

TODAY'S NIAKWA NEWS

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COMMUNITY NEWS AND INFORMATION

JULY 1999

THE NPL ROADMAP

In October of last year, we presented you with the NPL Roadmap, an open letter from Alan Green outlining the direction that Niakwa intends to take NPL in the short and midterm. As Alan stated, "Niakwa's mission is to take the trends we have identified and couple them with a fast-moving plan to develop and distribute solutions that address them. We want to deliver frequent releases, each consisting of a set of tactical components targeted to give you access to trend technology.

"To accomplish this we will be guided by the NPL Roadmap, Niakwa's plan for product development and deployment."

And that's exactly what we have been doing. NPL V was released in August, 1998. NPL 5.01 is slated for final release by the end of June, 1999. And, NPL 5.1 is about to enter its Beta cycle. Meanwhile, we are nearing the start of our development work on NPL 5.2, and have intensive research currently underway on the future NPL VI (but that's for another time).

In this newsletter we highlight most of the significant components of NPL 5.01 and NPL 5.1. Following is a snapshot view of these two upcoming releases and where the enhancements fit into our four major language components. We will be posting a more complete view of the NPL Roadmap summary to our web site soon.

NPL 5.01 - Late Second Quarter 1999

NPL	Data Manager	Interface Manager	RunTime
SCO UNIX	OpenNDM for TCP/IP		SCO UNIX
SCO UNIX IDE	SCO UNIX IDE		Preliminary Support for Novell NetWare 5.0

NPL 5.1 - Estimated 1999

NPL	Data Manager	Interface Manager	RunTime
Workbench Debugger	Open NDM for SQL	Online Documentation	Windows NT Network Enhancements (IP Only)
Context Sensitive Help	Open NDM Visual Utilities		Novell Network Enhancements (IP Only)
Online Statements Manual	Online Open NDM Doc.		

TODAY'S NIAKWA NEWS

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Comments, questions and suggestions are welcome and can be directed to the Editor, Today's Niakwa News, Niakwa.

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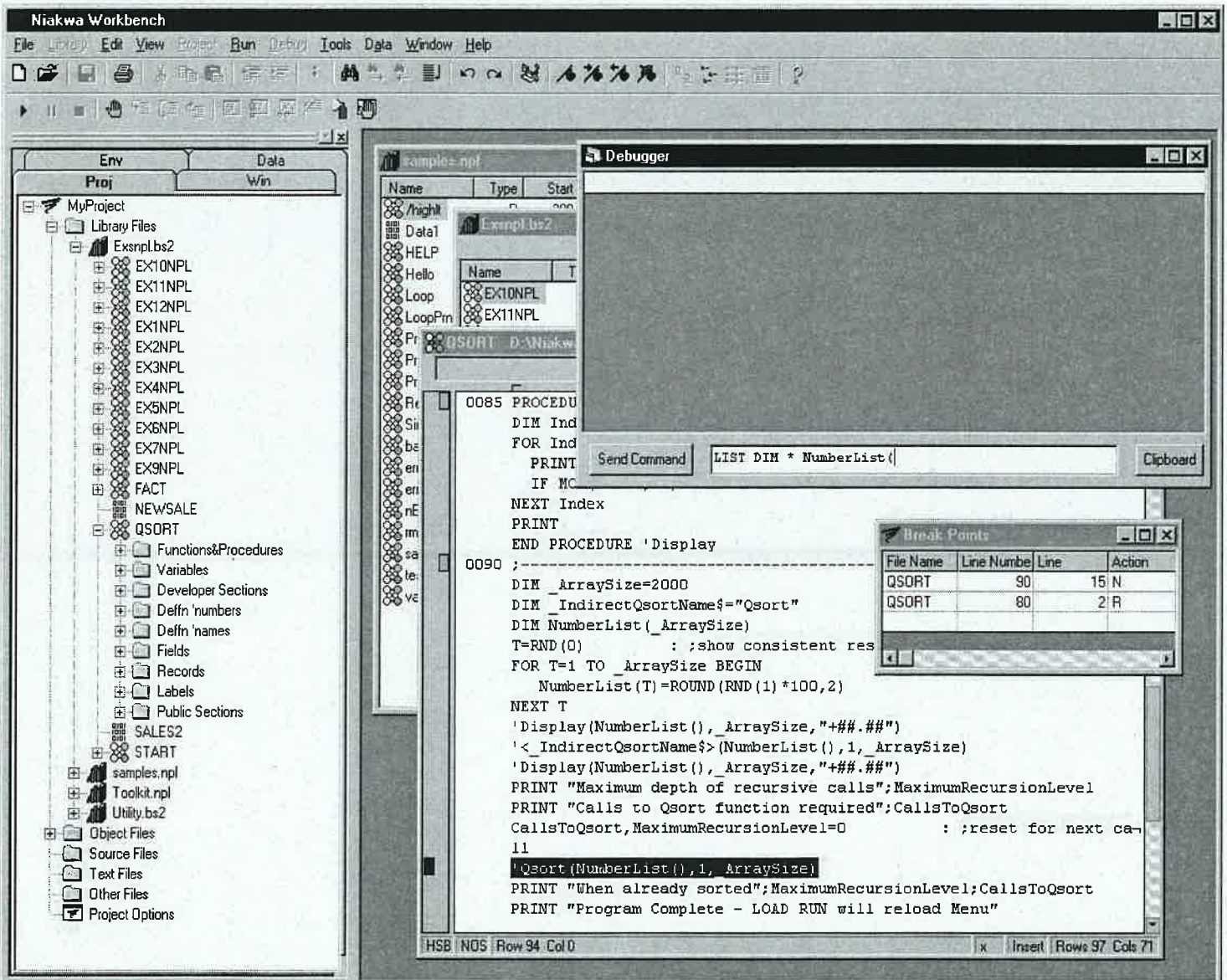
NIAKWA WORKBENCH EDITOR DEBUGGER

