




Production Printing Solutions

LRS

Solutions for Document Delivery Throughout the Enterprise



Today, managers of production print operations need to lower costs, improve control, and reduce technological complexity in their environments. Production print operations choose LRS® Output Management solutions to gain flexible control, maximize hardware capabilities, and simplify printing and network hardware requirements.

LRS Production Printing

Levi, Ray & Shoup, Inc. (LRS) delivers Enterprise Output Management solutions that add value to production workflow. LRS® solutions offer page-level confirmed delivery and use industry-standard TCP/IP connectivity to simplify administration and reduce costs. Available for multiple platforms, LRS solutions support data stream transforms and web-based production management to ensure productivity and flexibility in producing high-volume reports and business documents.

DJDE/Metacode Data Stream Delivery

LRS production printing solutions can deliver DJDE and Metacode data streams from the enterprise server over TCP/IP networks to the DocuSP common controller. This is the only third-party solution recommended by Xerox. Organizations can optionally convert DJDE/Metacode and XES data streams into PCL, PDF, PS (PostScript), or AFP.

AFP Data Stream Processing

LRS solutions for AFP support data stream transforms and include a utility for producing AFPDS. Customers use our AFP solutions to enable efficient and accurate delivery of complex documents to production printers and servers that support IPDS, PostScript, or PCL enabled printers, or as Portable Document Format (PDF) files for use with email, web, print, or archive solutions.

A major Midwestern university implemented VPS/LCDS and AnyQueue to convert DJDE output to PostScript for delivery to remote print centers over their existing TCP/IP network.

VPS/LCDS delivers print data to AnyQueue where it converts LCDS output to PostScript and routes the converted output from the data center to each remote campus print center. Distributed AnyQueue servers receive and decrypt secured transmissions from the main data center, and deliver the data to EPS controllers in each remote location.

Using AnyQueue/WebTRAC®, operators are able to manage their remote printing operations environment from a single browser-based solution.

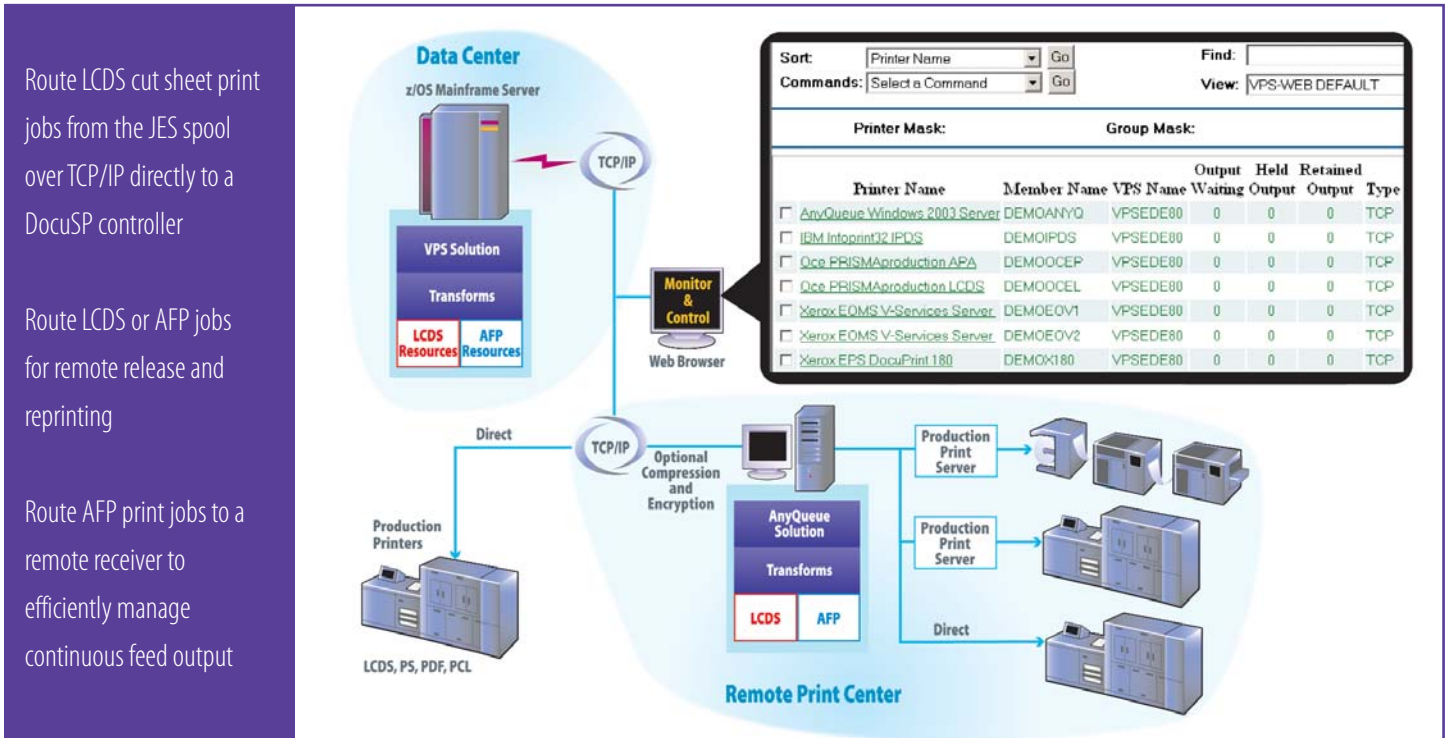
The solution quickly paid for itself and met the university's objectives, which included:

