RDS
REDtone Digital Services

cryptoloc

Proactive Encryption In A Reactive World

Cryptoloc Encryption Licencing

ENGINE
START
STOP

Our technology does more than just encrypt your data

Our patented encryption combines AES 256, RSA 4096 and RSA OAEP into one unified technology to create one of the world's most secure encryption standards.

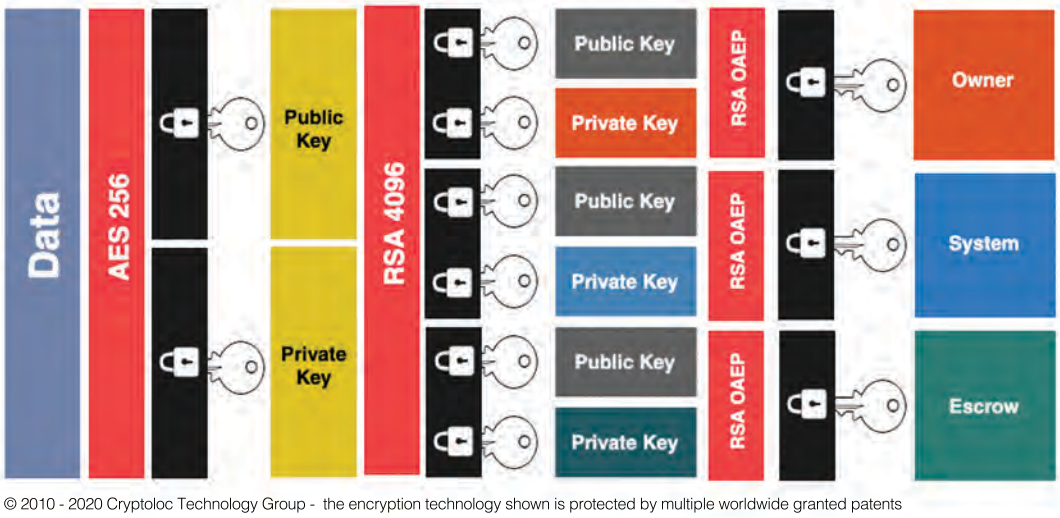
High security applications often demand more than just encryption to protect data. They need layer after layer of security, each one protecting the other and that's exactly what separates our encryption technology from the competition. Developed over several years in collaboration with an elite team of Cryptographers, Mathematicians, Data Scientists and Software Developers, it combines three different encryption algorithms (AES 256, RSA 4096 and RSA OAEP) into one process and creates three different key pairs, all of which are required to decrypt the protected data. These three different key pairs are stored in three separate locations, meaning an attacker would need to carry out three separate attacks on different systems, without being detected, in order to decrypt any usable data. The versatility of our technology means it can be deployed to almost any application, hardware or software, from automotive keying, right through to protecting eCommerce customers. Unlike other technologies we provide you with full service and support. Our dedicated team can help design and build a solution tailored to your exact specifications. Our encryption technology is patented in multiple countries around the world meaning the level of security offered by the solution is only available from Cryptoloc.

Good Things Come In Threes

Our patented technology uses three different encryption algorithms and three different key pairs issued to three different parties.

Most encryption solutions on the market only use one algorithm and two keys. Our patented encryption goes far beyond that. It starts with a piece of data - whether its a file, document or string of text, our technology starts by encrypting it with AES 256 and pairing it with an RSA 4096 key pair. Those keys are then split into three parts which generates a further three key pairs which are then encrypted using RSA OAEP. Each of the three keys are issued to three separate parties.

The owner (the person granted access to that data), the system and the escrow. The escrow can be any trusted third party body, agent or system. All three keys are required to decrypt the data. So if for example a cyber attacker were to obtain the system private key, it would be useless without also obtaining the other private keys (held in two different locations). This in effect makes it virtually impossible for a hacker to obtain any usable data from an attack.



© 2010 - 2020 Cryptoloc Technology Group - the encryption technology shown is protected by multiple worldwide granted patents

For Applications That Demand High Security

Our patented technology can be used for more than just securing data. From automotive keying to access control its versatility makes it ideal for any software or hardware application.

Whether you make keyless entry systems for the automotive sector or provide payment processing services to the world's largest banks, our patented encryption technology provides the versatility needed to lay the foundation for any high security application. It can be used in virtually any hardware or software application and unlike blockchain based solutions, it requires minimum computing power making it the ideal solution whether you use a single microprocessor or multiple cloud server instances.

For applications that require high security clearance such as defence, we can provide access to a closed team of vetted individuals whom have passed background checks and obtained security clearance that meets your requirements. We can offer you complete discretion and secrecy when it comes to working on your project and we can work to the exact security requirements as specified by you. Think of us as an extension of your business.

REDtone Digital Services Pvt. Ltd.

Bangalow # D-23, Block 2 Clifton,

Karachi, Karachi City,

Sindh,

Pakistan

Tel: +92 (21) 111-737(RDS)-111

Authorised Partner

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