



documentsciences

Output Management Solutions

Efficient Distribution of Electronic and Print Output

Output Management

Document Sciences offers a complete Output Management strategy that improves e-mail and archiving efficiency, and reduces overall printing and distribution expenses. The Output Management solution includes:

- Output Processing, an efficient engine for streamlining individual documents in a multi-document stream
- Electronic and Print Emitter tools for document delivery, that support industry-standard archive solutions.

A Powerful and Integrated Output Processing Engine

At the center of the Output Management system, the Output Processing engine efficiently manipulates CompuSet®-generated document streams to support a variety of finishing, printing, mailing, and electronic distribution needs. Output can be generated for a single output device, or a combination, including high-speed electronic printers, distributed printers, and proofing devices, e-mail, fax, and electronic archival systems. The Output Processing engine supports Document Library Services™ (DLS), Visual CompuSet *Professional Edition*™ (VC Pro) and VisualCompuSet, providing organizations with the ultimate in flexibility and integration.

Versatile Electronic and Print Emitter Tools

The Output Management solution includes tools for transforming composed documents to formats that meet both electronic and print requirements. For electronic delivery and archiving via industry standard archive systems, Document Sciences' PDF Emitter delivers CompuSet composed documents using Adobe®'s Portable Document Format (PDF).

For print delivery, Document Sciences' Print Emitter tools transform documents into a variety of print formats. These Emitters support black and white, highlight color, and full color printers, and the following Printer Description Languages (PDL): PostScript®, AFP™, and Metacode®.

VIPP and VPS Support

Document Sciences' PostScript Emitter includes enhanced support for Creo®'s Variable Print Specification (VPS), which reduces RIP processing time by storing repeated document components such as photographs, logos, graphics, and text on a Creo color print server, and processing them in advance.

Autograph also supports Xerox®'s Variable Data Intelligent PostScript PrintWare (VIPP) in the PostScript Emitter. VIPP provides enhanced variable data printing performance through the use of cached object elements and workflow improvements to drive full color at production speeds.

With a choice of either VPS or VIPP, Document Sciences customers can realize a number of benefits:

- Driving full-color, high quality output at printer rated speeds
- Reducing document production time and decreasing time to market
- Reducing color print costs per page
- Enhancing ROI from producing high value, full-color documents

The following example demonstrates how VPS or VIPP can improve a PostScript application:

Full Color PostScript Document Size	With VPS Enablement	VPS % Improvement	With VIPP Enablement	VIPP % Improvement
1000 pages, 838MB, 44.2 minutes RIP time	1000 pages, 9.85MB, 8.43 minutes RIP time	8500% in file size, 524% in RIP time	1000 pages, 10.28MB, 6.28 minutes RIP time	8152% in file size, 704% in RIP time

Key Features and Benefits of Output Management:

Output Processing

- Assembly of a document once, and delivery of the appropriate content to multiple recipients, reduce operational costs
- Intuitive user interface allows document designers to match recipients with specific content, reducing IT costs and decreasing time to market
- Seamless support for PostNet, 2 of 5, 3 of 9, Code 128, PDF 417, and OMR barcodes reduces costs by simplifying the finishing process
- Integration of sort, split, and merge function into output process, eliminates costs of custom solutions
- Splitting large multi-document streams into individual outputs, improves speed of e-mailing and archiving
- Integration with backend finishing equipment increases cross-marketing opportunities, and speed of electronic or print output

Emitters

- Versatile print formats including PostScript, AFP, Metacode, VIPP and VPS increase flexibility to meet print delivery needs
- Effective electronic delivery via PDF Emitter, provides easy viewing to anyone with Adobe® Acrobat® Reader
- Full support of archival systems including FileNet® Panagon™, IBM Content Manager OnDemand®, and Optical Image Technology, increases flexibility

Operating Requirements

Output Processing

Recommended Configuration

- Intel® Pentium® III processor, 866 MHz
- 512 MB of RAM
- Parallel or USB port required
- 20-40 MB of available hard disk space, 3-4 GB of application storage space

Microsoft® Windows

- 2000 Professional, 2000 Server, 2003 Server or XP Professional or

UNIX®

- HP® UNIX® v11.0 or v11i
- IBM® AIX® v5.1, v5.2 or v5.3
- Sun® Solaris™ v8.0 or v9.0

IBM® z/OS®

- v1.3, v1.4, v1.5 or v1.6

Supported Output

Full Color

- Xerox® Variable Data Intelligent PostScript PrintWare (VIPP)
- Creo® Variable Print Specification (VPS)
- AFP™ Emitter
- PDF Emitter
- PostScript Emitter

