

Keeping critical apps & data safe.

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

**Verimatrix
XTD Whitebox
Cryptography**



SECURITY ARCHITECTS AND CHIEF RISK OFFICERS TRUST VERIMATRIX XTD WHITEBOX CRYPTOGRAPHY

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

Top Banks Protect their Apps with Key Shield

Exposed cryptographic keys are a known vulnerability in app code. Verimatrix XTD Whitebox Cryptography 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 XTD Whitebox Cryptography to shield their consumer-facing apps from attack.

An Engineering Toolkit for Crypto-Security

The Verimatrix XTD Whitebox Cryptography 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 vendors provide a pre-compiled library, which means the vendor knows/owns the keys that unlock the protection. If these keys are shared between multiple customers, someone else's insecure application can put yours at risk. With Verimatrix XTD Whitebox Cryptography, 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.



Customized Security

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



Any Platform

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



End-to-End Support

Our team's deep experience in app protection streamlines support for implementation, integration, testing, and maintenance.



Any Key

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



Software Environment

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

Verimatrix XTD Whitebox Cryptography

#VerimatrixXTDWhiteboxCryptography

Full-Circle Security Solutions

Verimatrix XTD Whitebox Cryptography is one part of the Verimatrix XTD suite of application security solutions to keep valuable data secure and safeguard your applications.

Driving Trust for 30 Years

As industry experts with three 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 Cybersecurity

Verimatrix secures the apps that power our digital world. The Verimatrix Extended Threat Defense platform (XTD) delivers next-generation app protection for Android, iOS, embedded, and desktop apps—blending layered shielding, adaptive AI-driven threat intelligence, real-time detection and response, and whitebox cryptography to block attacks before they happen. Built for modern development, XTD integrates seamlessly with CI/CD pipelines and SIEMs—boosting security without slowing innovation. For 30 years, global leaders have relied on us to build trusted, seamless digital experiences—without compromise. Backed by ISO-certified security, 150+ patents, and award-winning localized services in 9 countries, we protect industries like telecom, hospitality, banking, e-commerce, healthcare, and automotive from relentless cyber threats. The apps we trust need protection. Verimatrix delivers. To learn more, visit www.verimatrix.com.

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