

PRIMEFLEX
Integrated Systems

Accelerate Your Transformation to Hybrid IT

Deploying a new IT architecture across a distributed IT landscape is complex, time-consuming, and costly. For organizations embarking on their Hybrid IT journey within their own data center, PRIMEFLEX Integrated Systems from Fsas Technologies offer a streamlined approach to deployment, lifecycle management, and maintenance.

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Decades of a public cloud-first strategy have caused significant misalignment between investments and business outcomes. In response, innovative enterprises are exploring a more sophisticated workload-first approach based on a flexible hybrid IT infrastructure, offering the adaptability and choice needed to better align infrastructure with workload requirements.

While public cloud will continue to remain strategic for many applications, according to IDC, a growing number of European organizations are planning to bring applications back to private cloud environments - citing regulations, cost, and sovereignty reasons.*

This white paper discusses the major considerations for building an effective private cloud foundation for a hybrid IT infrastructure and explains how PRIMEFLEX integrated systems help you overcome deployment, life cycle and maintenance challenges.

Private cloud – hybrid IT starts in your data center

Organizations in today's digital-first world face the challenge of balancing the need for rapid innovation with the imperative for security, performance, and control. A private cloud, implemented within your on-premises data center as part of a well-defined hybrid IT strategy, provides the optimal solution, enabling the agility and scalability required for innovation while ensuring the security and governance your business demands.

Enhanced security and compliance

Private cloud infrastructure offers enhanced security and compliance compared to legacy or public cloud systems. This is achieved through granular control over dedicated resources and strict access controls, a reduced attack surface by isolating the environment from the public internet, and improved compliance with regulations like HIPAA, GDPR, and PCI DSS due to customizable security policies and continuous monitoring. This allows for tailored security measures and ensures compliance with data sovereignty laws.

Greater control and customization

Private cloud provides greater control and customization than public cloud solutions. This includes dedicated resources, eliminating resource sharing; tailored infrastructure and custom security policies designed to meet specific business needs; seamless integration with existing IT systems; and personalized network and storage configurations to handle diverse workloads.

Cost efficiency and predictability

Private cloud offers cost efficiency and predictability compared to traditional or public cloud infrastructure. While initial investment is higher, CapEx and OpEx are more predictable, avoiding unexpected costs associated with variable public cloud pricing. Consolidation of resources, optimized utilization, and reduced overhead lead to significant long-term savings, especially for organizations with consistent workloads. Transparent pricing eliminates hidden fees often found in public cloud services.

Improved performance and reliability

Private cloud offers improved performance and reliability due to exclusive access to dedicated resources, eliminating resource contention and "noisy neighbor" effects. Lower latency from closer proximity to the organization's location enhances performance. Finally, complete control over infrastructure allows for customized redundancy and disaster recovery solutions, minimizing unplanned disruptions.

Flexibility and scalability with governance

Private cloud offers the flexibility and scalability of public cloud with greater control and reduced vendor lock-in. Dynamic scaling through

virtualization and automation allows for resource adjustments based on demand without the need for physical hardware changes. Integration with public cloud (hybrid cloud) is possible, offering additional scalability while maintaining control over core workloads. Unlike public cloud, private cloud avoids vendor lock-in, providing greater freedom in infrastructure choices and tool integration.

Implementing high-performance and secure **GenAI** infrastructure

One major workload that is fueling this trend towards private cloud is AI. To deploy generative AI models, businesses need to train those models. And to perform AI training efficiently, they need infrastructure that is tailored for AI. To be sure, it's possible to obtain AI-friendly infrastructure from public clouds, which offer solutions, like GPU-as-a-service, that cater to AI training needs. Using the public cloud for this purpose may make sense for organizations that need to perform one-off training. But for ongoing or recurring training needs, private clouds are likely to deliver a better overall tradeoff between cost and performance. 26% of European organizations already indicating a preference for private clouds for deploying GenAI data and workloads.*

*IDC signature whitepaper, sponsored by Fujitsu, Hybrid Cloud Infrastructure in the "AI Everywhere" Era, IDC #EUR252646524, November 2024

Building your hybrid IT infrastructure

For companies, who want to start their hybrid IT journey, there are numerous options to evaluate, and it requires extensive integration of both hardware and software, as well as cooperation with cloud providers, to thrive. The question is when, how, and where to start? Multiple considerations must be made at every step of the journey to build the foundation for an effective hybrid cloud.

