NITIX™ Autonomic Linux-based Server Operating System

Designed with autonomic computing features -- self-management, self-healing, self-configuring and self-optimizing capabilities -- and leveraging the reliability and performance of Linux®, Nitix™ is a revolutionary server operating system that sets new standards in stability, security, affordability and ease-of-use.

Working with existing environments, or as a complete IT infrastructure replacement, Nitix is easier to manage and use than traditional server operating systems resulting in an affordable and simplified IT infrastructure. Nitix provides a complete business server solution with messaging and collaboration, security-enhanced Internet access and protected data storage. Unique technologies and innovative management tools make it easy to provide secure and reliable IT infrastructure solutions.

Server Roles:

- File and Print Server
- Web Server & Web Caching
- Email Server
- Outlook®-Compatible Groupware
- Web-Based Email, Calendar and Scheduling
- Remote Access Server
- Router/Gateway
- Firewall & Virtual Private Network Server
- Continuous, automated, unattended backup
- Two-Minute Disaster Recovery

- Windows®/Mac®/Linux® Support
- Content-Filtering
- Anti-Spam* and Anti-Virus*
- Directory Services
- FTP Server
- MySQL® Database Server
- LDAP Server
- Domain Name System (DNS)
- Dynamic Host Configuration Protocol (DHCP)
- Redundant Internet Connectivity

*optional

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Benefits of Nitix™ Software Family

Reliability

Nitix is a sub-40 MB operating system that is built on a Linux kernel and incorporates autonomic elements making it extremely stable, reliable and secure.

- Nitix is an autonomic system that "knows itself," understands and has detailed knowledge of its network surroundings.
- Includes self-diagnostic and self-healing capabilities that enable the system to discover problems or potential problems and automatically find a way to fix those problems in order to keep functioning properly.

- Leverages its high availability system design enabling a smooth recovery after the system is abruptly powered down, under any load.
- Can be run from a non-volatile solid-state disk or CD-ROM providing the ultimate in reliability and crash recovery.

Recoverability

Nitix significantly minimizes downtime compared to traditional general purpose operating systems.

- Incorporates unique software features that enable fast and easy recovery from a catastrophic system failure in two minutes or less.
- Integrates an intelligent backup system that provides continuous, automated, unattended backups as often as every 15 minutes ensuring that data is always backed-up.

- Provides the ability to restore individual files and full directories.
- Includes self-healing capabilities enabling the system to recover from routine and extraordinary events that might cause traditional server operating systems to malfunction or crash.

Security

Nitix is a secure server operating system that uses autonomic features to protect itself.

- Incorporates an intelligent software feature that automatically identifies and protects itself against various types of network attacks to maintain overall system security and integrity.
- Integrates a state-of-the-art, auto configuring firewall offering protection from hackers and other intruders.

- Incorporates port-forwarding offering simple and safe access to protected servers behind the firewall.
- Uses auto configuring VPN technology providing a safe and easy way to connect offices to each other via the Internet.
- Nitix can be run from read-only media, preventing contamination of the operating system making it ultra secure.

Productivity

Nitix provides tools that simplify deployment, management and administration, and maximize productivity.

- Leverages autonomic features that simplify deployment and maintenance functions allowing technology providers to set up, run and maintain your networks productively and efficiently.
- Incorporates self configuring and reconfiguring capabilities under varying and even unpredictable conditions ensuring that the system is always configured properly reducing nuisance misconfiguration problems.

- Helps you manage your network proactively by automating tasks and simplifying updates.
- Incorporates tools for technology providers allowing them to manage and troubleshoot from anywhere in the world making IT management extremely cost effective and allowing for very quick response times in the event of a problem.

Connectivity

Nitix provides an extensible platform for quickly building solutions that keep employees, partners, systems and customers connected.

- Provides an integrated web server that helps you quickly, easily and securely create dynamic intranet and Internet web sites.
- Delivers a safe and easy way to connect offices to each other employing the Internet as a connection medium.

- Enables Windows or Macintosh® users to securely connect to their network from anywhere on the Internet.
- Redundant Internet connectivity feature increases reliability and improves overall throughput of Internet connections.

Affordability

When compared to similar, traditional server operating systems, Nitix provides unique features and technologies that help you get the greatest return on your infrastructure investments.