- Eliminating channel attached printers, connectivity, and operations overhead
- Migrating from older Xerox® devices to more efficient DT6115 and DT6135 DocuTech™ units
- Enabling remote management of data stream transforms and print operations
- Reducing total costs related to production output
- Establishing a foundation to eliminate impact printers and encrypt output between locations

Solutions That Fit Your Workflow

LRS specializes in output management solutions that seamlessly control both host-based and server-based processing of legacy production output (line data, LCDS, or AFPDS), as well as Windows and UNIX output. These solutions work with a variety of high-speed printers and production print servers, flexibly

processing AFP, MO:DCA-P, and LCDS requirements to address “mixed shop” operations in the data center and at remote print centers. From host-based data stream transforms to document encryption, LRS® integrated solutions enhance your production printing capabilities.



Route LCDS cut sheet print jobs from the JES spool over TCP/IP directly to a DocuSP controller

Route LCDS or AFP jobs for remote release and reprinting

Route AFP print jobs to a remote receiver to efficiently manage continuous feed output

Distributed Operations Management

Organizations use LRS solutions to manage remote printing operations, enabling print delivery, reprinting, and rerouting from any location. Distributed solutions from LRS can take advantage of direct sockets connectivity as well as data compression and encryption for secure delivery. Running on UNIX, Linux, and Windows platforms, LRS distributed solutions deliver line data, legacy DJDE/Metacode, and AFP output. They also transform LCDS, AFPDS, and other formats as needed.

Browser-based Monitor and Control

Using a standard web browser, operators can easily manage all output and destinations. The powerful monitor and control facilities provide event-based notification, redirection of print to alternate destinations, and the capability to retain and reprint output.

A leading technical support services provider upgraded their networks to TCP/IP and implemented an LRS solution to replace costly channel extenders. The organization saw VPS/TCP/IP and VPS/LCDS as a solution to address their high-speed printing needs and more efficiently manage output from their mainframe outsourcer delivered to their corporate Xerox®-based printing operation.

The solution yielded fast results. In one month, the LRS solution was installed, tested, and running in production. By eliminating monthly channel extender expense, VPS/TCP/IP and VPS/LCDS paid for themselves in just two months.

Secure Printing Solutions

Printing over a channel is one thing; sending financial statements or other sensitive print data across TCP/IP without protecting it may risk exposing that information in a clear text form. LRS® secure solutions encrypt print data on the z/OS or UNIX host and decrypt it at the server to ensure data privacy in support of regulations such as SOX 404, HIPAA, or GLB.

Vendor Recommended/Tested

LRS offers solutions to directly drive the Xerox® DocuSP® controller and family of supported printers, as well as the Xerox Office/Workgroup printer lines and color printing solutions. Organizations use our solutions to eliminate SNA channel, extended channel, and RJE/NJE connectivity hardware maintained only to support remote LCDS printing.

LRS host solutions retrieve output from JES, deliver LCDS output, provide transform solutions, and can produce AFPDS document and resource files (MO:DCA-P) as required. Organizations can route data to remote data centers using compression and encryption as required.

LRS distributed solutions receive LCDS and AFP data streams over TCP/IP and additionally offer data stream transforms. These vendor-tested solutions drive a variety of production print servers.