Right cloud for the right workload - making the right workload placement decisions

An important first step is to understand your application landscape and identify the requirements of each of your individual workloads. How complex are they? What is the level of customization required? How critical are they to the business? Which of them must meet special demands in terms of performance, latency, scalability, availability, data protection, security, privacy, and compliance? And how do you retain full control? To support that decision process, Fsas Technologies provides assessment services helping you to clarify which applications should be retained on existing platforms, rehosted to the cloud, re-built, re-purchased or even replaced. Each of these options has its own justification, because workload demands on infrastructure vary greatly.

Become your own service provider -Turn your on-premises IT infrastructure into a true private cloud

Once parts of your workloads run in the cloud, application managers quickly adapt to its convenient operational model. They no longer need to rely on time-consuming internal request processes for hardware procurement and installation by the IT team. In the cloud, new infrastructure can be deployed in just a few clicks. This shift raises expectations for on-

premises infrastructure. To keep pace, internal IT organizations must evolve, adopting a private cloud architecture that enables users to provision IT resources with the same seamless experience as the public cloud.

However, many enterprises fail with private cloud because they approach it like traditional onpremises data centers rather than as a cloud provider. Instead of dynamically allocating compute resources, businesses often divide budgets and infrastructure among separate teams, leading to inefficiencies and low utilization. This results in costly data centers with idle servers.

To succeed, enterprises must shift from siloed resources to a holistic infrastructure model that serves the entire organization efficiently. Like public cloud providers, internal IT teams must act as service providers, ensuring optimal resource use across all departments—not just the ones with the largest budgets. Without this mindset shift, private cloud efforts will replicate the same inefficiencies as traditional data centers.

Introduce cloud-like pay-per-use consumption model for private cloud

Traditional on-premises infrastructure financing often requires large upfront capital investments, leading to underutilization and financial inefficiencies. A cloud-like financing model for on-premises infrastructure offers a more flexible, consumption-based approach, aligning costs with actual usage. By adopting strategies such as pay-as-you-go pricing, subscription-based models, and capacity-on-demand frameworks, enterprises can optimize spending while maintaining control over their IT environment. This model enhances agility, improves resource

utilization, and ensures a seamless hybrid cloud experience. Implementing cloud-like financing for on-premises infrastructure enables organizations to modernize their IT operations without the financial and operational constraints of traditional procurement methods.

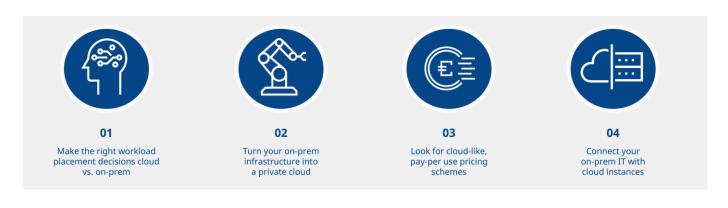
Connect your on-premises IT with cloud instances

A hybrid IT architecture will never be static in terms of workload placements. Some workloads that have been hosted on-premises for many years may move to the cloud over time, and some may even move back from the cloud into the data center. It goes without saying that onpremises data centers and the public cloud should not be separate worlds. Instead, they should complement each other and be managed as a single, unified infrastructure. This dictates that your on-premises infrastructure needs to be easily utilized in a hybrid scenario across all physical and virtual locations. Only a hybridenabled, on-premises infrastructure ensures the consistency needed to manage service delivery, life-cycle operations, and user access for all IT services in your new hybrid IT architecture.

