MINISOFT's eFORMz

RELEASE NOTES

Build #	Release Date	Enhancements / Modifications
2022.2	**07/05/22**	*Release 2022.2 – eFORMz* **Zebra Printer Language (ZPL) Parsing/Printing Enhancements:** ➢ ZPL Reverse Video – Print highlighted sections, inverting background and text color values and successfully printing them on ZPL printers. ➢ ZPL Parser: Parse QR Codes from ZPL input. ➢ ZPL Outputter: Output QR codes to ZPL printers. **Output Enhancements:** ➢ Datamax Programming Language (DPL) Outputter – Output with non-DPL fonts and print Code128 barcodes to Datamax printers. ➢ SATO Barcode Printer Language (SBPL) Outputter – Output QR codes to SBPL printers.
2022.1	**01/03/22**	*Release 2022.1 – eFORMz* **Integration Enhancements:** ➢ Add – **Accept-Encoding gzip to Web Service** improves data compression, streamlining data retrieval. ➢ Add – **Odometer** is a persistent number that increases, accessible as a declared constant, which is particularly useful in retrieving tokens. The Persist type lasts between restarts of the service. Normal (ODOMETER_NAME_B) resets to start. The UUID type is always unique. <eFORMzConfiguration> <Constant Name="ODOMETER_NAME_A" InUI="true" Type="Odometer" Length="5" Persist="odometer_a.dat" /> <Constant Name="ODOMETER_NAME_B" InUI="true" Type="Odometer" Length="5" /> <Constant Name="ODOMETER_NAME_C" InUI="true" Type="uuid" /> </eFORMzConfiguration> ➢ Add – **Modbus** integration facilitates communication with Modbus/TCP. eFORMz integrates with a number of material handling equipment (MHE) systems, communicating directly with the most common automation protocols and languages, such as Modbus/TCP, CIP and EtherNet/IP. ➢ Add – **HTML to Image** converts HTML to an image. ➢ Add – **Handle XML attributes converted to JSON** improves handling of data in mixed XML/JSON environments. XML makes a distinction between elements and attributes, while JSON doesn't. While parsing data from an XML node, if eFORMz sees the @ sign (XML attribute) but no data, it looks to see if there's an element. ➢ Add – The System Variable **Project Path**, set in Composer, contains the directory path of the project being called from outside. It doesn't contain any sub-projects called from the main project.
05	**10/14/20**	*Release 11.03 – eFORMz* **eFORMz API Enhancements:** ➢ Azure Active Directory Authentication support **Web Services Updates:** ➢ Add – Web Service PATCH verb ➢ Add – POST Service in JSON ➢ Add – TrustFromURL (automatic server certificate validation) **SQL Updates:** ➢ Add – Allow Constant or Variable statement on SQL Update ➢ Add – Return Row Count on SQL Update **Containerized Application Support:** ➢ Add – License Identification for Docker (specific ID saying eFORMz is running under Docker) **Ship/FX Connect:** ➢ Add – Ship/FX Connect is a web UI that allows users to configure scales and add printers
04	**07/07/20**	*Release 11.03 – eFORMz*

		Output: ➢ Add - WS output from a global variable of the project. Controlled by "source" parameter ➢ Add - PCL Version 4 in Color PCL Outputter ➢ Add - ZPL Output UTF-8 ➢ Add - eFORMzPrinter - Toolkit GUI changes to support backup output for JMS, Socket, and WS output **activeFORMz/Applications:** ➢ Add - UserProperty specifications added to Authentication specification, delivers named properties from the authenticator to the activeFORMz application or the called web service project ➢ Add - Ability to output to ShipFXConnect printer
03	**02/24/20**	*Release 11.03 – eFORMz* **Miscellaneous Changes:** ➢ Add - RFIDLock to ZPL ➢ Add - Output to MQ and Socket via printer URL ➢ Fix - Use default SSL parameters for HTTPS service
02	**12/13/19**	*Release 11.03 – eFORMz* **activeFORMz Changes:** ➢ Global authentication specification for activeFORMz apps in AuthenticationCfg.xml was added. This is used when the app's XML file does not contain an <Authentication> specification. There's also a new parameter "IdTagName" in <Authentication> tag. This overrides the name "AuthenticationId" as the name of the QMVariable that has the authentication Id that is passed to an activeFORMz application. In addition, <Permission> was added to the <User> tag in XML credentials file. Finally, session tokens are now kept in memory if the parameters "Database" or "SessionTable" are not defined.
01	**11/18/19**	*Release 11.03 – eFORMz* **Miscellaneous Changes:** ➢ Add - QMComponentFiles Disposition Handler to other Queue types ➢ Add - Web Service Client timeouts ➢ Add - DPL Parser/Outputter (including an option for images) ➢ Add - PNG File Output Option for page 1 ➢ Fix - ZPL Parser of Code128 data
00	**09/19/19**	*Release 11.03 – eFORMz* **Parser Changes:** ➢ Add - More Monarch Parser ➢ Add - ZPL Parser options for Code128Trim and PDF417HScaling ➢ Add - ZPL Parser justification for FT, FO, and FW **Procedure Action Changes:** ➢ Add - "DELETE" verb for Web Service ➢ Add - Lakh and Crore to Numeric Format ➢ Add - ISO8601 to Date Format **IBMi (iSeries/AS400) Data Queues:** As of version 11.02, IBM iSeries Data Queues (DTAQ) may be accessed with eFORMz. Users can define a new Queue and access either a local or remote DTAQ using any operating system supported by eFORMz. A project can write to a Local or Remote DTAQ. You can used fixed locations or tags to identify the data you are passing. ➢ Add - Wake Queue (local or remote iSeries) on DTAQ message ➢ Add - Write to Keyed DTAQ ➢ Add - DTAQ Test **Project and Form Variables:** ➢ Add - AuthenticationId QM Variable ➢ Add - datafiletype QM variable

		Output Options: ➢ Add - PCL4 Option (Device > Printer Options > PCL Version 4) ➢ Add - Datamatrix optimization flag ➢ Add - Datamatrix size configurable ➢ Add - Allow IPL native fonts ➢ Add - ZPLII Generated File Output Options ➢ Add - ZPL Outputter Cut Option (On Last Page) **Logging:** ➢ Add - log AS400 toolkit messages **MQ Broker:** ➢ Add - MQBroker ➢ Director Pool, JMS Queue Monitor, Read/Write JMS Queues **Director Queues:** ➢ Add SSH Connection caching ➢ Fix - iSeries File Age and Size Selectors **HTML/JSON Handling:** ➢ Update support of CSS for HTML input ➢ JSON to XML preprocessor **Miscellaneous Changes:** ➢ Add - Support for Amazon AWS Connection Options ➢ Add - Option to Hash or Mcrypt with SHA ➢ Add - Auto load eFORMzCfg_* files from settings/ ➢ Add - Scroll Panel for PDF Javascript ➢ Add - Direct to socket output using CUPS syntax "socket://hostname:port" ➢ Changes to eFORMzPrinter.jar and support in Toolkit DebugLog.txt file rolls 10 times DebugLog.txt file limit can be configured in PrintServices.xml (default is 10MB) Messages written to DebugLog.txt adhere to “Level” attribute PageWidth and PageHeight exported to .efd file ➢ Add - Test Data "Use Variable Name" option ➢ Add - SQLLoad Return Row Count option ➢ Add - Component type selection for load from variable
00	**08/22/18**	*Release 11.02 – eFORMz* **New:** ➢ New CreateJSON procedure. Converting XML to JSON can be imprecise, especially dealing with arrays, so this was created for use when interacting with web services that use JSON. Converting JSON to XML works well for extracting data, so no additional procedure for extracting from JSON was added. ➢ New option to convert images to B/W when reading them into a project. This will speed things up, in that color images won’t have to be converted every time they are outputted to a B/W destination. There is also a dither option for the conversion. This gives a smoother B/W image, but it will be larger. The automatic conversion of a color image to B/W will still work the same (no dither, 600dpi). If a site wants to change either or both, there are 2 new eFORMzCfg constants: “MinisoftVar_ConvertColorToBWDither" and “MinisoftVar_ConvertColorToBWDPI". ➢ New iSeries Data Queue Monitor and iSeries Data Queue Write Action. You may now define a new Queue and access either a local or remote DTAQ. Local access would be from a copy of eFORMz running on an iSeries host. Remote access can be from any server type running eFORMz (Windows, Linux, iSeries, etc.) A project can now write to a Local or Remote DTAQ. ➢ New Alert Spin Control variables (MinisoftVar_AlertLimit and MinisoftVar_AlertNap). For each alert thrown, wait a configurable (MinisoftVar_AlertNap) time before continuing. If an excess number of alerts (MinisoftVar_AlertLimit) is encountered, the queue will stop processing the current set of files and enter a ‘stopped’ state. ➢ New Configurable Director Java Management Extensions (JMX) Port for use with firewalled systems when accessing a running instance of the eFORMz Director service from either the Director Toolkit or Director Management application. **Modifications:** ➢ Modified authentication for eFORMz Apps so that login is configurable. (As of version 11.02.02) ➢ Modified MO:DCA Parser options, which parses IBM MO:DCA files, to include support for bitmapped fonts, custom

		code pages and medium overlays. **Fixes:** ➢ Images loaded from a file can now be moved with a mouse drag. ➢ Handling of rotated text blocks with the ZPL Parser fixed. (As of version 11.02.02)
00	**03/21/18**	*Release 11.01 Supplemental – eFORMz* **New:** ➢ New form layouts feature. When enabled, this feature creates custom layout lines in the eFORMz Composer, making it easier to quickly create highly specialized forms and labels. ➢ Continued additions to our 3rd party retail template library to support order fulfillment requirements. ➢ NetSuite compatibility improvements, including support for token-based authentication, in keeping with NetSuite's current recommendations and future integration standard. ➢ Support for SSH key based authentication, providing more robust security in Unix environments. ➢ Support for caching Microsoft SharePoint's "single sign on" (SSO) token. ➢ Conditionally print PDF attachments at the end of a print job, such as terms and conditions, warranties, Prop 65 warnings and other forms. ➢ Support for PDF/A-3, which allows users to embed any file format within a PDF/A file. eFORMz also supports ZUGFeRD, based on PDF/A 3, which is the preferred format for electronic invoices in Germany and a standard within the European Union. ➢ New PDF parser options have been added to enhance the process of capturing data from PDFs. ➢ Support for the Printronix PGL print language. eFORMz is able to take a FedEx/UPS/USPS shipping label formatted for ZPL printing and convert it into native PGL (Printronix language) and then send that shipping label to be printed on the Printronix printer. ➢ PDF417 barcode enhancements to conform to FedEx specifications. ➢ Support for Java 10. Java 1.8 is still recommended at the time of this release. eFORMz can run on earlier versions of Java that Oracle no longer supports, but it's not recommended. ➢ New logging improvements for easier issue resolution. ➢ No Action Procedure: By selecting "No action", the procedure is created with no contents. This is useful for creating a Pre-Condition or Post-Condition procedure that will feature several actions and functions inside of it. ➢ Write to Log is a procedure which builds a complex string for logging. ➢ XML File Load is a procedure fills one or more variables based on XML elements/attributes in a file either with a constant or variable name. ➢ The Execute a Project procedure calls another project and outputs that project to a file, to a printer or with eDIRECT. ➢ Load Variable from Project Output is a procedure which is primarily used to retrieve information from another project. ➢ Execute Project Procedures works in conjunction with the "For Parameter" variable type to enable specific variables to be passed between projects. This procedure is particularly useful for creating multiple third-party dropship packing lists. ➢ The Choose One Of function can be used to choose a specific instance from an array by index or by matching against a parallel occurring variable. This function is particularly useful for extracting an item from an array of values. ➢ The Rename to Unique advanced function works by appending an underscore and the timestamp to the end of the filename, before the file extension, to create a unique filename. ➢ Split String is an advanced function used for splitting a string into its substrings based on a given delimiter/regular expression. It returns an array of strings after splitting an input string based on the delimiting regular expression. **Modifications:** ➢ Modified box elements within the eFORMz Composer so that they can be rotated, facilitating easier design of dynamic forms with the Document Template. ➢ Modified "nodecopy" XML data extraction mode to allow matching on attributes. This handles nodes with names containing namespaces (by ignoring the namespaces). The XML node and subnodes can be retrieved if searching by attribute. **Fixes:** ➢ Rendering of EPL2 Parser graphics fixed. ➢ ZPL output of 2D barcode position issue resolved. ➢ Removed CR/LF from text after encryption and BASE64 encoding, to prevent problems when decrypting.
00	**12/02/16**	*Release 11.01 – eFORMz* **New:** ➢ SATO print throughput improvement. ➢ Added PDF Parser option which allows for the inclusion of annotations in PDF data.