Since the introduction of NPL Release V and the Niakwa IDE, we have been overwhelmed by the positive response and input we have received from the NPL development community regarding the new Niakwa Workbench Editor. While the Workbench Editor has made great strides in improving programmer productivity, the number one question we are asked is "Where is the debugger?" Well we are pleased to announce that the wait is almost over!

The Niakwa Workbench Debugger has been in alpha test-

ing since late April and is being prepared for a third quarter beta delivery. This second phase of the Niakwa Workbench picks up where the editor leaves off, featuring a robust debug facility designed from the NPL developer perspective. Niakwa's goals for the debugger are simple: "Whatever you do now in the current line editor, you can do in the debugger. (Only faster!)" Plus, there are extra goodies.

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Here are just a few highlights of this new product:

- *Run/Break/Halt controls*
- *Set and toggle multiple breakpoints*
- *Bookmarks*
- *Step/ Step Out/ Step Over controls*
- *Local and Global Variable Watch Windows*
- *Error and Call Stack Windows*
- *Variable Quick Watch*
- *Immediate Mode Window*
- *Breakpoint Window*

New Context Sensitive Help – The NPL Statements manual has been converted to HTML Help format and fully integrated with the Workbench. Simply place your cursor on any NPL statement and press F1 for a full description of statement syntax and usage. From there, you are free to cut and paste syntax directly into the Workbench.

On-Line Documentation – In addition to the context sensitive Statements Manual mentioned above, we are making significant strides in on-line documentation by making the Visual NPL and Open NDM manuals directly accessible from the Workbench.

New Explorer Project View – The Workbench Debugger replaces the Project Window popularized in the Workbench Editor with a powerful Explorer style control featuring Project, Environment, and Window views of the currently running application.

Open NDM Visual Utilities – These new Visual Utilities introduce all of the functionality of the Niakwa Data Manager Utilities into the Workbench. NDM users may now create and access all NDM catalog, key description, data description and data files directly from the Workbench.

New Edit Control – While transparent to the developer, the underlying third party edit control present in the Workbench Editor has been replaced by our own internally developed edit control, providing greater control over the environment and laying the ground work for future Workbench enhancements.

