



OneAPI Profile of ParlayREST Web Services

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Contents

1. SCOPE.....	4
2. REFERENCES	5
2.1 NORMATIVE REFERENCES.....	5
2.2 INFORMATIVE REFERENCES.....	5
3. TERMINOLOGY AND CONVENTIONS.....	6
3.1 CONVENTIONS.....	6
3.2 DEFINITIONS.....	6
3.3 ABBREVIATIONS.....	6
4. INTRODUCTION	7
4.1 VERSION 1.0	7
5. ONEAPI PROFILE OF PARLAYREST (INFORMATIVE).....	8
5.1 SMS PROFILE	8
5.2 MMS PROFILE.....	9
5.3 TERMINAL LOCATION.....	10
5.4 PAYMENT.....	11
APPENDIX A. CHANGE HISTORY (INFORMATIVE).....	12
A.1 APPROVED VERSION HISTORY	12
A.2 DRAFT/CANDIDATE VERSION 1.0 HISTORY	12
APPENDIX B. STATIC CONFORMANCE REQUIREMENTS (NORMATIVE).....	13
B.1 SCR FOR ONEAPI.SMS SERVER	13
B.2 SCR FOR ONEAPI.MMS SERVER.....	15
B.3 SCR FOR ONEAPI.TERMINALLOCATION SERVER.....	16
B.4 SCR FOR ONEAPI.PAYMENT SERVER.....	17

1. Scope

This specification provides the OneAPI profile of the RESTful bindings of Parlay X Web Services [REST_ERP].

The OneAPI profile of Parlay REST specifies a subset of the existing RESTful bindings of Parlay X SOAP Web Service. 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 and ParlayREST 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

- [RFC2119] “Key words for use in RFCs to Indicate Requirement Levels”, S. Bradner, March 1997, URL:<http://www.ietf.org/rfc/rfc2119.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/>
- [REST_ERP] “RESTful bindings for Parlay X Web Services”, Version 1.0, Open Mobile Alliance™, OMA-ERP-ParlayREST-V1_0, URL: <http://www.openmobilealliance.org/>
- [REST_TS_Location] “RESTful bindings for Parlay X Web Services – Terminal Location”, Version 1.0, Open Mobile Alliance™, OMA-TS-ParlayREST_TerminalLocation-V1_0, URL: <http://www.openmobilealliance.org/>
- [REST_TS_MMS] “RESTful bindings for Parlay X Web Services – Multimedia Messaging”, Version 1.0, Open Mobile Alliance™, OMA-TS-ParlayREST_MultiMediaMessaging-V1_0, URL: <http://www.openmobilealliance.org/>
- [REST_TS_Payment] “RESTful bindings for Parlay X Web Services – Payment”, Version 1.0, Open Mobile Alliance™, OMA-TS-ParlayREST_Payment-V1_0, URL: <http://www.openmobilealliance.org/>
- [REST_TS_SMS] “RESTful bindings for Parlay X Web Services – Short Messaging”, Version 1.0, Open Mobile Alliance™, OMA-TS-ParlayREST_ShortMessaging-V1_0, 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

(none in this revision)

3.3 Abbreviations

GSMA	GSM Association
HTTP	Hypertext Transfer Protocol
MMS	Multimedia Messaging Service
OMA	Open Mobile Alliance
OneAPI	Open network enabler API
PX	Parlay X
REST	REpresentational State Transfer
SMS	Short Message Service

4. Introduction

The OneAPI profile of ParlayREST defines a subset of the resources and HTTP operations in ParlayREST that must be supported by any entity conforming to the profile, plus the corresponding Parlay X interfaces and methods where appropriate. For example, for the SMS enabler the profile mandates support for resources and HTTP operations corresponding to 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.

4.1 Version 1.0

The first version of the profile contains tables for SMS, MMS, Terminal location and Payment as specified in the following chapter.

