



OneAPI Profile of RESTful Network APIs

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Open Mobile Alliance
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1. Scope

This specification provides the OneAPI profile of RESTful Network APIs.

The OneAPI profile of RESTful Network APIs specifies a subset of the existing OMA RESTful Network APIs. This specification contains tables with information on what interfaces are mandated in the profile that **MUST** be implemented in order to claim conformance 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 [PSA] and OMA RESTful Network 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

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- [REST_NetAPI_CallNotif] “RESTful Network API for Call Notification”, Open Mobile Alliance™, OMA-TS-REST_NetAPI_CallNotification-V1_0, [URL: http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
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- [REST_NetAPI_Location] “RESTful Network API for Terminal Location”, Version 1.0, Open Mobile Alliance™, OMA-TS-REST_NetAPI_TerminalLocation-V1_0, [URL: http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
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- [REST_NetAPI_Status] “RESTful Network API for Terminal Status”, Open Mobile Alliance™, OMA-TS-REST_NetAPI_TerminalStatus-V1_0, [URL: http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [ParlayREST_OneAPI] “OneAPI Profile of ParlayREST Web Services”, Open Mobile Alliance™, OMA-TS-ParlayREST_OneAPI-V2_0, [URL: http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [PSA] “OMA Parlay Service Access V1.0”, Open Mobile Alliance™, OMA-RRP-PSA-V1_0, [URL: http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [RFC2119] “Key words for use in RFCs to Indicate Requirement Levels”, S. Bradner, March 1997, [URL: http://www.ietf.org/rfc/rfc2119.txt](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/](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/](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

For the purpose of this document, all definitions from the OMA Dictionary [OMADICT] apply.

3.3 Abbreviations

API	Application Programming Interface
GSMA	GSM Association
HTTP	Hypertext Transfer Protocol
OMA	Open Mobile Alliance
OneAPI	Open network enabler API
REST	REpresentational State Transfer
SCR	Static Conformance Requirements
SMS	Short Message Service
URI	Uniform Resource Identifier

4. Introduction

The OneAPI profile of RESTful Network APIs defines a subset of the resources and HTTP methods in in these APIs that must be supported by any entity conforming to the profile, plus the corresponding Parlay X [PSA] interfaces and operations where appropriate. For example, for the Short Messaging API the profile mandates support for resources and HTTP methods 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 3.0

The OneAPI Profile of RESTful Network APIs V3.0 is a republication of the OneAPI Profile of ParlayREST V2.0 [ParlayREST_OneAPI] as part of the suite of OMA RESTful Network APIs. Mainly structural changes to fit that suite, but also a few functional changes have been applied.

Version 3.0 of the OneAPI Profile of RESTful Network APIs defines subsets of the following APIs:

- RESTful Network API for Short Messaging V 1.0
- RESTful Network API for Messaging V 1.0
- RESTful Network API for Terminal Location V 1.0
- RESTful Network API for Payment V 1.0
- RESTful Network API for Device Capabilities V 1.0
- RESTful Network API for Terminal Status V 1.0
- RESTful Network API for Third Party Call V 1.0, Call Notification V 1.0 and Audio Call V 1.0 (jointly referred to as Call Control APIs)

as specified in the following chapter.

The RESTful Network APIs for Messaging and Payment have undergone changes which make them different in details from their ParlayREST V2.0 counterparts. Further details can be found in the actual specifications.

5. OneAPI Profile of RESTful Network APIs

In this profile, all JSON instances SHALL be generated according to the *Structure-aware JSON generation* approach as defined in [REST_NetAPI_Common].

5.1 Short Messaging

The OneAPI profile of the RESTful Network API for Short Messaging defines a subset of the HTTP resources/methods in [REST_NetAPI_SMS] as listed below. The section numbers in the column “REST Methods” refer to sections in [REST_NetAPI_SMS]. Further, the corresponding Parlay X [PSA] interfaces and operations are given.

