



Release Notes

Version: 2018.2.1

PReS.[®] Connect

OL[®] Software

Release Notes

Version 2018.2.1

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Overview

This document provides an overview of the new features and enhancements in PReS Connect 2018.2.1 and PReS Workflow 2018.2, as well as some important installation information.

Installing PReS Connect and PReS Workflow

- PReS Connect is released as a 64 Bit version only, although the PReS Workflow, Fax, Search and Imaging modules are 32 Bit..
- Full details on installing and licensing PReS Connect and PReS Workflow can be found in the online help, which can be accessed from the software and the installer.
- Note that both PReS Connect and PReS Workflow come with 30 day trial license by default.

Updating stand-alone Workflow Messenger installations

If Workflow Messenger was installed stand alone with no other Workflow components installed, the Update Client will be unable to find the Messenger component and thus it will not automatically update to the Workflow 2018.2 version. To get around this, download and run the Workflow 2018.2 installer manually.

Templates Used in Workflow

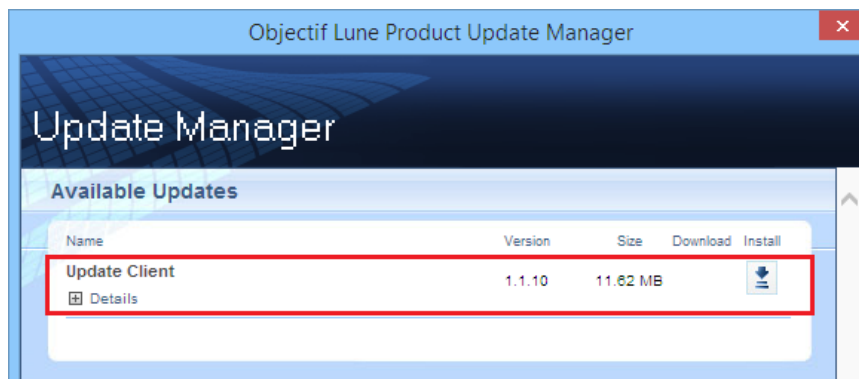
For improved performance we recommend re-saving Workflow templates set up in the previous versions to run with PReS Connect 2018.2\Workflow 2018.2.

Upgrading from PReS Connect 1.7

It is highly recommended that you update the **Objectif Lune Update Client** before upgrading PReS Connect from version 1.7 to version 2018.2.

If you do not update the Update Client, an unexpected error might occur whilst updating Connect. This error does **not** prevent the successful upgrade of Connect to 2018.2, even though it appears as if it might have. To avoid potential confusion, we recommend that you first update the **Objectif Lune Update Client** before attempting to upgrade Connect from version 1.7.

The Update Client will show that there is an update available for itself. Simply click on the download button in the dialog to install the new version of the Update Client. Note that it is no problem to run the update while the Client itself is still open. It automatically updates itself.



Reduced Memory Version

It is possible to install PReS Connect on a machine with a minimum of 2 GB of RAM. The PReS Connect Designer will automatically detect whether it has been installed on a machine with less than 4 GB of RAM and default to only using one internal Weaver and one internal merge engine on that system. The Server will also run using internal engines.

NOTE: This is *not* recommended for production.

Connect 2018.2.1 Enhancements/Fixes

Backwards Compatibility Issues

Connect 2018.2 introduced some issues which have now been addressed in 2018.2.1. These issues were:

- Backwards compatibility issues with Workflow/REST API processes that incorporate Connect DataMapper configurations connecting to databases. (SHARED-67683)
- External sort metadata fields were not being catered for properly in the metadata validation code in the Output Preset and Print Wizards. (SHARED-67687)
- Fixed a problem affecting scripted Section configurations containing different scripted values for different records. The merge engine would sometimes use previously applied scripted values. (SHARED-67699)
- Fixed a problem with cloning template Sections that did not successfully clone all fields. (SHARED-67702)

Connect 2018.2 Enhancements

Sassy CSS

PReS Connect 2018.2 introduces **Sass** CSS preprocessor functionality to the Designer.
(SHARED-64625)

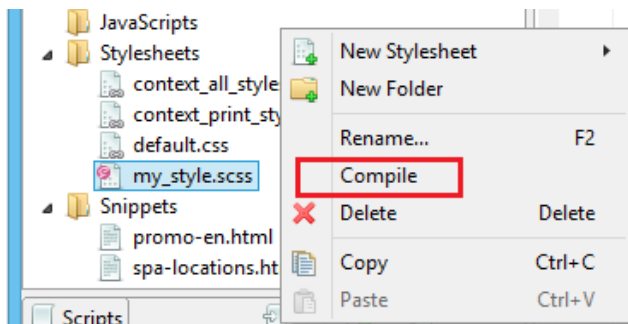
Sass (*Syntactically Awesome Style Sheets*) is an extension of CSS that enables you to use things like variables, nested rules, inline imports and more.

Maintenance of CSS styles for templates requiring many different style rules can become a tedious undertaking. Stylesheets files keep getting larger and more complex and thus harder to maintain. Some common challenges include:

- How to group/organize rules that belong together? (e.g. styles for an address block, footer or dynamic table)
- How to update a color value or font family across multiple rules and even across stylesheet files?

A CSS preprocessor like Sass solves these problems and helps you write maintainable code.

In Connect Designer options have been added to the Stylesheets folder to create and compile Sass files (.scss file written using Sass 3 syntax). For more information on the Sass language see: www.sass-lang.com.

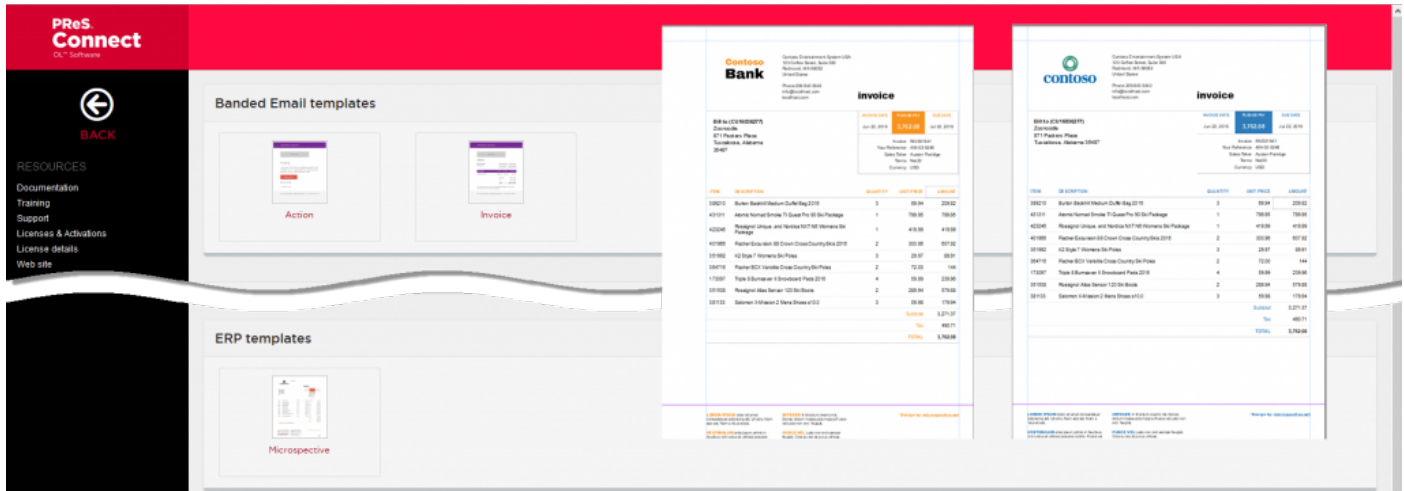


Compiling a .scss file outputs a normal CSS stylesheet file which is automatically linked to the current section.

Alternatively use drag and drop to link the result to other sections or use the Includes dialog of a specific section.

New ERP Template Wizards

ERP templates have been added to the Template Wizards. (SHARED-52963)



The new wizard allows you to create seven different transactional print documents, all with a uniform style. They all include a datamodel with appropriate scripting embedded. Basically, all you need to do is use the wizard to customize company information, logo, and color, and then create a data mapping that fits the template's model.

The seven document types provided are those often used in ERP environments: Sales Invoice, Sales Packing Slip, Sales Confirmation, Purchase Order, Project Invoice, Collection Letter, and a Free Text invoice.

The current wizard is named after the style it uses: "Microerspective". Other wizards with different styles may follow in future versions.

Dynamic Sheet Configuration Settings

A common requirement for dynamic print templates is the ability to switch between simplex and duplex. Typically this is solved by duplicating a Print Section, enabling Duplex in the Sheet Configuration dialog and then switching between the simplex and duplex sections by Control Script (or through the Conditional Print Section wizard).

In Connect 2018.2 new scripting commands have been added to dynamically set Sheet Configuration options from within a Control Script. This allows you to set the Duplex mode dynamically, or do things such as applying a different Master Pages based upon the data, or omitting empty sides from the last sheet, or single sheets.

The following Control Script sample enables Duplex mode for "Section 1":

```
let section = merge.template.contexts.PRINT.sections["Section 1"];  
section.sheetConfig.duplex = true;
```

The following snippet sets the media and the master pages for the all sheet positions of "Section 1":

```
let section = merge.template.contexts.PRINT.sections["Section 1"];  
section.sheetConfig.positions.all.media = "My Media";  
section.sheetConfig.positions.all.allowContent = AllowContent.ALL_SIDES;  
section.sheetConfig.positions.all.masterFront = "My Master Page";  
section.sheetConfig.positions.all.masterBack = null;
```

Performance Improvements

- **Job Creation:** Improved job creation speeds. This is particularly the case with any job creation that involves any processing, including filtering, grouping or sorting. (SHARED-50328)
- **DataMapper:** The default amount of memory allocated to each DataMapper engine has been increased to improve both performance and memory management.
- **Output:** Improved memory handling, leading to even better stability.

