

# WAP Specification Information Note

## WAP-169\_102-WTA

Version 06-Feb-2001

---

**A Wireless Application Protocol  
Specification Information Note for:**

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

**Notice:**

© Wireless Application Protocol Forum, Ltd. 2001.

Terms and conditions of use are available from the Wireless  
Application Protocol Forum Ltd. Web site  
(<http://www.wapforum.org/what/copyright.htm>).

**Disclaimer:**

This document is subject to change without notice.

---

# Contents

<b>1. SCOPE.....</b>	<b>3</b>
<b>2. DOCUMENT STATUS.....</b>	<b>4</b>
2.1 COPYRIGHT NOTICE .....	4
2.2 ERRATA.....	4
2.3 COMMENTS .....	4
<b>3. CHANGE 1 MODIFICATIONS TO ANNEX 2 – STATIC CONFORMANCE REQUIREMENTS.....</b>	<b>5</b>
3.1 CHANGE CLASSIFICATION .....	5
3.2 CHANGE SUMMARY .....	5
3.3 CHANGE .....	5

---

# 1. Scope

This Specification Information Note (SIN) covers changes against the 07-Jul-2000 version of the WTA specification.

All WAP specifications shall indicate their dependencies to other WAP specifications as explained in the document WAP-DID-ConfReqSpec, Proposed Version 15-Sep-2000. That document also defines the exact syntax to be used in the SCR. This SIN describes how the SCR section in the WTA specification needs to be updated with respect to dependencies and appropriate syntax.

---

## 2. Document Status

This document is available online in the following formats:

PDF format at <http://www.wapforum.org/>.

### 2.1 Copyright Notice

© Copyright Wireless Application Forum Ltd, 2001.

Terms and conditions of use are available from the Wireless Application Protocol Forum Ltd. web site at <http://www.wapforum.org/docs/copyright.htm>.

### 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 Annex 2 – Static Conformance Requirements

### 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 Annex 2 – Static Conformance Requirements:

- Requirement columns are added in all the SCR tables. The requirement column should express other features required by this feature independent of whether those other features are mandatory or optional. If there are no requirements for a feature the column must be left empty.
- The Item-, reference- and status columns are updated according to new syntax.
- All descriptive text is removed from Annex 2- Static Conformance Requirements.
- Items previously missing despite normative statements in the specification have been added.
- Item WTA-SEC-C-010 has been removed due to a previously approved change in the normative text.
- Editorial changes.

### 3.3 Change

## Annex 2 - Static Conformance Requirements

~~This static conformance clause defines a minimum set of features that should be implemented to provide a WTA framework. A feature can be optional or mandatory. Whether or not the feature applies at all is in some cases dependent on the status of another item e.g. the WTA\_IF\_C003 feature is applicable and mandatory only if GSM is supported. If optional features have labels (O.<n>), support of at least one in the group of options labelled by the same numeral is required.~~

### A 2.1 Client features

#### A 2.1.1 Major Capabilities

##### Device Network Compliance

~~These items are only used as predicates and do not state any requirements on the implementation.~~

Item	Functionality	Reference	Status	Requirement
<a href="#">WTA-GSM-C-001</a>	GSM <a href="#">technology</a> compliant device	-	O	<a href="#">WTA-IF-C-003</a>

Item	Functionality	Reference	Status	Requirement
<a href="#">WTA-ANSI136-C-001</a>	ANSI 136 <del>technology</del> compliant device	-	O	<a href="#">WTA-IF-C-004</a>
<a href="#">WTA-PDC-C-001</a>	PDC <del>technology</del> compliant device	-	O	<a href="#">WTA-IF-C-005</a>

### Device MMI

This item is only used as a predicate and does not state any requirement on the implementation.

