

FIPA	98/01/29
FOUNDATION FOR INTELLIGENT PHYSICAL AGENTS	Palo Alto
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Resolution of Palo Alto meeting

1. FIPA notes the report of the Board of Directors concerning

- The establishment of a FIPA Academy (fipa8105)
- The intention to award Electronic Ink the task to produce a FIPA Web Site. Members are encouraged to send their suggestions to Harold Hambrose (harold@electronicink.com) within the next few days.
- The FIPA 97 specifications will be printed as soon as Electronic Ink will produce the cover page. Members will receive two copies of the specifications. For those members for which no formal communication contact has been given the two copies will be sent to those individuals who have attended the last meetings. Fipa8107 is a list of organisation who will receive a copy of FIPA 97.

2. FIPA endorses the nomination made by the Membership and Nomination Committee and acclaims Hirok Suguri as FIPA Director. The Membership and Nomination committee is asked to provide more nominees to fill one post on the Board of Directors.

3. FIPA approves the recommendations of the ad-hoc group on evolution of FIPA 97 specifications.

Start a new technical committee (TC 10) to address the support of FIPA 97.

The inputs to TC10 will be:

- **All** comments on FIPA 97

The main outputs from TC10 will be:

- FIPA 97 v2.0
- A User Guide to FIPA 97

Production of FIPA 97 v2.0 should adopt the following guide:

FIPA 97 v2.0 = FIPA 97 v1.0 + minor alterations.

The facilitators for FIPA 97 maintenance are (numbers correspond to FIPA 97 parts):

1. Bernard Burg
2. Donald Steiner
3. Kim Yeun Bae
4. Ger d Voelksen
5. Donald Steiner
6. Shibata Masahiro
7. Mariu sTesselar

Comments regarding a FIPA 97 part should be directed to the facilitator. If the problem highlighted is more general the TC 10 Chair should be contacted.
A more complete procedure to handle inadequacies of FIPA 97 will be developed at the 9th meeting.

Extension of the FIPA 97 **applications** should adopt the following guide:

FIPA 98 v1.0 = FIPA 97 v2.0 + FIPA 98 extensions

The FIPA 98 application extensions will be written **outside** the jurisdiction of TC 10.

The shape, size, and form of the FIPA 98 application extensions will be determined by the FIPA 98 membership. Details may emerge before the end of the 9th FIPA Meeting in Osaka.

New ‘champions’ for the FIPA 98 application extensions have not been identified, and may not be the same as the facilitators listed above.

FIPA 98 extensions to the **normative** parts of FIPA 97 have not been addressed by this Work Group.

It is recommended that (initially, at least) FIPA 98 extensions to the FIPA 97 applications be written as appendices to the application parts of FIPA 97 v2.0; they will not be submitted as part of FIPA 97 v2.0. This will reduce duplication of the maintenance tasks.

If a particular application (in FIPA 98) diverges **significantly** from its FIPA 97 counterpart, then 2 separate documents may be maintained.

4. FIPA approves its organisational structure (fipa8108).

5. FIPA would like to thank Donald Steiner, Yeun-Bae Kim, Manuel Aparicio, Key-Sun Choi and Marius Tesselar for their outstanding work in chairing TC2, TC3, TC4, TC5, TC6 and TC 7 in 1997.

6. FIPA approves the structure of specifications it plans to produce in 1998 (fipa8104). Members are asked to make known their interest in producing a version 2 of one or more of the applications selected in 1997 by the next meeting.

7. Resolutions of Technical Committees

TC 1

TC1 proposes that FIPA adopt the following recommendations :

1) To adopt the revised Agent Management Mandate which reads :

“To define a detailed normative framework within which FIPA agents can exist and operate, including reference, life-cycle, security and mobility models, agent management tool specifications, and an informative annex. To adopt an external view of an agent, ensuring that developers retain the maximum freedom in the development of an agent

system. Similarly, to provide flexibility in the organisation and configuration of agent systems.”

