



The Rt. Hon George Osborne M.P.

There is a clock ticking  
on your network security...

**Iguana**  
security





If you escaped today, the risk intensifies tomorrow.



## Prepare your network or prepare for the fallout from a cyber-attack

The facts are too stark to ignore. 90% of large organisations and 74% of smaller businesses suffered a data breach in 2015<sup>\*1</sup> as the number of reported security incidents rose by 48%<sup>\*2</sup>.

Talk Talk, Sony, eBay, VTech and many, many more made the wrong kind of headlines. The US Department of Homeland Security has increased its cyber security budget by 500% in the past two years<sup>\*3</sup>.

You can't see the enemy but you can see that anybody in business is in a battle they can't afford to lose.

Wherever you trade and on whatever scale, if you are in business you are a target for cyber criminals.

The public IP networks that almost every business now relies on to transact, share data and communicate present a potentially vulnerable attack surface for cyber criminals and hackers. If, today, you have escaped serious attack, the risks to your reputation, your share price, your data's security and also of fines being levied intensifies tomorrow.

In the face of this global, advanced and increasing threat good network security isn't good enough. If you care about the security of your data and want it to be safe in transit you need the best protection you can get.

<sup>\*1</sup> Department of Business Innovation and Skills 2015

<sup>\*2</sup> PWC. Global State of Information Security Survey 2014

<sup>\*3</sup> GCN.COM 2015



Good network security isn't good enough

Encryption is the answer

## Take a lead from Government

In the protection of our nation's critical national infrastructure and sensitive state communications to Secret and Top Secret levels, HM Government has set the benchmark for data, asset and network security.

At the heart of that capability is hardware based encryption. Hardware rather than software principally because it is more resilient; presenting a much smaller attack surface to any malicious intent. And encryption because it is the single most reliable method of securing information. Strong and well-implemented encryption provides the most trusted mechanism for guarding against cyber infiltration.

As an authorised security provider to HM Government, we have created IGUANA Security solutions to bring Government Grade protection to commercial organisations with high value assets. It is the most sophisticated solution of its kind – a future proof line of defence to counter the growing threat and evolving nature of cyber-attacks.

Key to its commercial appeal is that IGUANA protects from exploitation whilst giving companies the freedom and flexibility to operate without constraint. Business flows as normal while crucial data is seamlessly secured in the background.

## Protect your data at the highest level

L3 TRL is part of the UK Cyber Growth Partnership. For over 30 years we have been a security partner of choice for global defence and government organisations and are a UK-based subsidiary of the leading US defence supplier L3.

Dedicated and resourced to help our customers remain one step ahead of current and emerging threats, we design and engineer innovative advanced technology defence and security solutions to protect infrastructures, people and assets, developed and manufactured in the UK.

That deep and 'proven in the field' expertise is now tailored specifically for the commercial arena under the IGUANA Security brand, delivering a level of protection and deployability for long term sensitivity and value that, until recently, has not been available.

The IGUANAGreen encryption solutions are based on L3 TRL's CATAPAN system, the award-winning High Grade network security solution accredited for Government use by the UK National Approving Authority.

IGUANA gives you back the trust in your network's resilience that the cyber threat has taken away.



Security  
breach



Network  
resilience





## The hardware encryption advantage

The multiple interfaces and underlying operating system functionality of software-based encryption present an invitingly large attack surface to anybody intent on attacking the network. It is the equivalent of a burglar being faced with multiple ways in, some inevitably more vulnerable than others.

By contrast IGUANAGreen's hardware-based architecture and AES256 encryption is single purpose and best of breed. The equivalent of presenting a would be intruder with only one highly secure and heavily guarded option.

In operation too, hardware is better equipped to deliver for business. Throughput performance remains under all traffic conditions, regardless of processing loads, that is unmatched by commercial software based encryption; which usually results in a significant throughput reduction and greater latency.

Full network performance is maintained so that core applications may be accessed remotely, without delay or increased latency.

In any commercial environment IGUANAGreen has been specifically designed to deliver both the highest levels of security and functionality.

