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1. Scope

Wireless Application Protocol (WAP) is a result of continuous work to define an industry wide specification for developing applications that operate over wireless communication networks. The scope for the WAP Forum is to define a set of specifications to be used by service applications. The wireless market is growing very quickly, and reaching new customers and services. To enable operators and manufacturers to meet the challenges in advanced services, differentiation and fast/flexible service creation WAP defines a set of protocols in transport, session and application layers. For additional information on the WAP architecture, refer to "Wireless Application Protocol Architecture Specification" [WAPARCH].

This document is an addendum to the Wireless Telephony Application Interface (WTAI). While WTAI defines an API that is valid for all supported types of mobile networks, this document outlines functions that are specific to ANSI 136 networks.
2. References

2.1. Normative References


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.

3.2. Definitions

**WMLScript** - a scripting language used to program the mobile device. WMLScript is an extended subset of the JavaScript™ scripting language.

3.3. Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>API</td>
<td>Application Programming Interface</td>
</tr>
<tr>
<td>ANSI136</td>
<td>TDMA Cellular/PCS – Radio Interface – Mobile Station – Base Station Compatibility Standard</td>
</tr>
<tr>
<td>RFC</td>
<td>Request For Comments</td>
</tr>
<tr>
<td>WAP</td>
<td>Wireless Application Protocol</td>
</tr>
<tr>
<td>WTA</td>
<td>Wireless Telephony Applications</td>
</tr>
<tr>
<td>WTAI</td>
<td>Wireless Telephony Applications Interface</td>
</tr>
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</table>
4. Introduction

The WAP WTAI features provide the means to create Telephony Applications, using a WTA user-agent with the appropriate WTAI function libraries. A typical example is to set-up a mobile originated call using the WTAI functions accessible from either a WML deck/card or WMLScript. The application model for WTA is described in [WTA].

The ANSI 136 addendum extends the support of [WTAI] to ANSI136 technology devices by specifying additional events and functions.
5. Network Specific WTAI – ANSI136

In addition to the WTAI functions defined in [WTAI], ANSI 136 networks also support the functions specified in this chapter. An ANSI136 WTA implementation MUST support the Network Common WTAI – Voice Call model specified in [WTAI].

5.1. WTA Events

These events are related to ANSI 136 devices. All WTA event parameters are conveyed as strings. An ANSI136 WTA implementation MUST support the Network Specific WTAI – ANSI136 events specified in this chapter.

5.1.1. wtaev-ansi136/ia

**Event Name:** IncomingAlert  
**Event ID:** wtaev-ansi136/ia  
**Parameters:** `callHandle, alertSequence`  
**Description:** Indicates an incoming alert has been received. The `callHandle` parameter contains the call handle for the voice call that received the alert. (See [WTAI] for a description of the call handle.) The `alertSequence` parameter contains the alert sequence information.

5.1.2. wtaev-ansi136/if

**Event Name:** IncomingFlash  
**Event ID:** wtaev-ansi136/if  
**Parameters:** `callHandle, flashSequence`  
**Description:** Indicates an incoming flash has been received. The `callHandle` parameter contains the call handle for the voice call that received the flash. (See [WTAI] for a description of the call handle.) The `flashSequence` parameter contains the flash sequence information.

5.2. WMLScript Functions

The functions defined in this chapter follow the same function definition format as the one used in [WTAI]. Technical terms used in this chapter, eg events and error codes, are also explained in [WTAI]. An ANSI136 WTA implementation MUST support the Network Specific WTAI – ANSI136 functions specified in this chapter.

**Name:** WTAANSI136  
**Library ID:** 517  
**Description:** This library contains functions that are available on ANSI 136 implementations of WTA.

5.2.1. WTAANSI136.sendFlash

**Function:** sendFlash(`callHandle, flashSequence`)  
**Function ID:** 0  
**Description:** Sends a flash code sequence through an active voice call.
The `callHandle` parameter identifies the voice call on which to send the flash code sequence. (See [WTAI] for a description of the call handle.)

The `flashSequence` parameter contains the flash code sequence to send.

This function returns an empty `string` if successful, or returns `invalid` if the function fails.

### Permission Types:
- BLANKET, CONTEXT, SINGLE (see [WTA]).

### Parameters:
- `callHandle` = `handle`
- `flashSequence` = `string`

### Return value:
- empty `string` or `invalid`

### Associated Events:
- -

### Exceptions:
- If the `callHandle` parameter does not refer to an existing ANSI 136 voice call through which a flash code sequence can be sent, this function returns `invalid`.

### Example:
```javascript
var flag = WTAANSI136.sendFlash(handle, "123");
```

#### 5.2.2. WTAANSI136.sendAlert

### Function:
- `sendAlert(callHandle, alertSequence)`

### Function ID:
- 1

### Description:
- Sends an alert code sequence through an active voice call.

The `callHandle` parameter identifies the voice call on which to send the alert code sequence. (See [WTAI] for a description of the call handle.)

The `alertSequence` parameter contains the alert code sequence to send.

This function returns an empty `string` if successful, or returns `invalid` if the function fails.

### Permission Types:
- BLANKET, CONTEXT, SINGLE (see [WTA]).

### Parameters:
- `callHandle` = `handle`
- `alertSequence` = `string`

### Return value:
- empty `string` or `invalid`

### Associated Events:
- -

### Exceptions:
- If the `callHandle` parameter does not refer to an existing ANSI 136 voice call through which an alert code sequence can be sent, this function returns `invalid`.

### Example:
```javascript
var flag = WTAANSI136.sendAlert(handle, "123");
```
Appendix A. Static Conformance Requirements (Normative)

The notation used in this appendix is specified in [CREQ].

A 1 Client features

A 1.1 WTA Events

<table>
<thead>
<tr>
<th>Item</th>
<th>Function</th>
<th>Reference</th>
<th>Status</th>
<th>Requirement</th>
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<tr>
<td>WTAIANSI136-E-C-001</td>
<td>IncomingAlert (wtaev-ans136/ia)</td>
<td>5.1.1 M</td>
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<tr>
<td>WTAIANSI136-E-C-002</td>
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A 1.2 WMLScript Functions

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<tr>
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A 1.3 WMLScript Bytecode Interpreter Capabilities

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<td>M</td>
<td>WMLS:MCF</td>
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A 2 Server features

A 2.1 WMLScript Encoder Capabilities

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<td>WMLS:MSF</td>
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<td>WMLS:MSF</td>
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</table>
Appendix B. WMLScript Function Libraries (Informative)

In the table below, the WMLScript Function Libraries Calls valid for ANSI 136 networks are summarised. The arguments have been left out in order to increase readability. The values in the column named "Lib/Func ID" denote the Library and Function IDs.

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<th>Lib/Func ID</th>
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<td>Send a flash code</td>
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<tr>
<td>517.1</td>
<td>WTAANSI136.sendAlert</td>
<td>Send an alert code</td>
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Table 1, WMLScript Functions
## Appendix C. Change History (Informative)

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