

Merge

- Added support for internal links when using the PDF driver. See [Internal Links](#).
- Enhanced the -filterOutput option by creating necessary file path folders in advance of copying a data file.
- Fixed the font selection in cases when an SFP font is downloaded in PCL5 output.
- Fixed the PDF/UA tagging structure for charts.
- Fixed the PDF/UA mode to support transparent images.
- Added PDF/A-3a mode support. See [-mode](#).
- Added ReadOut tag support in PDF/UA mode to resolve placeholders with object data. See [Object Tags](#).

Design

- Removed the Initial Values from the label to field conversion process and introduced the option -LabelToFieldRetainText for backward compatibility. See [Design.prm](#)
- Enhanced the Ctrl+Alt+N shortcut to support concurrent file viewing.
- Fixed embedded images updates when the referenced image file on the server is modified.
- Enhanced implicit-data-mapping highlighting to support root element names containing a colon.

FormConvert

- Object Alignment
 - Fixed the "lr-tb" alignment when the object width is auto-fit and not explicitly defined in the XDP.
 - Fixed the caption field "tb" alignment caused by incorrect subform offset resets.
 - Fixed the Field with Caption alignment by introducing a wrapper group for proper "Flow Top to Bottom" layout behavior.
 - Fixed misaligned Fields in some specific cases.
 - Fixed label text alignment when incorrectly overridden by table cell alignment attributes.
- Object Size, Position, and Visibility
 - Fixed Panes overlapping in some cases.
 - Fixed incorrect group height calculations caused by ignored group margins.
 - Improved handling of object size when minH and minW are specified for labels or fields.
 - Fixed overly wide PN/PC labels by recalculating widths for width-adjustable floating field objects.
 - Added mapping of XDP presence="inactive" and relevant="-print" attributes to DocOrigin using visible="no" during conversion.
 - Applied corner radius only when `join="round"` is specified.
 - Made label borders invisible for fields with captions to prevent merged-border rendering issues.
- Font Handling and Paragraph Attributes
 - Fixed missing tabs following bullets in RTF text.
 - Improved paragraph formatting by replacing the PS symbol with '\n' in labels.
 - Fixed incorrect font selection after bullets in RTF text.
 - Added support for font references using the XDP '' mechanism.
 - Added support for 'hangingIndent' based on XDP 'textIndent' attributes.

- Table Handling
 - Resolved text truncation in tables by adjusting object height and width calculations to account for the area surrounding embedded text.
 - Fixed handling of XDP table cells with presence="hidden" so hidden cells no longer consume table column slots after conversion.
 - Added support for processing XDP table bind data containing wildcards ("[*]") to construct the corresponding table object hierarchy using Panes.
- Fragments Support
 - Added fragment library linking support by processing the XDP subform "usehref" attribute to generate links to .xatwlib fragment libraries located in "\$U/Library/". Preserved fragment SOM object naming while normalizing page/container path prefixes, and added linked libraries for top-level form objects as new pages.
 - Added the option -convertAsFragment to make the fragment automatically resolvable in DO Design by removing the page and container names and setting the output file extension to .xatwlib.
- Data Processing
 - Improved data binding retention on conversion by trimming the *xfa.record* from the BindData tag.
 - Added support for date picture formatting.
- Scripts Support
 - Moved object notes into event scripts and mapped XDP activity attributes to corresponding event handlers
 - `prePrint` → `OnStartPrint()`
 - `docReady`, `docClose` → `OnEndDocument()`
 - all others → `OnEndMerge()`

Merge

- Fixed the -fragmentAutoResolve option to support external library script references in single quotes.
- Fixed the -fragmentAutoResolve option to execute external library scripts after fragments are resolved.
- Fixed PS2 driver font handling for rotated fields.
- Fixed PS2 driver font handling to exclude ASCII characters from the font header if they are not available.

JDE

- Fixed null pointer exception for OsaXmlToDataBlueprintGenerator.

Merge

- Added OAuth2 email support (sending emails without a queue).
- Fixed a bug with data merging in Groups, where in some scenarios, data with a DOM like A.B.C got into the document Group with a DOM like A.B.D.
- Added file size optimization to the PDF stitching process.

SendMailServer

- Added OAuth2 email support (sending emails with a queue).

JDE

- Added Control type to the Blueprint report.
- Added the option *-splitDocsByPage* which splits data into documents by PDF pages.
- Added the option *-includeRC* which includes Report Constants to the data and form.
- Synchronized *-osaXmlInputFixup* behavior on Java versions 8 and 21. (Since Java version 18, the default codepage is UTF-8.)

Setup

- Updated the End-User License Agreement.

Design

- Fixed issue when a linked fragment using 'Hide in design' produces an unnecessary warning message in the Form Verification Report.

Merge

- Introduced Merge option [-ps2CacheCompressImages](#) to enable reuse of compressed images across pages. This significantly reduces the PS2 output file size when the same image (for example, a logo) appears throughout a document.

RunScript

- Allowed `_file.copy` and `_file.readFile` to perform in cases when a file is opened by another process or application.

Design

- Improved "Save prn" functionality in the Preview dialogs. If the -logfile merge option is not specified, it is automatically added to the .mprm file using the log file name that is based on a form name. The absolute path is not used anymore for option -form and for option -data if the data file is located in the same folder as a form file.
- Added support of the new log parameter for external tools. See [DocOrigin Design External Tools](#)
- Increased the Grid Interval and object positioning precision to four decimal places.
- Fixed loading and storing of custom colors for the font color option in the toolbar to make it consistent with the color tab option.
- Added word wrap to the Notes dialog. Notes button is added to the dialogs: Object, Pane, Field, Table, Raw. Notes editor for multiple selected objects is not supported.
- Extended Notes Editor with possibility to enter tab in a text.
- Enabled the "Find Next" and "Pick All" functionalities for the Form and Page objects.

Merge

- Removed warning for embedded field names beginning with "\$" that are not standard autofields such as \$Date.
- Added escaping of special XML characters for PCL driver embedded data, when PCLExtract command line tool is used with option -extractdata.
- Added escaping of special XML characters for PS2 driver embedded data, when PS2Extract command line tool is used with option -extractdata.
- Fixed incorrectly encoded evaluation spoiler if Form contains WingDings font.
- Columnarized Panes now support "ForceNewColumn" Tag which forces the Pane to start from the beginning of the (next) column.
- Fixed Force Page for columnarized Panes.
- Assigned precedence to bindData values over initial values, treating initial values primarily as default or backup values and giving the data file priority over them.
- Fixed embedded, unformatted date fields. The formatted date field's value was empty if a picture mask was not set.

ConfigEditor

- Added functionality to collect used paper size IDs and notify the user that these IDs cannot be used for creating new paper size items. Removed unused "Select paper size (portrait/landscape)".

FilterEditor

- Fixed Unicode support to Rules and children on filter saving.

ConvertDatToXml

- Added _z option to the _session object for enhanced processing in ConvertDatToXml. See [_session](#).
- Fixed embedded fields parser. Three adjusted embedded fields separated by a period were incorrectly parsed.

JDE Converter

- Added -splitDocsByNode option to split XML input into documents at the specified node.
- Introduced a new occurrence-based algorithm to replace -jdeSectionsDefinitionAuto, improving wrapped line handling using metadata.
- Added -docDefiningNodeID option to disambiguate multiple items with the same name.
- Added -osaXmlToBlueprintXml and -jdePdfToBlueprintXml options to map JDE-to-DO names and track control maxOccurrences in the XML report.
- Renamed some converter options for improved clarity and consistency, see [JDE Converter](#).
- Fixed Unicode handling during PDF parsing.
- Added OSA's Report node into data xml.
- Improved overall conversion stability in different situations.

Merge

- Fixed unexpected behavior in case of multi-column Panes and Global Fields.
- Improved parsing of the TTF fonts (like Postnet) for some rare cases.
- Introduced new Merge option and Tag “AllowFieldSizeReset” which allows the Field size to be reset back to the original size in some cases. See [-allowFieldSizeReset](#)
- Improved PDF Bookmarks - now it is allowed to create Bookmarks with non unique names.
- Fixed “dot” artifacts in charts when the chart settings LegendLabel is empty and LegendSwatchSize == 0.
- Added new property `_data._outsideOfDocs` which allows access to the input data located outside of the Document scope. In some cases it may be useful to get some “global” items. Implemented only for the XML input data. See [_data \(The Data DOM\)](#)
- Improved email address validation (checkaddress argument) in the `_sendmail` functionality. See [_sendmail](#)
- Fixed bug in external filters when %in and %out parameters were not properly replaced with the values.
- Updated samples: Sample_Invoice.xatw, Sample_Invoice_Cover.xatw and Sample_Invoice_ExpandedDetail.xatw.

Scripting

- Fixed the `_profile.getNextSection()` function in Profiles to parse all sections.

ConvertDatToXml

- Improved `-substitute` option to support multi-line replacement text. See [ConvertDatToXml Filter](#)

Merge

- Fixed bug in Auto-generate test data when initial value is longer than approximately 1000 characters or more.
- Improved the Merge Log message when "Allow Split" is off to display the path where the object(s) cannot split.

Scripting

- Added Unicode support to _file.zip/unzip functions. See [file.zip](#)

FilterEditor

- Fixed rare issue when string parameter (like “.00”) was incorrectly considered a number on save operation, causing an error on the following XFilter opening.

Other

- Added JDEConverter tool to the setup.
- Expanded Chunkify tool command line options and added support for \$ String Substitutions. See [Chunkify tool](#)
- Updated Samples supplied with the setup.
- Updated .NET Framework requirements from 4.5 to 4.6.

Design

- Added Tags docking pane.
- Updated docking pane icons.
- Added new currency formatting picture template.

Merge

- Improved logging for image processing errors.
- Improved data merging algorithm by fixing anomalies when the parent data node replaced a field value with an empty string, which had previously been given its value via the “bindData” tag.
- Introduced “NoStretch” Tag and Merge option to disable automatic vertical stretch of the objects. See [-noStretch](#)
- Removed redundant empty lines in the EML HTML layout.
- Improved the visual appearance of the auto-generated sample data for the Form.
- Fixed a rare issue when Pane could fall beyond the Container bounds.
- Enabled optimization for multi-column panes processing.
- Fixed a bug in PDF: the URL text with spaces caused the following characters to be blue.
- Fixed an issue causing redundant empty panes to be inserted.
- Fixed issue in `_file.copy()` function when copying to “prt:.” did not support forward slash.
- Extended option `-showNames` to display a name without a full path. See [-showNames](#)
- Added option `-showXATWnames`. See [-showXATWnames](#)

FormConvert

- Fixed the issue when two PRTs could be loaded simultaneously in the Design.
- Improved the gray shades conversion to better match the Adobe Designer colors.

FilterEditor

- Improved usability: keep “OR” mode for new Test items if the user chooses to use “OR” for the Rule.

Other

- Setup: Updated DO Samples.
- Updated Default-Paths.prm - changed \$\$ from \$U/Forms to \$U/Scripts.
- Setup: Removed some old unused PRTs.

Merge

- Fixed an issue where multiple output files were generated when using the “prt:” or “file:” prefix with the “-combineDocuments Yes” option.

FolderMonitor

- Resolved a rare issue that caused an unexpected exit when logging at the “-logSeverity ERROR” level.
- Improved file operations stability on unstable networks by introducing two options “-fileOperationsRetryCount” and “-fileOperationsSleepTimer”. See: <https://docs.docorigin.com/reference-manual/foldermonitor/command-options-foldermonitor>

Design

- Fixed bug when the Locale goes off the screen.
- Added ability to auto change Split option for all parent objects.
- Improved Script Dialog by adding “Comment/Uncomment All” script buttons in Script Editor and Script Overview window.
- Improved matched nodes highlighting in Data Explorer.
- Improved font matching for better WYSIWYG experience for ZPL fonts.
- Improved Line object selection experience with the lasso technique.

Merge

- Extended licensing information output on no-parameter Merge run.
- Fixed unexpected exit in SendMail in sequential SendMail executions.
- Improved ^form handling by ignoring quotes in its value.
- Fixed bug when image is not shown in some email client.
- Fixed unexpected exit in PDFExtract in some cases like page count.
- Added File Name Placeholder processing for -EMLoutputfile option.
- Improved RTF text embedding for plain text Labels.
- Implemented the -embedPlainTextAsRtf for [!Profile xxx].
- Improved stability on image processing while parsing not fully valid JPEG.
- Improved text positioning for ZPL by making “-textPresentment 1” by default in ZPL Configuration files.

FormConvert

- Embedded DeMargin External tool that always removes Pane margins and repositions objects accordingly.
- Improved processing of embedded fields related to appearance of the redundant #floatingField fields in the output XATW.
- Improved algorithm by moving all objects located outside Page to the Page and setting the "visibility" to NONE.
- Add functionality to remove "global_" or "group_" prefixes from embedded global fields.

Configuration Editor

- Fixed issue when some fonts are checked in the font list by default.

Other

- Added Chunkify.exe to the Windows setup.

Design

- Added a new dockable window for Scripts.
- Improved visualization of Visibility=Invisible labels.
- Fixed image visualization issues when using alignment commands.
- Restored justification functionality of TextLabel.xml and M_TextLabel.xml.
- Applied fix to keep current tool selected even after failed application (AutoField Tool).
- Fixed inability to remove OnSplit Footers in some cases.
- Fixed artifact when moving object with negative coords with arrow keys.
- Added warning MessageBox when Pane's minHeight exceeds the Container height.
- Fixed PDFPreview to support Unicode characters in a file path.
- Fixed "Use PDF as Template" in Design to support Unicode in a file path.
- Fixed object jumping while dragging on the canvas.
- Deactivated Locale button for Labels of type Image and Text.
- Fixed a PDF Preview bug when a datafile path contains the parent directory reference using two dots (..).

Merge

- Overhauled Stitching functionality with Duplexing.
- Improved the Globals search algorithm when working with BindData, InitialValue and values set via Scripting.
- Fixed processing when the form path contains Unicode characters.
- Added a log Warning when the Pane minimum height exceeds the Container height.
- Improved stability while working with partially incorrect TIFF images.
- Fixed line duplication when "-printInDocumentOrder" is set to "Yes".
- Added a log Warning if no documents were generated.
- Fixed ZPL driver incorrectly segmenting strings with URL while "-TextPresentation 1" option set.
- Fixed wrong printer name (LJ4) for Default-PCL5(Color).prt files.

FolderMonitor

- Fixed broken log portion extraction (to the Error folder) if data file processing failed.
- Fixed processing of data files without extension in some cases.

FilterEditor

- Fixed crash when user cancels out of the New Action Step dialog.

Other

- ConfigEditor: Allowed user to create a page size with a 1-inch measurement (Height or Width) for any PRT type.
- Windows Setup: Updated Curl to v.8.4.0.
- ConfigEditor: Fixed font listing with "Regular" keyword in its name.

- Design and FilterEditor: Introduced a PRM option (-DataFileFilter) to add additional data file type filters.
- FormConvert: Always set Min Height to .001".
- FormConvert: Move all objects outside the page bounds to the page and set Visible=none.
- Linux and AIX Setup: Added Default-PCL* PRTs.

Design

- Added message which proposes using a recovered form version from the AutoSave folder when applicable.
- Fixed Preview errors when the current folder contains custom files with the extension “.prt”.
- Removed remnant "*" mark on the OnSplit Headers/Footers buttons in some cases.
- Removed redundant Undo action from OnSplit Headers/Footers when user selects OK despite no changes being made.
- Fixed Pane size calculation when Container with margins is resized.
- Returned missing Finalize, PDF Input, and HTML Input script events to script dialog.
- Fixed multiple barcode drawing artifacts.
- Disabled justification and underline formatting actions for barcode objects.
- Added DesignVersionCreated and DesignVersionModified values to XATW on New/Save operations.
- Fixed Undo/Redo actions of Group layout changes to include child object positioning.
- Fixed incorrect coordinates in the status bar while banding (click and drag).
- Improved available space check for newly inserted Panes and reduced number of errors shown.
- Fixed issue where QR code tag changes were not reflected in Design.
- Added selected objects count to the status bar.
- Updated UI icons.

