



Specification Information Note
WAP-174_003-UAPROF-20010208-a
Version 08-Feb-2001

for

Wireless Application Protocol
WAP-174-UAPROF-19991110-a
User Agent Profiling Specification
Version 10-Nov-1999

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1. Scope

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

- WAP-174-UAPROF-19991110-a
- WAP-174_100-UAPROF-a

It includes changes from the following change requests:

CR-UAPROF-NOKIA-3.DOC, Ericsson-CR.doc, CR-UAPROF-NOKIA-4.doc, CR-UAPROF-NOKIA-5.doc, CR-UAPROF-NOKIA-6.doc, WTAI Libraries (HP CR Note: 10/10/00), CR-UAProf-SEC-20001108-BinaryToken.html

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. Remove ambiguities in the numbering of SCR clauses

3.1 Change Classification

Class 3 – Clerical Corrections

3.2 Change Summary

Remove ambiguities in the numbering of SCR clauses.

3.3 Change Description

A.8 Static Conformance Requirements

1.5.3 UAProf Schema

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

4. Remove requirements from the SCR that are not applicable

4.1 Change Classification

Class 3 – Clerical Corrections

4.2 Change Summary

Remove requirements from the SCR that are not applicable.

4.3 Change Description

A.8 Static Conformance Requirements

1.5.1 Attributes

Item	Function	Reference	Status
WAG-UA-SA-004	Is every part of the RDF property description unique and unambiguous in both semantics and value?	7.3	M
WAG-UA-SA-009	Does the attribute closely represent the semantics of the capability or the characteristics being represented?	7.3	M

1.5.4 Schema Extensions

Item	Function	Reference	Status
WAG-UA-SE-004	Has the schema designer visualized the RDF document as an RDF graph, and verified the intuitions against common RDF tools?	7.7	M
WAG-UA-SE-012	Do the components used in the standardized base vocabulary meet the needs of a majority of the current content providers?	7.7.1	M

1.5.5 UAProf new attributes

Item	Function	Reference	Status
WAG-UA-SU-001	Are the attributes described in the vocabulary atomic and semantically unambiguous?	7.7.2	M
WAG-UA-SU-003	Has the use of complex data types, such as containers, value ranges, constraints, and units been minimized?	7.7.2	M

5. Eliminate SCRs that are out of Scope

5.1 Change Classification

Class 3 – Clerical Corrections

5.2 Change Summary

Eliminate SCRs that are out of scope of the specification and clarify the wording of the CC/PP over WSP specification section.

5.3 Change Description

9.3 Protocol Procedures

9.3.1 Session Establishment

The following procedure is used to establish a WSP session that sees User Agent Profiles:

[14.] To indicate support for User Agent Profiles, the client MUST include the Profile header in the connect message.

~~[15.] If the server supports User Agent Profiles, it MUST respond with the Profile Warning header with the warning code set to 100 ("OK").~~

[15] If the server responds with the Profile Warning Header (set to warning code 100), the gateway MUST forward this to the client.

[16.] If the client does not receive the Profile-Warning header with the warning code 100, it MUST NOT send any additional User Agent Profile during the WSP session.

During the session, the client can use the Resume procedure to update the session header [WAE].

Session headers are cached in the ~~server~~ gateway for the duration of the WSP session [WSP]. When the gateway generates HTTP request messages, it combines the headers in the session's cache, according to the rules in section 9.3.2.

A.7 Static Conformance Requirements

1.4 Origin Server

1.4.1 Protocol

Item	Function	Reference	Status
WAG-UA-OP-001	Does the origin server (that supports UAProf) respond with the Profile warning header with the warning code set to 100 ("OK")?	9.3.1	M

1.3 Gateway

1.3.1 Protocol

<u>Item</u>	<u>Function</u>	<u>Reference</u>	<u>Status</u>
<u>WAG-UA-GP-012</u>	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

1.4.2 Profile

<u>Item</u>	<u>Function</u>	<u>Reference</u>	<u>Status</u>
WAG-UA-OR-001	Does the origin server application parse the complete profile before using a set of attributes?	7.3	M

6. Eliminate SCRs that are out of scope.

6.1 Change Classification

Class 3 – Clerical Corrections

6.2 Change Summary

Eliminate SCRs that are out of scope of the specification and clarify the wording of the CC/PP over WSP specification section.

6.3 Change Description

Clarify the meaning of requirements from the SCR of UAProf.

Proposed Changes:

7.1 Schema Layout

Definition of a CC/PP schema is governed by the following rules:

The schema ~~MUST be associated with~~ correspond to a ~~well-defined~~ vocabulary which MUST be specified in conformity with the RDF standard and for which a unique URI (~~identified such as prf~~) in the XML namespace MUST serve as an unambiguous identifier ~~for the particular vocabulary~~.

