



Media Backgrounder Hybrid IT

December 2017

More than 56 percent of large organizations¹ expect that within two years, the majority of their IT capabilities will be delivered through some form of cloud service – public, private, or hybrid.

Enterprise CIOs today must strike a balance between reaping the benefits of cloud based systems, such as enhanced agility and being able to deploy new solutions rapidly, with ensuring that technology limitations do not stifle business units. Hybrid IT is the answer – seamlessly integrated environments that blend the best of cloud-based and traditional (on premise) IT. This approach provides the agility to transform and evolve with changing business needs – but with a robust yet flexible governance framework that can match the new pace of business.

Our ability to provide digital services based on systems running in the cloud plays a key role in delivering Fujitsu's vision of a human-centric intelligent society, one where social and business innovation is driven by the intelligent use of technology. Fujitsu's own Cloud Service K5 is the foundation for digital transformation, providing access to a world of powerful digital services and capabilities, such as artificial intelligence, big data analytics, mobile and the internet of things – via a global network of cloud "regions".

Fujitsu's Hybrid IT portfolio

Fujitsu Cloud Service K5

With launch of K5 Fujitsu has created a new-generation of cloud technology and the only cloud service available today that uses the same architecture across all deployments (public cloud, virtual private hosted, dedicated and on-premises).

Fujitsu Cloud Service K5 is designed to help businesses embrace digital transformation and increase their operational efficiency and flexibility by moving workloads to the cloud, at their own pace. It also sets the stage for companies to innovate faster and manage hybrid IT landscapes more effectively. K5 was created to help customers more easily build, test and deploy new digital services, whilst being able to support and run business-critical enterprise systems. As customers are freed from the need to manage and maintain their technology infrastructures, they can instead focus their resources on developing their own new business opportunities.

K5 brings together Fujitsu's extensive knowledge of developing cloud solutions with open source (OpenStack) technologies to offer the economic advantages of an open source solution combined with the robustness of an enterprise-class system, plus a wealth of platform services. Thanks to K5, Fujitsu can offer the most complete end-to-end cloud portfolio in the market. Various configurations or deployment modes can match varying customer requirements, with K5 available both as a public, private or virtual private cloud. When deployed as a private cloud, K5 can run either from within a Fujitsu data center or on a customer's own premises. A single open architecture, common to all implementations, means that customers can seamlessly transfer workloads, proofs of concept and new applications between cloud types as required: functionality that many Fujitsu competitors struggle with, or simply cannot provide and allows organizations to deploy new digital services even more easily and rapidly than before.

Fujitsu's development of K5 has been rapid, innovative and comprehensive

- Since the summer of 2016, Fujitsu has rolled out Cloud Service K5 for global consumption – with regions throughout the world.
- The global availability of K5 is backed by a recently-announced open source cloud application development tool – the K5 Playground, designed to fast-track the creation of new cloud-native applications (see "K5 Playground" section, below).
- Fujitsu has also assembled a thriving ecosystem of partners – SAP, Microsoft, Oracle, VMware, Citrix, Nuage Networks, to name a few - offering complementary software and services that help make K5 the most complete end-to-end cloud portfolio in the market.
- In 2017, K5 became a Cloud Foundry Certified Platform, the global Industry standard Platform-as-a-Service (PaaS) open source technology. This ensures that developers can run their apps across any Cloud Foundry instance in the language and framework of their choice.
- Large organizations (for example, Nanto Bank Co. Ltd, Japan and the Finnish Government) are choosing Fujitsu Cloud Service K5 as the basis for their digital transformation, and as well as large-scale new and existing customer migrations continuously taking place, Fujitsu itself is migrating around 13,000 servers and over 600 core systems to K5, resulting in significant cost and operational efficiencies.
- The K5 platform enables Fujitsu's customers to leverage technologies that are becoming key for digital business – such as IoT, AI, Big Data Analytics and Blockchain. For example, in October 2017 the Japanese Bankers Association (JBA) began offering a Fujitsu cloud service-based blockchain platform, made available over Fujitsu Cloud Service K5. The Collaborative Blockchain Platform is a financial services blockchain technology testbed environment that JBA plans to provide to its member banks for applications employing blockchain technology, such as for settlement and funds transfer services, and identity and time-of-transaction authentication.

