FUJITSU

Fujitsu Secure Cross Domain Gateway Solutions

The pathway to productivity – highly secure collaboration and information exchange with allies and partners

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. This ability to collaborate effectively and to access and share data is essential to enable informed and effective decision making. Yet often this data is siloed and held at multiple classifications across multiple systems and locations, as security requirements dictate.

While this creates a secure environment that protects operationally sensitive data, it can also lead to inefficient and ineffective working practices:

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

At the same time, security threats to an organisation's ICT infrastructure continue to evolve and become ever more sophisticated, and with this evolving threat comes increased risk. This is especially the case for the Defence and 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. The modern flexible workplace must allow seamless integration with the necessary systems - whether that is the Internet or systems at other classifications. This needs to be delivered with assured security, the highest resilience and the best possible performance, while maximising productivity.

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 environments that pose a higher threat - like Defence and National Security where attacker resources are likely to be more substantial and the subsequent impact of security breach is far 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 experienced in designing and delivering cross domain gateway solutions specifically tailored for the rigours demanded of Defence and National Security organisations. Using The Fujitsu 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 marketplace 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 for secure browsing are Garrison Technology and Forcepoint. The Fujitsu 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 web access from even the most sensitive environments 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 using a standard proxy server does not provide sufficient protection from these threats which can compromise a PC and the wider network on which it sits.

Fujitsu works closely with Garrison Technology to provide a more secure way of browsing risky web content 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. The Garrison appliance converts web browsing and other interactive applications to guaranteed safe video and audio. 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 to 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 Garrison appliance provides highly scalable and performant deployments across large enterprises. Garrison's appliance enables collaboration with allies or at 'lower-tier' security environments using secure virtual desktop infrastructure isolation, enabling access to collaboration resources from even the most sensitive environment.

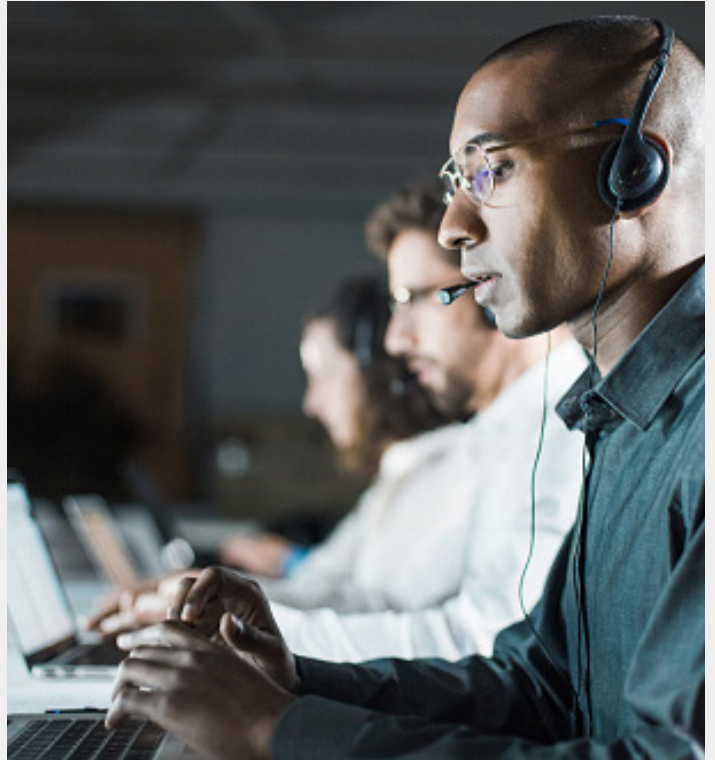## Zero Trust Content Disarm and Reconstruction from Forcepoint

Enabling users to access content safely is one aspect. But what if they need to access this information and use that content in 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.