Availability – The Workbench Editor/Debugger beta is due for release in the third quarter. It will be distributed (via CD-ROM) to all currently renewed Distributors.

OPEN NDM FOR SQL

Data Management has undergone a revolution since the days when each developer built their own data management system for managing fields, records and files. Today, the concept of “open data” has evolved, giving developers the ability to store and retrieve data from any popular database using standardized calls. To keep pace with this important trend, Niakwa is making significant enhancements to our existing NDM product line. Our new Open NDM for SQL product provides NPL developers with a pathway to open data. Open NDM for SQL provides access from a Windows client through Open NDM to ODBC-compliant data sources on compatible database platforms.

Support for ODBC from Open NDM gives NPL developers the ability to access a wide range of popular databases from Windows platforms. In addition, where supported by Microsoft and/or the database vendor, NPL developers will be able to deliver their front-end user interface on Windows and have the database reside on other platforms such as Unix, offering further client-server support to the NPL developer.

We queried our developers through the NPL List to determine which ODBC-compatible databases that we should immediately certify. As a result, the initial implementation of Open NDM for SQL will support these five:

- *Microsoft Access*
- *Microsoft SQL Server*
- *Oracle 8*
- *Pervasive SQL*
- *Pervasive Btrieve*

More databases may be added at a later time based on compatibility testing and market demand.

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The initial release of Open NDM for SQL will support ODBC access through the existing NDM API set, enabling existing NDM programs to access ODBC files *with few or no code changes*.

However, future plans call for extensions to Open NDM to support database-specific ODBC features in order to gain optimum performance. While our first release will be more or less a "drop in" for existing NDM applications, the future release with ODBC extensions will likely require some application modifications to take advantage of database-specific functionality.

As we have stated many times, our intention with Open NDM for SQL has been to support all ODBC databases with the same implementation. (This does not mean simultaneous support for multiple databases at run time, such as opening a Btrieve and Oracle file at the same time, but does mean the same Open NDM DLL may be used to access any single ODBC database at run time.) This goal of universal access out of the box has been more elusive than we expected, because each database vendor is free to interpret the ODBC standard as they choose. The net result has been that we have had to tailor Open NDM for SQL to accommodate each new database that we have tested.

We will include the beta version of Open NDM for SQL in our release of the 5.01 IDE (Integrated Development Environment) CD-ROM. ➤

WINDOWS NT AND NOVELL NETWORK ENHANCEMENTS (IP ONLY)

Windows NT Network Enhancements - IP Only Option

Not long ago we polled our NPL List for opinions on whether we should implement NT Networking using only the IP protocol, eliminating the need for NetBIOS and NetBEUI, in a Windows NT network environment. The overwhelmingly positive response we got from our query told us this would be a much welcomed addition. The

ease of workstation setup and elimination of a sales objection (to the NetBEUI requirement).

It is our intention to implement this feature in the Group 4 Supported Networks RunTime. At this time these enhancements will only be available when using NT Server as the server, not NT Workstation (but we're still investigating.)

Because this was not in our initial plans, we have some catch-up work to do in order to make it part of 5.1, and we will let you know when we can confirm that.

Novell Network Enhancements - IP Only Option

One of the features of NetWare 5 is the ability to set up the network using only the IP protocol, eliminating the need for IPX/SPX. Niakwa will certify the use of NPL with NetWare 5 in NPL 5.1, including the IP Only functionality.

The current field releases of NPL do not function properly in a NetWare IP Only environment. In the interim between now and NPL 5.1, a maintenance release will be available on the 5.01 IDE which will provide preliminary support for this style of networking, assuming the installation is hand tuned for it (see the documentation.)

NPL 5.1 final release will provide full certification of IP only networking using Novell. ➤

Don't forget Niakwa's new address:

*1850 W. Winchester Road
Libertyville, Illinois 60048
847-816-7400 phone
847-816-7420 fax*

OPEN NDM VISUAL UTILITIES

We have completed the integration of the NDM utilities into the Niakwa Workbench making it easy to handle all NDM coding work directly from the Niakwa Workbench... another time saving advancement to help you get your products to market faster!

