



# APIs for Rich Communications Requirements

## Candidate Version 1.0 – 08 May 2012

---

**Open Mobile Alliance**  
OMA-RD-REST\_NetAPI\_RCSPProfile-V1\_0-20120508-C

Use of this document is subject to all of the terms and conditions of the Use Agreement located at <http://www.openmobilealliance.org/UseAgreement.html>.

Unless this document is clearly designated as an approved specification, this document is a work in process, is not an approved Open Mobile Alliance™ specification, and is subject to revision or removal without notice.

You may use this document or any part of the document for internal or educational purposes only, provided you do not modify, edit or take out of context the information in this document in any manner. Information contained in this document may be used, at your sole risk, for any purposes. You may not use this document in any other manner without the prior written permission of the Open Mobile Alliance. The Open Mobile Alliance authorizes you to copy this document, provided that you retain all copyright and other proprietary notices contained in the original materials on any copies of the materials and that you comply strictly with these terms. This copyright permission does not constitute an endorsement of the products or services. The Open Mobile Alliance assumes no responsibility for errors or omissions in this document.

Each Open Mobile Alliance member has agreed to use reasonable endeavours to inform the Open Mobile Alliance in a timely manner of Essential IPR as it becomes aware that the Essential IPR is related to the prepared or published specification. However, the members do not have an obligation to conduct IPR searches. The declared Essential IPR is publicly available to members and non-members of the Open Mobile Alliance and may be found on the “OMA IPR Declarations” list at <http://www.openmobilealliance.org/ipr.html>. The Open Mobile Alliance has not conducted an independent IPR review of this document and the information contained herein, and makes no representations or warranties regarding third party IPR, including without limitation patents, copyrights or trade secret rights. This document may contain inventions for which you must obtain licenses from third parties before making, using or selling the inventions. Defined terms above are set forth in the schedule to the Open Mobile Alliance Application Form.

**NO REPRESENTATIONS OR WARRANTIES (WHETHER EXPRESS OR IMPLIED) ARE MADE BY THE OPEN MOBILE ALLIANCE OR ANY OPEN MOBILE ALLIANCE MEMBER OR ITS AFFILIATES REGARDING ANY OF THE IPR'S REPRESENTED ON THE “OMA IPR DECLARATIONS” LIST, INCLUDING, BUT NOT LIMITED TO THE ACCURACY, COMPLETENESS, VALIDITY OR RELEVANCE OF THE INFORMATION OR WHETHER OR NOT SUCH RIGHTS ARE ESSENTIAL OR NON-ESSENTIAL.**

**THE OPEN MOBILE ALLIANCE IS NOT LIABLE FOR AND HEREBY DISCLAIMS ANY DIRECT, INDIRECT, PUNITIVE, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE OF DOCUMENTS AND THE INFORMATION CONTAINED IN THE DOCUMENTS.**

© 2012 Open Mobile Alliance Ltd. All Rights Reserved.

Used with the permission of the Open Mobile Alliance Ltd. under the terms set forth above.

# Contents

1. SCOPE (INFORMATIVE) .....	5
2. REFERENCES .....	6
2.1 NORMATIVE REFERENCES .....	6
2.2 INFORMATIVE REFERENCES .....	6
3. TERMINOLOGY AND CONVENTIONS .....	7
3.1 CONVENTIONS .....	7
3.3 ABBREVIATIONS .....	7
4. INTRODUCTION .....	8
4.1 VERSION 1.0 .....	9
5. APIS FOR RICH COMMUNICATIONS RELEASE DESCRIPTION (INFORMATIVE).....	10
5.1 END-TO-END SERVICE DESCRIPTION .....	10
6. REQUIREMENTS (NORMATIVE).....	11
6.1 HIGH-LEVEL FUNCTIONAL REQUIREMENTS .....	11
6.1.1 Common notification channel.....	11
6.1.2 Messaging .....	12
6.1.3 Chat.....	12
6.1.4 Call.....	14
6.1.5 Presence .....	15
6.1.6 File Transfer.....	16
6.1.7 Image Share .....	16
6.1.8 Video Share.....	17
6.1.9 Network Address Book.....	18
6.1.10 Security .....	18
6.1.11 Charging Events.....	19
6.1.12 Administration and Configuration .....	19
6.1.13 Usability.....	19
6.1.14 Interoperability.....	19
6.1.15 Privacy .....	19
6.2 OVERALL SYSTEM REQUIREMENTS .....	19
APPENDIX A. CHANGE HISTORY (INFORMATIVE).....	20
A.1 APPROVED VERSION HISTORY .....	20
A.2 DRAFT/CANDIDATE VERSION 1.0 HISTORY .....	20

