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High Security Encryption & Data Security

Cryptoloc Encryption Solutions

cryptoloc.com/encryption

Introducing
Cryptoloc Encryption

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.

How it works

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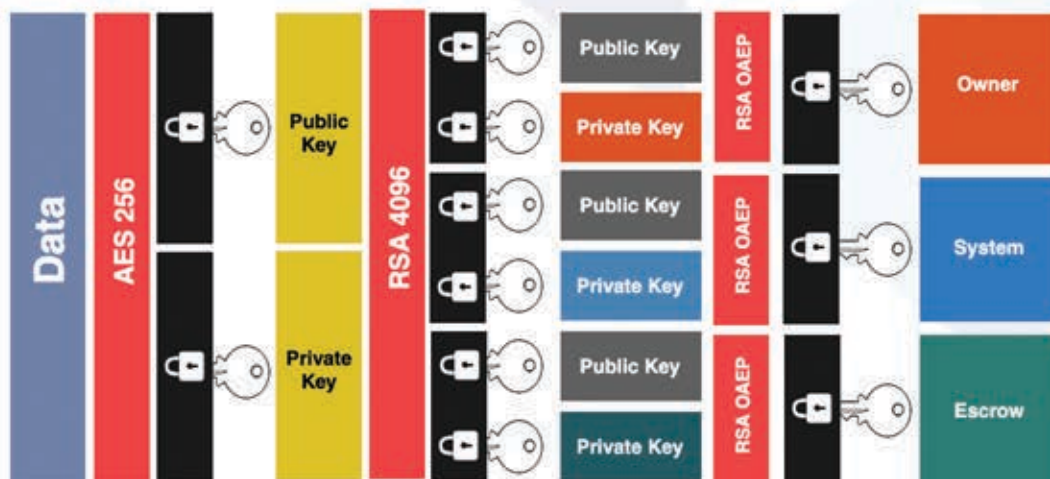
© 2010 - 2020 Cryptoloc Technology Group - the encryption technology shown is protected by multiple worldwide granted patents

Applications

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.

Because the technology is patented in multiple countries worldwide, it's protected from being used, copied or modified in any way, without holding a licence. As a Cryptoloc licencee this gives you the upper hand when it comes to protecting your product and IP. With the encryption technology already protected you are free to focus on designing your product, safe in the knowledge that your competition cannot copy the encryption technology behind it, giving you an excellent advantage when it comes to marketing your product.

Development

Helping You Build Your High Security Product

Our patented technology isn't just an encryption standard. As a licencee you have full access to our in house team of Solutions Architects, Delivery Managers & Developers.

Unlike other encryption standards, our patented technology is closed-source and only available to licencees. As a licencee you benefit from full access to our in house team who don't just understand the technology, they know it through and through. Who better to speak to than the people who built the technology after all. Our team can work with your team at every stage of the development process to design, build, test and support your application.

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.

**Cryptoloc
Technology Group**

Our Business is Securing Your Business

With a portfolio of solutions designed for different industries and applications, Cryptoloc Technology Group is a highly trusted name when it comes to high security, practical, cybersecurity solutions.

Cryptoloc Technology Group is cybersecurity company based in Brisbane, founded in 2014 by Jamie Wilson, an Accountant who set out to change the way the world sees cybersecurity. We have developed and patented a high security encryption technology, which we deploy across our diverse portfolio of solutions. Our Solutions are designed for businesses and individuals who take cybersecurity seriously. With over 50 people located in five different offices across the world (Brisbane, Cambridge, Tokyo, Johannesburg and New York), you are never far from a Cryptoloc expert.

Contact Us
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cryptoloc.com

Our Solutions

Vault
High Security Electronic
Document Management System

S2C
Secure and Simple Electronic
Document Signatures

QA
Counterfeit Prevention Technology

Encryption
Our Patented Encryption Technology

YDF.ai
High Security Cloud File Storage

Our Business is
Securing Your Business

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