Parlay X Interfaces	Parlay X Operations	REST Methods	Comments
Short Messaging			
SendSms	SendSms	6.7.5 C.1	
	GetSmsDeliveryStatus	6.9.3	
SmsNotification	NotifySmsReception	6.6.5	
	NotifySmsDeliveryReceipt	6.12.5	
ReceiveSms	GetReceivedSms	6.1.3 6.3.6	
SmsNotificationManager	StartSmsNotification	6.4.5 C.3	
	StopSmsNotification	6.5.6	
	StartDeliveryReceiptNotification	6.10.5 C.2	
	StopDeliveryReceiptNotification	6.11.6	

5.2 Messaging

The OneAPI profile of the RESTful Network API for Messaging defines a subset of the HTTP resources/methods in [REST_NetAPI_Msg] as listed below. The section numbers in the column “REST Methods” refer to sections in [REST_NetAPI_Msg]. Further, the corresponding Parlay X [PSA] interfaces and operations are given.

Parlay X Interfaces	Parlay X Operations	REST Methods	Comments
Messaging			
SendMessage	SendMessage	6.9.5 C.1	

	GetMessageDeliveryStatus	6.11.3	
ReceiveMessage	GetReceivedMessages	6.1.3 6.4.6	
	GetMessageURIs	6.4.3	
MessageNotification	NotifyMessageReception	6.8.5	
	NotifyMessageDeliveryReceipt	6.14.5	
MessageNotificationManager	StartMessageNotification	6.6.5 C.3	
	StopMessageNotification	6.7.6	
	StartDeliveryReceiptNotification	6.12.5 C.2	
	StopDeliveryReceiptNotification	6.13.6	

5.3 Terminal Location

The OneAPI Profile of the RESTful Network API for Terminal Location defines a subset of the HTTP resources/methods in [REST_NetAPI_Location] as listed below. The section numbers in the column “REST Methods” refer to sections in [REST_NetAPI_Location]. Further, the corresponding Parlay X [PSA] interfaces and operations are given.

ParlayX Interfaces	Parlay X Operations	REST Methods	Comments
Terminal Location			
TerminalLocation	GetLocation	6.1.3	
	GetLocationForGroup	6.1.3	

5.4 Payment

The OneAPI Profile of the RESTful Network API for Payment defines a subset of the HTTP operations in [REST_NetAPI_Payment] as listed below. The section numbers in the column “REST Methods” refer to sections in [REST_NetAPI_Payment]. Further, the corresponding Parlay X [PSA] interfaces and operations are given.

Parlay X Interfaces	Parlay X Operations	REST Methods	Comments
Payment			
AmountCharging	ChargeAmount	6.2.5 C.1	
	RefundAmount	6.2.5 C.2	
ReserveAmountCharging	ReserveAmount	6.12.5 C.3	
	ReserveAdditionalAmount	6.13.5 C.4	

	ChargeReservation	6.13.5 C.5	
	ReleaseReservation	6.13.5 C.6	

5.5 Device Capabilities

The OneAPI Profile of the RESTful Network API for Device Capabilities defines a subset of the HTTP resources/methods in [REST_NetAPI_DeviceCaps] as listed below. The section numbers in the column “REST Methods” refer to sections in [REST_NetAPI_DeviceCaps]. Further, the corresponding Parlay X [PSA] interfaces and operations are given.

Parlay X Interfaces	Parlay X Operations	REST Methods	Comments
Device Capabilities and Configuration			
Device Capabilities	GetCapabilities	6.1.3	

5.6 Terminal Status

The OneAPI Profile of the RESTful Network API for Terminal Status defines a subset of the HTTP resources/methods in [REST_NetAPI_Status] as listed below. The section numbers in the column “REST Methods” refer to sections in [REST_NetAPI_Status]. Further, the corresponding Parlay X [PSA] interfaces and operations are given.

Parlay X Interfaces	Parlay X Operations	REST Methods	Comments
Terminal Status			
Terminal Status	GetStatus	6.2.3	Note that the REST operation returns more information than the Parlay X counterpart
	GetStatusForGroup	6.2.3	Note that the REST operation returns more information than the Parlay X counterpart

5.7 Call Control

The OneAPI Call Control profile of the RESTful Network APIs defines a subset of the HTTP operations in [REST_NetAPI_3PC],[REST_NetAPI_CallNotif] and [REST_NetAPI_AudioCall] as listed below. The section numbers in the column “REST Methods” refer to sections in the indicated RESTful Network API specifications. Further, the corresponding Parlay X [PSA] interfaces and methods are given, where applicable.

