

Gain eBusiness **success** with
enterprise-wide Net integration



Directory Services

Novell®

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GAIN eBUSINESS SUCCESS WITH ENTERPRISE-WIDE NET INTEGRATION

In today's fast-moving world of eBusiness, companies need solutions for transcending network boundaries. While IT organizations struggle to simplify internal network environments, they also need technology that can integrate with legacy applications and serve thousands of new users. And the entire network infrastructure needs to expand across best-of-breed server environments as well as intranets, extranets and the Internet.

With Novell® Directory Services®, you now have a mixed-platform solution for managing your entire business, both inside and outside the firewall. Novell Directory Services give you the power and scalability of a single directory service to securely extend the reach of applications—to customers, suppliers, business partners and employees.

THE ROLE OF DIRECTORIES IN eBUSINESS

As companies move into the Net economy, directories are becoming as important to the enterprise infrastructure as TCP/IP—providing the foundation for a new generation of applications, systems and services.

An enterprise directory can help companies reduce costs in the short term, while building a strong foundation for long-term eBusiness growth. A directory enables IT managers to create clear relationships between basic user administration and policies for security, network and systems management, allowing them to manage the whole Net environment.

As the cornerstone of your network, your directory must work across multiple platforms, provide service over distributed

locations and support open standards for integrating with other directories and applications. And it must have the scalability and reliability to support all of your customers and partners—now and for many years to come.

PROVEN DIRECTORY TECHNOLOGY

Novell Directory Services combine the power of proven technology with a foundation for future eBusiness growth. Novell Directory Services (NDS®) launched as the first enterprise directory in 1993. Now, used by more than 50 million users worldwide, NDS ensures reliability, security and stability for your eBusiness applications.

NDS gives you a single point of administration, strong security and mixed-platform support for user account management. Plus, support for open standards—like lightweight directory access protocol (LDAP) and extensible markup language (XML)—means that you can use NDS for enterprise-wide integration of other vendors' applications and directories.

This NDS momentum is driving computing into a new era based on the directory. Internet service providers (ISPs), software developers and other companies that compete aggressively in the Net economy have made NDS their directory of choice, including AltaVista, BroadVision, Business Layers, CNN, Gadzoox Networks, Lucent Technologies, Oblix, PeopleSoft, Red Hat, Sun Microsystems and Xircom. And now you can add your company to the list.

BUSINESS BENEFITS OF NDS eDIRECTORY

Novell Directory Services deliver the most scalable, platform-independent LDAP directory for easily building secure eBusiness solutions.

The core of Novell Directory Services is NDS eDirectory™—version 8 of NDS, which now includes native support for LDAP and LDAP data interchange format (LDIF), a file format for importing and exporting directory content. By supporting these directory standards, NDS eDirectory guarantees compatibility with other LDAP-based applications. Plus, your eBusiness applications get the inherent scalability, manageability and security of the NDS eDirectory platform.

GROW YOUR eBUSINESS RELATIONSHIPS

With NDS eDirectory, you have a strong foundation for establishing and nurturing eBusiness relationships with personalized Web sites, supply-chain management, automated business processes and more. Your directory-enabled applications can capture and store personalized profiles on every user who interacts with your eBusiness. You can use this information to tailor your customers' business experiences—such as what they see on a Web page—to cultivate loyalty to your company.

ENJOY MASSIVE SCALABILITY AND HIGH PERFORMANCE

NDS eDirectory has proven its ability to manage more than a billion objects—such as users, applications, network devices and data—on a single server without any performance degradation. When extended across multiple

servers, this virtually unlimited capacity allows you to enjoy unrestricted eBusiness growth. Plus, you can partition NDS eDirectory into manageable segments that can be distributed and replicated across your network. As a result, server failures, server maintenance or temporary communications disruptions do not interfere with your eBusiness processes.

KEEP NETWORK RESOURCES SECURE

The superior security capabilities of NDS eDirectory enable you to centrally manage access and policies across your entire network, both inside and outside the firewall. Public key infrastructure (PKI), cryptography and authentication services are tightly integrated with NDS eDirectory. And your eBusiness applications can authenticate users in a number of Internet-standard ways—including passwords encrypted over secure sockets layer (SSL), RSA* private-key/public-key encryption, secure authentication services, smart cards and X.509 certificates.

PROTECT YOUR TECHNOLOGY INVESTMENT

With NDS eDirectory, you get a global directory solution that integrates all of your networking platforms—NetWare®, Windows NT*, Linux* and UNIX*—into one Net. And by supporting open Internet standards, NDS eDirectory allows you to easily integrate applications with the directory. For example, native support for LDAPv3 means that any application written to use LDAP is already an NDS application—without modification. Plus, NDS eDirectory includes a friendly development environment.

SYNCHRONIZING DISPARATE DIRECTORIES WITH DIRXML

In today's network environments, IT professionals face the growing challenges of deploying eBusiness applications, while still maintaining legacy applications. Keeping these disconnected applications accurate and up-to-date requires making the same changes multiple times. With DirXML™, you can now manage enterprise data intelligently. Administrators can make a change once and have that change automatically reflected across the entire organization.

