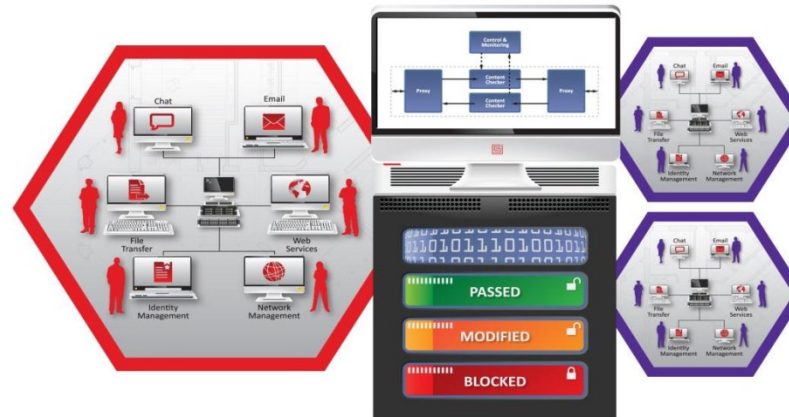**DEEP SECURE**
Assured messaging and application security solutions

**Simplifying Information Sharing Across Security Boundaries
Deep-Secure Overview
12th November 2013, Prague**

What we do

- Deep-Secure offer solutions that help organisations control the movement of high value data assets between networks based upon:

  - Classification or 'value' of the data

  - The clearance or permissions of those sending and receiving

  - The content of the data

    - deep content inspection to verify what the data *actually is*

  - The regulations governing the movement of that data

    - regulatory compliance and how it should be controlled

The Value

- Deep-Secure offer solutions that help organisations control the movement of high value data assets between networks based upon:

  - The content of the data

  - The classification of the data

  - The clearance of those sending and receiving

  - The regulations governing the movement of that data

- Assured security platform that delivers security to control information flows:

  - Policy based control and management

  - Content verification

  - Implementation architecture supporting accreditation

  - Clearance and classification verification

  - PKI enabled Certificate verification

  - Delivery and notification control

  - Audit, account and alerting to support security operations (SyOps)
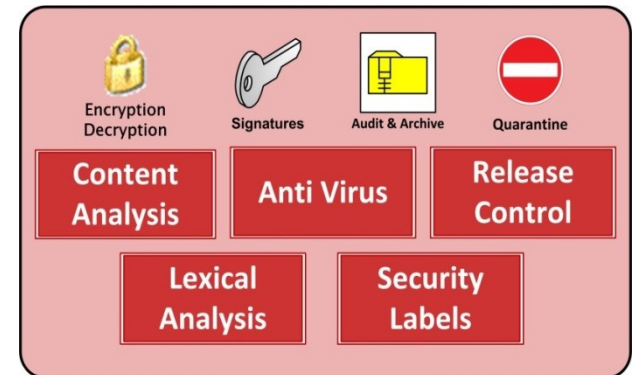
We are a specialist supplier supporting many organisations

We are:

- The strategic choice for UKMOD
  - Coalition operations, fixed and tactical deployed
- Specialist provider to Intelligence organisations
- Working closely with UK Government departments - UK Border Agency
- A NATO delivery partner – secure messaging and XML based interoperability
- Supporting Commercial organisations – especially in the Aerospace and Defence sectors
- Helping supply chains protect IP, control export and work with Government
- Extending to a range of commercial sectors recognising the need for enhanced protection
  - Utilities, finance, legal and corporate customers

Why we do it

- A dangerous world of complexity and evolving cyber threat

- The short term trends in cyber threat require solutions to meet:

  - Further nation state cyber revelations – new nation states gear up

  - Professionalisation of a cyber attack industry – accessible and pervasive

  - Increased attacks against the supply chain – points of weakest resistance

  - Deployment of 'adaptive security architectures' – the need to monitor

  - Cyber crime becomes mobile-enabled – increasing application level attacks

- Each of these drive a need for a better solution to meet those changing needs for us to securely share information

* https://www.baesystemsdetica.com/news/bae-systems-detica-releases-top-5-predictions-for-cyber-security-threats-in/

What are not now adequate defences?

- The appliance that protects all – *they are not strong enough*

- Defences that only sit at the network level – *the attacks are increasing at the application level*

- An enterprise security suite – *one size does not fit all where data has higher value*

- Security products that do not defend themselves – *that is where I would target my attack*

- Solutions difficult to integrate – *they need to support the current business processes*

So what is the right approach?

- A simpler and higher assurance approach

  - Developed with high assurance as the requirement

  - Multi- protocol support – consistently applied policy and checking

  - Appliance Intel hardware based – independent of platform vendor

  - Based on secure, evaluated operating system

  - Can meet the needs of the boundary between production and IT systems

  - Adaptable architecture without compromise assurance levels

- Specifically aligned solutions for a range of protection requirements

- Multiple protocol support – to provide tight control where it is needed most

- Simple and effective business application integration

- Consistently high security functionality for ID of sender/recipient, data value and content allowable

Deep-Secure Guard Product Suite

Mail Guard — Controls the flow of SMTP and/or X.400 email messages using sophisticated Policy Enforcement and Content Checking service.

Web Guard — Controls Web browsing and Web services between separate networks using sophisticated Policy Enforcement and Content Checking service.

Network Management Guard — Controls the flow of network management traffic, carried by SNMP, between managed networks and a single management network.

Digital Identity Guard — Controls the flow of identity services traffic by LDAP, HTTP and OCSP between networks.

Chat Guard — Controls both the establishment of XMPP chat sessions and the flow of documents and data during those sessions.

File Transfer Guard — Controls the flow of documents by FTP(S) between networks.

XML Guard — Controls the flow of XML messages carried by HTTP(S) between applications hosted on otherwise separate networks.

Deep-Secure Products & Services

Services

Applications

Mail Guard	Web Guard	Network Management Guard	XML Guard	Chat Guard	File Transfer Guard	Digital Identity Guard

In Summary

- The Deep-Secure solutions are assured in their ability to:

  - Reduce the operational risk of data loss

  - Enhance security levels to meet operational and regulatory requirements

  - Cut operational and infrastructure costs

  - Increase the operational benefit of sharing data without being a barrier

- Defending supply chains with the right integrated solutions

- Strong enough to defend against advanced persistent threats by nation states and committed criminals

- Suitable for use with a range of customers with common problems

- Adaptive to respond to dynamic and rapidly changing threats

- Flexible to meet emerging use of applications and devices

Thank you

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