

# FOUNDATION FOR INTELLIGENT PHYSICAL AGENTS

## FIPA ACL Message Representation Library Specification

<b>Document title</b>	FIPA ACL Message Representation Library Specification		
<b>Document number</b>	OC00068D	<b>Document source</b>	FIPA Agent Management
<b>Document status</b>	Obsolete	<b>Date of this status</b>	2001/08/10
<b>Supersedes</b>	FIPA00024		
<b>Contact</b>	fab@fipa.org		
<b>Change history</b>			
2000/07/22	Made obsolete		
2001/08/10	Line numbering added		

© 2000 Foundation for Intelligent Physical Agents - <http://www.fipa.org/>

*Geneva, Switzerland*

### Notice

Use of the technologies described in this specification may infringe patents, copyrights or other intellectual property rights of FIPA Members and non-members. Nothing in this specification should be construed as granting permission to use any of the technologies described. Anyone planning to make use of technology covered by the intellectual property rights of others should first obtain permission from the holder(s) of the rights. FIPA strongly encourages anyone implementing any part of this specification to determine first whether part(s) sought to be implemented are covered by the intellectual property of others, and, if so, to obtain appropriate licenses or other permission from the holder(s) of such intellectual property prior to implementation. This specification is subject to change without notice. Neither FIPA nor any of its Members accept any responsibility whatsoever for damages or liability, direct or consequential, which may result from the use of this specification.

## 19   **Foreword**

20   The Foundation for Intelligent Physical Agents (FIPA) is an international organization that is dedicated to promoting the  
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  
23   universities that are active in the field of agents. FIPA makes the results of its activities available to all interested parties  
24   and intends to contribute its results to the appropriate formal standards bodies.

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

30   The FIPA specifications are developed through direct involvement of the FIPA membership. The status of a  
31   specification can be either Preliminary, Experimental, Standard, Deprecated or Obsolete. More detail about the process  
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.

35   FIPA is a non-profit association registered in Geneva, Switzerland. As of January 2000, the 56 members of FIPA  
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/>.

38    **Contents**

39	1	Scope .....	1
40	2	ACL Representations .....	2
41	3	References .....	3
42			

## 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:

46  
47 Different syntactic representations of ACL.  
48

## 2 ACL Representations

ACL messages need to be encoded in a particular representation before they are transported by an ACC. The representation in use for a particular message is expressed in the `:acl-representation` parameter of the message envelope of that message. The FIPA defined representations are given in *Table 1*.

Representation Name	Description	Specification
fipa.acl.rep.bitefficient.std	A bit-efficient representation of ACL.	See [FIPA00069]
fipa.acl.rep.string.std	A string based representation of ACL.	See [FIPA00070]
fipa.acl.rep.xml.std	An XML based representation of ACL.	See [FIPA00071]

**Table 1:** ACL Representations

### 3 References

- [FIPA00023] FIPA Agent Management Specification. Foundation for Intelligent Physical Agents, 2000.  
<http://www.fipa.org/specs/fipa00023/>
- [FIPA00069] FIPA ACL Message Representation in Bit-Efficient Encoding. Foundation for Intelligent Physical Agents, 2000.  
<http://www.fipa.org/specs/fipa00069/>
- [FIPA00070] FIPA ACL Message Representation in String Specification. Foundation for Intelligent Physical Agents, 2000.  
<http://www.fipa.org/specs/fipa00070/>
- [FIPA00071] FIPA ACL Message Representation in XML Specification. Foundation for Intelligent Physical Agents, 2000.  
<http://www.fipa.org/specs/fipa00071/>