

FOUNDATION FOR INTELLIGENT PHYSICAL AGENTS

FIPA ACL Message Representation Library Specification

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19 **Foreword**

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21 industry of intelligent agents by openly developing specifications supporting interoperability among agents and agent-
22 based applications. This occurs through open collaboration among its member organizations, which are companies and
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32 of specification may be found in the FIPA Procedures for Technical Work. A complete overview of the FIPA
33 specifications and their current status may be found in the FIPA List of Specifications. A list of terms and abbreviations
34 used in the FIPA specifications may be found in the FIPA Glossary.

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36 represented 17 countries worldwide. Further information about FIPA as an organization, membership information, FIPA
37 specifications and upcoming meetings may be found at <http://www.fipa.org/>.

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42 **1 Scope**

43 This document is part of the FIPA specifications and deals with message transportation between inter-operating agents.

44 This document also forms part of the FIPA Agent Management Specification [FIPA00023] and contains specifications
45 for:

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47 Different syntactic representations of ACL.

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48 2 ACL Representations

49 ACL messages need to be encoded in a particular representation before they are transported by an ACC. The
50 representation in use for a particular message is expressed in the `:acl-representation` parameter of the message
51 envelope of that message. The FIPA defined representations are given in *Table 1*.
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Representation Name	Description	Specification
<code>fipa.acl.rep.bitefficient.std</code>	A bit-efficient representation of ACL.	See [FIPA00069]
<code>fipa.acl.rep.string.std</code>	A string based representation of ACL.	See [FIPA00070]
<code>fipa.acl.rep.xml.std</code>	An XML based representation of ACL.	See [FIPA00071]

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Table 1: ACL Representations

56 **3 References**

- 57 [FIPA00023] FIPA Agent Management Specification. Foundation for Intelligent Physical Agents, 2000.
58 <http://www.fipa.org/specs/fipa00023/>
- 59 [FIPA00069] FIPA ACL Message Representation in Bit-Efficient Encoding. Foundation for Intelligent Physical
60 Agents, 2000.
61 <http://www.fipa.org/specs/fipa00069/>
- 62 [FIPA00070] FIPA ACL Message Representation in String Specification. Foundation for Intelligent Physical Agents,
63 2000.
64 <http://www.fipa.org/specs/fipa00070/>
- 65 [FIPA00071] FIPA ACL Message Representation in XML Specification. Foundation for Intelligent Physical Agents,
66 2000.
67 <http://www.fipa.org/specs/fipa00071/>