

FIPA	97/01/22 12:33
FOUNDATION FOR INTELLIGENT PHYSICAL AGENTS	Torino
Source: Board of Directors	fipa7106

Resolutions of Torino meeting

1. FIPA notes the report of the Board of Directors concerning
 - the completion of the formalities related to the establishment of FIPA (inscription at the Commerce Registrar of Geneva);
 - the establishment of “Associate Membership” status with a membership fee of 1,750 CHF and no right to vote;
 - the current list of members (FIPA7102);
 - the list of formal contact points (FIPA7116)
 - the request to members to propose a FIPA logo at the next meeting.

2. FIPA acknowledges the submissions in response to its 1st Call for Proposals (FIPA7108) and thanks contributors for their support to the development of FIPA '97 specification.

3. FIPA establishes 3 technology-oriented Technical Committees with Terms of Reference given in FIPA7110 and appoints the Chairmen as indicated below:

Title	Chairman	Affiliation	Country
Management	Paul O'Brien	BTLabs	UK
Communication	Donald Steiner	Siemens	DE
Interaction	Yeun-Bae Kim	NHK	JP

4. Application-oriented Technical Committees will be established at the next meeting.

5. FIPA adopts the following structure for its FIPA '97 specification. The specification type is given below.

No.	Title	Type
1.	Agent management	Normative
2.	Human/agent and agent/agent communication	Normative
3.	Agent/software interaction	Normative
4.	Personal travel assistance	Informative
5.	Personal assistant	Informative
6.	Audio-visual entertainment and broadcasting	Informative
7.	Network management and provisioning	Informative

6. Resolutions of Technical Committees

6.1 Agent Management TC

6.1.1 The Agent Management Technical Committee proposes acceptance of FIPA7111 as an initial draft proposal for agent management.

6.1.2 The Agent Management Technical Committee proposes the establishment of an ad-hoc group addressing agent management issues between FIPA meetings. This will be facilitated through email exchange.

FIPA Meeting Schedule	FIPA IV (Torino,1/97)	FIPA V (USA,4/97)	FIPA VI (KOREA,7/97)	FIPA VII (EUROPE,10/97)
Output	First draft specification with incomplete sections and context for CFP2	Second draft specification with the incomplete sections filled.	Third draft specification with issues identified in CFP2 resolved.	Final specification
Actions to be taken between the meetings.	Establish ad-hoc working group. Initiate discussion on open issues and sections requiring further work.	To Be Determined	To Be Determined	To Be Determined

6.2 Agent Communication TC

6.2.1 We adopt as the basis of the agent communication language the proposal by France Télécom for the ARCOL communication language and its associated semantic definition. We adopt the content language SL, also from France Télécom, as an informative standard for the content language of messages. We adopt the cooperativeness protocols, also from France Télécom, as a possible basis for cooperative behaviour (cooperativity contracts).

6.2.2 Document `fipa7112.doc` is to be published as part of the FIPA 1st draft Specification.

6.2.3 A call for specific interaction protocols and cooperativity contracts is to be included in the FIPA 2nd Call for Proposals.

6.2.4 The most current version of the language specification document will be updated at approximately monthly intervals and will be made available from the FIPA WWW site. Previous versions of the document will remain available from a document revision history for reference purposes.

6.2.5 An E-mail reflector is to be established restricted to members of FIPA to further discuss, develop and refine the following issues:

- communication language syntax and semantics;
- message content;
- composite messages;
- interaction protocols.

Persons interested in joining the ongoing discussion should send electronic mail to:

`Donald.Steiner@mchp.siemens.de`

6.3 Agent/Software Interaction TC

6.3.1 The draft specification of the interaction between the agent and external-software implies the existence of a repository manager to register components.

6.3.2 The draft specification of the interaction between the agent-core and components implies the existence of an active message board mechanism.

6.3.3 Set-up of an e-mail reflector (fipa-tc3@kim.cselt.stet.it) for the further editing and refinement of the draft specification of this technical committee.

6.3.4 Submit the active message board mechanism to be considered for agent-to-agent interaction defined by TC1 and TC2.

6.3.5 Produce a roadmap for future resolution of open issues:

FIPA Meeting Schedule	FIPA IV (Torino,1/97)	FIPA V (USA,4/97)	FIPA VI (KOREA,7/97)	FIPA VII (EUROPE,10/97)
Output	First draft specification with some incomplete sections	Second draft specification with the incomplete sections filled.	Third draft specification with issues identified in CFP2 resolved.	Final specification
Actions to be taken between the meetings.	Relationship to other standards to be identified regarding the following open issues: Security, Accounting, Fault handling, Performance Relationship of items defined in this specification which are the subject of standardisation in other fora to be examined.	After aligning the specification with the output of other TCs, any unresolved issues will be the subject of a subsequent CFP.	Achievement of agreements on any open issues or questions raised at FIPA VI	

7. Resolutions of the Personal Travel Assistant group

7.1 Such problems are very large, distributed, and complex enough to indicate a multi-agent, multi-component, multi-vendor solution.

