

What's New on the NetWare® Kernel of Novell® Open Enterprise Server

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Novell®

For more than 20 years, Novell® has provided reliable, enterprise-class networking services through the award-winning NetWare® platform. Now, for the first time, Novell Open Enterprise Server delivers these trusted services on your choice of NetWare or SUSE® LINUX Enterprise Server, the leading open platform for business applications. With Novell Open Enterprise Server, you can deploy the platform mix that best meets your organization's needs.

The choice is up to you: continue to run these services on the trusted NetWare platform, deploy them on SUSE LINUX Enterprise Server 9 or combine the two platforms in a way that works for you.

With the introduction of SUSE LINUX Enterprise Server, customers not only have a platform to meet their networking infrastructure needs of a distributed environment, but they also now have a platform for deploying enterprise-level applications. However, for many, NetWare may still be the preferred choice for file, print and networking services. Novell has devoted significant resources to enhance NetWare and to add additional functionality that customers are looking for. The following is a list of the new features and enhancements that will be added to Novell Open Enterprise Server for the NetWare platform:

Platform Enhancements	
Updated Web and Application Components	<ul style="list-style-type: none"> • Apache 2.0.50 • JVM 1.4.2_6 • Tomcat 4.1.31 • MySQL* 4.0.21 • PHP 5 • exteNd™ Application Server 5.2.1
Updated Hardware Support	<ul style="list-style-type: none"> • PCI-X • MSI • ACPI 2.0
BASH Support	Enables common script-based management for the entire enterprise (Linux*, Unix* and now NetWare).
Novell ZENworks® Management Daemon (ZMD) and Novell ZENworks Linux Management (ZLM)	Enable common management of patches and updates for both NetWare and Linux.
CIM (Common Information Model—Standard Data Definition for Describing a Managed Environment) Support	Uniformly describes network and systems management data in a common way and provides an access methodology independent of the data's source.
Python-Based Update Agent	Allows for common scriptable updates for both NetWare and Linux.
USB Device Support	Enables support for latest USB mouse, keyboard and mass-storage devices (hard drive, jump drive, memory card readers, etc.), including debug-time enumeration for use with core-dump utilities.

NXBit Support	Supports processors running NXbit technology, implemented automatically when NXbit-enabled hardware is detected.
Scrollable Console Screen	Scrolls to view history, similarly to the logger screen.
Suppressing-Unwanted-Console Screen	Hides extraneous console screens without unloading the associated module.
Core Dump Partition	Sets up (in addition to the DOS partition) storage space on the server's local NetWare (NSS) volume for core dumps.
Vi Improved (VIM) Support	Based on the standard UNIX editor, replaces or supplements the traditional NetWare editor.
Novell Storage Services Enhancements	
CIFS Migrated Files	Shows files that have been migrated using third-party Hierarchical Storage Management (HSM) solutions as migrated on Windows* native clients (CIFS protocol).
Apple Macintosh* Enhancements	Supports case-insensitive long file names for Macintosh OS X clients.
NFS Server	Includes a number of enhancements for Native File Access for Unix/Linux: <ul style="list-style-type: none"> • Improved iManager management: <ul style="list-style-type: none"> ○ Change NIS user passwords ○ Update slave servers ○ Choose advanced migration options • Improved performance in the NetWare mode Added YPPASSWORD.NLM, a new server-side utility for changing user NIS passwords.
FTP Server	Includes a number of enhancements: <ul style="list-style-type: none"> • FTP stats available only over SSL; port 2500 no longer available • New configuration parameter Pseudo_server_flag introduced • UNIX rights replies option simulated • iManager management enhanced when managing FTP server instances
Linux and NetWare Volume Interoperability	Moves NSS volumes on Linux and NetWare freely between platforms.

Archive and Versioning Server	Offers improved performance and scalability.
Partition Management	Offers management through Novell iManager.
Novell iManager Remote Management	Provides broader protocol support for ensured remote Novell iManager server to target server management.
NetStorage Enhancements	
POSIX ACL File System Rights Management	Manages POSIX file system rights—in addition to Novell trustee file rights—through NetStorage.
Bulk Operations	Adds or removes multiple files with one action.
Move Files and Directories	Simplifies moving process.
Salvage	Salvages previously deleted files.
Modify rights	Updates rights beyond the Novell iManager process and command-line tools of the past.
Cluster Services Enhancement	
Mixed Clusters	Lets NetWare and Linux nodes coexist in the same cluster.
BASH Scripts	Lets cluster resource load and unload scripts be BASH scripts.
iPrint Enhancements	
Linux/Macintosh/Windows Clients	Offers full compatibility with existing and Novell Open Enterprise Server (NetWare and SUSE LINUX Enterprise Server) backends.
Pre-set Printer Driver Defaults	Allows administrators to set up profiles from which users can select how to tailor their drivers at the time they install a printer. (This is referred to in UI and documentation as Printer Profiles.)
DNS Printer Name Support	Limits changes to happening on DNS only (not iPrint's configuration) when a printer's IP address changes.
Auditing	Tracks usage (denial of printing not yet available).
Printer Consolidation	Integrates with Server Consolidation Utility.
QMS-based Printing to iPrint Migration	Allows administrators to set up iPrint and remotely migrate client-installed printers to iPrint.