Merge

- Added a new command line option (-spoolerJobOwner) to control the spooler job owner name. See <https://docs.docorigin.com/reference-manual/merge/command-options-merge/spoolerjobowner>
- Fixed issue when redundant footer was inserted at the end of the column.
- Fixed issue when BindData tag reuses object value if not found in multiple document case.
- Improved Global Field search algorithm to find values set via BindData tag.
- Fixed issue when _dataSource was set only for the first instance of the Global Field.
- Fixed pagination algorithm not to ignore Container bottom margin.
- Fixed issue when redundant empty Container was added if the form contained a single columnarized Pane.
- Fixed unexpected exit when using %f or %F in the -output.
- Fixed issue with incorrectly aligned text under some barcodes.
- Fixed incorrect auto-ratio (0) for barcode Code11.
- Fixed incorrect generation of barcode GS1-128 checksum in some cases.
- Fixed value leak for barcode 2of5 if multiple barcodes of that type are used.
- Fixed issue where the wrong text codepage for barcode Code128 was used when Barcode128CharacterSet tag was used.
- Improved object specificity in logging messages.
- Fixed “Summary” XML to use correct document tag name when input data contained custom document tag.
- Fixed issue when using "-stretchFields Yes" caused lost text alignment.

- Added -stretchFields tag. See <https://docs.docorigin.com/reference-manual/merge/command-options-merge/stretchfields>
- Fixed “*Select*” ability of the WIN driver. See <https://docs.docorigin.com/reference-manual/merge/command-options-merge/output>

Scripting

- Fixed _logPrintf function to output Unicode characters properly.
- Added log warning if XmlFile functions are used after .close() has been called.

FilterEditor

- Extended "Append" action step with concatenation and trimming sub-options.
- Added multiple enhancements to the Action JavaScript code dialog.
- Fixed issue with incorrect extraction in some cases when the data file has the first line empty.
- Fixed issue with unexpected change to StoreAs value (in Rules) when adding a new item to XML tree.
- Added "Remove empty nodes" option to the New Filter dialog.
- Enabled Move Up and Move Down context menu items for Action steps.
- Changed default operation of tests from OR to AND.
- Added FilterVersionCreated, FilterVersionModified, FilterDateCreated, and FilterDateModified values to XFilter on New/Save operations.
- Updated UI icons.

Core

- Added milliseconds to log timestamp.

Other

- Updated barcode options in ZPL PRTs, Default-Zebra.xatwlib and Default-Tags.json.
- ConfigEditor: Added EML printer type so that now EML PRTs can be saved.

Design

- Introduced new Tags dialog with predefined tags list. Added dependency on .Net Framework v.4.5.
- Increased custom line spacing (LPI) accuracy to 6 decimals (the exact microns). Removed duplicated line spacing control from modal font dialog.
- Added "*.txt" filter to PDFPreview's select data file dialog.
- Fixed search for "Each Script within the Form" to go through all scripts instead of showing only the first script found.
- Fixed font size sorting in the toolbar for "hardcoded" 3-digit-wide font sizes.
- Fixed cursor flickering on mouse move when an object tool is selected.
- Fixed unexpected exit when an External Tool used in a custom toolbar (Tool 1-10) was removed from the Design.prm.
- Fixed improper relocation of a newly added object in Groups with layout "flow top-to-bottom".

Merge

- Fixed column balancing for a columnarized pane when it has a bottom margin.
- Fixed bottom margin handling for columnarized pane on pagination.
- Fixed height calculation for unbalanced columnarized pane in case of three or more columns.
- Fixed layout calculation for unbalanced columnarized panes:
 - for the "force page" case.
 - for the case when break point before unbalanced columnarized pane is allowed.
 - for the case when common ancestor for unbalanced columnarized pane and following panes are too long.
- Added header/footer height recalculation to use their real height on pagination.
- Fixed pagination issue where footers and the bottom margins of split Panes were not considered when a new page is triggered by a "force page" pane setting.
- Fixed unexpected exit when field content is a long string of characters with no spaces.
- Added -stitchingFastCount option for PDF stitching. It is a switch between faster and more reliable ways to count external PDF's pages. See <https://docs.docorigin.com/reference-manual/merge/merge-command-options/stitchingfastcount>
- Enabled PDFStitching to work when the XATW name has spaces.
- Changed behavior on Windows to exit when "prt:." prefixed output fails instead of writing to a file. For backward compatibility added "-prtOutputRollbackToFile Y/N" option. See <https://docs.docorigin.com/reference-manual/merge/merge-command-options/prtoutputrollbacktofile>
- Fixed unexpected exit when _document.abandon() is used but no "-output" is provided.
- Enabled "bindData" tag to handle names with dots, support bindData:* for fields with dotted names, and support bindData:"a.b" for quoted dotted names. See <https://docs.docorigin.com/reference-manual/design/object-tags>

Scripting

- Extended _file.copy() to support "prt:." prefix in "to" parameter.
- Extended _merge(args) to support \$ variables and heredoc.
- Fixed unintentional decimal point (_system.setDecimal) reset to default by JavaScript filter and domObj.sum.

- Fixed unexpected exit when a script has a very long line.

Folder Monitor

- Changed wrong behavior introduced in v.3.2.001.11 so that now FolderMonitorTransaction writes to AtwTempFiles in Windows User Temp folder instead of DO/Bin by default.
- Enabled “-cd” option to be used in DocOriginFolderMonitor.ini.
- Enabled [DEFINE] section in DocOriginFolderMonitor.ini.
- Fixed Linux samples by adding missing Sample_InvoiceJPS.wjs script.

Form Convert

- Fixed import of multiple images in cases where IFD or XDP have embedded and linked images and some are not found.

FilterEditor

- Added Find dialog to the Overlay window.
- Fixed unexpected exit caused by changing the XML prototype when no XML prototype was originally set.
- Replaced default "to" state called "* choose or type" with a new one called "LeaveOriginalState".
- Removed possibility to create empty-name XML nodes, instead name them "__MissingTag__".
- Removed unwanted highlighting of non-leaf XML fields with the same name as a highlighted leaf field.
- Enabled the AddAction menu item on the "When" condition inside the Rules view.
- Enabled retention of "Rule-Extract to XML node" links when the XML Data Fields structure gets changed (like Drag&Drop).
- Fixed selection highlighting issues.
- Removed unwanted additional line transformation for "MaxLines to transform" setting.

Core

- Fixed unexpected exit caused by using "Profile" when there is a macro inside heredoc.
- Fixed macro not expanding in profile if it followed another undefined macro.
- Fixed return codes for processes started with _run, _merge, etc. on Unix.

Other

- Updated PDFProcessor's 3rd party dependencies to avoid known vulnerabilities.

Merge

- Fixed layout calculation for unbalanced columnarized panes
 - for the case when break point before unbalanced columnarized pane is allowed.
 - for the case when common ancestor for unbalanced columnarized pane and following panes is too long.
- Added header/footer height recalculation to use their real height on pagination.
- Fixed bottom margin handling for columnarized pane on pagination.
- Fixed height calculation for unbalanced columnarized pane in case of three or more columns.

Core

- Fixed return codes for processes started with `_run` or `_merge` on Unix.

Merge

- Fixed layout calculation for unbalanced columnarized panes for the force page case.

Merge

- Fixed unexpected exit when field content is a long string of characters with no spaces.
- Fixed column balancing for a columnarized pane when it has a bottom margin.
- Fixed pagination for unbalanced columnarized panes.
- Updated 3rd party dependencies for PDFProcessor to fix Apache Commons Text vulnerability. See <https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2022-42889>

Scripting

- Fixed unexpected exit when a script has a very long line.

Setup

- Updated the installer to show the full product version in the window caption.

Merge

- Added "-mergeCaseSensitive Yes/No" option to support case insensitive merge.
See <https://docorigin.com/doc/#option-mergeCaseSensitive>
- Added "-ellipsis Y/N" option to control ellipsis functionality.
See <https://docorigin.com/doc/#option-ellipsis>
- Added "-ellipsisCropLastWord Yes/No" option to append a portion of the last word before ellipsis.
See <https://docorigin.com/doc/#option-ellipsisCropLastWord>
- Added "-dataFileResults" option to specify a path to the file that will contain the exit code of each data file when processing multiple data files.
See <https://docorigin.com/doc/index.php#option-dataFileResults>
- Added "-AutoEmail Yes/No" option to make auto email functionality optional.
See <https://docorigin.com/doc/#option-autoEmail>
- Added "SupportAlpha", "TransparencyColor", and "TransparencyMask" to the list of valid command line options.
- Implemented support for different "mediatype" for base64 encoded image data.
- Fixed missing characters when "-showNames" and "-mode PDF/UA" are used together.
- Made PDF security options configurable from command line and "Default-PDF.prt".
See "Default-PDF.prt" for details.
- Fixed MaxiCode barcode rendering when explicitly setting "MaxiCodeMode=auto".
- Implemented auto module size calculation for DataMatrix barcode for ZPL output.
- Allow embedded fields in tag value for Stitching.
- Updated the list of valid command line options to include all barcode options.
- Removed "OutputRedirect" message when the working directory is \$E.

Scripting

- Added getters and setters for "blankback", "blankfront" and "blanktrailingback" properties.
See <https://docorigin.com/doc/index.php#domProperties>
- Added "No" option to "_printer.setPDFAllowChange" function.
See https://docorigin.com/doc/index.php#_printer
- Extended scripting for PDF Security.
See https://docorigin.com/doc/index.php#_printer
- Updated "_resolve" function to apply field formatting to embedded fields.
- Enabled support for ECMAScript for XML (E4X) (ECMA-357).
See https://en.wikipedia.org/wiki/ECMAScript_for_XML
- Improved resolution of object names which match standard JavaScript classes, e.g. Number.

Design

- Added 10% and 25% zoom options.
- Added copy path functionality to Form Explorer and Data Explorer context menus.
- Improved fidelity of PDF Security dialog.
- Improved persistence of custom colors in color palette.
- Improved "Insert..." context menu items in Script Editor.
- Updated Script Editor to support names with dots while using "Insert Object Reference".

- Fixed unexpected exit from Design on PDF preview of a newly created form if "Modify password" is set.
- Deactivated linked fragment modification.
- Fixed corruption of Unicode characters on RTF paste.

Folder Monitor

- Implemented configurable sorting of scanned data files.
See <https://docorigin.com/doc/#FMoption-sortingOrder>

Form Convert

- Fixed unexpected exit when page size could not be found in the configuration file defined by the "-config" option.

Filter Editor

- Made all fields in filter properties editable.
- Improved error reporting when opening a wrong file type instead of an "xfilter".

Setup

- Added a prompt to install FolderMonitor to DocOrigin installation.
- Added "Default-TEC.xatwlib" to Linux and AIX installations.
- Renamed "Default-Fragments.xatwlib" to "Default-AutoEmail.xatwlib".

Configuration

- Added PDF Security options to "Default-PDF.prt".
- Added all barcode options to "Default-" PRT files.

Design

- Fixed several high-resolution UI issues.
- Fixed multiple-monitor mixed resolution issue.
- Fixed undesirable auto-navigation for Objects larger than visible area of canvas.
- Removed ability to edit Labels in Linked Fragments.
- Fixed unintended renaming of Objects when navigating across multiple Forms.
- Fixed crash when clicking "Script error" in the log if the error message is too long.
- Fixed discrepancy between tab distance in Paragraph settings and rendered tab distance when tab distance is not set in the xatw.
- Extended tabs in Paragraph settings to include "0.0 in".
- Enhanced "Select Configuration File" dialog to remember last used PRT when opening IFDs, XDPs, or PDFs.
- Fixed GUI display of objects with margins in groups with layout "Flow Top to Bottom".
- Fixed resizing of groups to fit all children when layout changed to "Flow Top to Bottom".
- Fixed GUI display of edges and line styles for Groups and Containers.
- Implemented "Apply to all missing fonts" option in "Alternate Typeface Selection" dialog.
- Fixed inaccurate Data Explorer field highlighting.
- Implemented "Change Document Separator Tag" menu in Data Explorer.

Merge

- Implemented Code 11 barcode.
- Improved logging. Added real placeholder name (not template) to error log in case this placeholder cannot be opened.
- Implemented "MandatoryMatch Yes/No" (default "No") tag for Panes and Groups. When "Yes", the tagged object is required to participate in matching.
- Fixed unbalanced columns when the wrapping pane is vertically shifted.
- Implemented support of # as a comment in *.prm files.
- Enhanced _fullName DOM property to support names with colons, periods, and hyphens.
- Fixed PDF and PCL duplexing when mixing "Page placement" settings.
- Deactivated PDF/UA mode for "CombineDocuments=Yes" case.

FolderMonitor

- Fixed incorrect behavior of DocOriginFMTransaction when the script is big.
- Restricted DocOriginFMTransaction from unintentionally writing temp files to DO/bin when starting with -cd option.

Scripting

- Fixed _data._loadAsObject to handle multilevel and repeatable objects.
- Enhanced _xml operations to create names containing periods, colons, hyphens, and underscores.
- Enhanced XmlInput to process XML files without namespace declarations.

FormConvert

- Enhanced subform layout="lr-tb" (left-to-right and top-to-bottom) conversion.
- Fixed inaccurate resultant negative width of rotated fields with "minH" attribute.
- Improved XHTML to RTF conversion for labels.
 - Implemented support of "style" attribute for <p> tag.
 - Implemented support for non-quoted font name in "font-family:".
 - Fixed "font-size:" parsing.
 - Fixed font change detection in FormConvert.
- Added handling for XDP attribute "justifyAll" as a synonym for "justify-all".
- Improved conversions for fields with captions.
- Implemented page size name guessing by page dimensions.
- Added tab distance of "0.5 in" to Labels and Fields if not specified in XDP.
- Implemented "-setConfig Y/N" (default N) option to control setting a Form's "configFile" attribute.

ConvertDatToXml

- Extended target field search from current pane's children to all descendants.

Other

- Core
 - Improved printer related logging. Added error code descriptions where possible.
 - Improved logging if application of -cd option fails.
 - Fixed enumeration of files with special characters in name on Linux.
- Default Files
 - Added Default-PCL5.prt and Default-PCL5Color.prt with adjusted page coordinates from legacy LJ4 PRT files to match PDF output.
- DocOrigin Installer for Windows
 - Automated removal of FolderMonitor and QueueMonitor.
 - Added option to remove FolderMonitor and QueueMonitor services.
 - Added option to remove DocOrigin registry entries.
 - Deactivated possibility to change installation folder on upgrade.
 - Preserve accelerator keys on uninstall.
- PDFProcessor
 - Updated Java libraries to avoid known vulnerabilities.

Design

- Fixed bug where the top or bottom object in a group of selected objects in Form Explorer was lost upon right clicking.

Merge

- Fixed the loss of paragraph information in rtf fields and labels when split on pagination.
- Updated Merge to generate an empty page for PDF files only when there is no output in the resulting output file.

Form Convert

- Fixed \$DATEn and \$TIMEn embedded field conversion for fields and labels.
- Updated FormConvert to store the configuration file selected during conversion in the resulting xatw.
- Updated FormConvert to set the Pagination Algorithm to Version 2 (strict) for converted forms.

Configuration Editor

- Grayed-out the duplexing option to more clearly indicate it is purely informational as opposed to configurable.
- Fixed tree controls bug preventing item selection in some multi-monitor scenarios.

Design

- Fixed "Insert Object Reference" window position in the Script Dialog in multi monitor setup.
- Fixed incorrect data file path evaluation in PDF Preview in some cases.
- Added the option "Tools->Options->Align panes to grid". When "on", Design will extend panes so they always end on the grid. This way the following pane will also start on the grid making it easier for a user to align internal objects on the grid.
- Fixed items duplication in Page Properties combo box after Apply.
- Changed "Update all font substitutions into the registry" to be unchecked by default.

