

### **Project co-ordinator contact**

Name: S Swift  
Address: C International Ltd.,  
The Manor, Haseley Business Centre  
Warwick CV35 7LS  
Phone Numbers: (+44) 024 76 537043 Fax Numbers: (+44) 024 76 247220  
E-mail [sswift@cinternational.co.uk](mailto:sswift@cinternational.co.uk)  
Project web site [www.eu-domain.eu.com](http://www.eu-domain.eu.com)

### **Executive Summary**

#### **Main achievements**

During this first four-month reporting period the eu-DOMAIN project has proceeded to schedule achieving all its set objectives for the period:

- The project has been successfully initiated, from the pre-contract signature date agreed with the Commission of the 1<sup>st</sup> of June 2004, within a sound management and quality framework.
- The project's state-of-the-art analysis is completed and documented, and has been impacted upon the user functional requirements analysis work currently underway.
- Innovative user scenarios have been finalised with the two user partners and these are henceforward the focus for eu-DOMAIN deployment and validation.
- The project's dissemination has been initiated through workshops and detailed planning of the project's dissemination and exploitation programme is underway.
- Preliminary assessment of the architectures of the eu-DOMAIN client and server side architectures has been undertaken ahead of schedule.

#### **Progress in implementation of the 'Description of Work'/Problems encountered**

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 unexpected problems or issues that have impacted the project's schedule, costs or quality.

The project's resource usage is running to plan. Actual man-months are slightly above planned months for this point in the project but this is due to the fact that some of the work planned for Workpackages 3,4 and 5 have been commenced ahead of schedule.

#### **Highlights/anticipated problems for next reporting period**

It is anticipated that the project's work will continue on schedule with no deviations from plan:

- User requirements specification will be completed with the finalisation of the
  - Functional and societal user requirements
  - Trust and security requirements
  - Workflow analysis.
- The design and development of the client and server side architectures will commence with design workshops (also encompassing security requirements) scheduled for the end of October and mid-November.
- The project's dissemination and use plan will be published at the end of November.
- Workpackage 2 – user requirements specifications will have been completed and subjected to evaluation and assessment.

## **1 – Overview**

### **1.1 Objectives attainment**

eu-DOMAIN has achieved its aims for this reporting period with progress against the set objectives as follows:

<i>Objectives</i>	<i>Progress towards achieving objectives</i>
<input type="checkbox"/> Initiate the project and put in place its operational project management	<ul style="list-style-type: none"> <li>• The project has been successfully initiated from its kick-off meeting held in London in June.</li> <li>• 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.</li> </ul>
<input type="checkbox"/> Specify user requirements - carry out state-of-the-art analysis and scenarios building.	<ul style="list-style-type: none"> <li>• The user requirements work has been commenced and is on course to be completed to schedule during the next reporting period</li> <li>• The State-of -the-art has been analysed and fully documented</li> <li>• The user partners have been engaged in scenario building and the eu-DOMAIN scenario for each of the user partners has been agreed and documented. These are now the focus for eu-DOMAIN's system design, deployment and validation. This work has also facilitated and earlier than scheduled start to the technical architecture specification work.</li> </ul>
<input type="checkbox"/> Initiate the project's dissemination planning	<ul style="list-style-type: none"> <li>• Dissemination planning has been initiated and the project is on course to produce its dissemination and use plans to schedule.</li> <li>• Dissemination activities have been commenced by the partners.</li> <li>• An inaugural workshop has been participated in - AMI@Work in Brussels 7-9 June 2004 - and further events have been firmly planned</li> </ul>

### **1.2 - Summary of work done in this reporting period**

The project's workplan has progressed to schedule this period with some work for Workpackages 3, 4 and 5 being commenced ahead of schedule.

