



Enabler Release Definition for Browsing

Candidate Version 2.3 – 13 Mar 2007

Open Mobile Alliance
OMA-ERELD-Browsing-V2_3-20070313-C

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1. Scope

The scope of this document is limited to the Enabler Release Definition (ERELD) of Browsing V2.3 according to OMA Release process and the Enabler Release specification baseline listed in section 5.

The Browsing enabler defines application-level protocols, semantics, syntax and user agent behaviours to provide a browsing capability suitable for mobile and wireless handheld devices.

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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 [IOPP].

3.2 Definitions

Client	A device (or application) that initiates a request for connection with a server.
Content	Synonym for data objects.
Content Format (or Format)	Actual representation of content.
Deprecated	A deprecated feature (e.g. specification, element or attribute) is one that has been outdated by a newer feature. Deprecated features are defined in the specification and are clearly marked as deprecated. Deprecated features may become obsolete in a future version.
Device	A network entity that is capable of sending and receiving packets of information and has a unique device address. A device can act as both a client and a server within a given context or across multiple contexts. For example, a device can service a number of clients (as a server) while being a client to another server.
ECMAScript	A scripting language produced and managed by the European Computer Manufacturers Association (ECMA) that provides a common scripting language for the computer industry.
Enabler Release	A 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.
Gateway (or WAP Gateway)	A server which acts as an intermediary for some other server. A gateway performs protocol transformation as well as encoding/decoding content.
Host Object	ECMAScript objects provided by the user agent for the purpose of interaction with the loaded document.
Hypermedia Transfer	The hypermedia transfer services provides for the transfer of self-describing hypermedia resources. The combination of WSP (Wireless Session Protocol) [WSP] and WTP (Wireless Transaction Protocol) [WTP] provide the hypermedia transfer service over secure and non-secure datagram transports over datagram-based protocol stack. The W-HTTP (Wireless Profiled Hypertext Transfer Protocol) [W-HTTP], a profile of HTTP/1.1 [HTTP/1.1] provides the hypermedia transfer service over secure and non-secure connection-oriented transports over connection-oriented protocol stack.
Origin Server	The server on which a given resource resides or is to be created. Often referred to as a web server or an HTTP server.
Media type	A MIME media type or an identifier for a given data type.
Minimum Functionality Description	Description of the guaranteed features and functionality that will be enabled by implementing the minimum mandatory part of the Enabler Release.
PC Browser	An existing Web browser that already supports text/html.

Resource	A network data object or service that can be identified by a URL. Resources may be available in multiple representations (e.g., multiple languages, data formats, size, and resolutions) or vary in other ways.
Server	A device (or application) that passively waits for connection requests from one or more clients. A server may accept or reject a connection request from a client. Also Origin Server.
Terminal	A device typically used by a user to request and receive information. Also called a mobile terminal or mobile station.
User	A user is a person who interacts with a User Agent to access a resource.
WAE User Agent (or User Agent)	A User Agent is any software or device that interprets markup and scripting languages or other content. This may include textual browsers, voice browsers, search engines, etc.
WAE version	The version of the WAE User Agent. The version of the WAE User Agent may be uniquely identifiable by the WAP version, e.g. WAP version 1.1 contains WAE version 1.1, or it may be a feature of the WAP version in which case the WAE versioning mechanisms are used to determine the WAE User Agent version.
WAP1	WAP Version 1, nominally the latest point release, e.g. WAP V1.2.1, unless otherwise noted.
WAP2	WAP Version 2. When used as a prefix, it indicates that something is compliant to the WAP Version 2 conformance requirements, e.g., a WAP2 client is a client that fulfils all the requirements for a user agent of WAP Version 2. WAP2 content is content with a media type specified in WAP Version 2.
WAP Proxy	An intermediary program which acts as both a server and a client for the purpose of making requests on behalf of other clients. Requests are serviced internally or by passing them on, with possible translation, to other servers. It may provide functions of protocol enhancement, transcoding or any number of other optimisation or transformation functions and may be associated with any gateways, proxies or servers being used in the deployment architecture. WAP gateway is one of the optional functionalities of WAP proxy.
WML	The Wireless Markup Language is a hypertext markup language used to represent information for delivery to a narrowband device, e.g., a phone.
WMLScript	A scripting language used to program the mobile device. WMLScript is an extended subset of the ECMAScript scripting language.
XHTML	The W3Cs codification of HTML version 4.01 in an XML.
XML	The Extensible Markup Language is a World Wide Web Consortium (W3C) standard for Internet markup languages, of which WML is one such language. XML is a restricted subset of SGML.
vCalendar	Internet Mail Consortium (IMC) electronic calendar record.
vCard	Internet Mail Consortium (IMC) electronic business card.