Item	Functionality	Reference	Status	Requirement
<a href="#">WTA-MMI-C-001</a>	Default MMI functionality	-	O	<a href="#">WTA-EV-C-010</a> AND <a href="#">WTA-EV-C-011</a>

### WTA Interface

Item	Functionality	Reference	Status	Requirement
<del>WTA-IF-C-001</del>	Public WTA Library	[WTAI]	M	<del>WTAI-P-C-001</del> AND <del>WTAI-INTP-C-001</del>
<del>WTA-IF-C-002</del>	Network Common WTA Libraries	[WTAI]	M	<del>WTAI-CV-C-001</del> AND <del>WTAI-CT-C-001</del> AND <del>WTAI-CP-C-001</del> AND <del>WTAI-CL-C-001</del> AND <del>WTAI-CM-C-001</del> AND <del>WTAI-INTN-C-002</del>
<del>WTA-IF-C-003</del>	Network Specific WTA Library for GSM	[WTAI <del>IS136</del> ] <del>IS136</del>	<del>GSM:M</del> <del>Q</del>	<del>WTAIGSM:MCF</del>
<del>WTA-IF-C-004</del>	Network Specific WTA Library for ANSI 136	[WTAI <del>IS136</del> ] <del>IS136</del>	<del>ANSI-136:M</del> <del>Q</del>	<del>WTAIIS136:MCF</del>
<del>WTA-IF-C-005</del>	Network Specific WTA Library for PDC	[WTAI <del>PDC</del> ] <del>PDC</del>	<del>PDC:M</del> <del>Q</del>	<del>WTAIPDC:MCF</del>

### WTA User Agent

Item	Functionality	Reference	Status	Requirement
<del>WTA-UA-C-001</del>	WTA user-agent	5	M	<del>WAE:MCF</del> AND <del>WAE-C-018</del>

## A 2.1.2 Security Requirements

Item	Functionality	Reference	Status	Requirement
<a href="#">WTA-SEC-C-001</a>	Only authorised WTA services	6	M	<a href="#">WTLS:MCF</a> AND <a href="#">WTLS-C060</a> AND

Item	Functionality	Reference	Status	Requirement
<del>WTA_SEC_C001</del>	are allowed to execute.			<a href="#">WTLS-C100</a>
<a href="#">WTA-SEC-C-002</a> <del>WTA_SEC_C002</del>	A WTA session utilises a dedicated, secure port on the WAP Gateway.	6.2	M	<a href="#">WTLS:MCF</a> AND <a href="#">WTLS-C060</a> AND <a href="#">WTLS-C100</a>
<a href="#">WTA-SEC-C-003</a> <del>WTA_SEC_C003</del>	The WTA user-agent only retrieves WTA content within a WTA session.	6.2	M	<a href="#">WTA-UA-C-001</a>
<a href="#">WTA-SEC-C-004</a> <del>WTA_SEC_C004</del>	WTA content received outside a WTA session is discarded.	6.2	M	
<a href="#">WTA-SEC-C-005</a> <del>WTA_SEC_C005</del>	Support for blanket user permission for WTAI function calls.	6.3	M	
<a href="#">WTA-SEC-C-006</a> <del>WTA_SEC_C006</del>	Support for <a href="#">contextsession</a> user permission for WTAI function calls.	6.3	O	
<a href="#">WTA-SEC-C-007</a> <del>WTA_SEC_C007</del>	Support for single action user permission for WTAI function calls.	6.3	M	
<a href="#">WTA-SEC-C-008</a> <del>WTA_SEC_C008</del>	The WTA user-agent allows WTA content only from trusted WAP Gateways.	6.4	M	<a href="#">WTA-UA-C-001</a> AND <a href="#">WTLS:MCF</a> AND <a href="#">WTLS-C060</a> AND <a href="#">WTLS-C100</a> AND
<a href="#">WTA-SEC-C-009</a> <del>WTA_SEC_C009</del>	Support for WTLS Class 2	[WTLS]	M	<a href="#">WTLS:MCF</a> AND <a href="#">WTLS-C060</a> AND <a href="#">WTLS-C100</a>
<del>WTA_SEC_C010</del> <del>WTA_SEC_C010</del>	<del>Only gateways identified by a Trusted Telephony Service Provider certificate will be regarded as trusted gateways.</del>	6.5	<del>M</del>	