## Tables

Table 1: High-Level Functional Requirements - from GSMA RCS.....	11
Table 2: High-Level Functional Requirements .....	11
Table 3: Common Notification Channel Functional Requirements – from GSMA RCS.....	12
Table 4: Common Notification Channel Functional Requirements .....	12
Table 5: Messaging Functional Requirements – from GSMA RCS .....	12
Table 6: Chat Functional Requirements (originating side) – from GSMA RCS .....	13
Table 7: Chat Functional Requirements (terminating side) – from GSMA RCS .....	13
Table 8: Chat Functional Requirements (group chat) – from GSMA RCS .....	14

<b>Table 9: Chat Functional Requirements (media) – from GSMA RCS .....</b>	<b>14</b>
<b>Table 10: Call Functional Requirements (originating side) – from GSMA RCS.....</b>	<b>14</b>
<b>Table 11: Call Functional Requirements (originating and terminating side) – from GSMA RCS .....</b>	<b>15</b>
<b>Table 12: Presence Functional Requirements – from GSMA RCS.....</b>	<b>15</b>
<b>Table 13: File Transfer Functional Requirements (originating side) – from GSMA RCS.....</b>	<b>16</b>
<b>Table 14: File Transfer Functional Requirements (terminating side) – from GSMA RCS .....</b>	<b>16</b>
<b>Table 15: Image Share Functional Requirements (originating side) – from GSMA RCS .....</b>	<b>17</b>
<b>Table 16: Image Share Functional Requirements (terminating side) – from GSMA RCS .....</b>	<b>17</b>
<b>Table 17: Video Share Functional Requirements (originating side) – from GSMA RCS .....</b>	<b>17</b>
<b>Table 18: Video Share Functional Requirements (terminating side) – from GSMA RCS.....</b>	<b>18</b>
<b>Table 19: Network Address Book Functional Requirements – from GSMA RCS .....</b>	<b>18</b>
<b>Table 20: High-Level Functional Requirements – Authorization Items – from GSMA RCS.....</b>	<b>19</b>

# 1. Scope

**(Informative)**

This document defines the requirements for OMA RESTful Network APIs in order to expose RCS features to 3<sup>rd</sup> party developers, more specifically the web 2.0 community hence to create the functional APIs according to the GSMA RCS requirements for the UNI/Long Tail APIs.

## 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>
- [RCSREQ] “Rich Communication Suite - RCS API Detailed Requirements 1.1, 17 October 2011”, GSMA  
Association, 2011,  
URL: [http://www.gsmworld.com/documents/RCS\\_API\\_requirements\\_v1-1.pdf](http://www.gsmworld.com/documents/RCS_API_requirements_v1-1.pdf)

### 2.2 Informative References

- [OMADICT] “Dictionary for OMA Specifications”, Version x.y, Open Mobile Alliance™,  
OMA-ORG-Dictionary-Vx\_y, [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.