A.7 Static Conformance Requirements

1.5 Schemas

Item	Function	Reference	Status
WAG-UA-S-001	Is Does the schema associated with correspond to a well-defined vocabulary specified in conformity with the RDF standard?	7.1	M

1.1.2 Protocol

Item	Function	Reference	Status
WAG-UA-CP-005	USE OF STANDARD WSP HEADERS	5.3 5.1	M
WAG-UA-CP-006	Information part of the CPI	5.3 5.1	M

7. Eliminate SCRs that are out of Scope

7.1 Change Classification

Class 3 – Clerical Corrections

7.2 Change Summary

Eliminate SCRs that are out of scope of the Specification.

7.3 Change Description

1.5.4 Schema Extensions

Item	Function	Reference	Status
WAG-UA-SE-013	Do the designers of new schemas add those attributes to these defined components (<i>HardwarePlatform</i>, <i>SoftwarePlatform</i>, <i>NetworkCharacteristics</i>, <i>WAPCharacteristics</i>, <i>BrowserUA</i>)?	7.7.1	M

8. Clarify description of WTAILibraries attribute

8.1 Change Classification

Class 3 – Clerical Corrections

8.2 Change Summary

Clarify description of WTAILibraries attribute for backward compatibility purposes.

8.3 Change Description

7.3 User Agent Profile and Base Vocabulary

```
<?xml version="1.0"?>
<rdf:RDF xmlns:rdf = "http://www.w3.org/TR/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs = "http://www.w3.org/1999/PR-rdf-schema-19990303#"
  xmlns:prf="http://www.wapforum.org/UAPROF/ccppschem-20000405#">

  <!-- ***** -->

  <!-- ***** Component: WapCharacteristics ***** -->

[...]
```

```
<rdf:Description ID="WtaiLibraries">

  <rdf:type rdf:resource="http://www.w3.org/TR/PR-rdf-schema#Property"/>
  <rdf:type rdf:resource=" http://www.w3.org/TR/PR-rdf-schema#Bag"/>
  <rdfs:domain rdf:resource="#WapCharacteristics"/>
  <rdfs:comment>

    Description: List of WTAI network common and network specific
                  libraries supported by the device that are URI accessible.
                  Property value is a list of WTA library names, where each
                  item in the list list is a library name as specified by
                  "WAP WTAI" and its addendums. List items are separated by
                  white space. Any future addendums to "WAP WTAI" should be
                  reflected in the values of this property.

    Type:         Literal
    Resolution:    Locked
    Examples:      "WTAVoiceCall", "WTANetText", "WTAPhoneBook",
                  "WTACallLog", "WTAMisc", "WTAGSM", "WTAIS136", "WTAPDC"

  </rdfs:comment>
</rdf:Description>
```

[...]
</rdf:RDF>

A.1 Summary of User Agent Profile Schema

Attribute	Description	Resolution Rule	Type	Sample Values
Component: WapCharacteristics				
WtaiLibraries	List of WTAI network common and network specific libraries supported by the device that are URI accessible	Locked	Literal (bag)	"WTAVoiceCall", "WTANetText", "WTAPhoneBook", "WTACallLog", "WTAMisc", "WTAGSM", "WTAIS136", "WTAPDC"

9. Clarification of the “ScreenSizeChar” attribute

9.1 Change Classification

Class 3 – Clerical Corrections

9.2 Change Summary

Clarification of the description of the “ScreenSizeChar” attribute.

9.3 Change Description

A.1 Summary of User Agent Profile Schema

<u>Attribute</u>	<u>Description</u>	<u>Resolution Rule</u>	<u>Type</u>	<u>Sample Values</u>
Component: HardwarePlatform				
BitsPerPixel	The number of bits of color or grayscale information per pixel	Override	Number	"2", "8"
BluetoothProfile	Supported Bluetooth profiles as defined in the Bluetooth specification	Locked	Literal (Bag)	"dialup", "lanAccess"
ColorCapable	Whether the device display supports color	Override	Boolean	"Yes", "No"
ScreenSizeChar	Size of the device's screen in units of characters. <u>(Number of characters per row)x(Number of rows). In calculating this attribute use the largest character in the device's default font.</u>	Locked	Literal	"12x4", "16x8"

7.5 User Agent Profile Schema and Base Vocabulary

```
<?xml version="1.0"?>
<rdf:RDF xmlns:rdf = "http://www.w3.org/TR/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs = "http://www.w3.org/1999/PR-rdf-schema-19990303#"
  xmlns:prf="http://www.wapforum.org/UAPROF/ccpps-schema-20000405#">
```

```
<!-- ***** -->
<!-- ***** Component: HardwarePlatform ***** -->
[...]
```

```
<rdf:Description ID="ScreenSizeChar">
  <rdf:type rdf:resource="http://www.w3.org/TR/PR-rdf-schema#Property"/>
  <rdfs:domain rdf:resource="#HardwarePlatform"/>
  <rdfs:comment>
    Description:  Size of the device's screen in units of characters,
                  composed of the screen width and screen height. The
                  device's standard font should be used to determine
                  this property's value. (Number of characters per
                  row)x(Number of rows). In calculating this attribute use the
                  largest character in the device's default font.
    Type:        Dimension
    Resolution:  Locked
    Examples:    "12x4", "16x8"
  </rdfs:comment>
</rdf:Description>

[. . .]
</rdf:RDF>
```