Pretty Good Anonymity
achieving high performance anonymity services with a single node architecture

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There are several anonymity architectures for Internet communication in use today. They are either unsafe or very complex.

In this work the design, implementation and evaluation of an anonymity architecture that provides a high level of protection and is still simple enough to enable high-bandwidth, low-latency Internet communications is presented.

The architecture uses a single-node anonymity service provider in combination with anonymity groups. The software components of the architecture consist of a client program for end-users, a server program for the anonymity service provider and a remote management component for the server program.

To enable a high-bandwidth and low-latency communication between the client program and the server program a new high-performance IO-framework was designed and implemented.

Members of the jury:

- Prof. Dr. Ulrich Ultes-Nitsche, thesis director, University of Fribourg, Switzerland.
- Prof. Dr. Jacques Pasquier, internal expert, University of Fribourg, Switzerland.
- Prof. Dr. Rüdiger Grimm, external expert, University of Koblenz-Landau, Germany.
- Prof. Dr. Béat Hirsbrunner, president of the jury, University of Fribourg, Switzerland.