

Fujitsu OEHE

A secure platform for the integration of Information Services

Information is critical to the success of military operations. The challenge is that there are numerous disparate sources and an increasing number of complex systems for gathering, analysing and applying context to this information. The ability to coordinate these systems and deliver relevant and coherent intelligence when and where it's needed most can be a real Force Multiplier. This is particularly true in operational scenarios,

when time is of the essence and where the right information in the right hands can enable life saving decision making. Fujitsu's Operational Enterprise Service Bus (ESB) Hosting Environment (OEHE) is a secure platform for the integration of Information Services. It facilitates near real-time information exchange across a wide range of disparate sources, providing users with a coherent view of the most relevant information.



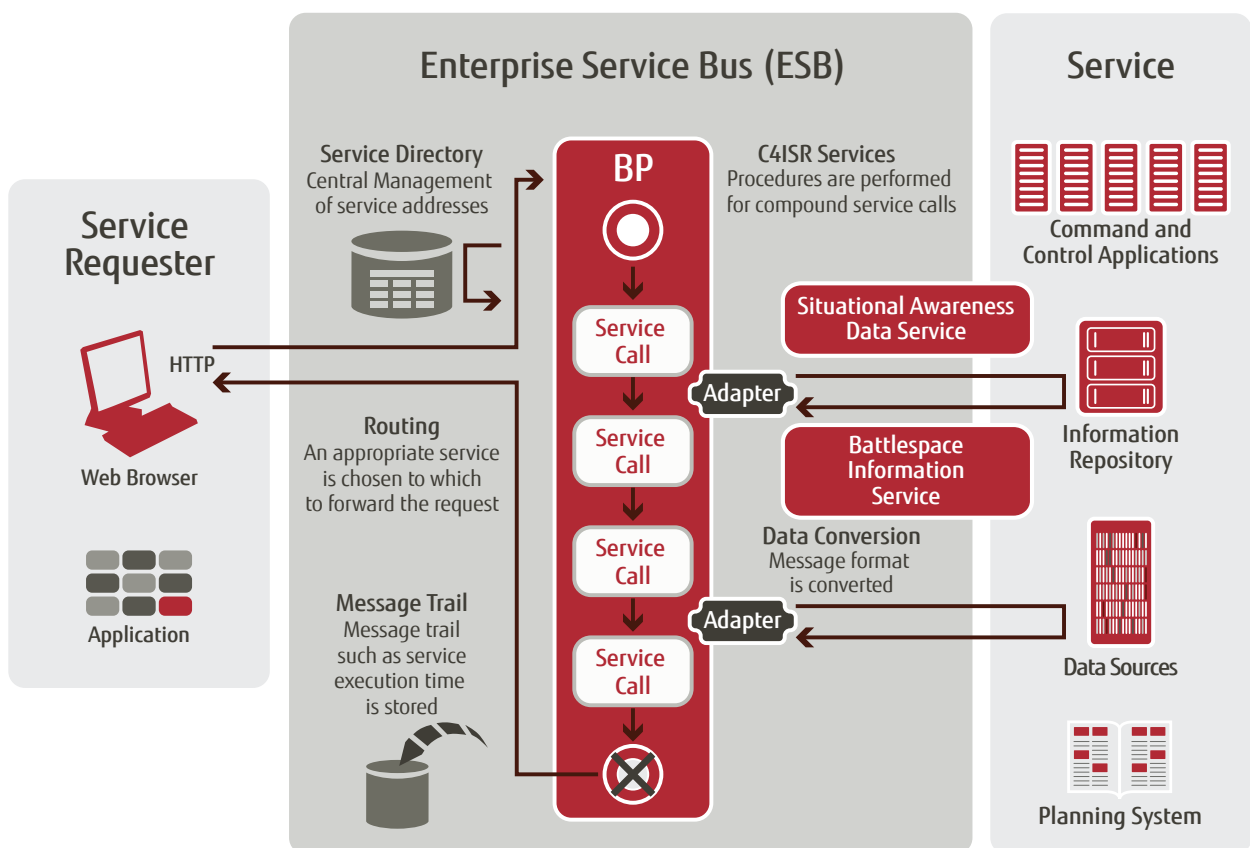
Near real-time information fusion

Fujitsu's OEHE provides an application hosting infrastructure that allows Defence and National Security users to get the very best out of the information to which they have access. This is enabled by the Enterprise Service Bus (ESB) that links the applications that users are accessing on a day-to-day basis with the information sources that contain the data and associated contextual analysis, seamlessly applying any required protocol translation. This all takes place within a highly secure environment that enables the different components to coherently and seamlessly talk to each other, delivering a fusion of near real-time information to end users.

Given the nature of the information being exchanged, the security of the system is of paramount importance. Unlike many other application hosting solutions, Fujitsu's OEHE has been designed and built with security at its heart. Fujitsu consults extensively with CESG, the Information Security arm of GCHQ, and the definitive voice on the technical aspects of information security in Government. The result is that OEHE is an inherently secure system that is CESG Tailored Assurance Service (CTAS) certified¹. Full cyber security capabilities are built in to the core of all of Fujitsu's ICT solutions for the Defence and National Security sector.

Transforming command and control capability

This is not about just providing line-of-business Defence and National Security applications on industry standard hardware in a secure manner though. The real value, or the Force Multiplier, delivered by OEHE is its ability to transform command and control capability. OEHE achieves this due to its ability to host multiple operations simultaneously, supporting multiple caveats within each operation, increasing the overall effectiveness of Force resources. By unlocking data and information, and providing it in a way that empowers users through improved information management, situational awareness and the delivery of the overall intelligence picture, OEHE ultimately improves operational decision-making when and where it matters most.