Installer Improvements

- Support added for using **non-Latin-alphabet characters** in the User Name for connecting to external databases. This applies to both the Setup and the Preferences (Designer and Server Configuration) dialogs. (SHARED-65243)
- **Microsoft Visual C++ Runtime** now only installed when really required. (SHARED-63909)
- Several third party libraries have been updated. (SHARED-57163)
- A warning is now displayed if the **Windows Management Instrumentation** service is not enabled and started. (SHARED-61548)

- Installer now logs more helpful messages when failing to connect to an existing MySQL server. (SHARED-62836)

REST API Improvements

REST API calls that take resource IDs, whether on the URL or in a JSON payload, have been improved in two ways.

1. The existence of the resource represented by the ID is now verified. If it doesn't exist, a HTTP status code of either 403 or 404 is returned. Previously the result was undefined and varied depending upon the call made.

Note: Calls that accept a variable number of resource IDs are not subject to this change for performance reasons, as this would require all resources be loaded upfront for validation.

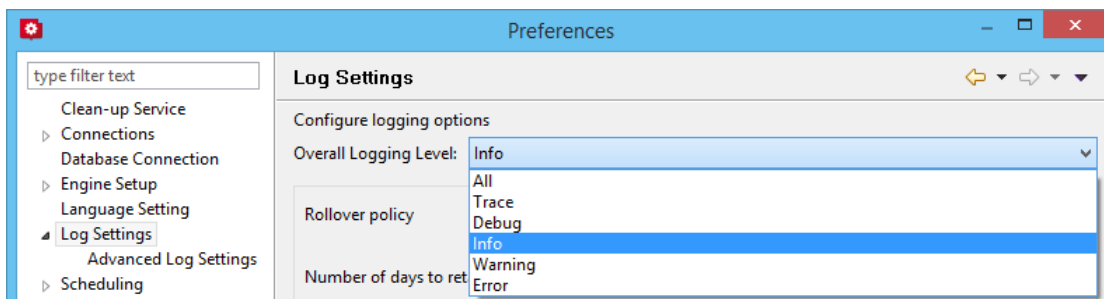
2. Many errors are now reported using a standard JSON format.

Note: Most such error messages are not translated.

Logging Improvements

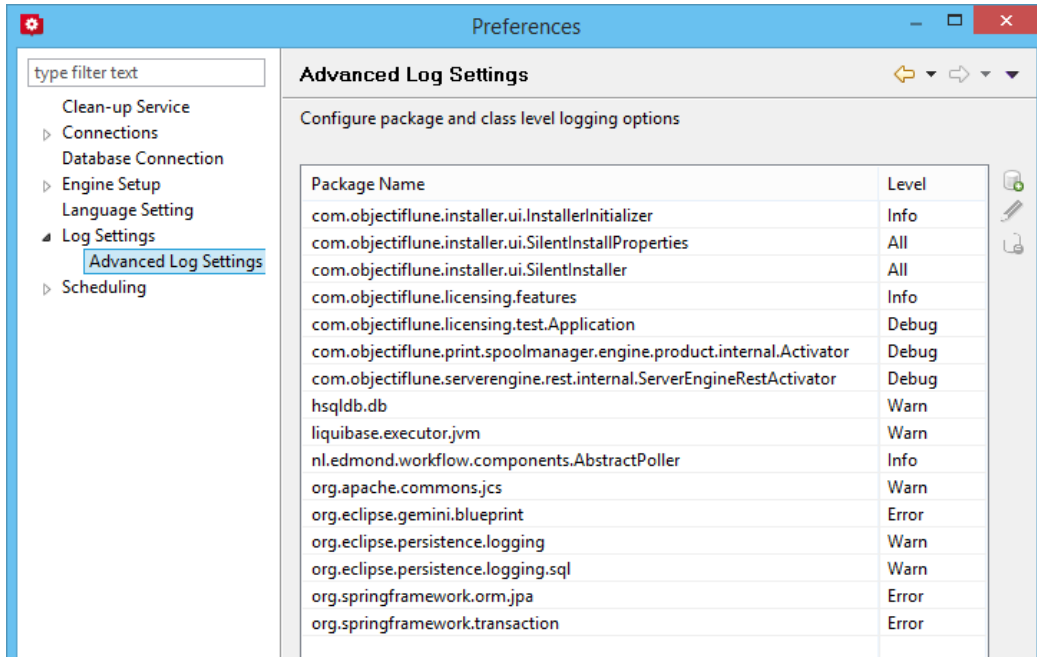
- Improved error/warning logging in Live mode. (SHARED-49046)
- Extra preferences added to allow greater control over logging levels. (SHARED-63923)

One change is the introduction of an option to set the **Overall Logging Level**. By default the logging level is set at the midpoint of *Info*, but it can be set higher to include more logging (*All*, *Trace*, *Debug*) or lower to reduce the logging (*Warning*, *Error*).



NOTE: Higher logging settings will have an impact upon Connect production speeds, as well as leading to substantially larger log files.

We have also introduced **Advanced Logging** preferences. The Advanced settings override the Overall logging settings, and provide a greater level of logging granularity. The Advanced Log Settings should only be set in conjunction with advice from OL support, to ensure that only the most relevant settings are set to the higher logging levels.



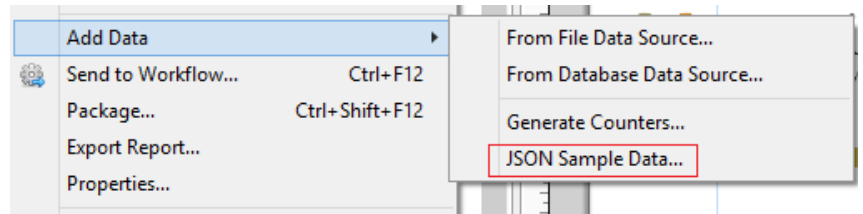
- The logging format default has changed from dd MMM yyyy (31 May 2018) to yyyy-MM-dd (2018-05-31) to make it easier to sort log files when using tools to merge and view multiple log files together. (SHARED-64233)
- Connect will now log a warning message in the event that there are insufficient engines currently available for a specific job, leading to the scheduler having to wait. (SHARED-61642)
- The location of the logging configuration file has moved from the Users directory to ProgramData to restrict the configuration to a per-machine basis. (SHARED-64147)
- Should a fatal error occur in the Java Virtual Machine running Connect the logs generated are now controlled and will appear in "C:\ProgramData\Objectif Lune\OL Connect\ErrorLogs" folder. (SHARED-64597)

Connect 2018.2 Designer Updates

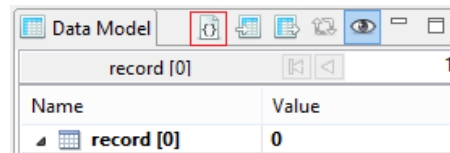
JSON support added to the Data Model Panel

The Designer now allows you to add **JSON sample data** straight into the Data Model for debugging purposes. (SHARED-61655)

This can be done via a new **File menu option**



Or from the Data Model Panel itself, using the new **JSON Sample Data** button.

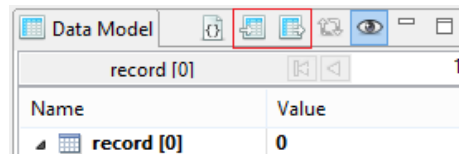


Invoking this option launches a wizard which allows you to either select a JSON file or paste JSON data copied from a Workflow variable. When loading data from a disk file the file contents are automatically placed in the JSON editor.

If JSON sample data is active invoking the **JSON Sample Data...** option will show the current data allowing you to edit its structure and values.

You can also now import or export a Data Model in JSON format. (SHARED-64620)

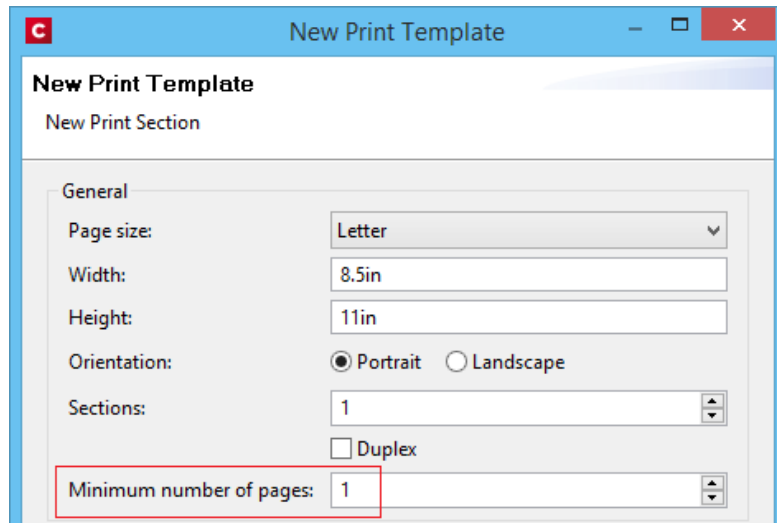
Select the Import or Export button and then choose *.JSON files type.



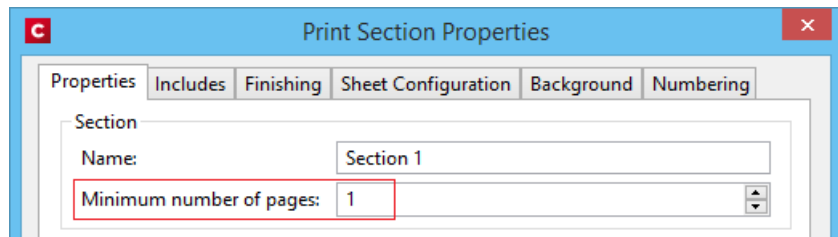
Minimum Pages option added to Print Sections

Connect 2018.2 introduces a new section property for controlling the minimum number of pages for a Print Section. This can be used to generate pages with only absolute positioned content, simplifying workflows where the number of pages are known up front and you want to draw boxes (absolute positioned divs) on specific pages. (SHARED-10236)

The property can be set when the new Template is being created.

