A Wireless Application Protocol Specification Information Note for:

Wireless Telephony Application Specification
WAP-169-WTA
Version 07-Jul-2000

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1. Scope

This Specification Information Note (SIN) covers changes against the 07-Jul-2000 version of the WTA specification. These changes specifically address two recommendations given at the Architecture Consistency review of the most recent WTA SIN, WAP-169_100-WTA-20000601-A. The two recommendations are:

1. For all the WTA related content types, specify a versioning mechanism that can be used during content negotiation (e.g., in the HTTP Accept header) similar or identical to the way WML does it (i.e., using a parameter of the media type).

2. The trust for the WTA server must be provisioned in some way and not inferred from the Certificating Authority that issued the WTA Server’s certificate.

The changes included in this SIN are:

• Removed references to WPKI specification since there is no approved version of the WPKI specification for the June 2000 Conformance Release.

• Added normative reference to RFC2046 for the definition of the charset parameter

• Added informative reference to RFC2376 for the encoding of the text / media types

• Specified the negotiation mechanism for WTA-WML content type

• Specified the negotiation mechanism for the WTA Channel content type
2. Document Status

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2.2 Errata

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

2.3 Comments

Comments regarding this document can be submitted to the WAP Forum in the manner published at http://www.wapforum.org/.
3. Change 1 Modifications to Section 3

3.1 Change Classification

1 – New Feature, Major Change or Market Effecting Change    [  ]
2 – Bug Fixes                                               [ X]
3 – Clerical Corrections                                    [  ]

3.2 Change Summary
The following changes are made in section 3 of the specification:

- The reference to WAP WPKI specification is removed.
- A reference to RFC2046 is added.
- An informative reference section is added with a reference to RFC2376.

3.3 Change

3. References

3.1 Normative references


3.2 Informative references

4. Change 2 Modifications to section 6

4.1 Change Classification

1 – New Feature, Major Change or Market Effecting Change [    ]
2 – Bug Fixes [ X]
3 – Clerical Corrections [    ]

4.2 Change Summary

In section 6.5 - Available security framework, the reference to Telephony Service Provider Root certificate and the WPKI specification is removed.

4.3 Change

6. WTA security requirements

6.5 Available security framework

A security mechanism is mandatory for WTA. Until a signed content model is available, the security between the client and the WTLS connection end point is ensured using WTLS class 2 with mandatory use of server certificate authentication. The use of a WTLS session is mandatory for WTA services (non-public). For a description of WTLS, see [WTLS].

Using WTLS, any WTA service can be delivered by the trusted telephony service provider (or an entity delegated by the trusted telephony service provider) through a secure pipe from the gateway to the client. WAP gateway to WTA server security is left up to the implementation. For connections over the Internet, SSL/TLS may be used.

The client MUST only allow connections for WTA services to specified (trusted) gateways. This is achieved by using Telephony Service Provider Root certificates. These certificates and their use are described in [WPKI].
5. Change 3 Modifications to section 8

5.1 Change Classification

1 – New Feature, Major Change or Market Effecting Change  [   ]
2 – Bug Fixes  [X ]
3 – Clerical Corrections  [   ]

5.2 Change Summary
In section 8.1.1.2, a definition for the negotiation mechanism for the WTA-WML content type is added.

5.3 Change

8. WTA-WML Content
All WTA services must be written in the WTA-WML language. This markup language is a superset of WML.

8.1 WTA-WML Content Format
This section defines the content format used to represent wta-wml content.

WTA-WML is an application of [XML] version 1.0.

8.1.1 Document Identifiers

Editor’s note: These identifiers have not yet been registered with the IANA or ISO 9070 Registrar

8.1.1.1 SGML Public Identifier
-//WAPFORUM//DTD WTA-WML 1.2//EN

8.1.1.2 WTA-WML Media Type

Textual form:    text/x-wap-wta-wml
Tokenised form: application/x-wap-wta-wmlc

Required parameters: none

Optional parameters: charset and version

The version parameter indicates the WTA-WML version. The value has the format: <major>.<minor> - where major and minor are integers. For example, version=1.2 indicates version 1.2. Should the version parameter not be available, the default version 1.2 applies.

The charset parameter is the same as specified in [RFC2046].

Encoding of the text/x-wap-wta-wml media type follows the same principles as specified for the XML media types in [RFC2376]. Encoding of the application/x-wap-wta-wmlc media type follows the same principles as specified for WBXML in [WBXML], section 5.2.

The media type may be used by WSP/HTTP for content negotiation between the WTA client and server. See [RFC2616].
6. Change 4 - Modifications to section 9

6.1 Change Classification

1 – New Feature, Major Change or Market Effecting Change [ ]
2 – Bug Fixes [X ]
3 – Clerical Corrections [ ]

6.2 Change Summary
In section 9.4.1.1.2, a definition for the negotiation mechanism for the WTA Channel content type is added.

6.3 Change

9 Repository

9.4 Programming the Repository

9.4.1 The Channel Content Format
This section defines the content format used to represent the channel content format.
Channel is an application of [XML] version 1.0.

9.4.1.1 Document Identifiers

Editor’s note: These identifiers have not yet been registered with the IANA or ISO 9070 Registrar

9.4.1.1.1 SGML Public Identifier
-//WAPFORUM//DTD CHANNEL 1.2//EN

9.4.1.1.2 Channel Media Type

Textual form: text/vnd.wap.channel
Tokenised form: application/vnd.wap.channelc

Required parameters: none

Optional parameters: charset and version

The version parameter indicates the Channel version. The value has the format: <major>.<minor> - where major and minor are integers. For example, version=1.2 indicates version 1.2. Should the version parameter not be available, the default version 1.2 applies.

The charset parameter is the same as specified in [RFC2046].

Encoding of the text/vnd.wap.channel media type follows the same principles as specified for the XML media types in [RFC2376]. Encoding of the application/vnd.wap.channelc media type follows the same principles as specified for WBXML in [WBXML], section 5.2.

The media type may be used by WSP/HTTP for content negotiation between the WTA client and server. See [RFC2616].