Finally, you need to consider the implications of your new hybrid IT architecture for data protection and security requirements. The more distributed your IT landscape is, the more vulnerabilities and entry points for potential threats there are. You need to take many

different threats into account, such as an IT outage, data loss or corruption, or a catastrophic event, but also cybercrime and ransomware attacks. Effective data protection and cyber security against all these threats is not an autonomous entity. It plays an important role in keeping your business up and running – not only the IT.

With all the above considerations in mind, and the multitude of options available, it becomes obvious that the design, deployment and life cycle management of a hybrid IT architecture can be an error-prone, time-consuming, and expensive endeavor that poses multiple risks for your business. It requires a deep understanding of all the operational and financial implications of each option. This begs the question as to whether building your own hybrid IT architecture and re-inventing the wheel for every project is the best approach. Or whether it is worth reaching out to a partner who has already implemented such projects many times and can therefore support you on your journey to a hybrid IT architecture, end-to-end.



Introducing PRIMEFLEX Integrated Systems

This is exactly where PRIMEFLEX integrated systems from Fsas Technologies come in. With PRIMEFLEX, Fsas Technologies provides a whole range of pre-defined, integrated, and tested hybrid IT-enabled systems that have been engineered by Fsas Technologies and its strategic technology partners to streamline the deployment, operation and maintenance of IT infrastructure. This enables organizations to build a private cloud in their data center that seamlessly extends to a hybrid IT environment.

Thanks to the unique combination of a preintegrated and certified technology stack, standardized implementation and infrastructure support services providing technical solution support with a single point of contact, PRIMEFLEX systems offer a significant better life cycle experience in operating hybrid IT architectures.

Reduce life cycle costs

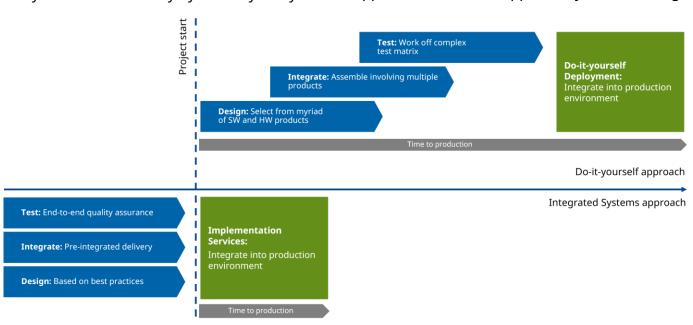
As a result, PRIMEFLEX systems enable huge OPEX savings in every phase of the system lifecycle. In a user survey by industry analyst



FreeForm Dynamics, over 80% of all respondents said that they have already seen or expect significant cost, efficiency, and security benefits from pre-integrated systems, taking design, testing, deployment, integration, operation, and maintenance into account.

Faster time to production

The figure below clearly demonstrates the enormous time savings that can be achieved by choosing an integrated system with PRIMEFLEX rather than adopting a do-it-yourself (DIY) approach. With a DIY approach, you must design



the infrastructure, integrate the individual components, and test this combination of components before the actual onsite deployment and integration in the production environment starts. With PRIMEFLEX, Fsas Technologies has already completed all these activities, and your project starts with a fast and efficient implementation service delivered by Fsas Technologies experts. This way, PRIMEFLEX systems provide up to 80% faster time to production and free your organization from allocating valuable staff resources for timeconsuming infrastructure deployment activities.

Enjoy outstanding flexibility and choice

PRIMEFLEX systems offer a broad range of options to fine-tune your data center infrastructure to your needs. The portfolio provides flexibility and choice in terms of architecture (converged and hyper-converged), storage (Fsas Technologies and NetApp), virtualization and cloud management software (VMware, Microsoft, and Nutanix), as well as licensing (OEM, resale, subscription or bring your own). PRIMEFLEX systems offer comprehensive support for a wide range of workloads, including databases (SQL, Oracle, and SAP HANA), business-critical applications, cloud-native solutions, and AI/machine learning

initiatives. These systems are equally adaptable to diverse environments, from general-purpose virtualization and VDI to containerized deployments and remote/branch office locations.

