

The Print Line

The Newsletter of Levi, Ray & Shoup, Inc.

Spring 2003

Seamless Enterprise Report Conversion to Adobe PDF

Organizations will gain the ability to deliver reports and documents in PDF format using VPS/PDF. This new product automatically converts AFP documents to PDF files, maintaining fidelity and making them available to any user, regardless of their location or platform.

Adobe's Portable Document Format (PDF) has emerged as the industry standard for electronic distribution and presentation of complex documents with full presentation fidelity. VPS/PDF uses this standard to deliver reports via e-mail, Web browser, remote file or other electronic media and to PDF capable printers by converting existing AFP documents into self-contained PDF files.

VPS/PDF supports variable compression levels, native IBM AFP outline fonts and font mapping to Acrobat core fonts. VPS/PDF converts IBM AFP bitmap fonts to Adobe Type 3 fonts, allowing for the use of custom fonts such as bar codes. The new product also provides codepage mapping to custom translate tables via the VPS/PDF resource table. This allows you to create a full electronic version of your reports that looks like the original.

VPS/PDF takes advantage of the security features available for PDF. Users can password protect documents and enable or disable end-user ability to print, modify, or extract text from the document.

Distributing business documents electronically in a widely accepted format can help an organization lower costs and increase efficiency. It can improve customer service, reduce or eliminate the cost of printing business documents, and provide instant delivery of documents to eliminate the delays of physical delivery.

For more information about VPS/PDF email us at askLRS@LRS.com. Or visit us on the web at www.LRS.com/EOM/DSVPSPDF.htm to view samples of converted documents.

The screenshot shows a mainframe report converted to PDF. The report is titled "LRS REPORT CONTROL NO. 201100011" and "111". It contains patient information for "PATIENT, JANE D." at "1234 MAIN STREET, PITTSBURGH PA 15240". Below this is a table of charges with columns for item number, description, and amount.

ITEM NO.	DESCRIPTION	AMOUNT
214	COO/INTERMEDIATE	490.00
215	DRUGS/PHARMACE	1440.00
217	DRUGS/PHARMACE	2140.00
259	TV SOLUTIONS	320.00
265	TV THERAPY	800.00
270	MED-USE SUPPLIES	800.00
310	LABORATORY	8000.00
334	EN X-RAY/CHEST	10900.00
410	RESPIRATORY SVC	10000.00
480	HEARD ROOM	12000.00
700	ORG/ROG	14000.00

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LRS Delivers Support for IPDS Printers over TCP/IP Networks

Organizations that have invested in IPDS (Intelligent Print Data Stream) printers can now print to them over TCP/IP with LRS® software solutions. Prior to this release, VPS could only support the delivery of IPDS output to SNA-attached printers. VPS/TCPIP and VPS/IPDS are required to provide this type of printing support.

This enhancement will enable organizations to manage all printing, including print jobs destined for TCP/IP connection IPDS printers, using Enterprise Output Management software from LRS. They can now utilize the VPS® product family as a central point of control for defining, activating, monitoring and controlling all their printers.

Many organizations implemented IPDS printers and wish to take advantage of the checkpointing and error recovery

capabilities IPDS offers. VPS/TCPIP enabled checkpointing and error recovery capabilities for many printer types through the implementation of Bi-Directional Internet Printing (BIP); however, BIP support was not available for printers that did not support PJI commands. IPDS printers such as the IBM 6400 and 4400 will now be fully supported in IPDS mode as a result of these changes. Prior to this announcement, routing IPDS output to those printers required the use of Print Services Facility (PSF) from IBM.

For more information about this new functionality, please contact your LRS marketing representative.

LRS Implements 2-D Barcode Support

Many organizations have implemented or studied the implementation of incorporating two-dimensional, or 2-D, bar codes into their AFP documents. The benefit of 2-D bar codes is a dramatic increase in the amount of information bar codes can contain.

A one-dimensional bar code generally represents one input field of a database record. With 2-D symbols, however, an entire record of a database can be stored in a single bar code. The name of one popular 2-D bar code supported in AFP, PDF417, stands for Portable Data File.

