



# **Enabler Release Definition for URI Schemes**

## **Candidate Version 1.0 – 14 Aug 2007**

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**Open Mobile Alliance**  
OMA-ERELED-URI\_Schemes-V1\_0-20070814-C

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# 1. Scope

The scope of this document is limited to the Enabler Release Definition of URI Schemes according to OMA Release process and the Enabler Release specification baseline listed in section 6.

## 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](http://www.ietf.org/rfc/rfc2119.txt)
- [RFC3986] “Uniform Resource Identifiers (URI): Generic Syntax”, T. Berners-Lee, R. Fielding, L. Masinter, January 2005, URL: <http://www.ietf.org/rfc/rfc3986.txt>
- [SCRRULES] “SCR Rules and Procedures”, Open Mobile Alliance™, OMA-ORG-SCR\_Rules\_and\_Procedures, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [URISchemes-TS] “URI Schemes for the Mobile Applications Environment”, Version 1.0, Open Mobile Alliance™, OMA-TS-URI\_Schemes-V1\_0, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)

### 2.2 Informative References

- [URISchemes-RD] “URI Schemes Requirements”, Version 1.0, Open Mobile Alliance™, OMA-RD-URI\_Schemes-V1\_0, [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.

The formal notation convention used in sections 9 and 10 to formally express the structure and internal dependencies between specifications in the Enabler Release specification baseline is detailed in [SCRRULES].

### 3.2 Definitions

<b>Enabler Release</b>	Collection of specifications that combined together form an enabler for a service area, e.g. a download enabler, a browsing enabler, a messaging enabler, a location enabler, etc. The specifications that are forming an enabler should combined fulfil a number of related market requirements.
<b>Minimum Functionality Description</b>	Description of the guaranteed features and functionality that will be enabled by implementing the minimum mandatory part of the Enabler Release.
<b>URI Scheme</b>	The “scheme” part of a Uniform Resource Identifier as specified in [RFC3986]

### 3.3 Abbreviations

<b>ERDEF</b>	Enabler Requirement Definition
<b>ERELD</b>	Enabler Release Definition
<b>IETF</b>	Internet Engineering Task Force
<b>OMA</b>	Open Mobile Alliance
<b>URI</b>	Uniform Resource Identifier

## 4. Introduction

This document outlines the Enabler Release Definition for URI Schemes and the respective conformance requirements for clients implementing claiming compliance to it as defined by Open Mobile Alliance across the specification baseline.

OMA URI Schemes defines support for a set of URI Schemes that are to be ubiquitous in the mobile environment. By ubiquitous, we mean these schemes may appear and apply anywhere within the set of applications, services and enablers that are the mobile environment. The Enabler Release specifies a set of technical requirements for these schemes. The intention is to create a high level of interoperability within the mobile industry when implementing these schemes, and to insure that this set of URI schemes is available wherever useful. In those cases where the source standardization may be ambiguous or incompletely defined for the mobile environment, the URI Schemes Enabler may add or clarify technical specifications in the source standard(s).

OMA URI Schemes does not limit the use of other URI schemes within the mobile application environment.

The scope of this Enabler Release encompasses all user agents that operate within the OMA Mobile Applications Environment

## 5. Description of Differences from Previous Version

Not applicable, this is a new enabler release.



## 6. Document Listing for URI Schemes

This section is normative.

Doc Ref	Permanent Document Reference	Description
<b>Requirement Document</b>		
[URISchemes-RD]	OMA-RD-URI-Schemes-V1_0-20050830-C	Requirement Document for the URI Schemes Enabler
<b>Technical Specifications</b>		
[URISchemes-TS]	OMA-TS-URI_Schemes-V1_0_0-20070814-C	Specification that defines a set of technical requirements for the URI schemes

**Table 1: Listing of Documents in URI Schemes Enabler**

## 7. Minimum Functionality Description for URI Schemes

This section is informative.

This section describes the functionality that is delivered with the OMA URI Schemes version 1.0 specification and its mandatory requirements.

The mandatory functionality of OMA URI Schemes version 1.0 clients defines the following functions as defined in [URISchemes-RD]/[URISchemes-TS].

- Support for context independent processing of all URI schemes that correspond to client supported “logical user agents”.
- Support for URI scheme processing when the identification of a URI is explicit in the language syntax, such as the <a> anchor in XHTML.
- Support for URI character encoding according to [RFC3986], section 2.
- Error handling of unsupported schemes.

The optional functionality of OMA URI Schemes version 1.0 clients defines the following functions as defined in [URISchemes-RD]/[ URISchemes-TS].

- Support for URI scheme processing when the identification of a URI is not explicit in the language syntax.
- Support for the “http:” URI scheme.
- Support for the “https:” URI scheme.
- Support for the “mailto:” URI scheme.
- Support for the “tel:” URI scheme..
- Support for the “sip:” URI scheme.
- Support for the “sips:” URI scheme.
- Support for the “sms:” URI scheme.
- Support for the “mmsto:” URI scheme.

## 8. Conformance Requirements Notation Details

This section is informative

The tables in following chapters use the following notation:

- Item:** Entry in this column **MUST** be a valid ScrItem according to [SCRRULES].
- Feature/Application:** Entry in this column **SHOULD** be a short descriptive label to the **Item** in question.
- Status:** Entry in this column **MUST** accurately reflect the architectural status of the **Item** in question.
- M means the **Item** is mandatory for the class
  - O means the **Item** is optional for the class
  - NA means the **Item** is not applicable for the class
- Requirement:** Expression in the column **MUST** be a valid TerminalExpression according to [SCRRULES] and it **MUST** accurately reflect the architectural requirement of the **Item** in question.

## 9. ERDEF for URI Schemes - Client Requirements

This section is normative.

Item	Feature / Application	Status	Requirement
OMA-ERDEF-URI Schemes-C-001	URI Schemes Client	M	URISchemes-TS:MCF

**Table 2: ERDEF for URI Schemes Client-side Requirements**

## 10.ERDEF for URI Schemes - Server Requirements

Not applicable.

## Appendix A. Change History (Informative)

### A.1 Approved Version 1.0 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-ERELD-URI_Schemes-V1_0	23 Jan 2007		Draft ERELD basis of the URI Schemes ERP to include: - OMA-RD-URI-Schemes-V1_0 - OMA-TS-URI_Schemes-V1_0_0
	05 Mar 2007	All	Added text to all sections.
	27 Mar 2007	6	Editorial fixes to the URI Schemes TS: OMA-TS-URI_Schemes-V1_0_0-20070327-D
	4 May 2007	n/a	Fixed the ERP on Portal with missing OMA-TS-URI_Schemes-V1_0_0
	18 Jul 2007	6	Document Listing updated with fixed OMA-TS-URI_Schemes
Candidate Versions OMA-ERELD-URI_Schemes-V1_0	14 Aug 2007	n/a	Status changed to Candidate by TP: Ref# OMA-TP-2007-0275R01- INP_URI_Schemes_V1_0_for_Candidate_Approval