Deploy cutting-edge technology

PRIMEFLEX systems are built from best-in-class components, either using our own technologies from the PRIMERGY server and ETERNUS storage portfolio, or those of leading third-party vendors. All systems are harmonized to optimally support your particular use case and to give you the performance and capacity headroom to extend your system's lifecycle and reduce migration costs.

Streamline operations

PRIMEFLEX systems offer integration of virtualization management software with the Infrastructure Manager (ISM) from Fsas Technologies, enabling a converged life cycle management across servers, storage, networking, and third-party devices. ISM allows you to gain actionable insights, reassign workloads, and redirect network traffic to increase the responsiveness of your IT to the business. Benefit from troubleshooting that is 23 times faster, 70% reduced operating system



installation time, 90% less time for firmware updates, and 50% lower power consumption.

Grow as you go

PRIMEFLEX systems allow you to start small and grow as your demands increase, easily aligning your infrastructure to changing capacity and performance requirements. The systems are designed to support vertical and horizontal scalability, enabling you to select the architecture that best supports the specific scalability requirements of your application landscape.

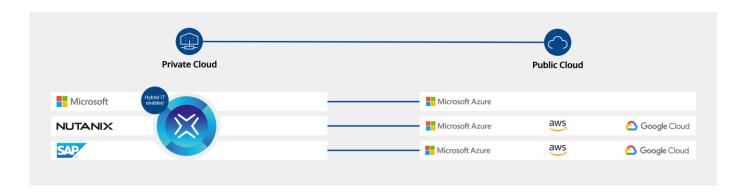
Best business protection

From a single component to an entire site, PRIMEFLEX systems safeguard your business

operations. All components feature extremely low annual failure rates, and you can select from a wide range of high availability, disaster recovery, data protection and security options to fulfill the service levels your business requires.

Simplify the path to hybrid IT

To support your application workloads in hybrid IT environments, PRIMEFLEX systems integrate with major public cloud services like Microsoft Azure, Amazon Web Services or Google Cloud. This allows you to adopt the best mix of cloud and on-premises technologies that provide the most value for your business.



Portfolio overview

The PRIMEFLEX portfolio covers a broad range of usage scenarios across virtualization, cloud, and SAP environments. The availability of the individual offerings may differ by region.

	PRIMEFLEX for Microsoft Storage Spaces Direct	PRIMEFLEX for Microsoft Azure Stack HCI	PRIMEFLEX for Nutanix	PRIMEFLEX for SAP HANA	PRIMEFLEX for SAP Landscapes
Architecture	HCI (Windows Server OS based)	HCI (Azure Stack HCI OS based)	HCI	CI or HCI	CI
Server	PRIMERGY RX	PRIMERGY RX	PRIMERGY RX	PRIMERGY RX	PRIMERGY RX, CX
Storage	Local disks	Local disks	Local disks	CI: ETERNUS DX/AF, NetApp FAS/AFF, other HCI: Local disks	NetApp FAS/AFF and V-Series
Networking	Any	Any	Any	Cisco, Juniper, other	Cisco
Hypervisor	Microsoft	Microsoft	Nutanix, VMware	Bare-metal, SUSE KVM, VMware	Bare-metal, SUSE KVM, or VMware
Software- Defined Networking	Yes	Yes	Yes	No	No
Container- Management	Azure Kubernetes Service	Azure Kubernetes Service	Nutanix Kubernetes Platform	No	SUSE Rancher
Infrastructure management	ISM (optional)	ISM (optional)	ISM (optional)	ISM (optional)	FlexFrame Orchestrator ISM (optional)
Scalability	2-16 servers	2-16 servers	2 - any # of servers	Bare-metal: 16 Virtual: 3 to 64	3 - any # of servers
Public cloud options	Azure	Azure	AWS, Azure, GCP	AWS, Azure, GCP	AWS, Azure, GCP
Hybrid cloud connectivity	Azure Arc	Azure Arc	Nutanix Cloud Platform	PCG ALPACA	PCG ALPACA