In response to requests by LRS® customers, our Product Development staff

has incorporated basic support for PDF417 into VPS/PCL. Any customers interested in trialing the 2-D bar code enhancement should call their marketing representative at 217-793-3800.

Common PDF417 features are supported in this initial release of the 2-D bar code enhancement. Customer feedback and requests for specific additional PDF417 features, or requests for support of other AFP-supported 2-D bar codes (such as DataMatrix and Maxicode) will help us focus our development efforts as we continue to expand this aspect of VPS/PCL.

Current Version/Release Levels

Product	Version/Release	Fix Level
VPS®	V1R7.0	337
	V1R8.0	394
VMCF™	V1R7.0	130
	V1R8.0	068
	V1R8.1	062
VMCF Client for Win.	V1R1.1	008
	V1R1.2	005
VMCF Web Access	V1R1.0	005
DRS	V1R3.2	140
	V1R3.3	096
	V1R3.4	032
DRS/Output Manager™	V1R1.0	000
DMCF	V1R1.0	006
VPSPrint	V1R6.1	023
VPS/Report Browse	V1R2.1	005
	V1R2.2	000
LRS® OS/API	V1R1.0	025
	V1R1.1	003
	V1R1.2	011
LRS MVS Server	V1R7.0	083
	V1R8.0	162
PageCenter®	V1R1.0	018
	V1R1.1	172
Client for Windows	V1R1.1	010
Web Access	V1R1.1	009
	V1R2.0	016
	V1R2.1	015
	V1R1.2	011
AnyQueue®	V1R1.2	010
AnyQueue/WebTRAC®	V1R1.0	014
AnyQueue/PageSorter®	V1R1.0	001
AnyQueue/Text2PDF	V1R1.0	005
LRS Queue	V1R1.0	016
VPS/PC for NT	V1R1.0	019
VPS/PC for OS/2	V1R1.3	025
VPS/PC for NLM	V1R1.1	009
VPS/PC for Win.	V1R1.3	019
VPS/PC for DOS	V1R1.3	002
DRS/PC for NLM	V1R1.3	019
DRS/PC for DOS	V1R1.1	004
PageCenter Plus®	V1R1.0	008
LRS/LAN Server	V1R1.1	011
LRS/Web Connect	V1R1.0	036

NOTE: "VPS®" includes VPS/TCPIP, VPS/PCL, VPS/IPDS, VPS/LCDS, VPS/Email, VPS/CDI, VPS/Secure™, VPS/PDF, and VPS/XES to AFP. "VMCF™" includes VMCF/TSO, VMCF/CICS, and VMCF/VTAM.

"DRS™" includes DRS/API, DRS/VPI, DRS/STI, and DRS/SAPR2.

"PageCenter®" includes PageCenter Client for TSO, PageCenter Client for CICS, and PageCenter Client for VTAM.

If you are running at an old fix level and wish to receive updated distribution materials, contact your marketing representative.

Please remember that we cannot ship materials to a site where maintenance has lapsed.

LRS and Intermate A/S Expand Encryption Support

LRS has emerged as the leader in preventing unauthorized access to your business critical reports. Our enterprise output management solution can be quickly enhanced to provide end-to-end encryption of output from the source to the printer, across the LAN or across the Internet. This ensures that internal and external access to information is controlled, and that network packets are undecipherable if intercepted.

LRS previously announced solutions with both Lexmark and HP secured printers. We now also support the Intermate 100 and 101 print servers, which implement the Intermate Secure Print Protocol (ISPP) to expand the list of supported printers. The

Intermate 100 and 101 are decryption-capable print servers which connect to the parallel port of many popular printers and copiers.

The Intermate 100 and 101 print servers work with any printer which has an IEEE 1284 compliant parallel port and supports Printer Job Language (PJL).

This solution can provide end-to-end security for print jobs, along with advanced page level monitoring, control, and viewing using standard internet browsers.