This new, graphical version of the NDM Utilities is called the Open NDM Visual Utilities and will be available with the Workbench Debugger beta.

These utilities provide developers with a set of data management tools available right from the Workbench desktop. Their job is to assist in creating, deleting, editing, and viewing support files associated with Open NDM files and/or ODBC data sources, including:

- catalogs,
- key descriptions,
- data descriptions,
- error descriptions, and
- the data itself.

The Visual Utilities contain all functionality provided in the previous text-mode releases of the NDM Utilities, plus they add support for ODBC data sources through the new Open NDM for SQL module. All text-mode file-maintenance screens have been converted to use Windows dialogs and controls, providing a graphical display for examination and entry of information.

- Niakwa Programming Language - RecordForm (User Data File CUSTOMER)

File Library Edit View Project Run Debug Tools Data Window Help

Proj Win Env

Samples
Library Files
Object Files
Source Files
Text Files
Other Files
Project Options

File Title	File Name	DD Title	KD Title	File Type	File Description
CUSTDD	CUSTDD	NDMDDDD	NDMDDKD	User	Data Description
CUSTKD	CUSTKD	NDMKDDD	NDMKDKD	User	Key Description
CUSTOMER	CUSTOMER	CUSTDD	CUSTKD	User	User Data File

Data Description CUSTDD

FIELD NAME	CONVERSION TABLE NUMBER	B2C FIELD TYPE	B2C FIELD START POSITION	B2C FIELD LENGTH	B2C DECIMAL POSITION	NATIVE FIELD TYPE	NATIVE FIELD START POSITION	NATIVE FIELD LENGTH	NATIVE DECIMAL POSITION	APPLICATION
CUSTOMER NUMBER	0	7	1	5	0	1	1	5	0	
NAME	0	7	6	20	0	1	6	20	0	
PHONE	0	7	26	13	0	1	26	13	0	
YTD SALES\$	0	5	39	5	0	8	39	5	0	
NUMBER OF SALES	0	6	44	2	0	2	44	2	0	
CITY	0									

Key Description CUSTKD

FIELD NAME	ASCENDING	UNIQUE	INDEX NUMBER	SEGMENT NUMBER	KEY COMPRESSION (CJSAM)	INDEX FILE NAME
CUST #		Y	1	0		
CUSTOMER NUMBER	Y		1	1		
SHORT NAME		N	2	0		
NAME-I	Y		2	1		
SALES BY AREA		N	3	0		
AREA-CODE	Y		3	1		
YTD SALES\$	N		3	2		

User Data File CUSTOMER

CUSTOMER NUMBER	NAME	PHONE	YTD SALES\$	NUMBER OF SALES	CITY
1122	T. Collins	(987) 654-321	98765	98	Weston
2332	D. James	(213) 443-322	50500	202	Baton Rouge
3331	G.C. Compton	(812) 736-454	362718	912	Salsbury
4231	J. Oslers	(543) 231-123	65432	16	Jamestown
4321	J. Thompson	(204) 555-121	64000	23	Pilot Mound
4322	K.D. Saunders	(412) 555-121	17640	53	Vernon
4333	X. Samuels	(123) 456-789	12345	123	Arlamsville

NPL V FOR SCO UNIX

As a part of NPL 5.01, we will be releasing NPL Release V for SCO Unix and making it available as part of the Niakwa Integrated Development Environment (IDE).

All NPL SCO platforms have been 32-bit for many years. However, in the interest of product compatibility across all platforms, we are updating this platform to make the new NPL language syntax enhancements available to Unix developers and users. NPL Release V for SCO Unix includes all of the new and enhanced features introduced in NPL Revision 4.3 and 5.0 as they pertain to the Unix environment.