### 3.3 Abbreviations

<b>API</b>	Application Programming Interface
<b>OMA</b>	Open Mobile Alliance
<b>RCS</b>	Rich Communication Suite
<b>REST</b>	Representational State Transfer
<b>UNI</b>	User-to-Network Interface

## 4. Introduction

In order to fully leverage on the GSMA RCS benefits and to support today's demand for innovative service creation and lightweight UNI interfaces; a set of UNI/long tail APIs targeting the RCS feature set is needed.



**(Informative)**

## 4.1 Version 1.0

The RC APIs RD V1.0 captures the functional requirements scoping the set of APIs exposing the GSMA RCS features.

## **5. APIs for Rich Communications release description (Informative)**

The RC- APIs V1.0 addresses a crucial field of open service creation based on the rich data.

### **5.1 End-to-end Service Description**

The RC- APIs V1.0 addresses the end-to-end service described in [RCSREQ].

## 6. Requirements (Normative)

This section captures the requirements for the RC-APIs enabler. The main share of the requirements originates from the GSM Association's RCS API (Rich Communication Suite) requirements, which are accessible in document [RCSREQ].

The OMA RC-APIs enabler covers these requirements, but is intended to provide a more generic approach to Rich Communication APIs.

To model that, this document imports the applicable requirements from [RCSREQ], and defines additional requirements.

### 6.1 High-Level Functional Requirements

This section contains the High Level requirements for the RC-APIs enabler.

The following requirements from [RCSREQ] apply to this enabler:

Label	Description	Release
RCAPI-RCHLF-001	This requirement maps to the requirement UNI-HLF-001 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCHLF-002	This requirement maps to the requirement UNI-HLF-002 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCHLF-003	This requirement maps to the requirement UNI-HLF-003 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCHLF-004	This requirement maps to the requirement UNI-HLF-004 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCHLF-005	This requirement maps to the requirement UNI-HLF-005 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCHLF-006	This requirement maps to the requirement UNI-HLF-006 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCHLF-008	This requirement maps to the requirement UNI-HLF-008 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCHLF-009	This requirement maps to the requirement UNI-HLF-009 from GSMA RCS document [RCSREQ].	RC-APIs 1.0

**Table 1: High-Level Functional Requirements - from GSMA RCS**

In addition, the following requirements apply:

Label	Description	Release
RCAPI-HLF-001	The RC APIs SHOULD reuse existing OMA RESTful Network APIs when they provide similar functionality.	RC-APIs 1.0

Table 2: High-Level Functional Requirements

#### 6.1.1 Common notification channel

This section contains the requirements for common notification channel functionality of the RC-APIs enabler.

The following requirements from [RCSREQ] apply to this enabler:

Label	Description	Release
RCAPI-RCNTF-001	This requirement maps to the requirement UNI-NTF-001 from GSMA RCS document [RCSREQ].	RC-APIs 1.0

RCAPI-RCNTF-002	This requirement maps to the requirement UNI-NTF-002 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCNTF-003	This requirement maps to the requirement UNI-NTF-003 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCNTF-004	This requirement maps to the requirement UNI-NTF-004 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCNTF-005	This requirement maps to the requirement UNI-NTF-005 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCNTF-006	This requirement maps to the requirement UNI-NTF-006 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCNTF-007	This requirement maps to the requirement UNI-NTF-007 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCNTF-008	This requirement maps to the requirement UNI-NTF-008 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCNTF-009	This requirement maps to the requirement UNI-NTF-009 from GSMA RCS document [RCSREQ].	RC-APIs 1.0

**Table 3: Common Notification Channel Functional Requirements – from GSMA RCS**

In addition, the following requirements apply:

Label	Description	Release
RCAPI-NTF-001	The RC-APIs MAY support push technology as an alternative transport for delivering notifications through common notification channel.	RC-APIs 1.0

Table 4: Common Notification Channel Functional Requirements

## 6.1.2 Messaging

This section contains the requirements for the Messaging functionality of the RC-APIs enabler.