3.3 Abbreviations

CSS	Cascading Style Sheets
DRM	Digital Rights Management
ECMA	European Computer Manufacturer Association
EFI	External Functionality Interface
ERDEF	Enabler Requirement Definition
ERELD	Enabler Release Definition
ESMP	ECMAScript Mobile Profile
HTML	HyperText Markup Language
HTTP	HyperText Transfer Protocol [HTTP/1.1]
OMA	Open Mobile Alliance

UAProf	User Agent Profile
W3C	World Wide Web Consortium
W-HTTP	Wireless Profiled HTTP
WML	Wireless Markup Language (WML1 or WML2)
WML1	Wireless Markup Language Version 1.3
WML2	Wireless Markup Language Version 2.0
WWW	World Wide Web
WSP	Wireless Session Protocol
WAP	Wireless Application Protocol
WAE	Wireless Application Environment. Unless otherwise stated it refers to this version.
WAE20	Wireless Application Environment version 2.0 [WAE20]
WCSS	Wireless Cascading Style Sheets (also previously know as WAP CSS)
WTA	Wireless Telephony Application
WTAI	Wireless Telephony Application Interface (an API defined in WTA)
WBMP	Wireless BitMaP
XHTML	Extensible HyperText Markup Language

4. Introduction

This document outlines the Enabler Release Definition for Browsing V2.3 and the respective conformance requirements for clients and servers implementing claiming compliance to it as defined by Open Mobile Alliance across the specification baseline.

Browsing V2.3 provides OMA browsing capability for mobile and wireless handheld devices and the any necessary or optional supporting network services which may be provided on a gateway or proxy. Browsing V2.3 uses much of the internet technology used in today's PC Browsers to access content on the WorldWide Web (WWW) but limits the specified profiles of this technology to that appropriate to the constrained resources and user interface of mobile and wireless handheld devices, e.g. reduced memory, processing power, communications bandwidth, display and user input capabilities, including some extensions to improve the user experience.

Browsing V2.3 builds on the browsing feature defined in Browsing V2.2 [Browsing22] by providing an updated version of XHTML Mobile Profile [XHTMLMP12]. The updates provide: improved navigation through the use of author control of softkeys when they are provided; enhanced and more consistent support for multimedia objects included in XHTMLMP documents; support for XHTML file upload and enhanced forms capabilities; and an enhanced input mode allowing authors to set the rules for user input data.

As with the Browsing V2.2 particular attention has been placed on enabling backwards compatibility, thereby allowing new devices conforming to the Browser enabler V2.3 to access legacy content and services where the specified set of features to facilitate such access are provided by the devices or supporting network based features.

The suite of specifications defining Browsing V2.3 defines the application-level protocols, semantics, syntax, content formats, user agent behaviour, and the use of hypermedia transfer protocols required to achieve consistent function and interoperability of services.

The Browsing V2.3 enabler maintains the approach of using the Wireless Application Environment [WAESpec] specification to define which markup languages, and script languages, content types and formats and other features of the browser are supported, the use of the hypermedia feature in the WAP 2.0 architecture [WAPArch], and whether they are mandatory or optional. Further it enables extensibility to a number of other features.

Browsing 2.3, or the WAE User Agent, supports the following features directly through the WAE Specification [WAESpec], which is updated in this enabler release:

- Markup language based content to be rendered to the user of the device;
 - WML V1.3 [WML1], WML V2.0 [WML2] and XHTMLMP V1.2[XHTMLMP] are specified. Content using XHTMLMP V1.0[XHTMLMP10] or XHTMLMP V1.1 [XHTMLMP11] is supported through XHTMLMP 1.2 compatibility. The XHTMLMP specification also provides HTML rendering capability within the limit of the device's capabilities.
- Scripting language augmentation of the markup content to allow extended functionality and user experience;
 - WMLScript [WMLScript], with its associated WMLScript Library [WMLStdLib], and
 - ECMAScript Mobile Profile [ESMP] along with a well-known set of host objects.
- Style capabilities to enhance the presentation of markup on devices supporting it.
 - The style is provided by the Wireless Cascading Style Sheets [WCSS] V1.1 specification.. [WCSS] is a profile of the W3C's CSS2 [CSS2] and being inspired by the CSS2 mobile profile [CSSMP] extended with some other desirable features not available in [CSS2] to suite the needs of the mobile Browsing environment.
- Image and other content support;
 - WBMP is a unique, efficient, monochrome format for Browsing V2.3 devices and predecessor devices but other types are supported, the types dependent on the device. WBMP is defined in the WAE Media Types specification [WAEMedia].

