SCREEN.
ADVANCING THE FUTURE OF PRINT

Trueflownet

Trueflow 3
A fully JDF-compliant PDF workflow system

WORKFLOW

Trueflow 3

Trueflow 3, a fully JDF-compliant PDF workflow system is the core of Trueflownet, Screen's latest innovative JDF-based business solution. Featuring the latest JDF and PDF technology, Trueflow 3 is designed to drive both computer-to plate (CTP) production and digital printing presses efficiently. In addition, Trueflow 3 manages JDF-based operating environments for seamless communication between Management Information System (MIS), Prepress, Press, and Postpress operations. Trueflow 3 makes it easy for you to create a fully JDF-enabled end-to-end print production management workflow.

Trueflow 3 provides flexible and highly automated CTP and digital printing press production, using JDF-based Job tickets. It integrates everything from incoming job handling to prepress, proofing, and the output for CTP. It also makes it possible for you to build an advanced process automation workflow that encompasses the entire print production workflow, from MIS to press and postpress processing.

An optimized CTP workflow solution

In addition to meeting all the requirements of your CTP workflow, the new and more powerful Trueflow 3 enables seamless process automation and custom workflows in a JDF-enabled operation environment. Its prepress workflow offers even more intelligent automation, with better flexibility and efficient workflow operation path management. Trueflow 3 supports the latest file formats, and has a new color management system using advanced artificial intelligence, enhancing the conversion of RGB images for CMYK workflows. A new drag and drop graphical user interface (GUI) makes Trueflow 3 easy to learn and simple to use.

Upgrade to the full Trueflow 3 JDF-based workflow

If you use Trueflow already, Trueflow 3 makes it easy for you to move from a PDF and PostScript workflow into a JDF-based environment.
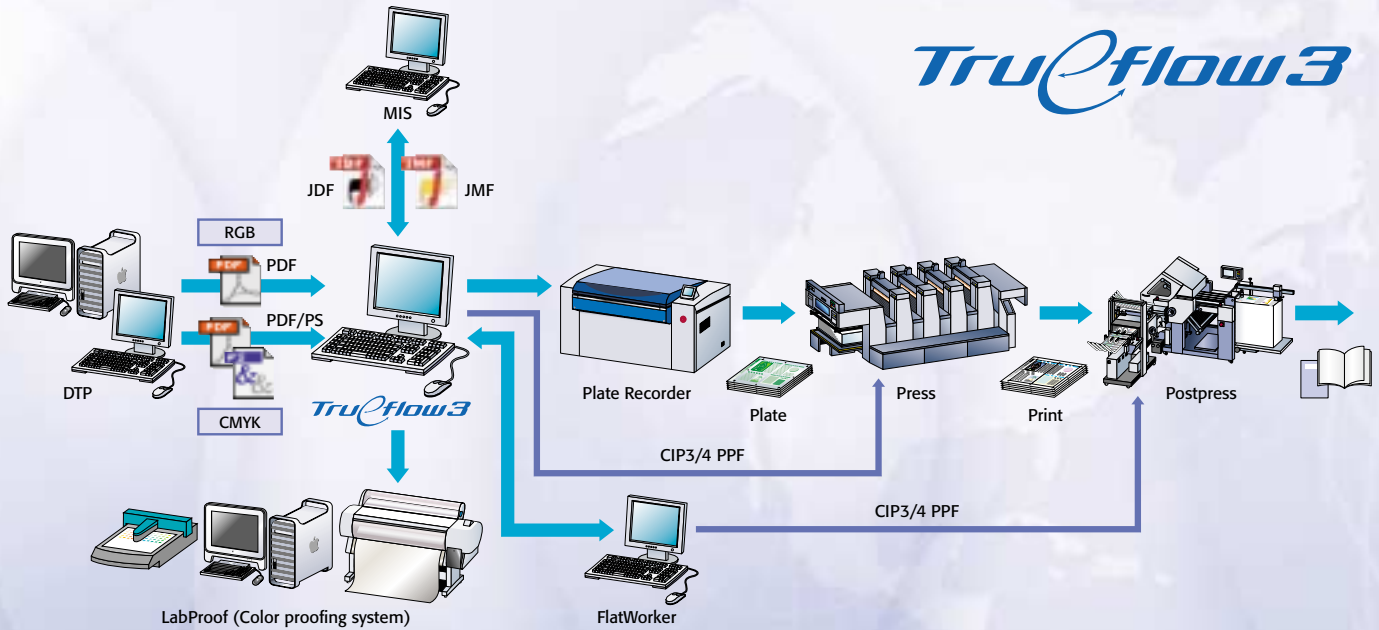
Trueflow 3

A fully JDF-compliant PDF workflow system

Not only does Trueflow 3 allow communications between JDF-enabled devices and systems with its JDF-based job tickets, it also offers preflight checking and trapping, within Screen's acclaimed late-binding workflow. Trueflow 3 also assures reliable file handling through the use of Outline PDF and PDF/X files, which are becoming the standard for multi-site and networked operations.

