

Storage on Demand

Cost Effective, Highly Secure, Highly Available, Highly Scalable, High-Performance Storage Solutions

Most businesses will face the need for cost effective, easily expandable storage solutions. BAIS offers a series of flexible Storage Area Network (SAN) **Storage on Demand Solutions** to meet your planned and unplanned capacity needs. BAIS is providing ideal solutions for all your ever changing storage problems.

The Problem:

Expensive, Unpredictable Storage Need

Managing storage capacity is a complex and expensive task.

Companies need to :

- ◆ Predict storage growth for existing applications
- ◆ Anticipate seasonal spikes
- ◆ Foresee future storage needs

In addition, companies have to :

- ◆ Retain qualified IT personnel to be able to maintain, manage and expand storage capacity on demand.
- ◆ Deal with outdated/unsupported storage media
- ◆ Waste capital expenditure on larger storage devices, preparing for unexpected growth.

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High TCO

The Solution:

BAIS' SAN Storage on Demand offered in our world class fully redundant datacenter

Scalable/Secure/Available

- ◆ Buy as you grow scalability
- ◆ Expand easily & quickly
- ◆ Highly available storage, data and network
- ◆ Multiple RAID solutions
- ◆ Constant data availability
- ◆ More flexible than Direct Access Disk (DAS)
- ◆ Easy migration from DAS

Performance

- ◆ High speed connectivity
- ◆ Server, SAN & Controller level load balancing

Save Money:

- ◆ Allow storage consolidation
- ◆ Simplify data management
- ◆ Enable server cluster solutions
- ◆ Let us manage your storage growth needs
- ◆ Save money on capital expenditure
- ◆ Save money on IT personnel

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Lower TCO

Storage on Demand Applications

Use our Storage on Demand Solutions for all your storage needs

- ◆ Database
- ◆ Email
- ◆ Backup
- ◆ Data migration
- ◆ Video surveillance data
- ◆ Multimedia data
- ◆ NFS
- ◆ FTP
- ◆ RSYNC
- ◆ File sharing
- ◆ Temporary space
- ◆ Near-line storage

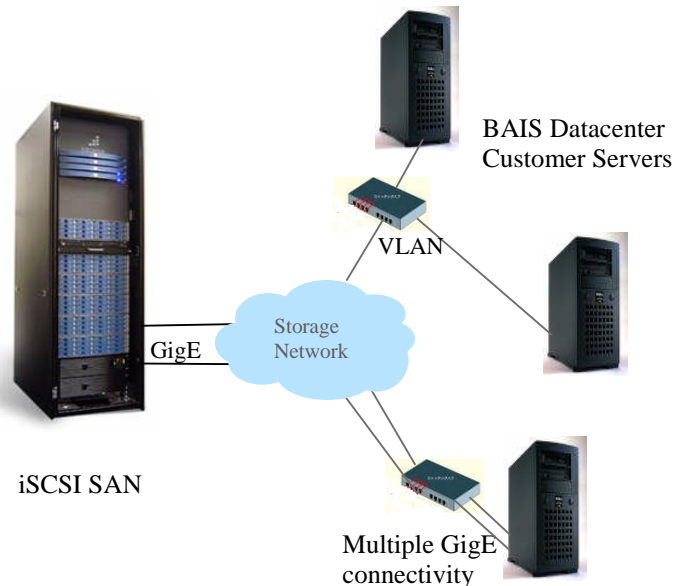
IpSAN on Demand :

This is a premium service customized for BAIS datacenter customers. Datacenter customers can lease storage capacity for their mission critical applications requiring **high performance data transfer**, such as database systems. BAIS is offering iSCSI Storage Area Network (SAN) solutions with GigE connectivity to your server (or optional server cluster) in our IDC.

Security: OSI Layers 1,2,3,4

Multiple levels of security implementations, from physical to application layer, provide unparalleled protection of data and equipment:

- The iSCSI network enables physical and logical security through a private VLAN, which includes:
 - ◆ Port isolation
 - ◆ ACL protected access by predefined IP addresses
- The initiator controls disk volume access using CHAP password protection.
- In addition all equipment is housed in our highly secure IDC.



High Availability: SAN, Data, Network

- ◆ Our SAN is a HA unit with redundant power, control units, and other components.
- ◆ Our premium service includes RAID 10 (a stripe of mirrors).
- ◆ Our IDC is a fully redundant datacenter.

IpSAN Standard Service Setup:

Our premium service includes the following :

- ◆ 100 Gigabytes of mirrored storage (mirrored to another 100GB)
- ◆ RAID 10 (stripe of mirrors)
- ◆ 1 GigE cross-connect (copper)
- ◆ 2 server initiator connections
- ◆ Volume configuration/setup
- ◆ 24/7/365 monitoring and repair

IpSAN Optional Services:

- ◆ Expand your storage capacity as needed, just give us a call (increments of 100 Gigabytes).
- ◆ Choose to have multiple interfaces from the same server to the disk volume for high availability, performance and load balancing.
- ◆ Create a server cluster for performance, high availability and load balancing. (max 10 servers to each volume).
- ◆ Use our backup services for peace of mind.
- ◆ Increase throughput with additional cross-connects.
- ◆ Take advantage of our SAN Consulting Services:
 - ◆ Planning
 - ◆ Implementation
 - ◆ Performance Tuning

Supported Platforms:

The following platforms have been certified:

- ◆ Windows 2000, 2003
- ◆ Redhat ES, AS versions 3 and 4
- ◆ AIX 5.3
- ◆ HP-UX11a and above
- ◆ Solaris 8, 9, 10
- ◆ Novell 6.5

