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Fujitsu Secure Cross Domain Gateway Solutions
Enabling Secure Information Access and Exchange Without Compromising Productivity

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Security threats to an organisation's ICT infrastructure continue to evolve and become ever more sophisticated. With this evolving threat comes increased risk. This is especially the case for the Defence & National Security sector where the consequences of a security breach are exacerbated. Information exchange is key to improved productivity, efficient and accurate decision making and effective collaboration. So ensuring the right level of security is achieved and maintained to protect sensitive data, while enabling your people to work effectively, and provide access to the required information sources is a tricky conundrum.

The challenge is further compounded as the modern workplace is no longer a fixed location. Information exchange and collaboration – with colleagues, partners and allies - are essential capabilities that the Defence sector must deliver for its people to work effectively, wherever they are. The modern flexible workplace must allow seamless integration with the Internet and other systems. It's got to be delivered with assured security, the highest resilience and the best possible performance, while maximising productivity.

More specifically within Defence & National Security environments, security requirements often determine that operations require information of multiple classifications be held on multiple systems. While this creates a secure environment that protects operationally sensitive data, this can also create unnecessary overheads such as:

- Reduction in productivity as people work with many different systems
- Increase in costs
- Increase in equipment footprint as people require multiple machines for a single job role
- Potential lack of integrity of data due to increase in time to access and collate information.

There's a myriad of products and technologies available to help address this issue. Where the impact of a data loss or breach may not be great, commercial grade products may be acceptable to many organisations. But in higher threat environments, like Defence & National Security where attacker resources are likely to be more substantial and the subsequent impact of security breach is greater, a one-size-fits-all solution is unlikely to be adequate. Instead, multiple solutions and a building block approach is required.

Gateways Discovery Service

As a leading systems integrator, Fujitsu is well placed to design and deliver cross domain gateway solutions specifically tailored for the rigours demanded of Defence & National Security organisations. Using Fujitsu's Gateways Discovery Service can ensure that secure, efficient and affordable collaboration with allies and partners is an achievable target.

Our team of experienced Security Architects will work with you to evaluate and assess the threats and associated levels of risk that your organisation is exposed to. Once this detailed evaluation has taken place, our subject matter experts will enable your teams to understand the gateway options that will enable you to counter this threat and reduce disruption, both at home and abroad.

Continual market evaluation

Fujitsu works with a broad range of innovative technology providers, and we continually evaluate the market place for new products and solutions that will enable us to help our customers keep ahead of the latest threats. Our vendor-agnostic approach ensures we are able to work with the most suitable solution providers to address the exacting needs of customers. Two of our chosen specialist cross domain gateway solution providers are Garrison Technology and Deep Secure. Fujitsu's building block approach, utilising these two best-of-breed solutions maximises Internet security while enabling users to collaborate effectively with colleagues, partners and allies while maintaining high levels of productivity.

A more secure way of browsing the Internet with Garrison Technology

The ability to provide your users with safe, secure access to the Internet is crucial, and a pre-requisite to enable people to do their jobs effectively, regardless of which sector you operate in. But the threats posed from hackers and malicious content is considerable, and the effects can be devastating. Browsing the Internet using a standard proxy server does not always provide sufficient protection from these threats which can compromise a PC and the wider network on which it sits.

To address this issue, Fujitsu is working closely with Garrison Technology to provide a more secure way of browsing the Internet for organisations that rely on enhanced cyber security and assurance for their users. Normal web browsers render (display) text and images on the screen, but might also download and execute code that could be harmful. Using the Garrison Technology appliance enables the user to effectively 'watch' the content on the Internet through a pane of glass, providing a layer of separation between the PC and the Internet. No potentially harmful code is exchanged or executed on the PC during the browsing session. Instead, the user's PC is used to browse down the content and purely acts as a display, leaving the data where it is whilst providing a view of that data to the user. The solution is scalable for deployment across large enterprises, allowing all staff to access the Internet in this highly secure way.

Removing the threat of unsafe Internet content with iX Guard from Deep Secure

Enabling users to browse safely is one aspect. But what if they need to access this information and bring that content into documents or reports that they are creating, without threatening to compromise the security and integrity of their own infrastructure? Systems that handle sensitive business information or drive business critical processes must be protected from cyber attacks and damaging leaks without impairing their ability to share important business information with others. This is hard because advanced attackers and insiders exploit weaknesses in information sharing mechanisms to cause damage.