Scalable workflow for CTP and print production with JDF

Trueflow 3 is the core of Screen's latest innovative JDF-based business solutions, which manage and drive automation in a print related environment and enable two-way communication in a JDF environment. Featuring JDF-based job tickets, Trueflow 3 provides process automation throughout the production process, from job data receipt and preflight to automated prepress, imposition, PDF RIP'ing, and the output of print-job files for proofers, imagesetters, and platesetters—and with the aid of a JDF-enabled MIS, it can even drive JDF-enabled printing presses and post-press equipment. Trueflow 3 can generate JDF automatic processing job tickets based on information from a JDF-enabled MIS job ordering system, and feed job status and processing results back to the MIS. Trueflow 3 also collects valuable information that will help you redefine your production process and increase profits. It has the scalability to support a wide range of JDF-based file formats, such as imposition JDF data, and maximizes interoperability with other JDF-enabled press and post-press systems.

Networked CTP workflow production

Trueflow 3 is an open system designed for today's networked production environments. It runs on the Windows Server platform, and its license-free client system allows Trueflow 3 clients to operate on any network platform. Trueflow 3 incorporates the latest Adobe PDF interpreter, and can accept standard PDF 1.4/1.5 and PostScript data files, as well as supporting JDF ticket based workflow technologies for automated production. Trueflow 3 automation for output-ready jobs covers every step of your production workflow, including preflight, overprint, automated trapping, imposition, multiple format output, and CIP3 PPF/CIP4 JDF.

• User-friendly "job-flow" visual operator interface

Wide range of file formats supported

Trueflow 3 accepts standard PDF data files such as PDF/X1-a, PDF/X-3, Certified PDF, and PostScript 3 files. Print-job files can even be output across a network, and Trueflow's Outline PDF and 1-bit TIFF files offer reliable data transfer for output through proofers, imagesetters, and platesetters at remote sites.

User-friendly "job-flow" visual operator interface

Trueflow 3 features an extremely user-friendly graphical user interface and puts everything just a click of the mouse away. Job files are presented in an easy-to-grasp, graphical form, and a variety of new features significantly increase operating efficiency. The drag and drop "job-flow" style interface design makes it easy to create the desired processing workflow. Simply drag icons representing process steps from the list on the left side of the screen and drop them onto the job tickets. Intuitive pop-up menus simplify navigation through multiple menu layers.

Operating efficiency user interface

Double-clicking on a process icon in the icon preview window automatically launches the appropriate application, where you can check status or edit instructions for the job. Multiple pop-up menus help you navigate between different applications. Trueflow 3 also features an online help function and can also display brief explanations of template settings at the bottom of the client application computer screen when operators are setting rules for job tickets, without going to the server computer.

Automated prepress production workflow

Trueflow 3 can automate much of the prepress workflow, and features optional preflight processing (based on the PitStop Preflight Profile), color conversion, automated trapping, imposition, and spot color margins.

Auto-trap and interactive trapping

Integrated automated trapping is a standard feature for Trueflow 3. Trueflow's Auto-trap handles object trapping, overprinting, centerline luminosity, kickback, and guaranteed color registration. Files are trapped using the parameters defined in the Auto-trap template. These include special trap settings for spot colors and kickbacks. A screen preview simulation of trapped results is available, and text-to-image and tint-to-image settings can be specified. For users with specialized trapping needs Trueflow's optional TrapEditor software offers trap editing features, including quick and easy control of detailed trap settings for elements, multiple text size trapping and image-to-image trapping.

Easy plate imposition

Trueflow 3 offers a plate imposition function specifically for CTP workflows. This function features an easy-to-use visual operator interface for plate, paper, and file positioning that makes it easy to set and edit plate signature settings for an imposition template, or to create output ready signature files for platesetters and proofers. The fully supported plate imposition function features a wide range of imposition template editing tools, color control bars, and register marks. It allows you to edit the plate layout plan so you can lay out multiple jobs on a single film or plate, and supports on-screen previewing of the plate layout, including printer's marks.