- When compared to traditional solutions, Nitix offers reduced product licensing, ongoing support and administration costs providing significant overall IT savings.
- Nitix provides the flexibility to expand or consolidate servers by offering customizable multi-purpose functionality.

- Lowers your total cost of ownership (TCO) to realize a fast return on investment.
- Nitix's efficient design allows it to be used on older computers increasing server hardware life cycle and giving you a longer return on hardware investments.

Nitix™ Core Technologies and Services

Nitix contains core technologies and services that incorporate autonomic functionality and build on the strengths of Linux to deliver a superior and cost-effective server operating system.

ExchangeIt! Groupware

ExchangeIt! is a Microsoft® Outlook and Ximian® Evolution™-compatible alternative solution to the key collaboration services provided by Microsoft Exchange Sever. Integrated into the Nitix operating system, ExchangeIt! leverages Nitix's NetIntelligence, idb and SystemER technologies making it an extremely reliable, secure and recoverable groupware solution.

NetIntelligence automatic network discovery

NetIntelligence allows Nitix to intelligently discover the network world around it and configure itself automatically.

Non-volatile solid state disk or CD

Providing the ultimate in reliability and crash recovery, the Nitix operating system and configuration files can be stored on a non-volatile solid-state disk or CD-ROM. In the event of a hard disk failure, the solid-state disk or CD-ROM allows the system to continue to operate as a LAN-to-Internet and firewall device. System recovery is simply a matter of installing a new hard disk and initiating the recovery sequence; the system automatically restores itself to normal operating state.

SystemER - 2 minute disaster recovery system

SystemER (Emergency Recovery) is an innovative recovery system unique to Nitix that enables fast and easy recovery from a catastrophic system failure -- from total hard disk to motherboard or CPU failures -- in just 2 minutes.

Advanced journaling file system

The journaling file system is faster and much more robust than standard file systems and features superior crash resistance enabling incredibly fast re-mounting of the file system after improper shutdown, as in the case of a power failure.

File Services

High performance cross-platform file services for Windows and Macintosh clients.

Integrated backup system

Nitix is the only server operating system in its class that supports an integrated backup system. Intelligent Disk Backup (idb) features continuous micro-backups as often as every 15 minutes and automatic backup management, making backups and recovery reliable and easy.

WWW-services

Nitix's integrated Apache® web server makes it easy to host reliable, high-performance websites. Virtual servers, CGI scripts, Perl 5.0, PHP and SSL are also supported. Nitix is equipped with an auto-configuring WWW proxy cache server that significantly improves client-browsing response, while maximizing Internet bandwidth utilization.

Email services

Nitix's advanced email server provides POP3 and IMAP mailboxes for users and supports mail forwarding, vacation auto reply and automatic email retrieval using IMAP or POP3 over SSL. The WebMail capability allows users to access their emails, calendars and address books using the Internet.

Firewall

Nitix's state-of-the-art auto configuring firewall offers protection from hackers and other intruders, and is ICSA firewall security certification compliant. The firewall executes stateful inspections of all incoming IP packets and performs network and port address translation thereby hiding the internal network from the Internet.

MySQL server

The integrated, auto configuring MySQL database server provides a database management system with superior speed, compactness and stability and is easily accessible through a web-based interface.

FTP server

The integrated high performance FTP server offers an easy way to provide high volume file downloads.

Dynamic DNS (DDNS)

DDNS eliminates the need for expensive and often hard-to-obtain static IP addresses. This feature allows mail, web sites and FTP services to be hosted on any Nitix-powered server connected to an inexpensive dynamically addressed DSL or cable Internet line.

DHCP & DNS servers

The auto-configuring DHCP server assigns IP addresses to all users on the internal LAN, while the integrated auto-configuring DNS server takes care of Internet name resolution.

Remote deployment analog dial-in support

Analog dial-in support provides the ultimate in remote deployment and management.

Software RAID Technology

For increased data storage capacity and additional redundancy, Nitix Premium Edition supports RAID 1 (mirroring) or RAID 5 (multi-disk array) with idb backup. Nitix's Software RAID Technology allows you complete read and write access to the server during a RAID-rebuild.   *Available only with Nitix PE*

Positive Web Filtering

Positive Web Filtering allows administrators to restrict web access to only a few select web sites and allow full Internet access from specific workstations.