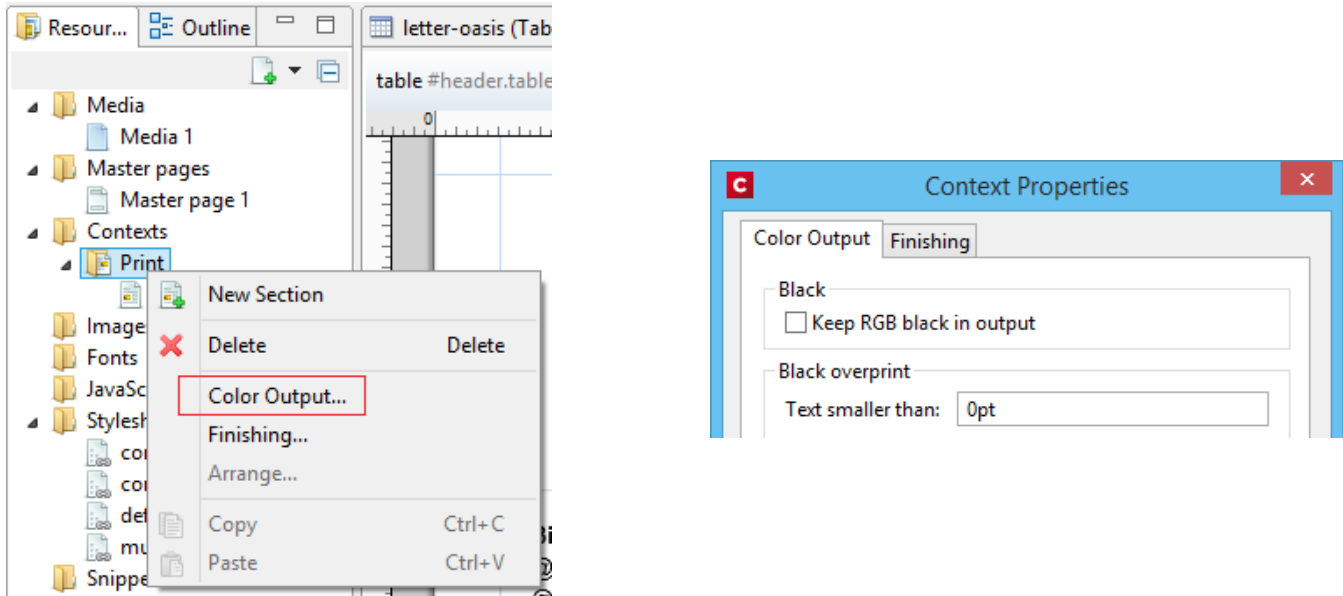


Or through the Print Section properties.



Color Output option added to Print Contexts

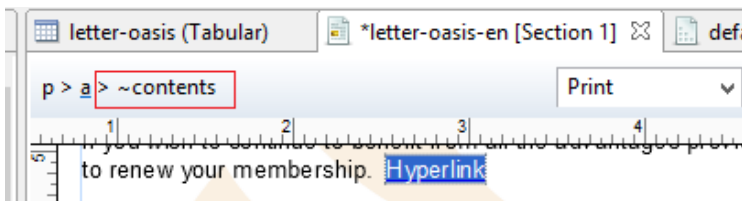
For certain full color print jobs, it is important to be able to set black text on top of color areas to overprint. This is of particular importance for small text, because mis-registration problems are more visible with small text. To support this a new Color Output option has been added to the Print Context. (SHARED-62265)



The default encoding for the color black has also changed from RGB to CMYK. Thus the “*Keep RGB black in output*” option was added for backwards compatibility.

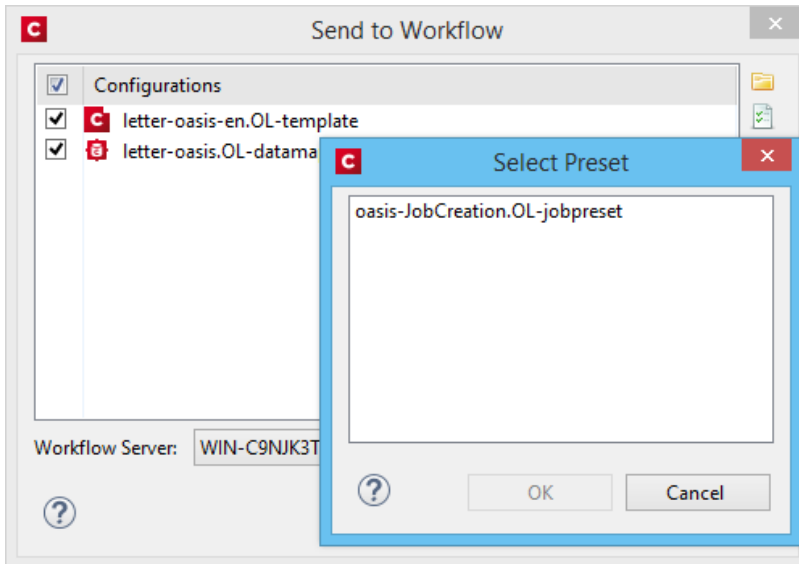
Breadcrumb Improvements

The breadcrumbs at the top of the workspace will now always end with a ~contents breadcrumb. When clicked this will select the *contents* of the last element rather than selecting the last element. (SHARED-17339)



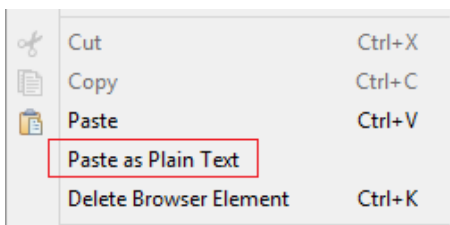
Send To Workflow Improved

The Send To Workflow option has been simplified and streamlined, and a new Package option has been added. (SHARED-60392)



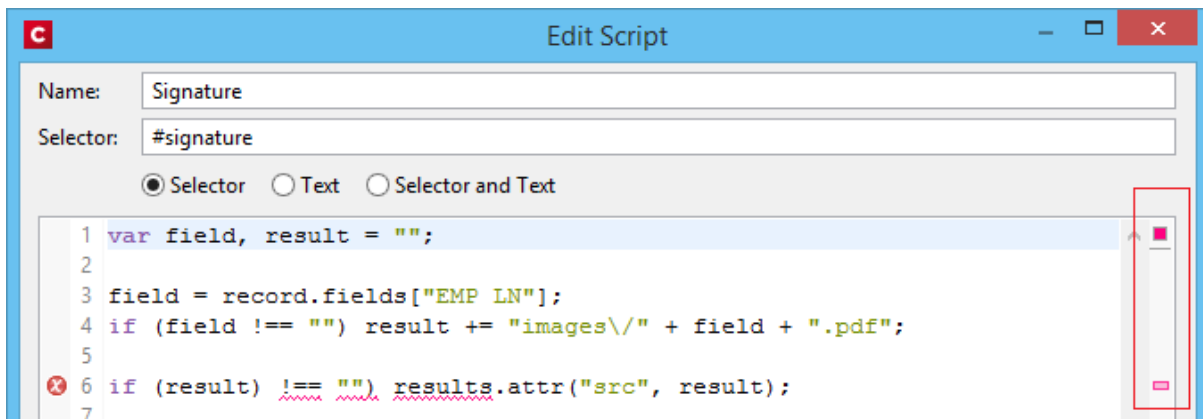
Paste as Plain Text option added

Option added to paste content copied from an external editor as plain text. This ensures any unwanted formatting and invisible elements are removed. (SHARED-63025)



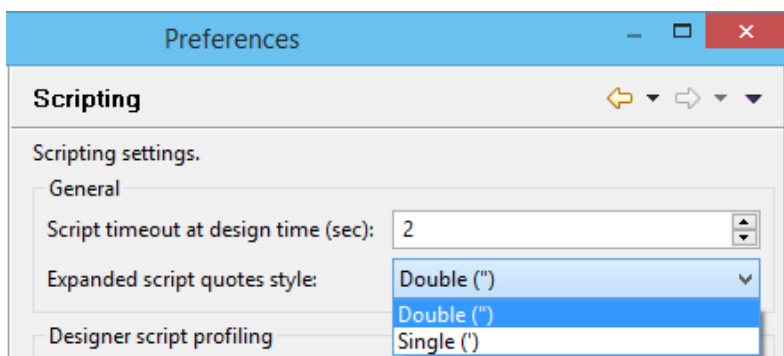
Scripting Improvements

- An overview ruler has been added to the Script Editor. The ruler shows annotations concerning the entire script. These annotations are shown relative to their position in the script and do not move as the user scrolls the script source. Script errors are highlighted by a red icon, and warnings in yellow. The topmost icon will display red if any errors exist in the script at all.



This allows you to immediately see if a script has warnings or errors and easily jump to any warning/error location by clicking on the annotations in the overview ruler. This is particularly handy when a script has many lines of code. (SHARED-64717)

- Personalization scripts can now use the "loadtext" function to load text content from files. (SHARED-61512)
- Option added to Scripting Preferences to set whether expanded scripts use single or double quotes. (SHARED-60370)

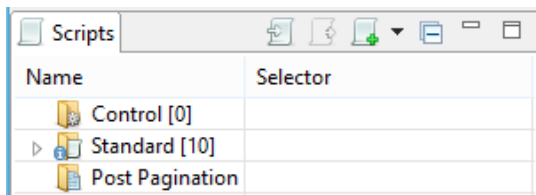


- Scripts can now conditionally trigger a fatal error by calling the new `fatalError` (message) function. This will abort content creation. (SHARED-64789)

- Scripts in Print Context jobs can now attach arbitrary properties to *content items* generated by Content Creation. The properties are retained in the database, allowing the information to be utilized in Workflow for further processing along with the base record information when retrieved by the Retrieve Items action. (SHARED-65239)
- Introduced "width" and "height" script functions with the same behaviour as jQuery's "outerWidth" and "outerHeight". (SHARED-65513)
- Fixed an issue whereby the `resource()` function did not work properly when passing a UNC path. (SHARED-65523)

Post Pagination Improvements

- We have introduced a new **Post Pagination** script type, and have updated the Scripts panel so that it now groups scripts by type. The groups are Control, Standard (which contains any pre-existing scripts) and Post Pagination. (SHARED-64634)



These script types are grouped to emphasize their execution order. Control scripts are executed before the merge process and therefore run before the Standard and Pagination scripts.