		➢ Added MOD (Integer Modulus) and DIV (Integer Divide) to Calculation Procedure. ➢ New Timed Queue for processing data on a timed interval, ideal for data which is passed through a database call or a web service call. ➢ Added Number to Dollars Function which converts decimal amount to the textual amount. There are two formats. Decimal Cents currency type: written dollar amount + "dollars" + "and" + decimal cent amount. 2.22 would become "two dollars and twenty two cents." Fractional Dollars currency type: written dollar amount + "and" + fractional cent amount + "dollars." 2.22 would become "two and 22/100 dollars." ➢ New Create XML Procedure which uses XML project tree nodes to create XML in a string. It's used to create XML data that can be passed between projects, which is useful for Calling Sub-Projects or Returning XML from a Project. It's also like Record Element in that created XML data can be sent to a file. ➢ Support for handling non-default install location on UNIX. ➢ Read and write more AS400 OUTQ parameters. ➢ Allow XML Namespaces, uniquely named elements and attributes in XML data, to be differentiated in the Page Properties. **Modifications:** ➢ Move optional input queue parameters to an "Advanced Options" tab. ➢ Group input queues by type with separator. ➢ Confirmation dialog on delete row (Translation Table Editor). ➢ Confirmation dialog on exit without save (Translation Table Editor). ➢ Wider combo-box for Calculation Procedure. ➢ Removed conditional statements option from Preprocessors menu. ➢ "Blank" option is now the default form selection in Add Form dialog. ➢ Text to XML Editor added to Preprocessor dialog. ➢ Page number is appended to the print job name. **Fixes:** ➢ Unicode ellipsis for VariableFrame. ➢ Call a test database through a remote connection when it's available. ➢ Fix to image offset differences between PDFs in the Composer and when they're printed. ➢ Reset display after Run > Process w/ eDirect. ➢ Report a missing project file or data file in the eFORMz Composer.
00	**09/15/16**	*Release 11.00 – eFORMz* **New:** ➢ Green Bar Modulus has been added to Document Template. When enabled, it gives a form the classic "green bar" or "music-ruled" look. ➢ Modifiable tool tip hints are available for Input Fields. ➢ Make Director Toolkit Queues extensible. ➢ Create copies of existing Document Template layouts. ➢ Signature Boxes. This feature refers to both Signature Capture and Digital Signature. Signature Capture involves capturing signatures from Android and iOS devices and adding them to a form. Digital Signature creates PDF file output, such as invoices and purchase orders to send as email attachments, with digital signatures, using each eFORMz customer's certificate. These are two different mechanisms, both handled with a single Input Field type. The eFORMz input element called Signature will behave differently for different output types. When sent to 'as activeFORMz' the Signature Capture mechanism will be used with a flag determining if the touchscreen or Topaz methods are used. When the same project produces a PDF file, the PDF file can be flagged to accept the Digital Signature certificate file. **Modifications:** ➢ NetPort Listener moved from eSubmit to Director Toolkit Queues. ➢ SMTP Monitor moved from eDirectPlus service to Director Toolkit Queues. **Fixes:** ➢ WebServer - fixed path traversal and increased default session limit. ➢ Fix to PaginatedOutputter.setData() and DocumentTemplate.m_Copies.
00	**03/01/16**	*Release 10.07 – eFORMz* **New:** ➢ Support for Code 93 1D Bar Codes. ➢ Support for additional PC/Color PCL setup strings. ➢ Support for Printronix dialect of ZPL II output. ➢ Support for Microsoft SharePoint Online.

		➢ Support for IFD (Fiserv). ➢ NCR2PST POS printer (output). ➢ Double click for context menu (composer). ➢ Numerous changes to activeFORMz and the Web Server to support file uploading in activeFORMz applications and to support the full Unicode character set in input fields. ➢ Convert IFD to EFZ (Fiserv). ➢ Add configurable printer preprocessors. This would be for differences in physical models (resolution 300dpi Zebra) and saved settings (defaults such as font size). CT LL CC volatile and non-volatile. ➢ Sort printers by Printer Name on Printer tab. ➢ Added a search field when adding a printer along with the drop-down in the Select Printer field. ➢ Added a search field on the Spoolfiles tab for Print Queue. ➢ Added drag and-drop-features for boxes in document template. ➢ Added a search field on the Director tab to find a queue you need to monitor instead of hitting the over arrows. ➢ New heading added to the AS400 Toolkit > Spoolfiles tab under Upload indicating “File Upload” to lesson confusion. ➢ New “Table footer” and “Extend to end of page” options for table rows. ➢ A new project can be created from a pdf file. This is intended for use by FISERVE customers migrating to eFORMz. The form backgrounds come from the pdf pages. Variables and rules are created from the text fill-in fields to work with a Jetform data file parser preprocessor to use the data from Spectrum data files. ➢ Support for parser options. Presently only 2 zplii options are added but the structure for configuration and execution of additional options are in place. The parser names are in the enum “Parser”. ➢ AS400 Login - show install directory path. ➢ Add field for reset counters to state parameters (Text2xml). ➢ Support Z64 image compression on ZPL output. ➢ Code128 data optimization to ZPLII Output. ➢ Total number of pages (split groups for load balancing). ➢ Add "default" (from Printers.xml) to list of output formats in eDirect. ➢ Loading of KeyedConstants from a database. ➢ Additional options for Load Variable from a Variable action. ➢ Additional options for SQL ResultSet Preprocessor. ➢ Additional options for Rules and Boxes for page selection. ➢ Allow Constant or Variable for PDF page image (MetaPack). **Modifications:** ➢ XML match and extract on attribute values in addition to contents (Uses @ sign). ➢ Handle UTF-16 encoded XML data on Web Call return. ➢ Change to handling return columns in SQLLookup. ➢ Misc. changes to PDF and Image input. ➢ Support new Ecometry BarCode enhancement (updated *Fontspecs.xml* file). ➢ The “Justified” setting in a Paragraph only worked for HTML output. Now it works for all output, except those with low resolution, i.e. label printers. ➢ Writing to queue by web service and alert handler now synchronized by queue to avoid overridden files. ➢ IFD parser adjustments. ➢ Logic for setting the default bar width for code 128 barcode did not allow barcodes with a bar width of 1 dot. ➢ The ‘Output from Project’ and ‘Document Output from Project’ have been changed to allow 1 to 1 page mapping between the primary component and secondary components. ➢ You can now configure a cell to allow its content to span more than one cell. ➢ Preprocessors moving to Project context menu. ➢ Box page selection changes. ➢ Configurable number of recent files. ➢ Cache PDF page parsing while a project is active. **Fixes:** ➢ activeFORMz - System properties for data file name not set correctly. ➢ activeFORMz - When using basic HTTP authentication, the authentication results were not passed to the projects. ➢ The calculation for text width when right justifying content within a paragraph was not using kern offsets, which sometimes caused the content to be not quite right justified. ➢ The logic for creating valid xml names, which is used by the IFD parser, SQL ResultSet preprocessor, EMail parser, and JetForm data file parser did not create valid names if the input string started with a digit. ➢ Fix ZPL "white boxes". ➢ Fix Input fields in Document Template did not output to PDF. ➢ Numerous overlay fixes. ➢ Some PDF files would not resize.
04	**03/23/15**	*Release 10.05 – eFORMz*

		New: ➢ New system variable for the value “true”. ➢ New unary conditions: “Is a number” and “Names a file that exists”. ➢ New additional file selector “iSeries Matching Spooled Files Selector”. It is used to match spooled files in a iSeries queue by name, user data, and user def data to create a composite data file. ➢ Save test XML data from Text to XML Editor. ➢ “Database” and “Archives” tabs added to the Toolkit to enable editing these configurations. ➢ Added EFZ Roll Count to system properties which permits automated backup of projects based on counter. ➢ “Del" key can be used to remove project tree nodes. ➢ “Choose One Of” function can be used to choose a specific occurrence from an occurring variable by index or by matching against a parallel occurring variable. ➢ “Load Variable from XML Node” procedure action. Can be used to load a variable from xml in another variable, using the same techniques as loading a variable from an xml data file. This is useful when needing information from xml data returned from a database query or web service call. ➢ Conditional option "Matches". Uses the traditional file system wildcard characters "?" and "*" to compare two strings. ➢ New options for the “Time Interval Format” procedure. ➢ Visual editing of boxes and table cells. ➢ Option to not use the default extension for Generated File Output in eDIRECT. **Modifications:** ➢ Entry for "iSeries Matching Spooled Files" additional file selector added to eFORMzCfg.xml. ➢ The input data format can be selected on the "File Selection" dialog for directory queues. The "Auto-detect" selection is the default and all existing configurations will default to this. Auto-detect, which is the way it has always operated, determines the input data format by using first the file extension and then by peeking at the first few bytes of the file. ➢ Improve speed of handling large graphics elements in ZPL. ➢ The save confirmation dialog that is used when pressing the close button now has a “Cancel” option. This applies to the Composer and Toolkit. ➢ Additional extensions added to data file dialogs. ➢ External functions on a separate “Add Advanced Function” menu. ➢ Logging setting in System Properties dialog put on their own tab. ➢ Settings for which windows to display on “Window|Reset” are in System Properties dialog. ➢ Configuration to output text using SBPL fonts rather than text as an image. ➢ Clicking in a box or table cell will show the box or cell with adjusting and editing tabs. If the box is absolute positioned, it can be moved by dragging the moving tab. Box height and width can be adjusted by dragging the height and width tabs. Row height can be adjusted by dragging the height tab. Cell width can be adjusted by dragging the width tab. The Box or Cell can be edited by right mouse clicking on the edit tab. If boxes/tables are nested within each other the lowest level on is selected by the click. ➢ Removed activation.jar and http.jar from install as these are now a part of the Java runtime (rt.jar) as of Java 1.6. ➢ Updated the 32-bit release of Java, which accompanies the product, from version 1.7.0_51 to 1.8.0.31. **Fixes:** ➢ Fix JRE 8 PNG file creation. ➢ Fix issues with “Choose One Of” dialog. ➢ Fix for "iSeries Matching Spooled Files" additional file selector to trim USER DATA before checking if it is empty. ➢ Fix document template pagination of header or footer issue. When a row was set as a Page Header and was subordinate to a row that allowed spanning of pages, extra lines were added to the output. ➢ Fix to ZPL parsing. ➢ Multiple images loaded from files and output to html overwrote each other. The result was the last image was used for all. ➢ Reverse printing (portrait/landscape orientation) in Image format now printing properly. ➢ Fix for right or center justification with a zero width. Previously the captured value was padded with spaces and has since been corrected. As a result an adjustment to the justification may need to be made to older projects.
01	**07/30/14**	*Release 10.02 – eFORMz* **New:** ➢ Page qualifications for all rules. You can choose which page of a group to output the rules. The default is “Every page”. ➢ ZPL Fonts A,B,C,D,F, and G are now emulated in eFORMz. This means that when reading from a zpl data file those fonts will be faithfully reproduced on any output device. ➢ “Choose One Of” function. This lets you pick one occurrence of a variable (the choices in variable) either by index (zero based) or by matching a value in another variable that is parallel to the choices variable. ➢ In Director configuration files, you can have many queues that access remote directories or remote iSeries queues all using the same password. The password only needs to be configured in one of the queue and left blank in all the