One of the 15 largest U.S. financial holding companies selected the LRS suite of Enterprise Output Management (EOM) products to reduce their printing infrastructure TCO and enable them to add thousands more printers to their IBM zSeries® systems.

Working with the local Xerox team, LRS provided a solution with several benefits. The solution enabled mainframe printing over TCP/IP and helped the company avoid an upgrade of their channel extender capacity, saving them nearly \$800,000. Using TCP/IP, the solution eliminated the need for channel printing hardware, saving the company more than \$130,000 in annual maintenance. The LRS solution also cut their print time from 2.5 hours down to 30 minutes when printing to their high-speed Xerox LCDS printers.

Data Stream Transforms

LRS provides end-to-end solutions for Xerox, IBM®, Adobe®, and HP data streams that meet the toughest performance and reliability requirements. Organizations can choose to convert data on the host or on distributed servers. LRS customers also benefit from receiving end-to-end support from a single vendor solely focused on output management.

Data Stream	Host-based Transforms
AFPDS	PCL, PDF, PostScript, IPDS
LCDS	AFP, PCL, PDF, PostScript
OTF	AFP, PCL, PDF, PostScript
XES	AFP

Data Stream	Server-based Transforms
AFPDS	PDF, PostScript
LCDS	AFP, PCL, PDF, PostScript
OTF	AFP, PCL, PDF, PostScript
PCL, PDF, PostScript	AFP

Find Out More

Visit us online at www.vps.com and select Solutions > Product Solutions > Production Printing or call 217.793.3800 to find out more about LRS solutions to cost effectively leverage the most from your production-printing environment.

Adding Value to Your Production Printing Workflow

Yesterday's choice of hardware should not limit an operation's future ability to process various types of output, standardize technology, or manage workflows. LRS® production printing technology augments production environments in many ways. With our solutions, you can choose to update a specific workflow aspect and always add or change your environment as your needs change and grow.

Enhance delivery	Direct TCP/IP communication to IPDS printers or LCDS printers and servers
	Employ checkpoint restart error recovery via bi-directional communication
	Guarantee printing down to the page level with PJI printers
	Decollate documents
	Automate output capture and schedule batch printing
	Provide compression and encryption for secure printing
Enable browser-based management of jobs & printers	Eliminate need to grant 3270 access to end users
	Enable users and administrators to manage printing environment securely from anywhere
	Easily redirect and reprint jobs to alternate locations
	Retain and reprint output at the z/OS or UNIX platform
	Mask and organize views by printer status or other criteria
	Provide a single point of control for all production printing
Extend investment in AFP architecture	Convert host-based AFP output to IPDS, PCL, PostScript, PDF, etc
	Route output to TCP/IP attached printers without incurring PSF charges
	Manage AFP and non-AFP printing from the same solution
	Add IPDS or other printers without updating JES parameters
	Use all IPDS tower types
Increase performance and control over DJDE/Metacode processing	Eliminate channel extenders or RJE hardware dedicated to LCDS printing
	Route LCDS print jobs directly over TCP/IP networks to the DocuSP® controller, LCDS enabled printers or print servers
	Convert DJDE/Metacode to PCL, PDF, PS (PostScript), and AFP
Facilitate distributing print operations management	Move production print operations away from JES to remote servers
	Establish a secure receiver for remote operations that supports sockets connectivity, compression, encryption, and data stream conversions for line, DJDE/Metacode, and AFP data
	Deliver and redirect output to server solutions such as DocuSP, PRISMAproduction, Infoprint® Manager, etc.
	Completely control remote production print operations from a browser
Simplify open systems output management	Establish a single point of control over output and devices used for SAP, PeopleSoft, Oracle, etc
	Support for large numbers of devices and high-volume printing
	Guarantee delivery of line data, PostScript, PCL, and PDF to destination
	Provide detailed status and accounting information for each server
	Launch custom post-processing as backend procedures



The Enterprise Output Managers

LRS has been providing Enterprise Output Management solutions that meet the evolving needs of organizations around the world. Ninety five percent of the Fortune 100 companies rely on our industry-leading software for managing and delivering their critical documents to diverse network destinations. In fact, more than thirty percent of these leading corporations have been using LRS solutions for more than two decades.

As the recognized Enterprise Output Managers, we are dedicated to constant innovation as we continue to develop the output management solutions that meet today's needs and anticipate tomorrow's demands.



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