

ESCAPE

ALL LIMITATIONS

CISCO UCS E-SERIES SERVERS & UNITRENDS ENTERPRISE BACKUP™

BRINGING DATA CENTER CLASS VIRTUALIZATION-READY BLADE SERVERS AND ENTERPRISE LEVEL BACKUP AND RECOVERY TO THE BRANCH OFFICE.

MISSION CRITICAL SERVERS AND DATA ARE NOT ONLY FOUND IN THE DATA CENTER, THEY ALSO RESIDE IN BRANCH OFFICES. TRADITIONAL BACKUP METHODS OFTEN COME UP SHORT AND DO NOT MEET THE NEEDS OF IT PROFESSIONALS.

*"Unitrends' assistance has brought me peace of mind many times, because **I know I'm in good hands.**"*

*Murugappan Periyakaruppan
Warrior Sports*

*"**Support has been very good** when I needed it. I've been able to get a hold of individuals and they've been able to help me solve my problems in a short order."*

*Chris Howe
Rollins College*



UNITRENDS

UNITRENDS ENTERPRISE BACKUP™ SOLUTION ON CISCO ISR G2 ROUTERS

SUMMARY

The Cisco Unified Computing Systems (UCS) portfolio configured with Unitrends Enterprise Backup™ provides small and medium businesses (SMBs) with the opportunity to maximize their technology investments. Protect heterogeneous data locally on-premise or back up securely to off-premise public or private clouds. The integrated solution provides the most reliable data protection backup solution in the industry in any one of the following cloud deployment models – locally, private, public as well as a mix of offerings.

WHY UNITRENDS AND CISCO?

One solution, One management interface, One line-item in your budget.

Backup and disaster protection for your data, your operating systems, your applications and your hypervisors.

The Cisco Unified Computing System combines industry-standard architecture into a platform that unites computer, network, storage access and virtualization into a cohesive system designed to reduce total cost of ownership (TCO) and increase business agility. The system integrates a low-latency, lossless 10 Gigabit Ethernet unified network fabric with enterprise-class, x86-architecture servers. The system is an integrated, scalable, multi-chassis platform in which all resources participate in a unified management domain.

Unitrends Enterprise Backup™ virtual appliance protects by bridging virtual, physical and cloud. Unitrends has provided next-generation enterprise-class data protection to thousands of customers. Now with Unitrends Enterprise Backup™, we are offering a software-only solution available as a virtual appliance for Microsoft Hyper-V and VMware vSphere that goes beyond virtualization. No longer do you have to learn and manage two or more separate products to protect your virtual and physical infrastructure and extend that data protection to the cloud.

The integrated data protection solution for the backup and recovery needs of SMBs provides the benefits of:

- Capacity-based pricing model that allows data protection regardless of the number of devices being backed up
- Technical deployment around your customer' needs instead of their backup while reducing TCO
- Minimized risk of data loss with optimal resource allocation
- Flexible data protection and recovery strategies
- Ensures security of the backed up information in flight and at rest through AES encryption



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- Replication, archiving and disaster recovery via high-speed interconnects
- Agentless backup ensures low-impact; secure backup and recovery of all data and optimal use of system resources
- Global compression and deduplication across multiple storage devices

Small-Medium Businesses (SMB) are looking to consolidate resources while maximizing their data protection investments. The Cisco 2900/3900 family of routers equipped with a UCS E-Series server module can be configured to work with Unitrends Enterprise Backup™, providing SMBs with a simple, cost-effective and ready-to-use data protection infrastructure, avoiding the need for separate IT investments for backup and recovery. Unitrends Enterprise Backup™ was designed using our patent-pending Simply Scalable technology to excel at the challenges of enterprise-class data protection, forged from the ground up to embrace virtual, physical and cloud-based environments.

THE UNITRENDS ENTERPRISE BACKUP™ SOLUTION

Unitrends Enterprise Backup™ provides the backup ability for SMBs with all the data protection benefits – agent/agentless backup and restore, instant recovery, Adaptive Deduplication, global deduplication and compression, AES-256 encryption and comprehensive support for all leading physical and virtual operating platforms.

In addition, Unitrends provides the ability to do the following:

- Capacity-based licensing – Unitrends provides an unlimited way to protect the virtual and physical heterogeneous environments configured where Cisco UCS is present
- Centralized management – Single pane of glass view
- Migration – Unitrends Enterprise Backup™ allows for migration for similar and dissimilar physical and virtual bare metal to perform P2P, V2P, P2V, and V2V recovery.
- Data Management for Cross Platforms – One management interface via a single management framework. In addition to Cisco certification, Unitrends supports over 100 different operating systems, applications and storage platforms
- Archiving and Replication – The Unitrends and Cisco offering provide a choice of archiving and disaster recovery strategies , including on-premise, disk-based archiving and disaster recovery, tape, NAS or SAN, or off-premise single-tenant private cloud, off-premise multiple tenant public cloud or a combination of both types of disaster recovery strategies.
- Compatible on Cisco ISR G2 modular routers and UCS-E-series blade and UCS-E140



