of Compliance, WAP Push for Extended Web Services WAP Push

Operation	Compliant?	Comment
push-message	Yes	NA
push-response	Yes	NA
cancel-message	No	NA
cancel-response	No	NA
resultnotification-message	Yes	NA

Table 16–1   (Cont.) Statement of Compliance, WAP Push for Extended Web Services

Operation	Compliant?	Comment
resultnotification-response	Yes	NA
statusquery-message	No	NA
statusquery-response	No	NA
ccq-message	No	NA
ccq-response	No	NA
badmessage-response	Yes	NA

17

Extended Web Services Subscriber Profile Compliance

The following chapter describes the standard Oracle Communications Services Gatekeeper Extended Web Services Subscriber Profile communication services and how the interfaces and protocols comply 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 toward 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 here:

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

Table 17–1   Statement of Compliance, LDAP for Extended Web Services Subscriber Profile

Operation	Compliant (Yes | No)	Comment
Bind	Yes	NA
Unbind	Yes	NA
Search	Yes	NA
Modify	No	Not used in the context.

Table 17–1 (Cont.) Statement of Compliance, LDAP for Extended Web Services Subscriber Profile

Operation	Compliant (Yes | No)	Comment
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.

18

Native MM7 Compliance

The following chapter describes the standard Oracle Communications Services Gatekeeper Native MM7 communication services and how the interfaces and protocols comply 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 the versions of the 3rd Generation Partnership Project; Technical Specification Group Terminals; Multimedia Messaging Service (MMS); Functional description; Stage 2, 3GPP TS23.140 listed in. Table 1–6, " Multimedia Messaging Communication Service Specifications" lists the supported specification versions and includes links to their locations.

This plug-in supports authentication using HTTP Basic Authentication according to HTTP Authentication: Basic and Digest Access Authentication, IETF; RFC 2617.

Table 18–1   Statement of Compliance Native MM7Service Facade

Operation	Compliant?	Comment
MMS VAS application originated operations:	NA	NA
MM7_submit.REQ	Yes	NA
MM7_cancel.REQ	No	NA
MM7_delivery_report.RES	Yes	NA
MM7_deliver.RES	Yes	NA
MM7_replace.REQ	No	NA
MM7_read_reply.RES	Yes	NA
MM7_VASP_error.RES	No	NA

Table 18–1   (Cont.) Statement of Compliance Native MM7Service Facade

Operation	Compliant?	Comment
MM7 Service Facade originated operations:	NA	NA
MM7_submit.RES	Yes	NA
MM7_cancel.REQ	No	NA
MM7_delivery_report.REQ	Yes	NA
MM7_deliver.REQ	Yes	NA
MM7_replace.RES	No	NA
MM7_read_reply.REQ	Yes	NA
MM7_RS_error.RES	No	NA

Native MM7 Service Enabler Standards Compliance

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

The Service Enabler complies to the versions of the 3rd Generation Partnership Project; Technical Specification Group Terminals; Multimedia Messaging Service (MMS); Functional description; Stage 2, 3GPP TS 23.140 listed in Table 18–2. See Table 1–1, " Audio Call Specification Compliance Table" for the supported specification version and a link to its location.

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

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

Table 18–2   Statement of Compliance Native MM7Service Enabler

Operation	Compliant?	Comment
MM7 Service Enabler originated operations:	NA	NA
MM7_submit.REQ	Yes	NA
MM7_cancel.REQ	No	NA
MM7_delivery_report.RES	Yes	NA
MM7_deliver.RES	Yes	NA
MM7_replace.REQ	No	NA
MM7_read_reply.RES	Yes	NA
MM7_VASP_error.RES	Yes	NA
MMSC originated operations:	NA	NA
MM7_submit.RES	Yes	NA
MM7_cancel.RES	Yes	NA
MM7_delivery_report.REQ	Yes	NA
MM7_deliver.REQ	Yes	NA
MM7_replace.RES	No	NA
MM7_read_reply.REQ	Yes	NA
MM7_RS_error.RES	Yes	NA

19

Native SMPP Compliance

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

- Native SMPP
- Native SMPP Service Facade Standards Compliance
- Native SMPP Service Enabler Standards Compliance

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. See Table 1–12, " Short Messaging Communication Service Specifications" for the supported specification version and a link to its location.