For more information about secured printing with VPS/Secure™ software and the Intermate A/S Print Servers, visit our web site at www.vps.com/GenSecure.asp



The Intermate 101

PageCenter® Enhancements Announced

Customers using PageCenter® software will be pleased at the many new features available. Those enhancements include:

- The ability to specify a page or range of pages for a host print of an AFP document, providing an alternative to local, or Windows, printing for partial AFP reprints.
- Adjustable margin shift when users perform a local print of an AFP document, which can help position the document to avoid non-printable areas on the edge of pages produced by individual desktop printers.
- The ability to perform as many as nine restores at the same time. This enhancement also helps limit tape mount requests by processing restore requests for generations on the same tape together, when possible.
- Marking multiple items on a list for deletion, confirmation and restoring.
- The capability to reference VPS-defined printers. This enhancement introduces a new type of PageCenter printer definition—VPS® printers. When a VPS type of PageCenter printer is referenced, the current selection criteria (class, dest, form and/or writer) will be

retrieved from VPS and used for the SYSOUT attributes for the print request.

- PageCenter Web Access has been enhanced to allow Line Data Browse to view multiple pages on the screen using the Range Browse feature. Customers can print an entire cluster (pages with the same index values). The zoom and find options have been enhanced to make them easier to use.

In some organizations, system administrators define new employees as system users with the help of specialized programs that define new users to all systems. A new enhancement gives system administrators the ability to communicate with PageCenter using an administrative Application Programming Interface (API) from their administrative software packages.

These and other enhancements are listed in the front of the current PageCenter manual, along with any file conversions required when upgrading. The PageCenter manual can be downloaded as a PDF file from the Services & Support section of the Enterprise Output Management Web site, www.vps.com. PageCenter enhancements can be implemented by calling your LRS Marketing Representative.

Support Available During Business Hours, Emergencies

Organizations that rely on Enterprise Output Management products from LRS know that they can get answers to product questions simply by calling Product Support during normal business hours. With the exception of company holidays, qualified support staff members are available from 8:00 am to 5:00 pm U.S. Central Time Monday through Friday to take calls and assist LRS® customers with their EOM product questions.

Support is also available 24/7 on our web site. To reach online support, go to www.vps.com and click on Services & Support, and then click on "login screen" to enter a valid user name and password to reach our secure support area (see "Emergency Product Keys via the Web" at right for information on obtaining a user name and password for access to the Support area of our Web site).

The support area includes extensive information about EOM products, including current fix levels, complete product documentation, and details about known problems. Customers can download fixes and zaps that have been developed to resolve known problems, as well as user exits and macros for products.

"On call" staff members provide emergency support outside of normal business hours. Emergency situations are

typically defined as problems that cause, or threaten to cause, a material interruption to a customer's business operations outside of normal business hours.

To request emergency support, call 217-793-3800 and listen to the prompts announced by the automated phone answering system. The system will direct the caller to dial 3000 to reach emergency support instead of the usual extension number.

"During normal business hours, a customer should dial 2000 to hear the options for reaching support," Steve Mortimer, product support manager, explained. "If the customer dials 2000 at night or on a weekend or during a holiday, they will not reach our support system. Instead, their option will be to leave a voice mail message which no one will be able to hear until we're back in the office."

Customers who dial 3000 during non-business hours can send a message to a designated "on call" member of the Product Support staff. That person will contact the customer as quickly as possible, often within minutes of the call, to assist with the emergency.

LRS Product Support and emergency support are available to LRS customers anywhere in the world.

Emergency Product Keys via the Web

For an LRS® customer, it represents a worst-case scenario: During a holiday weekend, a system message appears, informing you that the product key for an LRS software product is about to expire.

Although we work to ensure that term licenses and trial keys expire during the week when LRS personnel are readily available, there are times when keys expire during holidays. If that occurs, customers can use the Enterprise Output Management Web site to obtain a one-time emergency key for each licensed LRS product. Emergency keys are valid for five days, which should be enough time to contact your LRS marketing representative and resolve any license issues.

On the EOM home page (www.LRS.com/EOM), click on Services & Support; on the Services & Support page, click the link for the login page, where you enter your user ID and password. You will then see the Product Support page and the "click here" link for emergency keys.