5. OneAPI Profile of ParlayREST (Informative)

5.1 SMS profile

The OneAPI profile of ParlayREST SMS defines a subset of the HTTP operations in [REST_TS_SMS] as listed below. The section numbers in the column “ParlayREST Operations” refer to sections in [REST_TS_SMS]. Further, the corresponding Parlay X interfaces and methods are given.

Parlay X Interfaces	Parlay X Methods	ParlayREST Operations	Comments
Short Messaging			
SendSMS	SendSms	5.10.5 C.1	
	GetSmsDeliveryStatus	5.12.3	
SmsNotification	NotifySmsReception	5.9.5	
	NotifySmsDeliveryReceipt	5.15.5	
ReceiveSms	GetReceivedSms	5.4.3 5.6.6	
SmsNotificationManager	StartSmsNotification	5.7.5 C.3	
	StopSmsNotification	5.8.6	
	StartDeliveryReceiptNotification	5.13.5 C.2	
	StopDeliveryReceiptNotification	5.14.6	

5.2 MMS profile

The OneAPI profile of ParlayREST MMS defines a subset of the HTTP operations in [REST_TS_MMS] as listed below. The section numbers in the column “ParlayREST Operations” refer to sections in [REST_TS_MMS]. Further, the corresponding Parlay X interfaces and methods are given.

Parlay X Interfaces	Parlay X Methods	ParlayREST Operations	Comments
Multimedia Messaging			
SendMessage	SendMessage	5.12.5 C.1	
	GetMessageDeliveryStatus	5.14.3	
ReceiveMessage	GetReceivedMessages	5.4.3 5.7.6	
	GetMessageURIs	5.7.3	
MessageNotification	NotifyMessageReception	5.11.5	
	NotifyMessageDeliveryReceipt	5.17.5	
MessageNotificationManager	StartMessageNotification	5.9.5 C.3	
	StopMessageNotification	5.10.6	
	StartDeliveryReceiptNotification	5.15.5 C.2	
	StopDeliveryReceiptNotification	5.16.6	

5.3 Terminal Location

The OneAPI profile of ParlayREST Terminal Location defines a subset of the HTTP operations in [REST_TS_Location] as listed below. The section numbers in the column “ParlayREST Operations” refer to sections in [REST_TS_Location]. Further, the corresponding Parlay X interfaces and methods are given.

Parlay X Interfaces	Parlay X Methods	ParlayREST Operations	Comments
Terminal Location			
TerminalLocation	GetLocation	5.4.3	
	GetLocationForGroup	5.4.3	

5.4 Payment

The OneAPI profile of ParlayX Payment defines a subset of the HTTP operations in [REST_TS_Payment] as listed below. The section numbers in the column “ParlayREST Operations” refer to sections in [REST_TS_Payment]. Further, the corresponding Parlay X interfaces and methods are given.

Parlay X Interfaces	Parlay X Methods	ParlayREST Operations	Comments
Payment			
AmountCharging	ChargeAmount	5.5.5 C.1	
	RefundAmount	5.5.5 C.2	
ReserveAmountCharging	ReserveAmount	5.15.5 C.3	
	ReserveAdditionalAmount	5.16.5 C.4	
	ChargeReservation	5.16.5 C.5	
	ReleaseReservation	5.16.5 C.6	

Appendix A. Change History

(Informative)

A.1 Approved Version History

Reference	Date	Description
n/a	n/a	No prior version –or- No previous version within OMA

