

FOUNDATION FOR INTELLIGENT PHYSICAL AGENTS

FIPA Request Communicative Act Specification

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1 Scope

This document specifies the Request communicative act which is compliant to [FIPA00037] requirements.

2 Request

Summary	The sender requests the receiver to perform some action. One important class of uses of the request act is to request the receiver to perform another communicative act.
Content	An action description.
Description	<p>The sender is requesting the receiver to perform some action. The content of the message is a description of the action to be performed, in some language the receiver understands. The action can be any action the receiver is capable of performing: pick up a box, book a plane flight, change a password etc.</p> <p>An important use of the request act is to build composite conversations between agents, where the actions that are the object of the request act are themselves communicative acts such as <i>inform</i> (see [FIPA00046]).</p>
Formal Model	<pre><i, request(j, a)></pre> <p>FP: $FP(a) [i \setminus j] \wedge B_i \text{ Agent}(j, a) \wedge \neg B_i I_j \text{ Done}(a)$</p> <p>RE: $\text{Done}(a)$</p> <p>$FP(a) [i \setminus j]$ denotes the part of the FP's of a which are mental attitudes of i.</p>
Example	<p>Agent i requests j to open a file.</p> <pre>(request :sender i :receiver j :content "open \"db.txt\" for input" :language vb)</pre>

3 References

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