



## Building an Information Exchange Gateway the Deep-Secure way

National defence organisations have the need to share information between their fixed and deployed systems. There is also a need to securely share information with the wider community including both coalition partners, NATO, International Organisations, and Non-Government Organisations. A core set of business applications including Email, Web and Command and Control (C2) need to be shared securely. In order to achieve this, organisations have to deploy gateways to provide both interoperability between the systems and to protect their national assets.

### What is an Information Exchange Gateway?

An Information Exchange Gateway (IEG) is designed to enable business applications across network boundaries whilst at the same time protecting the internal network from both inbound malware threats and outbound sensitive information leaks.

Nations are beginning to use IEGs as a standard way to communicate both between their strategic and tactical systems and also with coalition partners. By using a common architecture and making use of internationally recognised standards, this approach enables interoperability and allows for Commercial Off-The-Shelf (COTS) components to be used to provide secure information exchange.

### The Deep-Secure IEG Package

The Deep-Secure IEG package is a unique combination of products and services to enable the rapid build of a system to communicate securely and effectively with external systems. It is perfect for systems integrators and end users with an integration capability.

Our IEG package combines proven products with access to experienced consultants to help specify the requirement, design, build, test, and to transfer that knowledge for an IEG tailored to your information exchange requirements. The Deep-Secure Information Exchange Gateway supports the following key services:

- Informal Email (SMTP)
- Military Messaging (X.400/STANAG 4406 Edition 2)
- Web (HTTP)
- Chat (XMPP)
- Directory Replication
- File Transfer
- C2 Messaging
- Network Management (SNMP, Syslog)

<input checked="" type="checkbox"/>	Supports key IEG services
<input checked="" type="checkbox"/>	Security focussed
<input checked="" type="checkbox"/>	Simplifies integration
<input checked="" type="checkbox"/>	Cost effective build solution
<input checked="" type="checkbox"/>	Supports a range of standards

# The Deep-Secure Approach

## Security Focussed

Deep-Secure's IEG package focuses on security. Engineered around the family of guards, the solution provides defence in depth, assured separation between networks and advanced content verification. The design of the IEG reflects the types of network to be connected and our team consults with the system security accreditor to ensure connectivity and security needs are met.

The Deep-Secure guards at the heart of the IEG have been built to meet the most stringent of security requirements and are self-defending. This means that they have been designed to withstand attack by protecting the security critical processing and arranging that the security does not rely on complex functionality. The guards include advanced content verification to defend the system against both known and unknown attacks and methods of leaking information.

*"We have a wide range of products in the gateway and the support we get from Deep-Secure is excellent and far exceeds any we get from other vendors".*

Delivery Lead - UK  
Defence Information Infrastructure

Monitoring the IEG components is critical to maintaining secure information exchange services. Our solution ensures network management traffic can be passed securely into a central location in the protected network.

## Simplifies Integration

Using previous experience of helping customers create an IEG, our Professional Services team will consult with you over the full project life cycle including:

*"At the end of the day it has been observed that the synergy between operational and technical reality in working with Deep-Secure as part of our team, has demonstrated that this is most appropriate way to support delivery of an accredited system."*  
Maj. Antonio IANNIELLO  
Commander of the Italian Airforce C4-ISR Innovation, Development and Experimentation Group

**Requirements:** helping to understand and document the information exchange requirements;

**Design:** working with you to create a design that meets both the security and information exchange requirements;

**Implementation:** working with you and partners to implement the solution;

**Knowledge Transfer:** ensuring that you have the skills and knowledge needed to build additional instances of the IEG and to manage it effectively;

**Test:** supporting you during the testing phase to ensure the requirements are met and the system functions correctly;

**Operate:** maintaining a long term relationship with you to ensure operational issues are resolved quickly and future information exchange needs can be met efficiently.

## Cost Effective Build Solution

- A flexible package enabling a cost effective IEG to be built in short timescales
- Deep-Secure have experience in supporting IEG projects
- A mature range of products covers core Information Exchange Services
- A committed roadmap and investment in products to support future information exchange needs
- Advanced content verification and a detailed knowledge of key data formats and protocols
- Comprehensive management interfaces to support configuration and operation of the products
- Comprehensive security label handling for multiple data formats
- Support for network monitoring without compromising the security of the IEG

Want to know more?

[www.deep-secure.com](http://www.deep-secure.com)

+44 (0)1684 892831