- Vcard[VCARD] and Vcalendar[VCAL] are supported formats for the exchange of electronic business cards and calendar information
- Local caching of content to improve user experience and reduce network usage.[CacheMod];
- HTTP State Management [HTTPSM], or cookies in common terminology, to provide the means to convey state and state information between user and application server, e.g. session identifiers, time and date information of last access, recent enquiries to that application, to aid the user's access to that application;
- Pictograms [PICT] to provide an enhanced user experience through the use of small images to augment or even replace textural information, e.g. the use of common weather symbols to illustrate the current weather;

and in which combinations and whether they are mandatory or optional.

The Browsing V2.3 enabler also supports optional extensions to this basic browsing environment, namely

- Download and DRM ERELD ([DL-ERELED] & [DRM-ERELED])
 - Download and DRM provide a common means to download content over the air and manage the lifecycle of the content using Digital Rights Management with the rights expressed in a Rights Expression Language.
- External Functionality Interface ERELD [EFI-ERELED]
 - EFI extends the browser to include other hardware or software elements through the use of markup and script interfaces. The discovery of these elements is enabled thereby allowing them to be used, e.g. start or stop another application, retrieve a digital photograph from a camera, etc. EFI support is updated to version 1.1 in this enabler release.
- Push ([PushArch], [CacheOp], [PushMessage], [PushOTA], [PAP], [PPGService], [ServiceInd], [ServiceLoad])
 - PUSH provides an alert mechanism with the ability to have the alert provide a link to content which is subsequently pulled using the browser
- MMS ERELD [MMS-ERELED]
 - The Multimedia Messaging Service (MMS) provides the means to send and receive rich media messages and uses Push for the alert mechanism.
- Synchronisation [Sync]
- Application level signing of content
 - This is provided through the use of scripting extensions of the basic scripting environment by the ECMA Script Crypto Object [ESMPCrypto] and WMLScript Crypto Library [CryptoLib] features
- WBXML [WBXML]
 - WBXML is a compact format used for WAP Version 1.x browsers and still supported for other features though not required for the Browser per se.
- Wireless Telephony Application Interface [WTAI]
 - The Public Wireless Telephony Application Interface (WTAI) [WTAI] support allows applications to utilise a basic set of telephony features, e.g. make a call.
- Persistent Storage [PSTOR]
 - This provides a means to store data objects locally, personal details, applications, etc., within a device for use by applications and allows improved user experience

Features such as Provisioning, [ProvArch], [ProvCont] and [ProvUAB], and UAPROF [UAPROF] are not specifically called out but are related and presented in the [WAESpec].

Additionally, Browsing 2.3 addresses some market requirements as recognised by real implementations based on previous versions of OMA Browsing. These requirements are identified in [BCI-RD].

5. Document Listing for Browsing 2.3

This section is normative.

The following list of specifications form the total core Browsing V2.3 Enabler Release, though a given device or proxy or server may support a valid subset of these specifications and the features contained within those specifications. The actual minimum profile for a device is defined in section 8 “ERDEF for Browsing V2.3 – Client Requirements”. The minimum profile for the proxy in section 9 “ERDEF for Browsing V2.3 – Server Requirements”. A description of the minimum browsing service being in section 6 “Minimum Functionality Description for Browsing V2.3”.

