



Contract No. 004420

eu-DOMAIN - enabling users for
 Distance-working & Organizational Mobility using Ambient Intelligence Networks

D1.2.1 Period 1 Activity Report

Specific Targeted Research or Innovation Project

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1. Introduction

This report is the eu-DOMAIN activity report for the project's first formal reporting period, Period 1: 1st June 2004 to 31st May 2005. It should be read in conjunction with the corresponding eu-DOMAIN D.1.2.1 Management Report for the same period. For clarity some information is duplicated in both reports.

This activity report encompasses a publishable executive summary, the project's progress against its objectives, workplan and management aims, and includes an updated dissemination and use plan.

2. Executive summary

2.1 eu-DOMAIN aims and objectives

The eu-DOMAIN project will develop a new, innovative European ambient intelligence service platform which will interconnect people, devices, buildings and content in an interoperable network and open up entirely new ways of working in collaborative work environments.

An estimated 12 million Europeans travel everyday across Europe working outside their normal workspace. eu-DOMAIN will dramatically improve their ability to deliver quality services, increase the competitiveness and visibility of their host organisations and generally improve the quality of life for Europe's citizens.

European impact

<u>Strategic impact</u>: eu-DOMAIN places European companies at the forefront of ambient intelligent technologies *providing potential to significantly increase the competitiveness of European businesses*. It provides SMEs with an easy-to-deploy strategic platform allowing them to drastically improve time-to-market of their products by simply renting access to the platform from service providers.

<u>Economic impact</u>: eu-DOMAIN integrates a number of emerging technologies in an infrastructure and set of applications and services. The scenarios being validated are in the eBusiness and eHealth domains but the results will have wider applicability in many other domains. A platform that improves the efficiency and effectiveness of a market of this size must by definition have a major impact at the European level. Citizen users will similarly realise both economic and social benefits as a result of their more efficient and effective interaction with all types of organisation using eu-DOMAIN.

<u>Business innovation</u>: An integral part of the project is the analysis and development of realistic business models for users and service providers. *New research into defining and measuring value creation in web service networks will lead to innovative business structures involving content providers and service providers in collaborative systems.* Specific emphasis will be made on identifying new business opportunities for SMEs. Governments, especially in the healthcare and social services area, will be provided with a platform for delivering public services directly to the citizens' homes with enormous potential for improving quality and reducing costs.

Results exploitation

The intention is to establish eu-DOMAIN as a new joint-venture stand-alone business available to potential users throughout Europe initially, and then potentially worldwide. *It is expected that the joint venture will cover sufficient technological ground to be able to offer and operate a complete Europe-wide eu-DOMAIN platform.*

In addition to participation in the joint venture, the eu-DOMAIN partners will also be able to exploit the knowledge gained from participation to improve their consultancy services and/or research activities to all types of private and public sector organisations who are interested in exploiting emerging technologies to implement new and better ways of working.

Validation scenarios

Two innovative user scenarios have been defined to demonstrate the systems potential: In the field of *industrial pumps* the focus is '*Serving your every need*!': Combined with eu-DOMAIN, the basic product function of a pump will shift from simply moving water (or fluids) to be an integral, maybe even a crucial part, of the customer's solution. The pumps are "serving you – wherever you are – whatever you do – whenever you want it".

In the field of *Healthcare* the focus is '*Patients as customers':* A variety of new methods, devices and medication are available from various service providers, each of them offering their services to an informed patient - sometimes in competition; sometimes in cooperation. The patient chooses the providers that are most suited to their needs supported by eu-DOMAIN technology.

Approach

eu-Domain will realise its vision by developing a working example of 'Ambient Intelligence' infrastructure, combining state-of-the-art communications, decision support, semantic web and location-based technologies.

It will pave the way for its commercial deployment through the development of realistic business models for users and service providers.

The project's work is divided into five phases covering:

- Project coordination processes
- Research and development,
- Prototyping and system integration
- User testing and uptake
- Dissemination and exploitation.

Technology innovation

The main technological innovation in eu-DOMAIN lies in its 3-tier hierarchical client-server structure with multilevel distributed, configurable intelligence pools. This structure supports the wealth of different applications, which can be integrated into the Europe-wide ambient intelligence service network.

Another very innovative feature is self-configuring devices that use semantic agents to search for configuration set-up, protocols and user interfaces. Application specific intelligence pools perform intelligent adaptation and user set-up, tailored to the users precise needs in the actual real-world situation.

A further innovative feature of eu-DOMAIN is the web based service-provisioning platform, which allows any service provider (industrial, healthcare, government, etc.) to deliver web services to people and devices in any location across Europe.

2.2 Project participants

The eu-DOMAIN consortium has an excellent insight into the state of the art in this field. It encompasses highly skilled organisations with a wealth of experience necessary to the project's management, technical and business requirements. The consortium is:

- Functionally comprehensive with a very full and sound balance between user, technical and managerial expertise with clear and relevant roles established for each consortium partner; and;
- Skilled and experienced in the projects business and technical requirements with the projects requirements for user input well covered across the focus sectors of Building Facility Management and eHealth Services.