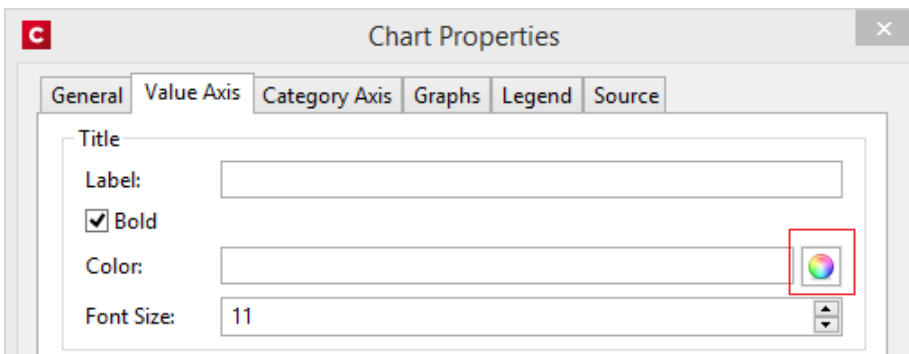
- Several new script functions have been introduced for use with the new Post Pagination scripts. Scripts can now access elements in any section as well as retrieve information that is only available after pagination. This will allow for the creation of post content elements like a **Table of Contents**. (SHARED-64637)
- Margins for Sections and Master Pages are now scriptable, through the new `margins` object. (SHARED-62173)
- The sheet configuration of a Print Section is now scriptable, via the new `sheetConfig` object. (SHARED-63061)

Barcode Improvements

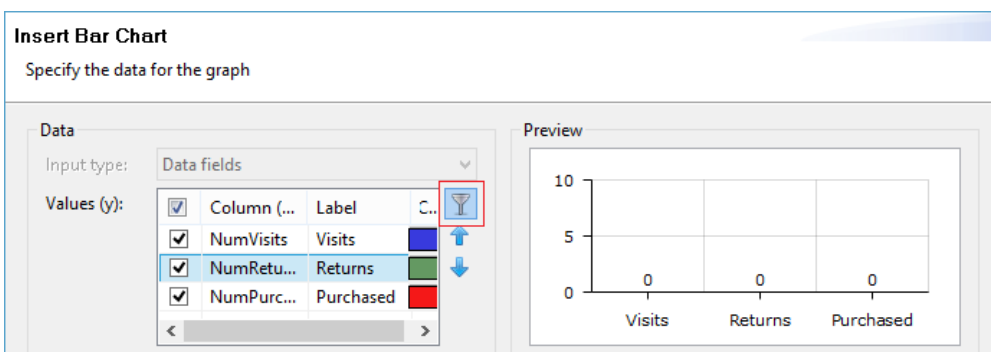
- Added **human readable text** and checksum controls to Royal Mail 4 State barcodes. (SHARED-47422)
- Added support for Grayscale “Colors”. (SHARED-50614)

Business Graphics Improvements

- **Color picker** options added throughout the Chart Properties dialog. (SHARED-62564)

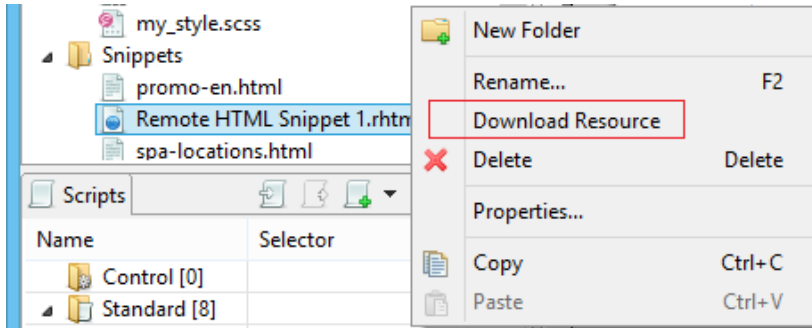


- The "*Values (y)*" table in both the **Insert Graph Wizard** and the **Graph Script** dialog can now be filtered to show only numeric fields. This will then limit the display to only Integer, Float and Currency fields in the Data Model. (SHARED-64875)

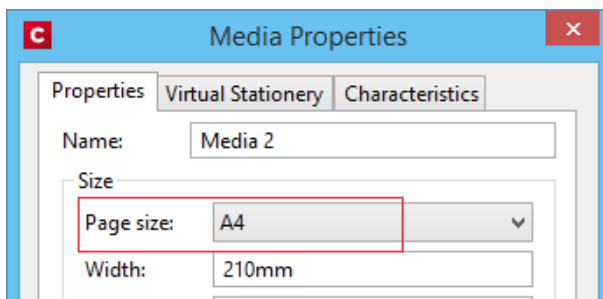


General Designer Improvements

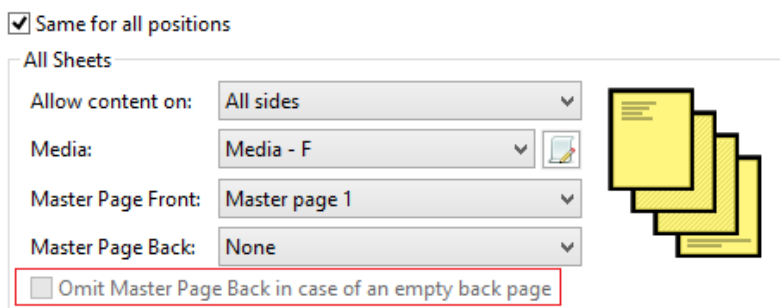
- **Download Remote Resources** (CSS stylesheets, JavaScript files, JSON and HTML snippets) to your template through a new context menu in the Resources view. This allows you to keep a link to a centralized file but quickly download a copy to your template without having to separately copy and paste.(SHARED-58949)



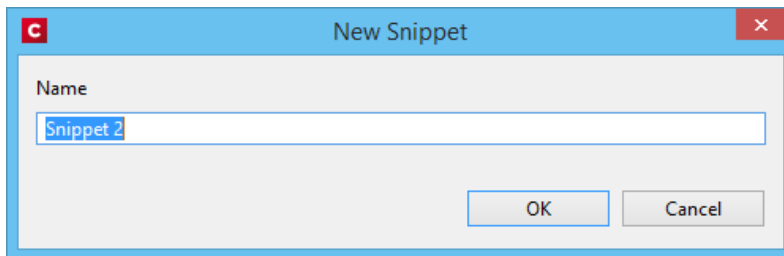
- **New Media** now defaults to the same paper size as the current Print Section. (SHARED-34012)



- Added an "**Omit Master Page Back in case of an empty back page**" option when configuring all sheets at once in the Print Section Properties. (SHARED-56383)



- **Media Properties** dialog behaviour improved. When any of the media in the Resources tree properties are changed, the "Page Setup" button gets activated and Designer prompts to save the media properties changes. (SHARED-62353)
- Disabled **irrelevant menu items** in the View menu when a Snippet editor is active. (SHARED-62816)
- When selecting content in the main editor, and selecting the context menu option of Create Shared Content or Create Snippet, you are now presented with a dialog in which to specify the name of the snippet resource. (SHARED-63217)

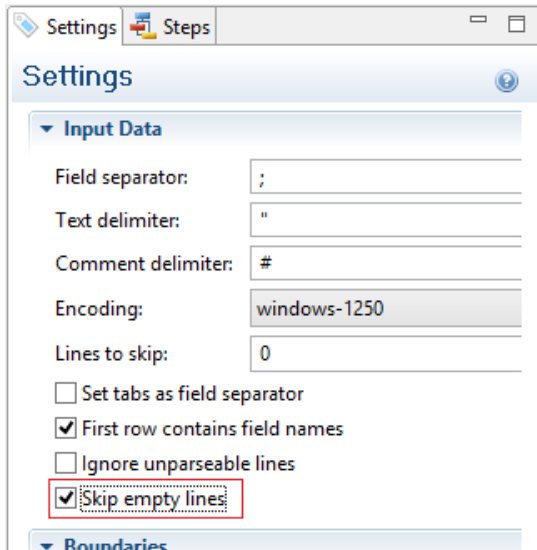


- Improved support for editing shorthand **!important** rules in the Edit Rule dialog. (SHARED-62863)
- **Preflight**: If a fatal error occurs during Data Mapping, the reported error will now also include the current record number. (SHARED-63089)
- **Help button** added to both the *Profile Scripts* and *Preflight* dialogs. (SHARED-63091)
- Template Wizard file comboboxes now add "Empty" value if not set. (SHARED-63294)
- Improved behaviour for when the **Auto Save** directory no longer exists. (SHARED-64428)
- Improved the way *Create Snippet* and *Create Shared Content* work. Creating a snippet for a selection of multiple elements in the Outline pane now creates a single snippet containing all the elements. (SHARED-64445)
- Improve support for UNC paths in Remote CSS. Connect now attempts to auto-correct UNC paths with the incorrect number of slashes. (SHARED-65308)
- **Zoom** options improved. (SHARED-64880/61294/61296)
- Apply button added to the Stylesheet **New Rule** dialog. (SHARED-60852)
- Fixed an issue whereby formatting could be lost after invoking undo or redo when the source tab is active. (SHARED-64734)

Connect 2018.2 DataMapping Updates

Ignore Blank Lines

Option added to the DataMapper Settings to **ignore any blank lines** in the data. (SHARED-57790)



Dynamic SQL Queries

Custom SQL queries now support the use of dynamic elements which can be built using JavaScript syntax. This allows an SQL query to use information passed on by Workflow to dynamically customize the query. (SHARED-34301)

For instance, a custom query could contain the following code:

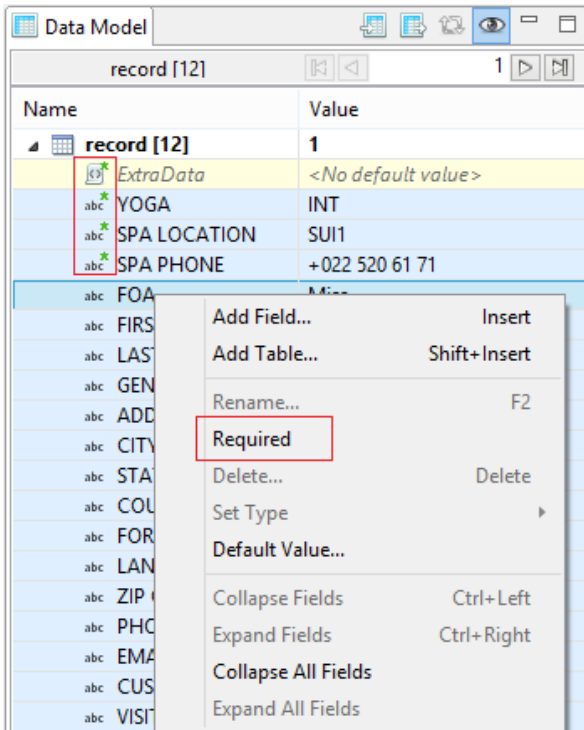
```
=SELECT {automation.variables.FieldList} FROM {automation.jobInfo.JobInfo9}
```

This would get converted dynamically to something like `SELECT id, name FROM MyTable` based upon the values of Workflow process variables *FieldList* and *JobInfo(9)*.

