FUJITSU

Fujitsu Defence and National Security Cloud Service (DNSCS) – Official, Secret, and Top Secret
Enabling Digital Transformation in a Secure Environment

Today's leading organisations are increasingly under pressure to pursue the benefits of digital transformation. But in certain industries where far greater levels of security are demanded, digital adoption can pose substantial threats.

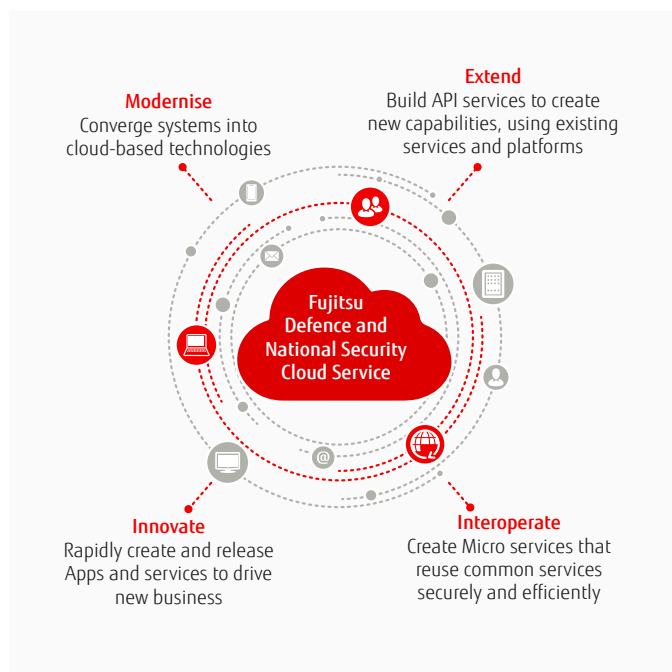**Secure environments present two specific challenges:**

- Migrating existing workloads in a cost-effective way – these legacy workloads are often hosted on small, bespoke infrastructures which are inflexible and inefficient

- Digital transformation projects which demand a flexible cloud platform to enable agile development of cloud native applications and other innovative progression.

A cloud-based approach is the natural starting point to deliver this flexible platform for both existing workloads and cloud native development, and one that will enable future digital innovation. But stringent security demands are stalling many organisation's digital aspirations. So, the challenge dictates that any cloud-based approach is delivered in a secure environment that meets the rigorous requirements of Government Security workloads from OFFICIAL SENSITIVE to TOP SECRET.

Designed to enable digital transformation in a secure environment

To address this specific challenge, Fujitsu has developed it's Defence and National Security Cloud Service, designed for organisations with such stringent security needs. Drawing on Fujitsu global experience in delivering cloud-based technologies, and based on our next generation digital infrastructure, the industry-leading cloud-based service provides an enablement platform for future digital services.

Fujitsu Defence and National Security Cloud Service gives an organisation the flexible and scalable cloud platform they demand, in a secure environment. The service enables the migration of legacy environments to a modern cloud-based infrastructure, delivering the benefits of a more efficient and effective hosting environment. The platform also enables the modernisation and exploitation of existing IT investments, along with the development of new innovative cloud-native applications, providing a solid platform for your future digital strategy.

Modernise
Converge systems into cloud-based technologies

Extend
Build API services to create new capabilities, using existing services and platforms

Fujitsu Defence and National Security Cloud Service

Innovate
Rapidly create and release Apps and services to drive new business

Interoperate
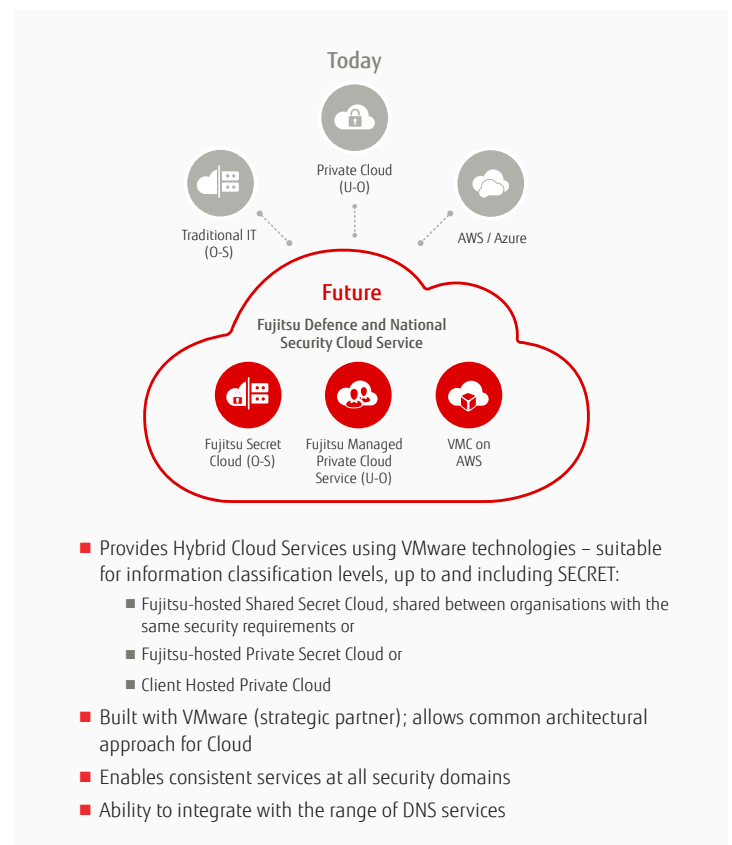Create Micro services that reuse common services securely and efficiently