Table 19–1   Statement of Compliance, SMPP Service Facade

Operation	Compliant?	Comment
bind_transmitter	Yes	NA
bind_transmitter_resp	Yes	NA
bind_receiver	Yes	NA
bind_receiver_resp	Yes	NA
bind_transceiver	Yes	NA
bind_transceiver_resp	Yes	NA
outbind	No	NA
unbind	Yes	NA
unbind_resp	Yes	NA
generic_nack	Yes	NA
submit_sm	Yes	NA
submit_sm_resp	Yes	NA

Table 19–1 (Cont.) Statement of Compliance, SMPP Service Facade

Operation	Compliant?	Comment
submit_sm_multi	Yes	NA
submit_sm_multi_resp	Yes	NA
deliver_sm	Yes	NA
deliver_sm_resp	Yes	NA
data_sm	No	NA
data_sm_resp	No	NA
query_sm	Yes	NA
query_sm_resp	Yes	NA
cancel_sm	Yes	NA
cancel_sm_resp	Yes	NA
replace_sm	Yes	NA
replace_sm_resp	Yes	NA
enquire_link	Yes	NA
enquire_link_resp	Yes	NA
alert_notification	No	NA

Native SMPP Service Enabler Standards Compliance

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

The Service Enabler Complies to Short Message Peer to Peer, Protocol Specification v3.4. See Table 1–1, " Audio Call Specification Compliance Table" for the supported specification version and a link to its location.

Table 19–2 Statement of Compliance, SMPP Service Enabler

Operation	Compliant?	Comment
bind_transmitter	Yes	NA
bind_transmitter_resp	Yes	NA
bind_receiver	Yes	NA
bind_receiver_resp	Yes	NA
bind_transceiver	Yes	NA
bind_transceiver_resp	Yes	NA
outbind	No	NA
unbind	Yes	NA
unbind_resp	Yes	NA
generic_nack	Yes	NA
submit_sm	Yes	NA
submit_sm_resp	Yes	NA
submit_sm_multi	Yes	NA
submit_sm_multi_resp	Yes	NA

Table 19–2   (Cont.) Statement of Compliance, SMPP Service Enabler

Operation	Compliant?	Comment
deliver_sm	Yes	NA
deliver_sm_resp	Yes	NA
data_sm	No	NA
data_sm_resp	No	NA
query_sm	Yes	NA
query_sm_resp	Yes	NA
cancel_sm	Yes	NA
cancel_sm_resp	Yes	NA
replace_sm	Yes	NA
replace_sm_resp	Yes	NA
enquire_link	Yes	NA
enquire_link_resp	Yes	NA
alert_notification	No	NA

Native SMPP Version 5.1 Standards Compliance

The native SMPP communication service supports the following features, which are defined in the Short Message Peer-to-Peer Protocol Specification, Version 5.1. Services Gatekeeper supports these features as tunneled parameters.

Table 19–3   Statement of Compliance for Version 5.1 Features

Parameter	Section in Specification	Comments
billing_identification	4.8.4.3	
ussd_service_ operation	4.8.4.64	Version 5.1 added support to deliver_sm for bidrectional USSD.
interface_version	4.7.13	The Native SMPP Service accepts 5.1 as well as 3.4 as the interface version number.

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Native UCP Compliance

The following chapter describes Oracle Communications Services Gatekeeper Native UCP Communication Service and how the interfaces and protocols comply to standards.

Native UCP

The Native UCP communication service complies with the Short Message Service Centre EMI-UCP Interface specification. See Table 1–12, "Short Messaging Communication Service Specifications" for the supported specification version and a link to its location.

Table 20–1 describes Native UCP's compliance with the Short Message Service Centre EMI-UCP specification.

Table 20–1   Statement of Compliance, Native UCP

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

21

OneAPI Multimedia Messaging Compliance

The following chapter describes the Oracle Communications Services Gatekeeper OneAPI multimedia messaging interface standards for RESTful web services.