## A 2.1.3 State Model

### [WSP Session Services](#)

Item	Function	Reference	Status	Requirement
<a href="#">WTA-SS-C-001</a>	<a href="#">Support for WSP session services over WDP.</a>	<a href="#">7.1</a>	<a href="#">M</a>	<a href="#">WTA-SM-C-001</a> OR <a href="#">WTA-SM-C-002</a>

## Session Management

Item	Functionality	Reference	Status	Requirement
WTA__SM__C_001	Support for WSP connectionless session services over a dedicated WDP port.	7.1	O+	<a href="#">WSP CL C003</a> AND <a href="#">WSP CL C004</a> AND <a href="#">WSP CL C005</a> AND <a href="#">WSP CL C006</a>
WTA__SM__C_002	Support for WSP connection-mode session services over a dedicated WDP port.	7.1	O+	<a href="#">WSP CO C001</a> AND <a href="#">WSP CO C002</a> AND <a href="#">WSP CO C003</a> AND <a href="#">WSP CO C006</a> AND <a href="#">WSP CO C016</a> AND <a href="#">WSP CO C017</a> AND <a href="#">WSP CO C018</a> AND <a href="#">WSP CO C019</a>
WTA__SM__C_003	Information to start up a WTA session is provided by the implementation.	7.1.1	M	
WTA__SM__C_004	The WTA user agent supports multiple simultaneous WTA sessions.	7.1	O	

### Context Management

Item	Functionality	Reference	Status	Requirement
WTA__CM__C_001	WTA stores its context in a single scope.	7.2	M	
WTA__CM__C_002	Context is re-initialised when any of the conditions defined in WML occur.	7.2.1, [WML]	M	<a href="#">WML-11</a>
WTA__CM__C_003	Context is re-initialised and terminated when indicated by the content author.	7.2.1	M	
WTA__CM__C_004	Context is re-initialised as a result of service activation upon a match between a WTA event and a global binding.	7.2.1	M	
WTA__CM__C_005	The WTA user-agent terminates the current context and indicates to the user in case an error is discovered in the content.	7.2.1	M	
WTA__CM__C_006	The WTA user-agent does not handle additional events until the user acknowledges the error or other service is initiated by a global binding.	7.2.1	M	
WTA__CM__C_007	Support for redirecting new	7.2.1	MMI:O	



Item	Functionality	Reference	Status	Requirement
	events to default MMI when the WTA user-agent is waiting for user acknowledgement due to content error.			
WTA_CM_C-008	The WTA user-agent handles calls, event parameters and repository when a newcontext attribute is processed.	7.2.2, [WML]	M	<a href="#">WML-11</a>
WTA_CM_C-009	The WTA user-agent handles variables, navigational history state, content, calls, event parameters and repository when an endcontext function is processed.	7.2.3 [WTAI]	M	<a href="#">WTAI-CMS-C-002</a>
WTA_CM_C-010	Support for WTA user-agent termination after call of an endcontext function.	7.2.3	O	
WTA_CM_C-011	Support for context protection.	[WTAI]	M	<a href="#">WTAI-CMS-C-003</a> AND <a href="#">WTAI-CMS-C-004</a>

#### Event Parameter Management

Item	Functionality	Reference	Status	Requirement
WTA_EPM_C-001	The WTA context retains the actual parameters of the last bound event received.	7.3	M	
WTA_EPM_C-002	The WTA user-agent sets event parameter state.	7.3	M	
WTA_EPM_C-003	Support for storage of at least 10 event parameters and 250 symbols (e.g. characters).	7.3	M	

#### Call State Management

Item	Functionality	Reference	Status	Requirement
WTA_CSM_C-001	Support for management of call modes.	7.5	M	

### A 2.1.4 Repository

Item	Functionality	Reference	Status	Requirement
------	---------------	-----------	--------	-------------