Merge

- Added support for Merge parameters in a data file PI.
See <https://docorigin.com/doc/index.php#ProcessInstructions>
- Fixed data merge when group order doesn't match data order.
- Added "-LineBreak 0|1|2|3" option to control line break algorithm.
See <https://docorigin.com/doc/#option-lineBreak>
- Improved JSON data support.
See <https://docorigin.com/doc/index.php#DataFilesJSON>
 - Implemented number, bool, and null values handling.
 - Improved array handling.
 - Each array item should end up as a separate node, not all merged together.
 - Empty array doesn't create a node.
 - Added "_node" node for non named items, e.g. array elements.
 - Implemented the option "JsonInterpretNullAs" to replace null with some text.
 - Implemented the option "JsonNoNameNodeTitle" to rename auto name "_node" to something else.
- Fixed extra new page triggering when splitting a Force Page pane with headers.
- Fixed extra new page triggering when a Force Page pane is already at the top of the page but is shifted because of margins.
- Implemented "BalancedColumns Yes/No" option to control column balancing. Default is Yes. When No, then columns are filled left to right, top to bottom. See <https://www.docorigin.com/doc/index.php#Pagination:Layout%20in%20multiple%20columns>
- Changed image type recognition from a file extension test to the file header test.

Form Convert

- Improved handling of @\$DATEnn in text labels.
 - Implemented conversion of embedded @\$DATEnn to [!Date ...] in text labels. Note that other \$VARIABLEs are still converted to xVARIABLEs for fields and embedded variables in text labels.
 - Fixed occasional line duplication when there is @\$DATEnn in text labels.
- Fixed undesirable opaque white background for labels with colored text.

Scripting

- Updated `_document.serializeForm()`.
 - Added result code.
 - Added file path resolution.
 - Fixed crash.
- Changed unicode characters output from escaping format to characters themselves for complex objects in `_logPrintf`.
- Updated locale `formatCurrency`, `formatNumber`, `spellOut`, `spellOutCurrency` functions to use a number if the input is originally a number and do text to number conversion only if the input is passed as a string. This allows users to avoid erroneous conversion in cases when `_system.setDecimal` has been used.
- Added JavaScript `_locale` property to DOM objects which return a JavaScript `_locale` object (not a name).
See <https://docorigin.com/doc/#domProperties>

Folder Monitor

- Changed `%i` for `scriptFolder` to be resolved on Folder Monitor start like other parameters.

ConvertDatToXml

- Made “-newline” command line option accept empty value.

Configuration Editor

- Added missing Bahnschrift (`bahnschrift.ttf`) font.

Design

- Fixed Script, Log View, etc. dialog windows position in multi monitor setup.

Merge

- Fixed page properties initialization for WinDriver.

Scripting

- Fixed folders matching when using wildcards in “_file.zip()”.

Folder Monitor

- Fixed resolution of "%" placeholders for "-scriptFolder" option.

Design

- Improved the lasso selection.
- Added “Edit->Select All->Groups in Page” to the menu.
- Added warning to Form Verification Report for automatic font style (bold/italic) substitutions when the exact font match is not found.
- Allow automatic font style substitutions for fragments if the exact font match is not found.
- Fixed crash on form save when image is inserted as a template.
- Added “Collapse/Expand children” context menu item to Form Explorer.
- Added “Format->Resize Panes to Minimum Height on Page” menu item.
- Fixed repeated PRT selection dialog on IFD import.
- Improved editing of merged cells and nested tables.
- Updated the default pane template to use Job Section: “Main”.
- Added warning on “Save As” action if the target file name already exists.

Merge

- Removed JSON data node size limitation for JSON input data file.
- Made the object's name interpreted as the key for Auto Translate when the object's TranslateKey tag value is “*”.
See <https://docorigin.com/doc/#AutoTranslate>
- Changed Auto Translate processing to be executed after the Start-of-Job event.
- Added the host name (_HostName) in the session's metadata.
See <https://docorigin.com/doc/#Session>
- Improved auto-generation of JSON input data file.
- Added “Underlay” synonym for “Placeholder” tag.
See <https://docorigin.com/doc/#MergeExternalPDFs>
- Added “-embeddedDefault” option to configure the default value for embedded fields.
See <https://www.docorigin.com/doc/index.php?option-embeddedDefault>
- Added new duplex page placement setting "Start on front, then either side". Supported by PCL driver only.
- Added “-stretchFields” option to allow fields to stretch vertically with its parent pane.
See <https://docorigin.com/doc/index.php?option-stretchFields>
- Improved Merge error logging when using filters.
- Added “%” placeholders support to “-filterOutput” command line option.
- Fixed “%D” resolution to original input data file for cases when “-filter” was used.
- Added “-emptyNodeInstantiatePane” option to control the creation of panes that match the empty node in input data.
See <https://docorigin.com/doc/#option-emptyNodeInstantiatePane>
- Changed embedded fields resolution order to search fields first and *only then*, labels.
- Fixed XML escaping for “-embedData” for PDF driver.
- Extended error logging for Merge error 58 (ERR_MERGE_PRINTDOCUMENT).
- Added logging for Merge output destination.
- Adjusted Zebra-H font character widths to better match the real output.

Scripting

- Added “[@fileName]” support in “_resolve()”.
 - Fixed input/output redirection handling, e.g. “>”, “<”, “|”, and others, in “_run()” call.
 - Add wildcard support to “_file.zip()”.
 - Added an application name in the title of the “_message” and “_prompt” dialogs.
 - Made “_file.fopen()” and “_file.writeFile()” create folder hierarchy if open mode is “w” or “a”.
 - Added “_toXmlString()” and “_fromXmlString()”.
- See https://docorigin.com/doc/index.php#_toXmlString

Filter Editor

- Fixed incorrect item selection when clicking “XML Data Fields” in some scenarios when “AppendTo” was involved.
- Added warning about possible mistakes when extracting multiple items into the same XML node.
- Added possibility to produce multi-instance nodes within one parent node using the “M” option in the context menu.
- Added “(NewDoc)” suffix to the rule name when its “StartNewDocument” property is “true”.
- Removed “StartNewDocument” property for new filters. Use the “Start New Document” action instead.
- Fixed field selection dialog not showing when clicking in “Store as Field” in Extract action in some rare cases.
- Added “(No match)” prefix to all rule names with no matches against the data file.
- Added undo/redo support to changes made in the string and drop down fields in Filter Rules.
- Added undo/redo action descriptions to the menu items.
- Changed the “From State” property to be a multi-selection combobox to make multiple choices more visible.
- Set codepage to “UTF-8” when explicit SymbolSet is not specified in a filter.
- Fixed accented letters not displaying properly in the Filter Rules.
- Added “rules-matching” log for debugging the filter under “Tools->View parsing log” menu item.

Form Convert

- Made XATW form name the same as IFD file name.
- Added ConvertIFDShell’s “fieldCorrection” option to FormConvert.
- Embedded ConvertIFDShell output log into FormConvert log.
- Improved parsing of embedded field references.
- Replaced non-breaking spaces with regular spaces in text labels.
- Improved handling of spaces and new lines for text labels.
- Added rtf to plain text simplification when the target text label does not use formatting.
- Added “-RetainSpaces” option to control spaces conversion for text labels.
See <https://docorigin.com/doc/#FormConvertoption-RetainSpaces>
- Added “-AdjustLabelWidth” option to adjust text label width during conversion.
See <https://docorigin.com/doc/#FormConvertoption-AdjustLabelWidth>
- Fixed handling of subform with explicitly set *layout="position"* in XDP.
- Fixed handling of diagonal lines with *slope="/"* attribute in XDP.
- Fixed handling of font sizes which are not full or half point sizes.

Folder Monitor

- Fixed failed job log file.
- Improved FolderMonitor and FolderMonitorTransaction logging.

SendMailServer

- Added curlOptions support to SendMailServer on Linux/AIX.

Setup

- Fixed registry key in AllowOtherDocoriginUsers.bat.

Design

- Added support for unicode characters in Design log view.
- Added object names validation on Form open.

Merge

- Fixed typo in TranslateKey implementation.
- Improved scannability for barcodes in PDF output.
- Fixed crash in dithering algorithm (image conversion to black and white) used in ZPL and TEC.
- Fixed label/field split(pagination) failure when split occurs right after the empty first line.
- Fixed radio buttons printing issue for Fillable PDF.

Scripting

- Fixed typo in getOpenFolderName() log message.
- Fixed fp.fwrite(string, [count]) parameters validation.
- Fixed crash on too long line in script.

ConvertDatToXml

- Fixed document split issue in case of non unique fields.

FormConvert

- Implemented a BMP image header fixup in some cases.
- Fixed occasional pane order lost when converting from IFD.
- Added object names validation according to DocOrigin rules in import post fixups.

Design

- Fixed Design initialization for the new user.
- Fixed log view to highlight critical errors in red.
- Fixed “go to” script by clicking on object name in the script error in the log view.
- Fixed form name as a result of ifd or pdf convert in Design.
- Added support for @prmfile in "Merge Options" in "PDF Preview", "Merge Test", etc.
- Fixed crash when no fonts are found for selected configuration.
- Keep object name as a result of "Format Field to Label".
- Fixed used cursor in use when page object is selected.
- Make form modified after successful run of an external tool.
- Allow “-” and “.” in object names.
- Fixed object’s colors update in some cases.

Merge

- Added a log message if there was no documentTag match.
- Fixed crash when [!Data ...] references an empty data item on Unix.

Scripting

- Fixed crash when serializing objects with null properties.
- Added _os.getHostname() script function.
See https://docorigin.com/doc/#_os

FolderMonitor

- Added support for DocOriginFolderMonitor.ini on Unix.
- Fixed FolderMonitor to use log file template, e.g. “-logfile %y%m%d.log“, when starting child processes on Unix.

ConvertDatToXml

- Fixed crash when doing substitute with newline injection.
- Implemented support for long data fields.
- Implemented support “-fragmentautoresolve Y/N” for linked fragments.

ConfigEditor

- Fixed bug in serializing some fields in a PRT file.

FilterEditor

- Fixed update for the selection of an extraction.

Misc

- Fixed Sample_Barcode.xatw sample to make it work for a clean installation.
- Fixed DO script to prepend its library path before the predefined ones on Unix (LD_LIBRARY_PATH on Linux, LIBPATH on AIX).

Merge

- Allow numCopies to be driver specific.
- Improved "PrinterOpenError" error message with failed path.
- Added Merge options to control text vertical alignment on split of text labels and fields during the pagination process:
 - "-TextVerticalAlignmentMethodOnSplit 0/1/2/3" and
 - "-MinimizeTextObjectHeightOnSplit Y/N".
- Allow \$\$F and \$\$D to be used in the "-config" path.

Design

- Added configuration file selection dialog to form import.
- Added a checkbox to "Update all font substitutions into the registry" in "Alternate Typeface Selection" dialog.
- Added "View" -> "Text Labels are Active" option to the main menu.
- Added "DocOrigin\DO\Bin\ResetAllDesignMenus.bat" to recover menus and toolbars.
- Added possibility to browse for Fragment Library files in any location.
- Fixed text label update issue after exiting from editing mode by changing focus to Form Explorer.
- Fixed chained filters for Design preview.

Scripting

- Added <domObj>._date and <domObj>._dateObj properties.
See <https://docorigin.com/doc/index.php#domProperties>
- Added <domObj>.getObjectsByTagValue(tagName, tagValue) function.
See https://docorigin.com/doc/index.php#domObj_getObjectsByTagValue
- Added <dataObj>.ancestor, <dataObj>.descendant, <dataObj>.childNamed.
See https://docorigin.com/doc/index.php#_data
- Added http.readyState and http.status to XMLHttpRequest.
See <https://docorigin.com/doc/#XMLHttpRequest>
- Fixed handling of a large response in http.responseText in XMLHttpRequest.
- Changed XmlFile to emit an empty leaf node as <tag /> not <tag></tag>.

QueueMonitor

- Fixed DocOriginQueueMonitor to work from the command line.
- Removed 25 max ports limitation in DocOriginQueueMonitorSVC.

FolderMonitor

- Changed JobID format.

FormConvert

- Added “-RetainSpaces Yes/No” option to FormConvert to control spaces compression in xhtml to rtf text conversion.

ConfigEditor

- Added support for more fonts.

Email

- Added SampleGmail_DocOriginSendMailServer.prm.

FilterEditor

- Improved user experience for FilterEditor UI.
- Improved main view refresh speed for very complex filters.
- Added *Start* to the From state dropdown.
- Allow spaces in the comma separated list in From state.
- Disallow comma separated lists in the To state dropdown.
- Added new action step - “Append to Field”.
- Added View->AutoSync option to automatically sync selected rule along with the currently selected XML Data Field.
- Extended codepage selection in the following dialogs: File->New and File->Properties.
- Added double click action on rule’s test items to open “Select action” dialog.
- Added ability to drag-n-drop nodes in XML Data Fields view.

Merge

- Improved sample data (aka autodata) generation by Merge on Linux.
See <https://docorigin.com/doc/#option-createData>
- Added support for keys with space characters for JSON data. Space characters are now automatically converted to underscores.
See <https://docorigin.com/doc/#DataFiles:JSON%20Input>
- Added [!Field x] support to _file.resolveName().
See https://docorigin.com/doc/#file_resolveName
- Added support of [!Auto xxxx], e.g. [!Auto PageNum].
See <https://docorigin.com/doc/#AutomaticAndEmbeddedFields>
- Added Email signing and encryption functionality.
See <https://www.docorigin.com/doc/index.php#SigningMail>
- Added encrypted PDF output support to external PDFs merging, aka "PDF Stitching".
See <https://docorigin.com/doc/#MergePDFStitching>
- Added support of CheckBoxSize definition using field tags. See Default-LJ4.prt, Default-PDF.prt, Default-PS2.prt, etc.
- Made PDFExtract process use the same log as Merge during placeholders processing.
- Fixed automatic URL formatting for "TextPresentation=1" (line-at-a-time).
See <https://docorigin.com/doc/#option-textpresentation>
- Fixed an issue with simultaneous use of "-filter scriptA.wjs" and "-scriptFile scriptB.wjs".
- Fixed field height expansion on text overload when "Adjust height" is off.
- Fixed auto "http://" prefixing for URLs that already start with "http[s]://" for HTML output.
- Fixed script processing when the script in Form's Common Code has text that matches Merge events.

Design

- Improved Ctrl+Click object selection/deselection in FormExplorer.
- Allow simultaneous selection of parent and child objects.
- Allow empty labels on the Form.
- Added "Options"/"Tools"->"Typefaces substitutions..." menu item which allows managing the font substitutions within Design.
- Added check for properties' pane changes on form close.
- Added "Clip to height" checkbox in Label's object properties. When enabled, the label does not grow in height, i.e., it shows full text in editor mode but clipped text otherwise.
- Added "Edit"->"Select All"->"Panels in Page" menu item.
- Added "Format"->"Align to Grid"->"Top, Left, Bottom, Right" which first repositions the object, so its top left corner is on the grid and then resizes it, so its bottom right corner is on the grid.
- Made Image Save Dialog remember last save location.
- Do not allow invisible panes (Visible: None) to be selected as an object insert target.
- Fixed grid tics turning into a solid black line when very fine grid or on large zoom out.
- Fixed Design crash when previewing a form with a page without a name.
- Fixed Pane's children duplication when calling "Link Objects into Pane" for a single selected Pane object.

- Fixed mouse pointer repositioning when clicking on zoom in/out buttons on the toolbar.
- Fixed displaying of custom checkbox marks in Design, e.g., when CheckboxStyle is X.
- Fixed undesired line resize after moving if the line's ends were not located on the grid.
- Fixed unintentional fragments library deletion during AutoSave.
- Fixed label growing beyond parent object borders on text input.
- Fixed unintentional container's growth wide wise on child resize.
- Fixed preview when Merge parameter without value is used.