A.2 Draft/Candidate Version 1.0 History

Document Identifier	Date	Sections	Description
Draft Versions OMA-TS-ParlayREST_OneAPIProfile-V1_0	18 Jan 2010	All	Initial version created from: OMA-ARC-REST-2010-0018- INP_OneAPI_Profile_of_ParlayREST_TS
	23 Feb 2010	5.1, 5.2	CR OMA-ARC-REST-2010-0078 implemented
	11 Mar 2010	Many	Editorial changes after walk-through. Tables reformatted to be consistent. References to all TSs cross-checked and updated.
	23 Mar 2010	5.1	Editorial: Removed one comment regarding C.3 in TS ShortMessaging.
	28 Mar 2010	5.1	CR OMA-ARC-REST-2010-0147- CR_PX_GetSmsDeliveryStatus_OneAPI implemented
Candidate Version OMA-TS-ParlayREST_OneAPIProfile-V1_0	27 Apr 2010	All	Status changed to Candidate by TP: OMA-TP-2010-0186- INP_ParlayREST_V1_0_ERP_for_Candidate_Approval
Draft Versions: OMA-TS-ParlayREST_OneAPIProfile-V1_0	12 Jul 2010	5.4	Implemented agreed change: OMA-ARC-REST-2010-0338- CR_Correction_of_references_in_1APIProf
	13 Jul 2010	5.1	Implemented agreed change: OMA-ARC-REST-2010-0317- CR_TS_OneAPI_alignment_with_CR_316
	19 Jul 2010	5.2	Implemented agreed CR: OMA-ARC-REST-2010-0360- CR_Apply_changes_from_359_to_TS_OneAPI
Candidate Version OMA-TS-ParlayREST_OneAPIProfile-V1_0	24 Aug 2010	All	Status changed to Candidate by TP: OMA-TP-2010-0359- INP_ParlayREST_V1_0_ERP_for_Candidate_reapproval
Draft Version OMA-TS-ParlayREST_OneAPIProfile-V1_0	24 Sep 2010	1, 2.1, 4, 5 App B	Implemented agreed CR: OMA-ARC-REST-2010-0486R01-CR_SCRs_for_OneAPI_V1
Candidate Version OMA-TS-ParlayREST_OneAPIProfile-V1_0	23 Nov 2010	All	Status changed to Candidate by TP: OMA-TP-2010-0463R01- INP_ParlayREST_V1_0_ERP_for_Candidate_reapproval

Appendix B. Static Conformance Requirements (Normative)

The notation used in this appendix is specified in [SCRRULES].

B.1 SCR for OneAPI.SMS Server

Support for the OneAPI Profile of the SMS REST Enabler implies supporting all mandatory SCRs as defined in the SCR tables of [REST_TS_SMS].

Item	Function	Reference	Requirement
ONEAPI-SMS-S-001-O	Support for the SMS REST Enabler	[REST_TS_SMS] Appendix B	PARLAYREST-SMS-SUPPORT-S-001-M AND PARLAYREST-SMS-SUPPORT-S-002-M AND PARLAYREST-SMS-SUPPORT-S-003-M AND PARLAYREST-SMS-INB-OFF-S-001-M AND PARLAYREST-SMS-INB-OFF-S-002-M AND PARLAYREST-SMS-IND-INB-S-001-M AND PARLAYREST-SMS-IND-INB-S-003-M AND PARLAYREST-SMS-INB-ONL-SUBSCR-S-001-M AND PARLAYREST-SMS-INB-ONL-SUBSCR-S-003-M AND PARLAYREST-SMS-INB-INDON-SUBSCR-S-001-M AND PARLAYREST-SMS-INB-INDON-SUBSCR-S-003-M AND PARLAYREST-SMS-INB-NOTIF-S-001-M

Item	Function	Reference	Requirement
			AND PARLAYREST-SMS-INB-NOTIF-S-002-M AND PARLAYREST-SMS-OUTB-S-001-M AND PARLAYREST-SMS-OUTB-S-003-M AND PARLAYREST-SMS-OUTB-DELSTAT-S-001-M AND PARLAYREST-SMS-OUTB-DELSTAT-S-002-M AND PARLAYREST-SMS-OUTB-SUBSCR-S-001-M AND PARLAYREST-SMS-OUTB-SUBSCR-S-003-M AND PARLAYREST-SMS-IND-OUTB-IND-SUBSCR-S-001-M AND PARLAYREST-SMS-IND-OUTB-IND-SUBSCR-S-003-M AND PARLAYREST-SMS-OUTB-DELSTAT-NOTIF-S-001-M AND PARLAYREST-SMS-OUTB-DELSTAT-NOTIF-S-002-M

B.2 SCR for OneAPI.MMS Server

Support for the OneAPI Profile of the MMS REST Enabler implies supporting all mandatory SCRs as defined in the SCR tables of [REST_TS_MMS].