Doc Ref	Permanent Document Reference	Description
Requirement Documents		
[BE-Phase1-RD]	OMA-RD_BrowsingEnhancementsOne-V1_0-20031216-C	Browsing Enhancements Phase One Requirements V1.0
[BCI-RD]	OMA-RD-BrowserInteroperability-V1_0-20070227-C	Browser Interoperability Requirements V1.0
Architecture Document		
[WAPArch]	OMA-AD-WAP_210_WAPArch-20010712-A	Wireless Application Protocol Architecture Specification
Technical Specifications		
[WAE]	OMA-WAP-TS-WAESpec-V2_3-20070227-C	Wireless Application Environment Specification, Version 2.3
[ESMP]	OMA-WAP-ESMP-V1_0-20061020-A	ECMA Script Mobile Profile
[CacheMod]	OMA-TS-UACACHE-V1_1-20070227-C	User Agent Caching Model 1.1
[WML1]	WAP-191-WML-20000219-a	WAP Wireless Markup Language Version 1.3
	WAP-191_102-WML-20001213-a.	WML Specification Information Note 102
	WAP-191_104-WML-20010718-a	WAP Specification Information Note 104
	WAP-191_105-WML-20020212-a.	WML Specification Information Note 105
[WMLScript]	WAP-193-WMLScript-20001025-a.pdf	Wireless Markup Language Script Specification
	WAP-193_101-WMLScript-20010928-a.	WML Specification Information Note 101
[WMLStdLib]	WAP-194-WMLScriptLibraries-20000925-a	Wireless Markup Language Script Standard Libraries Specification
	WAP-194_103-WMLScriptLibraries-20020318-a	Wireless Markup Language Script Standard Libraries Specification Information Note 103
[HTTPSM]	OMA-TS-HTTPSM-V1_1-20070227-C	HTTP State Management Specification 1.1
[WAEMedia]	WAP-237-WAEMT-20010515-a	Wireless Application Environment Defined Media Type Specification
[WML2]	WAP-238-WML-20010911-a	Wireless Markup Language version 2.0
[WCSS]	OMA-WAP-WCSS-V1_1-20061020-A	WAP CSS Specification 1.1
[XHTMLMP]	OMA-TS-XHTMLMP-V1_2-20070227-C	XHTML Mobile Profile Version 1.2
[PICT]	OMA-WAP-TS-Pictogram-V1_1-20061620-A	WAP Pictogram Specification, Version 1.1
[WBXML]	WAP-192-WBXML-20010725-a	Wireless Binary eXtended Markup Language
[CryptoLib]	WAP-161-WMLScriptCrypto-20010620-a	WMLScript Crypto Library
Supporting Files		

	OMA-SUP-DTD_wml13-V1_3-20061020-A	DTD for WAP Wireless Markup Language Version 1.3 Working file in DTD directory: file: wml13.dtd path: http://www.wapforum.org/DTD/ and path: http://www.openmobilealliance.org/tech/dtd/
	OMA-SUP-DTD_wml20-V2_0-20061020-A	DTD for Wireless Markup Language version 2.0 Working file in DTD directory: file: wml20.dtd path: http://www.wapforum.org/DTD/ and path: http://www.openmobilealliance.org/tech/dtd/
	OMA-SUP-DTD_wml20-flat-V2_0-20061020-A	DTD for Wireless Markup Language version 2.0 Working file in DTD directory: file: wml20-flat.dtd path: http://www.wapforum.org/DTD/ and path: http://www.openmobilealliance.org/tech/dtd/
	OMA-SUP-MOD_wml-deprecated-1-V2_0-20061020-A	MOD for Wireless Markup Language version 2.0 Working file in DTD directory: file: wml-deprecated-1.mod path: http://www.wapforum.org/DTD/ and path: http://www.openmobilealliance.org/tech/dtd/
	OMA-SUP-MOD_wml-framework-1-V2_0-20061020-A	MOD for Wireless Markup Language version 2.0 Working file in DTD directory: file: wml-framework-1.mod path: http://www.wapforum.org/DTD/ and path: http://www.openmobilealliance.org/tech/dtd/
	OMA-SUP-MOD_wml-special-1-V2_0-20061020-A	MOD for Wireless Markup Language version 2.0 Working file in DTD directory: file: wml-special-1.mod path: http://www.wapforum.org/DTD/ and path: http://www.openmobilealliance.org/tech/dtd/
	OMA-SUP-MOD_wml-qname-1-V2_0-20061020-A	MOD for Wireless Markup Language version 2.0 Working file in DTD directory: file: wml-qname-1.mod path: http://www.wapforum.org/DTD/ and path: http://www.openmobilealliance.org/tech/dtd/
	OMA-SUP-DTD_xhtml_mobile12-V1_2-20070313-C	DTD for "XHTML Mobile Profile V1.2" Working file in DTD directory: file: xhtml-mobile12.dtd path: http://www.openmobilealliance.org/tech/dtd/

	OMA-SUP-MOD_xhtml_mobile12_model_1-V1_2-20070313-C	MOD for "XHTML Mobile Profile V1.2" DTD module Working file in DTD directory: file: xhtml-mobile12-model-1.mod path: http://www.openmobilealliance.org/tech/dtd/
	OMA-SUP-MOD_xhtml_mobile12_form_1-V1_2-20070313-C	MOD for "XHTML Mobile Profile V1.2" Forms module Working file in DTD directory: file: xhtmlmp12-form-1.mod path: http://www.openmobilealliance.org/tech/dtd/

The following enablers and specifications form non-core extensions to the core Browsing V2.3 Enabler Release or optional additional enablers or features which have some dependency on the Browsing V2.3 Enabler Release.