Item	Functionality	Reference	Status	Requirement
WTA- <u>REP</u> -C-001	Support for channel loading based on channel id.	9.1	M	<a href="#">WTA-REP-C-011</a> OR <a href="#">WTA-REP-C-012</a>
WTA- <u>REP</u> -C-002	Support for channel unloading.	9.2	M	<a href="#">WTA-REP-C-011</a> OR <a href="#">WTA-REP-C-012</a>
WTA- <u>REP</u> -C-003	Support for garbage collection.	9.3	M	
WTA- <u>REP</u> -C-004	Garbage collection removes all empty channels.	9.3	M	
WTA- <u>REP</u> -C-005	Garbage collection removes all stale channels.	9.3	M	
WTA- <u>REP</u> -C-006	Garbage collection removes all non-referenced resources.	9.3	M	
WTA- <u>REP</u> -C-007	Support for the Channel Content Format.	9.4.1	M	
WTA- <u>REP</u> -C-008	The channelid attribute of the channel is used to identify services.	9.4.1.2	M	
WTA- <u>REP</u> -C-009	The eventid attribute of the channel is used to establish a global binding for a WTA event.	9.4.1.2	M	
WTA- <u>REP</u> -C-010	Support for channel installation at any time.	9.4.3	M	
WTA- <u>REP</u> -C-011	Support for channel download using response to standard URL request.	9.4.3	O+	
WTA- <u>REP</u> -C-012	Support for channel download using Service Indication.	9.4.3, [SI]	O+	<a href="#">SI:MCF</a>
WTA- <u>REP</u> -C-013	Support for accessing resources in the repository using URLs.	9.5	M	
WTA- <u>REP</u> -C-014	The repository is always checked for requested content before loading it from the network.	9.5	M	

## A 2.1.5 Channel Loading

Item	Functionality	Reference	Status	Requirement
WTA- <u>CHN</u> -C-001	A channel is identified by the channelid attribute during	9.1, 9.2, 9.4.1.2	M	

Item	Functionality	Reference	Status	<a href="#">Requirement</a>
	loading and unloading.			
WTA-CHN-C-002	A resource indicated by a channel is loaded except when already in the repository and both the indicated and the stored resource are equally fresh.	9.1, 9.4.1.5	M	
WTA-CHN-C-003	The success URL, <a href="#">if present</a> , is requested upon successful loading of all resources.	9.1, 9.4.1.2	M	
WTA-CHN-C-004	A channel is activated upon successful reception of response to the success URL.	9.1, 9.4.3.1	M	
WTA-CHN-C-005	The installation process is terminated if any errors occur.	9.4.3.1	M	
WTA-CHN-C-006	The failure URL, <a href="#">if present</a> , is requested if loading fails.	9.1, 9.4.1.2, 9.4.3.1	M	
WTA-CHN-C-007	An error message is presented to the end-user in case of failure and no failure URL is available, or the request for the failure URL fails.	9.1, 9.4.3.1	M	
WTA-CHN-C-008	Channels and resources for which loading failed are discarded.	9.1	M	
WTA-CHN-C-009	The older channel, and its resources, is preserved in case loading of a newer version fails.	9.1	M	

## A 2.1.6 Event Handling

Item	Functionality	Reference	Status	Requirement
WTA-EV-C-001	Network events are transformed to WTA events.	10.1	M	
WTA-EV-C-002	Order of precedence when processing a WTA event.	10.2	M	
WTA-EV-C-003	Support for interruption of a WTA context.	10.2.1	M	
WTA-EV-C-004	Interrupted context is terminated if there is a global binding to the detected event.	10.2.1	M	
WTA-EV-C-005	Interrupted context is terminated if no global binding exists and fallback to standard MMI is used.	10.2.1	<del>MMI</del> :O	
WTA-EV-C-006	Interrupted context is resumed.	10.2.1	O	
WTA-EV-C-007	Support for the use of the WTA-WML onevent element with WTA events to implement temporary event bindings.	10.2, 10.3	M	
WTA-EV-C-008	Support the use of channels to represent global event bindings.	10.2, 10.4	M	
WTA-EV-C-009	Support for event parameters and event parameter referencing using index notation.	10.5	M	
WTA-EV-C-010	Support for fallback handling meaning the ability to forward unbound WTA events to the standard MMI.	10.2, 10.6.1	<del>MMI</del> :M <a href="#">O</a>	
WTA-EV-C-011	Support for fallback handling meaning the ability to forward WTA events to the standard MMI if content loading fails.	10.6.1	<del>MMI</del> :M <a href="#">O</a>	

