FIPA Accept Proposal Communicative Act Specification

FOUNDATION FOR INTELLIGENT PHYSICAL AGENTS

Document title FIPA Accept Proposal Communicative Act Specification DC00039B FIPA TC C Document number **Document source** Deprecated Date of this status 2001/08/10 Document status Supersedes None Contact fab@fipa.org Change history 2000/10/16 Deprecated by FIPA00037 2001/08/10 Line numbering added

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19 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 agentbased 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.

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38 Contents

39	1	Scope 1
40	2	Accept Proposal
41	3	References
42		

1 Scope

43 This document specifies the Accept Proposal communicative act that is compliant to [FIPA00037] requirements.

46 2 Accept Proposal

Summary	The action of accepting a previously submitted proposal to perform an action.
Content	A tuple, consisting of an action expression denoting the action to be done, and a proposition giving the conditions of the agreement.
Description	Accept-proposal is a general-purpose acceptance of a proposal that was previously submitted typically through a <i>propose</i> act (see [FIPA00051]). The agent sending the acceptance informs the receiver that it intends that (at some point in the future) the receiving agent will perform the action, once the given precondition is, or becomes, true.
	The proposition given as part of the acceptance indicates the preconditions that the agent is attaching to the acceptance. A typical use of this is to finalise the details of a deal in some protocol. For example, a previous offer to "hold a meeting anytime on Tuesday" might be accepted with an additional condition that the time of the meeting is 11.00.
	Note for future extension: an agent may intend that an action becomes done without necessarily intending the precondition. For example, during negotiation about a given task, the negotiating parties may not unequivocally intend their opening bids: agent a may bid a price p as a precondition, but be prepared to accept price p'.
Formal Model	<i, <j,="" accept-proposal(j,="" act="">,))> <i, act="" done(<j,="" ii="" inform(j,="">,))> FP: Bi Bi (Bifj Uifj) RE: Bj</i,></i,>
	Where:
Example	<pre>= Ii Done(<j, act="">,) Agent i informs j that it accepts an offer from j to stream a given multimedia title to channel 19 when the customer is ready. Agent i will inform (see [FIPA00046]) j of this fact when appropriate: (accept-proposal :sender i :receiver j :in-reply-to bid089 :content ((action j (stream-content movie1234 19)) (B j (ready customer78))) :language FIPA-SL)</j,></pre>

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48 3 References

49	[FIPA00037]	FIPA Communicative Act Library Specification. Foundation for Intelligent Physical Agents, 2000.
50		http://www.fipa.org/specs/fipa00037/

- 51[FIPA Inform Communicative Act Specification. Foundation for Intelligent Physical Agents, 2000.
http://www.fipa.org/specs/fipa00046/
- 53 [FIPA00051] FIPA Propose Communicative Act Specification. Foundation for Intelligent Physical Agents, 2000. http://www.fipa.org/specs/fipa00051/