

FOUNDATION FOR INTELLIGENT PHYSICAL AGENTS

FIPA Cancel Communicative Act Specification

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1 Scope

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

2 Cancel

| | |
|---------------------|---|
| Summary | The action of cancelling some previously <i>requested</i> action (see [FIPA00057]) which has temporal extent, that is, it is not instantaneous. |
| Content | An action expression denoting the action to be cancelled. |
| Description | <p>Cancel allows an agent to stop another agent from continuing to perform (or expecting to perform) an action which was previously requested. Note that the action that is the object of the act of cancellation should be believed by the sender to be ongoing or to be planned but not yet executed.</p> <p>In most interaction protocols, attempting to <i>cancel</i> an action that has already been performed should result in a <i>refuse</i> message (see [FIPA00055]) being sent back to the originator of the request.</p> |
| Formal Model | <pre><i, cancel(j, a)>≡ <i, disconfirm(j, I_i Done(a))> FP: ¬I_i Done(a) ∧ B_i (B_j I_i Done(a) ∨ U_j I_i Done(a)) RE: B_j ¬I_i Done(a)</pre> <p><i>Cancel</i> is the action of canceling any form of <i>requested</i> action. In other words, an agent <i>i</i> has requested an agent <i>j</i> to perform some action, possibly if some condition holds. This has the effect of <i>i</i> informing <i>j</i> that <i>i</i> has an intention. When <i>i</i> comes to drop its intention, it has to inform <i>j</i> that it no longer has this intention, that is, a <i>disconfirm</i> action (see [FIPA00044]).</p> |
| Example | <p>Agent j0 asks i to cancel a previous <i>request-when</i> act (see [FIPA00058]) by quoting the action:</p> <pre>(cancel :sender j0 :receiver i :content (request-when :sender j ...))</pre> |

3 References

- [FIPA00037] FIPA Communicative Act Library Specification. Foundation for Intelligent Physical Agents, 2000.
<http://www.fipa.org/specs/fipa00037/>
- [FIPA00044] FIPA Disconfirm Communicative Act Specification. Foundation for Intelligent Physical Agents, 2000.
<http://www.fipa.org/specs/fipa00044/>
- [FIPA00055] FIPA Refuse Communicative Act Specification. Foundation for Intelligent Physical Agents, 2000.
<http://www.fipa.org/specs/fipa00055/>
- [FIPA00057] FIPA Request Communicative Act Specification. Foundation for Intelligent Physical Agents, 2000.
<http://www.fipa.org/specs/fipa00057/>
- [FIPA00058] FIPA Request When Communicative Act Specification. Foundation for Intelligent Physical Agents, 2000.
<http://www.fipa.org/specs/fipa00058/>