OneAPI Multimedia Messaging Interface

This section describes the standards compliance for the OneAPI Multimedia Messaging interface standards for RESTful web services.

Standards Compliance - RESTful Bindings

The OneAPI Multimedia Messaging interface complies with the RESTful bindings for Parlay X Web Services – Multi-media Messaging OMA specification.

See Table 1–6, " Multimedia Messaging Communication Service Specifications" in "Services Gatekeeper Compliance Reference Table" for a link to the specification.

Standards Compliance - RESTful Bindings Schema

The RESTful web service complies with the schema definition for the XML data type definitions for OMA RESTful Network API for Messaging. See Table 1–1, " Audio Call Specification Compliance Table" for the supported version and a link to its location.

RESTful Bindings Data Structure Compliance

Table 21–1 lists the data structures that Services Gatekeeper supports from the RESTful bindings for Parlay X Web Services – Multi-media Messaging OMA specification.

Table 21–1   Multimedia Messaging ParlayREST Data Structure Compliance

API Data Structure	Compliant?	Comments
Type: InboundMessageList	Yes	NA
Type: InboundMessage	Yes	NA
Type: nboundMessageNotification	Yes	NA
Type: InboundSMSTextMessage	Yes	NA
Type: InboundMMSMessage	Yes	NA
Type: InboundMMessage	Yes	NA
Type: SubscriptionList	Yes	NA
Type: Subscription	Yes	NA
Type: InboundMessageRetrieveAndDeleteRequest	Yes	NA

Table 21–1   (Cont.) Multimedia Messaging ParlayREST Data Structure Compliance

API Data Structure	Compliant?	Comments
Type: OutboundMessageRequestList	Yes	NA
Type: OutboundMessageRequest	Yes	NA
Type: OutboundMMSMessage	Yes	NA
Type: OutboundWAPMessage	Yes	NA
Type: OutboundSMSTextMessage	Yes	NA
Type: OutboundSMSBinaryMessage	Yes	NA
Type: OutboundSMSLogoMessage	Yes	NA
Type: OutboundSMSRingToneMessage	Yes	NA
Type: OutboundSMSMMessage	Yes	NA
Type: DeliveryInfoList	Yes	NA
Type: DeliveryInfoNotification	Yes	NA
Type: DeliveryInfo	Yes	NA
Type: DeliveryReceiptSubscriptionList	Yes	NA
Type: DeliveryReceiptSubscription	Yes	NA
Enumeration: DeliveryStatus	Yes	NA
Enumeration: IMFormat	Yes	NA
Enumeration: MessagePriority	Yes	NA
Enumeration: RetrievalOrder	Yes	NA
Enumeration: ServiceIndicationAction	Yes	NA
Enumeration: ServiceLoadingAction	Yes	NA
Enumeration: SmsFormat	Yes	NA
Enumeration: WAPContent	Yes	NA
Values of the Link rel attribute	Yes	NA
MIME multipart representation	Yes	NA
Resource: Inbound messages for a given registration	Yes	NA
Resource: Inbound messages retrieve and delete using registration	Yes	NA
Resource: Retrieval and deletion of individual inbound message using registration	Yes	NA
Resource: Inbound message for a given registration	Yes	NA
Resource: Inbound message attachment	Yes	NA
Resource: Inbound message subscriptions	Yes	NA
Resource: Individual inbound message subscription	Yes	NA
Resource: Client notification about inbound message	Yes	NA
Resource: Outbound message requests	Yes	NA

Table 21–1 (Cont.) Multimedia Messaging ParlayREST Data Structure Compliance

API Data Structure	Compliant?	Comments
Resource: Outbound message request and delivery status	Yes	NA
Resource: Outbound message delivery status	Yes	NA
Resource: Outbound message delivery notification subscriptions	Yes	NA
Resource: Individual outbound message delivery notification subscription	Yes	NA
Resource: Client notification about outbound message delivery status	Yes	NA

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OneAPI Terminal Location Interface Compliance

This chapter describes the Oracle Communications Services Gatekeeper OneAPI Terminal Location interface standards for RESTful web services.

