



# **Enabler Test Specification for WAE v2.2**

## **Candidate Version 2.2 – 23 Feb 2006**

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**Open Mobile Alliance**  
OMA-ETS-WAE-v2\_2-20060223-C

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# 1. Scope

This document describes in detail available test cases for OMA Wireless Application Environment (WAE) version 2.2.

## 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)
- [WAE]; [WAESpec] “Wireless Application Environment Specification”, Open Mobile Alliance™ OMA-WAP-WAESpec-V2\_2. URL. <http://www.openmobilealliance.org>
- [WAEMedia] “WAE Defined Media Type”, Open Mobile Alliance™. WAP-237-WAEMT. URL.  
<http://www.openmobilealliance.org>
- [VSWAP J2K] Compliance testsuite for WAP J2K. The test suite can be downloaded from  
<http://member.openmobilealliance.org>
- [VSWAP 2.0] Compliance testsuite for WAP 2.0. The test suite can be downloaded from  
<http://member.openmobilealliance.org>
- [XHTMLMP11ETS] “Enabler Test Specification for XHTML 1.1”, Open Mobile Alliance™ OMA-ETS-XHTML-V1\_1, <http://www.openmobilealliance.org>
- [ESMP10ETS] “Enabler Test Specification for ESMP 1.0”, Open Mobile Alliance™ OMA-ETS-ESMP-V1\_0,  
<http://www.openmobilealliance.org>
- [WML13ETS] “Enabler Test Specification for WML 1.3”, Open Mobile Alliance™ OMA-ETS-WML-V1\_3,  
<http://www.openmobilealliance.org>
- [WML20ETS] “Enabler Test Specification for WML 2.0”, Open Mobile Alliance™ OMA-ETS-WML-V2\_0,  
<http://www.openmobilealliance.org>
- [WCSS11ETS] “Enabler Test Specification for WCSS 1.1”, Open Mobile Alliance™ OMA-ETS-WCSS-v1\_1,  
<http://www.openmobilealliance.org>
- [WMLScriptETS] “Enabler Test Specification for WML Script Language”, Open Mobile Alliance™ OMA-ETS-WMLS, <http://www.openmobilealliance.org>
- [WMLStdLibETS] “Enabler Test Specification for WML Script Standard Libraries”, Open Mobile Alliance™ OMA-ETS-WMLStdLib, <http://www.openmobilealliance.org>

### 2.2. Informative References

## 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 following numbering scheme is used:

xxx-y.z-con-number where:

xxx	Name of enabler, e.g. MMS or Browsing
y.z	Version of enabler release, e.g. 1.2 or 1.2.1
con	Indicating this test is a conformance test case
number	Leap number for the test case

Or

xxx-y.z-int-number where:

xxx	Name of enabler, e.g. MMS or Browsing
y.z	Version of enabler release, e.g. 1.2 or 1.2.1
int	Indicating this test is a interoperability test case
number	Leapnumber for the test case

### 3.2. Definitions

None.

### 3.3. Abbreviations

WAE	Wireless Application Environment
WAEMT	Wireless Application Environment Media Types
HTML	HyperText Markup Language
HTTP	HyperText Transfer Protocol [HTTP]
HTTPSM	HyperText Transfer Protocol State Management, see [HTTPSM]
OMA	Open Mobile Alliance
WAESpec	Wireless Application Environment Specification, see [WAESpec]
WAP	Wireless Application Protocol

## 4. WAE Test Documentation

This section is informative.

### 4.1. The WAE Test Documents Suite

The following lists the suite of test documents applicable to the Wireless Application Environment 2.2, the root specification of Browsing 2.2.