Scripting

- Allow folder path to be used as a destination parameter in `_file.copy()`.
See https://docorigin.com/doc/#_file
- Made `_file.toBase64()` support binary files.
See https://docorigin.com/doc/#_file
- Added `_runNoWait()` function.
See https://docorigin.com/doc/#_runNoWait
- Fixed `_file.findNext()` for Linux when `nameMask` was too general, e.g. `"**"`.
See https://docorigin.com/doc/#_file_findNext
- Fixed `_file.readFile()` so it returns an empty string instead of null on an empty file.
See https://docorigin.com/doc/#_file
- Added logging error message in case of a temp file creation error in `_runScript/_merge`.
- Added append mode to `_file.writeFile()`.
See https://docorigin.com/doc/#_file
- Added wildcard support to `_file.exists()`.
See https://docorigin.com/doc/#_file
- Added `_file.getOpenFolderName()` function for displaying dialog for folder selection (Windows only).
See https://docorigin.com/doc/#_file
- Fixed `"som"` property (dotted schema object model notation) calculation for `XmlInput` when there are tag names with dots.
See <https://docorigin.com/doc/#XmlInput>
- Changed return value in `[RunScript:ScriptOK]` message from `int/string/boolean` representation to the actual value.
- Made `_run()` not issue an error message if it returns a non-zero return code.
See https://docorigin.com/doc/#_run

FormConvert

- Introduced `Default-FormConvert.prm` file with predefined `"-splitSegs No"`.
See <https://docorigin.com/doc/#option-splitSegs>
- Introduced `"ContainerShift"` option to set the left and right shift of a container's border when importing.
See <https://docorigin.com/doc/#FormFileConversion:Batch%20Conversion>

FolderMonitor

- Added log messages for `ExitWhen` or `ExitNow` events.

DocOriginNotify

- Packaged DocOriginNotify and its DocOrigin dependencies into a zip archive.
Note that you still may need to install Microsoft Visual C++ Redistributable for Visual Studio 2017. See <https://support.microsoft.com/en-us/help/2977003/the-latest-supported-visual-c-downloads>

Other

- Fixed reporting of the number of fonts in a .ttc file by TTFUtil.
- Fixed DocOriginSendMailServer crash when Windows-like path (C:\...) to the mail folders was specified by mistake for Linux.
- Improved error reporting when DocOrigin filters fail to start.

Merge

- Extended set of embedded fields. See <https://www.docorigin.com/doc/index.php#AutomaticAndEmbeddedFields>
 - [!Data name] to fetch value from Data DOM.
 - [!Env name] to the value of the environment variable.
 - [!Field name] as an alternative to [name].
 - [!Session name] to fetch data from the current Session. See <https://www.docorigin.com/doc/index.php#Session>
- Automated language translation support
 - Added ~name label translation feature with -Translate and -Language command options added. See <https://www.docorigin.com/doc/index.php#AutoTranslate>
- Including external PDF files
 - Added new Placeholder tag pattern to include all pages from external PDF - "pages=*". It is default now if the "pages=" part is missing. See <https://www.docorigin.com/doc/index.php#MergePDFStitching>
 - Added automatic resolve for Placeholder tag value, i.e. values like: "\$F/[!Profile profKey1].pdf" will be processed properly. See <https://www.docorigin.com/doc/index.php#MergePDFStitching>
- Miscellaneous
 - Added Direct Data Binding possibility. See "Direct Data Binding" section in <https://www.docorigin.com/doc/index.php#DesignObjectTags>
 - Added support for JSON input data. See <https://www.docorigin.com/doc/index.php#DataFiles:JSON%20Input>
 - Added -xxxDataExts command line option to set default filename extensions for different input data formats. See DO/Bin/Default-Merge.prm file.
 - Added -InputDataType command line option to indicate the input data format. See <https://www.docorigin.com/doc/index.php#option-inputDataType>
 - Made Merge to support SendMail command line parameters, allowing to override DocOriginSendMailServer.prm configuration. See <https://www.docorigin.com/doc/index.php#SendMail>
 - Added new command line parameter "-RestrictedFileNames Yes/No" to control conversion of file names with restricted chars. See <https://www.docorigin.com/doc/index.php#FileNamingConventions>
 - Improved performance when using (Default-)WIN.prt configuration file.
 - Added possibility to change a document's locale on document-by-document basis. See https://www.docorigin.com/doc/index.php#_locale
 - Added PDF417 barcode to Zebra Internal barcodes. See Zebra Fragments.
 - Added "-embedPlainTextAsRtf Yes/No" option to control <EOL> to "\line" conversion when embedding plain text into rtf formatted text. Default is No. See <https://docorigin.com/doc/index.php#option-embedPlainTextAsRtf>
 - Added HighlightURL parameter to control formatting of email/http addresses as URLs (blue underline) in PDF output. See Default-PDF.prt.
 - Introduced Email_5in page size in Default-PDF.prt so it displays correctly in Design.

Design

- Allow Field Initial Value to contain embedded <EOL> (use Ctrl+Enter).
- Added AutoSave functionality for forms being edited. See menu Tools->Options for configuration options. The default is to save a form backup every 5 minutes.
- If more than one user uses Design on a workstation, it is no longer necessary to run AllowOtherDocoriginUsers.bat/IWantToUseDocOriginToo.bat.
- Added "Paste Without Formatting" functionality to the text editor.

Scripting

- Added support for -cache command line option in RunScript.
- Allow certain non-Merge related embedded fields like date/time, session, cache, profile, env etc. to work outside of Merge, e.g. in _resolve() function.
- Added _locale.setDefault() function to Merge. See https://www.docorigin.com/doc/index.php#_locale
- Added _pageOrientation, _paperSize and _initialValue DOM properties. See <https://www.docorigin.com/doc/index.php#domProperties>
- Added possibility to disable EOL conversion (\r\n->\n) in _file.readFile(). This may result in performance gain in some cases. See https://www.docorigin.com/doc/index.php#_file
- Added _file.fromBase64 function. See https://www.docorigin.com/doc/index.php#_file
- Added direct properties access to _session object (like _session.name = value). Now it is similar to _cache behavior. See https://www.docorigin.com/doc/index.php#_session
- Updated <domObj>.reparent(). Arguments xOffset and yOffset are now optional and default to 0. See https://www.docorigin.com/doc/index.php#domObj_reparent
- Allow _document.insertPage(), i.e. <domObj> in "<domObj>.insertPage()" does not have to be of type page anymore. See https://docorigin.com/doc/#domObj_insertPage
- Allow image labels to reference https[s]:-based images (via _imageName property).

Core

- Added possibility to inject environment variables via [!Env xxx] into command line parameters. See <https://www.docorigin.com/doc/index.php#AutomaticAndEmbeddedFields>
- More strict \$X resolution. Now if you say "Merge -trace \$User.trace" you should get "\$User.trace". \$X is not resolved if it is followed by an alpha character. This applies to both cmdline and _resolve.

CsvToXml

- Updated CsvToXml script so that it can be run standalone.

DocOriginNotify

- Enhanced DocOriginNotify to make file list control contain more columns and support sorting.

MultiPage

- Added MultiPage to DocOrigin toolset. See <https://docorigin.com/doc/#MultiPage>

WebServices (1.3.3)

- Implemented script security via Default-WsSecurity.wjs.
- Optimized keepJobHours setting.
- Introduced jobIdPrefix parameter for "Execute a job" calls.
- Updated Swagger-UI and enhanced Swagger docs for REST.

- Set mime type for REST output when available.
- Fixed /jobs/{jobId}/files/{fileName} method to support nested file path, i.e. when {fileName} is actually a path containing folders.
- Added support for /jobs/{jobId}/files to accept fileName as a query parameter (as an alternative).
- Return jobId if available when "Execute a job" fails.

TaskFlow

- TaskFlow is a powerful application that empowers DocOrigin server administrators to create, manage and test Jobs. From managing sample data, to creating custom tasks, TaskFlow will make your life easier! See <https://docorigin.com/doc/index.php#TaskFlow>

Merge:

- Made Merge to fail if AutoMail has failed.
- Fixed footer position calculation when footer is defined for Container.

Design:

- Fixed unwanted renaming of an "old" field after the "new" one is added.
- Do Form Explorer selection update before object properties update.
- Fixed typo in RFID tags in Default-Zebra.xatwlib.
- Fixed justification toolbar update for labels.
- Added modifications check in ScriptEditor so changes are not lost on ESC.
- Fixed crash in Design when configure image rotation to angle other than 0, 90, 180, 270.
- Disabled Format->Rotate->Other for images.
- Fixed crash in Find Dialog in Design.

ConvertDatToXml:

- Fixed an infinite loop caused by unrecognized inline text control command at the end of the string.
- Added autodetection of file paths among inline text control command.

Merge:

- Fixed page tabs in the html driver when there are invisible pages in the document.
- Fixed SynthBold issue for rotated text in PostScript output.
- Fixed a file path with a dash ('-') handling for "placeholder" tags.

Scripting:

- Enabled `_profile.load()` to do profile initialization actions immediately on call.
- Fixed `_parser.parms()` to properly parse assignment characters, i.e. equals (=) or colon (:), if they appear in value.

Design:

- Fixed crash when pasting text into the first line which is a new line.

FilterEditor:

- Fixed crash in FilterEditor when "Delayed State Changed" action is used.

ConvertDatToXml:

- Fixed an infinite loop caused by inline text control command which uses newline as a delimiter.

Design

- Added new “Paste and Group” option when copying objects.
- Added "Note" and "Tag" marks to unnamed objects in Form Explorer.
- Added option to edit Output Configuration files (.prt files) to Preview dialogs.
- Added option to save .prm or .mprm file with the merge options supplied for preview.
- Added new setting (Tools->Options) to control the display of the output of PDFPreview or HTMLPreview. The output can still be displayed manually using the new Status bar PDF or HTML buttons. The Status bar also has an Eml button that will display an email generated via the new _email_ fragment in the Default-Fragments library.
- Fixed several table drawing issues.
- Fixed shift of the horizontal rulers on zoom.
- Fixed copy/paste of rtf text for some rare cases.
- Added ability to supply “external tools” to the “Tools” menu option. See <https://docorigin.com/panetalk/ExternalTools.php>

Merge

- Added “-Rotate180” option to PCL drivers. See Default-LJ4.prt, Default-LJ4Color.prt, etc.
- Added possibility to resolve [LabelName] in embedded fields. See <https://docorigin.com/doc/#AutomaticAndEmbeddedFields>
- Added [!base64 FieldName] embedded field which will base64 encode the named field/label value. See <https://docorigin.com/doc/#AutomaticAndEmbeddedFields>
- Added a date stamp to Subject line when autoEmail is used in Design test mode.
- Added a blank page rendering when nothing is drawn in PDF driver.
- Respect field/label top/bottom margins on split. See <https://docorigin.com/doc/#Pagination>
- Fixed SynthBold issue for rotated text in PCL output.
- Fixed monospaced font optimization in PDF for some asian fonts.
- Fixed percentages in LegendFormat for PieChart.
- Fixed default dithering algorithm for the case when color image is used for black and white pcl output on Linux.
- Fixed several PrinterTable issues.
- Fixed extra temp file creation when output file name used “%u”.

FolderMonitor

- FolderMonitor performance improvements. Now by default FolderMonitor doesn't collect jobs counts statistic to send it to Folder Monitor Console. You can enable it with new “-UpdateCounts” option. See <https://docorigin.com/doc/#FMoption-UpdateCounts>

Scripting

- Added possibility for PI instructions to appear before the default <XMLData> and <Document> tags when using xmlFile.pi(string). See <https://www.docorigin.com/doc/#FMJobNameDiscovery>
<https://docorigin.com/doc/#XmlFile>
- Added attributes support to XmlFile methods. See <https://docorigin.com/doc/#XmlFile>
- Added new script functions _toBase64(str), _fromBase64(str), and _file.toBase64(filename) to encode/decode Base64 data. See https://docorigin.com/doc/#_toBase64
https://docorigin.com/doc/#_fromBase64
https://docorigin.com/doc/#_file
- Added _file.readIniFile(fname) function. See https://docorigin.com/doc/#_file_readIniFile
- Fixed _inlineToRtf to support parsing of inline “rtf” commands when command sequences don't end with a point.
- Fixed rare bug when JavaScript function parameters were results of the string operations on the same source string.

SendMail

- Added new “-encodeHTML” option to change html encoding to "8bit". See Default-DocOriginSendMailServer.prm
- Added new “-mailHoldFolder Hold” option to control output folder for mails on “hold”.

ConvertDatToXml

- Fixed parsing of inline “rtf” commands when command sequences don't end with a period.

ConfigEditor

- Improved config serialization to generate less diff on edit.

Licensing

- Added support for hostnames longer than 16 characters on Windows for licensing purposes.

- Design
 - Added log viewer. See button on the status bar.
 - User may choose whether to display adjacent panes with a small gap between them or not, using the Design Tools>Options command.
 - Added -PDFPageMode option to PDF driver to control Acrobat navigation window. The -PDFPageMode Merge option can be used to tell the pdf viewer (Acrobat) to optionally display thumbnail images of each page (-PDFPageMode UseThumbs) on startup.
 - Make "Insert Pane" menu item insert a default pane and not clone the current one.
 - Auto grow/extend all panes and groups (not just top ones) on paste or move of an existing object into them.
 - Remove names from non-fields. It now keeps names that start with \$ or _ (not just _). Names, on anything that start with \$_ (two chars) are considered temporary names and are always removed when Format->Remove names ... is selected.
 - Allow panes to grow vertically on margin change.
 - When adding text labels, fields, or tables in Design, adjust the object size to match the default font sizes currently defined in Format>DefaultSettings.
 - Improve displaying of symbol fonts (like Webding).
 - Paste (and move in FE) of objects and following horizontal adjustment redesigned. Now paste doesn't affect target container horizontally.
 - Add "*" to "Tags" and "Notes" buttons for Form and Page properties dialogs when value is nonempty.
- Merge
 - Added PrinterTable output functionality.
<https://www.docorigin.com/doc/index.php#MergeOutput:Merge%20Output>
- Core
 - Prm files - allow entries to be defined via multi-line Heredoc notation. Ex:
 - -cache <<<xxx
 - address:2364 Pollock Ave,
 - North Gower Ontario

▪ XXX

- Design:
 - Add view last log button to status bar with color coded last run status.
 - Add last used data file button to status bar.
 - Add "Edit PRT ..." buttons in Preview dialog.
 - Support multi-line options in Preview dialog.
 - PDF preview toolbar button + Ctrl key opens PDF preview dialog.
 - Do not allow to resize pane height to less than min height set.

- Merge:
 - Add BarcodePostNetRatio parameter for POSTNET barcode.
<https://docorigin.com/doc/index.php#BarcodeOptions>
 - New -PDFTitle "any title" command in PDF driver, if no explicit Title defined, title is set to the output filename.
<https://docorigin.com/doc/index.php#option-printerOptions>
 - Allow profile files use * as comment at the beginning of a line.
 - Do \$\$X substitution recursive like \$X.

- Scripting:
 - Improve performance in JS DOM objects getter.
 - New _profile.getFirstSection(), _profile.getNextSection() functions.
https://docorigin.com/doc/index.php#_profile
 - Add 3rd optional param to _run to capture and log process' stdout and stderr.
https://docorigin.com/doc/index.php#_run
 - _file.zip updates.
https://docorigin.com/doc/index.php#_file_zip
 - Allow _file.zip to compress folders.
 - Make _file.zip create output file if it doesn't exist but "append" mode is used.
 - Add %v, %x, %z options to _resolve to get output file parts in Merge.
<https://docorigin.com/doc/index.php#FileNamingConventions>

- SendMail:
 - Add args.testMail to redirect mails to test email account.
https://docorigin.com/doc/index.php#_sendmail

- FolderMonitor:
 - Change the FMTransaction call in FolderMonitor to set -monitor and -metadata only if they are being used.

