



OneAPI profile of Parlay X Web Services

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1. Scope

The scope of this specification is to specify a versioned profile of a subset of the existing Parlay X SOAP Web Service specifications. This specification contains tables, with information, on what interfaces are mandated in the profile that must be implemented in order to claim that the instance complies with the profile.

The GSMA OneAPI project is addressing deployment and operational considerations for 3rd party applications, and is re-using a subset of the Parlay X Web Services APIs for this. It aims to reduce the effort and time needed to create applications and content that is portable across mobile operators.

2. References

2.1 Normative References

- [3GPP TS 29.199-01] “Open Service Access (OSA); Parlay X web services; Part 1:Common”, Release 8, Third Generation Partnership Project, URL: <http://www.3gpp.org/ftp/Specs/html-info/29-series.htm>
- [3GPP TS 29.199-04] “Open Service Access (OSA); Parlay X web services; Part 4: Short messaging”, Release 8, Third Generation Partnership Project, URL: <http://www.3gpp.org/ftp/Specs/html-info/29-series.htm>
- [3GPP TS 29.199-05] “Open Service Access (OSA); Parlay X web services; Part 5: Multimedia messaging”, Release 8, Third Generation Partnership Project, URL: <http://www.3gpp.org/ftp/Specs/html-info/29-series.htm>
- [3GPP TS 29.199-06] “Open Service Access (OSA); Parlay X web services; Part 6: Payment”, Release 8, Third Generation Partnership Project, URL: <http://www.3gpp.org/ftp/Specs/html-info/29-series.htm>
- [3GPP TS 29.199-09] “Open Service Access (OSA); Parlay X web services; Part 9: Terminal location”, Release 8, Third Generation Partnership Project, URL: <http://www.3gpp.org/ftp/Specs/html-info/29-series.htm>
- [RFC2119] “Key words for use in RFCs to Indicate Requirement Levels”, S. Bradner, March 1997, URL:<http://www.ietf.org/rfc/rfc2119.txt>
- [RFC4234] “Augmented BNF for Syntax Specifications: ABNF”. D. Crocker, Ed., P. Overell. October 2005, URL:<http://www.ietf.org/rfc/rfc4234.txt>
- [SCRRULES] “SCR Rules and Procedures”, Open Mobile Alliance™, OMA-ORG-SCR_Rules_and_Procedures, URL:<http://www.openmobilealliance.org/>

2.2 Informative References

- [OMADICT] “Dictionary for OMA Specifications”, Version 2.8, Open Mobile Alliance™, OMA-ORG-Dictionary-V2_8, URL:<http://www.openmobilealliance.org/>

3. Terminology and Conventions

3.1 Conventions

The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described in [RFC2119].

All sections and appendixes, except “Scope” and “Introduction”, are normative, unless they are explicitly indicated to be informative.

3.2 Definitions

N/A

3.3 Abbreviations

MMS	Multimedia Messaging Service
OMA	Open Mobile Alliance
GSMA	GSM Association
OneAPI	Open network enabler API
PXPROF	OneAPI profile of the Parlay X SOAP web services
SMS	Short Messaging Service

4. Introduction

The OneAPI profile of the Parlay X SOAP web services (PXPROF) defines a subset of the interfaces and operations that must be supported by any entity conforming to the profile. For example, for the SMS enabler the profile mandates support for the sendSms operation of the SendSms interface, but the profile does not mandate support for sendSmsLogo or sendSmsRingtone. The profile does not change the operations themselves in any way, e.g. parameters, whether optional or mandatory, behaviour, etc.

The profile is linked to a specific version of the Parlay X SOAP enablers listed in the tables.

5. Version 1.0

The first version of the profile contains tables for SMS, MMS, Terminal location and Payment as specified in the following four subchapters. The referenced exceptions and policies are defined in [3GPP TS 29.199-01].

5.1 SMS profile

The key objective in choosing this subset is to provide a simple set of operations, which could be used by typical web application developers to send and receive SMS messages.