<i>Work Package</i>	<i>Activity status</i>
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.	Initiated with operation framework put in place and quality plan implemented
WP2 User requirements	
T2.1 Analyse state of the art	Fully completed and deliverables D2.1 and D2.2 finalised
T2.2 Define trust & security	Initiated, work currently on-going and on schedule for completion in next reporting period

T2.3 Workflow analysis	Initiated, work currently on-going and on schedule for completion in next reporting period
WP3 Client side architecture	
T3.1 Software architecture analysis and design and	Initial analysis of client-side architectural and security requirements to support user scenarios has been undertaken
WP4 Server side architecture	
T4.1 Software architecture analysis and design and	Initial analysis of server-side architectural requirements to support user scenarios has been undertaken
WP5 Communication infrastructure	
T5.1 Set up comms network	Initial infrastructure schema has been drafted
WP9 Dissem. & exploitation	
T9.1 Dissemination	Initiated with initial workshop attendances and detailed planning of DUP is underway
T9.2 Exploitation	Detailed exploitation planning for DUP commenced. Consideration and discussions on business models initiated

### **1.3 Summary of work planned for the next reporting period (Oct 04 to Nov 04)**

It is anticipated that the work schedule for the next reporting period will progress to plan.

<i>Work Package</i>	<i>Activity status</i>
WP1 Project Management	
T1.2 Operational P.M.	On-going throughout next reporting period
WP2 User requirements	
T2.2 Define trust & security	Will be completed on schedule during the next reporting period
T2.3 Workflow analysis	Will be completed on schedule during the next reporting period
WP3 Client side architecture	
T3.1 Software architecture analysis and design and	Initial analysis has already commenced and the design work will be taken forward on this basis and the outcomes of the workshops to be held 28 <sup>th</sup> and 29 <sup>th</sup> October
T3.2 Research new device interactions	“
WP4 Server side architecture	
T4.1 Software architecture analysis and design and	Initial analysis has already commenced and the design work will be taken forward on this basis and the outcomes of the workshops to be held in November at CNet
WP9 Dissemination & exploitation	
T9.1 Dissemination and T9.2 Exploitation	The project's Dissemination and Use Plan will be published and the dissemination programme extended
WP10 Review and assessment	
T10.1 On-going project review	The outcomes of Workpackage 2 will be reviewed and assessed and the framework for on-going project review and assessment put in place

#### 1.4 Milestones

The project's target milestones for this reporting period have been attained and are shown below. Cumulative progress against the project's milestones is shown in Annex A.

<i>Milestone</i>	<i>Planned month</i>	<i>Actual month</i>	<i>Comments</i>
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 <sup>st</sup> & 22 <sup>nd</sup> 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	
M2.1 Scenarios identifying key technological, socio-economic and business drivers for future technological development has been established and show no adverse impact on the overall concept of the eu-DOMAIN infrastructure	3	4	Some time lost due to holiday period during July and August but this was pulled back during September
M9.1 Project presentation completed	3	2	
M9.2 Inaugural conference held	2	1	Initial dissemination launched AMI @ work communities 7-9 <sup>th</sup> June 2004

#### 1.5 Deliverables

All scheduled deliverables for this reporting period have been completed and are shown below. Cumulative progress against the project's deliverables schedule is shown in Annex A.

<i>Deliverable Code &amp; Name</i>	<i>Planned month</i>	<i>Completed month</i>	<i>Comments</i>
D1.1 Project Quality Plan	1	3	Delivered with progress report QMR1 for first reporting period
D1.3 Quarterly progress reports for the commission	4	5	This report QMR1 revised to cover months 1 thru 4
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
D9.1 Project presentation	2	3	Delivered with progress report for first reporting period
D9.2 Project website	2	2	www.eu-domain.eu.com

### 1.6 Deviations from Plan

<i>Causes and Description</i>	<i>Corrective actions</i>
There are no deviations from plan at this stage of the project	

### 2 – Contractual Arrangements

In agreement with the European Commission the project partners commenced the project on the 1<sup>st</sup> June 2004 ahead of the contract being signed by the Commission. This was to avoid delays and get the project up and running as quickly as possible. The partners have clearly demonstrated their considerable enthusiasm for the project by adopting this innovative approach in agreement with the Commission.

The contract has now been signed by the partners and the Commission, and the advance payment is expected by mid November 2004.