PRIMEFLEX for Microsoft Storage Spaces Direct

PRIMEFLEX for Microsoft Storage Spaces Direct offers a hyper-converged infrastructure solution based on Microsoft's software-defined technology (Storage Spaces Direct) within Windows Server Datacenter. The solution provides integration with Azure Kubernetes Service (AKS) for container orchestration and leverages Azure Arc for unified hybrid cloud management with Azure. Utilizing certified PRIMERGY RX servers equipped with local disks, scalability ranges from 2 to 16 servers, and optional infrastructure management capabilities are available through ISM.

PRIMEFLEX for Microsoft Azure Stack HCI

PRIMEFLEX for Microsoft Azure Stack HCI is a hyper-converged solution built on Azure Stack HCI, Microsoft's purpose-built operating system for HCI. It offers a streamlined path to hybrid cloud, native Azure connectivity, subscription-based licensing, advanced disaster recovery features (like stretched clusters), and integrated Kubernetes capabilities. Utilizing certified PRIMERGY RX servers with local disks, this solution scales from 2 to 16 servers, with optional infrastructure management via ISM.

PRIMEFLEX for Nutanix

PRIMEFLEX for Nutanix is a hyperconverged infrastructure (HCI) solution based on the Nutanix software stack. It supports multiple hypervisors, including Nutanix AHV and VMware vSphere, and incorporates the Nutanix Kubernetes Platform for container management. Hybrid cloud connectivity is facilitated through the Nutanix Cloud Platform, enabling integration with AWS, Azure, and GCP. Running on certified PRIMERGY RX servers with local disks, the solution provides linear scalability from 2 servers to virtually unlimited capacity. Optional infrastructure management capabilities are available through ISM.

PRIMEFLEX for SAP HANA®

PRIMEFLEX for SAP HANA streamlines the implementation and operation of SAP HANA, delivering a fast, secure, and SAP-certified integrated system. Supporting scale-up and scale-out architectures, including SAP HANA TDI, the solution leverages advanced technologies like persistent memory and offers customizable disaster recovery. With comprehensive services spanning all project phases and deployment options including bare metal and VMware virtualization (based on VMware vSphere or VMware vSAN), PRIMEFLEX for SAP HANA empowers businesses to fully exploit SAP HANA's potential and accelerate innovation.

PRIMEFLEX for SAP Landscapes

PRIMEFLEX for SAP Landscapes optimizes entire SAP environments, providing the agility and scalability needed to support future business growth. Powered by FlexFrame® Orchestrator, it simplifies the management of complex SAP landscapes, including SAP HANA, significantly reducing administrative overhead and costs. Centralized SAP software components can be dynamically deployed across physical, virtual, and cloud resources based on demand. The solution supports a wide range of IT provisioning models, including on-premises, managed services, and cloud deployments, and offers support for container environments managed by SUSE Rancher.

Data protection solutions

A backup solution within the same system does not protect your data against disaster, system failure, data corruption, or deletion. Therefore, it is mandatory to store business-critical data separately. Fsas Technologies offers a broad data protection portfolio to protect your business against outages and cyberattacks. This includes such advanced storage management capabilities as deduplication, replication, archiving, and a cross-media mix. We provide a solution for every business, whether small, medium-size, or enterprise-scale.

Modern Data Management and Protection

Fsas Technologies offers a comprehensive data protection portfolio with a wide range of products (appliances, tape storage, backup software) and various service levels depending on your needs. Quickly protecting and consolidating your business-critical data across edge, core, or cloud. Our portfolio provides comprehensive functionality for multi-cloud platforms, physical, and virtual environments, including backup, archiving, deduplication, disaster recovery, replication, snapshot, and tape support.