- Wireless Application Environment Enabler Test Specification (This document)
- XHTML Mobile Profile Version 1.1 Enabler Test Specification [XHTMLMP11ETS]
- ECMAScript Mobile Profile Version 1.0 Enabler Test Specification [ESMP10ETS]
- Wireless Markup Language Specification Version 1.3 Enabler Test Specification [WML13ETS]
- Wireless Markup Language Specification Version 2.0 Enabler Test Specification [WML20ETS]
- Wireless CSS Enabler Version 1.1 Test Specification [WCSS11ETS]
- WMLScript Language Specification Enabler Test Specification [WMLScriptETS]
- WMLScript Standard Libraries Specification Enabler Test Specification [WMLStdLibETS]



## 5. Introduction

The purpose of this document is to provide test cases for OMA Wireless Application Environment (WAE) version 2.2.

In addition to XHTMLMP, WAE allows clients to support WML1 and WML2. A set of optional tests is therefore provided for the WML1 clients.

The test tool, VSWAP, serves content using WML2 syntax for the WAE-XHTMLMP tests and WML1.3 syntax for the WAE-WML1 tests.

A pure XHTMLMP client that does not support any WML2 syntax will not be able run any VSWAP tests.

Because the WAE conformance tests in VSWAP also test interoperability of the client under test with WAP Gateways and HTTP proxies, no specific IOP tests are identified in this document. If the conformance test cases are run successfully against a server/proxy, then interoperability will have been established within the limits of the test coverage.

## 6. Conformance Test Cases

### 6.1. WAE - XHTMLMP Conformance Test Cases

There are 17 WAE – XHTMLMP Conformance Test Cases

#### 6.1.1. Content Types (User Agent)

Test Case ID	WAE-2.2-con-101
Test Object	Client device
Test Case Description	To test support of the required content types
Specification Reference	[WAE] Section 6.1
SCR Reference	WAESpec-MT-C-001
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Client devices are configured according to [VSWAP 2.0]
Test Procedure	Run the following assertion in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae2/media/types/1</li> </ul>
Pass-Criteria	The verification criteria in the test suite [VSWAP 2.0] are met (via display of client device).

### 6.1.2. Graphical Images (User Agent)

Test Case ID	WAE-2.2-con-102
Test Object	Client device
Test Case Description	To test support for graphical images
Specification Reference	[WAE] Section 6.6
SCR Reference	WAESpec-IMG-C-001
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Client devices are configured according to [VSWAP 2.0]
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae2/media/images/grules/1</li> <li>• wae2/wbmp/typeid/1</li> <li>• wae2/wbmp/typeid/2</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.1.3. Vcard support (User Agent)

Test Case ID	WAE-2.2-con-103
Test Object	Client device
Test Case Description	To test Vcard functionality
Specification Reference	[WAE] Section 6.7
SCR Reference	WAESpec-VCARD-C-001 till 005
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Client devices are configured according to [VSWAP 2.0]
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae2/media/vcard/cdrules/1</li> <li>• wae2/media/vcard/cdrules/3</li> <li>• wae2/media/vcard/cdrules/4</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

#### 6.1.4. Vcal support (User Agent)

Test Case ID	WAE-2.2-con-104
Test Object	Client device
Test Case Description	To test Vcal functionality
Specification Reference	[WAE] Section 6.8
SCR Reference	WAESpec-VCAL-C-001 till 004
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Client devices are configured according to [VSWAP 2.0]
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae2/media/vcal/calrules/1</li> <li>• wae2/media/vcal/calrules/3</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

#### 6.1.5. Multipart Message Encoding Formats (User Agent)

Test Case ID	WAE-2.2-con-105
Test Object	Client device
Test Case Description	To test Multipart Message Encoding functionality
Specification Reference	[WAE] Section 6.9
SCR Reference	WAESpec-MUL-C-001 till 009
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Client devices are configured according to [VSWAP 2.0]
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae2/media/multipart/form/1</li> <li>• wae2/media/multipart/form/3</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.1.6. Minimum URI Length (User Agent)