### 3 - Project Meetings/Visits (held and foreseen)

<i>Title</i>	<i>Data and Place</i>	<i>Main conclusions</i>
Initial Project Board kick-off meeting	21 <sup>st</sup> -22 <sup>nd</sup> 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 <sup>nd</sup> Project steering meeting	4 <sup>th</sup> -5 <sup>th</sup> October 2004 in Madrid	
Architecture and security Workshop	28 <sup>th</sup> and 29 <sup>th</sup> October 2004 in Aarhus, Denmark	
Server-side architecture workshop	November 2004 at CNet in Sweden	
User partner software architecture workshop	December 2004.	

#### **4 - Dissemination / Promotional Information**

##### **4.1 Conferences and/or Workshops attended/organised/foreseen by the project**

<i>Date</i>	<i>Title</i>	<i>Number of persons attended + other information</i>
7-9 June 2004 in Bruxelles	AMI @ Work communities	Clustering activities, contact with other projects & AMI @ work communities established
14-15 October 2004 Bruxelles,	Workshop on KM and AmI technologies	Planned together with the European Commission and the Knowledge Board. Sponsors and logistics agreed
November 2004	IST Conference Hague	Planning presentation of project content at the IST conference in November

##### **4.2 Articles Published, Press coverage, development web sites, etc.**

<i>Date and Type</i>	<i>Details</i>
August 2004 Website	Website launched at <a href="http://www.eu-domain.eu.com">www.eu-domain.eu.com</a>
16 <sup>th</sup> September 2004 Press release	Press release issued to Commission

#### **5 – Main results**

<i>Description</i>	<i>Details</i>
State of the Art	The current state-of-the-art of the technologies applicable to eu-DOMAIN has been analysed and documented. Its findings have been impacted upon the user functional requirements including the initial consideration of the eu-DOMAIN technical architecture. An on-going technology watch will be maintained throughout the project to ensure optimum use of state-of-the-art developments.
User scenarios	<p>The analysis, agreement and definition of the user scenarios have been achieved. A total of 8 scenarios has been written up, four in each of the user domains. One for each domain has been selected for eu-DOMAIN. Each is a very innovative and challenging opportunity to take the business of the user forward.</p> <p>For Grundfos it is: <b><i>‘Serving your every need!’</i></b>: <i>In a world where customers are the primary driving force in shaping product characteristics, features and use of pumps, combined with the existence of a sophisticated communication infrastructure, i.e. the 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 value created by the “ambient intelligence” functionality of the pump becomes a major part of the customers overall value creation. The pumps are “serving you – wherever you are – whatever you do – whenever you want it”.</i></p> <p>In the field of Healthcare the focus is <b><i>‘Patients as customers!’</i></b>: <i>The healthcare system is multi-faceted. A large amount 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 her/his needs.</i></p>

## 6 – Project Effort

Project effort for this reporting period in Person-months:  
*A=Actual effort / P = Plan to date*

	RTD & Innovation Activities																		Management Activities		TOTALS	
	WP 02		WP 03		WP 04		WP 05		WP 06		WP 07		WP 08		WP 09		WP 10		WP 01		A	P
Contractor	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P		
C International (CO)	1.1	1.0													0.3	0.5			1.8	2.0	3.2	3.5
Innova S.p.A.	11.96	10.0																	0.04	0.04	12.0	10.04
In-JeT ApS	3.0	3.3													0.3	0.4			0.3	0.3	3.6	4.0
University of Aarhus	3.15	3.0	0.5	0.0															0.05	0.04	3.7	3.04
Foundation for Research and Technology – Hellas	0.5	0.75																			0.5	0.75
CNet Svenska AB	2.6	0.9			1.3	0.0									0.3	0.3			0.1	0.1	4.3	1.3
T-connect s.r.l.	0.46	0.0																	0.04	0.04	0.5	0.04
Software AG Belgium SA					0.33	0.0													0.03	0.03	0.36	0.03
Telefónica I+D	1.46	0.0	0.3	0.0	0.2	0.0	0.3	0.0											0.04	0.04	2.3	0.04
Grundfos Management A/S	1.28	1.98																	0.02	0.02	1.3	2.0
Eastern Birmingham Primary Care Trust	1.08	1.98																	0.02	0.02	1.1	2.0
	26.59	22.91	0.8	0.0	1.83	0.0	0.3	0.0							0.9	1.2			2.44	2.63	32.86	26.74

