



Specification Change Document

WAP-174_006-UAPROF-20011002-a

Version 2001-10-08

for

Wireless Application Protocol

WAP-174-UAPROF-20010530-a

WAP-174-UAPROF, WAP-174.100-UAPROF

Version 2001-10-02

A list of errata and updates to this document is available from the WAP Forum™ Web site, <http://www.wapforum.org/>, in the form of SIN documents, which are subject to revision or removal without notice.

© 2001, Wireless Application Protocol Forum, Ltd. All Rights Reserved. Terms and conditions of use are available from the WAP Forum™ Web site (<http://www.wapforum.org/what/copyright.htm>).

© 2001, Wireless Application Forum, Ltd. All rights reserved.

Terms and conditions of use are available from the WAP Forum™ Web site at <http://www.wapforum.org/what/copyright.htm>.

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. You may not use this document in any other manner without the prior written permission of the WAP Forum™. The WAP Forum authorises 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 offered by you.

The WAP Forum™ assumes no responsibility for errors or omissions in this document. In no event shall the WAP Forum be liable for any special, indirect or consequential damages or any damages whatsoever arising out of or in connection with the use of this information.

WAP Forum™ members have agreed to use reasonable endeavors to disclose in a timely manner to the WAP Forum the existence of all intellectual property rights (IPR's) essential to the present document. The members do not have an obligation to conduct IPR searches. This information is publicly available to members and non-members of the WAP Forum and may be found on the "WAP IPR Declarations" list at <http://www.wapforum.org/what/ipr.htm>. Essential IPR is available for license on the basis set out in the schedule to the WAP Forum Application Form.

No representations or warranties (whether express or implied) are made by the WAP Forum™ or any WAP Forum member or its affiliates regarding any of the IPR's represented on this 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.

This document is available online in PDF format at <http://www.wapforum.org/>.

Known problems associated with this document are published at <http://www.wapforum.org/>.

Comments regarding this document can be submitted to the WAP Forum™ in the manner published at <http://www.wapforum.org/>.

Contents

| | |
|--|----------|
| 1. SCOPE..... | 4 |
| 2. NOTATION | 4 |
| 3. SCR UPDATE | 5 |
| 3.1 CHANGE CLASSIFICATION | 5 |
| 3.2 CHANGE SUMMARY..... | 5 |
| 3.3 CHANGE DESCRIPTION..... | 5 |
| APPENDIX A.7: STATIC CONFORMANCE REQUIREMENTS | 5 |
| 1.1 CLIENT..... | 5 |
| 1.2 STRUCTURE AND ENCODING OF HEADER FIELDS..... | 6 |
| 1.3 GATEWAY | 6 |
| 1.4 SCHEMAS..... | 8 |

1. Scope

This document provides changes and corrections to the following document files:

- WAP-174-UAPROF-20010530-a
- WAP-174_100-UAPROF

It includes changes from the following change requests:

- CR-UAPROF-ERICSSON-20011002

2. Notation

In the subsections describing the changes new text is underlined. Removed text has ~~striketrough~~ marks. The presented text is copied from the specification. Text that is not presented is not affected at all. The change descriptions may also include editor's notes similar to the one below. The notes are not part of the actual changes and must not be included in the changed text.

Editor's note: Framed notes like these only clarify where and how the changes shall be applied.

3. SCR Update

3.1 Change Classification

Class 2 – Bug Fixes

3.2 Change Summary

This SCD fixes bugs in the UAProf SCR.

3.3 Change Description

The current UAProf SCR includes some errors. This CR addresses issues raised by the Open Group.