Black and White/ Highlight Color

- Xerox® Variable Data Intelligent PostScript PrintWare (VIPP)
- AFP™ Emitter
- Metacode Emitter
- PDF Emitter
- PostScript Emitter

Supported Printers

Full Color Printers

- IBM®
 - Infoprint® Color 70, 100, and 130
- Xerox®
 - DocuColor® iGen3, 2060, 3535 and 6060

Black and White & Highlight Color Printers

- HP®
 - HP® LaserJet III, 4, and 5
- IBM®
 - Infoprint 2000, 4000, and 4000 with HCF
- Earlier IBM Models:
 - 3130, 3160
 - 38XX
 - 39XX
 - 4019, 4028, 4029, 4039

Xerox

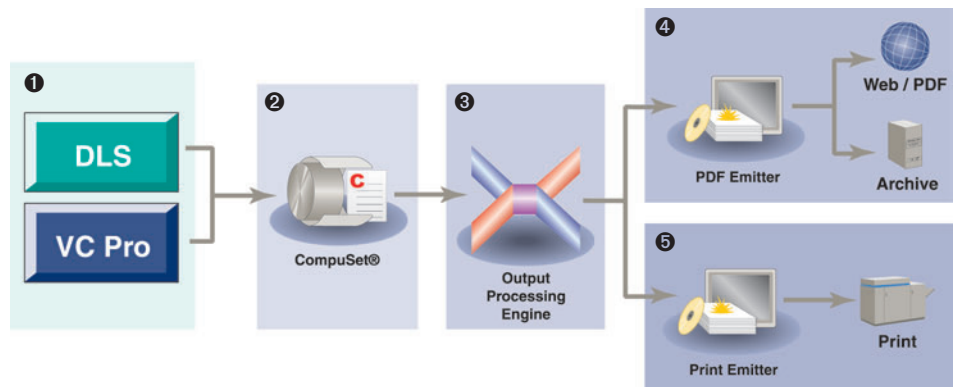
- All DocuPrint® NPS printers:
 - 180 NPS
 - 4050, 4090 NPS
 - 4635, 4650 NPS
 - 4850 NPS (350-HC)
 - 4890 NPS (390-HC)
 - 8700, 8790
 - 9700, 9790
- Earlier DocuTech® models:
 - DocuTech® 90, 135, and 390
- All DocuTech® printers with a DocuSP® controller:
 - DocuTech® 2000 Series 61XX
 - DocuTech® 2000 Series 65
 - VIPP-Enabled PostScript Printers
 - DocuColor® iGen3
 - DocuColor® 6060
 - DocuPrint® 65, 75, 92C, 96, 115, 180, 4050, 4090, 4850, and 4890
 - DocuPrint® 155 EPS and 180 EPS
 - DocuTech® 61XX, 65, and 75
 - DocuPrint® N-series, including the NC60
 - Xerox® Phaser 780, 850, and 7700

Other Printer Models

Document Sciences output also prints successfully on other manufacturers' equipment:

- Most PSF-compatible AFP printers
- Most PostScript printers

Components and Compatibility



1 Output Management tools are fully integrated with Document Sciences' DLS and VC Pro solutions. The document owner specifies recipient content during the design phase.

Recipients are identified in user-friendly terms such as owner, agent, and archive. Data required for backend processing (i.e., sorting or archive indexing) is identified and "passed through" to Document Sciences' composition engine, CompuSet.

2 CompuSet performs page layout and composition interfacing with the Output Processing engine to provide page count, package size, and other post-composition information. This interface provides the ability to assemble and compose a stream of input once, and produce a variety of

output streams, reducing processing time and costs.

3 The Output Processing Engine, working in concert with both the Print and PDF Emitters, enables post-composition stream manipulation. Features include sorting, splitting, merging, barcoding - all accomplished conditionally, facilitating a completely integrated solution.

4 The PDF Emitter enables both electronic delivery and archiving to a variety of industry standard archive solutions, as well as the industry accepted archive format, using the Adobe Portable Document Format (PDF). Standard PDF features include bookmarks and hyperlinks as well as flate compression.

5 A variety of Print Emitters allow a site to direct output to

virtually any production printer including black and white, highlight color and full color. Available emitters include PostScript®, AFP™, and Metacode®.

The PostScript Print Emitter supports VPS and VIPP processing standards, enabling an organization to realize significant reductions in file size and RIP processing time. For instance, under VPS, a 1000-page full color PostScript document with a file size of 838 MB and RIP time of 44.2 minutes is reduced to 9.85 MB with a RIP time of 8.43 minutes - an improvement of 8500% in file size and 524% in RIP time. Under VIPP, the same document is reduced to 10.28 MB with a RIP time of 6.28 minutes, a reduction of 8152% and 704% respectively.

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