It is nationally and culturally diverse with partners from 6 European countries who conduct their business across Europe and beyond, providing a clear understanding of the dynamic business, sociological and cultural characteristics of its potential market place. The consortium partners are:

Contractors:

Participant	Role	Country	Expertise
C International Ltd (CIL)	Coordinating Partner	United Kingdom	Extensive experience of managing IST and other multi-partner projects. Substantial prior involvement in testing implementation and evaluation activities and substantial experience in business modelling.
Innova S.p.A. (INNOVA)	Partner	Italy	Long experience in bringing new technology to SMEs. Experience in conduction European Awareness Scenario Workshops (EASW) and substantial knowledge of Socio-economic issues in relation to technology deployment.
In-JeT ApS (IN-JET)	Partner	Denmark	Considerable knowledge on frameworks for ambient intelligence and web services. Also in business modelling and building business cases.
University of Aarhus, Dept of Computer Science (UAAR)	Partner	Denmark	Substantial scientific knowledge of software architectures and system analysis. Experience in gateway technology and OSGi frameworks and substantial scientific knowledge of trust and security analysis.
FORTH (FORTH)	Partner	Greece (Crete)	Expertise in all aspects of system design for healthcare. Substantial expertise in <i>e</i> Health devices and extensive expertise in EPR and ICRS systems.
CNet Svenska AB (CNET)	Partner	Sweden	Extensive experience in XML based content and web service application development. Substantial knowledge in web-based meta data creation for the construction industry.
			Experience in interactive environments for geographically distributed organisations.
T-connect S.r.I. (T-CON)	Partner	Italy	Experience in wireless broadband technologies. Substantial knowledge of deliveries of personalised services via wireless networks.
Software AG (SAG)	Partner	Belgium	Leading vendor of XML technology and solutions. Substantial experience in web services and content management. Comprehensive experience in mobile computing.
Telefónica I+D (TID)	Partner	Spain	Substantial experience in intelligent network and services creation on broadband. Comprehensive skills in artificial intelligence and software engineering. Experiences in real time systems and databases and knowledge bases.
Grundfos (GMA)	User	Denmark	Grundfos is one of the world's leading pump manufacturers and has decades of know-how about pumps and pump systems and is a typical case of a European Service Network user.
Eastern Birmingham Primary Care Trust (EBPCT)	User	United Kingdom	The PCT has extensive experience in commissioning hospital services as well as providing community services and running emergency services and is a typical case of a Healthcare for tomorrow user

Additional supporting participants:

CONTRIBUTOR - ALEXANDRA INSTITUTE, Denmark;

SUBCONTRACTOR - ACIT GMBH, Germany;

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2.3 Progress to date

The eu-Domain project has completed its first formal reporting period covering June 2004 through May 2005. During this period the project has achieved its set objectives and is currently on schedule to complete its activities to plan.

The project has seen sound progress made to date with:

- The current state-of-the-art in the ambient intelligence arena having been analysed and documented, and continued to be impacted upon the projects user functional requirements, system architecture and system development.
- Innovative user scenarios and functional user requirements finalised, with the two user partners being used as a clear focus for eu-DOMAIN development, deployment and validation.
- The eu-DOMAIN client and server-side architectures have been defined together with design guidelines for user interfaces to form a sound framework to the system development work which is now underway.
- The user scenarios workflow procedures and potential for innovation have been analysed and now provide a prioritised approach to eu-DOMAIN deployment for validation by the user partners.
- The implementation of the architecture has been initiated with the on-going development of an early demonstrator for one of the user scenarios.
- Business model analysis has been commenced and will be continued to completion over the next six months.
- The project's dissemination has been initiated through workshops and peer contacts and the first phase of the dissemination programme completed to plan.

The project's workplan has progressed as intended with the tasks and deliverables scheduled to this point in the project having been completed. There have been no issues or unexpected problems that have impacted the project's schedule, costs or quality.

The project is progressing under its sound organisational framework with each and every consortium partner playing a significant role in the project and deploying their skills and experience to maximum effect. The project's resource usage is running within plan with some of the work originally planned for later in the project currently running ahead of schedule.

2.4 Next Steps

The project is currently focusing upon the development of the eu-DOMAIN system components from the Client and Server Side's architecture specifications and the definition of supporting business models for eu-DOMAIN deployment. Over the next few months:

- The implementation of the eu-Domain client and server software will continue with the focus upon early demonstrator systems for proof of concept and for supporting detailed validation planning and wider project dissemination.
- · Business modelling will be fully underway.
- A technology and competitor watch will be maintained to ensure that the development of the eu-DOMAIN system takes account of evolving technologies and that its business models remain ahead in the potential marketplace.
- The project's dissemination and use plans will be updated and the already established dissemination programme intensified for the second phase of the project's planned dissemination programme. The project website is being considerably enhanced to support this.

