

# FOUNDATION FOR INTELLIGENT PHYSICAL AGENTS

## FIPA Query If Communicative Act Specification

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## **1 Scope**

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

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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>has no knowledge of the truth value of the proposition, and,</p> <p>believes that the other agent does know the truth of the proposition.</p>
Formal Model	<pre>&lt;i, query-if(j, )   &lt;i, request(j, &lt;j, inform-if(i, )&gt;)&gt;   FP: Bif<sub>i</sub>      Uif<sub>i</sub>      B<sub>i</sub> I<sub>j</sub> Done(&lt;j, inform-if(i, )&gt;)   RE: Done(&lt;j, inform(i, )&gt; &lt;j, inform(i, )&gt;)</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/>