Deliver IT at the speed of business
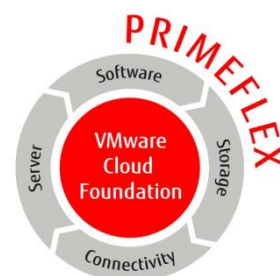
leveraging a Software Defined Data Center

PRIMEFLEX

Software

VMware Cloud Foundation

Server

Storage

Connectivity

FUJITSU Integrated System PRIMEFLEX for VMware Cloud Foundation
Fast track to your VMware Software Defined Data Center

Data Center Architecture in Transition

While virtualization of compute resources has greatly improved data center operations throughout the last decade, many organizations are now looking to extend virtualization to further IT resources adopting a strategy aimed at establishing the Software Defined Data Center (SDDC). SDDC provides the operational efficiency and agility necessary to cope with the ever increasing demand for more responsive and cost-efficient IT support.

However, building an SDDC environment in a do-it-yourself approach could be a complex, time-consuming and error-prone process. In order to reduce risk, Fujitsu, VMware and Brocade have been working together to provide a ready-to-run factory-integrated system including all hardware and software required for rapidly deploying a rack-scale hyper-converged software defined data center infrastructure, which enables IT organizations to run highly scalable general purpose server virtualization environments, virtual desktop infrastructures or

Infrastructure as a Service deployments in a private cloud. Based on a high performance Fujitsu/Brocade hardware platform and market leading VMware software technology featuring software-defined compute, storage and networking in combination with integrated management of physical and virtual resources, PRIMEFLEX for VMware Cloud Foundation is ideal for enterprises and service providers demanding fast time to production, reduced management complexity and lower TCO.

Your advantages

- Faster time to production for your SDDC infrastructure
- Increased operational efficiency and productivity
- Reduced on-going lifecycle management efforts and OPEX

Fujitsu PRIMERGY x86 servers – high virtualization performance and energy-efficiency

The foundation of PRIMEFLEX for VMware Cloud Foundation is based upon a hyper-converged infrastructure deployed on Fujitsu PRIMERGY x86 rack servers delivering high virtualization performance, while at the same time providing the best in terms of server density, low energy consumption, heat optimization and lower overall operational costs. Fujitsu x86 servers have a long and proven track record reflected in outstanding benchmarks, with top rankings in most VMware VMmark benchmark categories. Thanks to the Fujitsu Cool-safe® advanced thermal design, additional cooling costs can be saved on top of the comparably low energy consumption.

Fully integrated physical network infrastructure

PRIMEFLEX for VMware Cloud Foundation includes a prescriptive network design within and across racks. The design requires a leaf-spine topology that consists of top-of-rack and spine switches. Each physical rack contains two Brocade VDX 6740 top-of-rack switches, which control network traffic and redundancy, and a Brocade VDX 6740-T1 management switch, which provides the connectivity for out of band management. Brocade VDX switches help you build a smart virtualization strategy by meeting the demands of today's applications with easy scalability and automated management. With scale out across multiple racks, east-west traffic is fully self-contained. Connectivity between racks is provided by using two Brocade VDX 6940-36Q inter-rack spine switches. In addition, customers can connect to existing datacenter infrastructure using L2/L3 uplinks through the top-of-rack switches.

Integrated management of physical and logical resources

PRIMEFLEX for VMware Cloud Foundation includes the VMware Cloud Foundation software stack consisting of VMware vSphere®, Virtual SAN™ , NSX® and the SDDC Manager. In combination with Hardware Management Services (HMS) the SDDC Manager provides a single centralized view into both the physical and logical infrastructure—from hardware device level details to network topology to VMs. Optionally, VMware Horizon® and VMware vRealize® may be integrated to address VDI or IaaS use cases.