When you click on that link, you proceed to a page that enables you to generate emergency keys for your products. Be sure to read the notices on the page carefully; you can only generate emergency keys once. Generating emergency keys again requires specific authorization from LRS.

Generating keys requires a Support user ID and password. You can request a user ID and password on www.vps.com. Just click on "Services & Support," and on the Services & Support page, click on the "New User Registration" link.

Once you provide required information, you will be instructed to print a copy of the Internet access agreement. Once you sign this form and fax it back to LRS, you will receive your ID and password by email.

Share Your LRS® Product Suggestions

LRS makes it easy for users to share suggestions and enhancement ideas about Enterprise Output Management software.

A page on the EOM website, www.LRS.com/eom/Enhancement_Request.htm, makes it easy for you to share your thoughts directly with

the EOM Product Development staff. Simply log in with your customer ID and tell us what features you would like to see in specific EOM products.

Your comments will go directly to EOM Product Development.

Web-based Enterprise Print Monitoring and Control

Print Delivery Management Web Access

You can now monitor, track, control, manage, and view your enterprise output from any platform that supports a standard web browser. VMCF Web Access provides your support staff with the same tools and functionality available on the mainframe—and more.

Users can login using any supported platform with a web browser. The web interface is customizable to match your corporate standards. It allows users to display information about only the VPS®-defined printers they are authorized to control. They can use the familiar Web interface to display comprehensive printer status and error messages from TCP/IP-connected devices that support LRS bi-directional printer communication.

With the web interface and our optional viewer, VPS Report Browse, users can display formatted output still on the JES spool—including PDF documents and PCL files—using the appropriate browser plug-in. Through the output retention feature, they can also view output after it has completed printing.

Your support staff can get direct access to configuration information for printers with Web-enabled network cards, reducing the time and effort required to get new printers online.

For a demonstration of the new VMCF Web Access software, visit <http://www.LRS.com/EOM/PDVMCFWeb.htm>

Print Capture Management Web Access

LRS now offers open-platform Web Access to each of its Enterprise Output Management software products. DMCF, the DRS Monitor and Control Facility, offers a standard easy-to-use web interface for the Dynamic Report System.

DRS software captures output from distributed computing platforms, including Windows NT/2000/XP, UNIX, AS/400, Linux, and the OS/390 or z/OS mainframe. For each print job submitted to DRS, regardless of the platform where it originated, the web interface allows users to see the job's current status (including Waiting, Printed, Purged, Printing Error) and the date and time that the job was created, printed, or purged. This allows you to have one server to manage all the distributed output, while providing access and control from anywhere—using any platform that supports Web browsers.

Visit our web site at <http://www.LRS.com/EOM/PDDMCFWeb.htm> to try a live version of DRS Web Access software.

VPS® Systems Administration Class Scheduled for May

New VPS® users, along with users who need to catch up with the latest enhancement to the LRS® suite of Enterprise Output Management solutions, can plan to attend the VPS Systems Administration class, scheduled for May 13-14 at LRS Headquarters in Springfield, Illinois.

Taught by Systems Engineers from our Enterprise Document Engineering staff, the VPS Systems Administration class provides detailed instruction for installing popular LRS software components and configuring them for optimum performance. An afternoon reception Tuesday, May 13, offers the opportunity to talk with members of our Product Development, Product Support, EDE, and Product Marketing staffs.

The VPS System Administration Class is \$1100 for the first attendee from an organization and only \$825 for additional persons attending the same class. Register before the April 15, 2003 early bird date and receive a discounted rate of \$999 for the first attendee and \$725 for each additional attendee.

For more information about the VPS Systems Administration class, contact your marketing representative at 217-793-3800 or visit our Web site, www.vps.com.

