VPSX

Robust Output Management for Distributed Printing

The VPSX® solution provides guaranteed delivery of business-critical application output. This robust, scalable print server leverages industry standards for document encryption, network device management, and application integration.

The VPSX Output Management Solution is a high-performance open systems print server that enables an organization to:

Get more from existing systems and hardware

The VPSX software takes full advantage of industry standards for network protocols, output devices, and encryption algorithms. By implementing standards like SNMP, SOAP/XML, PJL, POSIX, and PAM in a single solution, companies can fully exploit the present capabilities of their printers, servers, and applications. This open standards-based approach also protects current IT investments from becoming obsolete as future technologies emerge.

Example: A manufacturer prints from their SAP supply chain software to hundreds of remote desktop laser printers. Their VPSX solution monitors the PJL status messages from each printer and sends confirmation messages directly to the SAP users, confirming successful print status or notifying them of any print errors.

Eliminate the need for multiple, redundant printing systems

Until now, organizations have faced a difficult choice: take advantage of proprietary functions built into a given UNIX platform or settle for the limited capabilities that are supported on all UNIX versions. To avoid this compromise, many companies have implemented incompatible systems from multiple vendors – an approach that results in higher hardware, software, and personnel costs.

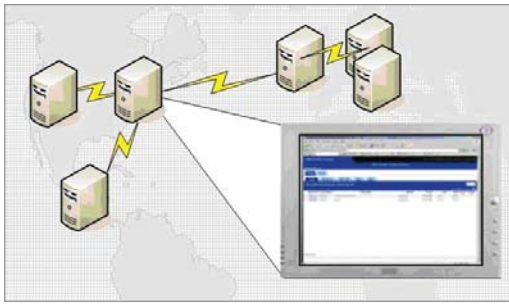
The VPSX solution replaces native spool facilities. So whether a company runs their applications on HP-UX, AIX, Sun Solaris, Linux for zSeries – or even a combination of these – the solution delivers the same high level of functionality and performance.

Increase user and help desk productivity; minimize unnecessary costs

VPSX provides a central point of control for all application output. The solution proactively monitors the status of SNMP devices, notifying users and administrators of issues before they become problems. When printing problems do occur, VPSX users can identify and resolve them through a simple, browser-based interface.

Example: Help desk staff can continuously monitor the status and availability of all VPSX printers on the network, even when they are not actively printing. The software is able to send these SNMP status messages to the web-based control interface, to the log, or both.

VPSX software monitors status messages from hundreds of printers and sends messages to end users, confirming successful print status or notifying them of any print errors.



Companies can control multiple VPSX systems running on many servers all from a single browser-based interface.

VPSX Technical Highlights

The VPSX solution provides a central point to manage all output, monitor device status, and notify users and administrators of issues before they become problems.

Scalable Enterprise Architecture

VPSX software uses a single-process/ multi-threaded design, enabling the system to drive many printers without spawning multiple CPU-intensive processes. This vertical scalability is matched by robust horizontal scalability; companies can control any number of VPSX print servers from a single web-based control interface.

VPSX Security Features

VPSX software supports 128, 192, and 256-bit AES (RIJNDAEL) encryption of print streams for delivery to a wide variety of decryption-enabled devices. Organizations can also choose to encrypt all data sent between the three VPSX components. This is especially important when the individual components run on separate UNIX machines.

Supported Platforms

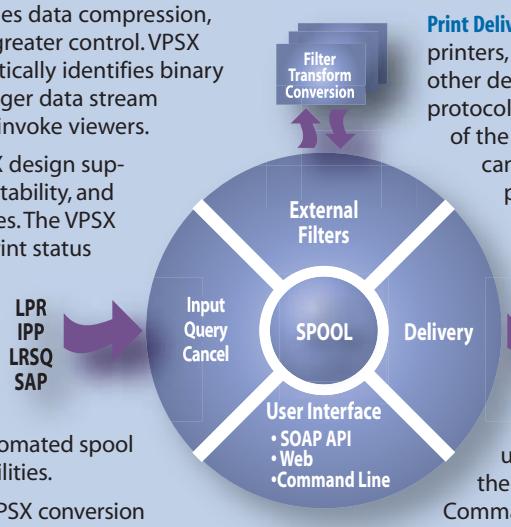
- IBM AIX
- HP-UX, Tru64
- Sun Solaris
- Linux for zSeries or Intel

VPSX Functional Component Overview:

Client Input: Applications on any platform can send output to a VPSX server using LPR and IPP clients. In addition, the powerful LRSQ command provides data compression, encryption, and greater control. VPSX software automatically identifies binary data types to trigger data stream conversion or to invoke viewers.

Spooling: The VPSX design supports scalability, stability, and high print volumes. The VPSX spool provides print status and time-based retention, printer pooling, as well as automatic error recovery. VPSX software also provides automated spool management facilities.

Conversion Filters: VPSX conversion filters can transform common data formats into an appropriate format for a given output device. The modular design ensures that any problem in an external filter or routine cannot affect stability.



Print Delivery: Output is delivered to printers, print servers, fax servers, and other devices via LPD, IPP, or Sockets protocols. Depending on the capabilities of the target device, VPSX software can provide page-level control, display detailed job and device status information, and send or receive encrypted data.

User Interface Control: VPSX administrators and users can control one or more systems via an easy to use Web interface, eliminating the need to install client software. Command line and SOAP interfaces are also available to facilitate integration with custom applications.

VPSX Features

- Extensive logging, log management, and configuration facilities
- Advanced accounting features to aid in departmental chargeback and security
- Spool management capabilities enable document queuing, retention, expiration, and printer pooling
- Communicates job and device status directly with printers using SNMP, IPP and PJL protocols
- Guaranteed printing confirmation: VPSX communicates directly with the printer using PJL to ensure each page is physically printed
- Supports scalable, cluster capable high availability environments
- Supports Internet Printing Protocol (IPP), enabling VPSX to provide output management and accounting for Windows, Unix, and other platforms
- SAP certified BC-XOM interface to handle SAP output
- Asynchronous notification of output status to SAP users
- SOAP interface to enable integration with custom applications
- Supports use of optional data stream transforms

VPSX® Support for Industry Standards

- HTML – standard browser-based interface for consistency across all computing platforms
- SOAP/XML – used to communicate between the various VPSX components.
- PJL, IPP & SNMP – protocols used to communicate real-time status of output devices
- PAM – security interface that works with an organization's existing user authentication modules
- W3C Extended Log Format – this standardized format facilitates analysis of VPSX data using standard tools

Call us at 217-793-3800 or email us at VPSXdemo@LRS.com to learn more about VPSX.