OneAPI Terminal Location Interface

This section describes the standards compliance for the OneAPI Terminal Location interface standards for RESTful web services.

Standards Compliance - RESTful Bindings

The OneAPI terminal location interface complies with the *RESTful bindings for Parlay X Web Services – Terminal Location* specification.

Standards Compliance - RESTful Bindings Schema

The RESTful web service complies with the schema definition for the *RESTfule bindings for Parlay X Web Service, Terminal Location* specification. See Table 1–1, " Audio Call Specification Compliance Table" for the supported version and a link to its location.

RESTful Bindings Data Structure Compliance

Table 22–1 lists the data structures that Services Gatekeeper supports from the *RESTful bindings for Parlay X Web Services, Terminal Location* specification

Table 22–1   Terminal Location ParlayREST Data Structure Compliance

API Data Structure	Compliant?	Comments
Type: Terminal Location	Yes	NA
Type: TerminalLocationList	Yes	NA
Type: SubscriptionNotification	Yes	NA
Type: SubscriptionCancellationNotification	Yes	NA
Type: TerminalDistance	Yes	NA
Type: LocationInfo	Yes	NA
Type: NotificationSubscriptionList	Yes	NA
Type: CircleNotificatonSubscription	Yes	NA
Type: PeriodicNotificationSubscription	Yes	NA

Table 22–1   (Cont.) Terminal Location ParlayREST Data Structure Compliance

API Data Structure	Compliant?	Comments
Type: DistanceNotificationSubscription	Yes	NA
Enumeration: EnteringLeavingCriteria	Yes	NA
Enumeration: DistanceCriteria	Yes	NA
Enumeration: DelayToleance	Yes	NA
Values of the Link "rel" attribute	Yes	NA
Resource: Terminal Location	Yes	NA
Resource Terminal Distance	Yes	NA
Resource: Periodic location notification subscriptions	Yes	NA
Resource: Individual periodic location notification subscription	Yes	NA
Resource: Area (circle) notification subscriptions	Yes	NA
Resource: Area (circle) individual notification subscription	Yes	NA
Resource: Distance notification subscriptions	Yes	NA
Resource: Distance individual notification subscription	Yes	NA
Resource: Client notification callback resource	Yes	NA

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OneAPI Payment Compliance

This chapter describes the Oracle Communications Services Gatekeeper OneAPI Payment interface standards for RESTful web services.

OneAPI Payment Interface

This section describes the standards compliance for the OneAPI Payment interface standards for RESTful web services.

Standards Compliance - RESTful Bindings

Services Gatekeeper complies with the RESTful web services *RESTful bindings for Parlay X Web Services–Payment* specification. See Table 1–1, " Audio Call Specification Compliance Table" for the supported version and a link to its location.

Standards Compliance - RESTful Bindings Schema

The OneAPI Payment interface complies with the schema definition for the *XML data type definitions for OMA RESTful Network API for Payment* specification. See Table 1–9, " Payment Communication Service Specifications" for the supported version and a link to its location.

RESTful Bindings Data Structure Compliance

Table 23–1 lists the data structures that Services Gatekeeper supports from the *RESTful bindings for Parlay X Web Services–Payment* specification.

Table 23–1   OneAPI Payment ParlayREST Data Structure Compliance

API Data Structure	Compliant?	Comments
Type: PaymentTransactionList	Yes	NA
Type: AmountTransaction	Yes	NA
Type: AmountSplitTransaction	Yes	NA
Type: VolumeTransaction	Yes	NA
Type: VolumeSplitTransaction	Yes	NA
Type: AmountReservationTransaction	Yes	NA
Type: VolumeReservationTransaction	Yes	NA
Type: PaymentAmount	Yes	NA
Type: ChargingMetaData	Yes	NA