Industry-leading cloud virtualisation technology

The solution is based on established industry-leading cloud virtualisation technology from VMware. This service utilises VMware's Software Defined Data Centre (SDDC) solutions and has been designed with support from VMware consultants following patterns that have been tried and tested and known to be accreditable at SECRET and TOP SECRET classifications. This ensures an entirely consistent approach is delivered at all security domains from public cloud right up to TOP SECRET.

Flexibility in deployment, procurement and pricing

Flexibility is at the heart of the solution design, which includes features that are commonly found in a public cloud environment. Deployment is not restricted by any location which means we can deliver the solution wherever a customer has the need. Fujitsu has the global capability to install and service a deployment anywhere in the world, facilitating both fixed and mobile secure communications to the most remote locations, if necessary.

Today

Private Cloud (U-O)

Traditional IT (O-S)

AWS / Azure

Future
Fujitsu Defence and National Security Cloud Service

Fujitsu Secret Cloud (O-S)

Fujitsu Managed Private Cloud Service (U-O)

VMC on AWS

- Provides Hybrid Cloud Services using VMware technologies – suitable for information classification levels, up to and including SECRET:
  - Fujitsu-hosted Shared Secret Cloud, shared between organisations with the same security requirements or
  - Fujitsu-hosted Private Secret Cloud or
  - Client Hosted Private Cloud
- Built with VMware (strategic partner); allows common architectural approach for Cloud
- Enables consistent services at all security domains
- Ability to integrate with the range of DNS services

The service can be procured via the UK Government's G-Cloud service and is highly agile offering a variety of flexible pricing mechanisms from a pay-as-you-use pricing model to full asset purchase, depending on the customer's preference. It has been designed to scale starting with a small, entry-level offering. This can be delivered with a range of physical capacities allowing customers to flex workloads as demand dictates, utilising both Infrastructure as a Service (IaaS) and Platform as a Service (PaaS) capabilities. As a purely standalone capability this can also be used in deployed scenarios.

Proven security and information assurance

Our ability to deliver this approach at heightened security levels is well proven. Fujitsu Defence and National Security Cloud Service provides a private or community cloud solution that can run workloads that comply with or exceed relevant Government Security Classifications.

The secure service builds on the extensive experience from Fujitsu of delivering secure solutions for numerous Government services that operate at SECRET or TOP SECRET classifications. In the UK, Fujitsu is certified for Cyber Essentials Plus and has designed the Defence and National Security Cloud Service to meet the goals defined in NCSC Cloud Security Principles 1-14. Fujitsu is also certified to ISO 27001, an independent international information security management standard.

Fujitsu will work closely with customers to ensure our information security standards meet the customer's own security and risk management requirements. In addition, Fujitsu shall adhere to all requirements stipulated by industry regulators, including the Defence Cyber Protection Partnership, and HMG Security Policy Framework and supporting Security Policies.
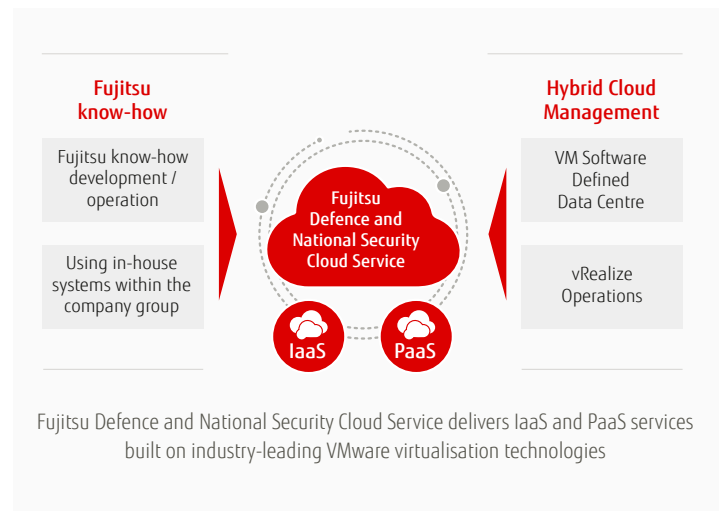
Private or Community Cloud with high-speed network connectivity

Fujitsu has the flexibility to deliver its Defence and National Security Cloud Service as a dedicated private cloud capability for a single organisation, or a community cloud for multiple organisations operating with a similar security posture. As the provider of the Global Connectivity Service to the UK Ministry of Defence, Fujitsu is ideally placed to provide high-speed secure network connectivity.

