

PAIRINGBASED CRYPTOGRAPHY PAIRING 2009%0A

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[Pairing-based cryptography - Wikipedia](#)

Pairing-based cryptography is the use of a pairing between elements of two cryptographic groups to a third group with a mapping e to construct or analyze cryptographic systems. Contents 1 Definition

[Report on Pairing-based Cryptography](#)

Pairing-based cryptography has been adopted commercially. The two largest companies in this field are The two largest companies in this field are Voltage Security (co-founded by Boneh), and Trend Micro.

[Report on Pairing-based Cryptography](#)

This report summarizes study results on pairing-based cryptography. The main purpose of the study is to form NIST's position on standardizing and recommending pairing-based cryptography schemes currently published in research literature and standardized in other standard bodies.

[Pairing-Based Cryptography - Pairing 2009 - Third ...](#)

This book constitutes the refereed proceedings of the Third International Conference on Pairing-Based Cryptography, Pairing 2009, held in Palo Alto, CA, USA, in August 2009. The 16 full papers presented were carefully reviewed and selected from 38 submissions.

[Pairing-Based Cryptography | CSRC](#)

Project Overview. Recently, what are known as pairings on elliptic curves have been a very active area of research in cryptography. A pairing is a function that maps a pair of points on an elliptic curve into a finite field.

[PBC Library - Pairing-Based Cryptography - About](#) Pairing-based cryptography is a relatively young area of cryptography that revolves around a certain function with special properties. The PBC (Pairing-Based Cryptography) library is a free C library (released under the GNU Lesser General Public License) built on the GMP library that performs the mathematical operations underlying pairing-based cryptosystems.

[Pairing-based cryptography - Pairing 2009 ; Third ...](#)

This book constitutes the refereed proceedings of the Third International Conference on Pairing-Based Cryptography, Pairing 2009, held in Palo Alto, CA, USA, in August 2009.

[An Introduction to Pairing-Based Cryptography](#)

AN INTRODUCTION TO PAIRING-BASED CRYPTOGRAPHY 3.2. Bilinear pairings Let n be a prime number. Let $G_1 = \langle \mathbb{F}_p \rangle$ be an additively-written group of order n with identity 0 , and let G_2 be a multiplicatively-written group of order n .

[On the Disadvantages of Pairing-based Cryptography](#)

4 Disadvantages of pairing-based cryptography 4.1 Large working parameters It is well-known that ECC schemes are public-key mechanisms that provide the same functionality as RSA schemes. However, a desired security level can be attained with significantly smaller parameters in ECC systems. For example, a 160-bit elliptic curve key provides the same level of security as a 1024-bit RSA parameter.

PAIRING-BASED CRYPTOGRAPHY AT HIGH SECURITY LEVELS

for pairing-based elliptic curve cryptography of a move to higher levels of security. Our first purpose is to describe three general questions about efficiency.

Pairing-based cryptography thesis by Ben Lynn

Abstract Pairing-based cryptography has become a highly active research area. We define bilinear maps, or pairings, and show how they give rise to cryptosystems with new functionality.

dblp: Pairing-Based Cryptography 2009

Hovav Shacham, Brent Waters: Pairing-Based Cryptography - Pairing 2009, Third International Conference, Palo Alto, CA, USA, August 12-14, 2009, Proceedings.

Pairing-Based Cryptography Pairing 2009 |

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GitHub - Nik-U/pbc: Pairing-based cryptography for Go

It also includes a wide variety of optimizations that make pairing-based cryptography highly efficient. To improve performance, PBC does not perform type checking to ensure that operations actually make sense. The Go wrapper provides the ability to add compatibility checks to most operations, or to use unchecked elements to maximize performance.

High-Speed Elliptic Curve and Pairing-Based Cryptography

Elliptic Curve Cryptography (ECC), independently proposed by Miller [Mil86] and Koblitz [Kob87] in mid 80 s, is finding momentum to consolidate its status as the public-key system of choice in a wide range of applications and to further expand this position to settings traditionally occupied by RSA and DL-based systems.