## A 2.2 Server features

### [A 2.2.1 Client Network Type Support](#)

<a href="#">Item</a>	<a href="#">Function</a>	<a href="#">Reference</a>	<a href="#">Status</a>	<a href="#">Requirement</a>
<a href="#">WTA-GSM-S-001</a>	<a href="#">Supports GSM client</a>	-	<a href="#">O</a>	<a href="#">WTA-IF-S-002</a>
<a href="#">WTA-ANSI136-S-001</a>	<a href="#">Supports ANSI 136 client</a>	-	<a href="#">O</a>	<a href="#">WTA-IF-S-003</a>
<a href="#">WTA-PDC-S-001</a>	<a href="#">Supports PDC client</a>	-	<a href="#">O</a>	<a href="#">WTA-IF-S-004</a>

### [A 2.2.2 WAE features](#)

<a href="#">Item</a>	<a href="#">Function</a>	<a href="#">Reference</a>	<a href="#">Status</a>	<a href="#">Requirement</a>
<a href="#">WTA-WAE-S-001</a>	<a href="#">WAE framework features</a>	<a href="#">5</a>	<a href="#">M</a>	<a href="#">WAE:MSF</a> <a href="#">AND</a> <a href="#">WAE-S-018</a>

### [A 2.2.31 Content Formats](#)

<a href="#">Item</a>	<a href="#">Functionality</a>	<a href="#">Reference</a>	<a href="#">Status</a>	<a href="#">Requirement</a>
<a href="#">WTA-FMT-S-001</a>	Support for WBXML encoding of the WTA-WML Content Format.	8.1.4	M	<a href="#">WBXML:MSF</a>
<a href="#">WTA-FMT-S-002</a>	Support for WBXML encoding of the Channel Content Format.	9.4.1.7	M	<a href="#">WBXML:MSF</a>

### [A 2.2.42 Security Features](#)

<a href="#">Item</a>	<a href="#">Functionality</a>	<a href="#">Reference</a>	<a href="#">Status</a>	<a href="#">Requirement</a>
<a href="#">WTA-SEC-S-001</a>	Support for WTLS Class 2	<a href="#">6.5</a> , [WTLS]	M	<a href="#">WTLS:MSF</a> <a href="#">AND</a> <a href="#">WTLS-S060</a>
<a href="#">WTA-SEC-S-002</a>	<a href="#">A WTA session utilises a dedicated, secure port on the WAP Gateway.</a>	<a href="#">6.2</a>	<a href="#">M</a>	<a href="#">WTLS:MSF</a> <a href="#">AND</a> <a href="#">WTLS-S060</a>

### A 2.2.5 WTAI server features

<u>Item</u>	<u>Function</u>	<u>Reference</u>	<u>Status</u>	<u>Requirements</u>
<a href="#">WTA-IF-S-001</a>	<a href="#">Supports server features of Public and Network Common WTA Libraries</a>	<a href="#">[WTAI]</a>	<a href="#">M</a>	<a href="#">WTAI:MSF</a>
<a href="#">WTA-IF-S-002</a>	<a href="#">Support for server features of WTAI GSM Library</a>	<a href="#">[WTAIGSM]</a>	<a href="#">O</a>	<a href="#">WTAIGSM:MSF</a>
<a href="#">WTA-IF-S-003</a>	<a href="#">Support for server features of WTAI ANSI 136 Library</a>	<a href="#">[WTAIIS136]</a>	<a href="#">O</a>	<a href="#">WTAIIS136:MSF</a>
<a href="#">WTA-IF-S-004</a>	<a href="#">Support for server features of WTAI PDC Library</a>	<a href="#">[WTAIPDC]</a>	<a href="#">O</a>	<a href="#">WTAIPDC:MSF</a>