Test Case ID	WAE-2.2-con-106
Test Object	Client device
Test Case Description	To test support for minimum URI length
Specification Reference	[WAE] Section 7.2
SCR Reference	WAESpec-URI-C-001 till 006
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Client devices are configured according to [VSWAP 2.0]
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae2/features/uri/1</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.1.7. UTF-8 and UTF-16 charset (User Agent)

Test Case ID	WAE-2.2-con-107
Test Object	Client device
Test Case Description	To test the support for charsets UTF-8 and UTF-16
Specification Reference	[WAE] Section 7.6.1
SCR Reference	WAESpec-I18N-C-001 till 003
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Client devices are configured according to [VSWAP 2.0]
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae2/features/internationalisation/encoding/1</li> <li>• wae2/features/internationalisation/encoding/2</li> <li>• wae2/features/internationalisation/encoding/5</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.1.8. Support for HTTP/1.1 Basic Authentication (User Agent)

Test Case ID	WAE-2.2-con-108
Test Object	Client device
Test Case Description	Support for HTTP/1.1 Basic Authentication
Specification Reference	[WAE] Section 7.12.1
SCR Reference	WAESpec-SEC-C-001
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Client devices are configured according to [VSWAP 2.0].
Test Procedure	Run the following assertions in the [VSWAP 2.0] <ul style="list-style-type: none"> <li>• wae2/features/control/authentication/1</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device).

### 6.1.9. Navigation History Model (User Agent)

Test Case ID	WAE-2.2-con-109
Test Object	Client device
Test Case Description	To test the Navigation History Model
Specification Reference	[WAE] Section 7.13.1
SCR Reference	WAESpec-UAB-C-001
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Client devices are configured according to [VSWAP 2.0]
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae2/features/uabehaviour/navhistory/rules/1</li> <li>• wae2/features/uabehaviour/navhistory/rules/3</li> <li>• wae2/features/uabehaviour/navhistory/rules/4</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.1.10. Back Key Functionality (User Agent)

Test Case ID	WAE-2.2-con-110
Test Object	Client device
Test Case Description	To test the Navigation History Back Key functionality.
Specification Reference	[WAE] Section 7.13.2
SCR Reference	WAESpec-UAB-C-002 till 003
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Client devices are configured according to [VSWAP 2.0]
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae2/features/uabehaviour/backkey/rules/1</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.1.11. Multipart Handling (Proxy/Gateway/PEP)

Test Case ID	WAE-2.2-con-111
Test Object	Server
Test Case Description	To test the conversion from standard internet Multipart to WAP specific Multipart via WSP
Specification Reference	[WAE] Section 6.9.5
SCR Reference	WAESpec-MUL-S-001 till 004
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Server is configured according to [VSWAP 2.0]
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae2/media/multipart/form/4</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.1.12. Minimum URI Length (Proxy/Gateway/PEP)

Test Case ID	WAE-2.2-con-112
Test Object	Server
Test Case Description	To test the support for the minimum URI length.
Specification Reference	[WAE] Section 7.2
SCR Reference	WAESpec-URI-S-001
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Server is are configured according to [VSWAP 2.0]
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae2/features/uri/2</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.1.13. UTF-8 and UTF-16 Characterset (Proxy/Gateway/PEP)

Test Case ID	WAE-2.2-con-113
Test Object	Server
Test Case Description	Server support for UTF-8 and UTF-16 characterset.
Specification Reference	[WAE] Section 7.6.1
SCR Reference	WAESpec-I18N-S-001 till 003
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Server is configured according to [VSWAP 2.0]
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae2/features/internationalisation/encoding/3</li> <li>• wae2/features/internationalisation/encoding/4</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)



### 6.1.14. Unknown Character Support (Proxy/Gateway/PEP)

Test Case ID	WAE-2.2-con-114
Test Object	Server
Test Case Description	Unknown character behaviour.
Specification Reference	[WAE] Section 7.6.1
SCR Reference	WAESpec-I18N-S-004
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Server is configured according to [VSWAP 2.0]
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>wae2/features/internationalisation/encoding/5</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.1.15. Support for Crypto Lib encoding (Proxy/Gateway/PEP)

