iNetLink
TECHNOLOGIES

INT NETLINK's Past Projects

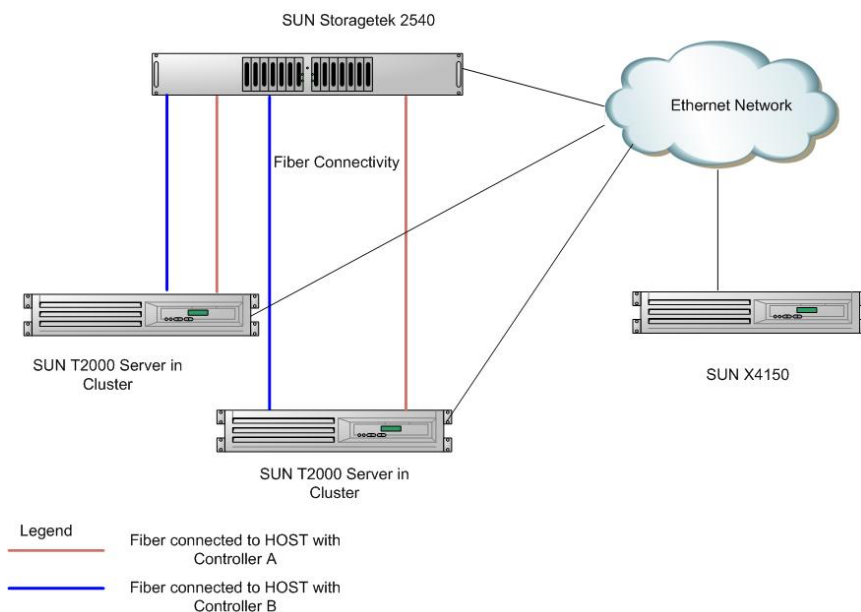# System/Storage for second Service Provider

Afghanistan

One of the Reputed GSM operators in Afghanistan required a stable and reliable Server Hardware for their SMSC Application and with 24X7X365 on-site support.

Solution Overview

The solution is based on SUN T2000 Servers configured in Redundant mode with Sun Cluster Software, MySQL Database, Sun X4150 for Voice based application. The Sun Storagetek 2540 is configured for Data Storage.

SUN Storagetek 2540

Ethernet Network

Fiber Connectivity

SUN T2000 Server in Cluster

SUN T2000 Server in Cluster

SUN X4150

Legend

Fiber connected to HOST with Controller A

Fiber connected to HOST with Controller B

SMSC Logical Layout

Solution Description

Sun T2000 Server

The Sun Fire T2000 Server is the best 2RU system on the planet for delivering transaction and web services when measured by the new SWaP (Space, Watts, and Performance) benchmark. The SWaP benchmark highlights what's important in today's data centers as the quotient of Performance/Rack Space/Watts. The performance numerator is measured by industry standard, audited benchmarks.

> ➢ Record-breaking performance, unequaled energy savings, and space-saving compute density
> ➢ Up to 32 simultaneous processing threads and up to 64 GB memory
> ➢ Drive up utilization, drive down costs, and massively consolidate workloads with built-in, no-cost virtualization technology with Logical Domains (LDoms) and Solaris Containers
> ➢ A range of Linux distributions have been certified for the UltraSPARC T1 processor.

Key Applications
☐
> ➢ Web serving and streaming media
> ➢ Java Application Servers and Virtual Machines
> ➢ Network infrastructure

Key Benefits
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- Breakthrough Coolthreads technology delivers extreme performance and performance per watt running the most advanced Operating System on the planet, Solaris 10
- Significant power, cooling, and space savings, allowing you to add significant capacity within your existing data center while saving millions in operational costs
- Built for the delivery of demanding web & transaction services
- Built-in, no-cost virtualization technology with Logical Domains (LDoms) and Solaris Containers
- High levels of system uptime through the extensive processor and memory RAS, coupled with redundancy of systems components, support for HW RAID (0+1) and the predictive self healing features of the Solaris 10 OS
- Easy, efficient integration and connectivity

Sun X4150 Server

The **Sun** Fire **X4150** server, the most space-efficient and energy-efficient 2-socket 1U x64 server powered by Quad-Core Intel Xeon processors

The Sun Fire X4150 server, powered by Quad-Core Intel® Xeon® processors, is the best 1RU 2-socket x64 server. With Sun's unique design principles, the Sun Fire X4150 server beats all others in terms of performance, expandability, and energy efficiency for Solaris, Linux, Windows, and VMware applications. If you're looking for maximum compute density, leading storage capacity, and networking connectivity in a single rack unit

- Accelerate application response times and slash energy consumption with Flash SSDs
- Rack-optimized 2-socket x64 server
- Supports up to 2 processors (8-CPU cores) , 8 SAS Disk Drives and 16 memory DIMMs in a 1RU form factor
- Energy-efficient design saves on power and cooling
- Comprehensive and easy-to-use system management and monitoring built into every system
- Choice of virtually any OS: Solaris, Linux, Windows, VMware

Key Applications

- Web server
- Virtualization and consolidation
- Security, DNS, caching, firewall
- High performance grid computing

Key Benefits

- Get more computing cycles using far fewer servers in your datacenter
- More growth headroom through ultra-expandable memory, storage, and network connectivity
- More energy efficiency to significantly cut power and cooling costs, and maximize density
- More uptime and higher service levels through high-availability features
- More ways to gain a higher return on investment

Sun Storagetek 2540

The affordable Sun StorageTek 2540 array is ideal for primary workgroup and enterprise-class tier 2 storage. The array delivers reliable RAID functionality and the highest availability in its class. The flexible, high-density array is easy to deploy with Fibre Channel and optimized for rack-intensive environments.

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- High availability, reliability, and density
- Supports Fibre Channel infrastructures
- Scales up to 48 drives

- ➢ NEBS Level 3 certification

Key Applications

- ➢ Low-cost Fibre Channel storage
- ➢ Shared files and email
- ➢ Distributed database
- ➢ Web/edge and digital assets
- ➢ HPC/Grid
- ➢ NEP/Telco

Features and Benefits

Designed for flexibility, the Sun StorageTek 2540 array provides consolidated RAID to Fibre Channel host interfaces. The easy-to-use array delivers better price/performance and greater rack density than comparable solutions and assures you of best-of-breed technology, reliability and affordability.

Key Benefits

- ➢ Simple, server-oriented management
- ➢ Easy to deploy with Fibre Channel
- ➢ Pay as you grow scalability up to 36 drives
Small footprint for maximum storage density