		others. Queues with blank passwords will search for a queue with a matching host, port (remote directory only), and user with a non-blank password and use it as reference. ➢ Support for selecting spoolfiles with a status of "SAV" on the iSeries. ➢ Added "Base64 Encode" function. ➢ Added command line license file start. **Modifications:** ➢ Changes to EPL2 barcode reader and SharepointProvider. ➢ Modified 'onDemand Print' utility to perform a call to the print path directory from within the 'eFORMzPrint.ini' startup not requiring it to be a part of the actual filename. **Fixes:** ➢ Code 128 barcodes were being optimized in 10.02.00 and was causing truncation to many of the barcodes. 10.02.01 has an option to optimize, with the default being no. ➢ Fixed the reverse printing issue which appeared in release 10.02.00. ➢ Some line/box positioning problems with EPL2 input was addressed. ➢ Page numbering issues were addressed.
00	**07/09/14**	*Release 10.02 – eFORMz* **New:** ➢ New project property "Media" designed to place logical output page(s) on a physical page. Uses would be to arrange logical pages (n-up) on a physical page or to rotate a logical page on a physical page. When "Media" is set at "Default" the physical page is the same as the logical. ➢ The "Option" entry under "PrinterOptions" in eFORMzCfg.xml has a new attribute named "DefaultValue" to specify the default for an option. If a "DefaultValue" is not specified then the hard code default is used, which for some options is nothing. ➢ Added "Insert a string" as a new project preprocessor. Permits the insertion of a string starting a specific location. **Modifications:** ➢ Log Roll Count – limits the number of retained log files. Customers have been known to keep too many (out of disc space) or not enough (cannot diagnose a problem after restarting the service) log files. Works in service controlled applications to set a maximum number of log files of the same name to keep. Cannot be used with timestamp (%s). Defaults to previous behavior, this option will become active only when set from one of the logging configuration screens and only applies to the application for which it is enabled. Should be used with either the size limit, time limit or both. ➢ Replaced existing java service executables and configuration files (jsl / jsl_64) with updated versions. ➢ Version numbers were updated for all executables. ➢ New parameters for getting the value of an XML node conditionally. "Match Filter" is the child node to match against. "Match Value" is a wildcard to match against. When a match is found, the corresponding node value from "Node Filter" is used. This will work with any "Transfer Method" except "Value of child node of parent node", in which case they are ignored. ➢ The "Print Output" dialog has been changed to make it smaller vertically. ➢ The layout of the Director panel in the Toolkit has been modified. ➢ The "Stop" button in the Director panel is now disabled if the Director was started under the Service Manager. ➢ The Position copy/paste menu has been added to the Box Properties dialog. ➢ The <esc>A<esc>Z and the end of SBPL output has been removed. ➢ Logic change where the open for a database is delayed until the first use. ➢ Added 'smart logic' to automatically select the proper Code 128 type (B or C) depending on the content of the data. Note: existing barcodes will scan with the same value, however, may be reduced in length. **Fixes:** ➢ 8-bit characters were not decoded correctly from ZPLII and EPL data files. To fix this the input character set for ZPLII input is hardcoded to PC-850 and the input character set for EPL input is hard-coded to CP437. ➢ Error exits for Active eFormz applications has been refined. ➢ Line positioning and text rotations in EPL parser needed adjustments.
03	**04/22/14**	*Release 10.01 – eFORMz* **Modifications:** ➢ Text substitution in HTML template files has been extended to include text before and after the <BODY></BODY> tags. ➢ A new option was added to the iSeries file selector to select HELD spoolfiles. ➢ Error message expanded when 10.01.03 Toolkit attempts to connect to pre-10.01.01 Director. ➢ The reference to "IMPACTB.TTF" in FontSpecs.xml has been changed to "IMPACT.TTF"

		Fixes: ➢ Addressed numerous AFPDS barcode problems. ➢ AFPDS files not constructed correctly did not process. Now the errors are ignored and logged. ➢ SCS file parsing performance problem fixed.
02	**04/09/14**	*Release 10.01 – eFORMz* **Modifications:** ➢ Entries in the file and directory dialog boxes for host (iSeries and Unix) dialogs are now sorted. **Fixes:** ➢ Color images that were rotated 180 or 270 degrees did not output correctly to PDF. ➢ Modified 'jsl_ServiceManager_64.ini', uncomment reference to "jvmtype=server".
01	**04/07/14**	*Release 10.01 – eFORMz* **New:** ➢ The previous Toolkits used for host installs, printer assignments/configurations and the monitoring of print files from Windows, iSeries or Unix/Linux environments have been replaced by the Director Toolkits. ➢ Native support for Epson's ESC/POS (Epson Standard Code / Point of Sale) devices. ➢ BCC list and frequency is now configurable in <Response Tracker> tag in eFORMzCFG.xml ➢ Variable passing between Active Forms projects. ➢ File selection statement now includes an option to select input files based on their file SIZE in bytes. ➢ Added a new substitution delimiter "!!!!!" to insert data into a html template when generating HTML output. An example would be text from the content of a Paragraph document object with the ID of "customername" will replace "!!!!customername!!!!!" in the html template. ➢ Added http proxy configurations to SSLConfigure App that are used by eFORMz web service calls. ➢ Added a new port entry command for eSubmit. ➢ Added "Base64 Decode" function. **Modifications:** ➢ Ongoing support for Manhattan's WMI 'multi-byte' characters w/enhanced translation tables. ➢ Updated the 32-bit release of Java, which accompanies the product, from version 1.7.0_45 to 1.7.0.51. ➢ Removed old Arial Unicode font 'ARIALUNI.TTF' replacing it with a newer copy 'Arial Unicode.ttf'. ➢ Changed default memory allocation for Director's 'StartServicesCfg' to 1024Mb from 1536Mb in support of 32bit Windows OS running the Director Toolkit locally. ➢ Reference to Printers.xml file on host servers will take on the location of the install. If there is no entry for that host then it will use "/minisoft" as the parent directory. ➢ Removed several java start-up service configuration files (32 & 64 bit versions) in support of referencing only a single startup service (Service Manager). **Fixes:** ➢ Problem using eFORMz document files (.efd) as input when the input document had blank pages. ➢ ZPLII output originally generated output as 200dpi and should have been 203dpi. Corrected. ➢ Correct a problem associated with copying an eDIRECT node. ➢ Problem with copying eDIRECT outputs. ➢ Output from deactivated forms in eDIRECT Plus still appeared in the output. ➢ Issue with processing null 'prepeel' ZPL code.
00	**01/09/14**	***Release 10.00 - eFORMz*** **New:** ➢ Support for Manhattan's WMI 'multi-byte' characters w/enhanced translation table. ➢ Support for Zebra's EPL (Eltron Programming Language) **Modifications:** ➢ Enhanced support for SATO's GY412 2ST printer. Includes 180 degree printing and QR barcodes. ➢ Modified the AS400 submit job parameter statement which includes reference to Java 6 **Fixes:** ➢ SATO printer - SBPL code 128 barcode fix.
05	**11/08/13**	*Release 9.04 – eFORMz* **New:** ➢ XML files in the "translate" subdirectory of the default directory will be automatically added as Translation Providers using the name of the file as the provider name.

		➢ Configurations added to export <KeyedConstant> constant to a database table which is useful when attempting to synchronize eFORMzCfg.xml configuration data with external software. An import facility is planned. ➢ A file or pipe to another process can be configured as a device for a printer. This allows one to output all printer options. The normal "Output to a File" does not output printer options. *Usage:* - *Output to a file use "> filename:* - *Output to a pipe to another process use "| processcommandline"* **Modifications:** ➢ Added option to use a variable as the label for a pushbutton in document content. ➢ Centered the dialog screens when in the Composer and using multi-monitor systems. ➢ Updated the 32-bit release of Java, which accompanies the product, from version 1.7.0_17 to 1.7.0.45. ➢ Updated all jsl_xxxx.ini files with the 'PrintServiceFixer7.jar' & 'mail.jar' references. ➢ "Output from Project" rule and Document Output from Project" component will now take variables as additional parameter for input to the called project. The parameters are accessed in the called project named "Parameters/<variablename" off the root node. Note that if the variable's name contains non-legal XML element name characters, the illegal characters will be replaced with an underscore unless it is the first character of the name, in which case it will be replaced with the character 'A'. Valid XML element name characters are: ○ Letters ○ Numbers ○ Underscore { _ } ○ Dash { - } ○ Period { . } **Fixes:** ➢ "Disable standard subdirectories" setting in the "Process w/eDIRECT PLUS" dialog did not work in the AS/400 Print Monitor. ➢ Setting "Descending" in the "Sort" tab of the Project Properties always reverted to "Ascending". ➢ MTA - SMTP Monitor fix for Exchange. ➢ Suppressed the lpar2 load error from the eFORMz log on AS400 installations. ➢ Changes and fonts added to render fonts not installed on the AS400, which was only a problem when trying to render characters in uninstalled fonts as images. Used frequently with Zebra and SATO printers, where normal resident fonts are not installed. This fix also includes a new fonts configuration file to name font files for Type1 fonts. ➢ "Output from Project" rule and "Document Output from Project" component did not work correctly if the called project contained a preprocessor. ➢ Includes CDF (composite data file) fix.
01	**10/08/13**	*Release 9.04 – eFORMz* **New:** ➢ "Reset" right mouse menu selection for Rules and Document Template nodes to reset font, foreground color, margins, padding, style id, and style class. The reset is applied to the node and all children recursively. ➢ Line and Box form constants. ➢ Added a new method to paginate XML files that are used to group tags together based upon the values of child items. ➢ A set of new options now exists in the Page properties dialog. ➢ Added a new application (SSLConfigureApp.exe) and configuration for SSL keystore and truststore files. More information pertaining to this new app can be found within the corresponding mini-manual. ➢ New "Keep spacing" option for positional variables. When checked it behaves as it has in the past where eFORMz inserts spaces in the variable value when characters on the same line are positioned by a cursor command other than spaces and there is empty space between them. When unchecked, no spaces are inserted into empty space. ➢ Tray assignments can be made for input and output printer trays. The tray specified in the project is the "Logical tray". In a device configuration for a printer, assignments can be set up to translate a "Logical tray" to a physical tray for that device. This works for PCL, color PCL and Postscript printers. ➢ A new "Parse Date" function to parse text representing a date/time into a timestamp (number of milliseconds since 1/1/1970. The "Date Format" filed specifies the format of the text. ➢ A new "Date Calculation" procedure to Add/Subtract a time interval (years, months, days, hours, minutes, seconds) to/from a timestamp. ➢ SQL Exceptions are logged at level 5 (in addition to being displayed in the Composer). ➢ Multiple sorts, in either Ascending or Descending order, can be performed on Variable input values. { Note: added to release notes on 4/21/14 } **Modifications:** ➢ Added log output filename for generated file and email output. ➢ Display the full filename for license file.