## Tailored to your network and business needs

IGUANAGreen has been designed to meet the complex demands of different organisations and network structures, from the financial sector to health companies, manufacturers, retailers and everything in between. Easy installation and 'fit and forget' ensures that the encryption doesn't place an additional burden on the network team.

IGUANAGreen can provide users in a branch or remote office with a resolutely secure voice and data capability. Small, cost effective and easy to configure, it nonetheless delivers Government Grade information assurance.

IGUANAGreen for Enterprise is engineered to meet more demanding requirements, combining a throughput of up to 10Gbps, supporting substantial and simultaneous data transfer with unmatched low latency. It has the ability to connect up to 800 devices and can also be deployed as a partner for IGUANAGreen, offering an interoperable, agile gateway solution to creating a secure communications network.

IGUANA Security works with organisations on a local and global scale, securing their communications across a multitude of environments from geographically distributed offices interconnected by virtual private networks, mirrored or replicated data centres using high-speed WAN connections, microwave or radio based campus networks to core applications and video conferencing.



High speed  
for Disaster  
Recovery

Transport  
Networks

Cloud  
Services

Mobile  
Backhaul

Distributed  
Networks

## High security. Low latency

As vital as data security is in the face of a growing cyber extortion threat, it cannot exist in a vacuum, divorced from the need for business to transact and trade freely.

From its heritage in nation state protection and developed specifically to deliver Government Grade security to commercial environments, IGUANA Security is uniquely placed to provide performance and protection without compromise.

IGUANAGreen for Enterprise operates in full-duplex mode at full line speed, delivering both high bandwidth deployment and predictable performance. Latency is so low as to be all but zero.

With low through-life costs, fault-tolerant hardware architecture, network neutral application and easily adapted management tools, IGUANAGreen ensures business efficiency is as well secured as sensitive data in transit.





## Flexible key management. The key to secure data

Encryption systems by their nature can only be as strong as the keys they use.

To ensure the highest possible quality of cryptographic keys, IGUANAGreen network encryptors and its Key Management Solution (KMS) use dual redundant hardware-based true random number generators, ensuring a constant stream of true random data is available for key generation.

Using symmetric encryption keys in both the transmitting and receiving devices ensures all data remains uncompromised. At the core of the KMS is a Hardware Security Module which allows customers to generate and control their own cryptographic keys, verified by a Trust Anchor specific to the customer or enterprise.

Key management is flexible and can be tailored to the particular requirements and processes of each customer.

## Why you need IGUANA to protect your most sensitive data

The threat and potentially devastating commercial impacts of cyber-attack are now a business reality. You need to provide your data and your organisation with the best available protection and in encryption that means Government Grade performance and hardware architecture.

In the most demanding commercial applications, IGUANA Security solutions have a unique ability to deliver resilient encryption and information assurance with a 'zero-impact' combination of bandwidth availability, throughput speed and low latency.

Flexible, interoperable and future-proof, IGUANAGreen is all the security your data in transit needs and your customers and stakeholders would demand.



## Four valuable steps to safeguarding your data in transit

### Government Grade Encryption

To protect the nation, Critical National Infrastructure and the UK economy, HM Government is committed to leading the way and the world in cyber security. As a business, investing in Government Grade encryption is the best protection you can give your data in transit, so that only intended parties can access it.

### The Hardware Security Advantage

Hardware-based network security is single purpose and presents a much smaller attack surface to malicious ingress than any software-based multi-function alternative can match. It is the best possible foundation for a secure and resilient network architecture.

### High performance. Low latency

Installing an effective cyber defence that then hampers network performance through reduced throughput, increased latency, downtime or constrained network growth is a hollow victory.

### Flexible Key Management

Encryption systems, by their nature, can only be as strong as the keys they use. Clear key management, self-generation and the use of dual redundant hardware-based true random number generators are essential building blocks of a failsafe network.



“In 2015, 160 million customer records were compromised in cybercrimes, destroying \$3trillion of market value.”

Satya Nadella. Microsoft CEO

To learn more and move towards a more secure future, talk to us on **+44 (0) 1684 278700** or visit [www.L3T.com/TRL](http://www.L3T.com/TRL)

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