Test Case ID	WAE-2.2-con-115
Test Object	Server
Test Case Description	Support for Crypto Lib encoding
Specification Reference	[WAE] Section 7.12.3
SCR Reference	WAESpec-SEC-S-001
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Server is configured according to [VSWAP 2.0]
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>wae2/features/control/crypto/cryptorule/1</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.1.16. No TLS / WTLS support available (User Agent)

Test Case ID	WAE-2.2-con-116
Test Object	Client device
Test Case Description	No TLS / WTLS support available
Specification Reference	[WAE] Section 7.2.2
SCR Reference	WAESpec-URI-C-006
Tool	[VSWAP 2.0] with a Proxy with TLS disabled
Test Code	No code required
Preconditions	WAP Gateway with WTLS disabled
Test Procedure	Attempt to connect to VSWAP
Pass-Criteria	The client device must display an understandable error message to the user indicating that no secure communication method is available.

### 6.1.17. Support for WML2 (Client)

Test Case ID	WAE-2.2-con-117
Test Object	Server
Test Case Description	Support for WML2
Specification Reference	[WAE] Section 6.2
SCR Reference	WAESpec-ML-C-003
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Server is configured according to [VSWAP 2.0] WAESpec-ML-C-003
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae2/media/markup/rules/1</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

## 6.2. Conformance Test Cases for WML1 Clients

The Conformance Test Cases for WML1 clients must be run if the client under test supports WML1 in binary or textual form (WAESpec-ML-C-006 OR WAESpec-ML-C-007).

There are 17 Conformance Test Cases in this section

### 6.2.1. Content Types (User Agent)

Test Case ID	WAE-2.2-con-201
Test Object	Client device
Test Case Description	To test support of the required content types
Specification Reference	[WAE] Section 6.1
SCR Reference	WAESpec-MT-C-001
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Client devices are configured according to [VSWAP 2.0] WAESpec-ML-C-006 OR WAESpec-ML-C-007
Test Procedure	Run the following assertion(s) in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae/media/types/1</li> </ul>
Pass-Criteria	The verification criteria in the test suite [VSWAP 2.0] are met (via display of client device).

## 6.2.2. Support for Maintaining Context (User Agent)

Test Case ID	WAE-2.2-con-202
Test Object	Server
Test Case Description	Support for maintaining context between WML1, and WML2
Specification Reference	[WAE] Section 6.2
SCR Reference	WAESpec-ML-C-003
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Server is configured according to [VSWAP 2.0]  WAESpec-ML-C-003 and (WAESpec-ML-C-006 or WAESpec-ML-C-007)
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae2/media/markup/rules/3</li> <li>• wae2/media/markup/rules/4</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.2.3. Graphical Images (User Agent)

Test Case ID	WAE-2.2-con-203
Test Object	Client device
Test Case Description	To test support for graphical images
Specification Reference	[WAE] Section 6.6
SCR Reference	WAESpec-IMG-C-001
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Client devices are configured according to [VSWAP 2.0]  WAESpec-ML-C-006 OR WAESpec-ML-C-007
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae/media/images/grules/1</li> <li>• wae/wbmp/typeid/1</li> <li>• wae/wbmp/typeid/2</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.2.4. Vcard support (User Agent)

Test Case ID	WAE-2.2-con-104
Test Object	Client device
Test Case Description	To test Vcard functionality
Specification Reference	[WAE] Section 6.7
SCR Reference	WAESpec-VCARD-C-001 till 005
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Client devices are configured according to [VSWAP 2.0]  WAESpec-ML-C-006 OR WAESpec-ML-C-007
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae/media/vcard/cardrules/1</li> <li>• wae/media/vcard/cardrules/3</li> <li>• wae/media/vcard/cardrules/4</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.2.5. Vcal support (User Agent)