Edit plate settings include:
For plate: Plate size, center offset, and grip width.
For paper: Paper size, base point of grip, and grip width.
For finishing: Place target (plate or paper), base point of grip, and origin.

The plate size, paper size, gripper margin, and plate margin information in the signature pattern files created by the plate imposition function can be changed at a client computer. (Page size editing will soon be available as well.)

Spot color merge and filtering

You can merge spot colors simply by choosing the colors to merge from the registry's color list and then re-importing the file. This is a useful function in cases where the spot color names used in Illustrator and QuarkXPress, for example, are different, but the color is actually the same. With the spot color merge function, you can merge the two colors and output them on the same plate.

• Operating efficiency user interface

• Auto-trap and interactive trapping
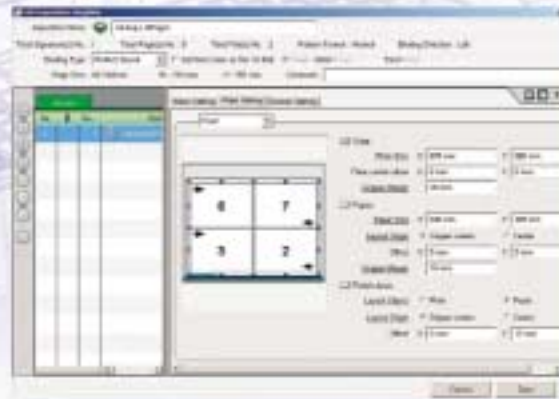
• Easy plate imposition


• Flexible spot color merge

JDF-based
automated workflow and flexible late-binding function

Trueflow 3 offers two different automated workflow paths that use JDF technology: Hot folder and Job-container. These automated workflow paths provide customized automated processing for everything from initial input to final output. Trueflow 3 also features a Job workflow path for jobs with a large number of pages, which enables output processing while keeping track of multiple folds and pages. The flexible Job workflow path is late binding, and has the advantage of allowing last-minute corrections by the page.

Hot folder workflow path

For output-ready jobs, Trueflow 3 uses a fully automated workflow involving intuitive job tickets and hot folders. You can use Trueflow's hot folders to create fully automated custom workflow paths. After the folders are created, you simply drag and drop a job file into the appropriate hot folder; the remaining steps through output are carried out automatically.
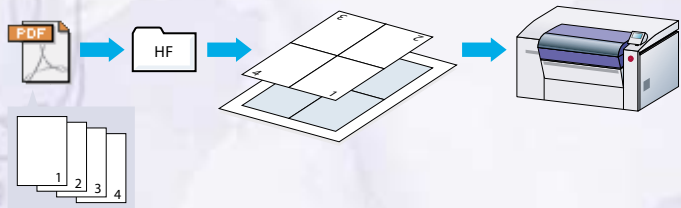
Job-container workflow path

The Job-container hot folder workflow path is a flexible automated workflow that can process PostScript or PDF data for pages as they arrive, even if some of the pages are missing or out of order. If some pages are likely to arrive late, this intelligent Job-container workflow path is probably your best choice. It enables automated parallel processing of a large number of multiple-page and page-independent late-binding files in an output-ready signature. The Job-container workflow helps eliminate delays and assures consistent productivity for plate output ready jobs.
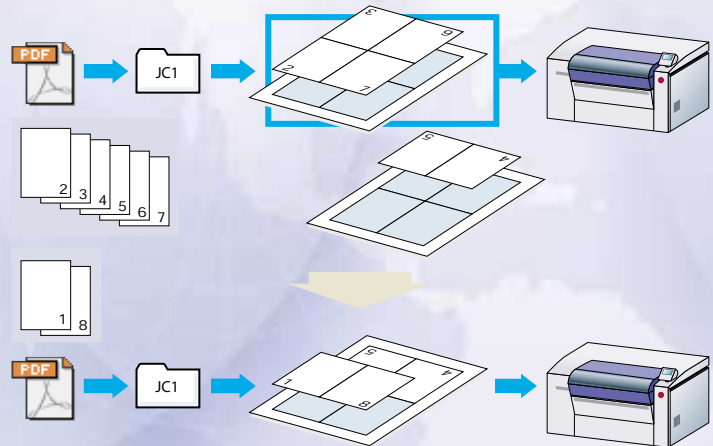
Flexible Job workflow path