- DocOriginCombineForms:
 - Support multiple "-in ..." occurrences in DocOriginCombineForms command line.

- PDFExtract:
 - Update log levels for PDFExtract log messages.

- Design
 - Made Find/Replace dialog remember fields on focus lost.
 - Improved handling of conflicts in panes Overflow list if several panes share the same name.
 - Made "Insert->Page->..." not to clone source page script to result page.
 - Fixed calculation of available internal object space for setting up top or bottom margin.

- Merge
 - Added external PDF merging functionality. See <https://www.docorigin.com/doc/index.php#MergePDFStitching>
 - Changed resources (images) search algorithm. See <https://www.docorigin.com/doc/index.php#option-imagePath>
 - Pagination
 - Added new pagination algorithm. See <https://docorigin.com/doc/#Pagination>
 - Made parent for columnarized panes to shrink to the tallest column.
 - Fixed the alignment of columnarized panes when headers/footers are used.
 - Fixed top/bottom margins handling for columnarized panes.
 - Improved performance for columnarized panes.
 - Made pagination algorithm to respect minimum pane height for footers and headers.
 - Fixed header pane position on "Overflows to Page" page.
 - RTF
 - Added new command line option "-rtfParserVersion". For version "2" it enables support some of rtf paragraph formatting commands. See <https://docorigin.com/doc/index.php#option-rtfParserVersion>
 - HTML
 - Added border radius to output styling.
 - Modified HTML input checkbox/radio to position text correctly.
 - Barcodes.
 - Fix MaxiCode so that customers are not forced to pad Zip/Postal codes to the maximum 9 bytes. See <https://www.docorigin.com/doc/index.php#Barcodes>
 - Added Gs1-128 barcode support. See <https://www.docorigin.com/doc/index.php#Barcodes>
 - Consider pane's margins when stretching pane's children vertical lines.

- Scripting
 - Added getObjectByName(), getObjectByType(), getObjectByTag(), getPickedObjects(). See <https://docorigin.com/doc/#domFunctions>
 - Added a _prompt() function to do basic Yes/No and OK/Cancel user prompt. See https://www.docorigin.com/doc/index.php#_prompt
 - Added _file.zip() and _file.unzip() functions. See https://www.docorigin.com/doc/index.php#_file

- Added new DOM properties: `_caption`, `_onSplitHeader`, `_onSplitFooter`, `_allowBreakBefore`, `_allowBreakAfter`, `_adjustWidth`, `_adjustHeight`, `_singleLine`. See <https://docorigin.com/doc/#domProperties>
- Extend `_file.findNext` to search for directories. See https://www.docorigin.com/doc/index.php#_file_findNext
- Added DOM methods to any new DO object in script.
- Allow the object name to be set to "".
- Made `reparent` to update `xLeft`, not just `yTop`.
- In `_printf` support 64bit ints in case of `%d/x/X/D`.
- Improved readability when printing script objects.
- Made JS garbage collection to trigger at about 1GB of memory consumption.
- **SendMail**
 - Added "header" option to `SendmailServer.prm` and `_sendmail()` which inserts an email header into the output eml file. See https://docorigin.com/doc/#_sendmail
 - Updated email address validation to allow more valid chars.
 - Add message throttling. See "-maxRate" option for `SendMail` <https://docorigin.com/doc/#SendMail>
- **Other/Common**
 - Add `$T` variable to DO binaries. Make `$T` resolve into DO temp folder - `.../AtwTempFiles`.
 - Added support of user's env vars in their `$P` definition. e.g. `:[PATH]`.
 - Added `ConvertTxtToXml.exe`. See <https://www.docorigin.com/doc/index.php#filter-ConvertTxtToXml>
 - Profile handling - added multi-line values (heredocs). See https://www.docorigin.com/doc/index.php#_profile

- Design
 - The colors used in the Design UI are now customizable via its Tools-Screen Colors... dialog.
 - Improved zoomed-in functionality for smoother operations
 - Several small enhancements were made in the Object Tags area.
 - Improved nudging of objects - now moves first to be on-grid, then by grid interval.

- Merge
 - Improved support of USPS-IM barcode. Handle the unusual case where the data is pre-encoded in ADFT (four-state) format.
 - Improved support of GS1-128 barcode. It didn't work correctly with checksum included.
 - PDF -textpresentation 1 improvements. Using this option will now allow font changes within a text line, including bold, italic, underlining, point size and typeface changes. (Available in PCL, PDF, and HTM output drivers only). See <https://www.docorigin.com/doc/index.php#option-textpresentation:-textpresentation>
 - Enhanced the -imagePath command line option. It can now be used to specify a semicolon-separated list of folders to be searched, in sequence, when looking for an image file referenced in a data file. See <https://www.docorigin.com/doc/index.php#option-imagePath:-imagePath>
 - Improved performance of the pagination process.
 - Improved handling of fonts in synthbold case. Sometimes processing caused line widths to get wider.
 - When displaying license info Merge now includes the License Type (Eval | Dev | Prod) . E.g.
 - ...
 - OS type: Windows
 - License Type: Eval**
 - When processing a file referencing construct such as [*@fileName.ext*] the -imagePath search path will be used to find the file. Of course -imagePath was first invented to aid in finding images, despite the name, we are extending that usage to also apply to these, usually text, file reference constructs.
 - Added Merge command line arg "-preferImages" to be used to indicate where Merge should first look for an image for an image field. See <https://www.docorigin.com/doc/index.php#option-preferImages:-preferImages>
 - When generating PCL, Merge emits resources such as fonts and images only once. In the case of combineDocuments=Yes the false presumption had been that there would be only one file output and hence those resources need never be repeated. However, it is possible to switch to a new output file part way through a run. That circumstance is now detected and any necessary resources are placed into the new output file.

- Scripting
 - Improved name resolving in script `_this.objname.xxx` to find the xxx object anywhere in the DOM, not just in the immediate children or siblings. As Merge searches for the named object, it rises through the parental hierarchy. At each level it first checks the immediate children, then does a full descendent search of all of its children. At each level it always looks at all immediate children first, before descending further. If the search is not successful, Merge then moves up a level in the parent hierarchy and begins the process again. (It does not re-search, already searched paths).
 - The `DOM()` and `DOMValue()` functions no longer anchor their search at `_document` but anchor on the `<domObj>` in `<domObj>.DOM("...")` or `<domObj>.DOMValue("...")`. This ensures that the proper occurrence of the referenced object will be returned, rather than always only the first occurrence.
 - Allow getting DOM properties: `_autoFormat`, `transparent`, `collate` and `numcopies`. It was possible to set them but not get. See <https://www.docorigin.com/doc/index.php#domProperties:DOM%20Properties>
 - Added `_mandatory` DOM Property. See <https://www.docorigin.com/doc/index.php#domProperties:DOM%20Properties>
 - Now `XmlInput` throws an exception in case of a parse error.
 - Made `_os.getMergeVersion()` available everywhere, not just in Merge.
 - Added the `_os.getVersion()` synonym to `_os.getMergeVersion()`.
 - Added DOM function `getAllTags`. See https://www.docorigin.com/doc/index.php#domObj_getAllTags:domObj.getAllTags
 - Added DOM function `relayout()` to be used to force the re-laying out of an object and all its descendants so that the actual height of the object is returned by `_height`. See https://www.docorigin.com/doc/index.php#domObj_relayout:domObj.relayout
- ConvertDatToXml
 - Clean up any temp file created when doing a symbolset conversion.
- FormConvert
 - Typeface names found in an XDP being converted, or in xhtml strings, can be overridden by the usual Design Alternate Typeface registry entries.
- SendMail
 - Now the "keep" option may be passed to individual email files. See ".keep" in https://www.docorigin.com/doc/index.php#_sendmail:_sendmail
 - The Default-DocOriginSendMailServer.prm no longer sets a placeholder `smtouser` or `smtopassword`. There is no longer a need to override them to setup "No Authentication" email operation.

- Other/Common
 - Significantly improved performance when working with log files. Most noticeable in FolderMonitor scenarios.
 - Added a -logSeverity command line option to limit log generation by severity level. Can improve performance dramatically. See <https://www.docorigin.com/doc/index.php#option-logSeverity:-logSeverity>
 - A -clearLog command line option has been implemented. Using -clearLog or -clearLog Y will empty the log before the run begins. This can be handy during dev/test. See <https://www.docorigin.com/doc/index.php#option-clearLog:-clearLog>
 - Profile/ini handling - added macro [Define] and expansion. Common strings (often long “base paths”) can be defined once and used throughout the ini file. Improves maintainability significantly. See “Text Substitution” in https://www.docorigin.com/doc/index.php#_profile:_profile

DocOrigin 3.1.002.03

04-October-2018

Major new features:

- Added the capability to have FolderMonitor and FolderMonitorSvc get their options from \$O/DocOriginFolderMonitor.ini instead of from the usual associated .prm files. See <https://www.docorigin.com/doc/#FMMultiInstance:Multiple%20Monitors>
 - Support the specification and use of overflow headers and footers on the Container object.
- Design
 - Design guidelines now extend to bottom of all panes even when panes extend below the bottom of the page.
 - Added “\$X Folder Mapping” reference to Help menu.
 - Fixed unintentional shift of a rotated label (any angle except 0, 90, 180, 270 angle) after entering/quitting text edit mode.
 - Ensure “Input” tab is displayed in “Common Properties” only when picked items include at least one object that is marked for input.
 - Added tooltip to “Auto field” toolbar button.
 - Merge
 - Extended logging to report the total document count per driver.
 - Corrected the PCL font name used for rotated text.
 - Design & Merge: sample data generation adjustments.
 - 1) Insert random spaces in text fields (more realistic looking)
 - 2) For multiline fields make minimum line count 2.
 - 3) Fix field overflow with test data for narrow fields – respect margins
 - Now use the -ImagePath option when we try to access images with a supplied path.
 - Fixed the drawing of 1D barcodes for PostScript. (The bars were too close together.)
 - Suppress the missing image file message.

- Avoid attempting to open the output as a printer when the file:: or run:: prefix is supplied.
 - Fixed PostScript and ZPL drivers to delete any created temporary TTF subset files.
 - Allow the Windows driver to use a custom paper size by setting PaperSize to 256 in the relevant prt file. Caveat: It is impossible to guarantee that this will be properly supported by all Windows printer drivers.
 - Ellipsis handling was modified to get the maximum number of characters on the line before the ellipsis is added.
 - The choice of ellipsis character can now also be set as an object tag, so on an object by object basis, not just an across-the-board -ellipsis option.
 - Our usage of the SpiderMonkey JavaScript engine has improved to the point where we no longer have a need for "DJ script". -allowDjScript is now inoperative.
 - When the -textpresentation=1 option (for line, rather than word, at a time placement) was used on PCL output, the output was not correct if there were font changes in mid text value. This has been fixed.
 - We no longer turn on borders to be rendered by the PDF viewer, for PDF input fields. Merge will render edges per your design specification.
 - When Merging with multiple forms, the combined form result now has a .xatw extension, which is good for downstream operations.
 - Now use meaningful temp file name extensions.
 - Now we use unified function for creating temporary files instead of the overly constrained OS specific built-in functions. We construct a name based on the template: "%T/{Prefix}%u.{Extension}|'tmp'".
- Scripting
 - XmlInput object
 - Throw an exception if the file cannot be opened
 - .get() returns only leaf nodes, not endTag objects
 - A leaf node object now includes the startTag property
 - The endTag object has a SOM that includes itself
 - next("name") finds startTags as well as endTags
 - The _document object now supports the DOM and DomValue functions.
 - Fixed _file.errno function to return the errno value that is specific to the _file function just called, not some leftover errno from other processing.
 - Improved error handling for file.xxx functions.
 - Now require the DOM property name to be called **_type**, not just type. It's perfectly reasonable for a form object to be called "type". **CAUTION : Make sure that none of your scripts in xatw files have a reference to <DOMObject>.type. If you do, replace it with <DOMObject>._type!!!**
 - Support !! as a conditional comment in scripts. Uses a new -phase command line option. If -phase=p[roduction] then the !! becomes //, otherwise it becomes blank-blank. See <https://www.docorigin.com/doc/#option-phase>
 - ConvertDatToXml
 - Several performance improvements were made.
 - Reduced memory usage.
 - Handle ITC color commands without ending dots.

- Fixed a problem with ^subform induced instantiation of panes that are child panes of a "oneChild" parent pane.
- FormConvert
 - Fixed the minH and minW processing for labels and fields.
 - Rotated labels
 - Fixed horizontal positioning for labels rotated to 90 or 270 degrees.
 - Fixed any necessary shrinking of a rotated label
 - Avoided carrying forward the \u160 hard-space before and after embedded fields (these are introduced in the interim XDP).
- FilterEditor
 - When looking for a leaf node in which to place the extracted value, check all the leaf nodes of the current parent before descending further down the tree.
 - Added a "Rule# *n*" comment into the xfilter file (should anyone ever text edit that file)
 - Augment the RULE display line with the WHEN statement. This makes it easier to select the rule of interest when doing maintenance.
 - Added some new debug script functions. See <https://www.docorigin.com/doc/#FEJavascript:FilterEditor%20JavaScript>
 - Added a \$\$SetPI() function to set a [DocOrigin] Process Instruction.
 - Made function key F5 the accelerator key for Xml Preview.
- FolderMonitor
 - Don't require that the DocOrigin PI be at the very start of a data line.
 - The FolderMonitor handling of DocOrigin PIs has been enhanced. See <https://www.docorigin.com/doc/#FMJobNameDiscovery:Job%20Name%20Discovery>
 - Support Unicode data file names.
 - Added a "-JPSName" command line arg to FolderMonitor and FMTransaction. This provides an efficient way to supply the name of the job processing script for an instance of FM that always processes only one type of job. See <https://www.docorigin.com/doc/#FMoption-JPSName>
- SendMail
 - Ensure log files are always saved, not just if -trace is set.

- Design
 - Fixed font selection combo box with wrong sample text.
 - Added new event, Finalize, for Form object. Used as the very last event in the job processing cycle. See <https://www.docorigin.com/doc/#MergeEvents:Merge%20Events>
 - Pane overflow dialog improvements were made for better user experience – sorting, wider columns, better XDP name resolution.
 - Fixed "Text Label" text copy/paste crash.
- Merge
 - When using multiple output configurations with a mixture of combined and single documents and requiring the embedding of fonts it was possible that a needed font was not embedded in one of the outputs. This has been fixed.
 - In the context of combining multiple forms into a document, the page n of m output can be on a form-by-form basis.. See <https://docorigin.com/doc/#AutomaticAndEmbeddedFields:Auto/Embedded%20Fields>
 - Added new event Finalize – the very last event in Merge processing. See <https://www.docorigin.com/doc/#MergeEvents:Merge%20Events>
 - Zebra RFID functionality was introduced.
 - Now PDF bookmarks can point to any page of a document, not just to the first page of a document. And more... See https://docorigin.com/doc/#domObj_bookmark:domObj.bookmark
 - Fixed pagination bug when a single Allow Multiple pane is repeated a huge number of times (Windows specific).
 - A significant performance improvement was made in pagination, most noticeable when paginating documents with hundreds of pages.
 - Fixed a bug in processing multiple page fillable PDFs that used repeating fields.
- Scripting
 - Removed limitation of 1000 characters per script lines.
 - Extended XmlFile constructor. See <https://docorigin.com/doc/#XmlFile:XmlFile%20Class>
 - SpellOut/SpellOutCurrency functions now can handle big integers (>2147483647).
- Setup
 - Do not delete FM/QM service on uninstall. This helps to save Windows service LogOn user/password on reinstall/upgrade. Will have effect only after this release is installed.
- Sendmail
 - The mailSentFolder and mailErrorFolder settings are now treated as templates which have their \$X and %x type elements resolved dynamically. See <https://www.docorigin.com/doc/#FileNamingConventions:File%20Naming%20Conventions>
- FolderMonitor:
 - Now both _merge() constructs: _merge("command line....") and _merge(argsObject) supply the applicable -monitor option to Merge.
- Other
 - Various minor improvements were made to PDFExtract, including its new support for the standard -logfile option.