These features include (but are not limited to):

- NEW! Year 2000 Readiness
- NEW! DATA LOAD/SAVE BU statements
- NEW! NDM for TCP/IP
- NEW! \$LDATE (Year 2000 enhancement)
- NEW! \$IMAGEF and \$IMAGEG statements
- NEW! LIST PROC statement implemented
- NEW! REDIM statement implemented
- NEW! Seven native file access commands (streams) from CLOSE# to WRITE#
- Plus LIST DC/READ DC extended
- Plus Enhanced Boolean expressions added
- Plus Default \$DEVICE entries extended to 255
- Plus KEYIN extended to permit Labels as branch targets
- Plus ON ERROR extended to permit Labels as branch targets
- Plus More....

NPL 5.01 RunTimes for SCO-Unix will be available beginning June 30, 1999. The NPL 5.01 IDE will be available mid-July.

5.01 IDE

Niakwa is pleased to announce the upcoming release of the NPL Revision 5.01 Integrated Development Environment (IDE). We plan to include all of the products currently on the IDE, with the addition of the following:

- NEW NPL V for SCO Unix Development Files
- NEW NDM for TCP/IP
- NEW Version 5.1 Pre-beta including:
 - Open NDM for SQL
 - On-Line Statements Manual
 - On-Line Open NDM Documentation
 - On-Line Visual NPL Documentation

The Revision 5.01 IDE will ship with an NPL Release 5.01 Unix Addendum as well as documentation for Open NDM for TCP/IP. This IDE update will automatically be sent to all renewed resellers at no charge. The final release date will be announced in a *Niakwa On-Line News Brief*.

NPL SHOWS UP EVERYWHERE!

Did you know that NPL Developers exist in a wide range of vertical markets? Many are leaders in their perspective markets due to their extensive knowledge coupled with the non-stop development they have been able to accomplish since the inception of their products. We thought you would be interested to see some of the various markets NPL shows up in:

- *401K Plans
- *Agriculture
- *Auto Parts Distribution
- *Banking & Finance
- *Cable Industry
- *Car Rental Agencies
- *Credit Unions
- *Emergency Services
- *Engineering
- *Eye Care
- *Freight Forwarding
- *Fuel Industry
- *Government Fund Handling
- *Homebuilders
- *Healthcare
- *Lumber and Concrete
- *Municipalities
- *Payroll Distribution
- *Printing Industry
- *Radio Stations
- *Trucking/Transportation
- *And many many others