Set Data Fields as Not Required

Individual data model fields can now be set as **required** or **not required**.

By default all data base fields are initially set to being required. This new option provides the ability to set individual fields as not required. Non-required fields are indicated in the Data Model panel by a green asterisk (*) symbol after the field type. (SHARED-60067)



Landscape PDF Input

Rotated PDF pages are now fully supported in PDF input files. The DataMapper displays the pages in a human-friendly way that allows you to select and extract data according to the orientation. This allows the DataMapper to process PDFs that are either completely landscape or which contain a mix of portrait and landscape pages. (SHARED-37879)

Dynamic XPATH values

The Repeat Step, in XML mode, can now use dynamic XPATH syntax. This allows the Repeat step to loop through a subset of the entire record without having to use conditions to determine whether each element meets a specific condition. (SHARED-60081)

For instance, the XPATH statement for a Repeat step could contain something like:

```
=./address[@state="{automation.jobInfo.JobInfo9}"]
```

This would get converted dynamically to something like `./address[@state="California"]` based on the value of *JobInfo(9)*.

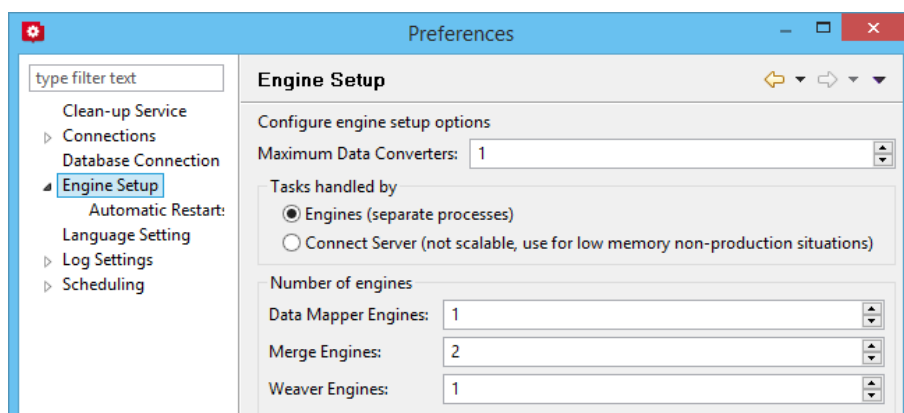
General DataMapping Improvements:

- Can now set default values to **ExtraData** fields, in the same way as other fields. (SHARED-61348)
- Improvements in the way engines communicate in a **multithreaded environment** which should see a reduction in the number of times an engine fails to register with the server. (SHARED-63036)
- Added detection of **duplicated layered text** (where characters are painted in the exact same location multiple times) during text extraction to allow ignoring the duplicates. (SHARED-63547)
- Fixed issues with the `data.find()` function in TXT and PDF files. (SHARED-65582)

Connect 2018.2 Server Enhancements

Engine Setup

The settings for the number of Connect Server engines to launch has been removed from the "Scheduling" settings page, which controls how the engines are actually used. They have been moved into a new "Engine Setup" page that controls how many engines of each type are to be launched. This also simplifies the Scheduling preferences page.



Automatic Engine Restarts

To safeguard server availability restarting the Connect engines periodically is recommended. Previously Connect engines would restart every 8 hours by default, and all would restart simultaneously. Connect 2018.1 added the ability to have engines restart in case of very bad memory usage as well. Connect 2018.2 has now introduced several improvements to allow further control over engine restarts:

- **Rolling restart**
Causes engines to restart one by one, instead of all at once. On systems with many engines this reduces the impact of restarts and increases engine availability.
- **Schedule restarts in quiet hours**
Instead of restarting engines after a certain amount of time, they can now be restarted during a specified time period. This allows engine restarts to be scheduled outside of business hours.

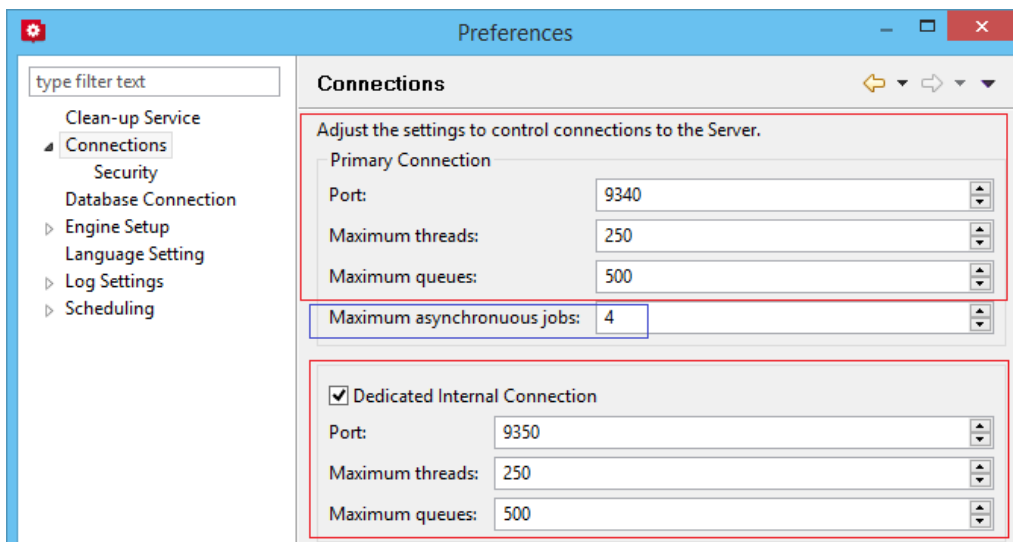
Improvements for high workload situations

On busy systems, with many requests to the PReS Connect Server (such as hundreds of simultaneous PDF preview requests), the internal communication between the Connect Server and the engines can now be set to use a different port from the primary connection port. This prevents the engines from being starved from connections to the Connect Server if the external connections are not closed fast enough.

These settings are located on the new “Connections” page of the Connect Server Configuration. The “Security” preferences page for the Connect Server connection is now a sub page of this new page.

The new settings are as follows:

- Allow inter-engine communication to occur on alternate ports, to reduce the chance of inter-engine communication being starved of connections when running on systems with a high numbers of HTTP connections. (SHARED-64035/65449)
See highlighted in red boxes in following image.
- Set the maximum number of simultaneous asynchronous jobs. (SHARED-64043)
Highlighted in blue box in following image.



Connect 2018.2 Output updates

Important Information

The Output Engine (Weaver) memory footprint has increased in Connect 2018.2. This means some users might need to increase their Weaver memory allocation in the **Engine Setup** preferences.

This is especially the case for PReS Connect users running cluster configurations.

Note: When running really large jobs, it often pays to increase Weaver memory allocation, even if only for the duration of the production job(s).

Font handling

- **Additional Content Text improvements**

When adding text as Additional Content in Output Presets, TrueType Collections (TTC) font files were not supported. TTC fonts allow a single file to hold multiple fonts types. Since TTC fonts can be important for Asian language fonts, we have now added support for these.

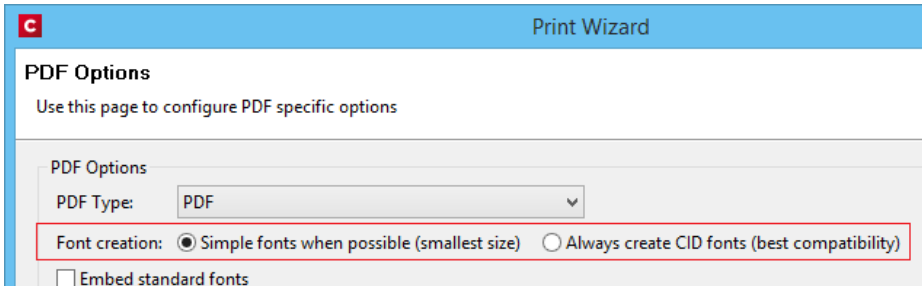
Previously, Additional Content text allowed selecting Bold and Italic for any font, even if the bold or italic version was not present. We now only display the font variation options for a font, if that font variation is actually available.

- **PDF Output font selection**

Added selection for either simple mixed byte font encoding (for smaller size) or fixed 2 byte CID fonts with identity encoding (for greatest compatibility) for PDF output. (SHARED-65462)

Connect always used simple fonts in its output, but dynamically switched to composite fonts when the number of characters in a font grew too large. This approach best reduced output file size. But in some cases the dynamic font creation caused viewing issues with certain PDF viewers, even though the font method is compliant with PDF standards.

To accommodate such, we have provided an alternative font creation method which always creates CID fonts with identity encoding. This results in larger output files, but provides better compatibility with PDF viewers.