Appendix A.7: Static Conformance Requirements

1.1 Client

1.1.1 Binary encoding

| Item | Function | Reference | Status | Requirement |
|---------------|------------------|-----------|--------|--|
| WAG-UA-CB-001 | Profile encoding | 8 | O | MCF: WBXML-20000306 AND MCF: WBXML-20000306 |

1.1.2 Protocol

| Item | Function | Reference | Status | Requirement |
|---------------|---|-----------|--------|---|
| WAG-UA-CP-001 | Profile header in WSP Connect | 9.3.1 | M | MCF:WSP- AND MSF:WSP |
| WAG-UA-CP-002 | Behaviour on missing Profile-warning in response | 9.3.1 | M | MCF:WSP- AND MSF:WSP |
| WAG-UA-CP-003 | Order of request and session headers | 9.3.2 | M | MCF:WSP- AND MSF:WSP |
| WAG-UA-CP-004 | Does the client comply with the rules in [14] and [16]? | 9.4 | M | MCF:WSP- AND MSF:WSP |
| WAG-UA-CP-005 | Use of standard WSP headers | 5.1 | M | MCF:WSP- AND |

| | | | | |
|---------------|---------------------------------|-------|---|--|
| | | | | MSF:WSP |
| WAG-UA-CP-006 | Information part of the CPI | 5.1 | M | MCF:WSP AND MSF:WSP |
| WAG-UA-CP-007 | Additonal headers with requests | 9.1.2 | O | MCF:WSP AND MSF:WSP |

1.2 Structure and encoding of header fields

| Item | Function | Reference | Status | Requirement |
|---------------|--|-----------|--------|--|
| WAG-UA-CS-001 | Does the Profile header match the production rule [1]? | 9.2 | M | MCF:WSP AND MSF:WSP |
| WAG-UA-CS-002 | Does the Profile-Diff header match the production rule [4]? | 9.2.2 | M | MCF, MSF:WSP AND MCF, MSF: WBXML- 20000306 |
| WAG-UA-CS-003 | Does the Profile-warning header match the production rule [8]? | 9.2.3 | M | MSF:WSP |

1.3 Gateway

1.3.1 Protocol

| Item | Function | Reference | Status | Requirement |
|----------------------|---|-----------|--------|--------------------------------------|
| WAG-UA-GP-001 | Does the gateway comply with the rules in [15]? | 9.3.1 | M | MSF:WSP |
| WAG-UA-GP-002 | Does the gateway comply with the rules in [17]? | 9.3.2 | M | MSF:WSP |
| WAG-UA-GP-003 | Does the gateway comply with the rules in [18]? | 9.3.2 | M | MSF:WSP |
| WAG-UA-GP-004 | Does the gateway comply with the rules in [19]? | 9.3.1 | M | MSF:WSP |
| WAG-UA-GP-005 | Does the gateway comply with the rules in [20]? | 9.3.3 | M | MSF:WSP |
| WAG-UA-GP-006 | Does the gateway comply with the rules in [21]? | 9.3.3 | M | MSF:WSP |
| WAG-UA-GP-007 | Caching of Profile and Profile-Diff headers | 9.1.2 | O | MSF: WAESpec- 20000219 |

| | | | | |
|---------------|--|-------|---|--|
| WAG-UA-GP-008 | References from headers | 9.1.3 | O | MSF: WAESpec- 20000219 |
| WAG-UA-GP-009 | Transmission of multiple profiles in one header | 9.1.3 | O | MSF: WSP AND MSF: WBXML- 20000306 |
| WAG-UA-GP-010 | Encoding of the Profile section in Profile-Diff headers | 9.1.3 | M | MSF: WBXML- 20000306 |
| WAG-UA-GP-011 | Encoding of the Profile in production [7] | 9.1.3 | M | MSF: WBXML- 20000306 |
| WAG-UA-GP-012 | If the origin server responds with a Profile-warning header with the value 100 (ok), does the gateway forward it to the client device? | 9.3.1 | M | MSF: WAESpec- 20000219 |

1.3.2 Decoder behaviour

| Item | Function | Reference | Status | Requirement |
|---------------|---|-----------|--------|-------------------------------------|
| WAG-UA-GD-001 | Does the decoder disregard the encoding means applied to a markup construct? | 8.2.3 | M | MCF: WBXML- 20000306 |
| WAG-UA-GD-002 | Does the decoder treat a tag or attribute name encoded with a single-byte token and a tag or attribute name encoded using the LITERAL global token as equivalent if the resulting strings are equivalent? | 8.2.3 | M | MCF: WBXML- 20000306 |