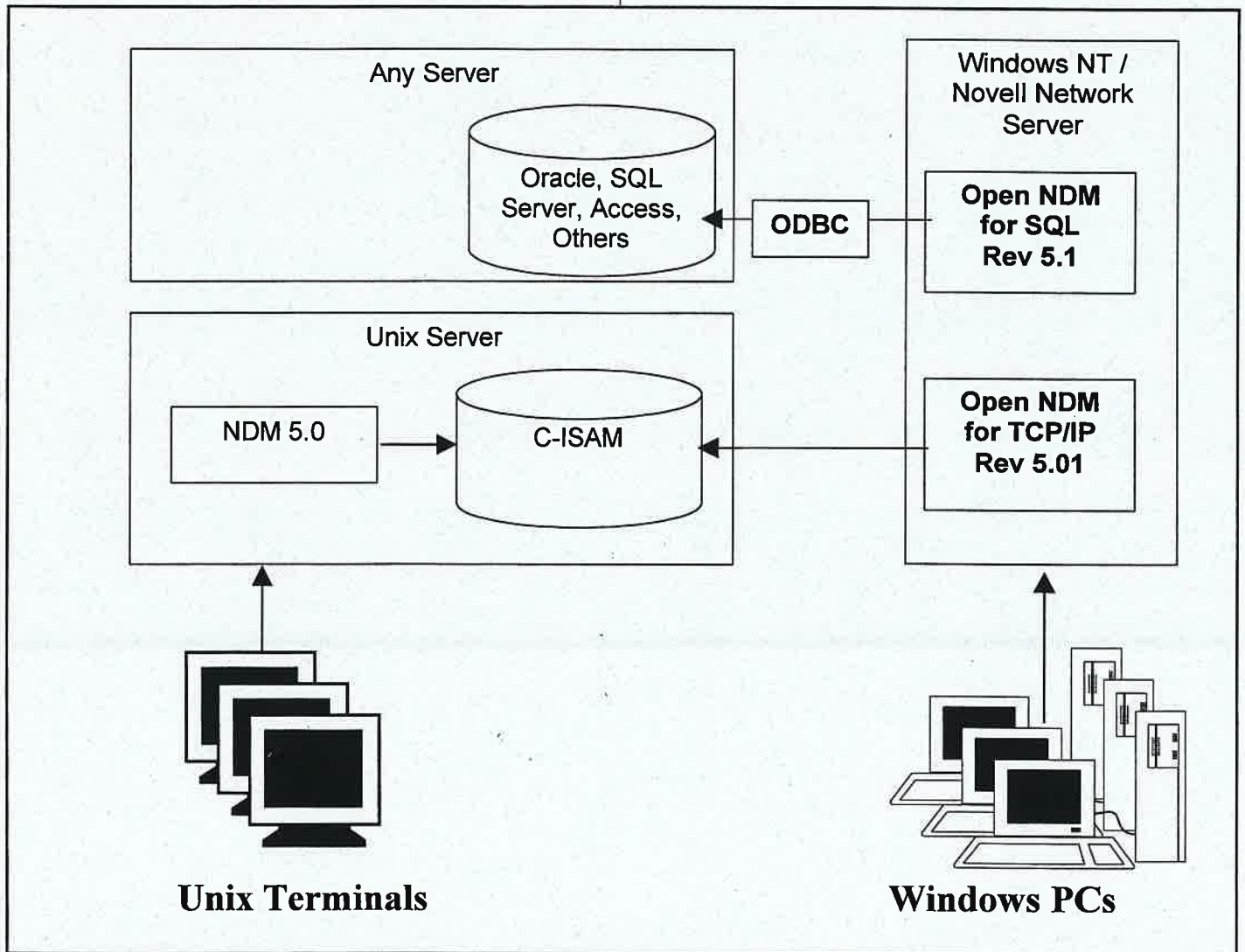
OPEN NDM FOR TCP/IP

Another component of Release 5.01 is the introduction of Open NDM for TCP/IP: which allows an NDM application running Niakwa's 32-bit Windows RunTime to access C-ISAM files on a SCO Unix server. This ability allows those developers with installations of NDM under SCO Unix to implement a new style of network.

Open NDM for TCP/IP makes it possible to implement

Windows functionality via standalone or network machines, while maintaining the reliability and performance of a Unix data server.

Open NDM for TCP/IP will be included on the NPL 5.01 IDE CD-ROM along with associated on-line documentation. (See the following diagram)



Open NDM for TCP/IP, available in 5.01, allows Windows NT and Novell network servers using NDM to connect to C-ISAM databases on SCO Unix. **Open NDM for SQL**, available in 5.1, allows Windows NT and Novell servers using NDM to connect to SQL databases on any server supported by ODBC drivers.

WEB HOSTING WITH N-SERVER

Web hosting is an emerging new segment within our industry. Niakwa plans to make it available to NPL developers via N-Server, the Web Hosting service for NPL applications.

Web Hosting is so new that even its name varies depending upon who you talk to. It is the process of hosting application software over the Internet to end-users. It is akin to service bureau processing over the Internet. End-users use the application software on-line and therefore do not have to invest in an in-house system.

Web Hosting offers significant advantages to end-users and developers alike. Benefits to end-users include:

- Getting started with new applications is faster and less expensive
- On-going Information Technology (IT) costs are reduced and predictable (therefore easier to budget). End-users no longer have to worry about expensive IT staff, software upgrades, or outdated hardware.
- Better IT service levels. Web hosting experts take care of the problems associated with operating in-house data processing systems such as software updates, compatibility issues, backups, security, hardware maintenance and upgrades, and network hassles.