- Design
 - To support users who make extensive use of Fragment libraries, *.xatwlib has been added to the default set of files in Design's file open dialog.
 - When saving auto generated test data files some users were accidentally overwriting their .xatw file. Now the test data file extension is forced to be .xml.
 - Added a new Design drawing tool () that can be used to quickly add Fields to a design when using a Design 'Image as Template...' background. This enables accurate positioning of fields over an existing scanned image or PDF page. See <https://www.docorigin.com/doc/#DesignImages>
 - A page of a PDF file can be used as a visual template for drawing a form.
 - Added the ability to use a PDF page as a source for an image. See <https://docorigin.com/doc/#DataFiles:PDF%20Page%20Images>
 - Added *Format-Object Tags...* keyboard accelerator: Ctrl+T.
 - Added keyboard accelerator for *Resize Text Labels to Minimum Height*: Alt+Ctrl+H.
- Merge
 - Significant Pagination speed improvements were made when using multi-column output with large numbers of flowed items.
 - Support templating in spooler doc names. See <https://www.docorigin.com/doc/#option-spoolerDocName:-spoolerDocName>
 - A new field type (Display as) of 'Comb' is now available. This creates a typical comb of separate boxes for each text letter. Controlled by the CombWidth property of the Field.
 - Add a TransparencyColor option to specify the background color for PNG images with alpha channel. This is most likely used in concert with a TransparencyMask option.
 - Provide alpha channel support for PNG images in PDF. (Note only PDF.) Disabled by default. See SupportAlpha option in Default-PDF.prt.
 - New -attachment command line option to attach a file to the generated PDF output. See <https://docorigin.com/doc/#option-attachment:-attachment>
 - New _printer script functions to manage PDF attachments at run-time. See https://docorigin.com/doc/#_printer:_printer
 - Merge image data items can now refer to PDF pages using the syntax:
<path>pdfName.pdf?page=3&dpi=150
 - A \$P folder mapping was introduced to allow users to specify a semicolon-separated "DO PATH" to files on their system. This facilitates easier, transportable, references to third party tools. See [https://www.docorigin.com/doc/#StringSubstitutions:\\$X%20String%20Substitutions](https://www.docorigin.com/doc/#StringSubstitutions:$X%20String%20Substitutions)
 - Allow the use of printer name "*" in _printer.setActive() to activate or deactivate all output configurations. See https://docorigin.com/doc/#_printer:_printer
- Sendmail
 - Support Office 365 email content line ending requirements.
- Setup
 - Put DO/Bin in the PATH on Windows.
 - The Windows development system has been migrated to Microsoft Visual Studio 2017. This requires a new C-Runtime redistributable package to be installed. Setup will automatically check if that package is installed.

- Design
 - Object Tag Dialog allows using a predefined choice list for tag values. Choices are defined in Design.prm.
 - Script Edit dialog - disable the Object Reference button when an Input event is being edited.
 - Fix problem of not enabling View>Script when there is script on only the Form Object.
 - Handle paste of emspace and enspace.
 - Draw Guidelines after all objects, so that the guidelines are always on top.
 - Add spinners to the element position dialogs.
 - When defining a grid, allow a specification of very fine grids, to the thousandth of a unit.
- Design changes to allow creation of PDF/UA output
 - Add Tagging to selected portion of a text Label. Visual feedback in Design using colored background.
 - Modify the Format Hyperlink dialog to include setting of Alt Text.
- Merge
 - PDF - add support for attaching files to meet the PDF/A3 standard.
 - Fixes to PDF/UA handling to support embedded tags within text labels, lists, and hyperlinks.
 - PCL - duplexing. Emit a specified backer page when there is a switch to requiring a front side placement.
 - Merge profile - added [@Variant] feature which can use data fields to determine which optional panes to use at run-time.
 - PDF size reduction via optimization of the pdf glyph width table when using a mono-spaced font.
 - When using CombineDocuments=No ensure that the output file is available in End-of-Document script processing. This has been the case for PDF, but is now true for PCL as well.
- Sendmail
 - Add readReceipt and deliveryReceipt options to emails. Note that recipients can disable these receipt requests.
- FormConvert
 - Made changes to have <subformSet> Leaders/Trailers from an XDP to be handled by creating a wrapper pane and attach them as overflow headers and footers to it.
 - We now create an unnamed pane at the bottom of the container that includes a definition for each embedded field that is referenced but is not defined anywhere else in the form.

- Scripting
 - Provided read/write scripting access to the `_lineSpacing` property.
 - Added function `_fromDOUnits` to simplify units conversion. See http://www.docorigin.com/doc/#_fromDOUnits.
 - Added function `_cache.logf()` to simplify work with `_cache` object. See http://www.docorigin.com/doc/#_cache.
 - Added function `_job.logf()` to facilitate script development/debugging by being able to report the entire `_job` context object with simply: `"_job.logf();"`. See http://www.docorigin.com/doc/#_job.
 - Added possibility to enumerate `_cache` object properties using JS, like `"for (var i in _cache)..."`.
- Merge
 - ConvertDatToXml: Don't output XML tags for fields, groups or panes that start with \$.
 - Fix colored edges and GrayEdgeOption for no color output in PCL.
 - Introduce Atkinson dithering method for image dithering in PCL. Dithering method setting (DitheringMethod) is now available in Default-LJ4.prt.
 - Fix for PCL color logos not printing after usage of a solid white background in a prior image object (which was user error).
 - Log exit code text for better result understanding, not just a number.
 - Improved PDF/UA support of processing tables that overflow across pages in that when the PDF is read the table is treated as one unit without intervening overflow header and footer pane info.
 - Automatic bookmarking of objects tagged as H1, H2, H3...
 - Zebra: Updated prt files with custom Swiss font configuration examples.
- Design
 - Improvements in line spacing settings.
 - Redesign of PDF Security dialog to make it more closely follow the Acrobat security dialogs.
 - If a pane that is used in a overflow header or footer spec is deleted, the overflow spec is updated automatically.
 - View all Tags menu item introduced.
 - Show Merge exit code name in Merge test dialog on failure.
- FMTransaction
 - Reverted to the behaviour where if the nominated JPS name does not exist, then use the default JPS. Made the messaging around JPS usage clearer.
- FilterEditor
 - If an XATW is specified for the sample XML file, FilterEditor will create the "autodata" XML file from the form design and use that as the sample XML.
 - Added F4 accelerator to simplify and speed up data extraction specifications. No need to right mouse click and use the context menu.
- ConfigEditor
 - Avoid exposing .otf font files in the font list since Merge processes only TrueType fonts.

- General
 - The Default-xxx.prm files no longer end with an @@\$/xxx.prm line. That line is presumed when the .prm file's name begins with Default- and resides in the DO/Bin folder. This should prevent users from copying a default .prm file to override it and then forgetting to remove that @@\$/ line, thereby causing an infinite loop.
- Scripting
 - Improve the performance of `_file.readFile()`, especially noticeable on very large files.
 - Fix the off-by-1 line number reported in diagnostics
 - In DJ scripting improve performance by reducing the internal global and *Temp* variable table as soon as possible.
 - Fix `<locale>.currentDate` and `<locale>.currentTime` in terms of defaulting all parameters.
 - `_sendMail`. Leading and trailing whitespace is now removed from To, Cc, Bcc, From options.
 - Restrict `_rowCount` to count only child rows or child panes.
- Merge
 - Correct the saving of embedded data in PDF documents.
 - The effective locale is propagated throughout the form template DOM on startup. (Performance improvement reasons.)
 - Support faster numeric/currency formatting in the en_US locale.
 - In rtf support `\fcharset186`, i.e. cp1257 (e.g. Latvia).
- Design
 - Show the locale-in-effect rather than just "(default)". An * is also shown if the locale was set explicitly on that object.
 - Design's locale is not defaulted to en_US but takes the OS value or the `-locale` option in the Design.prm file.
 - The [?] button, used to explain locale settings, is now on every dialog that shows a [Locale] button.
 - Correct the processing of Ctrl-arrow keys when operating on a table object
 - Allow row height reduction by property page input, not just via mouse drag
 - Initial table row height matches the default font (Arial 10pt) so .2" tall.
 - When a table is dropped on the canvas with a single click, the table height varies depending on whether header or footer rows were requested. I.e. the row height remains consistent.
 - When picking a text label object or entering a new text label the Font tab of the Common Properties dialog is not brought to the front. The user is in control.
- FMTransaction
 - Be more accurate in the log messaging around job name determination and usage.
 - If a JND script returns a name that is not found in the `scriptFolder`, then the job will be rejected, rather than running `$/Default-JobProcessing.wjs`. If you really want that run, have your JND return "`_default_`". Note that if a `jobName.wjs` file is not found it will try to find `jobName.jps`.

- Design
 - When importing an XDP, the proper name for a detected “floating field” is used in DocOrigin’s embedded field syntax.
 - Sometimes ConvertIFDShell (from Adobe) produces an erroneous `layout="position"` attribute on a subform. Design tries its best to cope with that.
 - When generating autodata, reduce the number of digits supplied if currency formatting applies. This avoids “field overflowed” warnings.
 - Disallow the use of dash and dot in field names. They would conflict with the interpretation of those characters in scripting.
 - Augment `_system.rename()` to allow for character-by-character replacement. This allows Start-of-Job script to fix xml that foolishly has tag names that have dash or dot in them. `_system.rename("-", "__", true);`
 - When a preview is done and Design checks the Merge log file for any issues, Design now considers only log file lines that begin with the timestamp pattern. This prevents potential false worries about lines logged out by the user.
 - Ensure the QRCode and Maxicode barcodes are always square.
 - The ‘Collapse all panes’ menu operation takes one to a consistent opening display where an overview of the form’s top-level pane structure can be discerned.
- Scripting
 - Fixed DJ `.split()`’s handling of multi-character split strings.
 - Fixed `_parser.delimited()` to handle spaces around the chosen delimiter character.
 - Use of `_parser` will force a switch to use of SM, not DJ.
 - In Merge, the `clone()` function is now allowed to be used in the Start-of-Document event.
 - Fixed a crash in DJ scripting when, through user error, a text string was incorrectly assigned directly to a DOM object, (not to a property of the DOM object, but to the DOM object itself).
 - In SM scripting prevent a significant memory leak, especially problematic when reading huge files.
 - In Merge (only!), support an `xhtmlToRtf()` function to convert an xhtml string to its RTF equivalent. Note this is not any old xhtml construct but reflects that which is needed for importing XDPs, typically bolding etc.
 - The function names `DOMValue()` and `DOM()` are supported and preferred over the deprecated `_DOMValue()` and `_DOM()`.
- FilterEditor
 - Now has a fixed initial state of `*Start*`.
 - Now handles accented characters in xml tag names.
 - Reports the correct line number in errors relating to the `.xfilter` file (was off by one).
- Merge
 - For input pushbuttons the label string setting, if supplied, is now used instead of the object’s value.

- The sample Web PHP files now reference `C:\DocOrigin` (not `C:\DocOrigin3.0`) and `echo.php` had a typo fixed.
- Fixed the sample data file encoding of `Sample_FunctionUsage.xml`.
- Fixed a syntax issue on Linux in the `Sample_Extract` example.
- `-scriptFolder` is now allowed and the preferred option name, with `-scriptPath` being a deprecated alternative.
- The Merge statistics recording now supports larger numbers.
- When using a PS2 output configuration, support the `run: : output` option the same as other output configurations do.
- The name of the printer in the `Default-PS2.prt` output configuration has been changed to `PS2` (not `PostScript2`). This means that the applicable printer options would use the `PS2` prefix, e.g. `-PS2CombineDocuments`.
- A return of 0 or 1 from a `.wjs`-based filter is considered successful. (Used to have to be 1).
- **PCExtract/PS2Extract**
 - The option name is `-docs`, not `-doc`. Fix an otherwise misleading diagnostic to reflect that.
 - Handle the situation when a user specifies a document range that goes past the number of available documents.
 - *fyi*: Unlike `PDFExtract`, `PCExtract` and `PS2Extract` support only one input file.
- **PDFExtract**
 - On Linux, make `-dumpIndex` operational even when no `-out` is specified. The output goes to the console (`/dev/tty`).

DocOrigin 3.1.001.20

20-June-2017

- **General**
 - Adjust copyright strings to refer to Eclipse Corporation
 - *** Bring the AIX release up to the current build
 - On Windows installs warn the installer if this new install will result in a spoiler stripe based on an expired M&S agreement.
 - Minor fix to the sample `Sample_Invoice.xml`
 - The `echo.php` sample, for submissions from PDF, now reports `"."` as the segment separator, not `"_"` (i.e. the same as for submissions from HTML).
- **Merge**
 - Fix issue using `_file.resolveName()` at End-of-Job.
 - *** Support a "OneChild" object tag for a parent pane of multiple child panes, each of which are allowed to come out in any order. This is to address data streams that like to control the output order rather than leave it to the presentation software to define the layout. *[Central JfMerge users often did that.]*
 - Define the `_parser` function in Merge so it can be used inside form design scripts.
 - Fix messages that report invalid usage of a property name to report the correct property name.
 - *** Fix the handling of the `_num` property. It is not at all dependent on the locale of the field, but on only `_system.setDecimal()`.
 - Fix the handling of property settings that inadvertently caused `_raw` to become `""`.
 - Make the setting of `_document.localeName` take effect.
 - Fix an Interleaved 2 of 5 barcode issue that could lead to undefined results.

- Fix the target rectangle (the sensitive-to -click area) for rotated hyperlinks in PDF.
- Design
 - When showing the locale settings for an object (hit the [?] button next to [Locale]) it now shows the effective locale taking into account inheritance from its ancestor objects.
 - When editing text the Shift-Home/End key combos are operative. The Undo/Redo accelerator keys are standardized.
 - A new license key flag can disable the use of Design in what are intended to be server-only installs. Applies to some OEM scenarios – Merge but no Design.
- FilterEditor
 - Allow the overlay file's symbolset to be reset (in case of an error, or the switch to a new sample overlay file).
 - Use \$\$X (the folder where this .xfilter file is) in recording where the form, overlay, and sample XML files are. This makes .xfilter files more portable.
- Scripting
 - *** Make the -debug Y/N option apply to any DocOrigin executable, not just Merge.
 - *** Support an _dlogf() convenience function. It is the equivalent of if (_DEBUG) _logf(...). So you can readily code in debug logging but have it not executed in production.
 - XmlFile now handles the output of arrays of objects. This is especially useful in handling JSON-based objects.
- FMTransaction
 - Default its -scriptPath option to ". ". This facilitates standalone testing of JND and JPS scripts by running FMTransaction directly. Normally, it is run via FolderMonitor, in which case the -scriptPath option will have been set by a .prm file.
- DocOriginCombineForms
 - Handle UNC form paths in the forms list.

DocOrigin 3.1.001.19

25-May-2017

- Merge
 - On Linux only, if -alert settings caused several emails to be issued in rapid succession, some email could be sent multiple times. Fixed.

DocOrigin 3.1.001.18

18-May-2017

- Design
 - Improvements were made to the display of Thai characters on the Design canvas.
- Merge
 - An _templateObject property was added that allows access to the Template DOM from the generated Document DOM. E.g. you could detect the height of a field as designed as opposed to its height once it has been adjusted.
 - A fix was made to DJScript to avoid looping when a semicolon was left off of a script line.
 - Improvements were made in the drawing of Thai characters when using WIN output configurations.