The screenshot shows the VMCF Web Access interface. At the top, there's a navigation bar with links like 'Main | Preferences | New Window | Logout | Help'. Below that is a search bar with 'Find:' and 'Go' buttons, and a 'Commands:' dropdown menu. The main content area is titled 'VPS Printer List' and contains a table with the following data:

Member Name	LUName	VPS Name	Output Retained	Type	Status	Information	Printer Status	User Data
DEM0AN0	DEM0AN0	VPSDE00	0	TCP	Idle	0-DEM0AN0		Any Queue with Encryption
DEM0BP1	DEM0BP1	VPSDE00	0	TCP	Idle	0-DEM0BP1		BP connection to HP4100
DEM0BP2	DEM0BP2	VPSDE00	0	TCP	Idle	0-DEM0BP2		BP connection to Leasak 1522
DEM0DR5	DEM0DR5	VPSDE00	0	TCP	Idle	0-DEM0DR5		VPS to DRS Spool Transfer
DEM0LP1	DEM0LP1	VPSDE00	0	TCP	Idle	0-DEM0LP1		LFD connection to HP4100
DEM0LP2	DEM0LP2	VPSDE00	0	TCP	Idle	0-DEM0LP2		LFD connection to Leasak 1522
DEM0MAIL	DEM0MAIL	VPSDE00	0	TCP	Idle	0-DEM0MAIL		VPS/Email with Microsoft Exchange
DEM0SEC1	DEM0SEC1	VPSDE00	0	TCP	Idle	0-DEM0SEC1		Encryption Capella SecureDBM
DEM0SEC2	DEM0SEC2	VPSDE00	0	TCP	Idle	0-DEM0SEC2		Encryption Leasak PrintCaption Card
DEM0SNA	L7526	VPSDE00	0	VTAM	Idle	0-DEM0SNA		SNA connection to Leasak Optix
DEM0SDK1	DEM0SDK1	VPSDE00	0	TCP	Idle	0-DEM0SDK1		Socket connection to HP4100
DEM0SDK2	DEM0SDK2	VPSDE00	0	TCP	Idle	0-DEM0SDK2		Socket connection to Leasak 1522
DEM0VPC	DEM0VPC	VPSDE00	1	VTAM	Ever Disk	PROCENT REPORT TERM EFF=002800000024		PageControl Archive & Viewing
PR11	PR11	JES2	10	JES	Drained	C-UPAR D-LOCAL-F-01D		

Spring VPS® User Conferences

Atlanta and New York City are the locations for the Spring 2003 VPS® User Conferences hosted by LRS. This continuing series of free conferences gives VPS customers a chance to gain valuable software knowledge without exhausting their training budget.

This year's VPS User Conference will present overviews on configuring and operating VPS solutions, demonstrate the web interfaces for VMCF, DMCF, and PageCenter® software, and take a special look at securing print jobs from original platform to destination using LRS® secured output solutions.

The conferences will feature an overview of the entire DRS suite of solutions, including new benefits offered by DRS, DRS/OutputManager, and DRS/TCPIP. AnyQueue's multi-platform output

management capabilities will also be demonstrated.

Registration is required for these free conferences. Register on the Web at <http://www.LRS.com/EOM/UserMain.htm>. For more information about the Spring 2003 series of VPS User Conferences, send an email to VPSNews@LRS.com.

Conference dates and locations are:

April 1 – 2
Atlanta Marriott Marquis
Atlanta, GA

May 20 – 21
Crowne Plaza Times Square
New York, NY

LRS Offers IBM Hardware Solutions

In addition to EOM software, LRS can also provide IBM hardware solutions. As one of only 13 IBM Business Partners in the United States that are still authorized to sell IBM zSeries servers, LRS is able to market and sell the larger zSeries products and order zSeries products for our customers directly from IBM.

LRS works directly with IBM so that you get the hardware solution that best fits your business' needs. From larger enterprise level

servers to low-end zSeries (S/390) mainframes, LRS will help you customize a solution that meets your requirements and is scalable for the future. LRS' zSeries™ technical team offers expertise in configuration, installation, and support.

For more information about purchasing zSeries mainframes or other systems through LRS, please contact Kurt Repholz at 217.793.3800 x1340.

European Seminars

LRS® seminars conducted in cities across Europe and the United Kingdom are designed to meet the special needs of European organizations. Each seminar is a single day of informative presentations on a particular aspect of LRS solutions for business and government.