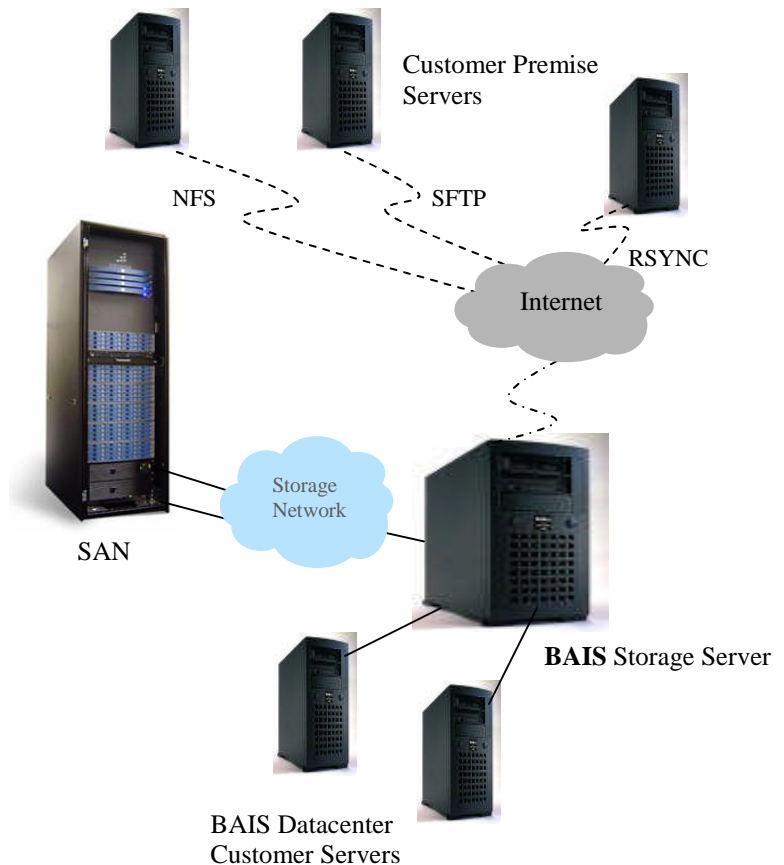
For other platforms please contact our customer service

VStor on Demand:

Customers can choose this solution to connect from their local or remote server location to our storage infrastructure for all their storage needs. This service is best for offsite storage pools and applications requiring unpredictable large amounts of data, especially for file sharing, backup and near-line storage needs.

Benefits:

- ◆ Inexpensive
- ◆ Always available
- ◆ Accessible from anywhere
- ◆ Store, access, and share large amounts of data
- ◆ Storage mounts and looks like a local drive
- ◆ Easy Disaster recovery
- ◆ Expand storage capacity on a needed bases
- ◆ Highly secure IDC



VStor Standard Service Setup:

- ◆ 10 Gig of storage
- ◆ Account setup on BAISS storage server
- ◆ Volume configuration and setup
- ◆ RAID 5 storage (striped with parity)
- ◆ 24x7x365 monitoring and repair

BAISS Storage Server Supported Applications:

- ◆ Unix RSYNC
- ◆ FTP, SFTP
- ◆ Unix Network File sharing (NFS)
- ◆ Windows NTFS (dynamic)

VStor Optional Services:

- ◆ Additional storage capacity in increments of 10 Gigabytes.
- ◆ Backup on DVD for disaster recovery.
- ◆ Customer server configuration for datacenter customers.
- ◆ Direct cross-connects to Storage Area Network.

Storage on Demand Specifications

<i>Part Number</i>	<i>Description</i>
<i>IpSAN on Demand:</i>	
SOD-IPSAN-VOLSU	Setup iSCSI SAN RAID 10 storage on demand (multiples of 100Gig)
SOD-IPSAN-COPGIGESU	Setup of copper GigE cross connection
SOD-IPSAN-FIBGIGESU	Setup of fiber GigE cross connection
SOD-IPSAN-INITSU	Setup of server initiator (standard 2)
SOD-IPSAN-ISCIVOL	Recurring charges for iSCSI RAID 10 storage on demand
SOD-IPSAN-COPGIGE	Recurring charges for copper GigE cross connection
SOD-IPSAN-FIBGIGE	Recurring charges for fiber GigE cross connection
SOD-IPSAN-INITIATOR	Recurring charges for server initiator
<i>VStor on Demand:</i>	
SOD-VSTOR-VOLSU	Setup virtual storage (multiples of 10 Gigabytes)
SOD-VSTOR-FTPSU	Setup RSYNC, FTP and SFTP accounts
SOD-VSTOR-NFSSU	Setup Unix NFS account
SOD-VSTOR-WINSU	Setup Windows file sharing account
SOD-VSTOR-ETHCROSSU	Setup for Ethernet Cross Connection
SOD-VSTOR-FIBCROSSU	Setup for Fiber Cross Connection
SOD-VSTOR-VOL	Recurring charges for RAID protected (2 servers) storage
SOD-VSTOR-ETHCROS	Recurring charges for Ethernet Cross Connection
SOD-VSTOR-FIBCROS	Recurring charges for Fiber Cross Connection
<i>DVD/CDR Backup solutions:</i>	
SOD-VSTOR-MDVD	Monthly DVD backup
SOD-VSTOR-WDVD	Weekly DVD backup
SOD-VSTOR-BDVD	Bi-weekly DVD backup

BAIS: The Smart Choice

BAIS has been successfully delivering best of breed enterprise level Internet solutions to small and large businesses since 1995. BAIS is reputed for superior customer service and delivering ultra fast reliable connectivity in its world-class, fully redundant N+1 Internet Datacenters.

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