Test Case ID	WAE-2.2-con-205
Test Object	Client device
Test Case Description	To test Vcal functionality
Specification Reference	[WAE] Section 6.8
SCR Reference	WAESpec-VCAL-C-001 till 004
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Client devices are configured according to [VSWAP 2.0]  WAESpec-ML-C-006 OR WAESpec-ML-C-007
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae/media/vcal/calrules/1</li> <li>• wae/media/vcal/calrules/3</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.2.6. Multipart Message Encoding Formats (User Agent)

Test Case ID	WAE-2.2-con-106
Test Object	Client device
Test Case Description	To test Multipart Message Encoding functionality
Specification Reference	[WAE] Section 6.9
SCR Reference	WAESpec-MUL-C-001 till 009
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Client devices are configured according to [VSWAP 2.0]  WAESpec-ML-C-006 OR WAESpec-ML-C-007
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae/media/multipart/form/1</li> <li>• wae/media/multipart/form/3</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.2.7. Minimum URI Length (User Agent)

Test Case ID	WAE-2.2-con-207
Test Object	Client device
Test Case Description	To test support for minimum URI length
Specification Reference	[WAE] Section 7.2
SCR Reference	WAESpec-URI-C-001 till 006
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Client devices are configured according to [VSWAP 2.0]  WAESpec-ML-C-006 OR WAESpec-ML-C-007
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae/features/uri/1</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.2.8. UTF-8 and UTF-16 charset (User Agent)

Test Case ID	WAE-2.2-con-108
Test Object	Client device
Test Case Description	To test the support for charsets UTF-8 and UTF-16
Specification Reference	[WAE] Section 7.6.1
SCR Reference	WAESpec-I18N-C-001 till 003
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Client devices are configured according to [VSWAP 2.0]  WAESpec-ML-C-006 OR WAESpec-ML-C-007
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae/features/internationalisation/encoding/1</li> <li>• wae/features/internationalisation/encoding/2</li> <li>• wae/features/internationalisation/encoding/5</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)



### 6.2.9. Support for HTTP/1.1 Basic Authentication (User Agent)

Test Case ID	WAE-2.2-con-209
Test Object	Client device
Test Case Description	Support for HTTP/1.1 Basic Authentication
Specification Reference	[WAE] Section 7.12.1
SCR Reference	WAESpec-SEC-C-001
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Client devices are configured according to [VSWAP 2.0].  WAESpec-ML-C-006 OR WAESpec-ML-C-007
Test Procedure	Run the following assertions in the [VSWAP 2.0] <ul style="list-style-type: none"> <li>• wae/features/control/authentication/1</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device).

### 6.2.10. Navigation History Model (User Agent)

Test Case ID	WAE-2.2-con-210
Test Object	Client device
Test Case Description	To test the Navigation History Model
Specification Reference	[WAE] Section 7.13.1
SCR Reference	WAESpec-UAB-C-001
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Client devices are configured according to [VSWAP 2.0].  WAESpec-ML-C-006 OR WAESpec-ML-C-007
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae/features/uabehaviour/navhistory/rules/1</li> <li>• wae/features/uabehaviour/navhistory/rules/3</li> <li>• wae/features/uabehaviour/navhistory/rules/4</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.2.11. Back Key Functionality (User Agent)

Test Case ID	WAE-2.2-con-211
Test Object	Client device
Test Case Description	To test the Navigation History Back Key functionality.
Specification Reference	[WAE] Section 7.13.2
SCR Reference	WAESpec-UAB-C-002 till 005
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Client devices are configured according to [VSWAP 2.0]  WAESpec-ML-C-006 OR WAESpec-ML-C-007
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae/features/uabehaviour/backkey/rules/1</li> <li>• wae/features/uabehaviour/backkey/rules/3</li> <li>• wae/features/uabehaviour/backkey/rules/4</li> <li>• wae/features/uabehaviour/backkey/rules/5</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.2.12. Multipart Handling (Proxy/Gateway/PEP)

