

Project Number: IST-2001-33234
Project Acronym: PEPITO
Title: PEer-to-Peer Implementation and TheOry
Peer-to-peer Oz platform (2)
Due date: project month 30
Delivery Date: 2004-06-30
Responsible Partner: UCL
Participating Partners: UCL, SICS

Deliverable no:	D3.6
Title:	Peer-to-peer Oz platform (2)
Workpackage no:	WP3
Due date:	30
Delivery date:	30

Short Description

This deliverable represents the second report on the progress in workpackage3 with respect to the development of the “peer-to-peer Oz platform”, a task towards the objective of extending Oz-Mozart with peer-to-peer abstractions.

Throughout the document we describe our platform, called P2PS – Peer-to-Peer System, focusing on its functionality as well as on its architecture. The P2PS library is developed in Oz-Mozart and it implements Tango, a distributed hash table based algorithm developed in workpackage2. P2PS is organized into a structured overlay network offering efficient point-to-point, multicast and broadcast communication primitives, as well as low cost overlay network management. From its functionality, one can see that P2PS is simple and very practical to construct and work with large scale distributed applications.

The P2PS library is available to be (and it is already) used for developing P2P applications. We describe two realistic applications that use it. They are Community-Panel and PostIt; applications being developed in collaboration with CETIC and respectively INRIA.

The P2PS library is delivered as a software package containing the source code together with an API documentation and a user tutorial. The software package can be found in the attached documents of this deliverable together with a document describing its API.

Partner owning:	UCL
Partner contributing:	UCL, SICS
Available to:	Public