		➢ Removed excess menu items from Text2XML editor. ➢ Updated the release of the following Java components (PDFBox & fontbox) from version 1.2.1 to 1.8.2. In doing so code changes were required to account for differences in font sizes. ➢ Repositioned the cursor on the Notes pane of Project Properties dialog to the top instead of at the bottom. ➢ Web Service procedure now supports either "GET" or "POST" verb. It has also been changed to support any combination of URL encoded or MIME input and output. ➢ Increased maximum allocated memory to the execution of eFORMz running as a service in a Windows 64-bit environment from 1024Mb to 2048Mb. ➢ Updated the version release of the Port Monitor (monset) to 2.01. This version now permits optional filename and extension entries, supports execution over a remote desktop connection and new short-cuts have been added to add/delete the port. Removed Microsoft's Visual C++ runtime executables from DOC folder as no longer needed. ➢ Changed the order of fields on the Printer Page in the Director Management and Director Configure App. ➢ The Rules node can now allow multi-threading of the execution of the rules. If this is enabled, then the execution of a rule in a parallel thread can be enabled/disabled. Ideally this would be helpful with performance for load image actions and output from project actions. With normal rule actions, the overhead in creating/destroying threads could actually cause more delay. ➢ A comma has been added to the Secure Amount font. ➢ Reverting back to the old Toolkits as standard distribution for monitoring of print files from Windows, iSeries and Unix/Linux environments thereby replacing the 'Director'. The Director functionality will be incorporated into the new Toolkits. **Fixes:** ➢ Output to image files did not release the file when closing. Subsequent processes could not move/delete the file until the monitor was stopped. ➢ The pitch was used in the logic to determine if spaces needed to be inserted into data in a variable when the text being selected had a proportional font. The width of a space for the font is now used instead. ➢ Bottom margin of a Box (document template) was positioned above where it should be. This issue became apparent in release 9.03.00 and has since been fixed. ➢ If a row was set to span pages and it contained a table, the rows inside that table did not position correctly when the page break happened on the first row. ➢ Post-condition procedures were not working correctly with the form condition. ➢ SATO printer output fixes. ➢ 'NOT' on a condition that used "all" occurrences returned the opposite results. ➢ Thread safety fixes applied to SMTP Monitor. ➢ Support of imbedded overlay images within an IBM AFP file. ➢ Updated 'PrintServiceFixer7.jar' which caused previous problems with opening the Local Toolkit dialog.
00	**07/10/13**	*Release 9.03 – eFORMz* **New:** - License entry enabled for activeFORMz. - Support for the SATO (*SBPL – Sato Barcode Programming Language*) printers. - Support for "Composite Data File". This is a data file containing many separate components, of which each is a data file. The original purpose of this type of file was in support of creating collate output from Manhattan's WMI system. As of now CDF's can be built: • with the WMI Collate File Selector • from a mailbox file with the extension of ".cmbx" • manually in an XML file with the extension of ".cdf" There are new functions, procedures and eDIRECT Plus content for using components from a composite data file.The primary component field in the "Advanced" tab of the project properties defines which component has the data to drive the report. **Modifications:** - Options for table rows to span pages. - Paragraphs can be added to a Table. The result is to create a row for each line in the paragraph. - Project name is now in the title of the Project pane. - Right/Left Trim now includes the carriage-return character as white space to be trimmed. **Fixes:** - Printers.xml file created with the old Local Toolkit could not be read with the old Local Toolkit. - The daily interval for an input queue was using the hour as both the hour and minute when calculating the interval needed to sleep until the next day. - MBX (Microsoft's email extension file formatted files) stopped being read correctly in release 9.02.04. - The "NONE" choice for an attachment from a file did not use the correct MIME type.
04	**05/22/13**	*Release 9.02 – eFORMz*

		Fixes: - Performance issues with processing WMI files. - Host install to Unix/Linux environments caused all files to transfer to a single directory as subdirectories were ignored. This has been fixed.
03	**05/20/13**	*Release 9.02 – eFORMz* **New:** - Functions for URLEncode and URLDecode. Useful for encoding/decoding input and output parameters for web service calls. - Function for calculating the check digit for UPC-A, UPC-E, EAN8 and EAN13 barcode data. Necessary if text characters need to be placed under the barcode and the data does not have a check digit. - External files, outside of those generated by eFORMz, can now be included as attachments using the new 'File Content' dialog selection option within eDirect. The filename can be a hard-coded constant or a variable selection. - Install specification for iSeries and Unix now in Install.xml in com.minisoft.HostTools.AS400 and com.minisoft.HostTools.Unix respectively. These files will be retained in the eFORMz.jar and are not user modifiable. - Install to and from directories now saved in ClientCfg.xml. - New function "Set value from a keyed declared constant" - New procedure "Load Variable from a Keyed Declared Constant" - Procedures are now split into two categories (Pre/Post Conditions): "*Pre-condition*" procedures are executed before the form condition is evaluated. All procedures in current projects will become pre-condition procedures. "*Post-condition*" procedures are only executed if the form condition evaluates to true. **Modifications:** - UPC-A, UPC-E, EAN8 and EAN13 barcodes now output with descender bars and the start, center and end. - Unprintable characters in the host start services menus of the management apps are now stripped. - WMI Collate File Selector has been changed to support the new specs from Manhattan. - Message Contexts can define the lengths of the fields and define additional indexes. - Record elements can now be dragged. - Invert output when reverse portrait is selected for ZPL output. - Font handling changed for ZPL printers. If the output contains a font not resident in the printer eFORMz will write the text in memory as an image and send the image to the printer. If you are dealing with input that does not use ZPL fonts and you want to output ZPL fonts to the printer then you must make the changes to the user font spec file (FontSpec_User.xml), which will override FontSpecs.xml otherwise use Rules. **Fixes:** - iSeries print copies problem. - UPC-A, UPC-E, EAN8 and EAN13 barcodes output to ZPL printers did not work. - Dropping a document component node on one of its descendants was allowed and cause the Composer to hang. - "Filter" field for data node variables did not work. - Non-grouped eDirect output with a condition, when mixed with grouped eDirect output always output regardless of the condition. - Fix to the scaling and rotation of images output to ZPL devices.
00	**04/11/13**	*Release 9.01 – eFORMz* **New:** *Printer & Source Tray Pooling* Printer pooling permits the distribution of output across multiple printer devices. The devices do not need to be of the same make and/or model as is often the requirement for pooling. This feature can be especially useful in environments where devices sit idle. The load can be distributed based on percentages settings easily configured. Source tray pooling (PCL output only at this time) permits the selection of trays based on a range of output configured. The 'range' parameter in the source tray pooling configuration refers to the total number of trays. To include trays 2, 3, and 4 in the pool, set "Base tray" to 2 and the "Range" to 3. Printer pooling, printer options and source tray pooling settings are configurable from within the Director Management Application. - New "last" occurrence option in conditions. - Added new Printer, Database and Archive configuration pages in Director Configuration App.

		Modifications: - WMICollateFileSelector optimized for more efficient file selection. - Updated the release of Java, which accompanies the product, from version 1.7.0_10 to 1.7.0_17. **Fixes:** - Positioning of barcode in ZPL input position with the "FO" command - Positioning of stretched/compressed text in ZPL input - Outputting to .efd files when the output contained 2D barcodes caused an abort - Condition testing with "all" and "any" did not work in conditions on eDIRECT nodes. - Fixes for reading ZPL II files from client site.
05	**02/22/13**	***Release 9.00 – eFORMz*** **New:** *The Minisoft 'Director'* A new consolidated Toolkit creates Director configurations for any server and allows input from all supported sources on any server. It also includes conditional logic for selective project execution and configuration options to control when an input source is active. Output processes can also be selectively paused, reconfigured and resumed without affecting other output processes. Printer configurations can be dynamically modified to work around printer problems and logs can be viewed to quickly see processing progress. *Variable Types:* - 'For activeForms input' – a variable to be used with Document Template input fields. - 'For Queue Monitor variable' – a variable used to get Queue Monitor variables. *Preprocessors:* - 'Project' – ability to process a data file within a project where the output is passed to the next preprocessor or the main project in an efd (eFORMz document) format. - 'SQLResultSet' – the result set of a SQL statement is passed, in xml format, to the next preprocessor or the main project. Presently the datafile is irrelevant, however, in the future it could be designed to supply values for parameters in the SQL statement. *Functions:* - 'Set value from declared constant' – the value of the function comes from a declared constant from an eFORMzCfg.xml or eFORMzCfg_user.xml file. *Procedures:* - 'SQL Load' – load variable values from a SQL query. The repeat of the variables is set to the number of records in the result set return by the SQL statement. - 'Date Format' – date format convertor from timestamp in milliseconds (# milliseconds since 1/1/1970). * value returned by the Current time (Timestamp) system variable. - 'Time Interval Format' – time format convertor from time intervals in milliseconds. - 'Load Variable from a Declared Constant' – this loads a variable from a constant declared in an eFORMzCfg…xml file. The repeat of the variable will be set to the number of values in the declaration. - 'Load Variable from a Variable' – this loads a variable with the values of another variable. The repeat of the destination variable will be set to the number of values of the source variable. - 'Call a Web Service' – Call and retrieve data from a http accessible web service. The parameters are submitted with a POST request. The data returned from the web service is parsed for return values in the form "tag=value". the current value of the procedure is set to the return code of the request. - 'Call a Dynamic Service' – used to call custom code running under the Dynamic Service. - 'EndTransaction' – Used in conjunction with a new option on the SQL Update procedure to set AutoCommit to off. - 'Load from Project Output' – useful to get text or XML output from another project into a variable. *Rules:* - 'Output from a Project' – Used to get output separate project that uses an independent data file and include the output in the current project. A xml format file with a "cdf" extension can also be used to specify all the separate data files for a project that uses this procedure. When using a composite data file the primary component is configured on the "Advanced" tab of the project properties. - Support for including overlays from an IBM iSeries host when referenced in an AFPDS data file. The option is in the "AFPDS" tab of the "Data Parsing" tab of project properties. When testing locally, the overlay file must be in the same directory as the data file and its extension must be ".afpds". The Director Toolkit has an option to view the available overlays on an iSeries host and download them for local testing. - Overlay library location for AFPDS data files can be defined in a project. If left blank (default), all libraries on the