Deep Secure's iX Guard provides the answer, delivering real protection against advanced cyber attacks and damaging leaks by providing advanced firewalling functionality that works at the information level. It allows vital business information to be exchanged between networks but prevents any attacks or leaks crossing the boundary. It does this by extracting useful business information from data, ignoring any hidden malware or sensitive information that might be hiding.
It then verifies this content is acceptable and builds a new, clean data structure to carry the information to its destination enabling the user to manipulate the information in their own secure and safe working environment with any threats removed.

iX Guard is a new breed of advanced boundary protection appliance that's using content transformation to secure information sharing - ideal for organisations that need to tightly control document management, collaboration, billing, e-commerce and inventory across security domains.

The integration of these two technologies allows users to copy and paste information (including text and images) between low and high trust environments, reducing the requirement for swivel chair information exchange.

Highly assured and accreditable

All of our solutions for Defence and National Security have been designed and built with security at their heart. Fujitsu consults extensively with National Cyber Security Centre, the Information Security arm of GCHQ, and the definitive voice on the technical aspects of information security in Government. We also work closely with the Accreditation community to ensure that the security aspects meet their exacting requirements. The result is that all of our solutions have full cybersecurity capabilities built in to their core.
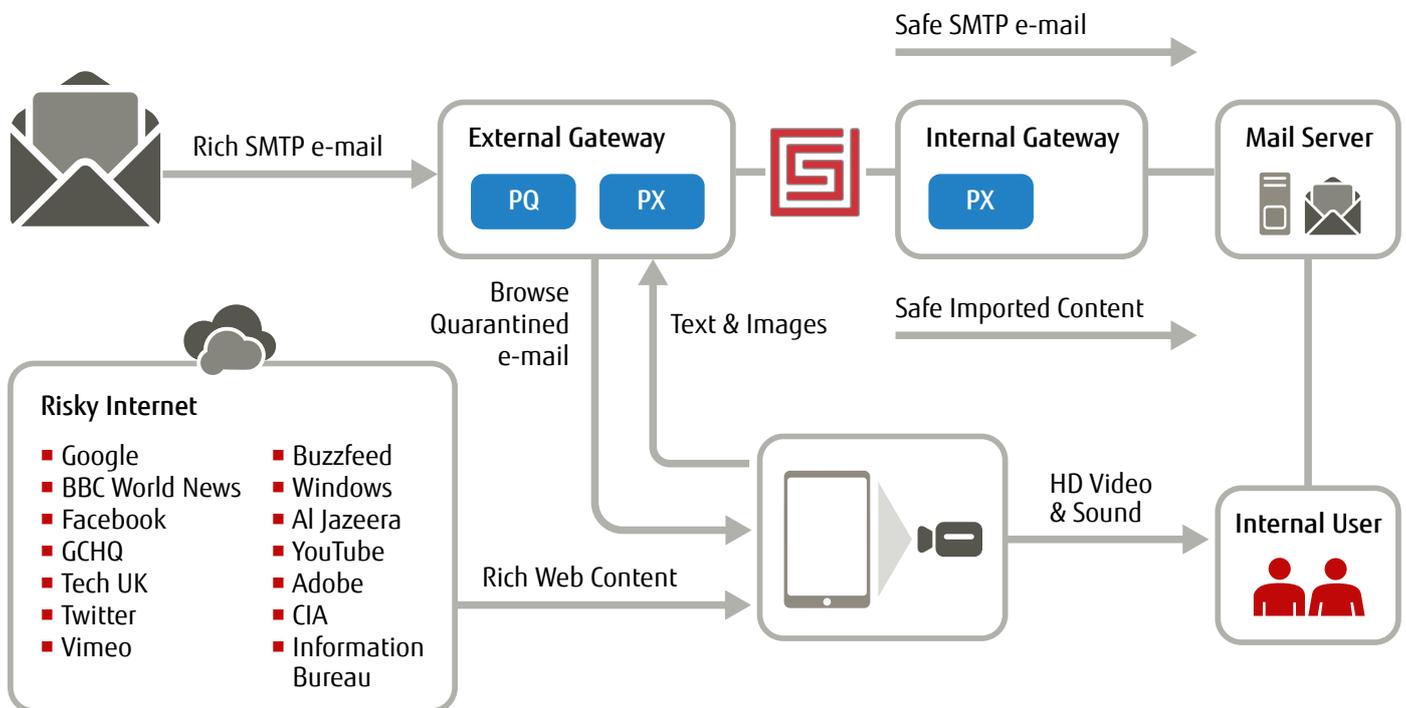
Garrison Technology Company Overview

