

Secured Output Distribution

LRS



from

Levi, Ray &
Shoup, Inc.

The Enterprise Output Managers

The Need: Secure Output Distribution Over the Internet

The Internet, with its global reach, has provided numerous benefits for organizations: Internet capabilities have facilitated communications with customers, suppliers, partners, and employees. Now that TCP/IP and Internet support are standard features of desktop computers and workgroup printers, many organizations are now weighing the possibility of using the Internet as a vehicle for distributing output to remote locations.

The obvious drawback to distributing output over the Internet is its openness. Data flowing across the Internet is accessible to anyone who wants to see it, whether they are the intended recipients or not. Not only that, but the Internet's collection of switches and routers have been known to send data packets to the wrong IP address; that's bad enough when it happens to a personal email message but disastrous if it happens to a mainframe print job.

To use the Internet for output distribution with confidence, organizations need a dependable way to encrypt print jobs at their source so the jobs can be decrypted only by the intended recipient—whether that recipient is a printer, server, or an OS/390 host.

LRS Solution: Secured Output Distribution

The LRS solution is Secured Output Distribution, a suite of products that encrypt and decrypt output data streams to keep them secure.

VPS/Secure™ retrieves output from the JES spool, encrypts it, and routes it via TCP/IP to a printer equipped with the necessary decryption hardware, AnyQueue/Secure, or DRS/Secure. VPS/Secure enables the user to specify the decryption key, key length, and block length.

AnyQueue/Secure™ decrypts output received from VPS/Secure via TCP/IP before routing that output to the appropriate LAN destination. The combination of VPS/Secure and AnyQueue/Secure maintains host-to-LAN security without installing decryption hardware on every network printer. AnyQueue/Secure can also encrypt print jobs before routing them to DRS/Secure or a decryption capable printer.

DRS/Secure™ receives and decrypts encrypted output sent via TCP/IP from VPS/Secure and AnyQueue/Secure and writes the output to the JES spool.



Advanced Encryption Standard

The LRS Secured Output Distribution solution uses the Rijndael encryption algorithm, which has been selected by the National Institute of Science and Technology (NIST) as the Advanced Encryption Standard (AES).

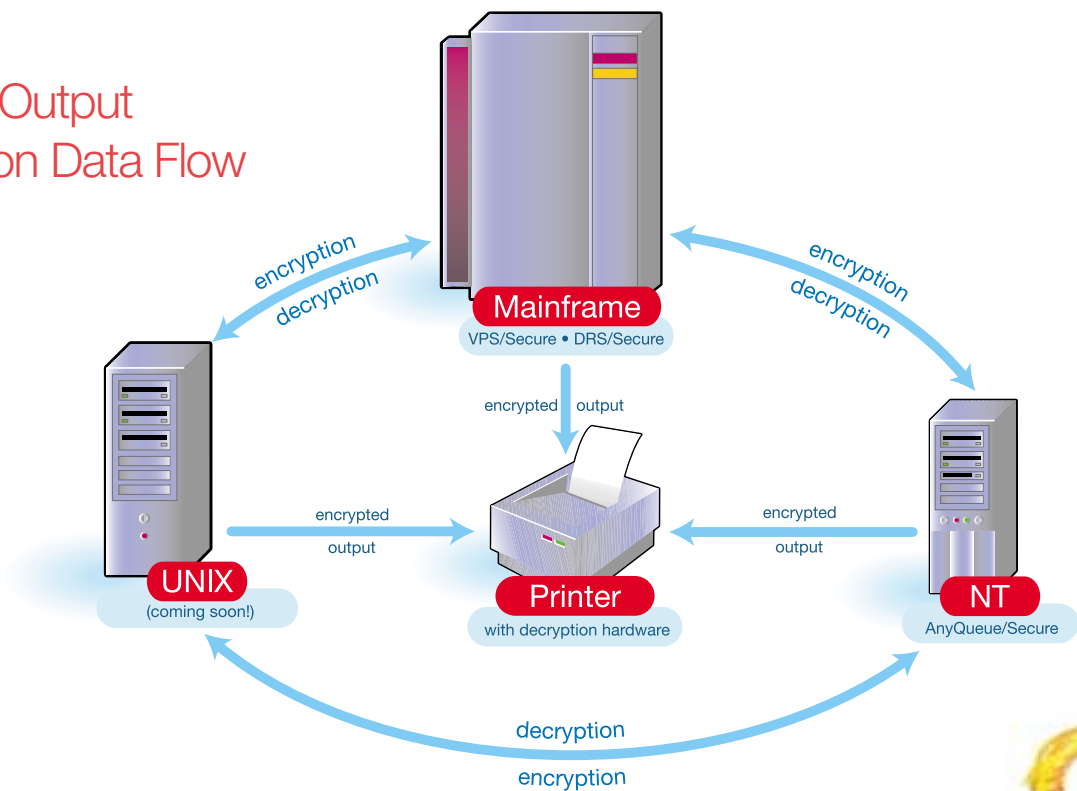
Rijndael offers many performance and security advantages, including the flexibility of variable key length. In addition, Rijndael requires very little memory compared to other available algorithms and provides excellent performance.

Hardware Decryption

Printers receiving encrypted output routed by VPS/Secure or AnyQueue/Secure must be equipped with appropriate decryption hardware. Otherwise, the hard copy they produce will be unreadable.

Our Secured Output Distribution products are compatible with a number of decryption cards currently on the market for selected network printers. As we proceed with product development, we will continue to work with printer manufacturers and other vendors to provide a range of solutions to meet your organization's needs for transmitting secured output.

Secured Output Distribution Data Flow



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Since 1981, LRS® has been improving Enterprise Output Management in more than half of the Fortune 500 and Fortune 500 Service companies. The leading solution for distributing OS/390 host output, VPS and its extension products are found in the majority of North American OS/390 host sites.

LRS is dedicated to raising the awareness and profile of output management throughout your organization. We believe Enterprise Output Management should be a strategic, company-wide focus, with resource maximization, standardization, and efficient management as its objectives.



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LRS software products are available worldwide through selected distributors.
Information available on the Web: <http://www/LRS.com/EOM/distributors.htm>

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