		iSeries will be searched. If used locally, the library name is a subdirectory relative to the data file's directory. - Extensions to Web Service to support POST data in many content types. This will be used primarily to call web Services that use XML input and output. - New 'Document Output from Project' document component. This is useful to format text or XML that is in a variable with another project. - Options to upload and download files to/from IBM iSeries and Unix/Linux servers on the Host Tools menu. - New "XML Output" tab for the project properties. When generating XML output, this new tab allows control over the name and namespace of the root element. It controls whether the "<xml?" declaration is included. It also allows the definition of namespaces. The namespaces can be specified on the root and any record elements. - Version release number is saved in all of the Director Toolkit configuration files. - 2 of 5 barcode in ZPLII input is now recognized. - The Director configuration now has a configuration for the default startup parameters. They will only be used if there are no command line parameters. - Settings files for the Directory, WebServer, eDIRECT PLUS Agent, and Service Managers are now installed on a host, if the date of the workstations file(s) are newer than the host file(s). - Description field for Table, Row, and Box components. - Additional parameters added to FontsSpecs.xml file for ZPL fonts. - Add 'Matches' as new conditional operator. { Added to release notes on 4/14/14 } **Modifications:** - Rotations can now be specified for the "Load Image" rule. - Changes made in support of project level security. Now includes "Full", "Restricted" and "Demo" levels. - The final value of a global value can now be passed to the Print Monitor (or the new Queue Monitor in the Director). - Variables in the Print Monitor (or the new Queue Monitor in the Director) are accessible in a project. If the data file is not an xml file the value will come from an xml node named "QMVariables/<variablename>". If the data file is an xml file the value will come from an xml node named "<datafileroot>/QMVariables/<variablename>". - A new tag can be used to chain to another configuration file in eFORMzCfg…xml format. - Lowered the default priority fence to display the toolkit configuration file listing in the eFORMz log to a value of '7'. - Host menu in the Composer now refers to the Director Toolkit. - Added new file reference (*PrintServiceFixer7.jar*) to eFORMz.ini & jsl.ini files which should resolve Windows printing issue which has plagued users since a print spooling bug was introduced with Java 1.5. Alternative was to uncheck SNMP Status enable in the port settings of the printer. - Updated the release of Java, which accompanies the product, from version 1.7.0_07 to 1.7.0_10. **Fixes:** - A number of fixes were applied relating to processing WMI labels. - iSeries: Printing to printer that had a logical name configured in Printers.xml did not work - iSeries: PrintPlus output to a printer did not work. - Compressed/Expanded white text printed (PCL printer) on a black background came out gray instead of white.
03b	**1/02/13**	*Release 8.05 – eFORMz* **Fixes:** - Empty or 0-byte data files would cause Java IO FileInput Stream errors.
03	**12/13/12**	*Release 8.05 – eFORMz* **Fixes:** - Resolve issue with monitor failing during the logging process as a result of a Java null pointer exception error.
02b	**10/12/12**	*Release 8.05 – eFORMz* **Fixes:** - Remove hard-coded log roll at five minute interval (trace).
02	**10/11/12**	*Release 8.05 – eFORMz* **New:** - Added new 'Node Filter' option on Variables generated associated with data nodes. - Added new license check box to the Help About screen to verify validity of product.
01	**10/04/12**	*Release 8.05 – eFORMz* **New:** - Added support for Zebra's ZPL II. - Added logging of current configuration and license details. **Fixes:** - HP-GL2 pen width defaulted to '0' when it should have defaulted to 0.35 mm. This caused a problem with data files that didn't explicitly set the pen width. - Underline control code in IPDS data file was not previously supported. - Control code to trim/not trim barcode data in AFPDS data files was being ignored. - When a project had more than one form but was only emailing one of the forms through eDIRECT the images for the other form were included in the email (in some email clients they appeared as attachments). - Imported forms from .tif files were not being saved correctly.

		- Images from RTF files were sometimes duplicated. - Ungrouped file output from eDIRECT was not ordered correctly. **Modifications:** - Log file rollover options included in logging configurations of the Toolkits. - Additional entries made in the FontSpecs file in support of ZPL II. - Added support for printer options (Zebra & Postscript) in Printers.xml file. Presently they need to be added manually, however, in an upcoming release this will be available from a user interface. - Debug information for "StringIndexOutOfBoundsException" errors will be reported in the AS/400 log file. - Updated the version release of the port monitor (monset) to 1.4. - Updated the release of Java, which accompanies the product, from version 1.7.0_05 to 1.7.0_07.
04	**07/19/12**	*Release 8.04 – eFORMz* **New:** - Added default resolution settings for images. - Added four new page reference options for a Box component which are absolute positioned. - Added new "Starting page" property for Page Number Action and Page Number Content Segment. - Added option in form properties for omitting in-line styles when outputting to HTML. - Added a new font entry 'EVS Barcode' and modified the Barcode SymbolSet "26" with updated values to the font specification file (FontSpec.xml) in support of RP's Direct Commerce collate spoolfile output. - Added "DocLib" as a new archive provider to the eFORMzCfg.xml file. - PDF/EFD Input Field feature now added to document template - text input can be inserted to produce PDF or EFD (eFORMz document) 'fill-in' files **Fixes:** - Data positioned less than 75% of the VMI from top of the page would cause a CR/LF when outputting in text format. **Modifications:** - Updated the release of Java, which accompanies the product, from version 1.6.0_31 to 1.7.0_05.
02	**05/16/12**	*Release 8.04 – eFORMz* **New:** - SQL Load procedure action. This will load variables with values from an SQL query. The variables will occur the same number of times as there are rows returned from the query. **Modifications:** - When importing a page from a pdf file into a project as an image the spaces in "Page n of " have been changed to underscores. - Postscript Printer Descriptions (PPD) files can be used for postscript output by adding a "PPD" attribute to the "<Printer>" tag in Printers.xml. This needs to be done manually at this time. - Modified executables with new product logo. - Updated mail.jar from version 1.4.3 to 1.4.5. **Fixes:** - Not all references to a variable were being discovered, therefore you could end up deleting a variable in use. - Projects that had empty input would cause the Print Monitor to stop with an Unexpected Error. - PDF417 2D barcodes in AFPDS output caused a null exception error. - Text attachments to emails where the filename did not have an extension of ".txt" cause an IO Exception error. - Non-grouped eDirect output did not output all the pages. - Number of Pages in Group now gives the actual number of pages. Previously pages generated by a Document Template only counted as '1'. - When copying a form with drag-n-drop, occasionally the images did not get copied resulting in an error. - A "Pipe closed error" in the Macro Preprocessor occurred when macros were nested. - The proper icons for the Toolkits were not appearing and default folder images were being displayed. - Discovered missing jar files for new charting feature. These have since been included in the install.
08c	**04/19/12**	*Release 8.03 – eFORMz* - Fixed an incorrect value in the conversion table in support of the IANARegistryName "IBM037" on the iSeries. - In addition to a new entry in the Text2XML pre-processor - a sample project and RTF form overlay file were added in support of Red Prairie's 'Direct Commerce' PO email. - Updated the release of Java, which accompanies the product, from version 1.6.0_29 to 1.6.0_31.
08b	**04/02/12**	*Release 8.03 – eFORMz* - Discovered and fixed an incorrect value in the conversion table in support of the IANARegistryName "IBM037" on the iSeries. - Updated the eDP_Configure job for configuring eDIRECT Plus.
08a	**03/29/12**	*Release 8.03 – eFORMz* - An attempt is made to release memory after each input page is processed. Projects which require sorting will have all of their pages stored in memory prior to the sort and the output generated. As a result, this change will not affect any memory requirements for sorting. For grouping, each group is collected before any output is generated, therefore, memory will be required for all pages in the group. Once the group is outputted, then the memory is released. Groups are typically small in number, for example, all the pages for a particular order. - Added additional logging in support of debugging AS400 character set translation problems.

		- HTML templates that don't have HTML and BODY tags will be assumed to be all body. - New positioning options on the Box component of a document template. The normal way this works is called 'Within document". The "Absolute positioning" option allows you to specify the page and position to position the box. The coordinates are relative to the document so if you want to position above or the the left of the margins then negative numbers must be specified. - Placed an older version of the SQL-JDBC connection driver (sqljdbc.jar) into the /AS400 subfolder which is then automatically transferred to IBM iSeries servers during a host install. The current driver (sqljdbc4.jar) only supports Java 6+ and located in the /Local subfolder. - Added a translation table to the FontSpecs.xml file in support of the IANARegistryName "IBM037" on the iSeries server - necessary for translation between IBM's EBCDIC code and Unicode. - Replaced existing java service executables (jsl.exe & jsl_64.exe) with updated versions which are statically linked to MS Visual C++. - Modified the default login account for the eFORMz Printer Monitor Window Service from NTAUTHORITY \ NetworkService back to Local system login. The option to configure the correct login for any site can be performed in either the configuration files (jsl.ini & jsl_64.ini) or once the service has been created, from within the property setting. - Generating PCL file output caused a Java error condition and was related to the new setup field added in 08.03.05. This has since been corrected. - Host install for AS400 was not clearing the /jars folder when this option was selected. Fixed.
05	**03/15/12**	*Release 8.03 – eFORMz* - Global variables are now made available to the Print Monitor as variables. Their values can be substituted in the PM configurations by using the "<…>" around the variable name. - The variable "ProjectStatus" has a special meaning.If its value is "abort" (case sensitive), then the Print Monitor stops processing as if an error has occurred. No post processing is performed and the data file is not renamed to hold (.hld) or deleted, depending on configured disposition. - A new "Setup" field has been added for printer and generated output in eDIRECT. This applies to PCL, Color PCL, and Postscript formats. For PCL and Color PCL, the string will be added to the output right after the intial printer reset (escE). This allows setup of an initial print environment different from the printer's defaults. For Postscript printing, the string will be added right after the first line ("%!PS-Adobe-3.0"). - Errors connecting to eDIRECT+ agent from eFORMz are now displayed in an error dialog. - When creating a variable that uses an XML data node, four new summarizing options are now available for xml data nodes that have children. These new options are: • Count of child elements • Sum of child elements • Concatenation of child elements (comma & new line delimited) - When eFORMz outputs to HTML, any configured Id's and Class's for any document template elements will now be placed in the HTML. If you merge the output with a HTML template file then this file can make use of these ids and classes in styles. - Arbitrary characters before the first valid HTML tag (starts with a '<') are excluded. - Added new barchart rule and document template content. - Bug introduced in 8.02.02 caused a rule action using an image from a project, file or url causing a null exception error. Fixed. - Ability to use a HTML file as a template for HTML output. The HTML template file is configured on a new "HTML Output" tab in the Form Properties dialog. Document Components from the top level of a Document Template are merged with the HTML template by "Id" (as configured on the "Style ID" tab of the component's properties dialog) matching the "ID=" parameter on a "<TABLE>","<P>", or "<DIV>" tag in the HTML template file. - Modified the 'eVS Barcode Data Generator' function so that it will no longer perform a length check on any of the data fields. Certain USPS ship methods require varying length fields for barcode generation. Minimums are still applied as data is left filled with zeros. - The reported iSeries log error message "Spool file is not in AFPDS or IPDS format" has been changed to "Spool file format is <format>, not *AFPDS or *IPDS". - Discovered that the Java reference for the Windows (32-bit) monitor service was pointing to the system level of Java and not that which accompanies the product. Provided the JRE path in the configuration file (jsl.ini) to reactivate. - Added two new system variables: • Current Time (Timestamp) – returns the current time as the number of milliseconds since 1/1/1970. • Data File Timestamp – returns the data files last modified time as the number of milliseconds since 1/1/1970. - Fixes were applied to the following error conditions: • Generating Intelligent Barcodes with certain data • Loading an image from a variable when the contents of the variable didn't indicate an image in the project • Reading data using the Text2XML preprocessor when the data file contained null characters and certain character sets were used • Null exception thrown when invoiking the "Edit all rows" or "Edit all columns" dialogs • Bolded warehouse location field (Red Prairie/Direct Commerce output) was not aligning correctly. • A few positioning problems with barcodes in AFPDS files.
02	**02/21/12**	*Release 8.02 – eFORMz*