"Cypto Object for the ECMAScript Mobile Profile" [ESMPCrypto]
 "Enabler Release Definition for Download Version 1.0" [DL-ERELED]
 "Enabler Release Definition for DRM Version 2.0" [DRM-ERELED]
 "Enabler Definition for EFI V1.1 [EFI-ERELED]
 "Enabler Release Definition for MMS Version 1.1" [MMS-ERELED]
 "Persistent Storage", [PSTOR]
 "Synchronisation", [Sync]
 "Wireless Telephony Application Interface", [WTAI]
 Push

- "Push Architecture Overview", [PushArch]
- "Push OTA Protocol", [PushOTA]
- "Push Access Protocol" [PAP]
- "Push Proxy Gateway Service", [PPGService]
- "Push Message", [PushMessage]
- "WAP Service Indication", [ServiceInd]
- "WAP Service Loading", [ServiceLoad]
- "WAP Cache Operation", [CacheOp]

6. Minimum Functionality Description for Browsing V2.3

This section is informative

The minimum functionality description for the Browsing Version 2.3 enabler release is the support for the minimum requirements of the “Wireless Application Environment, Version 2.3” [WAE], and the HTTP State Management specification [HTTPSM]. This provides a minimum browser experience without any of the optional extra features, i.e. no Style, images, Vcard, or Vcalendar from the core browser features and no optional enablers or specifications as listed in section 5.

The minimum functionality is the minimum set of requirements from:

- XHTML Mobile Profile V1.2 for renderable content
- ECMAScript Mobile Profile
- User Agent Caching Model
- Behaviour of the user agent during navigation between displayable pages of content
- Content retrieval using HTTP semantics and where HTTPS semantics are used via a secure session. The HTTP semantics are used via the Hypermedia Transfer service as defined in [WAPArch].
- General behaviour of the Browser in its use of protocols, supported media types etc.
- WBMP Images support if the device supports graphics
- HTTP State Management (mandated through this document)

WCSS should be supported in the minimum requirements for a Browsing Version 2.2 conformant implementation unless it is impractical to do so for a class of device, i.e. the device has insufficient user interface capabilities which prevents its meaningful use.

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 [IOPProc].

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 [10PProc] and it **MUST** accurately reflect the architectural requirement of the **Item** in question.

8. ERDEF for Browsing V2.3 - Client Requirements

This section is normative.

Table 1 ERDEF for Browsing V2_3 Client-side Requirements

Item	Feature / Application	Status	Requirement
OMA-ERDEF-BROWSING-C-001	Browsing V2.3 Client	M	WAESpec:MCF AND HTTPSM:MCF

9. ERDEF for Browsing V2.3 - Server Requirements

This section is normative.

Table 2 ERDEF for Browsing V2_3 Server-side Requirements

Item	Feature / Application	Status	Requirement
OMA-ERDEF-BROWSING-S-001	Browsing V2.3 Server	M	WAESpec:MCF AND HTTPSM:MCF

Appendix A. Change History

(Informative)