If you use the Job workflow path, when you enter a signature number in a PostScript or PDF file name, Trueflow 3 automatically assigns the resulting pages to that signature. The Job workflow path also gives you the flexibility to insert blank sheets and numbers. Trueflow 3 offers Late Binding Technology, allowing users to change the signature after data has been initially assigned, or process the job using a different workflow ticket from the one originally selected. With this workflow option, you can even use separate workflow tickets to process different pages or signatures. The Job workflow path provides uniquely flexible late-binding functionality and enables true last-minute page replacement. Changes can be made to any one page without affecting the other pages. It's also easy to add in new pages that arrive late. This workflow, which is made possible by Trueflow's superior job recorder and page RIP functions, eliminates delays and assures jobs are ready for prompt plate output. Trueflow 3 also offers a hot folder copy function that makes it easy to reproduce the workflow tickets in a hot folder and eliminates the need to create tickets in advance. Trueflow 3 can also include separate proofing and plate output imposition processing settings in a single workflow ticket. You can even make settings so that a workflow ticket that includes imposition settings automatically outputs the job signatures to a proofer once the page data is received.
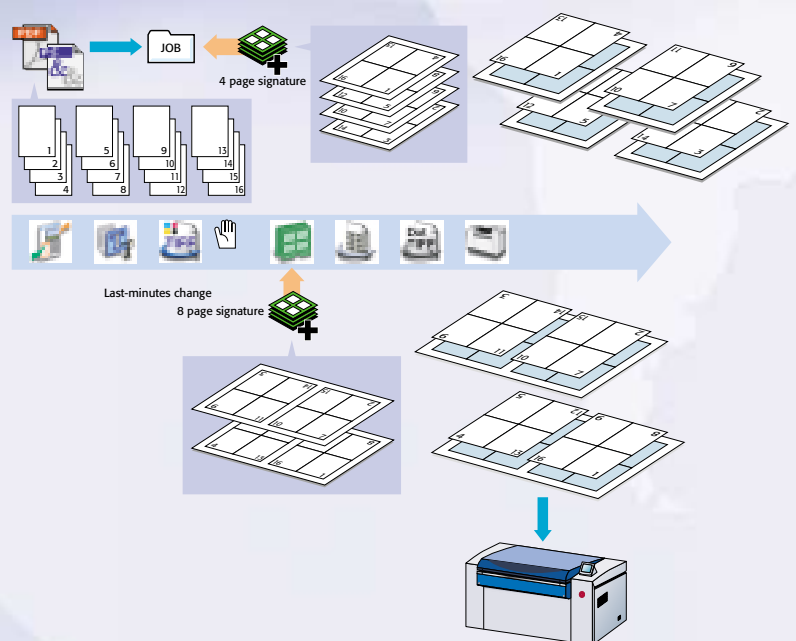
E-mail notification

The e-mail notification function uses the mail server to notify you whenever a specific process is completed or if an error occurs. Notification for a single process in a given workflow can be sent to up to three different e-mail addresses. This function increases efficiency by assuring that the proper people know the status of a given job at all times. Trueflow 3 also offers a truly unique feature: e-mail notification of job progress for remote operators.

Keep intermediate data

In the past, when processing was carried out using a hot folder, as soon as output was complete, all the intermediate data generated during processing was automatically deleted. With Trueflow 3, unless you set a trash icon as the last workflow icon, intermediate files are not deleted. You can use the intermediate data to make changes with TrapEditor, or switch out pages and output the job again. If you add an export icon to the workflow, you can set the hot folder to automatically export the intermediate files to the file server of your choice. The exported data is imported to the progress window, where you can easily output it again.
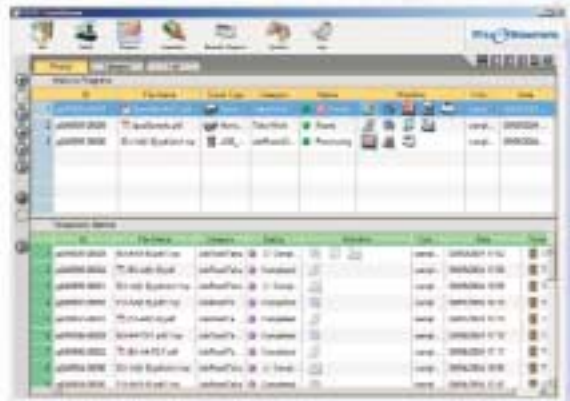
Real-time job progress monitoring and editing page data

Job progress can be monitored in real time in a networked environment. It's easy to tell job status for pages being processed or jobs awaiting data at a glance—yellow indicates processing is in progress, while green indicates processing is finished. When you double click on the thumbnail icon for a page that is stopped or for which processing is complete, the launch menu is displayed, and you can edit the job as desired, merging spot colors or using TrapEditor, DotTiffView, or FlatWorker, for example. You can even switch pages or send a job to a recorder for output again, or check the details of an error.