3. Project objectives and achievements for the reporting period

3.1 Main achievements summary

This first formal reporting period (fourth quarterly reporting period) for months 1 to 12 of the eu-DOMAIN project has seen good progress being made with the set objectives for the period being achieved. This first 12 months of the project has seen:

- The project being successfully initiated, from the pre-contract signature date agreed with the Commission of the 1st of June 2004, within a sound management and quality framework.
- The project's state-of-the-art analysis completed and documented, and impacted upon the user functional requirements analysis and technical architecture definition work.
- Innovative user scenarios being finalised with the two user partners with these being henceforward the focus for eu-DOMAIN deployment and validation.
- User requirements specification completed with the production of the
 - o Functional user requirements
 - Societal user requirements
 - o Trust and security requirements, and
 - o Drafting of the Workflow analysis and optimisation.
- The eu-DOMAIN client and server-side architectures and the design guidelines for user interfaces finalised.
- The workflow procedures and potential for innovation deliverable completed later than originally planned, allowing for further user validation and correlation with the finalised technical architecture.
- The implementation of the architecture initiated with the on-going development of an early demonstrator for one of the user scenarios.
- The project's first phase dissemination initiated and completed through workshops and peer contacts, and the detailed planning of the project's dissemination and exploitation programme.
- The project's first annual review with the Commission was successfully completed on the 18th May 2005.

3.2 Progress in implementation of the 'Description of Work' / Problems encountered

The project's workplan has progressed as intended with the tasks and deliverables scheduled to this point in the project having been completed.

There have been no issues or unexpected problems that have impacted the project's schedule, costs or quality.

3.3 Objectives achievement

eu-DOMAIN has achieved its aimed objectives for this reporting period with progress against these as follows:

Objectives	Progress towards achieving objectives
Initiate the project and put in place its operational	The project was successfully initiated from its kick-off meeting held in London in June 2004.
project management	The project's quality plan has been implemented and a sound framework governing operational project management has been established. Each and every project partner is playing a full and enthusiastic role in the project and is to be congratulated on achieving the innovative pre-contract signature start to the project agreed with the Commission.
Progress the project's operational project management	The project is progressing under its sound managerial framework. Each and every project partner continues to play their full role in the project. The project is currently running to schedule in terms of its objectives achievements and resource usage.
Specify user requirements	The user requirements work has been completed.
- carry out state-of-the-art analysis and scenarios	The Functional user requirements specification has been completed
building.	The Trust and security requirements specification has been completed
	The Societal requirements specification has been completed
	The workflow procedures deliverable has been completed. This was rescheduled for a more logical completion (than first planned) when the architecture specifications were complete.
Complete the eu-DOMAIN architecture specifications	Both the client and server-side architectures specifications have been completed and presented in a combined deliverable D3.1+D4.1.
Initiate the project's dissemination planning and run first phase	Dissemination planning was initiated and the project completed its first phase dissemination and use plans to schedule. Dissemination activities have been progressed by each of the consortium partners.
dissemination programme	An inaugural workshop was participated in - AMI@Work in Brussels 7-9 June 2004 - and further events have been held and planned
	 An important workshop - Bringing Knowledge Management tools to the emerging world of Ambient Intelligence infrastructures - was organised by the consortium and held on 14th-15th October 2004. Future workshops in this are planned.
Build the eu-DOMAIN system	The development of the eu-DOMAIN system has been initiated and is currently being progressed through the building of an early demonstrator system.
Develop business models for eu-DOMAIN deployment	Work has commenced on the definition of business models. This work is running to schedule and will be completed over the next six months.

3.4 Highlights/anticipated problems for next reporting period

It is anticipated that during the next reporting period (project months 13 through 24) the project's work will continue to schedule with no deviations from plan:

- The development and build of the eu-Domain client and server software under workpackages 3 and 4 will be completed.
- The eu-DOMAIN communications infrastructure will be put in place.
- Workpackage 6 Socio economic issues will be completed with the definition of sound business models for eu-DOMAIN deployment validated through European Awareness Scenario workshops.

- The integration of the eu-DOMAIN system components will be approaching completion.
- The dissemination and use plan will be updated and the already established dissemination programme intensified. The project website is being considerably enhanced to support this.
- The project's evaluation and assessment for the second reporting period will be completed.

4. Workpackage progress of the period

4.1 Work progress

The project's workplan has progressed as intended with the scheduled tasks and deliverables completed to plan at this point in the project. There have been no issues or unexpected problems that have impacted the project's work schedule or its related costs or quality.

Workpackage 2 has been completed, Workpackages 1, 3, 4, 6, 9 and 10 progressed to schedule, and preparatory work has been undertaken on Workpackage 5.

An updated project Gantt chart illustrating current progress is provided in Section 5.