1.3.3 Header Translation

| Item | Function | Reference | Status | Requirement |
|----------------------|--|-----------|--------|--|
| WAG-UA-GH-001 | Does the WAP gateway forward WSP requests as HTTP requests [WAE]? | 9.3.3 | M | MSF: WAEOverviewSpec- 19991104 |
| WAG-UA-GH-002 | Does the gateway forward all CC/PP-WSP headers as CC/PP-HTTP headers in accordance with the rules in section 9.3.3? | 9.3.3 | M | MSF: WAESpec- 20000219 AND MSF:CCPPex |
| WAG-UA-GH-003 | Does the gateway insert additional profile information into the request? | 9.3.3 | O | |
| WAG-UA-GH-004 | If the gateway inserts additional profile information into the request, is that information inserted at the end of the | 9.3.3 | M | MSF:CCPPex |

| | | | | |
|---------------|--|-------|---|--|
| | Profile as either a URL or a dynamically generated Profile-Diff header in accordance with [CC/PPex]? | | | |
| WAG-UA-GH-005 | Does the gateway introduce a profile (and, if necessary, Profile-Diff header) for clients whose WSP session has no cached Profile or Profile-Diff headers? | 9.3.3 | O | |

1.4 Schemas

| Item | Function | Reference | Status | Requirement |
|---------------------|---|-----------|--------|--------------------|
| WAG-UA-S-001 | Does the schema correspond to a vocabulary specified in conformity with the RDF standard? | 7.1 | M | MCF:RDF |
| WAG-UA-S-002 | Does a unique URI serve as an unambiguous identifier for the vocabulary? | 7.1 | M | |
| WAG-UA-S-003 | Does the schema consist of at least one component? | 7.1 | M | MCF:RDF |
| WAG-UA-S-004 | Does each component in said schema describe a set of attributes within one or more description blocks? | 7.1 | M | MCF:RDF |
| WAG-UA-S-005 | Do all components in the schema have the same schema structure (layout)? | 7.1 | M | |
| WAG-UA-S-006 | Is every component in the schema an object of the type Class? | 7.1 | M | |
| WAG-UA-S-007 | Does each component contain a subordinate description block for default attributes? | 7.1 | O | |
| WAG-UA-S-008 | Are default attributes described within the Default description block? | 7.1 | M | |
| WAG-UA-S-009 | Are descriptions to override default values included in the component description, but outside the Default description block? | 7.1 | M | |

1.4.1 Attributes

| Item | Function | Reference | Status | Requirement |
|---------------|---|-----------|--------|--------------------|
| WAG-UA-SA-001 | Does each profile attribute belong to only one component in the schema? | 7.3 | M | MCF:RDF |
| WAG-UA-SA-002 | Is a domain constraint (rdfs:domain) used to describe the attribute-component relationship in the schema? | 7.3 | M | MCF:RDF |
| WAG-UA-SA-003 | Is each profile attribute defined using a name and value pair syntax? | 7.3 | M | |
| WAG-UA-SA-005 | Is every attribute description within an RDF description embedded inline to denote the value, or expressed as an RDF resource? | 7.3 | M | |
| WAG-UA-SA-006 | Are all multi value and composite attributes described as RDF resources? | 7.3 | M | MCF:RDF |
| WAG-UA-SA-007 | For all cases when lists of values are associated with given attributes, are RDF containers (Bag or sequence) used? | 7.3 | M | MCF:RDF |
| WAG-UA-SA-008 | <p>Is the description of the attribute within the Default tag resolved first?</p> <p>Do other descriptions of the attribute override the default description?</p> <p>Is the ultimate value of the attribute determined by the resolution rules for that attribute?</p> <p>(see section 7.3 (<i>Locked, Override, Append</i>))</p> | 7.3 | M | |
| WAG-UA-SA-010 | Does the attribute follow the naming conventions defined in RDF, and the RDF schema? | 7.3 | M | MCF:RDF |