		- Added “Maximum columns per line” to Pagination preprocessor. - Form overlay was not being redisplayed when Project Properties was updated. Fixed. - If a form constant, which referenced an image in the Project and the image was reloaded, the form was not redrawn, so the image did not reflect the change. Fixed. - Updated mail.jar from version 1.4 to 1.4.3.
00	**02/07/12**	*Release 8.02 – eFORMz* - Support for Postscript printing and file output. - Option to add ‘Descriptive Printer Name’ or often referred to as ‘friendly’ name to unlimited printer users via the Printer tab in the Toolkit. In prior releases this tab was only available to those with limited licenses. Special note -> once this option is selected then future references to printer devices must come from the Printers tab. - Resolved an issue with image printing through the Toolkits. The process would fail with an ‘error null’ condition. - Added the ability to include the rules or a document template from an external project. - Added trim option to barcode action. Trimming has always existed as the default, however, the option now permits one to disable this action. - Added support for gradient shading of textboxes to RTF parser. - Added support for Window’s metafile images to RTF parser.
07	**01/13/12**	*Release 8.01 – eFORMz* - Modifications made to Text2XML convertor preprocessor.
06	**01/11/12**	*Release 8.01 – eFORMz* - Fixed problem with cursor positioning for HP2934 barcodes in data file. - Number of copies from project properties was not being used when printing with the print monitors. Fixed. - Images that were used in links and not from a URL displayed with a border in some email clients. - Implemented an external file selector function in the eFORMz Toolkits and Print Monitor. Custom external file selectors can be written and configured in the eFORMzCfg.xml to provide additional functionality for the processing and printing of files. - Replaced all executables with new versions which contained the splash screens for 2012.
04	**12/21/11**	*Release 8.01 – eFORMz* - Fix applied to the save function when saving multiple times without using the editor (TextToXml preprocessor). - Table-lookup function not capturing values associated with an internal database when initially referenced. Fixed. - Display “sun.arch.data.model” (32 or 64) with JRE version in log file. - Several modifications were made to the local queue monitor in support of providing additional log tracing. Also added an automatic restart of a thread if an ‘OutOfMemoryError’ condition occurs. - Fixed the handling of a nearly empty input file that results in an index error trying to handle page zero of zero pages. - Only permit verbose mode in the Composer when TextToXML converter is specified. - Fixed an error condition which would result when performing a compare with non-repeating global variable.
03	**12/13/11**	*Release 8.01 – eFORMz* - New sort option available on the File Selection statement within the configuration dialogs for all Toolkits. Options include sorting by filename (ascending / descending) or date/time file was last modified. - Fix applied when a project image was reported being used by a Load Image Action or Image Constant when it wasn’t. - Metadata errors prevented certain images from loading. Fixed. - When the queue monitors were started in the Local Toolkit, the first logging tab was not selected. Fixed. - When a sort key was edited that had the group set and clicked on “OK” the group setting became unchecked. Fixed. - Added a new function named “Does file exist”. It returns “yes”if the file exists or “no” if the file does not exist. - eDIRECT output can be set to have the output grouped (which was the current default) or not grouped. The selection Is done with a check menu item on the popup menu for the output node. - The Archive eDIRECT Plus output now includes a reference to an “Archive”. The “Archive” is similar to a “Database” in that it can be configured from within the project (new tab in project properties) or externally in a new “Archives.xml” file. This new configuration file consists of a name and a provider name and any other parameters specific to the provider. - Logging message to output configuration file and message fence added to Print Monitors. - Logging to Stdout in the Print Monitors stop working with 8.00.12. Fixed - A project that included a document template and multiple pages of input and you were viewing a page > 1, if another data file was opened that did not produce more than one page the view went blank. Fixed
00	**12/01/11**	***Release 8.01 – eFORMz*** - New document template content added. 1D and 2D barcodes, special fonts, text and page numbers can now be placed in document templates. - If the Printers.xml file was deleted and there was a limited printer license, nothing would get saved to this file. The issue appeared with release 8.00.13 and has since been fixed. - Modified some inconsistencies for the color of text in the title of titled boxes. All changed to a default of black. - Added new Windows service shortcuts for the 64-bit version of the Java Service Launcher (JSL).
14	**11/21/11**	*Release 8.00 – eFORMz* - Applied fixes to image generation, where the form was being shifted but not the data. - A flag to generate multiple .tif and .gif images per file was not being set correctly. Fixed. - Image output now defaults compression if possible.

		- Text2XML preprocessor configuration is now stored within the project. - Added a complete list of new PDF output view options. - Addressed issues relating to the Text2XML convertor which prevented saving project changes. - Added a new character set entry to the FontSpecs file in support of Unix (ISO-8859-1). - Updated the release of the Java Service Launcher (JSL) from .099f to .099n. - Modified the Windows service configuration file (*jsl.ini)* to exclude unused entries. The service will be now be referred to as 'eFORMz Print Monitor' instead of 'eFORMz_6 Local Monitor'. - Updated the release of Java, which accompanies the product, from version 1.6.0_27 to 1.6.0_29.
12	**11/02/11**	*Release 8.00 – eFORMz* - Applied a fix for the command file parsing preprocessor routine. - Added missing "(user.dir '/minisoft')" parameter in default Submit Job command in AS/400 Toolkit. - Content Segments now use the UI (user interface) default font and size for the value text area. All the "Font" panels for the Document Template and subordinate objets show "Sample Text" in the selected font, size and color. - Host installs upload the contents of the "conversion_cfgs" subdirectory recursively. - Not all the error messages generated during printing were being logged. - Adjustments made to parsing of command files to eliminate white space and control characters. - Attempting to create a database output process within eDirect starting with a blank slate produced nothing. Fixed. - Added drag-n-drop function for Archive and Folder nodes. - Added new icons for the new eDIRECT nodes.
11	**10/18/11**	*Release 8.00 – eFORMz* - Added the "conversion_cfg" subdirectory to host installs - Database configurations stored in "Databases.xml" will be shown in combo boxes of any configuration that uses a database. - Added Database output functionality in eDIRECT Plus. The purpose of the Database output is to provide the ability to redirect output to a database. The configuration for the "Database" node includes the database name (either configured in the project or the "Databases.xml" file) and the "Auto Commit" checkbox. - Text To XML modifications: • Save Size and Position with on-screen check • ToolTips on line number for current state and level • Multi-Item copy and move with drag-n-drop feature • Highlights grey outline for parameters, with yellow highlights on line • Grid lines across multiple Loading a form from an image file did not work correctly. Fixed • Remove details of lines on output display for non-leaf notes • Line drop down on State editor, matched the order of the Lines tab and not in alphabetical order • Rebuild state root on tag change • Confirm changes before exit • Refresh data on exit • Change color of selection to match eFORMz Composer Viewer color • Blue "green bar/grid" changed to light gray • Change selection highlights to outline highlights instead of background highlights – similar to the Data Viewer data selection • New lines should be added to the bottom of the list • Do not move caret position of sample data when highlighting • Added active and deactivate options – with a check-box option • Allow one to search for a character or string of characters on a given row. Not a fixed position or starting column. • Test and save are now separate • File selection dialog includes both .ffp and .xml extensions
09	**10/06/11**	*Release 8.00 – eFORMz* - Loading a form from an image file did not work correctly. Fixed - Fixed issue with "Retry" state parameter in TextToXML preprocessor. - Added 'drag-n-drop' to the Lines tree within the TextToXML configuration editor.
08	**10/05/11**	***Release 8.00 – eFORMz*** ***eReader – 08.0.00*** ***OnDemand Print – 1.0.1*** - Support for processing XML formatted files as data input and output. - Support as data input EDI (Electronic data interchange) type files. - Major changes have been made to the eDIRECT module in both the method of configuration and features. These changes include the following: The drop-down selection or use of the "wizard" icon has been replaced with a tab option from within the project tree. Multi-line tooltips have been added to the tree and variable nodes associated with this enhancement. For

pre-8.0 projects utilizing eDIRECT, the old 'wizard' method of access to this module is still available. New projects will reflect only the new method of entry.

Full conditional logic capability is now available. Prior versions only permitted conditional checks on whether a field was blank or not.

Printers can be defined with a reference name so that the actual printer used can be changed without having to modify the Toolkit configuration file or the project.

Multiple jobs (file / print output formats) can be specified on a single print or fax process

- *Special Note: The order of the elements in the old version of eDirect is now critical!*

- **eDIRECT Plus** – an enhanced version of eDIRECT which provides additional functionality and capabilities beyond the standard module. These enhancements include:

  - Support for HTML (inline) email
  - More than one body can be specified in an email
  - More than one attachment can be specified in an email
  - Support for SMS communications for text notifications and alerts
  - Delivery actions can be performed { Delete / Notify / Dispatch } on emails

- **eSUBMIT** is a new command line program that will copy the standard input to a directory or an IBM Websphere message queue. Optionally it will also create an eFORMz command file that will specify how to process the data file. It's use and functionality can be referenced in the appendix section of the eFORMz manual.

- Support for the QR (Quick Response) barcode - a very efficient, matrix or two-dimensional (2D) barcode that is commonly used with smart-phone devices to direct users to additional information about a particular product. The information encoded may be text, URL, or other data.

- Added two new pre-processors to the eFORMz configuration file (eFORMzCfg.xml):

  * Flat File Parser – ability to parse as input comma delimited or EDI formatted files
  * Text to XML Converter – converts text files into "industry standard" XML formatted data

- Additional logging added in support of monitoring the renaming of a print file to a held state (.hld).

- eFORMz can now support custom page dimension specifications. User-specific specifications can be added to the eFORMzCfg_User.xml file.

- Automatic cell padding is now set to zero. This is not the typical browser default, so use "Explicit" mode to force it.

- Box component has new width and height settings.

- Modifications made to the FontSpec.xml file in support of MODCA (IBM's AFP and IPDS) input fonts.

- Output record grouping has been added to the SORT tab.

- Several new actions were added for placing page numbers in output:

  "Page number within group" – the number of the output record within a group based upon sort specifications

  "Number of pages in group" – the total number of output records within a group based upon sort specifications. If there is no grouping specified in the sort specifications, the number is meaningless.

  "Page number within document" – the number of the page produced from a document template when formatting the document for page oriented output.

  "Number of pages in document" – the total number of pages produced for a document template when formatting The document for page oriented output.

- New option added on table rows to specify the use of the row:

  "Normal row" – the row is to be used in its declared position in the table. This is the default and new rows and all

rows in current projects will have this set.

"Page header" – use this row as the first row on the page when a table is split because of pagination.

"Page footer" – use this row as the alst row on the page when a table is split because of pagination.

- Extra configuration settings were added for all 2D barcodes allowing more control of their dimensions.

- Host installs to Linux/Unix and IBM's iSeries server now come with an option to include a copy of the /fonts folder from the Windows install and an option to clear the remote /jars folder.

- Support for generating IBM's AFPDS formatted spoolfiles.

- Page rotation for IBM's AFPDS or IPDS input files.

- An input object or data node (string of text) can now be defined as a variable or rule directly from the data editor pane without having to perform a character block selection. This new feature can be especially useful for capturing objects imbedded in the original print file, such as barcodes. Special note: text is broken up into separate objects when there are more than two spaces between characters.

- Conditions can now compare against one of the following occurrence(s) of a variable: { Any / All / First / nth }

- Document templates can now be styled using CSS (Cascading Style Sheet) files. These files describe the 'look and formatting' of a document written in a markup language.

- The output viewer now includes an option to display a grid which includes 'snap selection to grid' for easier placement of text, barcodes or images.

- Input queues, specified within the configuration file of the Toolkit, can now be named to better identify the selection location.

- Support for several new input queue types for IBM Message Queues (Websphere MQ) and Remote queues via SSH and secure FTP.

- Many of the selection icons from the Composer taskbar were replaced with icons depicting better graphical images.

- File output can now be directed to image files. The following formats are now supported { TIFF, JPG, PNG, BMP }. If multiple pages are specified then the corresponding image filenames will include an extenstion (_1, _2, _3, etc..)

- "Printer not accepting data" error is ignored.

- Added 'Cancel' button to the confirmation dialog to Adjust Coordinates for changes to CPI or LPI.

- Toolkit processing has changed the way it handles multiple output processes under a single project.

The previous method was to process each output process sequentially. This meant that the data was re-read for each output process and if an error occurred in one of the output processes, other processes ahead of it could have completed. Effective with this release all output processes are executed in parallel so that the data file is only read once and an error in any output process will halt processing of the project at that point.

- The Toolkit will now buffer input from remote data files so that if there is more than one project configured to process the data file it will only be transferred once.

- A condition can now be added at the project level, which once the condition becomes *false* the project halts execution.