Work Package	Activity status				
WP1 Project Management					
T1.1 Project Initiation	This task was completed with the project kick-off meeting in June 2004				
T1.2 Operational Project Management and T1.3 Project reporting	Initiated with operation framework put in place and quality plan implemented. This has been on-going throughout the reporting period.				
WP2 User requirements					
T2.1 Analyse state of the art	Completed and deliverables D2.1and D2.2 finalised				
T2.2 Define trust & security	Completed and deliverable D2.3, D2.4 and D2.5 finalised				
T2.3 Workflow analysis	Completed and deliverable D2.6 finalised.				
WP3 Client side architecture					
T3.1 Software architecture analysis and design	This task is now complete. Architecture has been finalised and documented in combined deliverable with T4.1 results.				
T3.2 OSGI framework on gateways	This task has been commenced to plan. Some preparatory work had already been undertaken in support of other tasks and deliverables.				
T3.3 Research new devices, interactions	Initial research has been completed. This activity is on-going throughout the software development to ensure that the project keeps abreast with state of the art developments.				
WP4 Server side architecture	9				
T4.1 Software architecture analysis and design	This task is now complete. Architecture has been finalised and documented in combined deliverable with T3.1 results.				
T4.2 Network intelligence pool and databases	This task has been commenced to plan. Some preparatory work had already been undertaken in support of other tasks and deliverables.				
T4.3 Application intelligence / Web services	This task has been commenced to plan. Some preparatory work had already been undertaken in support of other tasks and deliverables.				
WP5 Communication infrastr	ructure				
T5.1 Set up communications network	Initial communication infrastructure strategy has been updated in line with WP3 and WP4 finalisation.				
WP6 Socio-economic issues					

T6.1 Business modelling	This task has been commenced to plan. Some preparatory work had already been undertaken in considering the modelling approach and associated key aspects. It has been decided to follow the OBELIX methodology for analysing and defining business models. OBELIX is the output of an earlier IST project.			
WP9 Dissemination & exploit	ation			
T9.1 Dissemination	The project's dissemination and use programme has been progressed in line with the project's Dissemination and Use Plan (DUP). The project website has been considerably enhanced and the DUP updated as a detailed plan for the next phase of dissemination.			
T9.2 Exploitation	Early consideration and discussions on business models were progressed as a precurser to WP6 commencement. WP6 has now been initiated and is benefiting from this early work.			
WP10 Review and assessment				
T10.1 On-going project review	Final outcomes assessment of Workpackage 2 continue to be impacted upon the projects continuing activities.			

4.2 Milestones

The project's target milestones for this reporting period have been attained and are shown in the following table:

Milestone	Planned month	Actual month	Comments
M1.1 Acceptance of the consortium agreement by all partners.	1	3	
M1.2 PID produced for kick off meeting.	2	1	Project successfully initiated – kick-off meeting 21 st & 22 nd June 2004.
M1.3 Timely issuance of a Quality Manual to be used in all parts of the project and in all project material.	3	3	Quality manual adopted by consortium partners and will be updated as necessary throughout project.
M1.4 Timeliness of the planned reviews.	From 5		End of period 1 review held with Commission on 18 th May 2005 before end of period. Also expected to be attained to schedule for periods 2 and 3.
M1.5 Final project report produced.	36		Expected to be attained to schedule
M2.1 Scenarios identifying key technological, socio- economic and business drivers for future technological development have been established and show no adverse impact on the overall concept of the eu-DOMAIN infrastructure.	3	4	Eight scenarios developed and two identified for implementation and validation.
M2.2 The comprehensive set of user requirements specifications based on users behaviours and simulated interaction infrastructure ensuring its market exploitation and social acceptance	6	6	Specifications successfully derived. Social acceptance to be included in validation work.
M3.1 Software architecture is defined in UML with no major points of conflict with user requirements.	9	9	Architecture defined. To be validated in first demonstrator.
M3.2 OSGi framework is operational with testing bundles	18		Expected to be attained to schedule

M3.3 Entire client side infrastructure is operational and can be integrated with the server side structure.	21		Expected to be attained to schedule
M41 Software architecture is defined in UML with no major points of conflict with user requirements.	9	9	Architecture defined. To be validated in first demonstrator.
M4.2 Entire server side infrastructure is operational and can be integrated with the client side structure.	20		Expected to be attained to schedule
M5.1 System architecture approved.	18		Expected to be attained to schedule
M5.2 Network access approved.	18		Expected to be attained to schedule
M5.3 Entire communication infrastructure is operational and can be integrated with the server and client side structure.	26		Expected to be attained to schedule
M6.1 Successful business cases for each of the two user scenarios.	15		Expected to be attained to schedule
M6.2 Successful organisation of European Awareness Scenario Workshops with at least 15 participants in each event.	21		Expected to be attained to schedule
M7.1 Infrastructure testing successful	28		Expected to be attained to schedule
M7.2 Testing and population of user cases successful	31		Expected to be attained to schedule
M8.1 User acceptance of the two user cases.	35		Expected to be attained to schedule
M8.2 At least two potential new users from different domains have emerged and are planning new tests.	35		Expected to be attained to schedule
M9.1 Project presentation completed.	3	2	
M9.2 Inaugural conference held	2	1	AMI communities workshop organised and attended
M9.3 Plan for disseminating and using knowledge.	6	6, 12	Dissemination programme updated from DUP following initial 6 months and at end of month 12.
M9.4 Final plan for disseminating and using knowledge	35		Expected to be attained to schedule
M10.1 Draft evaluation updated at completion of each workpackage.	7 - 36		On schedule at this first period report.
M10.2 Project fully evaluated	36		Expected to be attained to schedule

