FIPA Inform If Communicative Act Specification

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Foreword

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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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1 Scope

This document specifies the Inform If communicative act that is compliant to [FIPA00037] requirements.

46 2 Inform If

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Summary	A macro action for the agent of the action to inform the recipient whether or not a proposition is	
	true.	
Content	A proposition.	
Description	The <i>inform-if</i> macro act is an abbreviation for informing whether or not a given proposition is believed. The agent which enacts an <i>inform-if</i> macro-act will actually perform a standard <i>inform</i> act (see [FIPA00046]). The content of the inform act will depend on the informing agent's beliefs. To <i>inform-if</i> on some closed proposition:	
	if the agent believes the proposition, it will inform the other agent that , and,	
	if it believes the negation of the proposition, it informs that is false (i.e.).	
	Under other circumstances, it may not be possible for the agent to perform this plan. For example, if it has no knowledge of , or will not permit the other party to know (that it believes) , it will send a refuse message (see [FIPA00055]).	
Formal Model	<i,)="" inform-if(j,=""></i,>	
	<i,)="" inform(j,=""> <i,)="" inform(j,=""></i,></i,>	
	FP: Bif_i B_i (Bif_j Uif_j)	
	RE: Bif _j	
	<i>Inform-if</i> represents two possible courses of action: <i>i</i> informs <i>j</i> that , or <i>i</i> informs <i>j</i> that not .	
Example	Agent i requests i to inform it whether Lannion is in Normandy.	
	(request	
	sender i	
	:receiver j :content	
	(inform-if	
	:sender j	
	:receiver i	
	:content	
	"in(lannion, normandy)"	
	:language Prolog) :language FIPA-SL)	
	Agent j replies that it is not:	
	(inform	
	:sender j	
	:receiver i	
	:content	
	"\+ in(lannion, normandy)" :language Prolog)	
	Tampaage Frotog/	

48 3 References

49 50	[FIPA00037]	FIPA Communicative Act Library Specification. Foundation for Intelligent Physical Agents, 2000. http://www.fipa.org/specs/fipa00037/
51 52	[FIPA00046]	FIPA Inform Communicative Act Specification. Foundation for Intelligent Physical Agents, 2000. http://www.fipa.org/specs/fipa00046/
53 54	[FIPA00055]	FIPA Refuse Communicative Act Specification. Foundation for Intelligent Physical Agents, 2000. http://www.fipa.org/specs/fipa00055/