The following requirements from [RCSREQ] apply to this enabler:

Label	Description	Release
RCAPI-RC MSG-001	This requirement maps to the requirement UNI-MSG-001 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RC MSG-002	This requirement maps to the requirement UNI-MSG-002 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RC MSG-003	This requirement maps to the requirement UNI-MSG-003 from GSMA RCS document [RCSREQ].	RC-APIs 1.0

**Table 5: Messaging Functional Requirements – from GSMA RCS**

## 6.1.3 Chat

### 6.1.3.1 Originating side

This section contains the requirements for the originating side of a chat session of the RC-APIs enabler.

The following requirements from [RCSREQ] apply to this enabler:

Label	Description	Release
RCAPI-RCCHAT-001	This requirement maps to the requirement UNI-CHT-001 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCCHAT-002	This requirement maps to the requirement UNI-CHT-002 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCCHAT-003	This requirement maps to the requirement UNI-CHT-003 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCCHAT-004	This requirement maps to the requirement UNI-CHT-004 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCCHAT-005	This requirement maps to the requirement UNI-CHT-005 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCCHAT-006	This requirement maps to the requirement UNI-CHT-006 from GSMA RCS document [RCSREQ].	RC-APIs 1.0

**Table 6: Chat Functional Requirements (originating side) – from GSMA RCS**

### 6.1.3.2 Terminating side

This section contains the requirements for the terminating side of a chat session of the RC-APIs enabler.

The following requirements from [RCSREQ] apply to this enabler:

Label	Description	Release
RCAPI-RCCHAT-007	This requirement maps to the requirement UNI-CHT-007 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCCHAT-008	This requirement maps to the requirement UNI-CHT-008 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCCHAT-010	This requirement maps to the requirement UNI-CHT-010 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCCHAT-011	This requirement maps to the requirement UNI-CHT-011 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCCHAT-012	This requirement maps to the requirement UNI-CHT-012 from GSMA RCS document [RCSREQ].	RC-APIs 1.0

**Table 7: Chat Functional Requirements (terminating side) – from GSMA RCS**

### 6.1.3.3 Group Chat

This section contains the requirements for group chat of the RC-APIs enabler.

The following requirements from [RCSREQ] apply to this enabler:

Label	Description	Release
RCAPI-RCCHAT-013	This requirement maps to the requirement UNI-CHT-013 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCCHAT-014	This requirement maps to the requirement UNI-CHT-014 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCCHAT-015	This requirement maps to the requirement UNI-CHT-015 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCCHAT-016	This requirement maps to the requirement UNI-CHT-016 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCCHAT-017	This requirement maps to the requirement UNI-CHT-017 from GSMA RCS document [RCSREQ].	RC-APIs 1.0

**Table 8: Chat Functional Requirements (group chat) – from GSMA RCS****6.1.3.4 Media**

This section contains the requirements for media chat of the RC-APIs enabler.

The following requirements from [RCSREQ] apply to this enabler:

Label	Description	Release
RC-API-RCCHAT-018	This requirement maps to the requirement UNI-CHT-018 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-RCCHAT-019	This requirement maps to the requirement UNI-CHT-019 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-RCCHAT-020	This requirement maps to the requirement UNI-CHT-020 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-RCCHAT-021	This requirement maps to the requirement UNI-CHT-021 from GSMA RCS document [RCSREQ].	RC-APIs 1.0

**Table 9: Chat Functional Requirements (media) – from GSMA RCS****6.1.4 Call****6.1.4.1 Call Functionality available to originating side**

This section contains the requirements for the call session and call progress notifications on behalf of the originating side (“calling participant”, “A-Party”) functionality of the RC-APIs enabler.