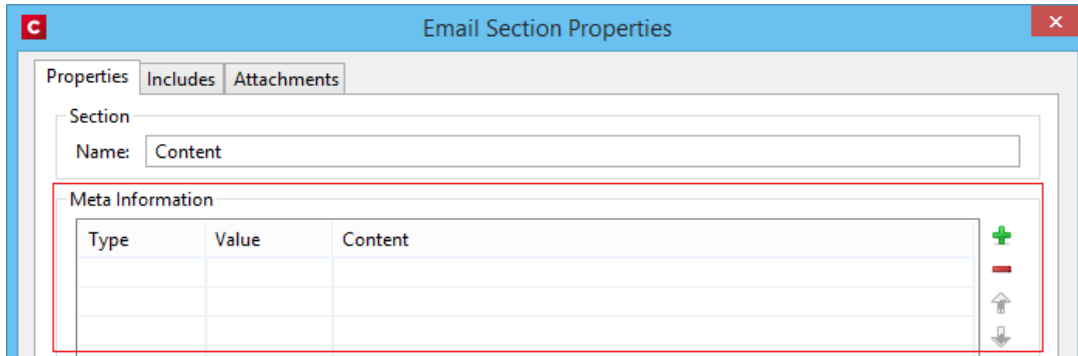
When generating PDF for non-Western languages, this new option may be the recommended choice.

- Asian language PDF output made smaller through improved glyph handling. (SHARED-63549)
- Further improvements made in handling simulated style fonts for OTF fonts. (SHARED-65402)
- Fixed an issue with output of TrueType font encoding information that could cause special characters to be missing or incorrectly substituted. (SHARED-62332)
- When a TrueType font "glyph count" information is incorrect Connect will now attempt to continue processing, rather than immediately throwing an exception. (SHARED-64382)

Email Output Improvements

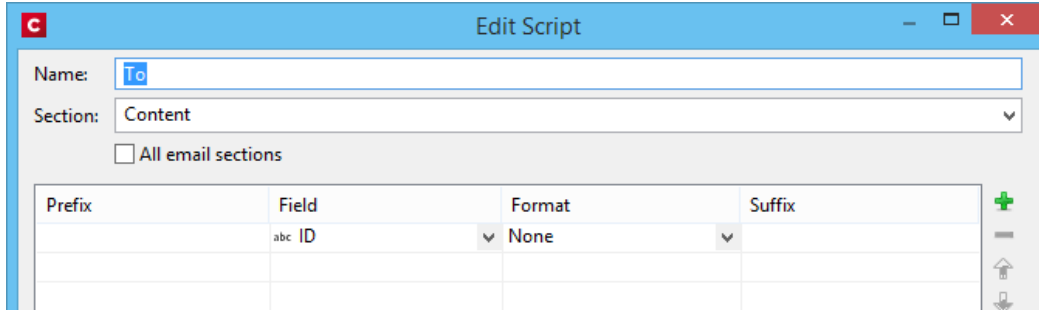
- **Meta information added to the Email Section Properties**

This allows viewpoint meta information to be added and configured in the email. This meta information will not be visible to the receiver, but can have an effect on how the email is represented in the email client. (SHARED-64761)



- **Email Script dialog improvements**

The email Script dialogs have been streamlined and simplified.



Improvements were made to the **To, CC, BCC, Reply-To, From, Subject** and **PDF Password** email scripts. (SHARED-61005)

- **Improved support for graphs in emails**

As email clients don't usually support SVG images, graphs added to an email context are now rasterized by default. There is also a preflight message for emails containing graphs set without rasterize options. (SHARED-60546)

Print Output Improvements

- **AFP output speed improvement** for image intensive jobs containing lots of pages. (SHARED-55831)
- If a template containing **linked annotations** (either URL links or email links) was printed to PDF as PDF/A-1b, PDF/X4 or PDF/VT, the resulting output file was not compliant to the specified conformance level. This has been fixed. (SHARED-61714)
- We introduced a way to create **custom TLE** and **NOP records** in AFP output, through a custom printer definition. These records can have variable content, and they can be created conditionally. At the moment there is no GUI option to create these custom records and their rules, but this is intended for a future version. (SHARED-65527)
- In PDF/A-1b, PDF/X4 and PDF/VT output the document title in the PDF metadata is now derived from the template name, rather than the full path of the output file name. (SHARED-61168)

General Output Improvements

- Output engine now warns instead of crashing if it encounters text with a non-invertible transformation matrix (such as a zero point size). (SHARED-59744)
- Output engine now logs a warning if an image in an encrypted PDF file cannot pass-through untouched. (SHARED-59802)
- Fixed uncontrolled appearance of optional content (such as virtual stationery) in documents that are processed by the transparency flattener. (SHARED-60923)
- Fixed handling of output paths with one or more dollar signs (\$) in them, such as certain network shares. (SHARED-63872)
- Several miscellaneous improvements to memory management.

Print Wizard and Preset Wizard Improvements

Size grouping

The ability to group documents by their size has been extended. In addition to grouping documents, you can now also group *document sets* and *job segments* by the number of pages. And instead of just using the page count, it is also now possible to use the sheet count for the size of the documents, sets, or segments. This makes size grouping useful for jobs that might contain both simplex and duplex content. And size grouping can now be used in combination with commingling when mail pieces can have multiple documents. (SHARED-61192)
This was previously referred to as “page break grouping”, and is found on the same Grouping Options Wizard page.

Grouping Options
Use this page to configure grouping the output into jobs, job segments and document sets

Job Grouping Fields | Job Segment Grouping Fields | Document Set Grouping Fields

Selected Fields:

Field Name	Sorting Option
CUSTNUMBER	Ascending

Available Fields:

- ExtraData
- FOA
- FIRSTNAME
- LASTNAME
- GENDER
- ADDRESS
- CITY
- STATE
- COUNTRY
- FORMAT
- LANGUAGE
- ZIP CODE
- PHONE

Size Grouping

Grouping Level: Job Segment

Item to group: Document Sets

Group by: Sheet Count

Size groups in reverse order

Size grouping after normal grouping

Meta data property: ItemSize

Size Ranges

Range Name	From	To
SinglePage	1	1
C5	2	5
Oversized	6	Largest

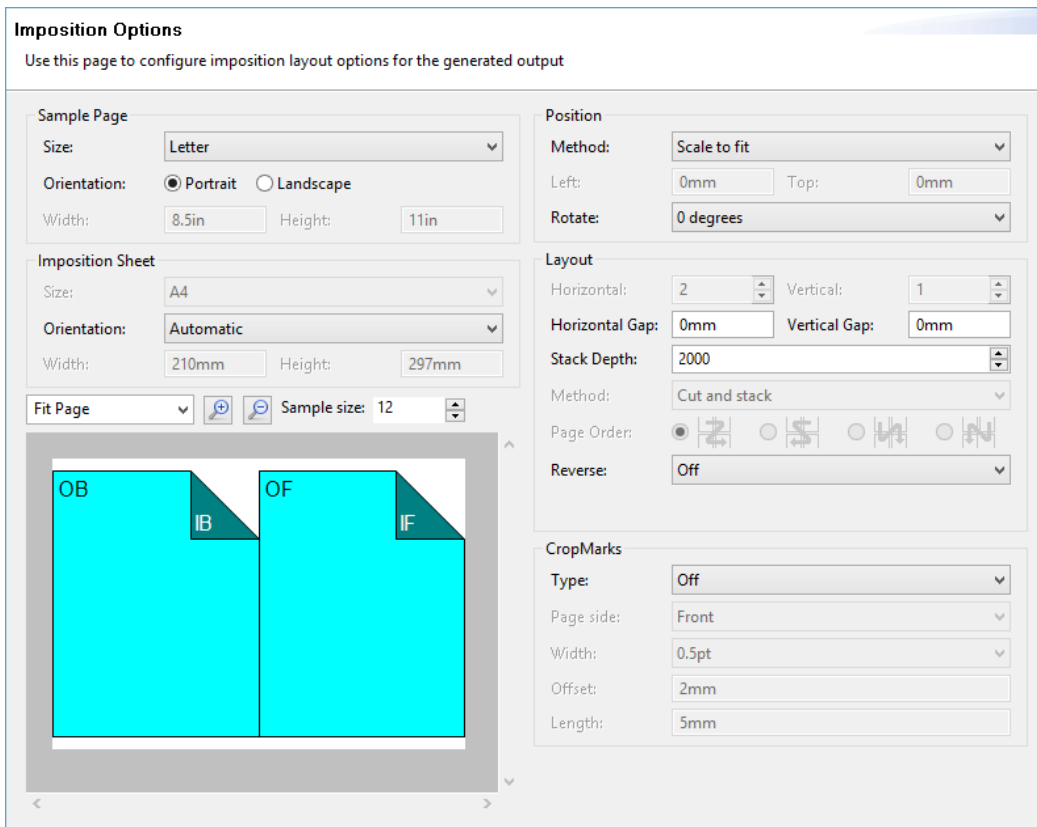
The settings used in the screenshot above groups documents into document sets by their customer number. Size grouping then creates three different jobs segments: the first with sets of only 1 sheet, the second with sets of 2 to 5 sheets, and a third with anything of 6 sheets or greater.

Tip

In Output Creation, you could create an output file per job segment, and use `${segment.metadata.ItemSize}` in the output file mask to automatically name these files appropriately.

Impositioning

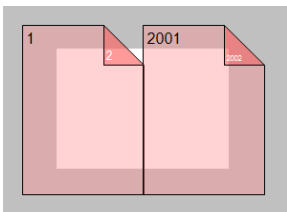
We have made a number of improvements to Impositioning, both by improving usability and by adding new features. These changes led to a redesign of the layout of the imposition wizard page, with some options being moved and others renamed.



The major improvements are as follows.

Visual warning

The page layout diagram now displays in red when the selected imposition options do not fit the selected sheet.

