# Enabler Release Definition for User Agent Profile

Approved Version 2.0 – 06 Feb 2006

**Open Mobile Alliance**

OMA-ERELD-UAProf-V2_0-20060206-A

# Contents



# Tables

# 1. Scope

The scope of this document is limited to the Enabler Release Definition of User Agent Profile (UAProf) according to OMA Release process and the Enabler Release specification baseline listed in section 5.

OMA's *User Agent Profile* specification is concerned with capturing classes of device capabilities and preference information. These classes include (but are not restricted to) the hardware and software characteristics of the device as well as information about the network to which the device is connected. The user agent profile contains information used for *content formatting purposes.* A user agent profile is distinct from a *user preference profile* that would contain application-specific information about the user for content *selection* purposes.

# 2. References

## 2.1 Normative References


**CCPP** "Composite Capability/Preference Profiles (CC/PP): Structure and Vocabularies", G. Klyne, F. Reynolds, C. Woodrow, H. Ohto, URL: http://www.w3.org/TR/CCPP-struct-vocab

**CREQ** "Specification of WAP Conformance Requirements". WAP Forum™. WAP-221-CREQ, URL: http//www.openmobilealliance.org/

**OMA-UAPROF** "User Agent Profile", Open Mobile Alliance™. OMA-WAP-UAProf-v2_0, URL: http://www.openmobilealliance.org/

**RDF** "RDF Semantics", World Wide Web Consortium, P. Hayes, URL: http://www.w3.org/TR/rdf-mt

**RDF-Schema** "RDF Vocabulary Description Language 1.0: RDF Schema", World Wide Web Consortium, D.Brickley, R. V. Guha, URL: http://www.w3.org/TR/rdf-schema

**RFC2119** "Key words for use in RFCs to Indicate Requirement Levels", RFC2119, S. Bradner, March 1997, URL: http://www.ietf.org/rfc/rfc2119.txt


## 2.2 Informative References


**W-HTTP** "WAP Wireless Profiled HTTP", WAP Forum™. WAP-229-HTTP, URL: http://www.openmobilealliance.org/

**WSP** "Wireless Session Protocol Specification", WAP Forum™, WAP-230-WSP, 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.

The formal notation convention used in sections 8 and 9 to formally express the structure and internal dependencies between specifications in the Enabler Release specification baseline is detailed in [CREQ].

## 3.2 Definitions

| | |
|---|---|
| **Enabler Release** | 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. |
| **Minimum Functionality Description** | Description of the guaranteed features and functionality that will be enabled by implementing the minimum mandatory part of the Enabler Release. |

## 3.3 Abbreviations

| | |
|---|---|
| **CCPP** | Composite Capability Preference Profile |
| **CPI** | Capability Preference Information |
| **ERDEF** | Enabler Requirement Definition |
| **ERELD** | Enabler Release Definition |
| **OMA** | Open Mobile Alliance |
| **UAPROF** | User Agent Profile |

# 4. Introduction

This document outlines the Enabler Release Definition for the User Agent Profile (UAProf) and the respective conformance requirements for clients and servers implementing claiming compliance to it as defined by Open Mobile Alliance across the specification baseline.

The UAProf specification defines an architecture to enable the end-to-end flow of a User Agent Profile, also referred to as ***Capability and Preference Information*** (CPI), between a client, the intermediate network points (proxies and gateways), and the origin server. It interoperates with the emerging standard for Composite Capability/Preference Profile (CC/PP) [CCPP].

UAprof uses the CC/PP model to define a robust, extensible framework for describing and transmitting CPI about the client, user, and network.

UAProf is based on the following technogies:

- **Resource Description Framework [**RDF**]**. Used to define the data model for a User Agent Profile.
- **Resource Description Framework Schema [**RDF-Schema**].** Used to define the User Agent Profile vocabulary as defined in [OMA-UAPROF].
- **Composite Capability/Preference Profile [**CCPP**]**. Defines a high-level structured framework for describing a CPI using the Resource Description Framework (RDF) [RDF].

# 5. Document Listing for UAProf

This section is normative.

| Doc Ref | Permanent Document Reference | Description |
|---|---|---|
| **Technical Specifications** | | |
| [UAProf] | OMA-TS-UAProf-V2_0-20060206-A | The *User Agent Profile* specification is concerned with capturing classes of device capabilities and preference information. These classes include (but are not restricted to) the hardware and software characteristics of the device as well as information about the network to which the device is connected. |
| **Supporting Files** | | |
| [ccppschema] | ccppschema-20030226 | A repository of schemas for UAProf's base vocabulary is available at the following URI:<br>http://www.openmobilealliance.org/tech/profiles/ |
| [ccppschema] | ccppschema-20030226.html | A user-friendly, description of the base vocabulary is provided in the following URI in HTML format:<br>http://www.openmobilealliance.org/tech/profiles/<br>If an attribute has authoritative values, the authoritative values are listed in the HTML file |
| [xmlschema] | xmlschema-20030226 | The datatypes used by the base vocabulary are defined in an XML Schema. The XML Schemas are also stored in the following URI:<br>http://www.openmobilealliance.org/tech/profiles/ |

**Table 1: Listing of Documents in UAProf Enabler**

# 6. Minimum Functionality Description for UAProf

This section is informative.

The minimum functionality for the UAProf [OMA-UAPROF] specification includes:

- Profile transport (using [WSP] or [W-HTTP])
- Profiles conform to rules defined in [OMA-UAPROF]
- Schemas conform to rules defined in [OMA-UAPROF]

The UAProf specification also defines the following optional functionality:

- Client and server support profile differences
- Profiles use defaults as defined in [CCPP]

# 7. 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 [CREQ].

**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 [CREQ] and it MUST accurately reflect the architectural requirement of the **Item** in question.

# 8. ERDEF for UAProf - Client Requirements

This section is normative.

| Item | Feature / Application | Status | Requirement |
|---|---|---|---|
| OMA-ERDEF-UAProf-C-001 | UAProf Client | M | UAProf:MCF |

**Table 2: ERDEF for UAProf Client-side Requirements**

# 9. ERDEF for UAProf - Server Requirements

This section is normative.

| Item | Feature / Application | Status | Requirement |
|---|---|---|---|
| OMA-ERDEF-UAProf-S-001 | UAProf Server | M | UAProf:MCF |

**Table 3: ERDEF for UAProf Server-side Requirements**

# Appendix A. Change History (Informative)

## A.1 Approved Version History

| Reference | Date | Description |
|---|---|---|
| OMA-ERELD-UAProf-V2_0 | 17 Jan 2006 | Approved by TP<br>Ref TP Doc# OMA-TP-2005-0351-INP_UAProf_V2_0_for_final_approval |
| OMA-ERELD-UAProf-V2_0 | 06 Feb 2006 | Implementation of Class 3 CRs to OMA-TS-UAProf-V2_0:<br>OMA-UAPROF-2005-0024-CR-UAPROF-Appendix-A<br>OMA-UAPROF-2005-0022R01-CR_UAPROF20<br>Note. The service indicator part of the version number has not been incremented as the material had not yet been published at the time when the changes were incorporated, |