The benefits of Web Hosting to NPL developers are also exciting:

- Improved market penetration. Web Hosting's unique characteristics such as on-line demos and low entry price point will allow NPL developers to reach end-users in a broader geography, and in some cases entirely new market segments with minimal investment.
- Steady revenue stream. End-users of Web Hosting will provide developers with predictable monthly revenue that can be used to grow the business, pay for product development, or fund a retirement.
- Improved life style. Niakwa's N-Server staff will assume system responsibility, substantially reducing software developers' support burdens. No more network hassles, hardware problems, or software revision level headaches. No more calls from end-user calls in the middle of the night and weekends. It will leave you with more time for product development, sales activities or quality time off.

Our research shows that applications developed in NPL are well suited for hosting over the Internet. They are typically feature rich, often leaders in their respective markets. NPL developed applications have much in common with web applications such as the use of thin clients and operation on one object at a time. Using Windows Terminal Server, most applications developed in NPL can operate over the Internet with minimal modification.

In Web Hosting, the applications are hosted over the Internet by Application Service Providers (ASP's), who offer the traditional services of an Internet Service Provider (ISP) plus the additional services necessary to host application software. An ASP offers end-users the entire package including applications software, data storage, Internet services for the application, traditional IT services (i.e. security, backup, application support, technical expertise, maintenance), installation services and support. The end-user provides the desktop systems and pays a monthly fee for each user who is on-line to the ASP.

Niakwa is currently making the investment in N-Server, the ASP for NPL applications. We are installing the high-speed phone lines, fault tolerant hardware, and hiring the personnel necessary to provide ASP services for NPL developers. The N-Server ASP will be tested using Niakwa's internal use application software after which we hope to gradually add other NPL applications. As the ASP business evolves we intend to provide sales and marketing services designed to increase sales of NPL software hosted via N-Server.

We envision N-Server being used in many ways. Developers with an active sales force might only use N-Server for its ASP services. Other developers might use Niakwa's sales and marketing programs to supplement their own activities. Other NPL developers will use N-Server as a retirement plan by converting existing customers to N-Server thereby creating a steady, predictable retirement income with a reduced workload.

We at Niakwa are excited about N-Server, the Web Hosting service for NPL applications. It capitalizes on our collective core competencies and promises to create a reliable revenue stream.

We will keep you posted as our plans evolve. In the meantime if you have an interest in N-Server or have

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comments or suggestions please contact Dick Drew via e-mail at rcd@niakwa.com, or via telephone at 847-816-7400.

YEAR 2000 END-USER NOTIFICATION

Year 2000! That's all we seem to hear these days. For some developers it's a real revenue opportunity as they upgrade applications, operating systems, hardware and more. It's also a great opportunity to get your user base up to a consistent and higher NPL revision level. By having all or most users on NPL IV or V, you can now start to take advantage of the full power Niakwa has made available to you in Release IV and Release V such as Vinny, structured programming and 32-bit functionality. With the added benefits of centralized coding from the Workbench, you will be able to produce significant results and in much less time.

Meanwhile, we are still in the midst of getting NPL users upgraded to fully supported versions of the language. As has been repeatedly broadcast through our on-line news, our web page, and individual contacts, **Intel DOS and Windows prior to Revision 4.2 are NOT Year 2000 Ready.** It is highly advisable that all users be upgraded since the third-party security used in those versions is not Year 2000 Ready.

To help to ensure users do not miss this message, Niakwa recently mailed a Year 2000 Notification and Survey for end-users. This self-mailer has been sent to all Resellers and End-User Licensed Developers both active and inactive. It was designed as a fax-back form, but the survey can also be completed via email at:

www.niakwa.com/products/y2ksurvey.htm

End-user responses will be forwarded to their active Reseller. If the Reseller indicated is no longer active, the end-user will be matched to another active NPL reseller.

If you have end-users past or present that may still be using older versions of the Gold Key, we highly encourage you to send this mailer to them. For additional copies please contact Cyndee Philyaw at clp@niakwa.com. We even have a customizable version if you are interested.

PROGRAMMING TALENT AVAILABLE

Niakwa has recently become aware of several individuals who are available for programming projects. Their skill sets all include NPL, some include specific skills in various IDE components such as NDM, and some include skills outside of NPL. These individuals may be available for full time or contract work. (Although we can't make any promises about location.)