The following requirements from [RCSREQ] apply to this enabler:

Label	Description	Release
RC-API-RCCALL-001	This requirement maps to the requirement UNI-CLL-001 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-RCCALL-002	This requirement maps to the requirement UNI-CLL-002 from GSMA RCS document [RCSREQ].	RC-APIs 1.0

**Table 10: Call Functional Requirements (originating side) – from GSMA RCS****6.1.4.2 Call Functionality available to originating side and terminating side**

This section contains the requirements for functionality of the RC-APIs enabler, to allow an application to receive call progress notifications and to terminate a call session on behalf of the call participants (“calling participant”, “A-Party” as well as “called participant”, “B-Party”). The term “user” below therefore subsumes both “A-party” as well as “B-party”

The following requirements from [RCSREQ] apply to this enabler:

Label	Description	Release
RC-API-RCCALL-003	This requirement maps to the requirement UNI-CLL-003 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-RCCALL-004	This requirement maps to the requirement UNI-CLL-004 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-RCCALL-005	This requirement maps to the requirement UNI-CLL-005 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-RCCALL-006	This requirement maps to the requirement UNI-CLL-006 from GSMA RCS document [RCSREQ].	RC-APIs 1.0

RC-API-007	This requirement maps to the requirement UNI-CLL-007 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-008	This requirement maps to the requirement UNI-CLL-008 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-009	This requirement maps to the requirement UNI-CLL-009 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-010	This requirement maps to the requirement UNI-CLL-010 from GSMA RCS document [RCSREQ].	RC-APIs 1.0

**Table 11: Call Functional Requirements (originating and terminating side) – from GSMA RCS**

### 6.1.4.3 Media

Out of scope

### 6.1.5 Presence

This section contains the requirements for the Presence functionality of the RC-APIs enabler.

The following requirements from [RCSREQ] apply to this enabler:

Label	Description	Release
RC-API-001	This requirement maps to the requirement UNI-PRS-001 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-002	This requirement maps to the requirement UNI-PRS-002 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-003	This requirement maps to the requirement UNI-PRS-003 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-004	This requirement maps to the requirement UNI-PRS-004 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-005	This requirement maps to the requirement UNI-PRS-005 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-006	This requirement maps to the requirement UNI-PRS-006 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-007	This requirement maps to the requirement UNI-PRS-007 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-008	This requirement maps to the requirement UNI-PRS-008 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-009	This requirement maps to the requirement UNI-PRS-009 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-010	This requirement maps to the requirement UNI-PRS-010 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-011	This requirement maps to the requirement UNI-PRS-011 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-012	This requirement maps to the requirement UNI-PRS-012 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-013	This requirement maps to the requirement UNI-PRS-013 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-014	This requirement maps to the requirement UNI-PRS-014 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-015	This requirement maps to the requirement UNI-PRS-015 from GSMA RCS document [RCSREQ].	RC-APIs 1.0

**Table 12: Presence Functional Requirements – from GSMA RCS**

## 6.1.6 File Transfer

This section contains the requirements for the File Transfer functionality of the RC-APIs enabler.

### 6.1.6.1 Originating side

The following requirements from [RCSREQ] apply to this enabler:

Label	Description	Release
RCAPI-RCFT-001	This requirement maps to the requirement UNI-FLT-001 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCFT-002	This requirement maps to the requirement UNI-FLT-002 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCFT-003	This requirement maps to the requirement UNI-FLT-003 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCFT-004	This requirement maps to the requirement UNI-FLT-004 from GSMA RCS document [RCSREQ].	RC-APIs 1.0

**Table 13: File Transfer Functional Requirements (originating side) – from GSMA RCS**

### 6.1.6.2 Terminating side

The following requirements from [RCSREQ] apply to this enabler:

Label	Description	Release
RCAPI-RCFT-005	This requirement maps to the requirement UNI-FLT-005 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCFT-006	This requirement maps to the requirement UNI-FLT-006 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCFT-007	This requirement maps to the requirement UNI-FLT-007 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCFT-008	This requirement maps to the requirement UNI-FLT-008 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCFT-009	This requirement maps to the requirement UNI-FLT-009 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCFT-010	This requirement maps to the requirement UNI-FLT-010 from GSMA RCS document [RCSREQ].	RC-APIs 1.0

**Table 14: File Transfer Functional Requirements (terminating side) – from GSMA RCS**

## 6.1.7 Image Share

This section contains the requirements for the Image Share functionality of the RC-APIs enabler.