DirXML uses XML as the common language for passing data between different applications, whether they use a proprietary data format or open standards. This means that you can easily integrate legacy applications with your eBusiness solutions. Once the data is represented in XML, you can move it across different security domains and expose it to trusted customers, partners and suppliers.

DirXML acts as the interface between the applications and NDS eDirectory, providing the means for synchronizing the data through replication. The data flow is controlled by specific filters in NDS eDirectory, and replication occurs as a two-way sharing of data or just as one-way information publishing. DirXML enables eBusiness growth by helping you maximize your applications and directory information.

AUTHENTICATING USERS WITH SINGLE SIGN-ON

Administrators spend up to 70 percent of their time resolving user password problems. With Novell's single sign-on solutions, you can reduce your administrators' password-related tasks while increasing your end users' productivity.

Novell Single Sign-on Bundle gives users access to all network resources—including applications—with a single password. After users authenticate to NDS eDirectory, Single Sign-on

uses background authentication to identify them to other applications they need. Application passwords and other authentication credentials—also known as “secrets”—are encrypted and stored in NDS eDirectory. And only individual users can add, modify, view or delete their own secrets.

A complementary single sign-on solution, NDS Authentication Services extends user authentication across many additional platforms, including AIX*, FreeBSD, HP-UX*, Linux, OS/390* and Solaris*. It enables users running on these platforms to access network resources with a single password.

Together, these single sign-on solutions eliminate the need for multiple user passwords, reduce password-related help desk calls and alleviate password administration tasks. Users can also access resources and get the appropriate service from any network location.

DEPLOYING EXTRANET SOLUTIONS WITH ICHAIN

To succeed in the Net economy, your entire organization must dynamically respond to customer and partner demands at Internet speed. iChain™ is your all-in-one platform for providing secure, Internet-standard solutions for:

- **B2B MANAGEMENT**—iChain allows you to rapidly deploy large-scale extranets, while enabling personalized Web services delivery. Using NDS eDirectory, you control the user's access level to your protected eBusiness resources—whether those users are customers, suppliers, business partners or employees. Suppliers can view current inventories and automatically fill orders for parts as needed. Customers and business partners can access personalized Web sites that match their interests, while employees can access corporate information. This leads to improved customer retention and loyalty—a competitive advantage for your business.

- **COMMUNITIES**—iChain also lets you deploy digital communities or groupings of people or services around a Web site. These communities can include common Internet services, such as bulletin boards, threaded discussions and customized interfaces. With communities, you improve customer relations and increase customer mindshare.
- **eCOMMERCE APPLICATION INTEGRATION**—iChain allows you to create a Web storefront for conducting commerce transactions, such as software leasing. You can extend fee-based goods and services to users based on their authorization and use commerce applications like Novell OnDemand™, integrate third-party solutions or create custom applications using the iChain API to directory-enable your applications.

MANAGING YOUR ENTERPRISE WITH NDS CORPORATE EDITION

For IT professionals working in most enterprise environments, it's a mixed-platform world filled with a wide range of technologies and solutions, such as NetWare file services, Windows NT workstations and UNIX Web servers. With NDS Corporate Edition, you have a robust solution for creating a seamless, unified network from best-of-breed, mixed-platform systems.

NDS Corporate Edition allows you to manage multiple accounts across your entire network from a single point of administration and provide a single login for end users. You can now manage user accounts, profiles, preferences and security credentials, such as passwords and digital certificates—all from a central location. Users need to remember only one user name and password for accessing any resource on your network.

NDS Corporate Edition integrates Windows NT, Sun* Solaris and Linux user management functions into NDS eDirectory. When users or applications attempt authentication against these

individual servers, NDS Corporate Edition transparently redirects the request to an NDS server. Thus, existing applications continue working without modifications. And you get a competitive advantage with efficient management of all corporate resources.

RETRIEVING DIRECTORY DATA WITH eGUIDE

Directory searches are no longer tied to platform compatibility or client installation. Now, employees, customers and partners can all gather the information they need securely, quickly and efficiently—with eGuide.

eGuide is a Web-based, platform-independent address book that lets you search for user information in any LDAP-enabled directory, whether it's NDS eDirectory, Microsoft Active Directory*, Web directories like Netscape* or partner/supplier personnel directories.

eGuide looks and works much like the address book found in most standard e-mail applications. After you find contact information, you have one-click access to e-mail, instant messaging and video conferencing.

GET THE COMPETITIVE EDGE

With its broad range of directory products, Novell Directory Services deliver the best solution for enterprise-wide Net integration. Based on proven technology, NDS eDirectory is the industry's only full-service directory that provides a robust, scalable foundation for building secure eBusiness relationships. You can now extend the reach of your existing infrastructure to customers, partners and employees. And with support for more open Internet standards than any other directory, NDS eDirectory can easily interoperate with your existing technology investments and new directory-enabled applications—allowing your organization to meet the demands of the Net economy.

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