• E-mail notification

• Real-time job progress monitoring and editing page data

Polished Input

Recorder

Polished Input

Outline PDF

PDF/X-1a
(CMYK high resolution)

PDF/X-3
(RGB high resolution)

Down sample RGB
(RGB low resolution)
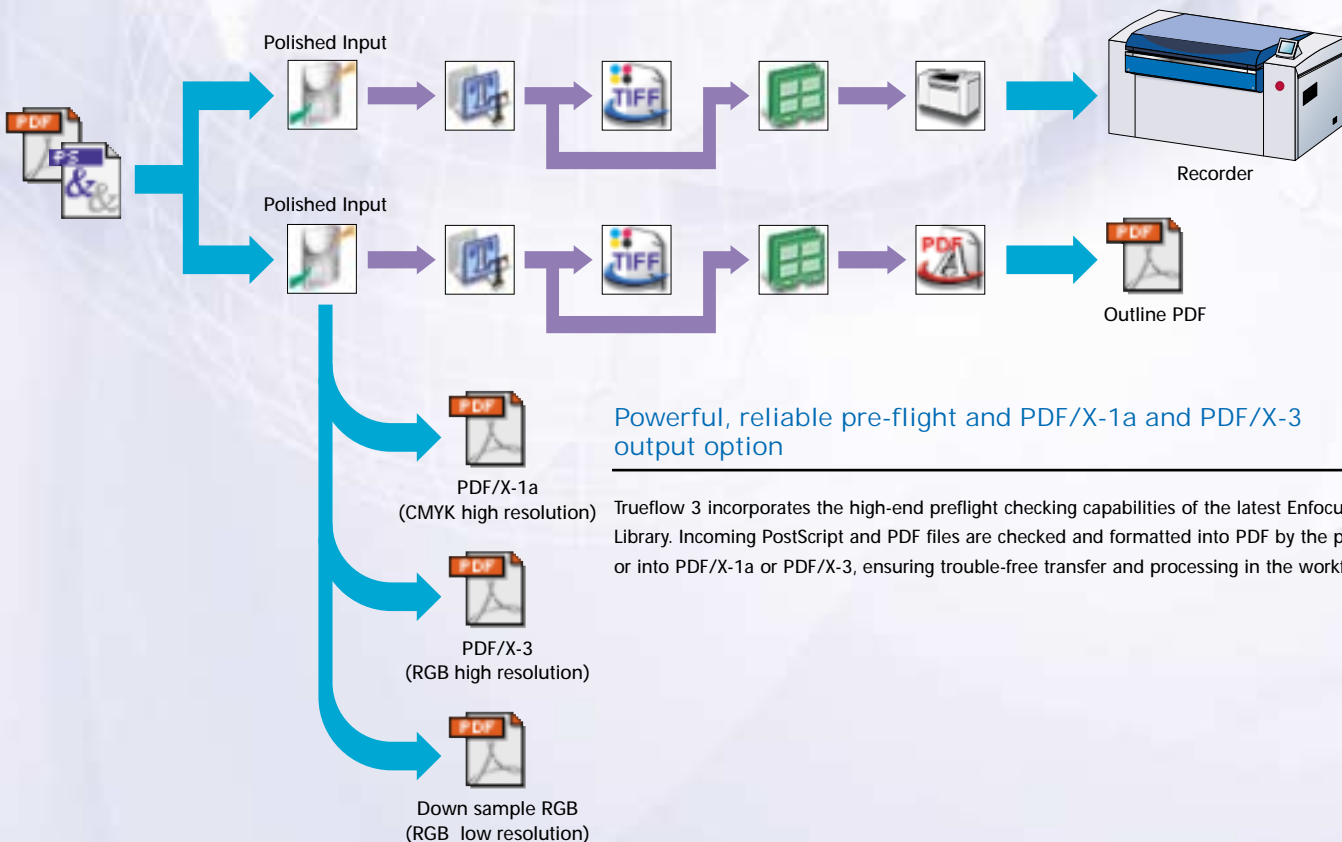
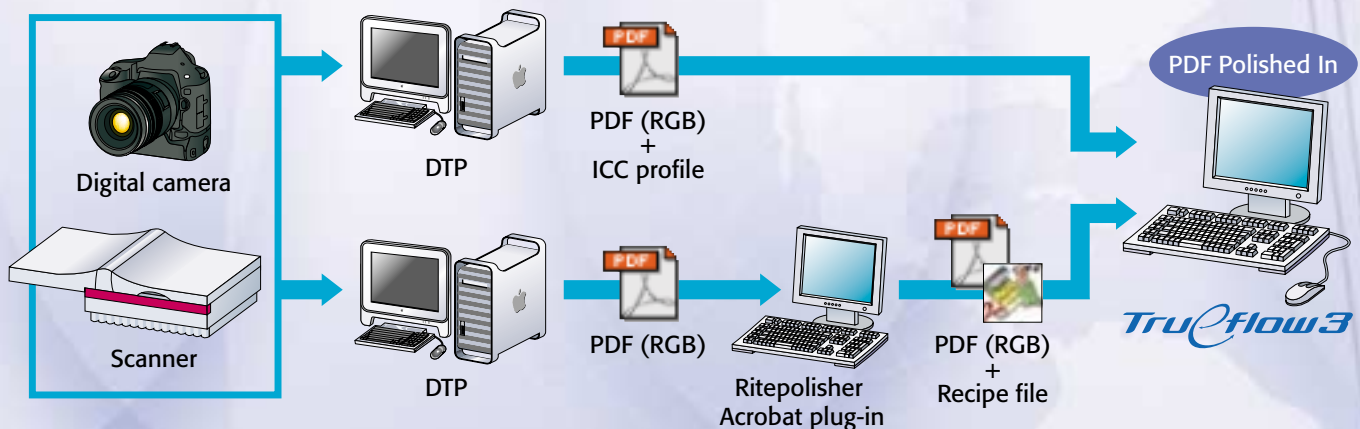## Powerful, reliable pre-flight and PDF/X-1a and PDF/X-3 output option

