



# Solimar's Chemistry™ solution suite drives secure and automated workflows

*"The ability to automate the production steps and provide security features within the print stream was paramount. Solimar's ability to produce a JDF job ticket has also enhanced the delivery of the files to the press."*

**Deon Wepener, Kyocera Document Solutions Europe**



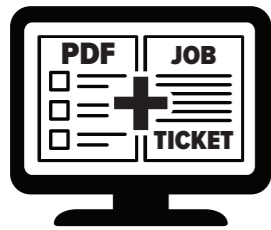
# Automated Secure Exam Paper Workflow - Powered by Solimar Systems



**CHEMISTRY™**  
POWERED BY SOLIMAR

Prepress Job Processing & Dynamic JDF Job Ticketing

## Job Submission



PDF, 1-up Exam Paper  
With Job Ticket

1

Individual Exam papers are submitted as PDF from the faculties along with a job ticket specifying page counts, quantities and format.

2

**SOLfusion** invokes a script which reads the job ticket data and creates variables that are used during the processing steps and stores them in the PDF job properties sub stream.

A unique UNIX time and date stamp is also generated along with a MD5 Hash of the input. This security information is critical in authenticating each and every exam paper.

3

**Solimar Indexing Tools** are used to identify specific control marks within the PDF which control attributes such as media type and correct printing requirement. These are the “P” and “X” values.

4



**Rubika** segments the “X” pages from the PDF files and places them in a separate workflow. This step also builds the copy count based on the job ticket.



**Rubika** concatenates the segmented PDF files to create a single run file for processing through the next steps.



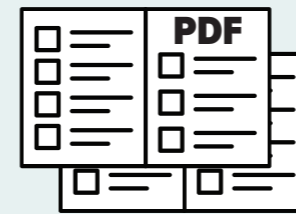
**Rubika** generates 2 QR codes; one for the UNIX time and date stamp and one for the MD5 Hash. The dynamic location for these marks is driven from data in the original job ticket.



**Rubika** imposes the individual files accordingly based on page count.

5

The files are indexed again to determine if and what perforations are required – left, right, both or none. **SOLfusion** variables are built containing perforation information and used in the JDF job ticket.



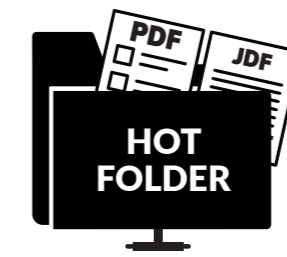
Imposed Print-Ready  
PDF Exam Papers

6



The final imposed files are built with a dynamic JDF job ticket defining the media types for each page of the exam paper.

## Press & Post-Press



Network Hot Folder  
Linked to Fiery DFE

7



The JDF job ticket and PDF are moved to a Hot Folder linked to the Fiery Digital Front End (DFE).



Kyocera  
TASKalfa Pro 15000c

8



Individual exam papers are printed on the TASKalfa Pro 15000c and are finished in-line using the SDD booklet maker.

Chemistry™ is Solimar’s Customer Communications Management (CCM) platform that provides enterprise workflow tools that blend Solimar technologies with third party applications enabling you to achieve visibility, accessibility and mobility into your entire operation.



**SOLfusion™**

Automates output production tasks such as external processes & scripts, indexing PDF documents, and executing Rubika® configurations.



**Rubika®**

Post-composition re-engineering solution that automates manual processes, add value to documents, and modifies print data.



**Solimar Indexing Tools**

Powerful PDF indexing tools to design, test and manage indexing templates for data extraction.

## Team Solimar Offers:



Online demos of  
our solution suite  
& capabilities



File testing of AFP, IPDS,  
Metacode, PCL, PDF,  
PostScript & VIPP®



On-site  
assessments &  
evaluation systems



Our modular solutions are  
off-the-shelf configurable with intuitive user  
interfaces. Professional services are available,  
but not required.

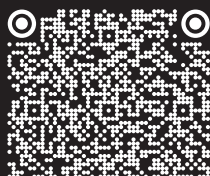


We empower our global clients and  
partners with 24/7 on-demand training  
content. Register today at:  
[suo.solimarsystems.com](http://suo.solimarsystems.com)

Chemistry™ – Powered By Solimar Systems

# INTELLIGENT AUTOMATION

THE GATEWAY TO WORKFLOW-DRIVEN AI



SCAN TO WATCH

Watch our short video and learn how  
**Solimar's Chemistry Platform** brings  
**INTELLIGENT AUTOMATION** to your factory.



Ready to discuss your needs and questions? Let's have a chat!  
Ping us at [SOLichat@solimarsystems.com](mailto:SOLichat@solimarsystems.com)

Jamie Walsh, Sales Manager EMEA & APAC

mobile: +44 (0)7377 143 665 • [linkedin.com/in/jamiewalsh](https://www.linkedin.com/in/jamiewalsh) • [jamie.walsh@solimarsystems.com](mailto:jamie.walsh@solimarsystems.com)



Solimar Systems, Inc. • tel: +1.619.849.2800 • [www.solimarsystems.com](http://www.solimarsystems.com)

© 2024. Solimar Systems, Inc. All rights reserved. Trademarks are property of their respective owners. REV 0424-v1.1