



Hyper-Convergence vServer FT(Fault Tolerance)

3Gen
Data Systems

3Gen vServer Fault Tolerance delivers 24X7 continuous availability

Provides zero-downtime, zero-data loss, continuous availability for any application, without the cost or complexity of traditional solutions.

Delivers uninterrupted service with simplicity and low cost

Fault-Tolerance Solution works with existing 3Gen HCI platform. Any virtual client can activate fault tolerance protection by enabling software license key.

Industry standard x86 system support with unlimited number of virtual CPU cores

3Gen Fault Tolerance Solution is a purpose-built and enterprise-ready solution with automated monitoring and self-tuning algorithm to ensure continuous, uninterrupted operation.

Low TCO via industry-standard infrastructure with flexible storage options

Supports all standard internal storage options including all-flash, SAS and SATA hard disks. Supports all external storage options including JBOD, FC and network storage.

2X faster performance than other competitive products

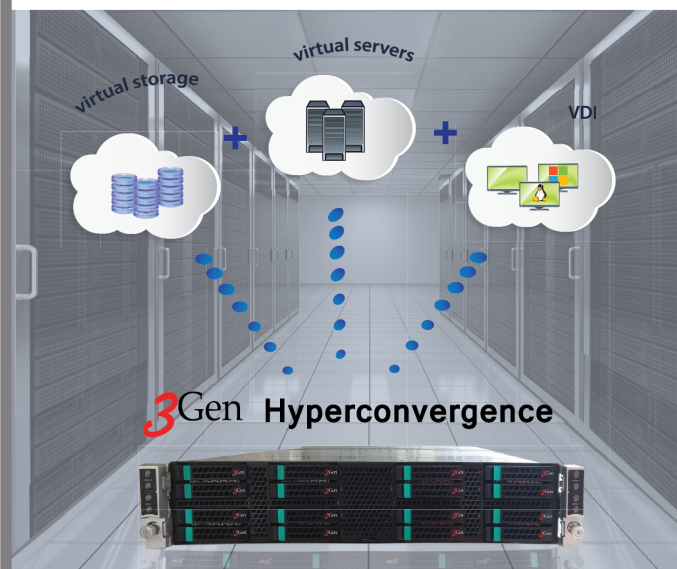
3Gen proprietary distributed block-based virtualization technology incorporates the latest 3Gen I/O technologies to provide 2X faster performance than other competitor's file-based virtualization solution.

Lock tight security for all IT data and assets

Best-in-class security incorporated into every step of the product lifecycle from development to deployment and operation

Simple and Speedy installation and support via 3Gen Worldwide Support and Global trained partners

Best-in-class support team handles the installation and support throughout the life of the product.



High Value with Unbeatable ROI

3Gen Fault Tolerance (FT) is a new component of 3Gen HCI vServer solution that provides continuous availability to applications; prevent downtime and data loss in the event of system failures. Traditional solutions that address this problem through hardware redundancy or clustering are complex and expensive. 3Gen vServer HA solution addresses system failures by automatically restarting virtual machines on alternate systems. 3Gen Fault Tolerance takes high availability to the next level, completely eliminating downtime due to hardware failures with simplicity, at a low cost across all commercial and custom build applications.

3Gen Proprietary Fault Tolerance Technology based on 3Gen Lockstep algorithm

3Gen Fault Tolerance creates a live instance of the primary virtual machine and run in parallel on another physical system. 3Gen Lockstep algorithm enables the two virtual machines execute the exact same set of events at any given time. The two virtual machines constantly heartbeat against each other and if either virtual machine instance loses the heartbeat, the other takes over immediately. The failover is instantaneous with no loss of data or state.

High Usability

3Gen Fault Tolerance has a web based interface can be installed in just 15 minutes with plug-and-play network. IT administrators can finally eliminate stranded storage with 3Gen technology. Preserving investment in staff expertise and capital equipment is easy with 3Gen's virtualized computing solution; data centers can reduce infrastructure costs and administrative support of physical servers and desktops to just one platform.

High Standardization and Security

A loss of a device no longer means a catastrophic data loss because vServer's centralized computing format that provides consistent standards and security across all applications, desktops and servers as well as facilitates remote office support and application rollout.

>>The Next Generation of Business Machines



Product specifications

Hardware

Number of nodes per Fault Tolerance Bundle	Two
CPU	Industry Standard X86 systems with Intel Virtual Technology enabled
Memory	Minimum 8GB
Ethernet ports	Minimum Dual 10Gb ports (dedicated for 3Gen)
RAID	3Gen RAID and LSI / OEM hardware RAID cards
Network cards	Intel, Broadcom and OEM
Storage Interface	Internal : Serial ATA III, SAS and NVMe External: FC, Ethernet Network and SAS JBOD

Client Operating Systems

Operating Systems	Microsoft Windows and Linux
Number of virtual machines per FT system	No limit
Number of CPU core per virtual machine	No limit
Storage capacity per virtual machine	No limit
Number of network ports per virtual machine	No limit

Product Features

3Gen RAID	RAID 0, 1, 5, 6, 10, 50 and 60
Browser based Management Software	Yes
LDAP and Microsoft AD Support	Yes
Online Volume Modification	Yes
SnapBack / SnapQuick	Yes
Instant Volume Cloning	Yes
UPS and Environmental Support	Yes
Dynamic Thin Provisioning	Yes
Block based Synchronous Data Mirroring	Yes
Live Migration	Yes
Email alert	Yes
Automated and Self Learning Error Diagnostic	Yes
Automated and Self Learning System Tuning	Yes
Fault Tolerance Failover	Under 3 seconds
Storage Gateway	Optional
NVMe Caching	Optional

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