Cumulative effort  
 to date in person-months  
 A=Actual effort / P = Plan to date

Contractor	RTD & Innovation Activities																		Managmnt Activities		TOTALS	
	WP 02		WP 03		WP 04		WP 05		WP 06		WP 07		WP 08		WP 09		WP10		WP 01		A	P
	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P				
C International (CO)	1.1	1.0													0.3	0.5			1.8	2.0	3.2	3.5
Innova S.p.A.	11.96	10.0																	0.04	0.04	12.0	10.04
In-JeT ApS	3.0	3.3													0.3	0.4			0.3	0.3	3.6	4.0
University of Aarhus	3.15	3.0	0.5	0.0															0.05	0.04	3.7	3.04
Foundation for Research and Technology – Hellas	0.5	0.75																			0.5	0.75
CNet Svenska AB	2.6	0.9			1.3	0.0									0.3	0.3			0.1	0.1	4.3	1.3
T-connect s.r.l.	0.46	0.0																	0.04	0.04	0.5	0.04
Software AG Belgium SA					0.33	0.0													0.03	0.03	0.36	0.03
Telefónica I+D	1.46	0.0	0.3	0.0	0.2	0.0	0.3	0.0											0.04	0.04	2.3	0.04
Grundfos Management A/S	1.28	1.98																	0.02	0.02	1.3	2.0
Eastern Birmingham Primary Care Trust	1.08	1.98																	0.02	0.02	1.1	2.0
	26.59	22.91	0.8	0.0	1.83	0.0	0.3	0.0							0.9	1.2			2.44	2.63	32.86	26.74



## Annex A

### A.1 Cumulative status of Project Milestones

<i>Milestone</i>	<i>Planned month</i>	<i>Actual month</i>	<i>Comments</i>
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 <sup>st</sup> & 22 <sup>nd</sup> 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	
M1.4 Timeliness of the planned reviews.	From 5		Expected to be attained to schedule
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 has been established and show no adverse impact on the overall concept of the eu-DOMAIN infrastructure.	3	4	
M2.2 The comprehensive set of user requirements specifications based on users behaviours and simulated interaction with eu	6		Expected to be attained to schedule
M3.1 Software architecture is defined in UML with no major points of conflict with user requirements.	9		Expected to be attained to schedule
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
M4.1 Software architecture is defined in UML with no major points of conflict with user requirements.	9		Expected to be attained to schedule
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	
M9.3 Plan for disseminating and using knowledge.	6		Expected to be attained to schedule
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.			Expected to be attained to schedule
M10.2 Project fully evaluated	36		Expected to be attained to schedule

## A.2 Cumulative status of Project Deliverables

<i>Deliverable Code &amp; Name</i>	<i>Planned month</i>	<i>Completed month</i>	<i>Comments</i>
D1.1 Project Quality Plan	1	3	Delivered with progress report QMR1 for first reporting period
D1.2 Periodic activity, management and financial reports	12+24+36		Expected to be delivered to schedule
D1.3 Quarterly progress reports for the commission	3 thru 33		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		Expected to be delivered to schedule
D2.4 Trust and security user requirements specifications	6		Expected to be delivered to schedule
D2.5 Societal user requirements specifications.	6		Expected to be delivered to schedule
D2.6 Workflow procedures and potential for innovation	6		Expected to be delivered to schedule
D3.1 Client side architecture specification	9		Expected to be delivered to schedule
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		Expected to be delivered to schedule
D4.2 Design Guidelines for user interfaces	9		Expected to be delivered to schedule
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 for first reporting period
D9.2	Project website	2	2	<a href="http://www.eu-domain.eu.com">www.eu-domain.eu.com</a>
D9.3	Plan for using and disseminating knowledge (drafts at 6 month intervals)	6 thru 32		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		Expected to be delivered to schedule