The service can be hosted in one or more of our dedicated datacentre facilities, or where necessary, the customer's datacentre may also be used for hosting, or a combination of both facilities, as required. Fujitsu has the flexibility and capability to deliver an organisation's specific needs and requirements.

Simplified governance and operations

The Fujitsu Defence and National Security Cloud Service provides a configuration User Portal and APIs that enable customers to consume, configure and manage their service. Each user will receive unique credentials that gives their organisation access for authorised administrators, developers and business to design, provision and approve resources within the Cloud Service. API access is based on VMware's standard API interface which is capable of being used for custom deployment scripts, continuous integration/deployment tools and automated deployment tools such as Terraform, Cloudify or Cloud Foundry.

Fujitsu know-how	Fujitsu Defence and National Security Cloud Service	Hybrid Cloud Management
Fujitsu know-how development / operation	IaaS PaaS	VM Software Defined Data Centre
Using in-house systems within the company group		vRealize Operations

Fujitsu Defence and National Security Cloud Service delivers IaaS and PaaS services built on industry-leading VMware virtualisation technologies

Fujitsu Defence and National Security Cloud Service
can be stood up wherever it is required, anywhere in the world, including Afloat.

Fujitsu Defence and National Security Cloud Service at-a-glance

Designed to enable digital transformation in a secure environment

Fujitsu Defence and National Security Cloud Service enables the migration of legacy environments to a modern cloud-based infrastructure, along with the development of new innovative cloud-native applications, in a secure environment from Official Sensitive and above:

- Built on industry-leading VMware technology, the secure service delivers both Infrastructure as a Service (IaaS) and Platform as a Service (PaaS) capabilities

- An entirely consistent approach is delivered at all security domains from public cloud right up to TOP SECRET

- Deployment is not restricted by any location - Fujitsu has the global capability to install and service a deployment anywhere in the world

- Can be delivered as a dedicated private cloud capability for a single organisation, or a community cloud for multiple organisations operating with similar security postures

- A highly agile service offering a variety of flexible pricing mechanisms from a pay-as-you-use to full asset purchase

- Designed to scale starting with a small, entry-level offering, providing a cost-effective solution

- Self-service Portal vastly simplifies governance and operations of the cloud, allowing authorised administrators, developers and business users to select and approve services that comply with pre-defined business policies

- Builds on the extensive experience from Fujitsu of delivering secure solutions for numerous Government services that operate at SECRET or TOP SECRET

- The service can be procured via the UK Government's G-Cloud service.

Fujitsu & VMware Global Partnership

VMware is a global leader in cloud infrastructure and business mobility, helping customers accelerate their digital transformation. VMware enables enterprises to master a software-defined approach to business and IT with VMware Cross-Cloud Architecture™ and solutions for the datacentre, mobility, and security.

vmware®

Fujitsu has been working on a global basis with VMware for 15 years. Our respective business strategies are highly complementary in addressing opportunities in the mobile cloud era, and these synergistic strategies have enabled our companies to craft an extensive joint portfolio of innovative solutions that fully embrace VMware's SDDC, EUC, and vSAN offerings. Moreover, world class services capabilities from Fujitsu create an ideal partnership, allowing us to promote complete solutions that fully address the IT needs of our joint customers.

Why Fujitsu?

For over five decades Fujitsu has been a major supplier to the UK MOD, Government Departments and intelligence communities. As a result, Fujitsu has over 5,500 security cleared UK staff and the experience to deliver and manage both generic industry offerings and those tailored to specialist needs at OFFICIAL, SECRET and TOP SECRET classifications.

Fujitsu Vision for the Digital Age

Defence has entered a new paradigm where information is generated and circulated on an unprecedented scale. In the complex matrix of system procurements this information is often segregated, stove-piped and difficult to bring together to support timely and effective decision making.

The Fujitsu Vision for the Digital Age is to make coherent information available whenever and wherever it is needed. We use our capabilities in networking and systems integration to link and enhance situational awareness - from strategic base to tactical theatre, from Defence supplier to dismounted soldier. Our approach extracts maximum benefit from existing investment in IT systems, innovating, developing and extending capability and functionality.