4.3 Deliverables

The scheduled deliverables for this reporting period have been completed and are shown below. Some small internal changes have been agreed in deliverable responsibility as follows:

- UAAR took on board overall responsibility for the combined deliverable D3.1 and D4.1 client and server architectures.
- The lead responsibility for D3.2 will now be TID rather than UAAR
- FORTH took on board overall responsibility for D4.2 Design guidelines for user interfaces from UAAR.

These do not impact the projects costs or quality or individual partners planned resource allocations.

	Deliverable Code & Name	Planned	Completed	Comments
		month	month	
D1.1	Project Quality Plan	1	3	Delivered with progress report QMR1 for first reporting period
D1.2	Periodic activity, management and	12+24+36	14	First period reports completed.
	financial reports			Period 2 and 3 expected to be delivered to schedule
D1.3	Quarterly progress reports for the commission	3 thru 33		Quarter 3, 6 and 9 reports completed.
	COMMISSION			Remaining reports expected to be delivered to schedule
D1.4	Final project report - activity, management and financial (draft & final versions)	35 & 36		Expected to be delivered to schedule
D2.1	User validation framework plan	3	4	Delivered with progress report QMR1 for first reporting period
D2.2	State of the Art analysis	4	4	Delivered with progress report QMR1 for first reporting period
D2.3	Functional user requirements specifications	6	6	Delivered with progress report QMR2 for second reporting period
D2.4	Trust and security user requirements specifications	6	6	Delivered with progress report QMR2 for second reporting period
D2.5	Societal user requirements specifications.	6	6	Delivered with progress report QMR2 for second reporting period
D2.6	Workflow procedures and potential for innovation	6	9	Delivered with progress report QMR3 for third reporting period
D3.1	Client side architecture specification	9	9	Delivered as combined deliverable with D4.1 with progress report QMR3 for third reporting period
D3.2	Gateway OSGi framework and device communication	18		Expected to be delivered to schedule
D3.3	Design guides and navigation for device interaction	21		Expected to be delivered to schedule
D4.1	Server side architecture specification	9	9	Delivered as combined deliverable with D3.1 with progress report QMR3 for third reporting period
D4.2	Design Guidelines for user interfaces	9	9	Delivered with progress report QMR3 for third reporting period
D4.3	Network intelligence, database and user interfaces	20		Expected to be delivered to schedule
D4.4	Application intelligence and web service provisioning	22		Expected to be delivered to schedule
D5.1	Communication architecture description	21		Expected to be delivered to schedule
D5.2	Prototype of communication infrastructure	26		Expected to be delivered to schedule
D6.1	Proposed business models and business cases	15		Expected to be delivered to schedule
D6.2	Organised European Awareness Scenario Workshops	22		Expected to be delivered to schedule

D6.3	Public reports from the EASW Workshops	22		Expected to be delivered to schedule
D6.4	Validated business models and business cases	22		Expected to be delivered to schedule
D7.1	Test report of prototype platform	31		Expected to be delivered to schedule
D7.2	Testing platform for validation	31		Expected to be delivered to schedule
D7.3	User validation plan for eu-DOMAIN	31		Expected to be delivered to schedule
D8.1	Validation report: The European Service Network	35		Expected to be delivered to schedule
D8.2	Validation report: Healthcare for tomorrow	35		Expected to be delivered to schedule
D8.3	Evaluated platform for take-up activities	35		Expected to be delivered to schedule
D8.4	Take-up guideline and technology watch report	35		Expected to be delivered to schedule
D9.1	Project presentation	2	3	Delivered with progress report QMR1 for first reporting period
D9.2	Project website	2	2	www.eu-domain.eu.com
D9.3	Plan for using and disseminating knowledge (drafts at 6 month intervals)	6 thru 32		First version delivered with progress report QMR2 for second reporting period. Updated version delivered with Period 1 Activity report.
				Further version expected to be delivered to schedule
D9.4	Final plan for using and disseminating knowledge	35		Expected to be delivered to schedule
D9.5	Raising public awareness report	35		Expected to be delivered to schedule
D9.6	Exploitation plans (Draft and final)	16 and 34		Expected to be delivered to schedule
D10.1	Evaluation & assessment report	12+24+35		Period 1 report completed and delivered with this report.
				Period 2 and 3 reports expected to be delivered to schedule

4.4 Deviations from Plan

There are no deviations from plan that affect the projects objectives, timescales or resources at this stage of the project.

D2.6 Workflow analysis has been delivered later than schedule for a more logical completion than first planned. This was in order that prioritisation of workflows for user validation took proper account of the final system architecture specifications.

