

Winwap Technologies Oy

Client WAP Stack Library

Wireless Application Environment



WAP stack version 2.6
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Revision history

Date	Author	Description
22-Jun-2004	S Markelov	Draft version of the document.
14-Oct-2004	S Markelov	Updated to WAP Stack version 2.6 (with HTTP).
24-Nov-2004	Maria Sandell	English spell checked.

Introduction

The Wireless Application Environment (WAE) is part of the Open Mobile Alliance's effort to specify an application framework for wireless terminals such as mobile phones, pagers, and PDAs. The framework extends and leverages other WAP technologies, including WTP and WSP, as well as other Internet technologies such as XML, URLs, scripting, and various media types. The effort enables operators, manufacturers, and content developers to meet the challenges in building advanced and differentiated services and implementations in a fast and flexible manner.

The WAP Stack is a WAE User Agent in terms of the "Wireless Application Environment Specification" Version 2, WAP-236-WAESpec-20020207-a, Version 7-Feb-2002. This document shows a set of implemented features to ensure that a WAE User Agent and a WAE Server are able to inter-operate.



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1 WAE User Agent

1.1 WAE Media Types

The WAP Stack is, according to the WAP specifications, a transport layer and therefore the type of data transferred is not relevant. No specific table for “WAE Media Types” is therefore provided in this document.

1.2 WAE Features

WAE User Agents do not depend on any particular transport protocol, although WAE only defines a browser model of User Agent. User Agents are required to provide a hypermedia transfer service. The combination of WSP (Wireless Session Protocol) and WTP (Wireless Transaction Protocol) provides the hypermedia transfer service over secure and non-secure datagram transports. The HTTP (Hypertext Transfer Protocol) provides the hypermedia transfer service over secure and non-secure connection-oriented transports. WAE User Agents must, at a minimum, implement either WSP or Wireless Profiled HTTP. The network communication takes place in the form of WSP/HTTP 1.1 headers and content.

Item	Function	Reference	Status
WAESpec-HTS-C-001	Support for Hypermedia Transfer Service	7.1.1	✓
WAESpec-HTS-C-002	Support for WSP	7.1.1	✓
WAESpec-HTS-C-003	Support for W-HTTP	7.1.1	✓
WAESpec-HTS-C-004	Support for Caching Model	7.1.2	

Item	Function	Reference	Status
WAESpec-URI-C-001	Minimum URI length	7.2	✓
WAESpec-URI-C-002	HTTP URL Scheme	7.2.1	✓
WAESpec-URI-C-003	HTTPS URL Scheme	7.2.2	✓
WAESpec-URI-C-004	HTTPS URI Scheme over WHTTP	7.2.2	✓
WAESpec-URI-C-005	HTTPS URI Scheme over WSP	7.2.2	✓
WAESpec-URI-C-006	Report an error when no TLS or WTLS support available	7.2.2	✓

Item	Function	Reference	Status
WAESpec-PUSH-C-001	Support for Push	7.3	✓
WAESpec-PUSH-C-002	application/vnd.wap.multipart.mixed	7.3	✓
WAESpec-PUSH-C-003	multipart/mixed	7.3	✓
WAESpec-PUSH-C-004	application/vnd.wap.multipart.related	7.3	✓
WAESpec-PUSH-C-005	multipart/related	7.3	✓
WAESpec-PUSH-C-006	application/vnd.wap.multipart.alternative	7.3	✓
WAESpec-PUSH-C-007	multipart/alternative	7.3	✓



Item	Function	Reference	Status
WAESpec-PUSH-C-008	undefined push behaviour	7.3	
WAESpec-PUSH-C-009	Support for Push Message	7.3	✓
WAESpec-PUSH-C-010	Support for Push OTA	7.3	
WAESpec-PUSH-C-011	Support for Service Indication	7.3	

The other tables defined in the WAP-236-WAESpec-20020207-a are not relevant for the WAP Stack.