Item	Function	Reference	Requirement
ONEAPI-MMS-S-001-O	Support for the MMS REST Enabler	[REST_TS_MMS] Appendix B	PARLAYREST-MMS-SUPPORT-S-001-M AND PARLAYREST-MMS-SUPPORT-S-002-M AND PARLAYREST-MMS-SUPPORT-S-003-M AND PARLAYREST-MMS-INB-OFF-S-001-M AND PARLAYREST-MMS-INB-OFF-S-002-M AND PARLAYREST-MMS-IND-INB-S-001-M AND PARLAYREST-MMS-IND-INB-S-003-M AND PARLAYREST-MMS-INB-ONL-SUBSCR-S-001-M AND PARLAYREST-MMS-INB-ONL-SUBSCR-S-003-M AND PARLAYREST-MMS-INB-INDON-SUBSCR-S-001-M AND PARLAYREST-MMS-INB-INDON- SUBSCR-S-003-M AND PARLAYREST-MMS-INB-NOTIF-S-001-M AND PARLAYREST-MMS-INB-NOTIF-S-002-M

Item	Function	Reference	Requirement
			AND PARLAYREST-MMS-OUTB-S-001-M AND PARLAYREST-MMS-OUTB-S-003-M AND PARLAYREST-MMS-OUTB-DELSTAT-S-001-M AND PARLAYREST-MMS-OUTB-DELSTAT-S-002-M AND PARLAYREST-MMS-OUTB-SUBSCR-S-001-M AND PARLAYREST-MMS-OUTB-SUBSCR-S-003-M AND PARLAYREST-MMS-IND-OUTB-IND-SUBSCR-S-001-M AND PARLAYREST-MMS-IND-OUTB-IND-SUBSCR-S-003-M AND PARLAYREST-MMS-OUTB-DELSTAT-NOTIF-S-001-M AND PARLAYREST-MMS-OUTB-DELSTAT-NOTIF-S-002-M

B.3 SCR for OneAPI.TerminalLocation Server

Support for the OneAPI Profile of the TerminalLocation REST Enabler implies supporting all mandatory SCRs as defined in the SCR tables of [REST_TS_Location].

Item	Function	Reference	Requirement
ONEAPI-LOC-S-001-O	Support for the TerminalLocation REST Enabler	[REST_TS_Location] Appendix B	PARLAYREST-LOC-SUPPORT-S-001-M AND

Item	Function	Reference	Requirement
			PARLAYREST-LOC-SUPPORT-S-002-M AND PARLAYREST-LOC-SUPPORT-S-003-M AND PARLAYREST-LOC-LOC-S-001-M AND PARLAYREST-LOC-LOC-S-002-M AND PARLAYREST-LOC-LOC-S-003-M

B.4 SCR for OneAPI.Payment Server

Support for the OneAPI Profile of the Payment REST Enabler implies supporting all mandatory SCRs as defined in the SCR tables of [REST_TS_Payment].

Item	Function	Reference	Requirement
ONEAPI-PAY-S-001-O	Support for the Payment REST Enabler	[REST_TS_Payment] Appendix B	PARLAYREST-PAY-SUPPORT-S-001-M AND PARLAYREST-PAY-SUPPORT-S-002-M AND PARLAYREST-PAY-SUPPORT-S-003-M AND PARLAYREST-PAY-AMNT-TRANS-S-001-M AND PARLAYREST-PAY-AMNT-TRANS-S-003-M AND PARLAYREST-PAY-AMNT-TRANS-S-005-M AND PARLAYREST-PAY-AMNT-RES-TRANS-S-001-M AND

Item	Function	Reference	Requirement
			PARLAYREST-PAY-AMNT-RES-TRANS-S-003-M AND PARLAYREST-PAY-IND-AMNT-RES-TRANS-S-001-M AND PARLAYREST-PAY-IND-AMNT-RES-TRANS-S-003-M