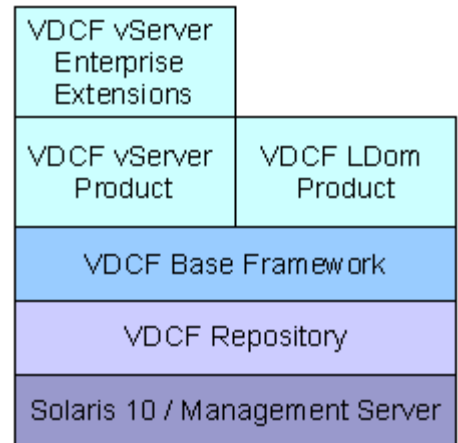


The Virtual Datacenter Control Framework (VDCF) is a platform management framework for the Solaris Operating System. VDCF allows you to run a virtualized data center using Solaris 10 Containers and/or Logical Domains controlled by a centralized management server.

The VDCF product family consists of a common base framework and two separately available products. The VDCF vServer product is used to manage Solaris 10 Containers (Zones). Deployment of Logical Domains available on Sun CMT Server is provided by the VDCF LDom product. To use both Virtualization technologies both products may be combined to get the most flexibility and benefit.

With VDCF, JomaSoft offers a tool to simply and effectively operate your Solaris 10 based virtual data center. On a central management server you create definitions and configurations, which are stored in the Configuration Repository. This information is then used by VDCF to populate physical servers with a Solaris build from which virtual servers or logical domains are created.

## The components of VDCF:



## Highlights

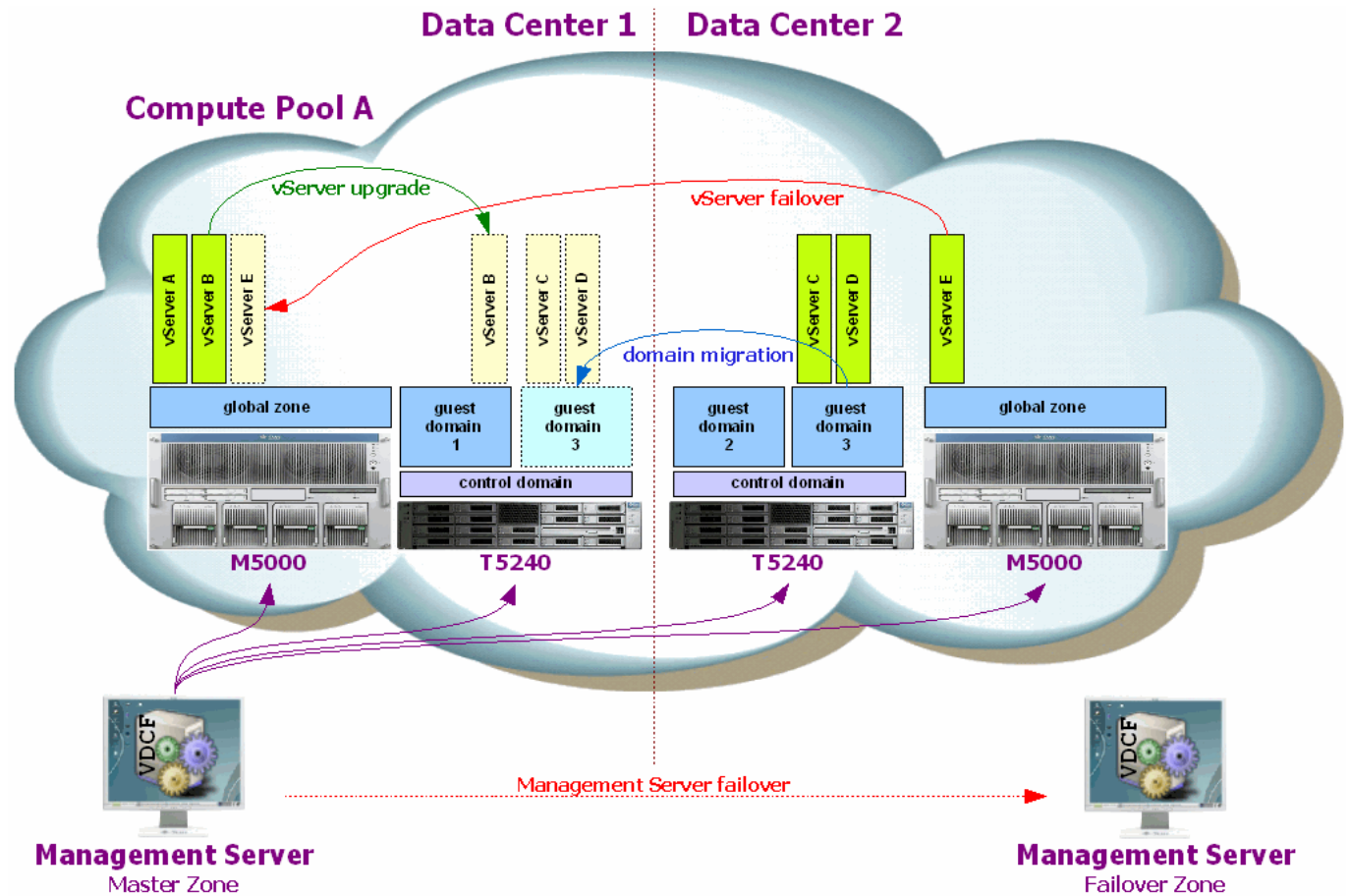
- x **Simplicity**  
Using VDCF, a customer is able to deploy and manage Virtual Solaris Environments without a deep Solaris knowledge. The virtual data center is managed using only a handful of intuitive VDCF commands.
- x **Standardization**  
Virtual Servers are deployed using supported Solaris technologies, managed in a standard way and able to be deployed and available for use in minutes rather than hours.
- x **Availability**  
VDCF allows manually or automatically control of server migration or fail-over leading to improved options in availability and performance.
- x **Flexibility**  
Freedom to use preferred technologies, VDCF integrates fully with ZFS, Solaris Volume Manager, Sun Cluster and Symantec Foundation products all using the same standard VDCF commands. A modular approach allows bespoke and additional standard features to be added.
- x **Automation**  
The framework design uses standard builds, reusable system configurations and automated software deployment that simplify production and maintenance.
- x **Central Management Server**  
The Management Server provides a centralized place where a complete overview of the data center provides opportunities for more effective planning and control. Automated system configuration decisions that rely on the VDCF repository limits mistakes from human error.
- x **Security**  
An enhanced security model that allows deployment of services without the need for root access.