Both the client and server-side architectures specifications have been completed but are presented in a combined deliverable D3.1+D4.1. This makes the whole architecture more readily understood by the reader and presents a more logical representation of its functionality than if it is separated into two reports.

Some planned man-months have been used ahead of schedule but this is self-levelling as they apply to tasks completed early which will not now require resources later in the project as originally planned.

4.5 Dissemination

eu-DOMAIN has followed its schedule for first year dissemination and has completed the first phase of dissemination activity as planned:

- The project's dissemination and use plans have been documented and implemented as a series of dissemination activities
- A project 'Flyer' has been produced and used to publicise eu-DOMAIN
- The project website has been operational and a dissemination contact list put in place. The website has recently been considerably enhanced with a new layout and added content to support the second more intensive phase of project dissemination.
- A range of presentations have been made at a variety of workshops and other events pertinent to the ambient intelligence research, industrial and healthcare arenas
- Peer contacts have been instigated with a number of projects and organisations in order to explore clustering possibilities
- Articles for peer-reviewed scientific journals are being prepared for publications in the coming reporting period

The following table illustrates some of the above activities:

Date	Title	Number of persons attended + other information
		Clustering activities, contact with other projects & AMI @ work communities established
August 2004 - Website	Website launched at www.eu-domain.eu.com	
16 th September 2004	Press release issued to Commission	
14-15 th October 2004 Bruxelles,	Workshop on KM and AmI technologies	Held in conjunction with the European Commission and the Knowledge Board. Very successful workshop attended by representatives from the AMI community.
22 nd October 2004 in Taastrup	Presentation of eu- DOMAIN	Presentation at a National Contact Point information day meeting held in Taastrup, Denmark. Some 65 people participated.
18 th November 2004	Spanish W3C multimodality seminar	A 1-day workshop organized by the Spanish charter of the W3C to promote W3C multimodality technologies. Software AG presented "Multimodality in Software AG", which included eu-Domain.
15 – 17 th November 2004 in Hague	IST Conference Hague	Clustering with research community - Dissemination of project aims at the IST conference and within AMI work sessions.
24 th November 2004 in Odense	Presentation of eu- DOMAIN	Presentation at a National Contact Point information day meeting held in Odense, Denmark. Some 25 people participated.

17 – 21 st January 2005 in Darmstadt	Software AG EII workshop	Knowledge about Enterprise Information Integrator regarding its usage in eu-Domain presented by Software AG.
Jan 19 th 2005 in Aarhus	SummIT 05	200 attendees, eu-DOMAIN architecture presented.
January 2005 in Madrid	eu-DOMAIN advantages and applications.	The eu-DOMAIN project advantages and applications were presented in a workshop hosted in Telefónica, Madrid, Spain.
March 2005 in Boecillo	The eu-DOMAIN project	The eu-DOMAIN project was presented in a workshop hosted in Telefónica, Boecillo, Castilla y León, Spain.
15 th March 2005 in Copenhagen	Security in Apparatuses	Security and Pervasive computing. Presentation by Alexandra Institute using eu-DOMAIN as example.
5 th May 2005	Master on e-Commerce by Universidad Autónoma of Madrid	eu-DOMAIN presented in the context of SOA-based projects
19-20 th May 2005 in Budapest	AMI workshop	Clustering activities, contact with other projects and preparations for future follow-up projects.
17 – 22 nd May 2005 in Zaragoza	Connectiva Fair	Distribution of eu-DOMAIN and poster presentation by TID
May 2005	CEDI 2005	Paper submitted for presentation in September 2005.

5. Consortium management

5.1 Contractual

In agreement with the European Commission the project partners commenced the eu-DOMAIN project on the 1st June 2004 ahead of the contract being signed. This was to avoid delays and get the project up and running as quickly as possible. The was a clear demonstration by the partners of their considerable enthusiasm for the project by adopting this innovative approach in agreement with the Commission.

Subcontracting negotiation is currently ongoing between UAAR and LIWAS for work on vehicle gateways and is expected to be completed during the next two months.

There is a close working relationship between UAAR and the Alexandra Institute on research matters. In the case of eu-DOMAIN there is no sub-contracting arrangement required for this as there are no financial transfers necessary or IP rights to be devolved. However, the consortium partners feel it is only fair that throughout future demonstration stages the project recognises the role of the Alexandra Institute and provides them with the associated 'kudos' of eu-DOMAIN involvement and for convenience intend to list them as a 'Contributor' to the consortium in the dissemination material.

No other contractual issues have arisen during the course of the first reporting period.

5.2 Coordination and work schedule

It can be seen from Section 3 of this report that good progress has been made against the project's workplan and towards achieving the projects aims and objectives. An updated project GANTT chart showing current progress is shown under 5.5 below.

The project deliverables due in the first reporting period have been completed and the resource usage and costs incurred are running in line with the project schedule and activities undertaken to date. Actual person-months are slightly above planned months for this point in the project as some of the work planned for Workpackages 3, 4, 5 currently runs ahead of schedule. The project is well placed for maintaining its schedule to project conclusion. Project resource usage is shown under 5.4 below.

