# Keeping critical apps & data safe.

An unmatched toolkit enabling you to build, control and trust your own software crypto-security.

## Verimatrix Whitebox

**PRODUCT BRIEF**

## SECURITY ARCHITECTS AND CHIEF RISK OFFICERS TRUST VERIMATRIX WHITEBOX

*An advanced engineering toolkit that prevents hackers from analyzing and attacking apps*

### Top Banks Protect their Apps with Whitebox

Exposed cryptographic keys are a known vulnerability in app code. Verimatrix's Whitebox effectively dissolves keys into the code itself and obscures algorithms to keep critical applications and data safe – even if a hacker has complete access to the device on which the algorithms are executing. This is why CTOs and chief compliance officers at many of the world's leading banks use Verimatrix Whitebox to shield their consumer-facing apps from attack.

### An Engineering Toolkit for Crypto-Security

The Verimatrix Whitebox Designer can be used to generate a unique cryptographic architecture to keep hackers from anticipating how to analyze and attack. The ability to define the optimum Whitebox for your needs brings massive performance gains. By chaining algorithms, complex operations can be performed without the need to jump between multiple implementations.

### Maintain Exclusive Control of Your Keys

Traditional Whitebox vendors provide a pre-compiled library, which means the vendor knows/owns the keys that unlock the Whitebox. If these keys are shared between multiple customers, someone else's insecure application can put yours at risk. With Verimatrix Whitebox, you always remain in control of your own keys. We never see them, and they can never be shared by other implementations.

### *Build your custom cryptographic architecture:*

**Any Algorithm**
Protect any algorithm including AES, AES-GCM, (3)DES, RSA, ECDSA, ECC Key Gen, ECDH, HMAC, SHA, 3DES MAC and AES-MAC.

**Any Platform**
This flexible security solution empowers you to protect content and data on any platform regardless of device state.

**Any Key**
Even when running in an exposed environment, Whitebox achieves a secure boundary by dissolving keys and protecting secrets.

**Customized Security**
A unique graphical designer allows you to easily define your own error-free cryptographic architecture within seconds.

**End-to-End Support**
Our team's deep experience in app protection streamlines support for implementation, integration, testing, and maintenance.

**Software Environment**
Operating on a pure software environment, you won't be held back by the dependencies and costs of resistant hardware.

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## Full-Circle Security Solutions

Whitebox is one part of the Verimatrix suite of application security solutions, which also includes Code Protection and App Shield to keep valuable data secure and safeguard your applications.

## Award-Winning, Industry-Leading Customer Support

Benefit from award-winning 24/7/365 worldwide customer support. With a customer satisfaction score of 99% and four prestigious Stevie® Awards for Excellence in Customer Service, you can trust that your partnership will be valued.

## Driving Trust for 20 Years

As industry experts with two decades of experience, many of the world's largest content owners and service providers trust Verimatrix to protect the systems people depend on every day.

## Algorithms

- (3)DES
- AES
- AES-GCM
- Blowfish
- Diffie-Hellman
- ECC-derived algorithms, including ECDSA
- Elgamal
- HMAC
- KDF
- OMAC
- RSA
- SHA-1/SHA-2

## About Verimatrix

Verimatrix (Euronext Paris: VMX) helps power the modern connected world with security made for people. We protect digital content, applications, and devices with intuitive, people-centered and frictionless security. Leading brands turn to Verimatrix to secure everything from premium movies and live streaming sports, to sensitive financial and healthcare data, to mission-critical mobile applications. We enable the trusted connections our customers depend on to deliver compelling content and experiences to millions of consumers around the world. Verimatrix helps partners get to market faster, scale easily, protect valuable revenue streams, and win new business. To learn more, visit www.verimatrix.com.

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