TunnelVision VPN

Employing the Internet as a connection medium, the TunnelVision Virtual Private Network solution delivers a safe and easy way to connect offices to each other. Data is secured in transit using the 128 bit Blowfish encryption algorithm or using standard IPsec.

Remote Access Services (RAS)

Using Point-to-Point Tunneling Protocol (PPTP), users can securely connect to their network from anywhere on the Internet. PPTP support is built into all Microsoft Windows clients and third party PPTP is available for Macintosh clients.

DoubleVision high reliability Internet connectivity

DoubleVision enables the combination of two or more separate Internet links from different Internet Service Providers (ISPs) to be connected to one Nitix-powered server providing an effective increase in available Internet bandwidth as all HTTP Internet traffic is intelligently spanned across both links.

Remote user management tools

For more powerful remote desktop management, Nitix presents a new screen from the main menu that displays a list of current active users, and offers remote access to their workstations.

LDAP server

All Nitix users are automatically listed on a built-in LDAP server (Lightweight Directory Access Protocol) for providing address book feature to email client.

Anti-Virus* and Anti-Spam*

Nitix AntiVirus and Nitix AntiSpam software protect your Nitix network and email from viruses and spam.   *Optional*

What's in the Nitix Software Family

Product	Description
Nitix SmallBusiness	Nitix SmallBusiness provides a complete business server solution for small to medium sized businesses. *SmallBusiness includes:* • Nitix SmallBusiness with 5 Nitix Plus CALs • ExchangeIt! Server • Support for up to two disk drives • Support for Intelligent Disk Backup (idb)
Nitix Standard	Nitix Standard Edition provides the same complete business server solution for small to medium sized businesses as SmallBusiness, along with an additional 15 Nitix Plus Client Access Licenses (CALs). *Standard Edition includes:* • Nitix Standard Edition with 20 Nitix Plus CALs • ExchangeIt! Server • Support for up to two disk drives • Support for Intelligent Disk Backup (idb)
Nitix Premium	Nitix Premium Edition provides the same complete business server solution for small to medium sized businesses as Nitix Standard Edition, with the added advantages of support for Nitix's Software RAID Technology and an additional 20 Nitix Plus Client Access Licenses (CALs). *Premium Edition includes:* • Nitix Premium Edition with 45 Nitix Plus CALs • ExchangeIt! Server • Multiple drive support • Support for Intelligent Disk Backup (idb) • Nitix Software RAID Technology
ExchangeIt! (included)	ExchangeIt! server is an affordable, reliable and easy-to-maintain alternative solution to the key collaboration services provided by Microsoft Exchange Server. Included in the Nitix operating system, ExchangeIt! is a collaboration server solution and client software product that works seamlessly with Microsoft Outlook, Ximian Evolution or Web front end to provide such features as: • Group scheduling • Shared calendars • Shared contact lists • Shared task lists
Nitix AntiVirus (optional)	Utilizing the award-winning Kaspersky® antivirus engine, and designed specifically for the Nitix server operating system, Nitix AntiVirus protects both your network and email from viruses, worms, email worms, Trojans and other malicious programs that could seriously harm your network.
Nitix AntiSpam (optional)	Utilizing the award-winning Vircom® anti-spam engine, and designed specifically for the Nitix server operating system, Nitix AntiSpam quickly, easily and reliably stops spam from polluting your Inbox.

About Net Integration Technologies Inc.

Net Integration Technologies Inc. (NITI) is a software developer that delivers autonomic, Linux-based server operating system (OS) solutions to the SMB market. The company's revolutionary Nitix server OS sets new standards in stability, security, affordability and ease-of-use for small to mid-sized businesses. Nitix-powered servers have earned the company numerous awards and rave reviews from notable publications like PC Magazine, CRN, eWeek and InfoWorld. Established in 1997, the company has built a worldwide Approved Partnership Program with over 1,700 reselling partners. NITI is headquartered in Markham, Canada with additional offices in Montreal, the United States and Europe. For more information about Net Integration Technologies, please visit www.nitix.com.

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