The project partners have worked closely together and supported each other in a highly professional and committed manner. The roles of the partners are illustrated in the table under 5.3 – Partner activities. Excellent liaison between the project partners and wider audience has been maintained throughout the past 12 months and a number of project meetings and workshops have been held, including:

Title	Data and Place	Main conclusions
Initial Project Board kick- off meeting	21 st -22 nd June 2004, London	Confirmation of successful project initiation. Agreed strategy and approach for user scenarios building and initial evaluation of technical architectures to be adopted.
Workshop planning meeting	27 July 2004 in Birmingham	Agreement of potential use cases and decision on the clinical domain to be used in the healthcare user scenario
Workshop planning meeting	6 August 2004 in Bjerringbro	Agreement of potential use cases and decision on the business unit to be used in the industrial user scenario
Scenario Thinking Workshop	11 August 2004 in Bjerringbro	IDON scenario workshop resulting in definition of the industrial user scenario

Scenario Thinking Workshop	1 September 2004 in Birmingham	IDON scenario workshop resulting in the definition of the healthcare user scenario
2 nd Project steering meeting	4 th -5 th October 2004 in Madrid	Agreed: finalisation of user requirements security approach strategy and approach adopted for client and server side architectures.
Architecture and security Workshop	28 th and 29 th October 2004 in Aarhus, Denmark	Agreement on components of client-side architecture and security framework
Server-side architecture workshop	25th November 2004 at CNet in Sweden	Agreement on components of server-side architecture
3 rd Project steering meeting	27 th -28 th January 2005 in Heraklion, Crete	Agreed finalisation of client and server side architectures.
4 th Project steering meeting	18 th -19 th April 2005 in Rome	Confirmation of development approach. Workflow prioritisation and proof of concept strategy through early demonstrators.
		Phase 2 dissemination strategy and plans agreed.
First annual review	18 th May 2005 Budapest	Successful review. Project agreed to be meeting good progress. Useful input from EC reviewers being taken on board along with formal review report recommendations.

5.3 Partner activities

The following table illustrates activities undertaken by the eu-DOMAIN consortium partners during the first reporting period from 1st June 2004 to 31st May 2005:

	1										
Workpackage / activity	CIL	Innova	In-JeT	UAAR	FORTH	CNet	T-CON	SAG	TID	Grundfos	ЕВРСТ
WP1 Project management - Led by CIL	-11										
Prepare for, attend and follow-up project steering meetings											
Host project steering meeting											
Day-to-day overall operational project management and coordination											
Local partner project management and reporting to CIL											
Overall day-to-day technical coordination											
Draft and implement quality manual											
Contract, quality and risk management - EC reporting											
WP2 User requirements specification - Led by Innova											
Research and define business and technical state of the art											
Document state of the art											
Run user scenario workshops											
Run security workshops											
Attend scenario/security workshops											
Analyse, define and document trust and security requirements											
Analyse, prioritise and map out workflows											
Build and document user scenarios											
Research and specify societal requirements											
Define user requirements and validation framework											
Document user requirements and validation framework											
WP3 Client side architecture - Led by UAAR											
Appraise available client side technology											
Run technical design workshops											
Attend workshops											
Build client-side architecture definitions											
Review client-side architecture definitions											
Research new devices and impact on architecture											
Research and recommend OSGi solutions											
Document client side architecture											

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Workpackage / activity	CIL	Innova	In-JeT	UAAR	FORTH	CNet	T-CON	SAG	TID	Grundfos	ЕВРСТ
	CIL	IIIIIOVA	111-361	UAAK	FORTH	Civel	7-001	SAG	שוו	Granaios	EBPCI
WP4 Server side architecture - Led by Cnet		ī			_						-
Appraise available server side technology											
Run technical design workshops											
Attend workshops											
Build server-side architecture definitions											
Review server-side architecture definitions											
Domain modelling. Research web service and semantic web related standards											
Agree development tools environment - tools											
Design and put in place eu-DOMAIN technical development environment											
Define and document design guidelines for user interfaces											
Host eu-DOMAIN development environment											
Document server side architecture											
Design and build early (GRUNDFOS) demonstrator											
WP5 Communication infrastructure - Led by TID											
Outline initial communications topologies											
On-going appraisal in line with architecture definitions											
WP6 Socio economic issues - Led by Innova											
Initial consideration of eu-DOMAIN deployment business models											
EASW workshop planning											
WP9 Dissemination and exploitation - Led by CIL											
Initial analysis for Dissemination and Use Plans											
Draft dissemination and use plan											
Disseminate eu-DOMAIN through workshops and peer contacts											
Competitor watch - technical and business											
Set up and maintain website											
WP10 Review and assessment - Led by CIL											
Review of project progress against plans											
Log progress and quality checks											
Quality review of project results											

5.4 Project Effort

The following table shows resource usage for each partner to the 31st May 2005.