General use would be to set a condition based upon a variable defined on the first and subsequent pages of input data instructing the project to execute. It can also be used to halt execution at any point during processing. For example, if you wanted to process your print file until a certain page caused a 'false condition' to occur.

→ Special Note: Project conditions are ignored when viewed from the Composer.

- Added error message display when a parsing error is encountered in a css file.

- Noted in the JRE (Java) report line whether the user is running the Composer under a 32 or 64bit operating system.

		- Updated the release of Java, which accompanies the product, from version 1.6.0_23 to 1.6.0_27.
22	**06/13/11**	*Release 7.05 – eFORMz* - Some Linux, Unix and Mac OS's have a bug in the Java print lookup facility which won't locate a printer by name. This work-around addresses this issue. - Modifications made to the log file to support additional error checks.
20	**05/31/11**	*Release 7.05 – eFORMz* - Support for variables within a HTML link.
18	**05/18/11**	*Release 7.05 – eFORMz* - Fixed problems which resulted in the viewer output to display differently than the HTML output. Some project that use a table within a table cell may need to have the width of the outer cell adjusted (increased by the sum of the left and right borders) for the HTML to appear correctly.
16	**04/28/11**	*Release 7.05 – eFORMz* - Using fonts in .ttc files caused an error condition when printing. Fixed - If the color and/or font for a content segment was set to automatic, the default from the containing element was not used when outputting to HTML. Fixed. - The "Active in Viewer" for a database has been changed to "Active in Composer". As a result, if a database is marked as *not active,* any output performed from the Composer will not reference a database. Prior to this change only outputting to the Viewer did not reference the database. - Tab positions in .RTF files are supported with the exception of decimal tabs.
15	**04/19/11**	*Release 7.05 – eFORMz* - A new system variable was added "Raw Page Data" that will contain all the data from the input page concatenated together. The variable is dynamic in that its content is not calculated unless the variable is actually used. - Modification made to recognize ".ttc" as a font that can be encoded as Unicode. - Data would shift out of alignment for certain multi-byte characters depending upon the dpi setting which was referenced in the viewer. Discovered that this was an issue with Java's JRE. The fix was to position each character explicitly along with some optimization in the screen output to avoid this in the future.
13	**03/14/11**	*Release 7.05 – eFORMz* - Added the attribute "border=0" to the image tag to disable the border which would appear on linked images for HTML output. - When reading in projects created in version 6, the input/output character set option was not configured the same as originally configured in the project. This has since been corrected.
12	**01/20/11**	*Release 7.05 – eFORMz* - Character set was not being properly set in the email header. Fixed. - Provided an option to enable SSH2 as a connection to Unix/Linux servers. In prior releases this was the required method of connectivity where as the default now is FTP.
11	**01/17/11**	*Release 7.05 – eFORMz* *- Images were not being loaded based upon the repeat value of a variable. Fixed*
10	**01/05/11**	*Release 7.05 – eFORMz* - An opacity value in certain RTF files caused an illegal argument exception error. Fixed - Replaced all executables with new versions which contained the splash screens for 2011. - The banner generated in emails produced by eDirect has been removed.
09	**12/29/10**	*Release 7.05 – eFORMz* - Logging tabs in Local Toolkit did not work correctly if one or more of the outputs was disabled. Fixed. - Updated the release of Java, which accompanies the product, from version 1.6.0_21 to 1.6.0_23.
08	**12/08/10**	*Release 7.05 – eFORMz* - Vertical text in RTF output would not display correctly. Fixed. - Updated the FontSpecs file with entry supporting Canada Post's Code128 barcode for Ecometry. - Added 'Bulk Concatenate' as a new variable function to permit searches on large sections of text or to display the text in a string format.
07	**12/03/10**	*Release 7.05 – eFORMz* - If the forward page arrow was pressed in the viewer until it disabled itself and the "Display Forms and Data" was selected, the forward arrow would not be re-enabled and the reverse arrow remained enabled. Fixed. - If a node was collapsed which had children that were expanded and the project was saved and re-opened, the children for the node were not expanded. Fixed.
06	**11/30/10**	*Release 7.05 – eFORMz* - If a network drive (UNC path) was specified for the project selection in the Local Toolkit an error condition would occur indicating that the file could not be found. This has been resolved.
05	**11/29/10**	*Release 7.05 – eFORMz* - Certain conditions caused the Composer to freeze when opening a project from a prior release. Fixed.
04b	**11/22/10**	*Release 7.05 – eFORMz* - Fixes a problem with the Remove button on the Images panel of the Project properties dialog.
04	**11/09/10**	*Release 7.05 – eFORMz* - Modifications made to the file selection process of the print monitor for all Toolkits. This has resulted in a considerable

		improvement in the speed of locating and processing selected files. - Updated the FontSpecs file with the changes supporting the FedEx (PDF417) barcode for Ecometry.
03	**11/08/10**	***Release 7.05 – eFORMz*** → *Special note: Java Release 5 (1.5) is now required on iSeries (AS400)& Unix/Linux servers running eFORMz.* - New Document Template (dynamic form) functionality provides an easy method for generating enhanced html output. These templates can contain any number of document components, which are broken down by *paragraphs*, *boxes* and *tables*. • *Paragraphs are comprised of content such as text & images* • *Boxes can contain any number of document components. It's main use is to format components in the same manner (ie: font, color, margins, borders, etc..)* • *Tables can contain any number of rows with each row comprised of any number of individual cells. Table cells can accommodate any number of document components.* - A number of changes have been made to the eFORMz Windows Port Monitor: ***Monset*** - now adjusts the registry key for the port monitor to permit full access. ***Efzmon*** - corrected a problem with slow directory searches for the capture directory. Also removed the requirement that the port name had to be referenced as 'EFZn', where n=0 to xx. The port name can now be anything you wish as long as it ends with a colon ":". Also fixed a bug that would cause efzmon port(s) to disappear from the port list if one unchecked the port. → Current port monitor users need to stop the Print Spooler service and copy 'efzMon.dll' file to their Window System32 directory and then restart the service. - Projects are now cached in memory for each input queue associated with the Print Monitor. This should improve response times, especially when the number of files processed by the merge, referencing the same project, is substantial. - Modified the host install for Unix/Linux, adding a drop-down list to manually select the host type. By default this is set to automatic. - Added 'File Header / File Trailer' fields to the eDIRECT Print option and 'Fax Trailer' to the Fax option dialog screens. Special codes or commands (ie: PJL) can now be added to prefix/suffix a merged eFORMz print file. This may be especially useful if your device has the ability to staple and requires controls codes to enable this feature. - Included a newer version of the 'LaserJet 5si Print Driver' for the Windows XP operating systems used as the virtual printer 'efzprinter' to generate forms designed to be imported into the project. This driver (LJ631.exe) is located in the \DOC folder. - Added TIFF Image reader library for Java provided by Sun Microsystems, Inc.. This library is platform dependent and only supported on Windows, Linux and Solaris operating systems. → *Special note: presently not available for the iSeries (AS400) or HP-UX servers.* - When the Default Data Path is changed in the System Configuration its effect is now immediate. - If a font was specified in the PDFInputFonts section of the FontsSpecs.xml file that referred to a soft font (PCLTypeface="-1"), then the reference would go to the first font that it found in the FontSpecs.xml with a PCLTypeface="-1" and not necessarily the font you wanted. This has been fixed. - When printing, sometimes the spacing of the resident printer fonts did not match the spacing of the font described in its .ttf file. There was some optimization that assumed the fonts matched up and each character did not have to be positioned explicitly, but since that is not the case, the optimization has been removed and now each character Is positioned explicitly. - The port number for the SMTP server can now be appended to the server name or IP address using a colon as the separator. (ie: "hosting.companyname.us:2525") - Input from UNICODE and UTF-8 data files is now supported. Modifications to the FontSpecs.xml file was necessary to include changes to the "CharacterSet" entries. There is a new selection in the Form Properties to select the input character set. This is only useful for data files that don't contain PCL escape sequences that specify the character

set. Presently output to PCL is still generated with single-byte character encoding. Future releases will permit the output of multi-byte character sets using true type font files that support multi-byte character encoding.

- A new level has been added to Conditions. It is called a Condition Group and all items within it are ORed together. Any node which is conditional has a root level Condition Group. Each item within the Condition Group is a set of Conditions that are ANDed together. The whole conditional tree is recursive, in that one of the items in the set of Conditions can be a Condition Group, which can contain multiple sets of Conditions. When the whole or any part of the conditional tree is collapsed, the description of the collapsed node displays all the condition groups and condition below it connecting them together with ANDs and ORs as necessary.

- The layout for dialog boxes is in the process of being changed. The layout will be based upon the size of each component in the dialog. This eliminates problems of some components being truncated in certain look-and-feels.

- Content Segments can now contain multiple images from a TIFF image file, or multiple pages from a pdf file. The main use of this would be to include multiple pages from image or pdf files in the output for a project.

- Conditional vertical increment option added to Place Text action to increment the vertical placement of data in the output 'conditionally'. When set, the vertical coordinate for actions using repeating variables only gets incremented when the action is actually executed (when the condition is satisfied or there is no condition set).

- To help facilitate easier access to modifying the properties of a Project/Page/Form, the "Properties" menu choice has been moved to the first item in the drop-down list. The same holds true for the "Edit" drop-down for Variables, Procedures and Rules.

- Fix was applied when a form was copied using the CNTL + drag-n-drop.

- Some optional RTF blocks that should have been ignored were being processed causing positional problems. This has since been fixed.

- Negative entries are now permitted in the form and data offsets for the horizontal and vertical positions in all the form constants and rule actions. Note that if you position something outside the page's margin it may not print correctly.

- Page dimensions have been added to the eFORMzCfg.xml file allowing the product to add new page size choices that some newer printers may have without requiring code changes. The configuration requires a "PCLNumber" attribute which is used in the PCL escape sequence to select the page size.

- Positioning of the viewer window when selecting a variable now makes the start of the variable visible as opposed to the end, when the variable extends beyond the viewing area.

- PCL outputter has been modified to output Unicode. eFORMz processes everything internally as Unicode and makes use of the decoding capabilities built into Java to convert incoming data to Unicode. The "CharacterSet" entries in the FontSpecs.xml file were modified to reference registered character set names (registered by IANA) with the attribute "IANARegistry". Output routines were modified to generate all characters as Unicode when outputting to the screen or PDF.

- Project tree pull down menus have been adjusted to place the "Add" oriented choice more towards the top.

- A new option on the form, "Suppress output when empty", will suppress the outputting of a page generated by this form if there is nothing to output. Empty indicates that no data from the data file is transferred over or the page of data is completely empty. This condition is normally only set if loading an image or page(s) of an image that does/do not exist.

- Occasionally a file lock would occur if attempting to update an image within the project. This has been fixed.

- Support for reading text and barcodes from IBM's AFPDS and IPDS formatted spoolfiles. To download one of these file types from an iSeries server then uncheck the "Data Conversion" checkbox. The Composer will automatically detect the file type as long as the extension is not ".pdf" or ".efd".

- Bitmaps added for MICR CMC7. "MICRCMC7" added as a new choice in the Special Fonts action and dialogs. This is a widely accepted standard font used by the banking industry throughout Europe, South America and many other countries.

- Provide support for Ecometry's release of FedEx server (ver 10.0) which generates the FedEx (PDF417) barcode.

