

FOUNDATION FOR INTELLIGENT PHYSICAL AGENTS

FIPA Query If Communicative Act Specification

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42 **1 Scope**

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

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45 **2 Query If**

Summary	The action of asking another agent whether or not a given proposition is true.
Content	A proposition.
Description	<p><i>Query-if</i> is the act of asking another agent whether (it believes that) a given proposition is true. The sending agent is requesting the receiver to <i>inform</i> (see [FIPA00046]) it of the truth of the proposition.</p> <p>The agent performing the <i>query-if</i> act:</p> <p style="padding-left: 40px;">has no knowledge of the truth value of the proposition, and,</p> <p style="padding-left: 40px;">believes that the other agent does know the truth of the proposition.</p>
Formal Model	<pre> <i, query-if(j,) <i, request(j, <j, inform-if(i,)>)> FP: Bif_i Uif_i B_i I_j Done(<j, inform-if(i,)>) RE: Done(<j, inform(i,)> <j, inform(i,)>)</pre>
Example	<p>Agent i asks agent j if j is registered with domain server d1:</p> <pre> (query-if :sender i :receiver j :content (registered (server d1) (agent j))) :reply-with r09 ...)</pre> <p>Agent j replies that it is not:</p> <pre> (inform :sender j :receiver i :content (not (registered (server d1) (agent j)))) :in-reply-to r09)</pre>

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47 **3 References**

- 48 [FIPA00037] FIPA Communicative Act Library Specification. Foundation for Intelligent Physical Agents, 2000.
49 <http://www.fipa.org/specs/fipa00037/>
- 50 [FIPA00046] FIPA Inform Communicative Act Specification. Foundation for Intelligent Physical Agents, 2000.
51 <http://www.fipa.org/specs/fipa00046/>