K5 Playground

The global availability of K5 is backed by a recently-announced open source cloud application development tool – the [K5 Playground](#), designed to fast-track the creation of new cloud-native applications. The K5 Playground offers developers a fast track to creating new cloud-native applications on the Cloud Service K5 with it's a free collection of ready-made, easily customizable app templates including shopping carts for e-commerce platforms and localized maps.

Users start building basic apps with templates and can add widgets via drag-and-drop. Templates can be downloaded and further edited in node.js before being uploaded to any Cloud Foundry platform, including Fujitsu Cloud Service K5, via 14 readily-available APIs. The entire process, from template selection to uploading the code to Fujitsu Cloud Service K5, can be completed in less than 10 minutes for a basic app.

Hybrid IT Services - Transform, Integrate, Orchestrate

Integration and orchestration are key differentiators for Fujitsu in this field, with a range of services designed to support customer journeys from traditional IT, to cloud and towards digital. As customers strive to transform along this path to remain competitive, their IT environments invariably become more complex, with technologies of different ages co-existing – usually with a need to interact. Fujitsu enables large organizations to seamlessly integrate and manage traditional robust IT (which may be key to running vital enterprise systems, for example) alongside cloud-based Fast IT, (which is now seen as key to driving new levels of agility, efficiency and innovation).

As verified by independent third party analysts [such as Forrester](#), multi-cloud management and the resulting complexity this brings is a growing trend. Fujitsu's Hybrid IT Orchestration and Managed Services portfolio enables the optimisation and management of Hybrid IT and multi-cloud environments from end-to-end. Fujitsu has leveraged and strengthened key partnerships with major technology players such as VMware, Microsoft, Oracle and NetApp to provide customers with a smooth transition to Hybrid IT and seamless management thereafter.

A key underpinning technology that helps customers bridge the gap between traditional infrastructures and cloud is [Fujitsu Cloud Service Manager](#) (FCSM). FCSM addresses the key challenges of managing a Hybrid IT landscape of cloud and traditional on-premises systems while delivering savings in operational management costs of up to 70 percent. Enterprises are adopting FCSM as a unified platform or modular set of tools to self-manage different Hybrid IT services, platforms, processes costs and tasks, across entire businesses.

In addition, in partnership with NetApp, Fujitsu has also introduced private storage for public and virtual private cloud environments. This means data from multiple cloud types can now be stored privately and within geographic boundaries – a key step towards compliance with EU General Data Protection Regulation (GDPR) regulatory requirements.

Online resources

- Fujitsu and Hybrid IT: <http://www.fujitsu.com/global/themes/hybrid-it/>
- The Hybrid Hive - Conversation and debate about all things Hybrid IT: <http://www.thehybridhive.com/>
- The Whitebook of Managing Hybrid IT: http://www.fujitsu.com/global/Images/Fujitsu_Whitebook_Managing_Hybrid_IT.pdf
- Read the Fujitsu blog: <http://blog.ts.fujitsu.com/>
- Follow Fujitsu on Twitter: http://www.twitter.com/Fujitsu_Global
- Follow us on LinkedIn: <http://www.linkedin.com/company/fujitsu>
- Find Fujitsu on Facebook: <http://www.facebook.com/FujitsuICT>
- Fujitsu pictures and media server: <http://mediaportal.ts.fujitsu.com/pages/portal.php>
- For regular news updates, bookmark the Fujitsu newsroom: <http://ts.fujitsu.com/ps2/nr/index.aspx>

¹ Source: MaturityScape Benchmark: Cloud Worldwide, 2017 by IDC Research