1.4.2 Profile

| Item | Function | Reference | Status | Requirement |
|---------------|--|-----------|--------|--------------------|
| WAG-UA-SP-001 | Is the root node identified with an invariant node name? | 7.4 | M | MCF:RDF |
| WAG-UA-SP-002 | Does the profile contain one or more | 7.4 | M | MCF:RDF |

| | | | | |
|---------------|---|-----|---|--------------------|
| | attributes identified in the base vocabulary? | | | |
| WAG-UA-SP-003 | Are the component instances of the components identified in the schema? | 7.4 | M | MCF:RDF |
| WAG-UA-SP-004 | Do all profile parsers parse the profile based on the component? | 7.4 | M | MCF:RDF |

1.4.3 UAProf Schema

| Item | Function | Reference | Status | Requirement |
|---------------|---|-----------|--------|--------------------------------|
| WAG-UA-SC-001 | Is the schema expressed in RDF and encoded in XML? | 7.5 | M | MCF:XML AND MCF:RDF |
| WAG-UA-SC-002 | Does the schema include semantic descriptions of all attributes identified in the vocabulary? | 7.5 | M | |

1.4.4 Schema Extensions

| Item | Function | Reference | Status | Requirement |
|---------------|---|-----------|--------|---|
| WAG-UA-SE-001 | Does the extended attributes defer from using attribute names that are reserved from future use by the base vocabulary as listed in appendix A.5? | 7.7 | M | |
| WAG-UA-SE-002 | Is the new schema/vocabulary uniquely identified using a well-defined XML namespace? | 7.7 | M | MCF:XML |
| WAG-UA-SE-003 | Are the attributes (names and semantics) different in all cases in the new schema when compared to the base vocabulary. | 7.7 | M | |
| WAG-UA-SE-005 | Has the CC/PP document been expressed using the abbreviated syntax? | 7.7 | O | MCF:RDF |
| WAG-UA-SE-006 | Are control characters and binary bytes being encoded in conformance with XML syntax specifications? | 7.7 | M | MCF:XML AND MCF:WBXML-20000306 |
| WAG-UA-SE-007 | Do all components and attributes start with an upper case character? | 7.7 | M | |
| WAG-UA-SE-008 | Are all multiple word names described as one word, with the first letter of the second word in upper case? | 7.7 | M | MCF:RDF |

| | | | | |
|---------------|---|-------|---|--|
| WAG-UA-SE-009 | Are all multiple (or single) word names free of any separator or underscore characters? | 7.7 | M | |
| WAG-UA-SE-010 | Are all boolean values described with "Yes" or "No"? | 7.7 | M | |
| WAG-UA-SE-011 | Is the schema free from cyclic references (URIs)? | 7.7 | M | |
| WAG-UA-SE-014 | Does the schema allow for the meaningful introduction of future device capabilities into the profile? | 7.7.1 | M | |
| WAG-UA-SE-015 | Is the attribute or attributes included in a component uniquely defined? | 7.7.1 | M | |
| WAG-UA-SE-016 | Does the schema for new components follow the general schema layout for the core profile components? | 7.7.1 | M | |
| WAG-UA-SE-017 | Does the nested description for each component incorporate a subordinate description block to identify default attributes, preferably referenced by a resource URI? | 7.7.1 | M | |
| WAG-UA-SE-018 | Are all overrides or modifications to the default descriptions made outside the Default subordinate block? | 7.7.1 | M | |

1.4.5 UAProf new attributes

| Item | Function | Reference | Status | Requirement |
|---------------|---|-----------|--------|--------------------|
| WAG-UA-SU-002 | Are the names used to define/represent the attributes unique within the namespace? | 7.7.2 | M | |
| WAG-UA-SU-004 | Are the values of all attributes expressed as strings or RDF resources? | 7.7.2 | O | MCF:RDF |
| WAG-UA-SU-005 | Are all values that are complex data types expressed as RDF containers? | 7.7.2 | M | |
| WAG-UA-SU-006 | Is the rdf:resource construct used, where appropriate, to indicate to the RDF parser that the value of an attribute is indeed a resource and not a literal? | 7.7.2 | M | |
| WAG-UA-SU-007 | Have rules for resolving multiple descriptions of an attribute been specified as part of the semantics? | 7.7.2 | M | |

| | | | | |
|----------------------|--|--------------|---|--------------------|
| WAG-UA-SU-008 | Does the rule specify a <i>locked</i> , <i>override</i> , or <i>append</i> treatment for value resolution? | 7.7.2 | O | |
| WAG-UA-SU-009 | If no rule has been specified as said above, is a default rule of Override assumed for the attribute? | 7.7.2 | M | |
| WAG-UA-SU-010 | Does the use of escape control characters and binary bytes conform to the XML syntax? | 7.7.2 | M | MCF:XML |

