

# Crypto-Book: An Architecture for Privacy Preserving Online Identities

John Maheswaran, David Isaac Wolinsky, Bryan Ford  
Yale University,  
{john.maheswaran,david.wolinsky,bryan.ford}@yale.edu

## ABSTRACT

Through cross-site authentication schemes such as OAuth and OpenID, users increasingly rely on popular social networking sites for their digital identities—but use of these identities brings privacy and tracking risks. We propose Crypto-Book, an extension to existing digital identity infrastructures that offers privacy-preserving, digital identities through the use of public key cryptography and ring signatures. Crypto-Book builds a privacy-preserving cryptographic layer atop existing social network identities, via third-party *key servers* that convert social network identities into public/private key-pairs on demand. Using linkable ring signatures, these key-pairs along with the public keys of other identities create unique pseudonyms untraceable back to the owner yet can resist anonymous abuse.

Our proof-of-concept implementation of Crypto-Book creates public/private key pairs for Facebook users, and includes a private key pickup protocol based on E-mail. We present Black Box, a case study application that uses Crypto-Book for accountable anonymous whistle-blowing. Black Box allows users to sign files deniably using ring signatures, using a list of arbitrary Facebook users – who need not consent or even be aware of this use – as an explicit anonymity set.

## Categories and Subject Descriptors

C.2.0 [Computer-Communication Networks]: General — Security and protection; H.3.5 [Information Storage and Retrieval]: Online Information Services — Web-based services

## General Terms

Design, Security

## Keywords

Anonymity, anonymous communications, authentication, online social networks

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## 1. INTRODUCTION

Social networks have gained widespread popularity among users as a means to managing their online identity; however, growing concern exists regarding online privacy. The extensive deployment of cross site authentication protocols such as OAuth [12] and OpenID [24] have simplified the processing of managing online identity across multiple sites. The unfortunate side effect, enables a user's online activity to be tracked more easily presenting a greater risk to online privacy.

We propose to leverage popular existing social network identities such as Facebook, but augment them with an additional cryptographic layer that enables more privacy-preserving uses of these existing identities. We distribute this privacy-preserving layer through one or more *key servers*, which could in principle be run either by the social networking sites themselves or by independent third-party organizations. These key servers convert social network identities into public/private key-pairs. Users can then employ these keypairs in privacy-preserving, anonymous cryptographic protocols, through the use of ring signatures [26, 18] for example. We demonstrate these capabilities via Black Box, a case study for a deniable whistleblowing application.

We use an *angrtrast* [33] (see Section 3.1) cloud of key servers that collaboratively assign key pairs to each social network identity. Users need only assume that at least one of these key servers is trustworthy, but need not know or care which one. All the other servers may be compromised without breaking the user's privacy protection. Users obtain their private key by authenticating with each of the key servers via OAuth. Each key server generates only one part of the user's private key; the user's client machine then combines these parts to obtain his full private key.

Any user can on demand request not only his own but any set of other users' public keys from these key servers. The public keys can then be used in arbitrary privacy-preserving cryptographic protocols that rely on public/private keypairs. In Crypto-Book, for example, a user can request several others' public keys from the key servers, then use these public keys together with his

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