Trueflow 3 incorporates the high-end preflight checking capabilities of the latest Enfocus Library. Incoming PostScript and PDF files are checked and formatted into PDF by the page, or into PDF/X-1a or PDF/X-3, ensuring trouble-free transfer and processing in the workflow.

An advanced RGB workflow
that would make a high-end scanner proud

Trueflow 3 now features intelligent image quality management options made possible by the acclaimed ColorGenius DC color conversion engine featured in the high-end Cézanne scanner. While you are working on the job, the images in the PDF are displayed in vivid RGB and handled with their industry standard ICC profiles and an additional recipe file (setup file) that contains magnification, sharpness, and tone data. Then, just before output, the remarkable color conversion engine automatically converts the RGB data to CMYK of a quality that rivals what an experienced operator could produce. The end result is higher print quality for you and your customers.

The Ritepolisher Acrobat 6 plug-in supports the Trueflow RGB workflow. Simply specify the appropriate recipe file for each RGB image in the PDF to get the CMYK finish you desire. Even if PDF files containing RGB images come in, there is no need to return the images to the original layout software before switching to the final images for output. Since the workflow is designed to use RGB data, the quality and rich tones of the RGB images are preserved, and productivity as a whole increases. You can set Trueflow 3 to convert RGB/CMYK/Gray/Lab to CMYK/Gray/RGB, or embed a profile in the files. You can even set different profiles for images, text, and solid areas.

Digital camera · Scanner · DTP · PDF (RGB) + ICC profile · PDF (RGB) · Ritepolisher Acrobat plug-in · PDF (RGB) + Recipe file · PDF Polished In · Trueflow3

Powerful and flexible Archive solution

Trueflow ArchiveManager 3.0 is a powerful and flexible archive system designed specifically for Trueflow. This easy to-use software integrates with Trueflow 3 to provide flexible storage of completed jobs, as well as efficient search, retrieval, and restoration. Trueflow ArchiveManager complements Trueflow by archiving Trueflow jobs, including PostScript, PDF, Dot TIFF, and EPS files, as well as Trueflow's templates and signatures. It also supports specific Trueflow features such as Job color coding and image file previewing. Trueflow ArchiveManager 3 gives you the peace of mind that comes from reliable backup, without affecting system performance.

