

Project Number: IST-2001-33234  
Project Acronym: PEPITO  
Title: PEer-to-Peer Implementation and TheOry  
Distributed garbage collection for the DSS  
Due date: project month 38  
Delivery Date: 2005-02-20  
Responsible Partner: INRIA  
Participating Partners: INRIA, SICS

Deliverable no:	D4.8
Title:	Distributed garbage collection for the DSS
Workpackage no:	WP4
Due date:	38
Delivery date:	38

#### Short Description

This deliverable represents the final report in workpackage4 with respect to the development of the “Distributed garbage collection for the DSS”, a task towards the objective of studying different solutions of distributed garbage collection over the DSS.

Throughout the document, we describe a new distributed garbage collection algorithm for large scale systems, such as the DSS. The algorithm is based on a lease management algorithm, but uses an overlay for routing messages, thus achieving better scalability. To evaluate its effectiveness, we implemented a simulator for the algorithm, which shows that, in realistic systems – non-uniform systems –, it achieves better scalability than an algorithm based on direct routing.

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