

## **Year 1 Progress Report : CRISTAL-ISE project May 2012 to April 2013**

The following workpackages have been initiated and the associated progress can be reported:

**Workpackage 1** Project Management (Start Month 1, Duration 48 months) Lead : UWE

Kick off meeting at Alpha3i (Alpha3i, Rumilly) 11/05/12. Progress meetings scheduled for September 2012 (UWE) and January 2013 (M1i, Annecy). Secondment of McClatchey to Alpha3i M1-2 and to M1i M10-11

Tasks completed :

- T1.1 Created management procedures guide, PMT setup, progress monitoring.
- T1.2 Carried out regular PMT reviews, every 6 weeks interspersed with teleconferences.
- T1.4 Liaised with EC, production of project deliverables.
- T1.5 Established dissemination plan.
- T1.6 Created web-site and begun population with project data.

**Workpackage 2** Requirements Analysis (Start Month 1, Duration 15 months) Lead : UWE

Regular meetings held in M1&2 at Alpha3i, Rumilly; M3-12 at M1i, Annecy. Secondments of McClatchey & Branson to Alpha3i (M1-2), Branson to M1i (M7-12) and Shamdasani to M1i (M5-12)

Tasks completed :

- T2.1 Gathered and analysed system requirements from M1i and Alpha3i. Branson, Gattaz and Shamdasani have gained a thorough understanding of the development history of both the CRISTAL kernel and Agilium, where differences lie, and the root causes of problems in Agilium caused by misalignment with the kernel.
- T2.2 Conducted analysis workshop and brainstorming meetings.
- T2.3 Carried out thorough review of existing CRISTAL kernel functionality. Greatly enhanced Gattaz' s knowledge of the CRISTAL kernel design. Identified key areas where the kernel should be made more generic or pluggable to add flexibility to support Agilium's requirements.
- T2.4 Produced an initial analysis model (M9) refined for delivery at M12.

**Workpackage 3** Kernel Design & Development (Start Month 9, Duration 27 months ) Lead : UWE

Regular meetings held M9-12 at M1i, Annecy. CRISTAL Kernel training course held M11 at UWE, Bristol. OSGi training course held M12 at M1i, Annecy. Secondments of McClatchey & Branson to Alpha31 (M1-2), Branson to M1i (M7-12) and Shamdasani to M1i (M5-12)

Tasks completed :

- T3.1 Technology evaluation (M9-12) almost complete. Attended OSGi course. Experimental implementation of eXist Native XML Backend produced. Apache Directory Server investigated.
- T3.2 Initiated Kernel consolidation work. Trained staff and students at UWE for later involvement in the project.
- T3.3 Started the design of the new CRISTAL Kernel from initial analysis model.

**Workpackage 7** Dissemination/Outreach (start Month 1, Duration 48 months) Lead : Alpha3i

Regular meetings held in M1&2 at Alpha3i, Rumilly; M3-12 at M1i, Annecy.

Secondments of McClatchey & Branson to Alpha31 (M1-2)

- T7.1 Preparation of academic papers – paper presented to SWPM 2012 at the European Semantic Web Conference (ESWC 2012, Heraklion Crete July 2012) and poster at International Conference on Enterprise Information Systems (ICEIS 2012, Wroclaw, Poland July 2012).
- T7.4 Production of project flyers and marketing information initiated.
- T7.5 Attendance by M1i and Alpha3i at several trade shows during 2012-2013.

**Project deliverables** produced:

1. Management procedures guide (D1.1).
2. Dissemination/concertation strategy document (D1.3).
3. Initial project web-site (D1.4 to be refined).
4. Year 1 Summary report (D1.2).
5. Initial Analysis Model (D2.1).
6. Academic papers (D7.1).

**Secondments:**

McClatchey & Branson (ER>10 years) to Alpha3i : During the first two months of the project these two experienced researchers were seconded from UWE offices to Alpha3i working with Pierre Bornand, Bruno Malagola and other staff to collect, assimilate and consolidate the user requirements for the CRISTAL technology from Alpha3i. Regular brainstorming sessions were held together with demonstrations of software and evaluation of technologies suitable for the project. Visits were also undertaken from Rumilly to Annecy to involve M1i staff (Patrick Emin, Olivier Gattaz and Sandra Massonnat) with the requirements elicitation process and to determine any M1i-specific requirements. Gattaz and Massonnat will later be seconded from M1i to UWE offices.

Branson (ER>10) & Shamdasani (ER < 10 years) : These two CRISTAL experts were seconded from UWE offices to M1i in M7-12; Shamdasani was also seconded from M5-6 to M1i. This period at the M1i offices in Annecy focused on knowledge transfer, as the secondees learnt about the fine implementation details of Agilium, and the commercial requirements that led to its current design. Also, Gattaz, Massonnat and Emin from M1i gained a greater understanding of the inner workings of the CRISTAL kernel from the secondees, and the group together fixed long-standing bugs and started to redesign Agilium to be more faithful to the original design of CRISTAL. From M6 Florent Martin from Alpha3i joined the discussion to learn about both Agilium and CRISTAL – he will be seconded from Alpha3i to UWE offices from M18. From M9 CRISTAL-ISE members concentrated on the Kernel design and development of workpackage 3.

McClatchey (ER>10) was seconded from UWE to M1i for a total period of two months between M9 and 12 of the project. McClatchey worked with the UWE staff at M1i to develop the initial analysis model whose first draft was reviewed in M10 of the project and whose final deliverable was issued at M12.

**Overall Statement of Progress.**

Very strong collaboration has been established between the three participants in this project. There is very great involvement of M1i development staff with the seconded UWE staff and good, regular contact with Florent Martin from Alpha3i. Knowledge exchange on both sides has been very successful, leaving both academic and commercial participants with a detailed understanding of the other side. Agreement has been reached on how the CRISTAL Kernel will be amended to service the requirements of M1i and Alpha3i, and how the M1i product Agilium will be rewritten to more closely follow the CRISTAL design intentions. The initial analysis model has been issued and that development has already been initiated (in WP3) by Branson and Shamdasani with McClatchey's overall project management. All of the year1 objectives have been reached and progress has started on year2 objectives.

There were some delays in getting Martin and Gattaz in place at the start of the project. This will mean that the start of some of the Year2 secondments will consequently be delayed from M13 to M17 or M18, but this will not affect the execution of the project.