Parlay X Interfaces	Parlay X Operations	REST Methods	Comments
Third Party Call [REST_NetAPI_3PC]			
ThirdPartyCall	MakeCallSession	6.1.5 C.1	Note that the REST method takes more parameters than the Parlay X counterpart, to support announcements and to

			subscribe to notifications. Those additional parameters are included in the OneAPI profile.
	GetCallSessionInformation	6.2.3	
	EndCallSession	6.2.6	
	AddCallParticipant	6.4.5 C.3	
	GetCallParticipantInformation	6.5.3	
	DeleteCallParticipant	6.5.6	
Call Notification [REST_NetAPI_CallNotif]			
CallNotification	NotifyCallEvent	6.10.5	
	NotifyPlayAndCollectEvent	6.11.5	
CallNotificationManager	StartCallNotification	6.2.5 C.1	
	StopCallNotification	6.3.6	
	(none)	6.3.3	This REST method has no Parlay X counterpart. It allows retrieving an individual subscription to call event notifications.
	StartPlayAndCollectNotification	6.6.5 C.3	
	StopMediaInteractionNotification	6.7.6	
	(none)	6.7.3	This REST method has no Parlay X counterpart. It allows retrieving an individual subscription to Play-And-Collect media interaction notifications.
Audio Call [REST_NetAPI_AudioCall]			
PlayMedia	PlayAudioMessage	6.5.5 C.2	

	EndMessage	6.6.6	
	GetMessageStatus	6.7.3	
CaptureMedia	StartPlayAndCollectInteraction	6.15.5 C.5	
	StopMediaInteraction	6.16.6	
	(none)	6.16.3	This REST method has no Parlay X counterpart, but is only defined in the RESTful Network API. It allows reading individual play-and-collect interactions.

Appendix A. Change History

(Informative)

A.1 Approved Version History

Reference	Date	Description
OMA-TS-REST_NetAPI_OneAPIProfile-V3_0-20130924-A	24 Sep 2013	Status changed to Approved by TP TP Ref # OMA-TP-2013-0273- INP_REST_NetAPI_OneAPIProfile_V3_0_ERP_for_Final_Approval

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 RESTful Network API for Short Messaging implies supporting all mandatory SCRs as defined in the SCR tables of [REST_NetAPI_SMS].

Item	Function	Reference	Requirement
ONEAPI-SMS-S-001-O	Support for the RESTful SMS API	[REST_NetAPI_SMS] Appendix B	REST-SMS-SUPPORT-S-001-M AND REST-SMS-SUPPORT-S-002-M AND REST-SMS-SUPPORT-S-003-M AND REST-SMS-INB-OFF-S-001-M AND REST-SMS-INB-OFF-S-002-M AND REST-SMS-IND-INB-S-001-M AND REST-SMS-IND-INB-S-003-M AND REST-SMS-INB-ONL-SUBSCR-S-001-M AND REST-SMS-INB-ONL-SUBSCR-S-003-M AND REST-SMS-INB-INDON-SUBSCR-S-001-M AND REST-SMS-INB-INDON-SUBSCR-S-003-M AND REST-SMS-INB-NOTIF-S-001-M AND REST-SMS-INB-NOTIF-S-002-M AND REST-SMS-OUTB-S-001-M AND REST-SMS-OUTB-S-003-M AND REST-SMS-OUTB-DELSTAT-S-001-M AND REST-SMS-OUTB-DELSTAT-S-002-M AND REST-SMS-OUTB-SUBSCR-S-001-M AND REST-SMS-OUTB-SUBSCR-S-003-M AND REST-SMS-IND-OUTB-IND-SUBSCR-S-001-M AND

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

B.2 SCR for OneAPI.Messaging Server

Support for the OneAPI Profile of the RESTful Network API for Messaging implies supporting all mandatory SCRs as defined in the SCR tables of [REST_NetAPI_Msg].