2) To agree to TC1 pursuing the specification of the following three parts to FIPA98 (v.1) and the appointment of the mentioned editors:

- Part 1 : Agent Management : fipa8111 : (temp. Paul O’Brien : BT)
- Part 10 : Security Management : fipa811a : (Marius Tesselaar : KPN)
- Part 11 : Agent Management Support for Mobility : fipa810b (Bernard Burg : Motorola)

3) To agree to the Table of Contents and scope statements for parts 1,10 and 11 in FIPA98 (v.1)

TC 2

TC2 proposes that FIPA adopt the following recommendations :

- TC2 accepts the resignation of its chairman Donald Steiner and congratulates him for the successful work to produce FIPA 97 specifications part2. Fabio Bellifemine is appointed as new chairman.
- TC2 agrees the new mandate: “Producing specifications of Technologies and Tools dealing with Management and definition of Ontologies”.
- TC2 appoints Wiet Bouma as editor for FIPA 98 specifications.
- TC2 approves the scope for FIPA 98 and the workplan to achieve FIPA 98 specifications
- A new Call for Proposal focused on Ontology Management Technologies is approved
- The workplan for development of FIPA 98 part 2 v. 1 is approved

1	Palo Alto	Fabio Bellifemine	Establish an e-mail reflector fipa-onto@kim.cselt.it
2	Palo Alto		List of Action Points to be delivered at next meeting.
2	Before FIPA – Osaka	Nicola Guarino	Produce a report about how to exploit the current ANSI Top level Ontology for the FIPA goals
3	Before FIPA – Osaka	Fabio Bellifemine	Produce a first draft of a structured vocabulary with all the terms in FIPA 97 (part 1,2,3)
	Osaka	All	Collect results of the action points
4	During FIPA – Osaka	Wiet Bouma (provisionally)	Present OKBC API and Ontolingua protocol. Even if these protocol and API are at a level lower than the FIPA98 specs, they provide a good example of the ontology service that FIPA98 intends to specify
5	Output of FIPA – Osaka		Section 1,5,6 of the specs. First draft of section 7 and annex1.
6	Output of FIPA – Dublin		Second draft of the specs with all sections completed
7	Output of FIPA-USA		Final specs

- The following action points for the next meeting are adopted

1	Collect reference bibliography: Web pages, papers, books etc. + short description (content, why useful for TC2)	All
2	Report on Ontolingua API and OKBC	Wiet (Wednesday in Osaka)
3	Report on RDF	Wiet (Wednesday)
4	Pointers to good examples of ontologies	All
5	Raw protocol for ontology negotiation	Theirry
6	Naming Space	Theirry
7	Representation language	Fabio
8	Meaning and raw protocol Translation, Downloading, Updating and Fusion	Fabio, Suguri
9	Communication between ontology agents – fusion	Suguri
10	Get elements for top-level ontology	Fabio, Nicola
11	Guidelines	Fabio, Nicola
12	List of FIPA 97 Terms	Fabio?

- TC2 recognises the need of more expertise in this field and invites the Board of Director to set a plan to acquire external expertise. Nicola Guarino and Adam Farquhar are proposed as new members of the FIPA Academy.
- A new mailing list is set up for TC2. The address is *fipa-onto@kim.cselt.it*

TC 8

TC8 proposes that FIPA adopt the following recommendations :

- 1) Approval of the first draft of FIPA 98 “Human/Agent Interaction” (fipa8118) with the followings:
 - Creation of human-agent interaction reference model including User Model Representation Service (UMRS), Generic Learning Service (GLS), Translation to/from User Formats of User Interfaces.
 - Identification and description of technology items to be standardized:
 1. Interface to UMRS.
 2. Interface to GLS.
 3. ACL-compatible end user formats / real world interface.
- 2) Approval of additional CfP 98 for “Human/Agent Interaction” technologies for ACL-compatible end user formats / real world interface.

TC 9

TC9 proposes that FIPA adopt the following recommendations :

- 1) Product Design and Manufacturing will be added the application areas for FIPA98. A technical committee with Aparicio as chair will develop an informative application specification as part of FIPA98. The scope of work will include Manufacturing and Telecommunication interests (as well as Banking) to satisfy the general interest of FIPA members and to demonstrate the multivendor, multiindustry, multinational scope of the application.
- 2) A letter will be sent from FIPA to SMART, expressing thanks for its proposal and openness to future collaboration.