If you might have an interest in these individuals, please contact Jason Dederich at Niakwa or via email at jtd@niakwa.com, or fill out an on-line form at http://www.niakwa.com/sig/sigreq_cp1.htm

NIAKWA'S NEW WEBSITE

After much anticipation and hard work, the new and improved Niakwa website went live on February 1, 1999. The new website is a complete reconstruction which provides much better organization and navigation around the site. It also provides enhanced search capabilities as well as new and updated content about recent product developments. There's a new "What's News" section which is the centerpoint of new information. There are also on-line archives of Today's Niakwa News and On-Line News Briefs, as well as Data Sheets, Marketing Bulletins, Technical Notes and Bug Reports. Be sure to visit our technical support area where you can pick up some hints and tips, review some of the most frequently asked questions and access invaluable product information. We received a comment from Donovan Burkhart, President of Business Data Resources, that we would like to share with you:

"Eeeks, the Niakwa web site has undergone a major face-lift. I spent 45 minutes or so and tried to go down nearly every possible path. Well done! I love the online bug reports and tech notes, and look forward to more online documentation."

So log on and check it out and remember that it is updated frequently, so stop by often!

The site address is:
<http://www.niakwa.com>

TECH BYTES

In the past, some developers hesitated to use the Windows RunTime because their application was sending printer control codes to the printer. The problem was that the Windows Print Manager stripped out the control codes and the developer had no control over the printing process. That changed with the release of Revision 4.22 which introduced the "XPA=Y" option.

The "XPA=Y" clause permits printer control codes to be "passed through" the printer driver to the printer instead of being stripped out as in the past. Most printer drivers support the "pass through" option, but not all.

The correct syntax to enable "Pass through control codes" is

```
$DEVICE(/xxx) "printer driver name XPA=Y".
```

This of course must be entered in the device table.

Here's a handy trick to find the correct way to address the Windows printer driver.


- 1 Make sure the printer is configured in Windows 95, 98 or NT.
- 2 Write a small program

```
10 $DEVICE(/215) ">(?)SET=Y"
20 SELECT PRINT 215
30 PRINT "HELLO"
```

- 3 Run this program using RTIWIN. A Windows printer selection box will pop up and allow you to select a printer.
- 4 Select the printer you want to define and let it print. Don't exit the RunTime, but enter "LIST DT".
- 5 Make a careful note of the exact way device 215 is listed.
- 6 Enter that DEVICE definition into your program device table and substitute XPA=Y for SET=Y.

As mentioned earlier, MOST printer drivers support the "pass through" option. If a particular printer driver doesn't support the "pass through" option, you will get a P-48 error the first time you try to print to that device. If that hap-

pens, you can configure Windows' "Generic text only" printer driver for that printer and use the "XPA=Y" option. After all, you are sending control codes to the printer anyway. If you get a double page feed at the end of the print job, change the "Paper" setting in the properties window of the Generic printer driver to "Continuous, No page break".

Here's a little tip for troubleshooting printer problems in the Windows runtime. Try setting the XPA=Y option, even if you're not sending control codes. It might help correct some line feed problems. 

If you are not currently receiving our On-Line News Brief, please send your company information and e-mail address to info@niakwa.com and we will put you on our mailing list!

NIAKWA HAS A NEW HOME!

After nearly 12 years in Mundelein / Vernon Hills, Niakwa moved its headquarters to Libertyville, another northwestern suburb of Chicago. Our new home offers many amenities that we all appreciate. A few of these are larger and more convenient storage spaces, more room for software production and increased technical support space. We also have much more natural light and a very convenient floor plan. We have been fortunate enough to move into a brand new building and the fresh paint and new carpeting are a welcome change! Our new location also lessens the commute time for many of our personnel and that's always helpful, especially during the Chicago winters!

Niakwa's new address and phone numbers are as follows:

*1850 W. Winchester Road
Libertyville, Illinois 60048
847-816-7400 phone
847-816-7420 fax*

Our Web Site and e-mail addresses remain the same. 