

Initial Report

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1 Objective

We, Andreas Bauer and Chung Hwan Han, form the team *Gossip-10* in the Peer-to-Peer Systems and Security course. Within the project we implement the Gossip module of the *VoidPhone* Voice over IP system. The system provides anonymity and understandability to voice communication through a peer-to-peer architecture. The Gossip module is used to spread information like availability information among communicating peers. Other modules from other teams might rely on the Gossip module to spread information required for their operations through the network. For this purpose, the project specification defines a socket-layer API for inter-module communication. The protocol spoken between Gossip instances is the core product of this project work. We follow the material and contents taught in the lecture – considering best practices, common attacks and security measures – for the instantiation of our P2P protocol.

2 Tooling and Infrastructure

3 Previous Experiences