By the time you read this article, DirXML 1.1 will be days away from availability, if it’s not available already. Like its predecessor, DirXML 1.1 enables you to synchronize data between Novell eDirectory and other network directories based on your company’s business rules and workflow policies. (To see how other companies are using DirXML, see “Novell Products in Action.” For more information about DirXML, see “Too Many Directories? Synch ’Em With DirXML,” Novell Connection, May 2000, pp. 8–14. You can download this article from www.ncmag.com/past.)

DirXML 1.1 features several enhancements that enable you to do the following:

• Run eDirectory and the DirXML engine on one server, an application on another server, and the application’s DirXML driver on yet another server.
• Log errors and warnings according to where they occur in the DirXML data-sharing process.
• Create filters that are defined in both eXtensible Markup Language (XML) and eXtensible Stylesheet Language Transformations (XSLT). (XML and XSLT are World Wide Web Consortium [WC3] standards that describe how to create and change XML documents, respectively. For more information, visit www.w3.org/XML/1999/XML-in-10-points.)
• Define exceptions to e-business rules automated through DirXML.

REMOTE LOADER FOR MORE FLEXIBILITY

DirXML 1.1 includes a new feature called the remote loader. The remote loader is agent software that enables communications between the DirXML engine and an application’s DirXML driver that is running on another computer. These communications occur over a Secure Sockets Layer (SSL) connection, but to the DirXML engine, communications with the remote application driver appear to be local.

The remote loader offers several advantages, not the least of which is the flexibility to host applications and their drivers wherever you want. For example, suppose you are using DirXML to synchronize information between eDirectory and several other directories and databases on your company’s network. Further suppose that you’d like to add your company’s human resource management (HRM) application to this DirXML-controlled metadirectory. However, this application’s API set (with which DirXML drivers communicate) does not support remote access.

If you were using DirXML 1.0, you would have to run your HRM application, its DirXML driver, the DirXML engine, and your company’s eDirectory tree all on the same server. In contrast, if you were to use DirXML 1.1, you could run the DirXML engine and the eDirectory tree on one server, your HRM application on another server, and the HRM application’s DirXML driver on yet another server.

In addition, these servers’ platforms don’t have to be the same. You could run the HRM application and its driver on Windows 2000 servers (perhaps the only platform on which this HRM application could run), but you might run the DirXML engine and your eDirectory tree on a Solaris server.

Among other things, this ability to run applications and drivers on any server you choose essentially extends eDirectory’s platform support. For example, with the DirXML 1.1 remote loader, you can synchronize applications running on OS/390 or Macintosh operating systems with eDirectory, despite the fact that eDirectory does not support these platforms. The remote loader, in other words, renders DirXML 1.1 essentially platform blind.

PER-FUNCTION ERROR LOGGING SAVES TIME

DirXML 1.1 enables you to log errors based on where in the process these errors may be occurring. Using DirXML 1.0, you have to search an aggregate error log and figure out for yourself where errors are occurring. DirXML 1.1 also logs errors according to where the errors occur—namely in the subscriber channel, the publisher channel, or the driver set. Basically, this new per-function logging feature saves you some time, enabling you to efficiently spot error trends, hone in on their causes, and identify solutions.
Novell Products in Action

Finding out about the new features a product offers is great, but you probably also want to know which companies are using the product and how they are using it. The following explains, in a nutshell, how one company is using DirXML in conjunction with Novell eDirectory and ZENworks for Desktops. (DirXML is also used as part of Novell's eProvisioning Solution Framework. See the related article on p. 6.)

THE CLIENT
Allina Health System, a not-for-profit medical services provider

THE PROBLEM
Allina Health System needed to unify its various independent networks located throughout clinics, hospitals, and administration offices. The resulting unified network needed to provide cross-platform functionality, centralized management capabilities, and tight security.

THE TOOLS
- Novell eDirectory
- DirXML
- ZEN works for Desktops

THE SOLUTION

The Allina Health System network is built on NetWare and Windows NT. To unify the separate directories of these two systems, Allina Health System turned to eDirectory and DirXML. By using DirXML, Allina Health System was able to unify directory information across eDirectory and Active Directory.

In addition, Allina Health System uses ZENworks for Desktops to streamline the installation, management, and support of more than 1,000 application profiles. As a result, help-desk calls have decreased by 50 percent. The number of PCs has grown by 57 percent—from 7,000 to 11,000 PCs—without requiring additional support staff.

THE RESPONSE

"Novell products offer the security, stability, and cross-platform management capability we must have to be successful in meeting our mission. With eDirectory, we have been able to build a directory that runs on any platform," says David Lind, Allina Health System director of information services.

More Good News About Drivers

In addition to its new features, DirXML 1.1 ships with two new drivers, one for NT Domains and one for Delimited Text. DirXML 1.1 includes matching licenses for eDirectory and the NT Domains and Delimited Text drivers and for other drivers that ship with the product. Other shipping drivers include the following: eDirectory, Active Directory, Exchange, Lotus Notes, and LDAP-enabled directories.

On a related note, this past August, Novell released a new DirXML driver for PeopleSoft, which enables connectivity with the PeopleSoft 8.1 platform, as well as PeopleSoft 7.5 and 7.0. This driver works with any of the PeopleSoft modules, including its Finance and Education modules and its Human Resource module.

For more information about DirXML 1.1 and the new DirXML PeopleSoft driver, visit Novell's web site (www.novell.com/products/nds/dirxml).