FOUNDATION FOR INTELLIGENT PHYSICAL AGENTS

FIPA Agent Message Transport Protocol for WAP Specification

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Foreword

The Foundation for Intelligent Physical Agents (FIPA) is an international organization that is dedicated to promoting the industry of intelligent agents by openly developing specifications supporting interoperability among agents and agent-based applications. This occurs through open collaboration among its member organizations, which are companies and universities that are active in the field of agents. FIPA makes the results of its activities available to all interested parties and intends to contribute its results to the appropriate formal standards bodies.

The members of FIPA are individually and collectively committed to open competition in the development of agent-based applications, services and equipment. Membership in FIPA is open to any corporation and individual firm, partnership, governmental body or international organization without restriction. In particular, members are not bound to implement or use specific agent-based standards, recommendations and FIPA specifications by virtue of their participation in FIPA.

The FIPA specifications are developed through direct involvement of the FIPA membership. The status of a specification can be either Preliminary, Experimental, Standard, Deprecated or Obsolete. More detail about the process of specification may be found in the FIPA Procedures for Technical Work. A complete overview of the FIPA specifications and their current status may be found in the FIPA List of Specifications. A list of terms and abbreviations used in the FIPA specifications may be found in the FIPA Glossary.

FIPA is a non-profit association registered in Geneva, Switzerland. As of January 2000, the 56 members of FIPA represented 17 countries worldwide. Further information about FIPA as an organization, membership information, FIPA specifications and upcoming meetings may be found at http://www.fipa.org/.

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1 Scope

This document is part of the FIPA specifications and deals with message transportation between inter-operating agents. This document also forms part of the FIPA Agent Management Specification [FIPA00023] and contains specifications for:

The transportation of messages between agents using Wireless Application Protocol (WAP - see [WAP99]).

2 Message Transport Protocol for WAP

This MTP is based on WAP which represents the entire agent message (including the message envelope) in a WAP message. Once the message has been received, the message envelope is parsed by the ACC and the message is handled according to the instructions and information given in the message envelope.

The following rules apply when using WAP:

- The transport addresses given must be complete, for example, `wap://foo.com/acc` for a WAP phone or a `http://bar.com/acc` for a WAP content server in a wireline network.

- The WAP content type for any data transfer must be set to `x-application/fipa-message`.

The WAP specification defines two modes of interaction between wireless client devices and hosts in a wireline network: through a WAP gateway and to a WAP server. The specification of this MTP does not distinguish between these. However, it should be noted that these two modes lead to different combinations of interfaces for the wireless and wireline environment hosts.

Supporting information about the management of wireless communication environments for agent communication can be found in [FIPA00014].

2.1 Component Name

The name assigned to this component:

`fipa.mts.mtp.wap.std`

2.2 Syntax

The syntax used for the message envelope is that defined in [FIPA00085].

3 References

[FIPA00014] FIPA Nomadic Application Support Specification. Foundation for Intelligent Physical Agents, 2000. http://www.fipa.org/specs/fipa00014/

[FIPA00023] FIPA Agent Management Specification. Foundation for Intelligent Physical Agents, 2000. http://www.fipa.org/specs/fipa00023/

[FIPA00067] FIPA Agent Message Transport Service Specification. Foundation for Intelligent Physical Agents, 2000. http://www.fipa.org/specs/fipa00067/

[FIPA00085] FIPA Agent Message Transport Envelope Representation in XML Specification. Foundation for Intelligent Physical Agents, 2000. http://www.fipa.org/specs/fipa00085/

[WAP99] Wireless Application Protocol Specification Version 1.2. WAP Forum, 1999. http://www.wapforum.org/what/technical.htm