DocOrigin 3.1.001.17

1-May-2017

- Design
 - Support a `-locale` option to set the default locale for the session. Known to affect the display of the list of known locales.
 - Avoid including empty script/calculation source from XDPs when converting to DocOrigin object notes.
 - Fix the handling of embedded field references in IFDs.
 - A '?' button has been added next to the [Locale] buttons on the modal and modeless Field property dialogs.
 - Added F8 and Ctrl-F8 accelerator keys for "Merge Test...".
- Merge
 - Restore the needed symbolset when using "SynthBold" on text strings that mix fonts.
 - When splitting long rtf streams of text across pages, preserve blanks as you cross pages.
 - Support a `-locale` option to set the default locale for the whole run.
 - Support the `-alert` option on Linux.
 - When reporting characters used but not available in the specified font, supply the character in UTF8 as well as plain decimal and hex.
 - Support new script functions `DOM("a.b.c")` and `DOMValue("a.b.c")`. That is, be able to supply a dotted notation string and have it safely resolved. This is a reaction to seeing user scripts that ignore the possibility of non-existence of some optional panes. Referencing the children of panes that don't exist will result in script failure. These functions should help you alleviate that issue.
 - `<loc>.spellOut` of very, very large numbers surpasses ICU's limits. These limits are now checked first.
 - `_printer.getOutputFile()` drops any `file::` prefix to make usage of the file name easier for users.
 - Reuse PCL font IDs once Merge moves on to the next document.
- CombineForms
 - Handle trailing semicolons in the form list and other whitespace around the semicolons.

DocOrigin 3.1.001.16

24-March-2017

- Design
 - Added support for HTML5 audio and video controls and for help text on the field input dialog.
 - Dropped the unused `Overflow Pg.` dropdown from the Pane Properties dialog. You should continue to specify the page layout to overflow to, on the Page Properties dialog.
 - Allow colour choices to be specified in basic CMYK (as well as the usual RGB)
 - Added support for Design-time guidelines (construction lines).
 - `CheckboxShape`, `CheckboxStyle`, `RadioButtonShape`, and `RadioButtonStyle` can now be specified as object tags. Hence they are available on an object by object basis, not just across-the-board per chosen output configuration (`.prt`).
- Merge
 - Script access provided for the audio and video controls.

- Support a `-colorSpace` option to specify an alternative color profile (.icc) file. This feature can be used to provide color correction, if needed, for different printers and media.
- PDFExtract
 - Now uses documented positive return codes.
 - Supports an unlimited number of `-in` PDF file arguments. (Had been limited to 50).

DocOrigin 3.1.001.15

10-February-2017

- Merge
 - Default-WIN now defaults the `SplitSegs` setting to `No` since native Windows drivers do text placement based on their own metrics. Without this there were sometimes surprising gaps in the middle of words.
 - Various duplexing fixes were made with respect to switching between simplex and duplex in a single document. Affects PDF and PS2.
 - The `reparent()` function allows you to set the new parent to `NULL`, effectively taking the DOM object out of the tree, but not actually deleting it. You might restore it to the tree later on. (Rarely used.)
 - Support strikethrough text ornamentation, per Design and per rtf input.
 - In the context of PCL, with downloaded softfonts, and custom font select sequences, a fix was made in terms of 'too frequent' symbolset selection. (It's complicated!)
 - Support was provided for emitting wide barcode bars on TEC printers whose language spec does not support the requisite number of digits. (Also complicated!)
 - Added a `ConvertXmlToUtf8` filter which uses and revises the encoding in the XML specification line to guide the conversion.
 - Namespace checking is no longer done when reading XML files.
 - Validation against an XSD is no longer done when reading XML files.
 - Provided an `attribute()` function to allow a scripter to get the value of an XML-specified attribute for the given XML `_data` node or document DOM field node. E.g.


```
<Field1 name="George">abcde</Field1>
```

`Field1._dataSource.attribute("name")` returns: "George".

Note: Curiously, you must specify `-ConvertAttributes No` as otherwise there will not be any attributes in the XML that Merge reads.
 - Fixed a bug in `<fp>.fread(n)`; It was not converting `n` properly.
 - In PS2, Merge handles the insertion of the applicable duplex DSC configuration lines automatically.
- Design
 - Import of an IFD does its best to fix the incorrect conversion done by the Adobe® conversion utility of email addresses in text labels marked as containing embedded field references. E.g. `someone@company.com` not `someone[company]com`.
 - Support marking portions of text labels as strikethrough. E.g. ~~strikethrough~~.
 - If a pane used as a header or footer is renamed, all references to that name are updated automatically.
 - ScriptEditor processes double-click differently such that underscores are accepted as part of a word, and a trailing blank is not included.
 - ScriptEditor offers an AutoFormat button which does proper code indentation.
 - ScriptEditor colour codes commented out lines in green.

- Design remembers and reuses the size and location of dialogs which the user may have adjusted. E.g. ScriptEditor.

DocOrigin 3.1.001.14

10-January-2017

- Merge
 - Fix a crash on Linux with non-Color LJ4 when dealing with images with colour.
 - Select the overflow footer/header pane that is defined on the overflowing page. This is especially relevant when you are combining forms with similar structures and pane names.
 - Sheet count information provided in a log message.
 - Added a `descendant()` function to more easily detect if an optional pane exists. Use it! Do not blindly refer to properties or children of objects that may not even exist.
 - Ensure the `_childNamed()` function, and others, were defined at the `_document` level itself.
- Multi-Merge
 - Support PCL, PDF, and PS2 (as well as HTML).
- Design
 - Allow pages to have object tags.
- QueueMonitor
 - Make the generated file names more finely grained than just 'to the second'. Avoid overwrites.
- Copyrights – include copyright info for the FreeType library.
- Scripting
 - Support the `_odbc` object and API on Linux. (Used to be on only Windows).

DocOrigin 3.1.001.13

24-December-2016

- ConvertDatToXml
 - Support a `-newline c` option that provides the specification of an alternate newline character.
 - Support `^file` commands in the input data stream.
 - When using `-substitute allow \n` to be used in the replacement text, so as to insert a newline character.
 - When transitioning after `^form` or `^subform` ensure that the current pane context is updated. This helps in handling field names that occur in multiple subforms.
- Design
 - Provide a right-click context menu, 'TagAs', to more easily accomplish PDF/UA tagging.
 - Allow the tags presented in the TagAs menu to be specified in the overrides `Design.prm` file.
 - IFD/XDP conversion: Cope with incorrect tab specification syntax in an XDP.
 - Provide sample data for input fields marked as read-only.
 - Fix the erroneous interpretation of 'D' as 'Ctrl-D' in the modeless property dialog.
- `_sendmail`

- Allow all the options used in DocOriginSendMailServer.prm to be supplied in the arguments to an `_sendmail()` call or as send options in the `_email_` auto-email pane. E.g. you can supply `smtphost` and `smtpport` in an `_sendmail()` call.
- ConfigEditor
 - Support editing of ZPL and TEC configuration files.
- Merge
 - Correct the handling of `_data` references to non-existent data nodes and also correct the result of the `typeof` operator on `_data` nodes.
 - Correct remaining 'edge case' issues with word-wrapping involving leading blanks.
 - Support an `_sheetCount` property.
 - Support more functions that used to be available using only the SpiderMonkey JavaScript engine, in the DJScript JavaScript engine.
- CombineForms
 - Support exceedingly long text label content.
- Samples
 - Correct the data file for `Sample_PurchaseOrder`.
 - Correct the sample `.TIF` files.
 - Make `XmlAttrs.wjs` follow filter parameter standards. Ignore any name-spaced attributes.

DocOrigin 3.1.001.12

12-November-2016

- Merge
 - Command line options are now allowed to exceed 1,000 characters. *Suggestion: You really should use .prm files when your options get long or complicated.*
 - Merge supports `_job.id` and `_job.datafile` inside Merge scripts so as to be consistent with their availability in Job Name Discovery and Job Processing scripts as well as in RunScript scripts.
 - A fix has been made to handle file references of the format: `@//server/share/...`, or indirectly via `@$X/path/name`, where `$X` mapped to a location of the format: `//server/share/...`
 - Allow the paths and names of temporary files to be up to 4096 characters long. In some situations the value of the `TMPDIR` variable can be a quite long path.
 - Fix the application of the `ChartGap` option setting such that usage of the chart's group area is maximized. Do use margin specifications on the group itself as desired.
 - Support new charting options: `ShowXTicks`, `ShowYTicks`, `ColorColumn`, and `LegendLabel`. Among other things, the colour of a bar can be chosen by the data array. See: [Chart Options](#).
 - Word wrapping now removes leading blanks on "overflow" lines created by word wrapping.
 - A fix was made to the `appendInstance` function such that it handles row objects as well as pane objects, including being able to provide the name of the row that is to get another instance.
 - The DataMatrix barcode is now available from the TEC fragment library. A fix was made for DataMatrix barcodes on TEC label printers to be able to set the module size.
 - DocOrigin command line options are case insensitive. JavaScript is case sensitive. As a special case, JavaScript references to `_job.command.xxxxxx` properties have been made case insensitive. Only for command line options; don't expect that anywhere else.

- ODBC support has been added to DocOrigin JavaScript. From JavaScript connect to a database, execute select statements, fetch rows, examine column values... See: [ODBC](#).
- When reading TTFs, watch for invalid characters $\geq 0xFFFF$ which seem to occur in some less than perfect TTFs.
- A fix was made in handling `undefined` object properties in the DJ Script engine.
- The DJ Script engine now handles references to the `_data` DOM. This reduces the need for an internal shift to using the slower SpiderMonkey engine.
- The DJ Script engine now supports the syntax: `for (var x in obj)`. Before it supported "only" `for (x in obj)`.
- Embedded field references, i.e. `[FieldName]` references, have been improved to do an ever expanding search so as to find the nearest, most relevant, field. Normally such references are to fields which occur only once but some people ...
- `-showNames`. This debugging aid has been around quietly for a while. You *may* wish to look at the documentation at: [ShowNames](#)
- Design
 - An icon now appears in the Form Explorer panel next to any object that has Object Tags. This is very helpful when adjusting PDF/UA tags, barcode related tags, or any custom tags. Do use the `Ctrl-G` accelerator key for fast access. Hopefully, you've already seen the icon that appears when an object has been given "Notes".
 - The area outside of the physical page extents now has a very subtle shading to help you know where the physical page area ends.
 - When you lasso several objects on the Design canvas, objects that are marked as: Visible None (`_presence="none"`) are not selected. What you can't see you can't select by accident.
- ConvertDatToXml
 - `-oneChild paneName`. This option has been available for a while now but you may want to look at the documentation for it at: [Data Order](#)

DocOrigin 3.1.001.11

14-October-2016

- Merge
 - Now supports rotation of images to 90° increments (also in Design of course)
 - Fixes some issues related to documents that have a mixture of simplex and duplex output. For PDF, if any portion of the output is duplexed then all of it is created as ready for duplex printing, in that blank surfaces are inserted to make that viable. This is necessary to accommodate having a PDF for archive and easy reprint purposes. For PCL, blank surfaces do not need to be inserted but the applicable switch to a new surface escape sequence is needed depending on simplex/duplex and page placement options.
 - Provides script access to `_duplex`, `_pagePlacement`, `_localeName`, `_allowMultiple` and read-only access to `_originalForm`.
 - Fix to an issue with `spelloutCurrency()` with very, very large values.
 - Fix with handling `[!Date]`, `[!Time]` and `[!DateTime]` with non-default locales.
 - Have the `clone()` function take an additional argument. Also doc'ed.
 - Recognizes Microsoft printer drivers of type 3 but with attribute `PRINTER_DRIVER_XPS` as requiring the `XPS_PASS` flag on open so as to bypass a Microsoft presumption that the file format is XPS. This has been happening for Microsoft printer driver type 4 for quite some time now. The type 3 + flag is new. Without the `XPS_PASS` flag the output can be flushed.

- FolderMonitor
 - Supports running a script whenever an FM instance starts or stops. A `Default-FMScript.wjs` is supplied. It can be overridden with the new `-FMScript` option.
- FilterCarriageControl (and elsewhere)
 - When reading a file across the network, especially for very non-local access, a significant performance improvement has been made.
- Design
 - An issue with import of a text label that is rotated and has a width of zero has been detected and fixed.
 - Provides UI support to set “Allow split” for text labels and groups, also provides script access to `_allowSplit`.
 - Subtle background shading to help identify the edge of the “paper” when you are creating boilerplate background or when creating a long layout that, at Design time, goes beyond the end of the paper.

DocOrigin 3.1.001.09

25-September-2016

- Merge
 - Charting: Now assumes all incoming data is in dot-as-decimal notation regardless of any specified locale. If it is not, then prior adjustment of the data will be required. In the past, automatic interpretation of incoming data per the locale of the chart proved both problematic and quite possibly incorrect.
 - Charting: Allow the suppression of one or more columns of data. For example an `_loadAsArray` call might load up several columns of data, but a given chart may wish to present only one or two of the columns in the resultant array.
 - `_auto date, time` and `datetime` had issues on Linux – fixed.
 - `<domObj>.getTag` and `.setTag` are the new, preferred, names for the old `<domObj>.getParm` and `.setParm`. Those older names are still supported for backwards compatibility purposes.
 - Using `CombineDocuments=Yes` with fillable form designs is not allowed. In such usage situations an error message is issued and the Merge run is stopped as soon as a second document is encountered.
 - TEC driver fixes particularly related to “synthbold”.
 - `TextPresentation=4` (rasterize the text) is now available as an object tag, so on an object-by-object basis, rather than only across the board. Note that this is most particularly related to label printers.
 - When using an xfilter that specified the use of carriage control and that the input file was already in UTF-8 encoding then fix an erroneous file deletion.
 - HTML driver. A `-scriptTools Y/N` option has been defined to allow you to easily suppress inclusion of much JavaScript code that is not used in other than input HTML forms. Of course you could and can always override the entire `Default-DOHtmlTemplate.htm` file.
- Scripting
 - `_sendmail` now hardens the paths supplied for attachments or text/html body content. Hence you can use `$X` folder mappings in those argument values.

- `_os.type` is now supported with the DJ JavaScript engine.
- Design
 - Now preserves object tags and notes when converting between fields and labels.
 - View-All Notes is now read-only.
 - Immediately after inserting a fragment you can use Ctrl-D to duplicate that fragment. In general, Ctrl keys interception, while in a modeless dialog, has been improved.
 - On import of an IFD/XDP allow for different typefaces within a single text label object.
- FilterEditor
 - Trim blanks is now trim whitespace in that it will remove all characters with codes between 01 and 31, e.g. including cr, lf, ff, and tab.
- Documentation
 - Much reorganizing of the command line options such that each program has its own list of options that apply to it.
 - Charting: Documentation added to identify yet more options in displaying values on axes and legends.
 - Existence of `<locale>.name` function documented.
- Miscellaneous
 - `CopyDataFile` has been added to the Linux install set.
 - In FolderMonitor, the “filtering out active file” message is now a trace message. It reflects perfectly normal operations that needn’t clutter the regular log.
 - Lines in a `.prm` file that start with `[` are considered to be comment lines.