Test Case ID	WAE-2.2-con-212
Test Object	Server
Test Case Description	To test the conversion from standard internet Multipart to WAP specific Multipart via WSP
Specification Reference	[WAE] Section 6.9.5
SCR Reference	WAESpec-MUL-S-001 till 004
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Server is configured according to [VSWAP 2.0] WAESpec-ML-C-006 OR WAESpec-ML-C-007
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae/media/multipart/form/4</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.2.13. Minimum URI Length (Proxy/Gateway/PEP)

Test Case ID	WAE-2.2-con-213
Test Object	Server
Test Case Description	To test the support for the minimum URI length.
Specification Reference	[WAE] Section 7.2
SCR Reference	WAESpec-URI-S-001
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Server is are configured according to [VSWAP 2.0] WAESpec-ML-C-006 OR WAESpec-ML-C-007
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae/features/uri/2</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.2.14. UTF-8 and UTF-16 Characterset (Proxy/Gateway/PEP)

Test Case ID	WAE-2.2-con-214
Test Object	Server
Test Case Description	Server support for UTF-8 and UTF-16 characterset.
Specification Reference	[WAE] Section 7.6.1
SCR Reference	WAESpec-I18N-S-001 till 003
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Server is configured according to [VSWAP 2.0]  WAESpec-ML-C-006 OR WAESpec-ML-C-007
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae/features/internationalisation/encoding/3</li> <li>• wae/features/internationalisation/encoding/4</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.2.15. Unknown Character Support (Proxy/Gateway/PEP)

Test Case ID	WAE-2.2-con-215
Test Object	Server
Test Case Description	Unknown character behaviour.
Specification Reference	[WAE] Section 7.6.1
SCR Reference	WAESpec-I18N-S-004
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Server is configured according to [VSWAP 2.0]  WAESpec-ML-C-006 OR WAESpec-ML-C-007
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae/features/internationalisation/encoding/5</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.2.16. Support for Crypto Lib encoding (Proxy/Gateway/PEP)

Test Case ID	WAE-2.2-con-216
Test Object	Server
Test Case Description	Support for Crypto Lib encoding
Specification Reference	[WAE] Section 7.12.3
SCR Reference	WAESpec-SEC-S-001
Tool	[VSWAP 2.0]
Test Code	See test procedure in [VSWAP 2.0]
Preconditions	Test environment is set up and Server is configured according to [VSWAP 2.0]  WAESpec-ML-C-006 OR WAESpec-ML-C-007
Test Procedure	Run the following assertions in the [VSWAP 2.0]: <ul style="list-style-type: none"> <li>• wae/features/control/crypto/cryptorule/1</li> </ul>
Pass-Criteria	The verification criteria in the test suite are met (via display of client device)

### 6.2.17. No TLS / WTLS support available (User Agent)

Test Case ID	WAE-2.2-con-217
Test Object	Client device
Test Case Description	No TLS / WTLS support available
Specification Reference	[WAE] Section 7.2.2
SCR Reference	WAESpec-URI-C-006
Tool	[VSWAP 2.0] with a Gateway with TLS/WTLS disabled
Test Code	No code required
Preconditions	WAP Gateway with TLS/WTLS disabled  WAESpec-ML-C-006 OR WAESpec-ML-C-007
Test Procedure	Attempt to connect to VSWAP
Pass-Criteria	The client device must display an understandable error message to the user indicating that no secure communication method is available.

## 7. IOP Test Cases

None

## Appendix A. Change History

(Informative)

### A.1 Approved Version History

Reference	Date	Description
OMA-ETS-WAE-v2_2	18 Nov 2004	Approved by the TP

### A.2 Draft/Candidate Version History

Document Identifier	Date	Sections	Description
OMA-ETS-WAE-v2_2	23 Feb 2006	2.1, 4, 4.1	Incorporation of CR OMA-IOP-BRO-2006-0029R01-WAE2_2ETS-Update