We will be holding seminars as follows:

May 21
Sheraton Skyline Hotel
Heathrow, UK

May 22
Arabella Sheraton Grand Hotel
Frankfurt, Germany

Each seminar is free and includes lunch. Call one of our offices to register for the seminar that is most convenient for you.

You can reach the LRS UK office by phone at 44 (0) 1242 537500, or by email at LRSUK@LRS.com. The Munich office telephone number is +49 (0)89/28 66 95-0, or send email to Munich@LRS.com.

LRS® Trade Show Schedule

SearchSAP.com Conference
April 23 – 25
London, UK

Information Security Conference
April 23 – 24
Albany, NY

2003 MortgageServ Client Conference
May 4 – 7
Sanibel Island, FL

2003 SIA Operations Conference
May 6 – 9
Boca Raton, FL

America's SAP Users' Group – ASUG
May 18 – 21
New Orleans, LA

2003 SIA Technology Management Exhibition
June 17 – 19
New York, NY

Healthcare Financial Management
Association – HFMA
June 23 – 24
Baltimore, MD

SHARE Technology Exchange
August 10 – 15
Washington, DC

Networking Solutions Technical Conference
August 25 – 29
Miami Beach, FL

XPLOR 2003
October 26 – 29
Atlanta, GA

EDUCAUSE 2003
November 4 – 7
Anaheim, CA

zSeries Expo
November 10 – 14
Las Vegas, NV

SAP TechEd '03
TBA

DFA Milks Benefits from Mainframe Report Archive

Dairy Farmers of America, a dairy marketing cooperative owned by dairy farmer members, saved more than \$150,000 a year in microfiche equipment, supplies, and maintenance costs by implementing the LRS® solution for Web browser-based viewing of system-generated reports.

Organization

Owned by its member farmers operating in 46 states, Dairy Farmers of America is the nation's largest producer-owned dairy marketing cooperative. DFA markets 29 percent of the US milk supply, approximately 50 billion pounds of milk each year.

Need

For years, DFA's chosen medium for archiving and distributing system-generated reports has been microfiche.

"We would microfiche critical reports and distribute them to our 80 office locations," Joel Clark, DFA's vice president of Information Technology, explained. "We have printers in all of our offices and we print some reports remotely. Larger reports and the ones that needed to be retained for long periods of time would be put on microfiche."

Producing and distributing microfiche requires equipment and staff; employees in remote locations need equipment to make use of microfiche. All of the equipment, including the production machine and every microfiche reader and printer, cost DFA thousands of dollars in annual maintenance and supplies. Purchasing replacements as microfiche equipment wore out cost thousands more.

In an effort to reduce archiving costs, DFA began to evaluate mainframe-based archiving systems and chose archiving products from LRS.

Solution

Installing and configuring VPS® and PageCenter® along with other LRS software was completed in a matter of days, and the

LRS solution integrated perfectly with DFA's operations. The cooperative quickly discovered that archiving reports on the mainframe for viewing instead of printing and producing microfiche would add up to substantial savings.

Results

Clark estimated that DFA is saving more than \$150,000 per year by using LRS software. The cooperative no longer needs to purchase microfiche hardware or pay for maintenance on hardware. Costs for buying and storing microfiche supplies, and mailing microfiche copies of reports, have also been eliminated.

The hard dollar savings provide a measurable return on DFA's investment. Clark said the LRS solution has also


provided a savings in time that is difficult to quantify: The time employees take just to find information they need in microfiche copies of reports.

"We have 1800 defined users in our system, and if 25 percent of those people need to access historical records, then you have 450 people getting up and getting records on microfiche. Now, with the LRS software, they don't even have to leave their desks, they can instantly pull up anything they want. That's a huge time savings that I can't even begin to quantify."

The employees who have been accessing data on microfiche work in DFA office locations, but they aren't the only ones to benefit from browser-based report viewing. As many as 300 DFA employees might be on the road at any time without access to any paper or microfiche reports. The LRS solution now enables those employees to view information they need at the time they need it.

For a copy of our CASE IN PRINT article describing the benefits Dairy Farmers of America have gained from an LRS solution, contact your marketing representative.



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Spring 2003

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