1.4.6 Additional tokens

| Item | Function | Reference | Status | Requirement |
|----------------------|---|-----------|--------|-------------|
| WAG-UA-ST-001 | Is there a component defined for each user agent or application that defines properties for use in the user agent profile? | 8.1.4 | M | |
| WAG-UA-ST-002 | For every component defined, is the name of that component globally unique? | 8.1.4 | M | |
| WAG-UA-ST-003 | For every component defined, is there a series of token table code pages containing the properties from its component? | 8.1.4 | O | |
| WAG-UA-ST-004 | For every such code page, is there at least two properties defined: one in the "Tag" space, and one in the "Attribute" space? | 8.1.4 | O | |
| WAG-UA-ST-005 | Are the attributes listed in each page? | 8.1.4 | O | |
| WAG-UA-ST-006 | Are any well-known values for the properties inserted into the "Attribute" page? | 8.1.4 | O | |

1.4.7 XML Namespace

| Item | Function | Reference | Status | Requirement |
|---------------|--|-----------|--------|--------------------------------|
| WAG-UA-SX-001 | Does the WBXML encoder convert the document's chosen prefix to the prefix defined for that namespace in table 8.1, when it encounters a namespace declaration that matches one of the allowed namespaces and its prefix does | 8.2.1 | M | MCF: WBXML-20000306 |

| | | | | |
|---------------|--|-------|---|--|
| | not match the defined prefix. | | | |
| WAG-UA-SX-002 | Does the encoder, when it encounters a namespace other than those defined here, encode all elements from that namespace using literal tags? | 8.2.1 | M | |
| WAG-UA-SX-003 | Does the encoder, when it encounters a namespace other than those defined here, encode all attribute names for elements defined in that namespace using literal names? | 8.2.1 | M | |
| WAG-UA-SX-004 | Does the encoder, when it encounters a namespace other than those defined here, preserve the namespace prefix in the encoding of the tags and attribute names? | 8.2.1 | M | |
| WAG-UA-SX-005 | Does the encoder, when it encounters a namespace other than those defined here, preserve all namespace declarations (instances of the attribute xmlns)? | 8.2.1 | M | |

1.4.8 Document validation

| Item | Function | Reference | Status | Requirement |
|----------------|---|-----------|--------|--------------------|
| WAG-UA-SD-001 | Does the process of tokenizing a Profile document verify that the document is well-formed according to [XML]? | 8.2.2 | M | MCF:XML |
| WAG-UA- SD-002 | Does the processor allow encoding only of well-formed Profile documents? | 8.2.2 | M | |
| WAG-UA- SD-003 | Does the processor raise an error when encountering documents that are not well-formed Profile documents? | 8.2.2 | O | |

1.4.9 Profile Header

| Item | Function | Reference | Status | Requirement |
|----------------|--|-----------|--------|--|
| WAG-UA- SH-001 | Does the syntax of the Profile header conform to the production [1]? | 9.2.1 | M | MCF:WSP |
| WAG-UA- SH-002 | Does the syntax of the Profile-Diff header conform to the production of [4]? | 9.2.2 | M | MCF:WSP AND MCF: WBXML-20000306 |
| WAG-UA- SH-003 | Is the CC/PP profile specified in [7] encoded using WBXML as specified in | 9.2.2 | O | |

| | | | | |
|----------------|---|-------|---|--|
| | section 8? | | | |
| WAG-UA- SH-004 | Does the syntax of the Profile warning header conform to the production of [8]? | 9.2.3 | M | |