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TotalFlow BatchBuilder V2.1

Overview

RICOH TotalFlow BatchBuilder is a solution for mid-large size commercial and book printers. Its focus is to organize incoming orders from multiple sources and produce them efficiently on a continuous feed or cut sheet output device based on different job criteria.

Orders, and their specific attributes, come through input streams such as MIS or web to print (W2P). Integration with these upstream systems is supported by enabling XML mapping capabilities, through the use of recommended third-party software, that allows XML to flow into RICOH TotalFlow BatchBuilder through input hot folders. Jobs can be preflighted for problems and users create filters based on media width and height, document size, finishing type and so on, thus grouping "like" jobs into batches. The batches then can be imposed with Ultimate Impostrip and pushed to output hot folders, creating a highly efficient workflow for short-run digital jobs.

This release features

- New Chargeable feature to enable Preflight for incoming jobs that allows users to detect and fix any file errors that could halt production

- Ability to pull job properties from the file name to filter off of so PDF only workflows can be more automated

- Ability to set up proof workflow so that jobs requiring proofs can be addressed and do not get lost in the system

- Ability to view all jobs sent to any given output and how much run time is associated with those sent jobs using the new dashboard

- Quickly see all jobs in the system, all jobs due today, due tomorrow or overdue in the new footer tray.

- Ability to trigger XML out for upstream systems, such as an MIS, upon status update

- Ability to set up banner sheets for outputs. These can be printed with a border to use as a slip sheet or can print at the beginning or end of each job to help automate the production process

- Select properties to create custom 3 of 9, QR or Datamatrix barcodes to add to batch tickets and banner sheets for tracking

- When setting up an input hot folder customer can now choose JMF over HTTP to comply with standard CIP4 systems such as Avanti. With this setting the system will also send "Printed" job status back to the upstream system

- When setting up an input hot folder customer can now choose CSV as input type. BatchBuilder will convert the CSV into an XML format so mapping can be created for incoming orders

- When setting up filters or sending batches to an output customers can choose to gang a batch of work together using Ultimate Impostrip

- Properties within BatchBuilder can be selected to send into Ultimate Impostrip to use for custom barcodes placed on imposition

- Backup and restore can be configured and ran from the UI

- Windows 10 and Microsoft Edge support

- Ability to add a new job to an existing order

- Create new order in the system from the Order Tab as well as the traditional method in the UI

- Ability to see job history in the dashboard

- UI and usability enhancements -

  - Double clicking to open a folder or drag and drop folders when managing network drives
  - When performing a job search users can now take advantage of the right click with all applicable options available
  - Yellow icons for hold, incomplete and waiting for files. Existing red icons are for errors and overdue
  - When adding another option to a list the cursor moves automatically to new entry
  - Multi-select batches in the fat row to take action on
  - From the batch details dialog users will be able to save and send instead of having to click OK first
  - From job details dialog uploaded job file is now a link that when clicked can be downloaded
  - When in trial mode yellow triangle icon is displayed in banner of UI and on hover provides trial details for each feature
  - When output type is for JMF over HTTP user can now select to poll device for printed status
  - When navigating away from some Admin tabs a confirmation dialog will ask user if they would like to save any changes made

- Set where batch numbers start in the system. This is changeable at any time

- Added additional alerts such as low disk space, and job does not match filter

- New field added to BatchBuilder schema for imposition hot folder to automate the selection if data is available

- Zip files can be dropped into input hot folders and BatchBuilder will open and process

- Consolidated Admin tabs due to space allocation

- Support for Ricoh's digital book printing solution

Item Numbers

The following table contains the base product plus features. The new orderable feature in BatchBuilder 2.1 is highlighted.

Item Number	Description
5765-H35-OC001	**TF BATCHBUILDER BASE PLATFORM OPTION CLASS**
401249	TF BATCHBUILDER BASE
5765-H35-OC002	**TF BATCHBUILDER OPTIONAL FEATURES OPTION CLASS**
401250	TF BATCHBUILDER AUTOMATION OPTION
401251	TF BATCHBUILDER XML/JDF OUTPUT OPTION
401252	TF BATCHBUILDER UNLIMITED OUTPUTS OPTION
401253	TF BATCHBUILDER LIST FILE OPTION
255835	TF BATCHBUILDER PREFLIGHT
255700	TF BATCHBUILDER NOTIFY ADD ON OPTION
255701	TF BATCHBUILDER LOW-SPEED PRT ENGINE ATTACH OPTION
255702	TF BATCHBUILDER MED-SPEED PRT ENGINE ATTACH OPTION
255703	TF BATCHBUILDER HIGH SPEED PRT SYSTEM ATTACH OPTION
255704	TF BATCHBUILDER ULTRA HIGH-SPEED PRT SYSTEM ATTACH OPTION