### 6.1.7.1 Image Share functionality available to originating side

The following requirements from [RCSREQ] apply to this enabler:

Label	Description	Release
RCAPI-RCIS-001	This requirement maps to the requirement UNI-ISH-001 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCIS-002	This requirement maps to the requirement UNI-ISH-004 from GSMA RCS document [RCSREQ].	RC-APIs 1.0



RCAPI-RCIS-003	This requirement maps to the requirement UNI-ISH-005 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCIS-004	This requirement maps to the requirement UNI-ISH-006 from GSMA RCS document [RCSREQ].	RC-APIs 1.0

**Table 15: Image Share Functional Requirements (originating side) – from GSMA RCS**

### 6.1.7.2 Image Share functionality available to terminating side

The following requirements from [RCSREQ] apply to this enabler:

Label	Description	Release
RCAPI-RCIS-005	This requirement maps to the requirement UNI-ISH-007 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCIS-006	VOID	VOID
RCAPI-RCIS-007	This requirement maps to the requirement UNI-ISH-009 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCIS-008	This requirement maps to the requirement UNI-ISH-010 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCIS-009	This requirement maps to the requirement UNI-ISH-011 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCIS-010	This requirement maps to the requirement UNI-ISH-012 from GSMA RCS document [RCSREQ].	RC-APIs 1.0

**Table 16: Image Share Functional Requirements (terminating side) – from GSMA RCS**

## 6.1.8 Video Share

This section contains the requirements for the Video Share functionality of the RC-APIs enabler.

### 6.1.8.1 Video Share functionalities available to originating side

The following requirements from [RCSREQ] apply to this enabler:

Label	Description	Release
RCAPI-RCVS-001	This requirement maps to the requirement UNI-VSH-001 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCVS-001b	This requirement maps to the requirement UNI-VSH-001b from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCVS-002	VOID	VOID
RCAPI-RCVS-003	VOID	VOID
RCAPI-RCVS-004	This requirement maps to the requirement UNI-VSH-004 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCVS-005	This requirement maps to the requirement UNI-VSH-005 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RCAPI-RCVS-006	This requirement maps to the requirement UNI-VSH-006 from GSMA RCS document [RCSREQ].	RC-APIs 1.0

**Table 17: Video Share Functional Requirements (originating side) – from GSMA RCS**

### 6.1.8.2 Video Share functionalities available to terminating side

The following requirements from [RCSREQ] apply to this enabler:

Label	Description	Release
RC-API-RCVS-007	This requirement maps to the requirement UNI-VSH-007 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-RCVS-008	VOID	VOID
RC-API-RCVS-009	This requirement maps to the requirement UNI-VSH-009 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-RCVS-009b	This requirement maps to the requirement UNI-VSH-009b from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-RCVS-010	This requirement maps to the requirement UNI-VSH-010 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-RCVS-011	This requirement maps to the requirement UNI-VSH-011 from GSMA RCS document [RCSREQ].	RC-APIs 1.0

**Table 18: Video Share Functional Requirements (terminating side) – from GSMA RCS**

### 6.1.8.3 Video Share Media

Out of scope.

## 6.1.9 Network Address Book

This section contains the requirements for the Network Address Book functionality of the RC-APIs enabler.