Garrison Technology is a UK start-up founded by industry veterans with a long history supplying solutions to UK Government and other customers with demanding security requirements. Designed to serve customers ranging from highly secure Government departments to mainstream commercial organisations, Garrison's solution uses unique patented technology to provide secure, isolated web browsing at a high level of assurance but a cost-effective price point. Garrison was founded in 2014 and has been working closely with Fujitsu from 2015.

Deep Secure Company Overview

Deep Secure is a UK Sovereign SME technology provider of secure data sharing COTS products, providing a range of high-assurance data sharing solutions, which enable organisations to effectively and securely share protectively marked information, whilst maintaining its integrity.

Delivered through our modular, multi-protocol assured product set we enable consistent and repeatable adoption of solutions that reduce risk, limit cost, improve operational effectiveness, and are sustainable through the lifecycle of a system.

Our technology, specialist subject matter expertise, skills and knowledge offer an architectural approach, based on a flexible high assurance technology platform designed to offer low risk configurable deployments to support accredited secure data handling systems.

Our products are designed and engineered to meet the exacting standards set by clients such as the UK Ministry of Defence, Her Majesty's Government and NATO, whose data sharing requirements face a wide range of threats, amid the need to communicate in security-hardened environments.

Why Fujitsu?

For over 50 years we have innovated with the MOD, Government Departments and intelligence communities, co-creating new technologies and capabilities. As a result, Fujitsu has around 4,000 security cleared staff and the experience to deliver and manage both generic industry offerings and those tailored to specialist needs at OFFICIAL, SECRET and ABOVE SECRET classifications.

Enabling *Your* Information Advantage

In today's complex, digital operational environment, never before has information been such a key asset in securing operational advantage. Fujitsu's vision is to provide customers with the means to translate complex data into useful information upon which to base critical decisions and actions. Transforming this ever-increasing pool of data into meaningful, useful information through analytics, automation and genuine Artificial Intelligence is critical to achieving this goal.

Fujitsu is fully committed to working closely with our customers, and through the use of co-creation will seek to enhance capability both through the acceleration of existing processes, and also through the delivery of truly new capabilities and ways of working. Our approach is based upon maximising both existing investment and best-in-class innovation, delivering the full spectrum of capabilities needed to enable your information advantage.

Human Centric Innovation
Driving a Trusted Future
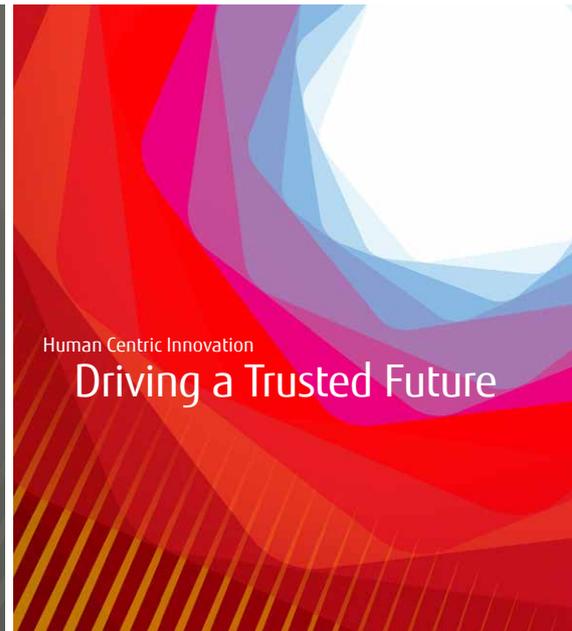
Contact

Telephone: +44 (0)870 242 7998
Email: askfujitsu@uk.fujitsu.com
Ref: 3907
uk.fujitsu.com