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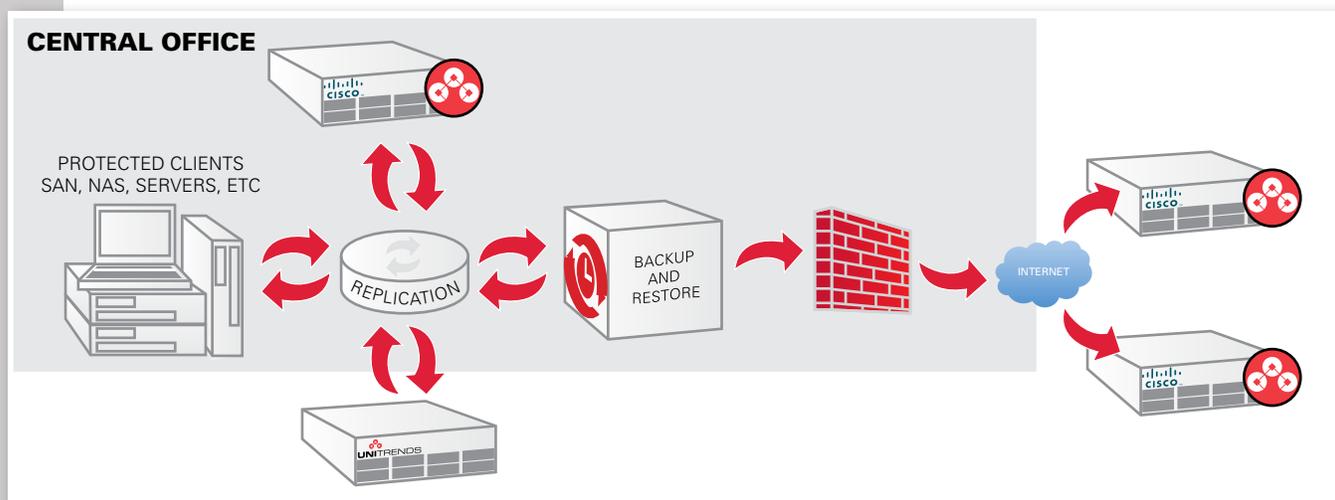
EMBRACING ENHANCED CAPABILITIES OF CISCO UCS WITH UNITRENDS ENTERPRISE BACKUP™

Unifying storage access means that the Cisco Unified Computing System can access storage over Ethernet, Fibre Channel, Fibre Channel over Ethernet (FCoE), and iSCSI, providing customers with choice and investment protection. This connection offering to storage provides Unitrends Enterprise Backup™ the ability to add storage to backup sets as well as reduce the backup window for archiving and retention.

Unitrends provides point-in-time data recovery and speedy restore of failed systems. But data protection strategies require a third component: off-site storage for your protected data and systems for disaster recovery. In addition to centralized distributed resource management offered by Cisco UCS, Unitrends utilizes the 10 GbE high-speed interconnect to allow transferring of data rapidly from within the LAN or site to site. Unitrends leverages the interconnect to maximize replication and archiving optimization.

Maximizing investment while minimizing footprint: Leveraging VMware/ Hyper-V capabilities on Cisco UCS to run UEB minimizes the physical resource footprint in the network closet or data center.

Unitrends compression and deduplication across multiple storage devices: This is met via our advanced storage virtualization and thin provisioning capabilities that are built-in to our virtual appliances. CBT (Change Block Tracking) is supported on both Microsoft and VMware hypervisors to eliminate redundant data as well.



UNITRENDS ENTERPRISE BACKUP™ SOLUTION ON CISCO ISR G2 ROUTERS

THE OFFERING – VIRTUALIZE AND PHYSICAL PROTECTION

Unitrends Enterprise Backup™ configured on Cisco UCS can be configured as a complete backup solution for physical and virtual environments.

Virtual: The Unitrends virtual appliance can be configured to run agentless so that the data protection system identifies the physical system upon which the virtualization hypervisor resides and treats it as a virtual host. In other words, the backup software that protects each virtual machine is typically placed within the hypervisor. Another name for this approach is “virtualization aware”, i.e., the backup software is aware of virtualization and protects one or more virtual machines within the overall virtualization environment. This data can then be archived, protecting the data from a central interface.

Physical: Some configurations require more granular protection. This level of protection means that the data protection system treats the virtual machine exactly as if it were a physical system. In other words, the backup software that protects the virtual machine is typically placed within the virtual machine within the operating system just as it is in a physical environment.

Proponents of GOS-level protection are typically those vendors who only have a GOS-level solution. GOS-level solutions typically offer more granularity than HOS-level solutions but have significant limitations concerning ease of use and automation as virtual environments dynamically grow. GOS-level solutions can also have issues protecting hypervisor-level features such as virtualization-based clustering.

Archiving: Leveraging High Speed interconnect of Cisco to replicate data to remote site

UNIFIED SYSTEM ARCHITECTURE MEETS UNIFIED DATA PROTECTION

Cisco UCS goes beyond convergence by providing a massively scalable, distributed virtual blade chassis with a single, integrated point of connectivity and management.

Unitrends support over 100 versions of servers, storage, operating systems, hypervisors, and applications including NAS, SAN, Windows, Linux, Mac OS X, AIX, Solaris, iSeries, SQL, Exchange, Oracle, VMware, Hyper-V and many others. Optimal data protection for this many different environments has driven a unique data protection architecture that supports agent-based and agentless protection, as well as file- and image-level protection.



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ABOUT UNITRENDS

The trusted provider of all-in-one backup solutions, Unitrends enables its customers to focus on their business instead of backup. The company's family of scalable, all-in-one appliances and software solutions for backup, archiving, instant recovery and disaster recovery protects corporate data, over 100 different versions of servers, operating systems (including Windows, Hyper-V, VMware, Mac OS, Linux, AIX, Solaris and many others), SAN, NAS, hypervisors (including Hyper-V and VMware) and applications (including Exchange, SQL, Oracle and many others). Unitrends is the preferred choice of IT professionals because the company sets the standard in virtual, physical and cloud server data protection with instant recovery that enables complete system recovery in less than five minutes while Unitrends' pricing offers the lowest TCO in the industry. Unitrends' U.S.-based support team boasts a 99% customer satisfaction rate. Visit www.unitrends.com.

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