Table 23–1   (Cont.) OneAPI Payment ParlayREST Data Structure Compliance

API Data Structure	Compliant?	Comments
Type: EndUserShare	Yes	NA
Type: Rating Parameter	Yes	NA
Enumeration: TransactionOperationStatus	Yes	NA
Values of the Link "rel" attribute	Yes	NA
Resource: All payment transactions for an end user	Yes	NA
Resource: All amount charge and refund transactions for an end user	Yes	NA
Resource: All amount split charge transactions for an end user	Yes	NA
Resource: Individual amount charge or refund transaction for an end user	Yes	NA
Resource: Individual amount split charge transaction for an end use	Yes	NA
Resource: All volume charge and refund transactions for an end user	Yes	NA
Resource: All volume split charge transactions for an end user	Yes	NA

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OneAPI Short Messaging Compliance

The following chapter describes the Oracle Communications Services Gatekeeper OneAPI Short Messaging interface standards for RESTful web services.

OneAPI Short Messaging Interface

This section describes standards compliance for the Services Gatekeeper OneAPI Short Messaging interface.

Standards Compliance - RESTful Bindings

The OneAPI Short Messaging interface complies with *RESTful bindings for Parlay X Web Services–Short Messaging* specification. See Table 1–12, " Short Messaging Communication Service Specifications" for the supported version and a link to its location.

Standards Compliance - RESTful Bindings Schema

The OneAPI Short Messaging interface complies with the schema definition for the *RESTful Bindings for Parlay X Web Services, Short Messaging* specification. See Table 1–1, " Audio Call Specification Compliance Table" for the supported version and a link to its location.

RESTful Bindings Data Structure Compliance

Table 24–1 lists the data structures that Services Gatekeeper supports from the RESTful bindings for Parlay X Web Services–Short Messaging specification.

Table 24–1   OneAPI Short Messaging ParlayREST Data Structure Compliance

API Data Structure	Compliant?	Comments
Type: InboundSMSMSessageList	Yes	NA
Type: InboundSMSMessage	Yes	NA
Type: InboundSMSMessageNotification	Yes	NA
Type: SubscriptionList	Yes	NA
Type: Subscription	Yes	NA
Type: InboundSMSMessageRetrieveAndDeleteRequest	Yes	NA
Type: OutboundSMSMEssageRequestList	Yes	NA
Type: OutboundSMSMessageRequest	Yes	NA

Table 24–1   (Cont.) OneAPI Short Messaging ParlayREST Data Structure Compliance

API Data Structure	Compliant?	Comments
Type: OutboundSMSTextMessage	Yes	NA
Type: OutboundSMSBinaryMessage	Yes	NA
Type: OutboundSMSLogoMessage	Yes	NA
Type: OutboundSMSRingToneMessage	Yes	NA
Type: DeliveryInfoList	Yes	NA
Type: DeliveryInfoNotification	Yes	NA
Type: DeliveryInfo	Yes	NA
Type: DeliveryReceiptSubscriptionList	Yes	NA
Type: DeliveryReceiptSubscription	Yes	NA
Enumeration: DeliveryStatus	Yes	NA
Enumeration: SmsFormat	Yes	NA
Enumeration:RetrievalOrder	Yes	NA
Values of the Link "rel" attribute	Yes	NA
Resource: Inbound SMS message requests for a given registration	Yes	NA
Resource: Inbound SMS messages Retrieve and Delete using registration	Yes	NA
Resource: Inbound SMS message for a given registration	Yes	NA
Resource: Inbound SMS message subscriptions	Yes	NA
Resource: Individual inbound SMS message subscription	Yes	NA
Resource: Client notification about inbound SMS message	Yes	NA
Resource: Outbound SMS message requests	Yes	NA
Resource: Outbound SMS message request and delivery status	Yes	NA
Resource: Outbound SMS message delivery status	Yes	NA
Resource: Outbound SMS message delivery notification subscriptions	Yes	NA
Resource: Individual outbound SMS message delivery notification subscription	Yes	NA
Resource: Client notification about outbound SMS message delivery status	Yes	NA

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RESTful Anonymous Customer Reference Compliance

This chapter lists the Anonymous Customer Reference (ACR) specifications supported by RESTful interfaces in Oracle Communications Services Gatekeeper.

Anonymous Customer Reference Specification

See Table 1–3, " Cross Cutting Services Communication Service Specifications" for the supported ACR specification version, and a link to its location