Automated bring up and configuration

PRIMEFLEX for VMware Cloud Foundation can be put into production within a few hours instead of days or weeks, which provides IT organizations with the fastest way to deploy a complete infrastructure for a Software Defined Data Center.
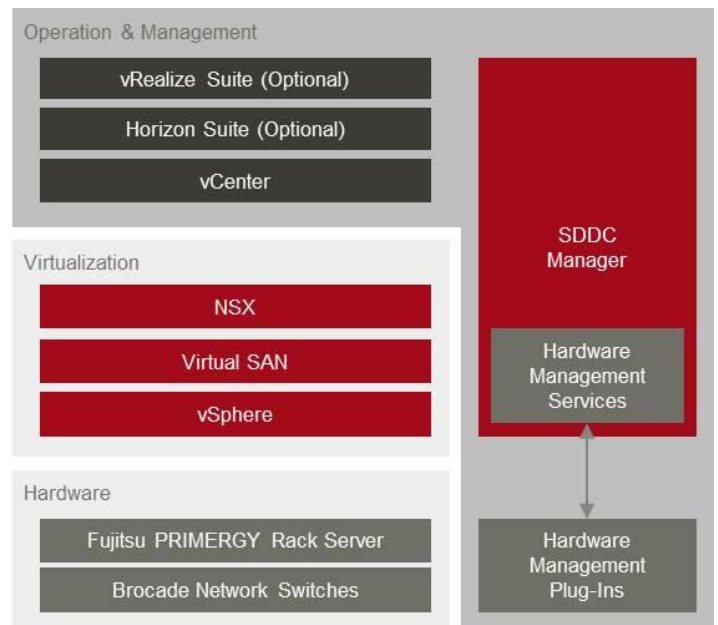
Non-disruptive automated infrastructure lifecycle management

The SDDC Manager delivers key infrastructure lifecycle management tasks, including upgrades and updates, enabling huge reduction of maintenance efforts and significant OPEX savings.

Streamlined resource management

The SDDC Manager aggregates physical resources distributed across multiple physical racks into a single pool of capacity, or a single virtual rack. Within this virtual rack, resource groups (workload domains) can be carved out with defined performance, availability and security attributes.

http://www.fujitsu.com/primeflex

Operation & Management
- vRealize Suite (Optional)
- Horizon Suite (Optional)
- vCenter

Virtualization
- NSX
- Virtual SAN
- vSphere

Hardware
- Fujitsu PRIMERGY Rack Server
- Brocade Network Switches

SDDC Manager
- Hardware Management Services
- Hardware Management Plug-Ins

Flexible and dynamic scalability

The Hardware Management Services (HMS) in combination with hardware management plug-ins provided by Fujitsu and Brocade enable auto-discovery of new physical capacity additions, which can be as small as one server increment, and seamlessly add those resources to the virtual rack for consumption. Larger scale capacity additions at a physical rack level follow a similar non-disruptive path to flexibly extend the virtual rack to larger physical capacity.

Single point of contact for support

Fujitsu acts as a single point of contact for support for both the hardware and the software. This translates into easier support collaboration between a customer and the system provider leading to faster incident resolution times.

Financing solutions from Fujitsu Financial Services

As financing is a key element of your data center infrastructure investment decision, Fujitsu Financial Services offers you a complete portfolio of IT leasing and financing solutions, as well as Trade-In and Buy-Back options. These solutions deliver benefits at every stage of the transition to your new private cloud infrastructure – from the removal of the old IT equipment and the gradual implementation of the new systems, plus a Tech Refresh option a few years down the line.

Shaping the future of your IT infrastructure together with you

By choosing Fujitsu for your Software Defined Data Center project, you will profit from 30+ years of experience in delivering data center infrastructures and services. For more than a decade Fujitsu and VMware have been maintaining a long-standing strategic partnership. Being among the first global VMware partners worldwide, Fujitsu has established a portfolio of integrated systems with the broadest alignment to the VMware portfolio – spanning from virtualization and Software Defined Data Center to the cloud.

Solution partners:

vmware®

BROCADE