



What is Convergence™?

Formerly called ALBS, or the Affinity Linux Backup Server, [Convergence™](#) is a solution for businesses and organizations that increases data availability and integrity while also reducing the total cost of ownership and incorporating a two-fold, automated data backup system.

Translation: Convergence™ provides file sharing capabilities, secure local and off-site backups, and dedicated remote monitoring – all at a fraction of the cost of a traditional file server.

Who is Convergence™ for?

The answer is simple – any business or organization that:

- Shares (or wants to share) files between or among computers,
- Is not currently performing daily local and off-site backups of their information,
- Desires a reliable and dynamic additional backup solution for an existing network,
- Is dissatisfied with the performance and/or stability of their current server solution,
- Requires robust security for the protection of sensitive data, or
- Is looking for a more cost-effective solution.

Why Convergence™?

- Stability
 - Convergence™ is built to provide the greatest possible stability. Understanding that when a server goes down it means lost productivity, our engineering team has made reliability and uptime their #1 priority. By using ClearOS™ Linux, the industry leader in stable server operating systems, “normal” downtime becomes a thing of the past.
 - ClearOS™ is fundamentally based on Red Hat™ Enterprise Linux, the most trusted name in Linux server operating systems. It is also the standard and the benchmark for enterprise grade servers. Major corporations such as Hewlett-Packard™ and Dell™ have chosen Linux as the primary operating system for their flagship servers. In the arenas of cloud computing, web-based applications, and online services, the major players such as IBM™, Amazon.com™, and Google™ have embraced Linux as the platform for their internet presence.

- Cost
 - Convergence™ is part of a service agreement that costs less than most cell phone plans. By combining the cost of purchase, maintenance, repairs, support, and disaster recovery into a single fixed monthly expense, our customers have been able to significantly reduce their ongoing technology costs and have fewer unwanted surprises impacting their operation budgets.
 - Electricity costs money, and servers eat a lot of it. By using state-of-the-art technology from companies such as Intel™ and Western Digital™, Convergence™ has been designed to consume just 1/30th of the power of a traditional file server. This typically results in a savings of over \$600/year*.
- Warranty and Support
 - Every Convergence™ unit is backed by an all-inclusive warranty that covers parts and labor for the entire server – for as long as you remain on a service plan. All services are performed onsite, and replacement parts are always kept in stock. This allows us to provide a same-day response to any problems that you might encounter.
 - Remote management, preemptive repairs, proactive maintenance, and onsite service are all part of our warranty. This is our way of ensuring that using Convergence™ is an experience unlike any other.
- Green
 - During the design stage, making an environmentally friendly product was one of our goals. As a result of these efforts, Convergence™ is extremely energy efficient, Energy Star compliant, RoHS compliant, and lead-free. From its 280W low-wattage power supply unit to its ultra-low voltage Intel™ Atom™ processor**, Convergence™ keeps green in mind.
 - Convergence™ **Green**, one of our mid-grade units, also utilizes GreenPower™ technology, using 30% less power than standard internal hard disk drives along with other energy-saving technologies to lessen impact on the environment.
- Performance
 - With built in Gigabit networking, a dedicated dual-core or quad-core processor, and at least two gigabytes of high-speed file caching RAM, Convergence™ is a machine designed to meet the needs of any customer. By using a highly tuned kernel and a dedicated server Operating System, we have been able to ensure that this hardware is utilized to the max, providing exceptional performance.

- Security
 - Taking advantage of over 20 years of research, Convergence™ employs the industry's most advanced firewall. By regarding all network traffic as "guilty until proven innocent," Convergence™ remains impervious to the probing of malicious entities (both inside your organization, and out). By carefully defining the types of interactions that should be allowed with the server, and denying any other type of interaction, we have ensured that Convergence™ will always be available when you need it, but invisible to everyone else.
 - Convergence™ is built from the ground up to implement the best practices recommended by the National Security Agency. The end result of combining the Linux operating system with these practices is a server that is immune to the common threats of viruses, spyware, key loggers, and other data theft tools.
 - Full disk encryption is implemented for storing all sensitive data, and all data backups. The encryption scheme chosen (AES-256) has been thoroughly reviewed by the National Security Agency, and has been approved by the US Government for use by all agencies to protect classified information up to the Top Secret level.
 - Convergence™ requires that it be presented with a security token before access to the encrypted files is granted. Each unit has a security token consisting of over a million random characters, which are generated by an Intel™ hardware based random number generator. This ensures that each security token is unique and can never be recreated by a malicious entity.
 - Off-site backups are also protected by this same encryption scheme. Using a command-line interface system that securely backs up on a defined schedule, Convergence™ transmits data to Affinity's local advanced backup servers – from which all customer data is securely sent off-site once again to Minnesota and Georgia via our partnership with CrashPlan PRO™, the leading secure online backup service provider in the world.
 - With 2011 security compliance laws severely altering the expectations of responsibility for companies that house sensitive client data (i.e. medical, financial, insurance, etc.), Convergence becomes™ the obvious solution. In the event of even suspected network intrusion, companies are obligated to report these matters to the authorities or face severe civil and even criminal offenses. HIPAA / HITECH requirements for data encryption are satisfied by the on-disk and transmission security methodologies used by Convergence™.