Item	Function	Reference	Requirement
ONEAPI-MSG-S-001-O	Support for the RESTful Messaging API	[REST_NetAPI_Msg] Appendix B	REST-MSG-SUPPORT-S-001-M AND REST-MSG-SUPPORT-S-002-M AND REST-MSG-SUPPORT-S-003-M AND REST-MSG-INB-OFF-S-001-M AND REST-MSG-INB-OFF-S-002-M AND REST-MSG-IND-INB-S-001-M AND REST-MSG-IND-INB-S-003-M AND REST-MSG-INB-ONL-SUBSCR-S-001-M AND REST-MSG-INB-ONL-SUBSCR-S-003-M AND REST-MSG-INB-INDON-SUBSCR-S-001-M AND REST-MSG-INB-INDON- SUBSCR-S-003-M AND REST-MSG-INB-NOTIF-S-001-M AND REST-MSG-INB-NOTIF-S-002-M AND REST-MSG-OUTB-S-001-M AND REST-MSG-OUTB-S-003-M AND REST-MSG-OUTB-DELSTAT-S-001-M AND REST-MSG-OUTB-DELSTAT-S-002-M AND REST-MSG-OUTB-SUBSCR-S-001-M AND REST-MSG-OUTB-SUBSCR-S-003-M

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

B.3 SCR for OneAPI.TerminalLocation Server

Support for the OneAPI Profile of RESTful Network API for TerminalLocation implies supporting all mandatory SCRs as defined in the SCR tables of [REST_NetAPI_Location].

Item	Function	Reference	Requirement
ONEAPI-LOC-S-001-O	Support for the RESTful TerminalLocation API	[REST_NetAPI_Location] Appendix B	REST-LOC-SUPPORT-S-001-M AND REST-LOC-SUPPORT-S-002-M AND REST-LOC-SUPPORT-S-003-M AND REST-LOC-LOC-S-001-M AND REST-LOC-LOC-S-002-M AND REST-LOC-LOC-S-003-M

B.4 SCR for OneAPI.Payment Server

Support for the OneAPI Profile of the RESTful Network API for Payment implies supporting all mandatory SCRs as defined in the SCR tables of [REST_NetAPI_Payment].

Item	Function	Reference	Requirement
ONEAPI-PAY-S-001-O	Support for the RESTful Payment API	[REST_NetAPI_Payment] Appendix B	REST-PAY-SUPPORT-S-001-M AND REST-PAY-SUPPORT-S-002-M AND REST-PAY-SUPPORT-S-003-M AND REST-PAY-AMNT-TRANS-S-001-M AND REST-PAY-AMNT-TRANS-S-003-M AND REST-PAY-AMNT-RES-TRANS-S-001-M AND REST-PAY-AMNT-RES-TRANS-S-003-M AND REST-PAY-IND-AMNT-RES-TRANS-S-001-M AND

Item	Function	Reference	Requirement
			REST-PAY-IND-AMNT-RES-TRANS-S-003-M

B.5 SCR for OneAPI.TerminalStatus Server

Support for the OneAPI Profile of the RESTful Network API for TerminalStatus implies supporting all mandatory SCRs as defined in the SCR tables of [REST_NetAPI_Status].

Item	Function	Reference	Requirement
ONEAPI-STA-S-001-O	Support for the RESTful TerminalStatus API	[REST_NetAPI_Status] Appendix B	REST-STA-SUPPORT-S-001-M AND REST-STA-SUPPORT-S-002-M AND REST-STA-SUPPORT-S-003-M AND REST-STA-ACC-S-001-M AND REST-STA-ACC-S-002-M

B.6 SCR for OneAPI.DeviceCapabilities Server

Support for the OneAPI Profile of the RESTful Network API for DeviceCapabilities implies supporting a subset of the mandatory SCRs as defined in the SCR tables of [REST_NetAPI_DeviceCaps].