¹ A CTAS evaluation provides a view of assurance on the IT security attributes of a system, product or service and will be carried out by a company having a CESG-approved test laboratory with CTAS capability. The scope of the evaluation is specified in a Security Target and the range of evaluation activities is detailed in an Evaluation Work Programme. The Accreditor and CESG, with other key stakeholders, will agree the scope and technical approach of the evaluation and will review the CTAS activities and results documented in an Evaluation Report. At the end of the evaluation, CESG will issue a CTAS Assessment Statement to the Accreditor on the results of the evaluation, making recommendations on the significance of any issues that are discovered.

Dynamic, flexible, agile

Fujitsu's OEHE is an augmentation of existing IT environments, which means there is no need for complex infrastructure rollouts. The ESB accelerates the development and delivery of new capabilities while reducing cost and complexity. It can integrate with practically any system, unlocking information in legacy systems or exploiting new capabilities provided by the latest web and cloud services. Furthermore, when an ESB is introduced, functionality duplications and unnecessary dependencies are often discovered, which means that legacy systems may be eliminated, rationalising the IT landscape and further cutting costs.

Fujitsu's dynamic approach ensures OEHE is continually developed and takes advantage of leading edge technology from both commercial off-the-shelf (COTS) products (that are available via Fujitsu's long-standing partnerships with the likes of Microsoft, IBM and VMware) and Open Source. This continual development keeps costs to a minimum and ensures that Fujitsu's solutions integrate the latest product enhancements. Expensive hardware upgrades are also minimised, delivering a Force Multiplier by future-proofing IT investments.

This use of leading edge, best of breed COTS and Open Source products provides further flexibility by allowing new applications to be integrated in to the system far quicker. Previously, this process could have taken many months but the flexible application onboarding process - which meets MOD governance and network joining rules - ensures new applications can be tested and validated to work within the secure Defence environment much faster than ever before. The OEHE architecture also provides a platform for application containerisation allowing Defence and National Security departments to hand-select the applications they require for their line-of-business.

OEHE is constantly evolving to align with MOD's aspirations for DaaP (Defence as a Platform), and as such it is pioneering the use of virtualisation technologies to deliver private cloud-like capabilities. This includes SaaS (Software as a Service), through its virtualised delivery of applications, and the provision of a scalable PaaS-like (Platform as a Service) solution to MOD and its vendors.

GELS - supporting enterprise class search services to military standards

OEHE is the hosting platform for Fujitsu's GELS (Georeferenced & Encyclopaedic Lookup Service) which is a search and visualisation capability, allowing the user to discover and gather situational awareness data from a wide range of source systems providing:

- Users with improved situational awareness and informed intelligence picture;
- Third party C2I2 and military geospatial applications with aggregated information services and geospatial visualisation.

GELS provides users with the ability to fully exploit both real time and historic information across the enterprise to inform military decisions, and increase the effectiveness of force resources. GELS is based entirely on open web standards having been developed using primarily open-source, enterprise class technologies. It has been designed to support a range of military standards as used by UK, US and NATO partners.

In-built collaborative tools, such as Microsoft SharePoint that can be linked to GELS, enable Commanders from different operations to collaborate easily and effectively by securely sharing intelligence and situational awareness. Such collaboration further enables improved decision-making, increasing operational effectiveness and the delivery of another Force Multiplier.

A secure platform for the integration of Information Services:

Fujitsu's OEHE provides an application hosting infrastructure that allows Defence and National Security users to get the very best out of the information to which they have access. The platform provides users with access to near real-time information from applications linked to their most relevant information sources:

- Full cyber security capabilities are built in to the core of OEHE which is CESG Tailored Assurance Service (CTAS) certified.
- Enables disparate components to coherently and seamlessly talk to each other, delivering a fusion of near real-time information to end users.
- An augmentation of existing IT environments, means no need for complex infrastructure rollouts, while taking advantage of leading edge technology and commercial off-the-shelf (COTS) products and Open Source.
- Agility to host multiple operations simultaneously, supporting multiple caveats within each operation, transforming command and control capability.
- Fully scalable solution from a highly available, highly resilient data centre environment to smaller applications in deployed operations.
- Fully sustainable, through-life support and maintenance provided by Fujitsu's global capabilities.

Why Fujitsu?

Enabling information to be the real Force Multiplier

Providing an application hosting platform that allows military users to get the very best out of the information available to them is another example of how Fujitsu can deliver a real Force Multiplier effect for the Defence sector. Fujitsu understands the modern-day complexities and challenges facing military organisations and intelligence communities. As a result of our work across the Defence sector we have an excellent insight in to the challenges that surround the 'joining up' of information across many large agencies in order to respond effectively to any situation in the emerging new global battlespace.

That's why partnering with Fujitsu can help to improve the quality of your information and how you use it. By exploiting a wide range of ICT-based solutions, like OEHE and GELS search service capability, we enable this information to deliver a real Force Multiplier effect, dramatically increasing the efficiency and effectiveness of your Force's limited resources.

We're expanding our Global Defence and National Security portfolio, supporting customers across Europe, the Middle East and India, Asia Pacific, Canada and the USA. Our commitment to military deployed infrastructure is unrivalled among ICT companies and we provide the same high level of support to Defence & National Security customers wherever they are, be that in the office, at headquarters, on the road, on foot, at sea, in the air or in combat.

For more information

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ID 3185/04.16