Automated Backup and Recovery

Our solutions automate backup, disaster recovery, and testing across multiple platforms (clouds, physical or VMs) with reduced cost, effort, and risk. Advanced automation of repetitive or highly complex tasks streamlines operations and minimizes human error and data loss. Granular recovery gives you the flexibility to restore your environment from full databases, VMs, or a single file. Data protection software from our partners Commvault, Veritas, and Veeam leverages deep integration for all modern hypervisors, such as VMware, Hyper-V, Nutanix Acropolis Hypervisor (AHV) and many cloud storage options across public and private clouds. Making the recovery of mission-critical applications fast and easy to manage.

Rich Data Lifecycle Management

Our policy-based data protection offers you a rich lifecycle management and ensures that all your business-critical data remains protected. You can define storage policies and retention periods to archive or remove outdated data. For example, you can include or exclude VMs for data protection, shut them down, relocate them to secondary storage or automatically archive stale VMs. Different kinds of data must be protected with different SLAs, determining how many copies must be kept for how long, and whether the strongest protective measures are always necessary. This is why you can also optimize the recovery speed and retention period of the backup data, combining multiple storage media (disk, dedupe disk, flash, tape, or in the cloud) according to your requirements.

Efficient Disaster Recovery

Our data protection portfolio enables flexible local, central, and remote backup and disaster recovery concepts – allowing you to backup to disk, tape or cloud, or copy data to another remote appliance with the integrated replication feature. All these capabilities guarantee uninterrupted operations, minimize planned and unplanned downtime, and ensure business continuity should disaster strike.

Compliance Regulations

For compliance issues your administrator can define customized policies to prevent unauthorized access, defining who can access and share specific files and folders. Analytics and reporting features provide data insights to ensure that your sensitive business data remains safe while fulfilling compliance regulations (including GDPR), and built-in data encryption minimizes the risk of information being stolen or lost.

Service options

PRIMEFLEX is supplemented by flexible service options throughout all lifecycle phases. These cover consulting, design, onsite deployment, integration of the new infrastructure into your existing environment and migration services, lifecycle management, and maintenance.

Assessment Services

Fsas Technologies is offering the following assessment services to support your hybrid IT and SAP infrastructure projects.

Hybrid Cloud Assessment Service

The Hybrid Cloud Assessment service is a costeffective, light touch consulting engagement that serves as a guide for organizations seeking to define a hybrid multi-cloud strategy. In as little as 6 weeks, HCAS delivers a tailored strategy to optimize your investments in cloud or on-premises infrastructure for enhanced performance and cost savings.

Best Place - Data-driven cloud advisor for SAP workloads

The service provides data-driven decision support on the challenge to identify best-suitable operating environments for given SAP workloads. Based on customer-specific requirements, existing constraints, measured workloads, resource demands, and cost estimations, a placement recommendation is provided for each assessed SAP system.

SystemInspection Service Suite for SAP Solutions

The SystemInspection Service Suite for SAP Solutions is an analysis and consultation package for SAP infrastructure environments, offered at a fixed price. As part of the service, customers get a complete understanding of the current workload, performance, and related resource consumption, plus guidance for optimizing SAP landscapes in line with the required service levels.