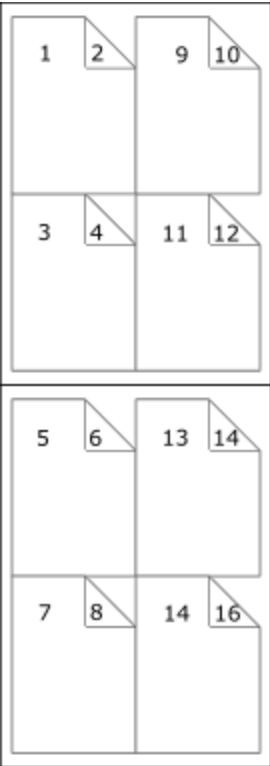
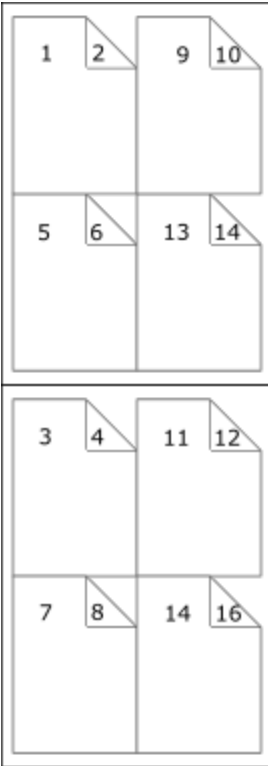


Sample page for imposition

The imposition settings are not always meant to work with just your current template. So we have added a sample page setting that will be used for both the preview and the validation of the settings. This sample page now defaults to the size and orientation of the first section of a template, instead of its first media.

Stack by Column

Alongside the existing cut and stack impositioning order, we have introduced an imposition order that is more suited for continuous feed printing when the imposition has multiple rows. We call this new ordering “Stack by Column”, and it is very suitable for roll fed label printing. It works like this: instead of always positioning the subsequent page on the next sheet (until the stack depth is reached), stack by column first goes to the next row down on the sheet, and then down in the stack. The effect is that if all sheets are layed out top to bottom consecutively, the imposed pages are ordered by column. If the imposition has only 1 row, both methods are identical.

Comparison of Stack by Column and Cut and Stack with 16 duplex pages in a 2x2 imposition.	
Stack by Column (top to bottom, stack down, left to right)	Cut and Stack (stack down, top to bottom, left to right)
	

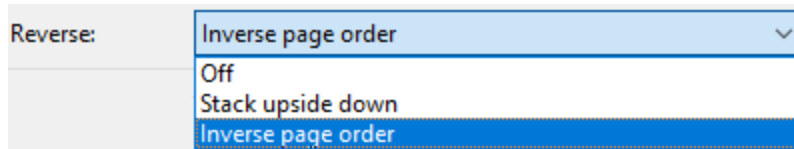
Reverse impositioning

In roll fed applications, reversing the imposition order can be very important, because, when done properly, this causes the roll output by the printer to have the first page on the outside of the roll, allowing the roll to start with the first page.

Our existing option to reverse the order of impositioning is reversing the order of the resulting imposition sheets by starting with the last side of the last sheet, and then going backwards. This effectively turns the stack up side down. It also means that, in case of duplex impositioning, all back sides become front sides and vice versa.

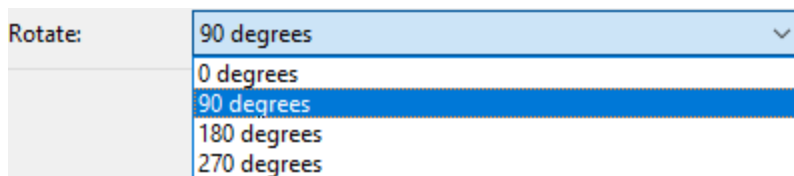
To have an effective way of reversing a Stack by Column imposition that leaves the “by column” order in tact, but that starts at the last pages in the job, we have added a new option to reverse the imposition, that basically reverses the incoming sheet order before impositioning. The effect is that not only is the order of the imposition sheets reversed, but the order of the pages on the sheet is also reversed.

To properly distinguish between these two ways of reversing, we have renamed our existing reverse to “**Stack upside down**”, and our new way of reversing is called “**Inverse page order**”.



Rotate imposition

In addition to our existing options of having your imposition either upright or rotated 180 degrees upside down, we can now also rotate your imposition by 90 or 270 degrees.



Selective Inserts

Selective inserts in the *Inserter Mark Options* page now support metadata menus for inserting metadata field names in selective insert conditions. (SHARED-61152)

New AFP Options

We have introduced a new **AFP Options** page, to provide greater control over AFP output. (SHARED-63234)

Connect already had the ability to add metadata properties from Job Creation as TLEs to the AFP output. However, the earlier implementation did not support creating TLEs for specific pages, or for adding TLEs at the page level (which allows different values for each page).

TLEs are often used to mark the start of documents or mail pieces, to indicate media types, locations for inserts (including the name of the insert), and other properties required for print production. To accommodate this, it is now possible to conditionally create both TLEs and NOPs in AFP output by using inserts in custom printer definitions.

In addition to this, we have also added settings to control which job elements page groups will be created in the output. Earlier Connect versions would always create page groups for all job segments, document sets and documents, which would lead to pages being nested in three levels of page groups. Now you can choose to have just one level of page groups, or even no page groups at all.

AFP Options
Use this page to configure AFP specific options

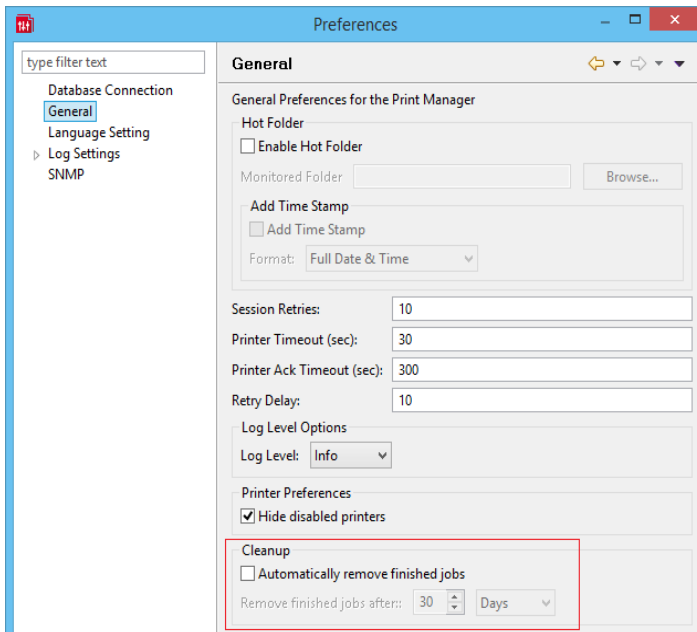
Page Groups	Options
Create Page Groups for: <input checked="" type="checkbox"/> Job Segments <input checked="" type="checkbox"/> Document Sets <input checked="" type="checkbox"/> Documents	<input checked="" type="checkbox"/> Create TLEs for all metadata properties

To make sure that metadata properties from Job Creation do not interfere with dynamic TLEs from the printer definition inserts, this page also has a setting to turn off TLE creation for metadata properties.

Connect 2018.2 Print Manager updates

Job Cleanup Improvements

Option added to have finished Print Manager jobs automatically deleted after a set period of time. (SHARED-62981)



General Print Manager Improvements

- **Date formats** made consistent in the *History* tab, to assist in date searching. (SHARED-59679)
- **Text files** (*.txt) are now treated the same as comma separated text files (*.csv) in Print Manager. (SHARED-64666)
- Fixed issue with **IPDS Preview** of GOCA content sometimes displaying random lines across the page. (SHARED-63331)
- Fixed issue with printer connection not always closing after querying printer capabilities. This sometimes led to failures in subsequent printer capability queries. (SHARED-64498)

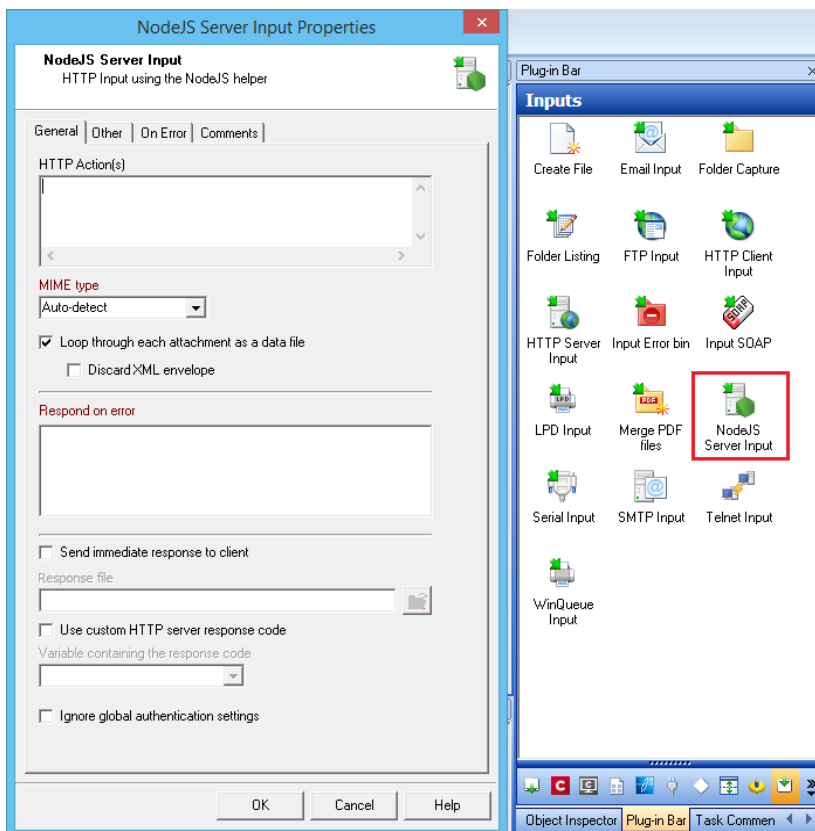
Workflow 2018.2 Updates

New HTTP Server Input - NodeJS

An alternative HTTP server option now ships with PReS Connect Workflow: **NodeJS Server Input**. (SHARED-62247)

The new implementation is backward-compatible with the existing HTTP Server Input (except for PlanetPress Capture requests), but also introduces several new capabilities. These include:

- The ability to serve static resources from several folders.
- Redirect requests to other servers using a Proxy list.
- Authenticate users using ActiveDirectory via LDAP.