OneAPI Parlay X Profile for SMS compared to [3GPP TS 29.199-04]:

5.1.1 Methods

Interfaces	Methods	OneAPI Profile Compliance	Comments
SendSMS			
	SendSms	X	
	SendSmsLogo		
	SendSmsRingtone		
	GetSmsDeliveryStatus	X	
	ScheduleSms		
	ScheduleSmsLogo		
	ScheduleSmsRingtone		
	CancelScheduledSms		
	GetScheduledSmsStatus		
SmsNotification			
	NotifySmsReception	X	
	NotifySmsDeliveryReceipt	X	
ReceiveSms			
	GetReceivedSms	X	
SmsNotificationManager			
	StartSmsNotification	X	
	StopSmsNotification	X	
	startDeliveryReceiptNotification	X	
	stopDeliveryReceiptNotification	X	

Table 1: PXPROF SMS methods

5.1.2 Exceptions

Faults	OneAPI Profile Compliance	Comments
SVC0001 - Service error.	X	
SVC0002 - Invalid input value.	X	
SVC0004 - No valid addresses.	X	
SVC0005 – Duplicate correlator	X	
SVC0006 - Invalid group.	X	
SVC0008 – Overlapping criteria	X	
SVC0280 - Message too long.	X	
SVC0281 – Unrecognized data format		
SVC0283 – Delivery Receipt Notification not supported	X	
POL0001 - Policy error.	X	
POL0006 - Groups not allowed.	X	
POL0007 - Nested groups not allowed.	X	
POL0008 - Charging not allowed.	X	
POL0010 – Retention time interval expired	X	

Table 2: PXPROF SMS exceptions

5.1.3 Policies

Service Policies	OneAPI Profile Compliance	Comments
GroupSupport	X	
NestedGroupSupport	X	
ChargingSupported	X	
StatusRetentionTime	X	
MessageRetentionTime	X	

Table 3: PXPROF SMS policies

5.2 MMS profile

The key objective in choosing this subset is to provide a simple set of operations, which could be used by typical web application developers to send and receive MMS messages.

OneAPI Parlay X Profile for MMS compared to [3GPP TS 29.199-05]:

5.2.1 Methods

Interfaces	Methods	OneAPI Profile Compliance	Comments
SendMessage			
	SendMessage	X	
	GetMessageDeliveryStatus	X	
	ScheduleMessage		
	CancelScheduledMessage		
	GetScheduledMessageStatus		
ReceiveMessage			
	GetReceivedMessages	X	
	GetMessageURIs	X	
	GetMessage		
MessageNotification			
	NotifyMessageReception	X	
	NotifyMessageDeliveryReceipt	X	
MessageNotificationManager			
	StartMessageNotification	X	
	StopMessageNotification	X	
	StartDeliveryReceiptNotification	X	
	StopDeliveryReceiptNotification	X	

Table 4: PXPROF MMS methods

5.2.2 Exceptions

Faults	OneAPI Profile Compliance	Comments
SVC0001 - Service error.	X	
SVC0002 - Invalid input value.	X	
SVC0004 - No valid addresses.	X	
SVC0005 – Duplicate correlator	X	
SVC0006 - Invalid group.	X	
SVC0008 – Overlapping Criteria	X	
SVC0283 – Delivery Receipt Notification not supported	X	
POL0001 - Policy error.	X	
POL0006 - Groups not allowed.	X	
POL0007 - Nested groups not allowed.	X	
POL0008 - Charging not allowed.	X	
POL0010 – Retention time interval expired	X	

Table 5: PXPROF MMS exceptions

5.2.3 Policies

Service Policies	OneAPI Profile Compliance	Comments
GroupSupport	X	
NestedGroupSupport	X	
ChargingSupported	X	
StatusRetentionTime	X	
MessageRetentionTime	X	

Table 6: PXPROF MMS policies

5.3 Terminal Location

The key objective in choosing this subset was to provide a simple set of operations, which could be used by typical web application developers to get the location of a terminal.