## Key Features

- x **VDCF Base Framework**  
*Node Installation and Configuration*  
The Base Framework provides tools to install the physical servers (Nodes) using the Solaris Flash-Archive and WAN-Boot/JumpStart technologies. Profiles and system configurations stored in the central Repository allow for automatic installation and configuration of standardized Nodes part of a pool managed by VDCF.  
*Patch Management*  
For successful vServer Migration between Nodes a consistent Patch Deployment is absolutely necessary. Based on Sun's Update Connection VDCF analyzes your Nodes and downloads the required Patches. Patch Installation is based on Patch-Set definitions, is repeatable and even supports Cluster environments.
- x **VDCF vServer Product**  
*vServer Installation and Configuration*  
All vServer elements like disks, filesystems and network interfaces are first defined in the VDCF Repository and later deployed to the Node using a commit operation. Resource consumption (RAM, CPU, etc) may be limited using Resource control definitions.  
*vServer Availability*  
A vServer may be migrated between compatible Nodes and Guest Domains, if they run at the same Patch-Level. This is even possible in Disaster Scenarios and High Available Cluster environments. Starting with Solaris 10 10/08 it is possible to upgrade a vServer while it is attaching to its new Node or Guest Domain.
- x **VDCF LDom Product**  
A Sun CMT Server, which includes a hardware Hypervisor, may be setup as Control Domain. Guest Domains are independent running full Solaris Operating System instances. With VDCF you define and deploy multiple Guest Domains on top of a Control Domain.

## Availability and Flexibility in your Data Center

The following picture shows two data centers and the possibilities to migrate vServer when using the products VDCF vServer and VDCF LDom.



## Supported Environments

- ✓ Server  
Sun SPARC Server and x86 Server
- ✓ Solaris Operating System  
Solaris 10 Update1 (1/06) or later
- ✓ Branded Zones  
solaris8, solaris9
- ✓ Volume Manager  
Solaris Volume Manager (SVM), ZFS,  
Veritas Volume Manager
- ✓ Filesystem  
Solaris UFS, lofs, ZFS, Veritas vxfs
- ✓ SAN / iSCSI  
Storage and HBA's compatible to  
SUN StorEdge SAN 4.4.x  
Multipathing using STMS/MPXIO  
iSCSI Targets compatible to Solaris iSCSI Initiator
- ✓ Terminal Server  
Blackbox, Cyclades, IOLAN
- ✓ System Controller  
SC/ALOM, RSC, SSC, 15K, XSCF, ILOM
- ✓ High Availability  
Sun Cluster 3.2, Veritas Cluster 5.0

## Learn More

Detailed information about VDCF is available on our Website  
<http://www.jomasoft.com/products/VDCF/docs>