Forcepoint's Zero Trust Content Disarm and Reconstruction (CDR) process and Information Exchange (iX) Guard deliver real protection against advanced cyber attacks and damaging leaks by stopping malware without the need to detect it. 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, transforming and simplifying the data which discards unwanted content. Once the information has been verified as being safe, this clean information and data can be delivered safely to its destination. This enables the user to manipulate the information in their own secure and safe working environment with any threats removed.
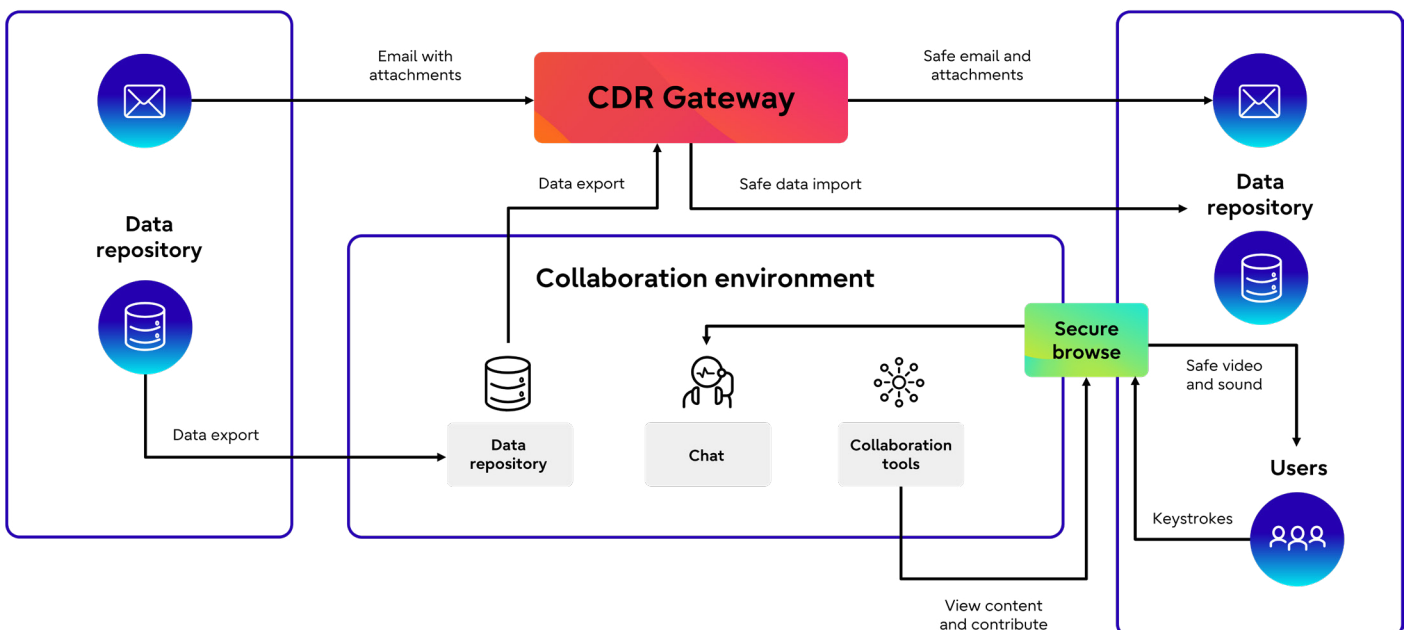
Secure by Design

All of our solutions for Defence and National Security have been designed and built with security at their heart. Fujitsu has a deep understanding of the National Cyber Security Centre (NCSC) guidance on implementing secure cross domain solutions, following the NCSC principles and patterns. The result is that all of our solutions have full cybersecurity capabilities built into their core.

Less trusted system

Trusted system

Email with attachments

CDR Gateway

Safe email and attachments

Data repository

Data export

Safe data import

Data repository

Data export

Collaboration environment

Data repository

Chat

Collaboration tools

Secure browse

Safe video and sound

Users

Keystrokes

View content and contribute

Garrison Technology company overview

GARRISON

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 since 2015.

Forcepoint company overview

Forcepoint

Forcepoint is a 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, His 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 in Defence and National Security?

We want to build a more sustainable future for us all. To do this, we keep evolving in the face of future threats. But we can't do this alone. Which is why we partner with the world's best technology providers to create a readymade ecosystem, designed to harness sustainable innovation and withstand the rigours of the Defence sector.

Bringing together our unrivalled integration capabilities of business critical computing with the very latest emerging technologies - like AI, blockchain and quantum - we're helping our Defence customers prepare for the future, tackling the threats we face today - and tomorrow. By instilling trust in society through innovation that connects people, technology and data, we can design effective solutions that are both ethical and responsible.

We've been adapting to this changing world since 1935, solving humanity's greatest challenges by transforming our customers' businesses. And we've been operating some of the world's most critical infrastructures at the highest levels of security demanded by nations, militaries, governments and industry.

We're continuing to develop this level of collaboration with international experts to ensure we thrive in the face of unprecedented disruption. Together, we can exploit technology to unleash the power of data to deliver better outcomes and define our digital future that will benefit society, the environment, the economy - and generations to come.

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