OneAPI Parlay X Profile for Terminal Location compared to [3GPP TS 29.199-09]:

5.3.1 Methods

Interfaces	Methods	OneAPI Profile Compliance	Comments
TerminalLocation			
	GetLocation	X	
	GetTerminalDistance		
	GetLocationForGroup	X	
TerminalLocationNotificationManager			
	StartGeographicalNotification		
	StartPeriodicNotification		
	EndNotification		
TerminalLocationNotification			
	LocationNotification		
	LocationError		
	LocationEnd		

Table 7: PXPROF Terminal Location methods

5.3.2 Exceptions

Faults	OneAPI Profile Compliance	Comments
SVC0001 - Service error.	X	
SVC0002 - Invalid input value.	X	
SVC0004 - No valid addresses.	X	
SVC0005: Duplicate correlator		
SVC0006: Invalid group.	X	
SVC0200 - Accuracy out of limit.	X	
POL0001 - Policy error	X	
POL0002 - Privacy error.	X	

POL0006 - Groups not allowed.	X	
POL0230 - Requested accuracy not supported	X	
POL0003: Too many addresses		
POL0004: Unlimited notifications not supported.		
POL0005: Too many notifications requested.		
POL0007: Nested groups not allowed		
POL0009: Invalid frequency requested		
POL0231: Geographic notification not available		
POL0232: Periodic notification not available.		

Table 8: PXPROF Terminal Location exceptions

5.3.3 Policies

Service Policies	OneAPI Profile Compliance	Comments
MinimumAccuracy	X	
MinimumAcceptableAccuracy	X	
MinimumTrackingAccuracy		
GeographicalNotificationAvailable		
PeriodicNotificationAvailable		
AltitudeAlwaysAvailable		
AltitudeSometimesAvailable		
MaximumNotificationAddresses		
MaximumNotificationFrequency		
MaximumNotificationDuration		
MaximumCount		
UnlimitedCountAllowed		
GroupSupport	X	
NestedGroupSupport	X	

Table 9: PXPROF Terminal Location policies

5.4 Payment

The key objective in choosing this subset was to provide a simple set of operations, which could be used by typical web application developers to make charges and reservations.

OneAPI Parlay X Profile for Payment compared to [3GPP TS 29.199-06]:

5.4.1 Methods

Interfaces	Methods	OneAPI Profile Compliance	Comments
AmountCharging			
	ChargeAmount	X	
	RefundAmount	X	
VolumeCharging	ChargeSplitAmount		
	ChargeVolume		
	GetAmount		
	RefundVolume		
ReserveAmountCharging	ChargeSplitVolume		
	ReserveAmount	X	
	ReserveAdditionalAmount	X	
	ChargeReservation	X	
ReserveVolumeCharging	ReleaseReservation	X	
	GetAmount		
	ReserveVolume		
	ReserveAdditionalVolume		
	ChargeReservation		
	ReleaseReservation		

Table 10: PXPROF Payment methods

5.4.2 Exceptions

Faults	OneAPI Profile Compliance	Comments
SVC0001 - Service error.	X	
SVC0002 - Invalid input value.	X	
SVC0007 - Invalid charging information	X	
SVC0270 - Charge failed	X	
SVC0271: Invalid sum of percentage allocations		
POL0001 - Policy error	X	
POL0250: Too many endUserIdentifiers		
POL0251: Split charging not supported		

Table 11: PXPROF Payment exceptions

5.4.3 Policies

Service Policies	OneAPI Profile Compliance	Comments
Currency	X	
MaximumEndUserIdentifier		
SplitChargingAvailable		
ReservationDuration		

Table 12: PXPROF Payment policies

Appendix A. Change History

(Informative)

A.1 Approved Version History

Reference	Date	Description
OMA-TS-PXPROF-V1_0	19 Oct 2010	Status changed to Approved by TP: OMA-TP-2010-0430-INP_PXPROF_V1_0_for_Final_Approval