- 3) The manufacturing document will be sent to the OMG MES/MC Task Force in response to its current RFI. A cover letter will express FIPA's intentions in 1998, the informative nature of this work, and desire to explore agent-object examples based on the emerging MES specifications as well other OMG standards.
- 4) The manufacturing document (a revision) will be sent to Workshop on Agents and Manufacturing (part of Agents 98) to be held in May 1998. A cover letter will request a special presentation to inform the workshop about FIPA activity. Aparicio will present, if accepted. Berry will be referenced for additional forwarding to the Manufacturing community.

8. FIPA recognises the importance of testing for conformance implementations of its 97 specifications. FIPA resolves to defer consideration of this problem waiting for development of expertise and interest during 1998.

9. FIPA approves the resolutions of the SIG

- The meeting agrees to meet with the DARPA study headed by Doug Engelbart to participate in a series of interviews on subjects brought in by the study
- A letter should be sent to OMG explaining the current FIPA position on the MAF/MASIF and drawing the OMG's attention to the new Call for Proposals from TC1. TC 1 Chair will be asked to draft a letter. This will be circulated to FIPA members for comments and sent by the President.
- A letter should be sent to SMART acknowledging their efforts in introducing the FIPA standards in the manufacturing domain and confirming the role of Manny Aparicio as liaison person
- The maintenance of the sig mailing list will be taken over by Fabio Bellifemine. The new address will be:
fipa-sig-stand@kim.cselt.it
- The FIPA SIG web site will be incorporated into the new FIPA web site. Wiet Bouma will continue to act as moderator for:
 - the list of conferences to be maintained at the site
 - places of interest relevant to FIPA
 - standards and literature references relevant to FIPA

10. FIPA approves the outline of FIPA 98 specifications for publication (fipa8111, fipa8112, fipa8118, fipa8119, fipa811a and fipa811b). These documents will be posted on the FIPA home page for comments.

11. FIPA approves its Call for Proposals # 4 (CfP4) requesting specific technologies necessary to develop the FIPA 98 specifications (fipa8106). FIPA thanks Prof. Nishida for coordinating the drafting of the Call. Registrations of intention to submit one or more proposals have to be received by 06 April 1998 and submissions have to be received in electronic form (word or html format, the latter preferred) by 13 April 1998. Submissions will be posted on the FIPA home page for access by members only.

12. FIPA approves the Palo Alto Press Release (fipa8103)

13. Six ad-hoc groups are established to discuss matters related to the FIPA 97 field trials, FIPA 98 and the SIG.

ahg#	Chair	email address	reflector address
ahg1	P. O'Brien	Obrienpd@info.bt.co.uk	fipa.man@info.bt.co.uk
ahg2	F. Bellifemine	Fabio.bellifemine@cselt.it	fipa-onto@kim.cselt.it
ahg3	Y. Miyazaki	Wolfgang.Pohl@gmd.de	fipa-hai@gmd.de
ahg4	M. Aparicio		
ahg5	R. Hadingham	R.G.Hadingham@nortel.co.uk	fipa97@nortel.co.uk
ahg6	L. Bouma	l.g.bouma@research.kpn.com	fipa-sig-stand@kim.cselt.it

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

14. FIPA approves its 1998 workplan

Work items	Action	Year	Month	Days	Place
2 nd	Proposals received Baseline draft spec produced Call for Proposals issued	1998	Jan	26-30	Palo Alto
1 st 2 nd	FIPA 97 Field Trials ver. 1.1 FIPA 98 ver. 0.1	1998	Apr	20-24	Osaka
1 st 2 nd	FIPA 97 Field Trials ver. 1.2 FIPA 98 ver. 0.2	1998	Jul	13-17	Dublin
1 st 2 nd 3 rd	FIPA 97 ver. 2.0 published FIPA 98 ver. 1.0 produced Call for Proposals issued	1998	Oct		America

15. FIPA thanks Hewlett-Packard Laboratories for offering FIPA excellent meeting facilities in Palo Alto in the hosting of its 8th meeting, in particular:

Michelle Cagle
Ray Crispin
Ian Dickinson
Jennifer Jansen
Lin Jones
Art Wittke