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A complete list of all item numbers is in the attached file. The new items include:

- Preflight

TotalFlow
BatchBuilder 2.1 Prod

Description

The ability to integrate multiple systems, like W2P and MIS, automate workflows and track jobs through production is crucial for medium-large commercial and book printers. TotalFlow BatchBuilder will bring in work from these different upfront systems using hot folders, batch like jobs together, and send the data and files directly to output hot folders. The user is provided with an overview of all work coming in, and the most efficient way to produce it, thus eliminating touches along the way that would in the past cost time and money.

TotalFlow BatchBuilder 2.1

- •Base Product   (BatchBuilder is sold as a base product with 6 optional features)
    - •XML Input / Mapping
    - •Filters
    - •Orders / Job Management
    - •Batch Management
    - •Light Integration with Ultimate Impostrip
    - •Dashboard
    - •Barcodes for status and tracking
    - •Triggers & Alerts
    - •Manual Job Submission
    - •PDF + Hotfolder
    - •Custom Fields
    - •PDF Viewer
    - •5 Outputs included
    - •Banner Sheets

- •Optional Features
    - •Automation
    - •Unlimited Outputs
    - •XML/JDF Output
    - •List File RPD
    - •Preflight
    - •Notify Add On with Printer Attachment Fees

TotalFlow BatchBuilder Functions

- Provides a browser based UI – Can use any of the browsers listed below

    -Internet Explorer 10 or later
    -Mozilla Firefox 19 or later
    -Google Chrome 21 or later
    -Safari 5 or later
    -Microsoft Edge

- Takes in XML/JDF, or CSV generated from Web2Print, MIS, or high end Prepress systems, such as Prinergy, Apogee, Prinect or Esko, using input hot folders that can have default attributes applied to them (an XSL mapping file is required to transform incoming order and job attributes into TotalFlow BatchBuilder attributes). Hot folders can be local or on a network.

- Three user roles –

  -Administrator (full rights)
  -Operator (limited access to Admin tab and alert triggers)
  -Viewer (no access rights, view only)

- Lets you receive alert notifications in the UI and also via email for –

  -XML inconsistencies
  -Input and output errors
  -Batch errors
  -Mapped network drive errors
  -Jobs overdue
  -Preflight Errors
  -Waiting for files
  -Requires proof
  -Incomplete
  -Too big for automated filter, matches combined filter and automated filter, partial match of
   combined filter, job does not match filter
  -Duplicate order
  -Low disk space

- Takes in the PDF data stream, and will push to output hot folders when batched. There is no size restriction on these files, but to view within BatchBuilder they can't be more than 300MB. If file is over 300MB the file will be downloaded and then can be opened on local system.

- Mapping enablement, using professional services or recommended 3rd party software, lets you map order attributes to and from BatchBuilder so that important job ticket information can flow to output hot folders. The 3rd party software we recommend is Altova MapForce.

- Order Integrity prevents filters from recognizing any job until all jobs from the same order are in an unbatched state. This can be turned on or off at the input hot folder and is important for book printing.

- Filters are set by the user with predefined or custom attributes, such as document or media size. Orders come into BatchBuilder and if job(s) within the orders match filter attributes they can group together in that filter for batch output. The three types of filters are:
    - Single Filter – One filter with predefined attributes to help user batch like jobs.
    - Combination Filter – Consists of a minimum of two sub-filters or components that are linked together. All work that batches from these filters will batch together and will be shown as linked. This filter type is part of the "Order Integrity" and is critical for publishing and kitting workflows where parts of an order need to be tracked.
    - Proof Filter – One filter with predefined attributes to help user create batches of jobs requiring a proof. It allows jobs to batch with a quantity of "1" without affecting original order specifications and places jobs in a "proof out" state.

- You can manually batch order parts (jobs) across multiple batches for efficiency with scheduling, printing, and finishing. Jobs can be added to any batch and can also be deleted out of any batch.

- Lets you set retention time for orders and batches to help with disk space and re-prints. Also can set retention for amount of history kept to be available for viewing within the dashboards.

- Lets you create custom attributes that you may want to batch off of for downstream devices.

- Light integration with Ultimate Impostrip. When Impostrip is enabled jobs can be imposed and then BatchBuilder will send to output hot folders. Also included is the ability to gang batches of work together to take advantage of sheet optimization when required.