Item	Function	Reference	Requirement
ONEAPI-DEV-S-001-O	Support for the RESTful DeviceCapabilities API	[REST_NetAPI_DeviceCaps] Appendix B	REST-DEVCAP-SUPPORT-S-001-M AND REST-DEVCAP-SUPPORT-S-002-M AND REST-DEVCAP-SUPPORT-S-003-M AND REST-DEVCAP-ACCCAP-S-001-M AND REST-DEVCAP-ACCCAP-S-002-M

B.7 SCR for OneAPI.CallControl Server

Support for the OneAPI Profile of the RESTful Network APIs for Call Control implies supporting a subset of the mandatory SCRs defined in the SCR tables of [REST_NetAPI_3PC], [REST_NetAPI_CallNotif] and [REST_NetAPI_AudioCall], in line with section 5.7.

Item	Function	Reference	Requirement
ONEAPI-CALL-S-001-O	Support for the RESTful Call Control APIs	5.7	ONEAPI-CALL-3PC-S-001-O AND ONEAPI-CALL-NOTIF-S-001-O AND ONEAPI-AUDIOCALL-S-001-O
ONEAPI-CALL-3PC-S-001-O	Support for the OneAPI subset of the RESTful Third Party Call API	REST_NetAPI_3PC] Appendix B	REST-3PC-SUPPORT-S-001-M AND REST-3PC-SUPPORT-S-002-M AND REST-3PC-SUPPORT-S-003-M AND

Item	Function	Reference	Requirement
			REST-3PC-SESS-S-001-M AND REST-3PC-SESS-S-003-M AND REST-3PC-SESS-S-005-M AND REST-3PC-INDSESS-S-001-M AND REST-3PC-INDSESS-S-002-M AND REST-3PC-INDSESS-S-003-M AND REST-3PC-INDSESS-PART-S-001-M AND REST-3PC-INDSESS-PART-S-003-M AND REST-3PC-INDSESS-INDPART-S-001-M AND REST-3PC-INDSESS-INDPART-S-002-M AND REST-3PC-INDSESS-INDPART-S-003-M
ONEAPI-CALL-NOTIF-S-001-O	Support for the OneAPI subset of the RESTful Call Notification API	REST_NetAPI_Cal [Notif] Appendix B	REST-CN-SUPPORT-S-001-M AND REST-CN-SUPPORT-S-002-M AND REST-CN-SUPPORT-S-003-M AND REST-CN-NOTIF-CALLEVENT-S-001-M AND REST-CN-NOTIF-CALLEVENT-S-002-M AND REST-CN-NOTIF-MEDINT-S-001-M AND REST-CN-NOTIF-MEDINT-S-002-M AND REST-CN-SUBSCR-CALLEVENT-S-001-M AND REST-CN-SUBSCR-CALLEVENT-S-003-M AND REST-CN-SUBSCR-INDCALLEVENT-S-001-M AND REST-CN-SUBSCR-INDCALLEVENT-S-002-M AND REST-CN-SUBSCR-INDCALLEVENT-S-003-M AND REST-CN-SUBSCR-PAC-S-001-M AND REST-CN-SUBSCR-PAC-S-003-M

Item	Function	Reference	Requirement
			AND REST-CN-SUBSCR-INDPAC-S-001-M AND REST-CN-SUBSCR-INDPAC-S-002-M AND REST-CN-SUBSCR-INDPAC-S-003-M
ONEAPI-AUDIOCALL-S-001-O	Support for the OneAPI subset of the RESTful AudioCall API	REST_NetAPI_AudioCall] Appendix B	REST-AC-SUPPORT-S-001-M AND REST-AC-SUPPORT-S-002-M AND REST-AC-SUPPORT-S-003-M AND REST-AC-MSG-AUDIO-S-001-M AND REST-AC-MSG-AUDIO-S-003-M AND REST-AC-MSG-INDAUDIO-S-001-M AND REST-AC-MSG-INDAUDIO-S-003-M AND REST-AC-MSG-INDAUDIO-STAT-S-001-M AND REST-AC-MSG-INDAUDIO-STAT-S-002-M AND REST-AC-MEDINT-PAC-S-001-M AND REST-AC-MEDINT-PAC-S-003-M AND REST-AC-MEDINT-INDPAC-S-001-M AND REST-AC-MEDINT-INDPAC-S-002-M AND REST-AC-MEDINT-INDPAC-S-003-M