High-quality screening library and multi-screening support

Trueflow 3 supports Screen's extensive screening library, including the innovative Spekta 2 AM/FM hybrid screening, high-quality FM Randot X screening, and AM high frequency screening. This complete screening library offers printers the ultimate in choice, quality, and reliability. Screen's unique multi-screening settings support, a software option, helps you improve quality and add value to your product. It can be applied to every kind of object, from images and text to solid backgrounds, decorative lines, outline characters, and diagonal screened lines. You can select a different kind of screening as appropriate for different objects within a single page, which makes it easy to eliminate moiré or give certain parts of the page different finishes.
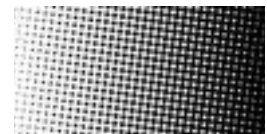
Spekta 2 Hybrid screening

Randot X FM screening

AM screening

Spektacolor

With Spektacolor, the spot color specifications in the job file received are color converted to a CMYK + Spot Color inkset (maximum 8 colors). The combination of this color conversion technology and high-frequency screening creates tone reproduction that is similar to that achieved when spot color inks are used. Overruns, ink consumption, make-ready and cleaning times can be reduced or eliminated when spot color inks are reduced to a simple color set of CMYK + Spot Colors inkset (maximum 8 colors). What's more, there's no need for the designer to worry about printing conditions; designers can simply select and specify spot colors for the image as desired.

Spektacolor converts the RGB specifications in the data received to a CMYK + Spot Color inkset (maximum eight colors). Two to four spot colors can be added to the traditional CMYK color set to ensure high-quality output of colors that are difficult to reproduce using the four CMYK colors alone. CMYK + Spot Color inksets provide vivid color with a terrific visual impact, and are indispensable for package design - especially since the visual impression made by a product's packaging is so critical to sales results.

Multi remote-site operations

With Trueflow 3, you can create quality-assured screened Outline PDF, Dot TIFF, or PDF/X-1a files for delivery to a remote site for proofing or output. Trueflow 3 features several modules that can enhance remote operations, such as Trueflow 3 FlatRunner, which functions as an output station for Trueflow, and Trueflow Dot Tiff Controller (DTC), which can accept Dot TIFF files and send them to the desired output device.
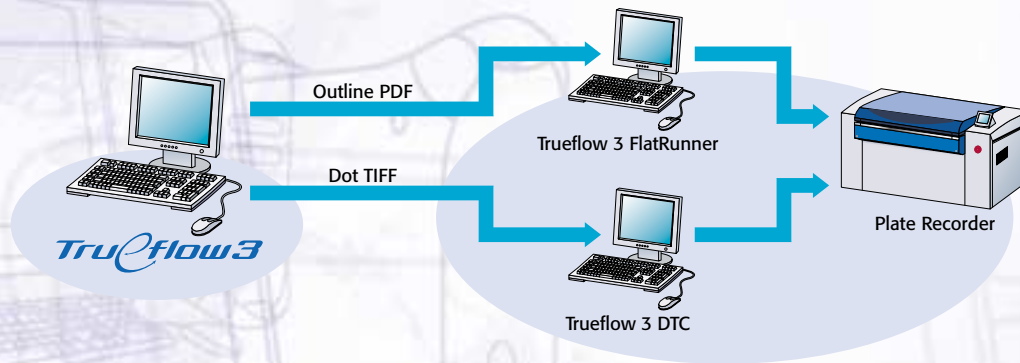
Working with MIS

Since Trueflow is connected to your MIS, it can automatically generate Job tickets using JDF Job ticket data (containing processing instructions) from the production office. This assures correct transmission of information between the various production processes to enable a seamless and efficient workflow. Not only does this eliminate errors but it keeps the production staff up to date on the status of each job in production.
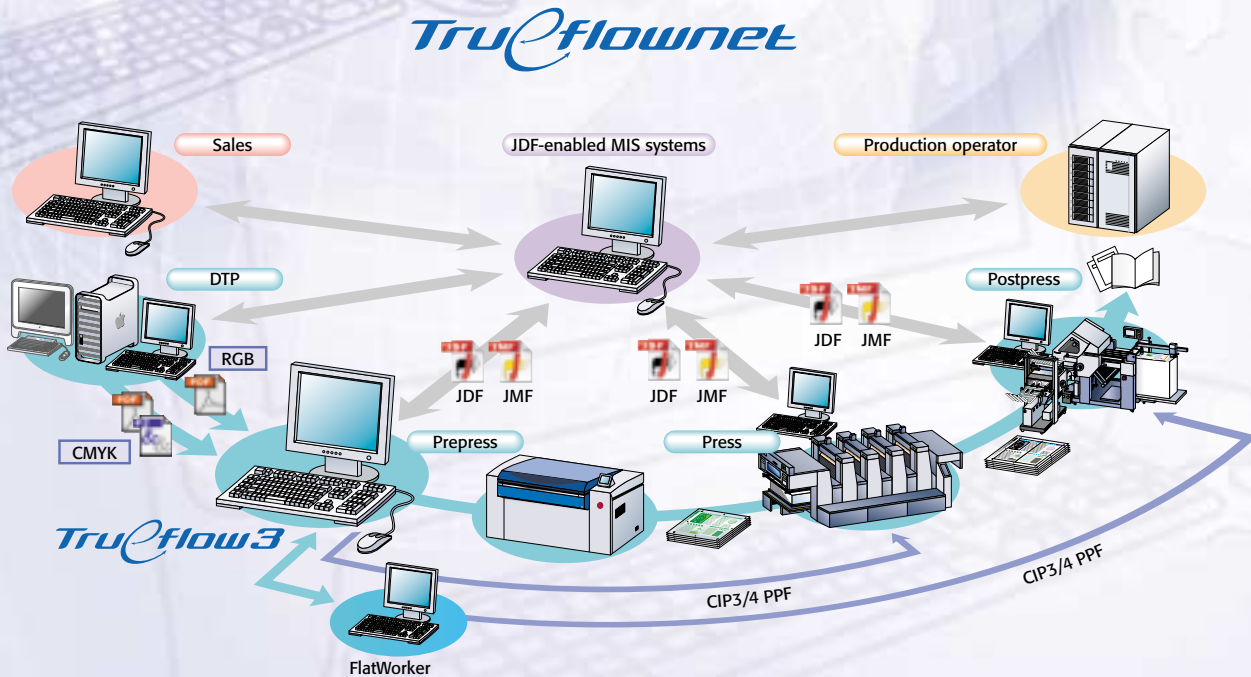
Supports CIP3/CIP4 for press and post-press support