NDPS to iPrint Migration	Lets administrators allow clients to migrate installed printers from NDPS to iPrint.
iPrint Tray Icon	Sets up iPrint tray icon's appearance upon iPrint client installation; also allows users to manage printers, jobs, settings and more.
Custom Banner Pages	Lets administrators select what data will appear on the banner page and where the text appears.
Management Enhancements	
CIM Instrumentation and Health Monitoring	Includes an iManager plug-in for monitoring the health of various network services using CIM; lets help-desk personnel and IT administrators easily monitor multiple Novell Open Enterprise Servers quickly and easily from any Web browser.
Novell iManager 2.5 Performance Enhancements	Dramatically decreases load times from two to three minutes to 10 to 15 seconds.
Customization of SDebug Account	Customizes (through Novell Remote Manager) the SDebug account to add or remove specific capabilities according to your needs.
Nested Server Groups	Enhances NRM Server Group functionality to allow nested groups with associated maps or floor plans.
Additional Browser Support	Supports Mozilla* and Epiphany Web browsers.
Installation and Migration Enhancement	
Server Consolidation	Enables customers to migrate directly from NT to Linux; moves users, groups and data and preserves file rights and usage quotas.
RPM Package Update Support	Applies updates to NetWare via the Open Standard RPM (Red Hat* Package Manager) to provide a consistent update mechanism for both NetWare and Linux servers.
RCD Support	Automates updates delivered to NetWare and installs them using the ZENworks Red Carpet® Daemon.
Improved "Silent Install" Support	Performs silent local and remote upgrades.
Support for Active Directory Migrations	Migrates users, groups and files from Windows servers running Active Directory* to Novell Open Enterprise Server.

Response File Generator and Automated Upgrades	Creates files for silent local and remote upgrades.																										
Schema Prep Tool	Simplifies upgrades by allowing an administrator to prepare a Novell eDirectory™ tree by installing the schema extensions prior to installing the software that needs the extensions.																										
Other Enhancements																											
Directory Synchronization of Legacy NDS® Directories with Novell eDirectory, NT Domains and Active Directory	Adds to current support for synchronizing among Novell eDirectory, NT Domains and Active Directory by synchronizing legacy NDS directories with them; includes support for NDS versions 6.0 to 6.17 and 7.0 to 7.60c.																										
Logging Enhancements	Improves logging capabilities (file, file directories and Novell eDirectory).																										
Cluster Enablement	<table> <tr> <td>CIFS</td> <td>(active/passive and active/active)</td> </tr> <tr> <td>NFS</td> <td>(active/passive and active/active)</td> </tr> <tr> <td>FTP</td> <td>(active/passive and active/active)</td> </tr> <tr> <td>AFP</td> <td>(active/passive and active/active)</td> </tr> <tr> <td>LDAP</td> <td>(active/passive and active/active)</td> </tr> <tr> <td>NetStorage</td> <td>(active/passive)</td> </tr> <tr> <td>MySQL</td> <td>(active/passive)</td> </tr> <tr> <td>Apache</td> <td>(active/passive)</td> </tr> <tr> <td>Novell iFolder®</td> <td>(active/passive)</td> </tr> <tr> <td>iPrint</td> <td>(active/passive)</td> </tr> <tr> <td>Virtual Office</td> <td>(active/passive)</td> </tr> <tr> <td>DHCP</td> <td>(active/passive)</td> </tr> <tr> <td>DNS</td> <td>(active/passive)</td> </tr> </table>	CIFS	(active/passive and active/active)	NFS	(active/passive and active/active)	FTP	(active/passive and active/active)	AFP	(active/passive and active/active)	LDAP	(active/passive and active/active)	NetStorage	(active/passive)	MySQL	(active/passive)	Apache	(active/passive)	Novell iFolder®	(active/passive)	iPrint	(active/passive)	Virtual Office	(active/passive)	DHCP	(active/passive)	DNS	(active/passive)
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With Novell Open Enterprise Server, you have the choice to deploy advanced networking services on NetWare, SUSE LINUX Enterprise Server or a composite of the two. You can deploy these services with confidence, knowing that Novell stands ready to help with our hundreds of software engineers, support staff and consultants dedicated to assisting our customers and ensuring their success.

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