

Project Number: IST-2001-33234  
Project Acronym: PEPITO  
Title: PEer-to-Peer Implementation and TheOry  
Basic distribution subsystem (prototype)  
Subworkpackage WP 4.1  
Due date: project month 12  
Delivery Date: 2002-12-31  
Responsible Partner: SICS  
Participating Partners: SICS, UCL

Deliverable no:	D4.1
Title:	Basic distribution subsystem (prototype)
Workpackage no:	WP4
Due date:	12
Delivery date:	12

Short Description

The deliverable is first prototype of the middleware that implements the basic distribution subsystem subworkpackage of WP 4: The Distribution Subsystem

The deliverable is in the form of a software package, containing the code of the first prototype of the DSS middleware together with instructions of how to compile and construct the middleware software component. A description of the design together with an API description can be found in deliverable D4.2 and attached documents.

The results of the project in this deliverable together with the prototype implementation are twofold. First, as is, they represent a novel language-oriented but language-independent approach to building middleware. Secondly, the middleware has an architecture that simplifies extendability, i.e. adding new distribution services. In particular, a number of provisions have been made for adding peer-to-peer services, based on the framework developed in WP2, during the coming year.

Among the services that the middleware provides are multiple consistency protocols, multiple distributed garbage collection algorithms, and an advanced messaging service. These services can be coupled to most high-level programming languages/systems transparently extending them to distribution with good performance.

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