- Lets you queue batches, XML/JDF and/or PDF, to an output device. An output device in BatchBuilder is a hot folder of another software system or a Print server like TFPM/RPD or a DFE. Since the software is hot folder driven the only requirement is the output device needs to be able to accept PDF or XML/JDF.

- Lets you reorder batches queued to an output device.

- Lets you edit properties for orders, jobs, alerts, users, inputs, outputs, filters and batches.

- Manual orders can be submitted from the UI. These can also have attributes applied upon submission as well as process through the Preflight filters.

- Lets you move queued batches between output devices

- Lets you add up to 20 custom states and 20 locations to help with job tracking

- Lets you print banner sheets with each job and add colored borders if you want to use it as a slip sheet.

- Batch tickets can print with batch as a pdf, sent to another directory as xml and/or be sent to a laser printer available from the BatchBuilder server.

- Choose between 3 of 9, Datamatrix, or QR barcodes to add to the batch tickets and banner sheets. Custom barcodes can be added in addition to the BatchBuilder ID barcodes to scan with a handheld USB device. The new custom barcodes can be added for use with other systems such as an MIS while the BatchBuilder ID barcodes are for the purpose of updating the status and location within the UI.

- Dashboard views available with ability to download csv file

- Set backup schedules for system, do manual backups when needed or restore system from a backup right from the UI.

Additional Features

- Automation – This will allow you to use automation on the filters. You can have one trigger or several using and/or logic.

- Unlimited Outputs – This additional feature allows an unlimited number of output hot folders (the base option only comes with five).

- XML/JDF Output – This feature will allow you to send XML/JDF + PDF whereas the base software only allows PDF.

- List File RPD – This feature creates a RPD (Ricoh Process Director) list file. The RPD list file contains a list of all the jobs from the sent batch and will maintain the order it was sent in.

- Preflight – This feature allows the creation and application of custom profiles and actions to incoming jobs to help prevent production issues resulting from problematic PDF files.

- Notify Add On – This feature parses data coming out of printers and automatically sends the "Print" complete status to BatchBuilder. There will be printer attachment fees associated with this feature that are outlined below.

Copy Count Support on the InfoPrint 5000

Improving the productivity of Ricoh solutions, TotalFlow BatchBuilder can automatically request a variable number of copies when submitting PDF jobs to the InfoPrint 5000. Previously copy count was set by the print operator. Now, batches of jobs can be created, each with their own copy count, resulting in a significant improvement in system throughput while reducing the potential for errors.

Key to this support is the use of a JDF job ticket to pass the job information. The JDF job ticket is combined with the PDF file in a MIME format, ensuring that the correct copy count is applied to the job.

The following are considerations concerning this new support:
- Only the Copy Count value within the XML job ticket will be used. All other job ticket attributes will be ignored.
- The maximum number of copies supported by the InfoPrint 5000 is 32,767. If a job is submitted with a larger value, the copy count will be set to 32,767.
- If the job is submitted with a copy count of zero, the copy count will be set 1.
- Error messages are not returned to the submitting software.
- Note: An invalid JDF job ticket will result in the job being aborted.
- The InfoPrint 5000 requires microcode level v2.9.112 or higher to support copy count.

Printer Attachment Requirements

Printer Attachment features are only required for TotalFlow BatchBuilder software if the Notify Add On Feature is purchased.

The Printer Attachment features are at different levels (tiers) based on the printer speeds. For low and medium speed devices the fee is per engine, and for high and ultra high speed devices the fee is per system.

Print attachment feature categories (features) are as follows:

- 63-110 impressions-per-minute (low-speed)
- 111-300 impressions-per-minute (medium-speed)
- 301 -1499 impressions-per-minute (high-speed)
- 1500+ impressions-per-minute (ultra-high-speed)

A printer attachment feature is required for each physical printer that sends out a printed complete status. A "physical printer" may be a printer or a controller and printer combination. The only exceptions are set forth below:

Required Print Attachment Feature Exceptions
1) A printer attachment feature has already been purchased for other Ricoh software, such as Ricoh Process Director.
2) Physical printers that are used only for test, development and cold backup do not require printer attachments.
3) The Notify Add On Feature was not purchased

Customer Responsibilities

The customer is responsible for correctly reporting printer speeds at initial license purchase and at subsequent maintenance renewals or upgrades.

BatchBuilder System Requirements

TotalFlow BatchBuilder can be installed on one of the systems listed below.