DocOrigin 3.1.001.08

12-September-2016

- Merge
 - A TEC label printer driver is now included, currently as a beta or preview release.
 - Support was added for the Pharmacode barcode, both 1-track and 2-track. This includes barcodes in colour.
 - In PCL, if the same image file is used in multiple places on a document *and those places are not the same size* we now define a new image macro for each encountered size. Apparently people rarely do this as it has not been reported over years of use.
 - In PCL, on a non-colour printer, rotated text might not show up if it came after the output of a shaded rectangle. Fixed.
 - Barcodes in HTML were not respecting the object’s margin settings.
- Scripting
 - `_loadAsArray` fixed its handling of its optional second argument. This makes it easy to supply the names for the values being loaded from the data stream.
 - DJScript fixed for handling `_fullName` for `_data` DOM objects.
- ConvertDatToXml
 - Converts `\U+xxxx.` syntax in data values to the applicable Unicode characters. This is also reflected in the `_inlineToRtf` script function.
- CopyDataFile
 - Supports leading `-metadata Yes` parameters to cause file name, submitter, and submission time metadata to be appended to the copied file in a way that DocOrigin detects. This is typically used to copy data to a QueueMonitor-based virtual printer, or directly to a FolderMonitor watched folder. This information is made available to scripts (e.g. Job Processing Scripts) via the `_metaData` object.
- FolderMonitor

- Correct an extension renaming problem that existed when a job's file name had two extensions. (aaaaaa.bbb.ccc)
- Design
 - The Format-Rotate to a custom, non 90°, angle dialog now gets its initial focus set properly to ease angle entry.
 - With unusual changes in window focus, it was possible (rare) to have an object lose its assigned name. Fixed.
 - When you select a single text label in the Form Explorer panel and hit <Esc> you will be put directly into text edit mode for that text label.
- Docs
 - The following were documented or significantly revised: `_inlineToRtf`, `_os.userName`, `_loadAsArray`, `_loadAsObject`, `<domObj>.setTag`, `Chart Display Options`, `_metaData`.
 - BTW: For some time now the online docs have been searchable. You may wish to note that there are two ways to search. If you know the "key" word and key it in, a dropdown list will give you the choices of where that word exists. This can be easier/quicker than navigating the table of contents. If you don't know the exact word such that you don't get a dropdown list, you can hit <Enter>, or click the magnifying glass, and it will provide a typical search results list with links and some lines of context per 'hit'.

DocOrigin 3.1.001.07

1-September-2016

- Merge
 - Charting: Extended the `DatasetNames` chart display options property so as to control when X-axis tick marks come out for line charts. Some line charts with large numbers of data samples resulted in too tightly spaced tick marks. These new options allow (for example) only every 10th tick mark to be drawn.
 - Added a "Tall" page (50") to the Default-HTM.prt configuration's page size list. This has been added to allow the HTM output to create longer single pages rather than invoking Merge's normal pagination to create multiple pages.
 - HTML driver: support an "imageURL" object tag to specify that the image should not be embedded but instead refer to an external location.
 - Sending mail. Put the multi-part boundary definitions within quotation marks since some email servers/clients cannot handle the obscure syntax that iCloud.com uses otherwise, and iCloud.com can't handle simple boundary strings that should require no quotation marks without quotation marks.
 - Sending mail: Allow the `-smtphost` option to explicitly include the `smtp://` (the default) or `smtps://` protocol. Particularly useful for using


```
-smtphost smtps://smtp.gmail.com
```

 for your email sending services.
 - Return any encountered return code rather than returning 0 (especially useful when using the `rc = _merge()` function call.)
 - In the Merge Test dialog, Design now passes along all strings entered into the "Output To:" box starting with `prt::` or `run::` without modification. This allows internet printing protocol destinations such as `prt:: http://169.254.15.2:631/ipp/port1` to be passed to Merge in its `-output` command line option.

- ConvertDatToXml
 - When converting text that might contain Central “inline” commands (e.g. \b0) try to avoid misinterpretation of file names with backslashes as inline commands. If the starting text for a field looks like a file name, leave that text alone.
- FilterEditor
 - Support resolution of \$X vars in file names.
- MultiMerge
 - Introduced a new program that allows for multiple Merge outputs to be combined into one result. Currently this is explicitly for producing “Adaptive HTML” based on multiple views, e.g. a view for phones, and a view for tablets/screens. The output then displays correctly for whichever device refers to the HTML.
- Design
 - Updated “Fundamentals of DocOrigin Design” posted in the online documentation.
 - Fix the Ctrl-arrow feature for adjusting the width or height of an object such that it still works when the anchored edge is on its parent’s boundary. Also prevent the width or height being reduced to zero.

DocOrigin 3.1.001.06

16-August-2016

- Updated Sample_PurchaseOrder form design.
- Merge
 - Handle white lines and white text better in the context of non-color PCL printers
 - Restore printing system context by “calling”, not “executing”, an image macro for PCL printers.
 - PCL printing, at the last moment, converts a hard space (0xA0) to a normal space (0x20). This was done because some printers went awry in wandering off into some other symbolset when they encountered a hard space.
 - ZPL driver now includes the DPI setting in its version comment.
 - ZPL driver now supports the <SynthBold> option.
 - Fix made when using -PrintInDocumentOrder=Y in combination with transparent images.
 - Rasterized text can be used if there is no TTF available. Mostly for label printer usage but applies elsewhere too.
 - Rasterized text made available for HTML output as well.
 - In HTML, a fix was made for wrapping text with URLs that were preceded by multiple blanks.
 - When processing an embedded field reference [*fieldname*], if the field has been supplied as <*fieldname*> or <*fieldname*></*fieldname*> then do replace that embedded reference with an empty string. It used to leave the embedded reference unchanged. Note that if the field does not occur at all in the data stream then the reference will continue to be left in, unchanged.
 - Auto email: References to embedded fields [*fieldname*] are now handled automatically in every _sendmail() argument. Also supports references to file names as in [*@fileName*].

- Auto email: The options string can now include `html: value` and `text: value` specifications. That is, you can nominate the contents of the body of your email directly in the options string (likely referring to an external file).
- When using `-DumpTimes` you can specify a target file name rather than getting the default "Times.txt" name.
- ConvertDatToXml
 - If all of the data is ^global, with no ^field data that matches any field in the form design, now that ^global data will be emitted.
 - The trailing newline (\n) in data values is now more consistently removed.
- FilterEditor
 - Ensure that overlay file lines end in a newline (\n). Correct erroneous mainframe-produced lines that end in a nul newline (\0\n) sequence.
- Design
 - When Design loads up an object template from the relevant xml file (in .../DO/Bin) it often includes a reference to the Arial font. However, some .prt files (e.g. ZPL ones) don't have the Arial font. Design now replaces the Arial choice with the first font specified in the .prt (often Zebra-0).
 - Avoid a potential crash when switching a form design from one .prt to another.
- Scripting
 - `_file.exists()` now checks for more conditions to determine if a file exists or not.
 - `_file.getOpenFileName()` and `_file.getSaveFileName()` now save and restore the current directory so that it is not changed by the user's browsing actions.
 - `_dmessage` and `_message` are now consistent between "SM" and "DJ" JavaScript engines. They are aware of a "runFromService" context and will not hang a service with a hidden message dialog.
- ConfigEditor
 - In the "Print driver:" dropdown, supply ZPL as a possible driver.
 - In the DPI dropdown, supply DPI values that are relevant to ZPL printers.

DocOrigin 3.1.001.05

30-June-2016

- Merge
 - Emergency fix for embedding fonts when the `-PDFCombineDocuments` setting was No.
 - Charting: X-axis labels can now go from -90° to 90°. The handling of right-justification of labels that go "up" to the right has been improved.
 - Charting: A `FeatureColor` option has been added so that you can make specific bars of interest stand out with a different color.
- Design
 - Some font specification changes to better support ultra-hi-res displays. Text was coming out too small in some areas.

DocOrigin 3.1.001.04

26-June-2016

- Design
 - Fix for an issue with the nudge wider/taller (Ctrl-arrow) function when the object's parent had a margin.
- Merge
 - Fix for [!Date format] on Linux.
 - Fix for Zebra output when UTF8 format is not supported (use PC850 instead).
 - `_sendmail` address list handling: fix issue with extra "noise" semicolons (multiple, leading, trailing) and spaces.
 - Fix for an image object's transparency setting not being properly reset.
 - Charting (See http://www.docorigin.com/doc/#_chart_options)
 - `_loadAsArray()` applies the current object's locale when interpreting the numerical values it reads.
 - `_loadAsArray()` provides an option to easily supply the names of the values, e.g. for display in the legend, external to the data being read.
 - X-axis labels can be sparse (e.g. every 3rd tick mark) so that labels don't overlap.
 - Added options to suppress the X or Y axis display.
 - Added option to display the value on the bar (just as occurs for pie slices). Quite useful for stacked bar charts.
 - Added the option to display the X-axis labels at an angle from 0 to 90°.
- PDFExtract
 - Support a `-attach <file>[;description]` option so that an arbitrary file can be made an attachment inside the PDF. While this functionality is in PDFExtract, in usage it will probably be launched with `_run()` from inside a Merge script.

DocOrigin 3.1.001.03

8-June-2016

- Design
 - Enhancements to the `Format-Object Tags...` interface. Also added its Help file.
 - Correction made to container sizing when switching configurations
 - Added `From:` and `Options` elements to the `_email_fragment` and its processing.
- Scripting
 - Added a `_parser.parms()` function to parse `name="value"` sequences.
 - In Merge, object resizing operations are now carried out in DJ script, as is the case in Spidermonkey scripting.
 - `_sendmail` accepts/prefers the `-queue` option, deprecates the `-sendmail` option.
 - `_sendmail` has adjusted its multi-part boundary values, beyond spec, to apparently appease iCloud.com email servers.
 - Eased the use of output redirection in command lines executed via `_run()`.
- PDFExtract
 - Now hardens the paths of file names provided using folder mappings (`$X`)
 - Internals are now capable of handling different versions of PDF format.
- Merge

- Fix problem with line-at-a-time (`-TextPresentation=1`) text justification involving parent object margins.
- Now populates global fields in the overflow header rows of tables.
- Linux has the PDF/A and PDF/UA metadata files and the color space definition file included in its install.

DocOrigin 3.1.001.02

21-May-2016

- Merge
 - Fix an issue with PDF/A and PDF/UA
 - Support a `<domObj>.clone()` script function. Use on descendants, not *this* or ancestors!
 - Support an `_alternateBackgroundColor` property
 - Skip attempts to set properties on the readonly `_data` DOM.
 - Allow `appendInstance` to apply to Rows (not just Panes)
 - Process the `-debug` option as intended – to enable the `dmessage()` function.
 - Make the lack of a bold variation of a font just an Information-level message.
 - Support a picture format object for auto-embedded fields such as `[!date format]`
 - Support an override `$O/DocOrigin_EN.xml` file wherein you can have override text and severity for specific messages. Also support a severity level of “Suppress” to suppress issuing such messages.
- FilterEditor
 - When a maximum number of overlay lines is set, quit reading the input file when that is reached.
- Design
 - Allow for some small tolerance in detecting if a vertical line is the full height of its parent pane. This affects the Form Verification Report.
 - When a page is deleted or renamed, references to it as an overflow page are automatically removed

DocOrigin 3.1.001.01

15-May-2016

This is a significant update, moving from 3.0 to 3.1. The default folder for new installs is DocOrigin, not DocOrigin3.0. That is, the version number has been removed. On Windows, the installation technology is such that it will default to overwriting DocOrigin3.0, unless you do a Control Panel based uninstall of DocOrigin first. Of course we would like you to switch to a DocOrigin folder rather than running “3.1” in a “3.0” folder. You have to be wary of any use of hard-coded paths that reference DocOrigin3.0. You should not have done that, but rather have used the standard folder mappings such as `$U`. Please review any use you may have made of hard-coded file paths. When you are ready, please switch to using a DocOrigin folder rather than one named DocOrigin3.0. (Of course, as always you are able to install into any folder name you like; we’d prefer it not be a misleading name.)

fyi: (internal) The Windows GUI programs now run off of a 3.1 registry key. What you will notice is that your MRU list will start out empty. You should see no other effects.

- Install on Windows
 - The install first uninstalls FolderMonitor and QueueMonitor. Since those facilities rely on DLLs that can be updated by a main DocOrigin install, an uninstall of DocOrigin implies the need to uninstall FolderMonitor and QueueMonitor.

- The install creates folders \$R/DO/Library, \$U/Library, and \$U/Output.
- The default Start Menu group is DocOrigin (not DocOrigin3.0)
- Fragments
 - See <http://www.docorigin.com/doc/#Fragments>.
 - Design now supports “fragments”. You can define fragment libraries and either link or embed fragments from those libraries into your form designs.
 - Design will “auto resolve” linked in fragments so that you have all the latest changes each time a form design is opened.
 - Merge, will optionally (you must specify –fragmentAutoresolve) reach out to your fragment libraries to bring in any later versions of fragments that were linked into the form designs. If you use that option, use caution and have a good QA process before updating production fragment libraries.
- Auto Email
 - See <http://www.docorigin.com/doc/#AutoEmail>.
 - A fragment that is included in the delivered Default-Fragments file is a page named _email_. The fragment can be embedded in your form design as a non-printing page. You can use it at Design time to fill out all the information about an email: i.e. From, To, Cc, Bcc, Subject, Attachments, and Body. Without any script an email will be sent based on the declarative definition. The email body is an rtf text label that is automatically converted to HTML suitable for email clients. The email will be sent whenever the output document is closed, be that at end-of-document or end-of-job (the timing depends on the CombinedDocuments setting).
- Zebra Label Printer support
 - With this release, DocOrigin provides native Zebra Label Printer support using the ZPL language directly. [With appropriate Windows drivers you have always been able to produce output for Zebra label printers.]
 - This includes support of Zebra printer generated (as opposed to externally generated) barcodes. See <http://www.docorigin.com/doc/#ZebraBarcodes>.
- Extended GS1 barcode support
 - With this release, data provided for GS1 barcodes that uses the standard parenthesized Application Identifier notation, e.g. (10), will be automatically interpreted so as to provide the correct function codes and also the correct human readable text. No need for special sequences such as “>8”.
- More consistent file defaults and overrides
 - The DO/Bin folder had a number of files which did not follow the normal convention of being prefixed with Default- and thence of being able to be overridden in the normal way with a file in the \$O (\$U/Overrides) folder. The following files now follow the standard convention:
 - Default-DOpciSymbolsets.ss
 - Default-DOPDFScript.js
 - Default-DOHtmlHeader.htm
 - Default-DOHtmlHeader-tab.htm
 - Default-DOHtmlFooter.htm
 - Default-DOHtmlFooter-tab.htm
 - Default-DOHtmlTemplate.htm
 - Default-PDFmetadata.xml
 - Default-PDFmetadata-ua.xml
 - Default-DocOriginFilterProcessor.wjsinc

- Default-ColorSpace.icc
 - In the unlikely case that you have been making direct reference to the previous names (without the Default- prefix) such references will have to be corrected.
- Merge
 - Fixed an issue when dealing with documents that used a large number of different glyphs.
 - Fixed an issue with handling the decimal character specified in `_system.setDecimal()`.
 - Fixed an issue where a character that occurred in only picture clauses was not added to the dynamically constructed font subset.
 - Output files which, likely due to some failure to open, were directed to DO/Bin are now directed to \$U/Output.
 - For HTML input forms, fields marked readonly were not being submitted. Corrected.
 - Fixed an HTML input issue with handling the AM/PM time option
 - Fix for comparing output file names when some had a prt:: prefix and some didn't.
 - Use the demf:: prefix to have Windows configurations generate "DocOrigin Enhanced Metafile" output. Use the file:: prefix to capture the output of some Windows OS drivers directly. Not all Windows OS drivers support this option. The file:: prefix when used with Windows output configurations is typically used for only debugging purposes.
 - (for debugging) With PDF output, a `-showNames colorName, offsetInInches` option will write each pane name overtop of its display. It *might* make a mess and/or it might make what is coming out more easily understood from a dev/debug point of view, especially for support people who are unfamiliar with the form design.
- Scripting
 - Support has been provided for script-based reading of XML files using the Xerces library for the underlying parsing. See <http://www.docorigin.com/doc/#XmlInput>.
 - Support `_inlineToRtf` to convert an Adobe Central (JetForm) inline string to rtf format.
- Design
 - Fixed an issue with injecting newlines at the start of a text label that used rtf.
 - Ctrl + mouse scroll wheel can now be used to zoom in and out.
 - HTML input object tooltips were not being properly reported in the input object dialog.
 - Added Format-Align to Grid to place the selected objects on the defined grid boundaries.
 - Entering 4 hex "digits" and then pressing ALT-X causes that Unicode character to be entered.
 - Design's Find dialog defaults to the mode of looking for text in script.