7.2 Each FIPA'97 technology (agent interaction, external attachment, internal composition, and agent management) seems required and generally adequate. However, the test of the specifications has been cursory and requires more attention to the details before a stronger statement can be made.

7.3 FIPA 1997 technologies do not well support Human/Agent Interaction, aside from the underlying model of speech acts. Suggest that Human/Agent Technology Group be formed for special focus, assuming the same underlying dialog model now established by the combined Human-Agent/Agent-Agent Technology Group. (Review SGML and other proposals at next meeting? Additional CFP?)

7.4 While based on several possible object models, agent design and interaction seem to require a specialization beyond an object model per se.

7.5 The design principles of distributed objects models needs more investigation for special problems. For instance, assuming OMG's CORBA, is the ORB embedded as part of another service or is it explicitly callable by the FIPA agent layer? In short, are ORB services directly callable by an ARB?

7.6 Maintain separation of Personal Assistant and Personal Travel Assistance.

7.7 FIPA members should pursue the use of a prototype system jointly developed by FIPA

members. Prototype use can begin with our own travel arrangements to meetings.

8. FIPA approves the baseline draft FIPA '97 specification, parts 1, 2, 3 and 4 (FIPA7111, FIPA7112, FIPA7113 and FIPA7114, respectively). The documents are for public release and will be posted on the FIPA home page. Comments to the documents are invited from members and non-members. Comments have to be received in electronic form (word or html format, the latter preferred) by 4 April 1997 and posted on the FIPA home page for access by members only. Non members making substantial comments to the documents will be invited to attend the next meeting.

9. Model for FIPA '97 compliance should be an important item in next meeting's agenda.

10. FIPA will start a detailed planning of field trials for the 4 selected application areas. The expected time frame for trial is mid-'98.

11. FIPA approves its Call for Proposals No. 2 (FIPA7115) which is issued with the intention of acquiring technologies, already requested by CFP1, that have not received sufficient responses. Registrations are to be received by 28 March 1997 and Proposals have to be received in electronic form (word or html format, the latter preferred), by 4 April 1997. Proposals will be posted on a page not directly accessible from the main FIPA home page for access by members. Non members making proposals will be invited to attend the next meeting

12. Four ad-hoc groups will be established to discuss matters related to the 4 parts of the FIPA '97 specification and to produce proposals of revised drafts at the next meeting:

1. Agent management draft P. O'Brien - obrienpd@info.bt.co.uk
2. Agent communication D. Steiner - Donald.Steiner@mchp.siemens.de
3. Agent/software interaction Y. Kim - kimyb@strl.nhk.or.jp
4. Personal Travel Assistance A. Leger - alain.leger@ccett.fr

Those interested to join an ad-hoc group should send an e-mail to the relevant chairman.

13. FIPA establishes a Special Interest Group (SIG) on Standards with the task of tracking related standards activities, both de jure and de facto (FIPA7117). Hugo Velthuisen is appointed as Chairman of this SIG.

14. FIPA notes its internal organisation (FIPA7110).

15. FIPA approves its workplan

Work items	Action	Year	Month	Days	Place
1 st	Proposals received Baseline draft spec produced Roadmap to resolve issues produced CFP2 issued	1997	Jan	20-24	Torino
1 st	1 st draft spec produced All technical issues settled Plan for 1998 trials produced	1997	Apr	14-18	US
1 st	2 nd draft spec produced	1997	Jul		Korea

1 st 2 nd	FIPA '97 Specification produced Call for Proposals issued	1997	Oct		Europe
2 nd	Proposals received Baseline draft spec produced	1998	Jan		America
2 nd	1 st draft spec produced	1998	Apr		Asia
2 nd	2 nd draft spec produced	1998	Jul		Europe
2 nd 3 rd	FIPA '98 Specification produced Call for Proposals issued	1998	Oct		America

16. FIPA supports the proposal of the Board of Directors to encourage members to produce and release the copyright of software implementing parts of FIPA specification. The model statement of FIPA7105 describes the conditions of release and use.

17. FIPA notes the proposal of the Board of Directors concerning IPR Policy and Rules (FIPA7107). Members are invited to make comments by 4 April 1997. Comments will be posted on the FIPA home page for access by members. The final version of the document will be adopted at the next meeting .

18. FIPA approves its meeting plan

No.	Year	Month	Days	City	Country
5 th	1997	April	14-18	Reston, VA	US
6 th	1997	July			KR
7 th	1997	October			EUR

19. FIPA thanks CSELT for their warm hospitality in the hosting of the 4th FIPA meeting, in particular:

Fabio Bellifemine
Michela Billotti
Paola Bordone
Enzo La Grutta
Caterina Magli
Gabriella Maracich
Paola Santinelli.