OS	Edition	64bit(x64)	Notes
Windows 7 (SP1)	Professional Enterprise Ultimate	X	Adobe Acrobat Reader version 10 or higher
Windows 8	Pro Enterprise	X	Adobe Acrobat Reader version 10 or higher
Windows 10	Pro Enterprise	X	Adobe Acrobat Reader version 10 or higher
Windows Server 2008 (SP2)	Standard Enterprise	X	Adobe Acrobat Reader version 10 or higher
Windows Server 2012		X	Adobe Acrobat Reader version 10 or higher

*If you install TotalFlow BatchBuilder on an operating system that is running on VMware software, the system might experience a drop in performance. To avoid any TotalFlow BatchBuilder performance issues, make sure you allocate a separate disk drive for the VMware software

In addition the following hardware and software is required:

Item	Requirements
Computer	CPU – Quad Core Processor 2.7 GHz or better. Main Memory – 8 GB RAM or higher
Hard disk	We recommend 500 GB of available space for the initial installation and up to 1 TB depending on usage. Note: The amount of space required varies greatly, depending on the size and number of orders and jobs and on the specific processes that are set within TotalFlow BatchBuilder. Using a SSD type hard disk is recommended for better performance.
Display	1280 x 1024 pixels or higher

	Note: Maximize the browser window when you use this application. If the size of the browser window is not large enough to display the user interface, you might experience problems with truncated display.

Publications

- Setup Guide

- User's Guide

- Readme File

Terms and Conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with Ricoh are contained in the applicable contract documents, such as the Ricoh Software License Agreement and the Ricoh Software Maintenance Agreement for Production Printing Software.

Licensing: The Ricoh Software License Agreement governs your use of the program. These programs have a One-time-charge (OTC) for use of the program, and an annual (or multi-year if available) renewable charge for ongoing support, which includes telephone assistance, as well as access to updates and new releases of the program as long as support is in effect.

Trial Period

TotalFlow BatchBuilder base product plus Automation, Unlimited Outputs, XML/JDF Output, List File RPD and Notify Add On features allow for a 60 day trial period. The new Preflight feature allows only a 30 day trial period.

Maintenance Service Offerings

TotalFlow BatchBuilder is covered by the Ricoh Software Maintenance Agreement for Production Printing Software. This agreement applies for subscription and support (also referred to as software maintenance) when purchased with the software product or as a subsequent renewal of software maintenance. The software maintenance agreement does not require customer signatures.

 While your software maintenance is in effect, RICOH provides assistance for routine, short-duration installation and usage (how to) questions and code-related questions. RICOH provides assistance via telephone and, if available, electronic access, only to your Information Systems (IS) technical support personnel during normal business hours (published prime shift hours) of the RICOH support center. This assistance is not available to end users. RICOH provides Severity 1 assistance 24 hours a day, every day of the year. For additional details, consult the Ricoh website at:

http://rpp.ricoh-usa.com

Software maintenance does not include assistance for the design and development of applications, your use of programs in other than their specified supported operating environment, or failures caused by products for which RICOH is not responsible under this agreement.

1, 3, and 5-year Maintenance Agreement

The first year of MA is included in the purchase of the software. Customers may elect to add or renew their MA for 1, 3 or 5 year(s). This agreement will also have Cold Backup, Restricted Use and After license options.

Warranty Period

The program is warranted for 90 days as stated in the Ricoh Software License Agreement.

Ordering Information

This product is ordered by choosing the base product, optional features, and desired maintenance. If requested a DVD, including installer, EULA, notes, and the Setup and User Guide can be manufactured and sent to Users, otherwise it is by digital download.

Accessibility by people with disabilities

TotalFlow BatchBuilder has the following capabilities for vision-impaired users:

- Can display content in large-font mode without losing visual focus

- Provides support for tab navigation of forms and content

- Provides all information and can be understood without color

- Provides support for interfaces commonly used by screen magnifiers

- Provides support for interfaces commonly used by screen readers

- Provides documentation in an accessible format

- Provides all information visually, without the use of audio or multimedia

TotalFlow BatchBuilder has the following capability for users with mobility impairments or limited hand use:

- Provides support for keyboard navigation

- Provides ability to use without short-term time limits

- U.S. Section 508 Voluntary Product Accessibility Template (VPAT) can be requested from the Web site at http://www.ricoh-usa.com/about/accessibility/accessibility.aspx?alnv=access.

SECTION 508 OF THE U.S. REHABILITATION ACT

TotalFlow BatchBuilder, when used in accordance with Ricoh Production Print Solution's associated documentation, is capable of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) can be requested using Ricoh's Web site at

http://www.ricoh-usa.com/about/accessibility/accessibility.aspx?alnv=access

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