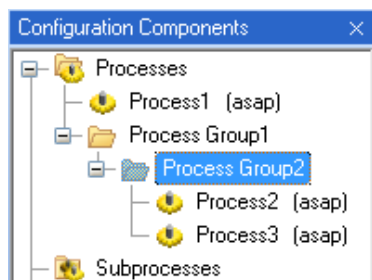


Note: It is possible to use both the NodeJS Server and the standard HTTP Server simultaneously, provided they are not set to listen to the same port.

Process Grouping

Support has been added for nested Process grouping in the Workflow Configuration Components. (SHARED-65457)

Groups can be added to existing groups, moved from one group to another or ungrouped within another group.



In addition, multiple startup processes can now be defined. (SHARED-65454)

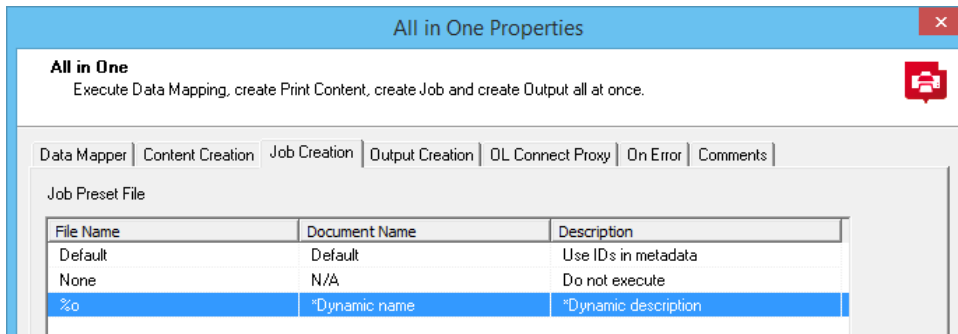
This allows you to create startup processes that are specific to certain projects (or groups, or subgroups) and to specify the order in which the processes should run at launch time.

Combined with the multi-level process grouping feature, this allows you to design full projects of related processes that are initialised with their own specific startup process. With this capability, you no longer need to modify an existing, tried and tested startup process when introducing new functionality that requires some level of initialisation. Instead, you can simply create a new, distinct startup process that takes care of initialising values for the new set of processes.

Connect All-in-One Improvements

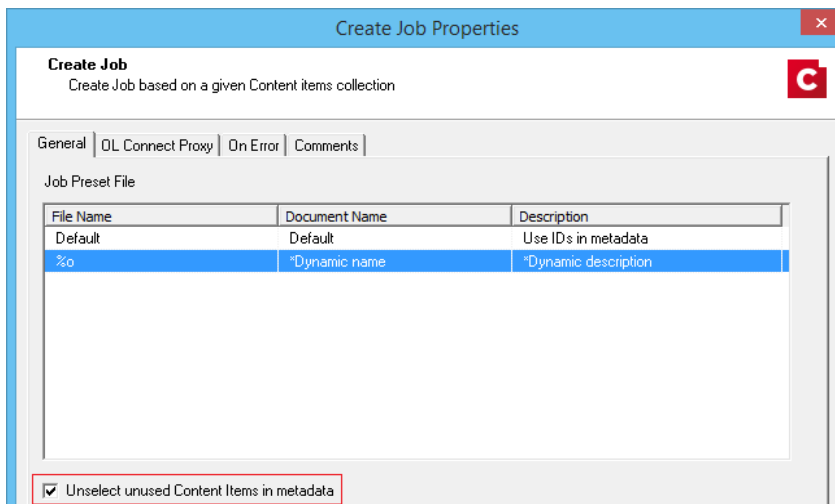
- *DataSet ID* now available in Workflow metadata after the All-In-One plugin has run. (SHARED-60116)
- When the last All-In-One operation is a Content Creation, proper record IDs are now available in the metadata. If the data comes from JSON, the record IDs are set to zero. (SHARED-63676)

- All-in-One can now accept a **Job Preset configuration**. The settings for this are contained in the new Job Creation tab. (SHARED-33510)



Create Job Improvements

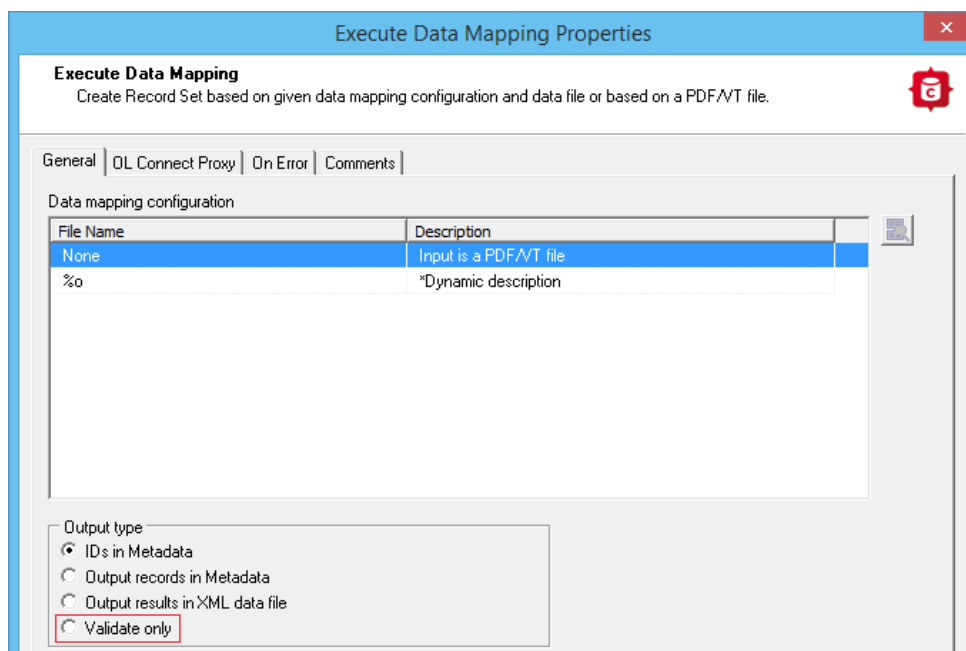
- New option has been added to show only those Documents which are included in the job. (SHARED-53893)



- All Content Set IDs are now stored in the metadata returned by the Create Job task. (SHARED-61056)

DataMapper Validation

Option added to **Execute Data Mapping** to validate the records without actually extracting them. This provides an elegant option for determining potential data errors prior to actually running the job. (SHARED-57946)



When running with this option, the Data Mapping task returns a summary of the data mapping job as well as a list of records that would generate an error, if any. Since no data is extracted, the operation is very quick and may save you a considerable amount of time by allowing you to check for errors prior to actually running the job.

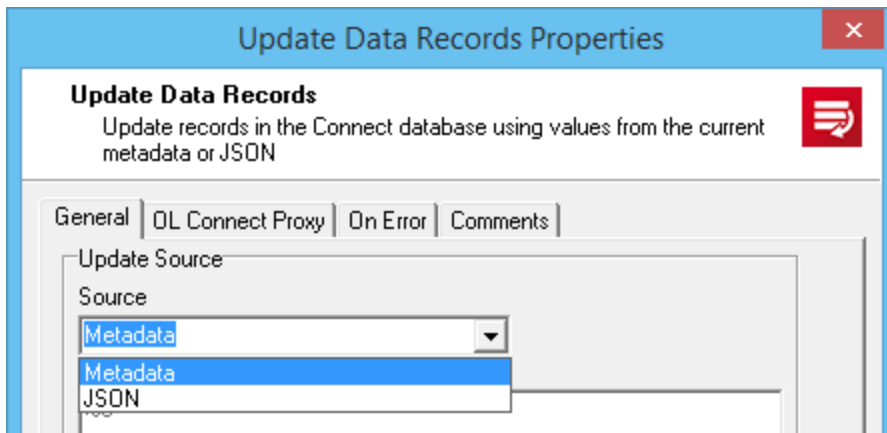
Improved Logging

All tasks now include their Task Index (relative to their process or sub-process) in a fixed location on every entry they log.

The Task Index can be found between square brackets immediately after the time-stamp for each entry. (SHARED-64725)

Connect Workflow Improvements:

- The **Update Data Records** task now supports JSON data with detail tables, as well as Metadata. This allows the task to modify not only records, but also the information in any detail table for any record. (SHARED-55419)

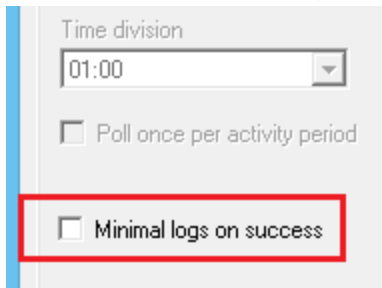


- Improved error handling when invalid JSON data is passed to a **Create Content** task in Workflow. (SHARED-63584)
- **Retrieve items** with Record ID list now trims white space from end of Record. (SHARED-63603)
- When a **Retrieve Items** query returns multiple job sets, all the Job Set IDs are now stored in the Workflow Metadata at the Job level. (SHARED-64730)
- Improved **Create Web Content** task support for anchors. (SHARED-65445)

General Workflow Fixes and Improvements:

- Workflow will now *retry Connect commands only once*, and only when the configuration files are no longer valid (as determined by a 404 return code in the REST API). (SHARED-59821)
- Deleting processes and subprocesses now prompts for deletion confirmation. (SHARED-61378)
- The **Comments** tab in the **Branch** plugin now has a "*Use as task description*" option, to allow the comment to be used as the description in the Workflow process. (SHARED-61056)

- Optionally log only successful start and end times of any process, in the **Workflow process options** dialog. (SHARED-64698)



- Fixed potential security threats in **HTTP Service** static resources serving. (SHARED-61144)
- Timeout in Connect Send *Get Job Data* plugin now works as expected. (SHARED-61308)
- *GetKeySets()* command made backwards compatible. Command now retrieves all keys when parameter list is left empty or if the select all character '*' is used. (SHARED-64160)

Known Issues

As of PReS Connect 2018.1 the Known Issues have moved from the Release Notes to the Connect online Help.

They can be found [here](#).