Cumulative effort to date in person-months A=Actual effort / P = Plan to date			RTD &	Innova	ition Ac	tivities													Manag Activ	ement vities		TALS
	WP	02	WP 03		WP 04		WP	05	5 WP		WP	07	WF	08	WP	09	WF	P10	WP	01		
Contractor	А	Р	Α	Р	Α	Р	Α	Р	Α	Р	Α		Α	Р	Α	Р	Α	Р	Α	Р	Α	Р
C International (CO)	2.20	2.00							0.50	0.50					1.25	1.75	0.75	0.75	6.60	7.00	11.30	12.00
Innova S.p.A.	21.68	13.00							2.25	4.00					0.32	1.00	0.25	0.50	1.00	1.10	25.50	19.60
In-JeT ApS	3.30	5.00	0.60	0.40	2.00	2.50			0.60	0.60			0.30		2.00	1.60	0.00	0.50	1.90	1.20	10.70	11.80
University of Aarhus	5.25	5.00	7.80	8.50	1.05	1.50											0.20	0.50	0.20	0.30	14.50	15.80
Foundation for Research and Technology – Hellas	0.00	4.00	13.75	10.00	6.50	6.00									0.40	0.50	0.25	0.50	0.10	0.10	21.00	21.10
CNet Svenska AB	4.90	0.90	1.20	1.00	18.60	16.00									1.00	1.00	0.30	0.50	1.00	1.00	27.00	20.40
T-connect s.r.l.	1.38	0.00	3.00	3.75	3.00	3.50									0.25	0.30	0.15	0.25	0.20	0.20	7.98	8.00
Software AG Belgium SA					5.55	7.00							0.31				0.45	0.50	0.28	0.10	6.59	7.60
Telefónica I+D	2.62	0.00	7.12	5.50	7.26	7.60	1.40	2.50	1.20	1.20					0.20	0.20	0.30	1.00	0.12	0.12	20.22	18.12
Grundfos Management A/S	2.38	4.00	2.00												0.25	0.50	0.22	0.25	0.10	0.10	4.95	4.85
Eastern Birmingham Primary Care Trust	2.33	4.00	0.60												0.25	0.50	0.22	0.10	0.10	0.10	3.50	4.70
	46.04	37.90	36.07	29.15	43.96	44.10	1.40	2.50	4.55	6.30	0.00	0.00	0.61	0.00	5.92	7.35	3.09	5.35	11.60	11.32	153.24	143.97

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5.5 Progress against workplan

The following table shows progress against the project's activity workplan as at 31st May 2005:

	Year/Quarter		1/1			1/2	1/3				1/4		2/1			2/2			2/3		2/4			3/1			3/2			3/3				3/4	\neg	
	Month	1	2	3	1	2 3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	= Completed work		I	l - I	l	1		ı		ı	ı			l I]		1 1		l l	1	- 11	ı	I		ı	J		I.	l I		J	ı	II	ı	J	ı
	= Pending work										Ų.	31 ^{s1}	^t Ma	y 20	005																					
P1	Project management													ĺ										I		1										
T1.1	Project initiation						t																													
T1.2	Operational project management																																			
T1.3	Project reporting																																			
WP2	User requirement specifications																																			
T2.1	Analyse State of the Art																																			
T2.2	Define trust and security requirements																																			
T2.3	Workflow analysis and optimisation																																			
WP3	Client side architecture																																			
T3.1	Software architecture analysis & design																																			
T3.2	OSGI framework on gateways																																			
T3.3	Research new devices, interactions.																																			
WP4	Server side architecture																																			
T4.1	Software architecture analysis & design					_ _	_	_	_																											
T4.2	Network intelligence pool & databases									_	1					_	_		_																	
T4.3	Application intelligence / web services									_						_	_		_	_	_	_														
WP5	Communications infrastructure																																			
T5.1	Set up fixed/mobile comms. networks																																			
T5.2	Set up TETRA network																																			
WP6	Socio-economic issues																																			
T6.1	Business modelling																																			

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eu-DOMAIN

D1.2.1 Period 1 Activity Report

		Year/Quarter		1/1		1/2			1/3			1/4		2/1			2/2			2/3		2/4			3/1				3/2			3/3			3/4			
		Month	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
T6.2	European w/shops																																					
WP7		System integration																																				
T7.1	Integration of system components																																					
T7.2	Technical	I testing overall platform																																				
T7.3	Testing a	and user scenarios																																				
T7.4	Validation	n plans																																				
WP8	Te	esting and validation																																				
T8.1	Validation	n of ESN																																				
T8.2	Validation	n of Healthcare tomorrow																																				
T8.3	Preparation up	on for exploitation & take-																																_	_			
WP9	Dissemina	ation and exploitation																																				
T9.1	Project di	issemination																																				
T9.2	Exploitati	ion																																				
WP10	Review a	nd Assessment																																				
T10.1	On-going	project review																																				
T10.2	Final asse	essment																																				

6. ANNEX A: Dissemination and USE Plan

Updated project Dissemination and Use Plan attached with this report