Implementation Services

To enable a fast time to production of a PRIMEFLEX solution, Fsas Technologies offers a range of standardized ImplementationPacks with a single order code and price tag covering the creation of a low-level design, the installation including all hardware and software components, the option to deploy workloads provided by the customer, and the handover of all documentation upon successful completion of the project. The new PRIMEFLEX Implementation Desk along with the easy-to-use web-based PRIMEFLEX Deployment Portal makes infrastructure deployment faster, more reliable and secure. Experience from many successful project implementations clearly shows that a well-executed and documented implementation is an important pre-requisite for delivering highquality infrastructure support services and ultimately for improved customer satisfaction.**

Infrastructure Support

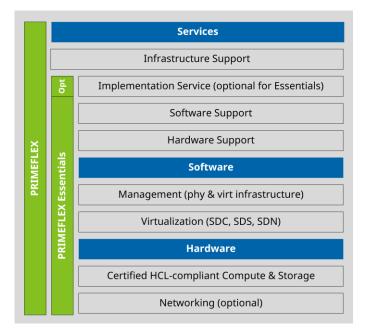
By choosing the Infrastructure Support offering, Fsas Technologies or one of its certified partners will be your single point of contact for all support matters related to PRIMEFLEX. The SolutionPacks and SolutionContracts for integrated systems provide you with end-to-end, 24/7 infrastructure support covering the complete hardware and software stack including third-party components. Both service options relieve you of headaches caused by unpredicted problems during operation, while ensuring operational efficiency. A unique solution identifier for all PRIMEFLEX systems allows our support teams to make solution-level decisions when working with these often-complex systems. For example, this enables us to route support calls to specialized, solution-aware support engineers, resulting in smoother support interactions with shorter resolution times. Beside reactive services based on optimized processes, Fsas Technologies also offers optional proactive services. These comprise a regular system health check to detect critical system conditions at an early stage such that preventive maintenance measures can be initiated. Just as there are various service level options available, which differ in service scope, response and recovery time, you can also define the frequency of proactive services.*

Financing Solutions

In addition to the above-mentioned services. Fsas Technologies offers a complete range of financing solutions, such as IT leasing, trade-in, buy back or even cloud-like financing models. With uSCALE, the pay-per-use consumption model is no longer a domain of the cloud. from Fsas Technologies is now helping organizations to achieve pay-per-use agility across their entire IT landscape, including their on-premises data center. uSCALE pay-per-use is an IT platform consumption service that supports business transformation and IT agility with scalable resources that are measurable, cost transparent, and tailored to your needs. It offers cloud-like delivery for your on-premises infrastructure and is deployed at mutually agreed uSCALE service locations, e.g., customer data center or colocation facility. You pay only for what you use, with simple and predictable monthly costs aligned with the scope of the service—such as per Gb of storage or each instance of VM.**

Delivery options

To ensure a smooth deployment and easy maintenance, the default delivery option for PRIMEFLEX systems includes a mandatory onsite implementation service and an infrastructure support service that provides technical solution support with a single point of contact for support. Companies who have sufficient resources in their IT department to deploy and maintain the IT infrastructure on their own, can choose the PRIMEFLEX Essentials option. This option includes the same core elements, the certified hardware and software stack including the respective single component support. While Technical Solution Support is not available for PRIMEFLEX Essentials, customers can still opt for an implementation service.



^{*}Availability depends on local terms and conditions. Please contact your local sales representative.

^{**}Availability depends on configuration size and local terms and conditions. Please contact your local sales representative.

Summary

With integrated systems from Fsas Technologies you can make the transformation to a hybrid IT infrastructure with confidence. By choosing Fsas Technologies, you will benefit from our globally available experience in deploying data center infrastructures of all sizes and the longest track record in delivering integrated systems – our first shipment was back in 2002.

We help you:

- Understand which modern solutions and techniques are available, and how they allow you to think and/or act differently
- Gain insights into the latest developments regarding best practices, technology options, and service delivery
- Devise an effective hybrid IT architecture and then select the right mix of components to implement it

Fsas Technologies is one of the few companies in the world who has everything in place to accelerate your transformation to Hybrid IT - the hardware, software, services and strong partnerships with major technology providers. This puts us in a unique position to provide you with unbiased advice to co-create an ideal solution that perfectly suits your organization's needs.

More information about PRIMEFLEX Integrated Systems from Fsas Technologies.

www.fujitsu.com/emeia/primeflex

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