The following requirements from [RCSREQ] apply to this enabler:

Label	Description	Release
RC-API-RCNAB-001	This requirement maps to the requirement UNI-NAB-001 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-RCNAB-002	This requirement maps to the requirement UNI-NAB-002 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-RCNAB-003	This requirement maps to the requirement UNI-NAB-003 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-RCNAB-004	This requirement maps to the requirement UNI-NAB-004 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-RCNAB-005	This requirement maps to the requirement UNI-NAB-005 from GSMA RCS document [RCSREQ].	RC-APIs 1.0
RC-API-RCNAB-006	This requirement maps to the requirement UNI-NAB-006 from GSMA RCS document [RCSREQ].	RC-APIs 1.0

**Table 19: Network Address Book Functional Requirements – from GSMA RCS**

### 6.1.10 Security

It is expected to be possible for a service provider to deploy developer security mechanisms and engagement/registration processes aimed to individual developers. Developer security mechanisms are out of the scope of this document, and therefore out-of-scope for RC-APIs.

### 6.1.10.1 Authentication

Application authentication and User authentication are out of scope.

### 6.1.10.2 Authorization

The following requirements from [RCSREQ] apply to this enabler:

Label	Description	Release
RCAPI- RCHLFAutho- 001	This requirement maps to the requirement UNI-HLF-007 from GSMA RCS document [RCSREQ].	RC-APIs 1.0

**Table 20: High-Level Functional Requirements – Authorization Items – from GSMA RCS**

### 6.1.10.3 Data Integrity

Data Integrity is out of scope.

### 6.1.10.4 Confidentiality

Confidentiality is out of scope.

## 6.1.11 Charging Events

Charging events are out of scope.

## 6.1.12 Administration and Configuration

Administration and configuration are out of scope.

### 6.1.13 Usability

Usability is out of scope.

### 6.1.14 Interoperability

Not applicable.

### 6.1.15 Privacy

Privacy is out of scope.

## 6.2 Overall System Requirements

Overall system requirements are out of scope.

## Appendix A. Change History

(Informative)

### A.1 Approved Version History

Reference	Date	Description
n/a	n/a	No prior version

### A.2 Draft/Candidate Version 1.0 History

Document Identifier	Date	Sections	Description
Draft Versions OMA-RD-RC_APIs -V1_0	21 Jan 2011	First baseline	Incorporates input to committee: OMA-ARC-RC-APIs-2011-0003-INP_RC_APIsRDbaseline
	22 Jan 2011	6.1, 6.2, App A2	Incorporates input to committee: OMA-ARC-RC-APIs-2011-0012-CR_RC_Requirements
	25 Jan 2011	A2	Same data as Jan 22. uploaded again as during the upload the file was corrupted
	20 Feb 2011	2. 1, 6.1, 6.2, App A2	Incorporates input to committee: OMA-ARC-RC-APIs-2011-0026R02-CR_RCS_API_Requirements_Framework
	26 Apr 2011	6.1.1, A2	Incorporates input to committee: OMA-ARC-RC-APIs-2011-0049R01-INP_Requirement_for_OMA_Push_based_Notification_in_RC_API
	10 May 2011	All sections	Incorporates input to committee: OMA-ARC-2011-0207R01-INP_RCS_API_Requirements
	11 May 2011	All	Changed file format to Microsoft Word "doc" file type. Editorial changes
	07 Jun 2011	2.1 and 5.1	Incorporates input to committee: OMA-ARC-RC-APIs-2011-0052-CR_REQinformalReviewResolution
	04 Jul 2011	2.1	Updated the references with the GSMA public link
	22 Dec 2011	2.1, 6.1.6; 6.1.7; 6.1.8	Updated the references with the GSMA public link and updated FT, Image/Video Share
Draft Version OMA-RD-REST_NetAPI_RCSPProfile-V1_0	01 Mar 2012	File name	Updated the file name
Candidate Version OMA-RD-REST_NetAPI_RCSPProfile-V1_0	08 May 2012	n/a	Status changed to Candidate by TP TP ref # OMA-TP-2012-0193-INP_RC_APIs_1_0_ERP_and_ETR_for_Candidate_Approval