A.1 Approved Version History

Reference	Date	Description
n/a	n/a	No previous version within OMA

A.2 Draft/Candidate Version 2.3 History

Document Identifier	Date	Sections	Description
Draft Versions OMA-ERELD-Browsing-V2_3	15 Aug 2004	All	Initial draft formed from Browsing 2.2. ERELD
	09 Dec 2004	2.1	Add reference to the Browsing Enhancements RD
		5	Add Browsing Enhancements RD to baseline and citation
	10 Dec 2004	5	Fixed spelling error
	21 Dec 2004	2.1	Modified referenced version for [BE-Phase1-RD] from OMA-Browsing-Enh-REQ-V1_0_1-20031008-D.doc to OMA-RD_BrowsingEnhancementsOne-V1_0. The same document, only aligning the name and filename and template and status
	22 Dec 2004	2.1	Correct spelling of ref [BE-Phase1-RD] to OMA-RD_BrowsingEnhancementsOne-V1_0 to align with RD correction
Candidate Versions OMA-ERELD_Browsing-V2_3	18 Jan 2005	n/a	Status changed to Candidate by TP TP ref #OMA-TP-2004-0459-Browsing-2_3-for-candidate-approval
	17 May 2005	n/a	Date update to reflect the changes in minor CRs applied to ESMP.
	14 Jun 2005	n/a	Date update to reflect the changes in minor CRs applied to ESMP. Ref# OMA-TP-2005-0176-Notification-changes-Browsing-2_1-2_2-2_3
	28 Jul 2006	2.1	Template updated
		5	Minor update of reference to Pictogram : OMA-MAE-2005-0239-CR_Browsing_ERELED_re_Pictogram.doc OMA-MAE-2006-0048R01-INP_BrowsingUpdateRePictAndXHTMP (Pictogram Spec added to the ERP) Apply OMA-MAE-2006-0220-CR_Add_RD_to_Browsing23_ERELED
	31 Oct 2006	Template, 5	Revert to -D to show being touched Add SUP files to section 5 Apply SUP updates OMA-MAE-2006-0330-CR_XHTMLMPL2SUPmodel OMA-MAE-2006-0337-CR_XHTMLMPL2SUPmodel_titlecomment OMA-MAE-2006-0361-CR_XHTMLMPL2SUP_form_filepostfix Apply HTTPSM reference change OMA-MAE-2006-0373R01-CR_ERELED23_HTTPSM_change Apply UACACHE reference change OMA-MAE-2006-0374R02-CR_ERELED23_Caching_change Editorially change: Update specific ref to WCSS in 5.to OMA-WAP-WCSS-V1_1-20061020-A following approval Editorially change: Update specific ref to PictogramWCSS in 5.to OMA-WAP-TS-Pictogram-V1_1-20061020-A following approval
14 Nov 2006		Update dates for UACache and HTTPSM to latest PDs Update SUP to OMA-SUP-DTD_xhtml_mobile12-V1_2-20061108-C in line with OMA-MAE-2006-0382-CR_XHTMLMPL2DTrailingcomments.zip Apply OMA-MAE-2006-0386R01-CR_Add_BCI_RD_to_B23_ERELED	

Document Identifier	Date	Sections	Description
	21 Nov 2006		Update history for 28 July to reflect application of OMA-MAE-2006-0220-CR_Add_RD_to_Browsing23_ERELD Apply OMA-MAE-2006-0349-CR_Browsing_2_3_cleanup except use date of the -A version of ESMP Editorially change OMA-SUP-MOD_xhtml_mobile12_model_1-V1_1_0-20060923-D to OMA-SUP-MOD_xhtml_mobile12_model_1-V1_2-20060923-D in ERELD and ERP supporting material Editorially update the XHTMLMP 1.2 Model file to OMA-SUP-MOD_xhtml_mobile12_model_1-V1_2-20061121-D to fully implement CR 330 (removal of part of the comment)
	24 Nov 2006		Editorially move some entries in section 5 so the spec came before the SIN updates. Editorially remove redundant HTTPSM V1.0 SIN from section 5. Editorially update the SUPs for WML 1.3 and 2.0 to 20061020-A to reflect their new status. Editorially correct some typos Editorial update UACaching date to reflect cleanup draft upload Mirror date update for WAESpec
	28 Nov 2006	5	Remove duplicate WMLScript SIN. Resolve date for updated XHTMLMP 1.2 Resolve all XHTMLMP 1.2 SUPs to -D
	07 Dec 2006	5	Mirror update to BCI RD to reflect roll-up of OMA-MAE-2006-0393R01-CR_Browser_Interoperability_RD
	20 Jan 2007		2007 template OMA-ERP-Browsing-V2_3-20061207-D updated with addition of SUP files (missing in zip file)
	27 Feb 2007	n/a	Re-approved as Candidate by TP OMA-TP-2007-0074R01- INP_Browsing_V2_3_ERP_for_Candidate_Re_approval
	13 Mar 2007	5	Minor CRs to match the OMA standard prologue to: - OMA-SUP-DTD_xhtml_mobile12-V1_2-20070227-C.dtd (CR 2007-0046R01) - OMA-SUP-MOD_xhtml_mobile12_model_1-V1_2-20070227-C.mod (CR 2007-0047R01) - OMA-SUP-MOD_xhtml_mobile12_form-V1_2-20070227-C.mod (CR 2007-0048R01)