Pricing

Convergence™ is priced based on your requirements. To simplify leasing decisions, there are four standard packages available. If none of these meet your needs, please contact us for a free quote.

Starter - \$79/month

- Ideal for small home-based businesses desiring to have the reliability and peace of mind provided by an affordable server/centralized data solution
- Dual-Core Intel™ Atom™ Processor with Hyper-threading
- **50GB Redundant Storage** including Affinity's [Assurance™](#) Backup System
- 2GB High-Speed DDR3 RAM for File Caching

Black - \$109/month

- The ideal solution for small businesses with an outdated or non-existent server solution
- Designed for enterprise-grade reliability in a 2-10 workstation environment
- Dual-Core Intel™ Atom™ Processor with Hyper-threading
- **100GB Redundant Storage** including Affinity's [Assurance™](#) Backup System
- 2GB High-Speed DDR3 RAM for File Caching

Green - \$129/month

- A robust solution for small businesses with an outdated or non-existent server solution in an environmentally-conscious, 2-10 workstation environment
- Extremely low-wattage CPU and RAM with GreenPower™ 4,500RPM Hard Drives
- Entirely passively-cooled (with exception of Power Supply Unit fan)
- Dual-Core Intel™ Atom™ Processor with Hyper-threading
- **100GB Redundant Storage** including Affinity's [Assurance™](#) Backup System
- 2GB High-Speed DDR3 RAM for File Caching

Platinum - \$159/month

- Designed with commercial primary or secondary server functionality in mind
- Linux ClearOS™ Operating System with Web-Accessible Graphical User Interface (Supports both local and external network accessibility)
- Limited Windows™ Domain Controller/Active Directory Support
- Quad-Core AMD™ Phenom II™ X4 Processor with Hyper-threading
- **150GB Redundant Storage** including Affinity's [Assurance™](#) Backup System
- 4GB High-Speed DDR3 RAM for File Caching

Titanium - \$249/month

- Designed with commercial/industrial primary/secondary server functionality in mind
- Linux ClearOS™ Operating System with Web-Accessible Graphical User Interface (Supports both local and external network accessibility)
- Full Windows™ Domain Controller/Active Directory Support
- Limited Microsoft™ Exchange™ Server Support
- Quad-Core AMD™ Phenom II™ X4 Processor with Hyper-threading
- **250GB Redundant Storage** including Affinity's [Assurance™](#) Backup System
 - 10,000 RPM Western Digital VelociRaptor™ Enterprise-Level Storage for increased access time and reliability ***
- 8GB High-Speed DDR3 Server RAM for File Caching
- 16-port Gigabit Fast Ethernet Switching for dramatically increased file transfer times
- Includes full web-based accessibility portal for remote data retrieval

Adamantium – starting at \$349/month

- Designed with enterprise primary server functionality in mind
- Linux ClearOS™ Operating System with Web-Accessible Graphical User Interface (Supports both local and external network accessibility)
- Full Windows™ Domain Controller/Active Directory Support
- Full Microsoft™ Exchange™ Server Support
- Eight-Core 3.0Ghz AMD™ Opteron™ Processor with Hyper-threading
- **500GB Redundant Storage** including Affinity's [Assurance™](#) Backup System
 - 10,000 RPM Western Digital VelociRaptor™ Enterprise-Level Storage for increased access time and reliability
 - Implements 4 (or more)-Disk RAID-10 Server Array for exceptional reliability
 - Optional Solid State (SSD) Server Array storage for increased speed
- 16GB High-Speed DDR3 Server RAM for File Caching (Maximum 32GB)
- 24-port Gigabit Fast Ethernet Switching for dramatically increased file transfer times
- Optional Redundant Power Supply Units (Auto-Switching)
- Includes full web-based accessibility portal for remote data retrieval

* Based on \$.10/KWhr

** Platinum, Titanium, and Adamantium units do not utilize low-power Intel™ Atom™ processors.

*** 500GB Redundant Storage upgrade available for additional \$35/monthly.

AMD™, Phenom™, Opteron™, ClearOS™, Hewlett-Packard™, Dell™, IBM™, Amazon.com™, Google™, Intel™, Western Digital™, VelociRaptor™, GreenPower™, Atom™, CrashPlan PRO™, and Windows™ are all registered trademarks of their respective companies. Assurance™ is a registered trademark of Affinity Technology Group, LLC.

[Convergence™](#) documentation rev. 2.0. © 2012 [Affinity Technology Group, LLC](#). All rights reserved.

w tech.affinity.tc e support@affinity.tc t (231) 642.0404