Trueflow 3 outputs PPF files that comply with CIP3/4 standards. These files, which use prepress data to streamline downstream processes, dramatically reduce the work involved in setting up PPF-compatible printing presses by offering automated ink key control. PPF files can also be set up to include information for postpress devices such as binding, cutting, and folding equipment. Trueflow 3 offers all the process integration advantages of CIP3/CIP4 support.

Trueflownet workflow components

Screen has developed a range of modular workflow components within the JDF-compliant Trueflownet environment, designed to provide printers and their customers with easy to use and effective online print ordering, PDF creation, communications, and approval services. Trueflownet also offers printers a range of high value tools for customer relations management.

Ritecontrol

Ritecontrol connects seamlessly with Trueflow 3 to optimize the prepress workflow. It can be used for combined control of Trueflow 3/FlatWorker systems, and increases output calculation efficiency. In addition to distributing the workload and increasing uptime, Ritecontrol can also be employed to provide a consistent plate supply using schedules designed by the process manage department. When Ritecontrol is connected to the MIS, plate information can automatically be transmitted to post-processing. PPFs containing ink key control data and PPFs containing cutting and folding data can be managed separately for each job provided to the printing and post-processing departments along with the Job ID. During post-processing, the JDF Job ID from the MIS and the PPF data can automatically be combined to automate the preparation settings and eliminate the risk of late-stage input errors.If there is no MIS, the Job ID used in the order form can be input through Ritecontrol and then transmitted to post-processing.

Riteonline™

Riteonline is a powerful online web browser based print ordering and re-ordering system that streamlines the ordering of print jobs and allows customers to procure customized documents or reprints at any time. A powerful tool for printers and their clients, it opens up opportunities for building innovative printer-client relationships.

Riteportal™

Riteportal is an Internet customer portal that helps content creators create error-free, production-ready Certified PDF files from any application. Using the Riteportal PDF client which appears as a virtual branded printer driver on the creator's desktop, the creative designer simply clicks the print button to automatically creates a preflighted certified PDF file and connects directly to the print provider's web server for online job ticketing and submission. Faults can quickly be identified and resolved by the creator to ensure the final certified file is trouble-free when it enters the printer's workflow.

Ritetransfer™

Ritetransfer is an intelligent and powerful file client/server communications portal designed for printers looking for easy to use file transfer that allows customers to submit jobs directly from their desktop. Its simple drag and drop user interface allows the user to easily gather files for transmission to the printer web server. Ritetransfer uses Screen's smart auto correction transmission technology to automatically correct failures and ensure transfers are 100% secure, without any user intervention.

Riteapprove™

Riteapprove is an easy-to-use, integrated online digital approval solution exclusively for Screen's Trueflow workflow system. It streamlines the final production approval process, thereby increasing production efficiency even further. Riteapprove forms an important link between production and the client, enabling the client to have web browser based access to jobs, as well as the ability to comment and approve online at any time. A valuable tool for both the client and the printer Riteapprove streamlines the final production approval process, increasing overall efficiency and communication.

Trueflownet

> Trueflow 3 runs on the Windows Server platform and Trueflow 3 clients are operated on any network and on both Mac and Windows platforms.

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