		- New versions of third-party jar files are included which fix a problem with loading pages from a pdf file as an image. With certain types of images on the page, the resolution was off and would appear larger than it should. - For a procedure that uses a multi-occurring variable and has a set variable action to a single-occurring variable, the single-occurring variable will be set multiple times. Before, the variable would only be set for the first occurrence. - Removed "Java support" menu item from the Help pull down. - Added a new menu item to the Help pull down. The "Display Available Character Sets" is used to show the IANA registered names of the character sets supported by the currently running JRE. - Modified the parameter to the AS/400 submit statement within the AS400 Toolkit to reference Java 5 and associate the default directory for all logins to the '/minisoft' directory. The command should now appear as follows: *SBMJOB CMD(JAVA CLASS('/minisoft/Run.jar') PROP((java.awt.headless true)(java.version 1.5)(user.dir '/minisoft')) PARM('/minisoft' 'com.minisoft.HostTools.AS400.PrintMonitor' '/minisoft/AS400pm.cfg')) JOB(EFZPM) JOBD(*USRPRF)* eFORMz will automatically transfer the necessary configuration & license files to the appropriate install directory. - Updated the release of Java, which accompanies the product, from version 1.6.0_16 to 1.6.0_21.
00	**02/03/10**	***Release 7.03 – eFORMz*** - Mouse selection on constant, input field or rule action overlap in the form/data viewer pane of the Composer will now be based upon the smallest item defined by width x height, even if covered by another. The previous method was to select the first one from the project tree. - Added a new external function to the eFORMz configuration file. This new function will permit the generation of the Newgistics SmartLabel (Mod-36 check digit) barcode. - The internal windows are no longer resized when the main window frame is resized, maximized or restored. - Configured a new Variable window to permit immediate viewing of the data value contained within the variable. This Window can be enable/disabled via the 'Window' drop-down selection on the top taskbar. - Copyright graphics updated in all executables. - Apostrophes and quotation marks in RTF files were not being read in correctly. Fixed. - Parsing of pcl escape sequences for shaded rectangles is now supported. - Included the file 'msvcr71.dll' in the /Minisoft/eFORMz_6 folder to avoid problems with starting up the Windows service. This is a work-around for a Java issue still pending.
01	**12/18/09**	*Release 7.02 – eFORMz* - Fix for Composer hang when exiting resulting from modifications made in prior release. - Attempting to stop the eFORMz Windows Service would result in an error and the service would have to be terminated manually from the Windows Task Manager. This has been fixed. - The code which converts color to gray scale would generate numerous Exception_Access_Violation errors during processing if a color image was present and failed to convert. This caused either the Composer or Toolkit to crash with the errors reported in hs_error_pid###.log files. A different method was utilized to get around this issue. - Incorporated eReader java classes into the core eFORMz jar.
00	**12/09/09**	***Release 7.02 – eFORMz*** ***eReader – 01.05.00*** - Data suppression regions can now be enabled/disabled within the forms property dialog. - Project images can be rescaled without having to reload them. - An enhancement has been made to the Unix/Linux Toolkit allowing one to start or stop the monitor via a separate tab. In doing so the toolkit issues remote shell commands to a Unix/Linux server using a SSH2 connection to activate or terminate the automated monitoring and processing of print files on these servers. - Release 7.01.05 issued a warning notification and halted processing if an attempt was made to open a project from the Composer/Toolkit(s) saved in a later release. The halt has since been removed but the warning message is still displayed and logged.
05	**11/23/09**	***Release 7.01 – eFORMz*** - RTF (Rich Text Format) support has been added to eFORMz allowing for easier form design input. Previously the only method of importing form images was to direct the form output to a 'virtual' printer (efzprinter) or import as images. With RTF functionality, the saved document file can now be imported directly into the project therefore no longer requiring the extra steps. - Added a "Reload" option on the form drop-down. This will reload a RTF form from an original MS Word RTF file. - Added new buttons for "Reload Form" (on main toolbar) and "Open Datafile" (in viewer window). - Parent directories will automatically be built if output files generated by eDIRECT do not contain directories which already exist.

- Variable selection can be performed in any direction. Note: if you want to go right-to-left and/or bottom-to-top and you've specified 'snap-to-grid', you must start one grid position either to the right and/or down.

- Site specific configurations for preprocessor and/or external functions can now be placed in a file referred to as "eFORMzCfg_User.xml"

- Site specific font references for the viewer, print and PDF output can now be placed in a special fonts file formatted like that of the FontSpecs.xml file which accompanies the product. This new file is referred to as "FontSpecs_User.xml".

- Alphabetized the displayable fonts (both fixed and proportional) within the Fontspecfile.

- Text output to a PCL printer via the place text rule selected to print white on black background now appears.

- Paper sizes "Ledger" and "International B5' did not produce correct escape sequences in PCL – fixed.

- Enhanced viewer toolbar with a number of cosmetic changes.

- Added a repeat interval spacing setting on the 'Load Image Action' rule dialog screen. One existed for text and barcodes but not for images.

- Added a disable option for functions associated with a variable.

- Modified the eVS Barcode generator so that invalid characters, non-digits or shortened field will no longer generate an error and freeze the process.

- Added PDF encryption for PDF output generated by eDIRECT. An 'Options' button has been added to the output process display screen and will be enabled if PDF attachment is selected. Please see manual for a full list of options.

- Enabled trash can icon (remove) to variable functions and procedures on main toolbar and within project menu.

- Includes revisions to several supported java jar files.

- Improvements made in outputting color images to b/w printers. This includes better rendering and proper scaling.

- Modified the PDF Input Font names from 'Times Roman' to 'Times New Roman' within the Fontspecfile.

- Ability to select images from PDF files for forms or specific image display. The option has been added to the Load Image dialog box which also allows one to select a page reference.

- Dynamic scaling of images during the load process is now possible. This option has been added to the Load Image dialog box with values of zero indicating no scaling is to take place. Scaling choices are:

  None - no action taken
  Shrink to desired Size - will reduce the size of the image if it does not fit in the desired size rectangle
  Fit to desired size - will change the size of the image to match the desired size rectangle
  Lock aspect ratio - keep the ratio of the images dimensions the same when scaling

- Empty strings did not compare "Equal to" or "Not equal to" correctly. This has since been fixed.

- The reference to "Barcode" has been changed to "1D Barcode" in all appropriate menus.

- Previously one could not change a procedure name by editing its project tree node. This has been fixed.

- A warning message will now be displayed during the opening of a project if one of the two scenarios is true:

  - Project was created by a version of the Composer with a major version number greater than that being used (ie: Composer -> 7.xx Project -> 8.xx)

  - Project was created by a version of the Composer with a major version number equal to but minor version number greater than that being used (ie: Composer -> 7.00 Project -> 7.02)

- New host installer dialog display. The display also remains on the screen until "Done" is pressed. Previously the display would vanish once the install was complete.

		- Updated the release of Java, which accompanies the product, from version 1.5.0_16 to 1.6.0_16. As a result of this update a change had to be made to the java call statements for the Composer and Toolkits. Upgrading to version 1.6 now permits pcl & image printing without the need for the call to the older jps (java print service). - Replaced executables with new versions as a result of the Java upgrade.
04	**06/03/09**	*Release 7.00 – eFORMz* - Control characters in constant eDIRECT elements were being evaluated as spaces. This caused a problem with some fax server software that used 'newlines' as delimiters between commands, but not spaces. The result was a blank page at the start of a fax. →Note: this change resulted in a bug fix within eDIRECT resulting in the previous truncation of spaces preceding or adjoining any text associated with a filename. As a result, this may cause filenames to extend beyond what was previously defined. To adjust for this, simply add a right/left trim function to the associated variable(s). - Fixed a bug with printing in color and generating 90 degree print orientation. - Data suppression regions can now be specified in the forms properties dialog. Any incoming data that is completely inside one of the regions will be suppressed. The positional values entered are in decipoints and a dotted rectangular box will be displayed in the data viewer noting the area 'white-shaded'. Note: this is performed after the form condition is evaluated, but before any rules are executed. - Fixed a bug when attempting to open a project that included images which are PCL files.
03	**05/11/09**	*Release 7.00 – eFORMz* - If data was selected from the data grid and 'Add Rule' was chosen in place of 'Add Variable', the selected Use Variable field would appear as system variable heading and not the actual variable. This has since been fixed. - If one referenced a database in the eDIRECT specs and then deleted all the items which referenced the database the database was still being opened. Now databases referenced in eDIRECT are only opened if used by an item. - Some SMTP servers were returning illegal address errors as general connection errors. A change was made to simply log these errors and continue processing rather than halting the eDIRECT process (which normally occurs on a connection error).
02	**04/28/09**	***Release 7.00 – eFORMz*** ***eReader – 01.04.00*** ***OnDemand Print – 1.0.1*** - 2 dimensional barcode support. Unlike conventional (1D) linear barcodes, 2D barcodes provide much greater flexibility and data storage within the images. These images can be decoded with a PDF compatible laser or CCD scanners. The individual 2D fonts are: **Aztec** - matrix barcode type that does not require quiet zones **MaxiCode** - used primarily by UPS to route and track packages **Data Matrix** - a matrix symbol which allows efficient encoding of data into a square barcode, includes data correction **PDF417** - unique 2D barcode type is commonly used on Fedex shipping labels - USPS Intelligent Mail barcode is now available. The US Postal Service is promoting the use of this barcode because it expands the ability to track individual mail pieces and provides customers with greater visibility into the mail-stream. USPS will require the use of this barcode to qualify for automation pricing beginning in May 2011. - New Secure Numeric font. This new feature adds an extra layer of security to your printed checks by super-imposing a unique font image, representing the dollar value of the check, below the amount field. This option can be selected from the drop-down selection on the barcode action dialog screen. - New Global Variables implemented. Permits data from one page to be stored and displayed on subsequent pages. - New Procedures implemented. Includes mathematical calculations (+ - / x), column sum and numeric formatting. - Modified the OnDemand Print utility to include the default (file select) directory path within the *eFORMzPrint.ini* file. Included an option to delete the print file after redirecting the output to a printer device. - When attempting to add more than five entries to the 'Multiple replace occurrences of a string' pre-processor an error condition would occur. This has since been fixed. - In prior releases the use of the "%" referred to the first file name in an external command. One can now specify "%n", where 'n' is a zero-based index of the names of the files produced by a file output or e-Direct process. A '%' by itself still refers to the first file (backward compatibility).

		- Replaced all executables with new versions which contained the splash screens for 2009. - A project that produced no output would hang or throw an exception when printing or outputting to a file. This has been fixed. - Occasionally the selection box for selecting data for a variable would appear as a thick line. This was a side effect of a previous change made in the function which paints lines in the output to the screen. Has been fixed. - The Comboboxes for selecting a variable that are in various configuration dialogs have been changed to categorize the variables under three different categories. - Size of barcode type fields in 'Barcode Action' and 'Barcode Element' dialogs has been increased. - MICR13B, OCRA and Secure Amount barcodes have been removed from the barcode action and barcode constant dialogs and new dialogs for them have been added. Existing projects will convert automatically when read in. - Title change from e-Direct to eDIRECT. - A fix was included so that Adobe's Acrobat Reader would immediately read PDF output when called from the Composer. - Printing is processed in a separate thread and the output fed back to the main process through a pipe. If an error condition occurred during printing the thread just quit which could cause a file to remain in the print queue in a 'printing' state. A fix was applied so that the pipe is closed before the thread quits. - Soft font symbol sets can now be suppressed from the incoming datastream. A new button was added to the existing 'Data Parsing' tab of the Project properties dialog box. - A new command line option "PROP((java.awt.headless true))" was added to the AS/400 submit line within the AS400 Toolkit. This requirement was necessary in order to take advantage of new options for color to gray scale conversion which rely on direct calls to java awt routines to non-native versions of these routine. The command should appear as follows: *SBMJOB CMD(JAVA CLASS('/minisoft/Run.jar') PROP((java.awt.headless true)) PARM('/minisoft' 'com.minisoft.HostTools.AS400.PrintMonitor' '/minisoft/AS400pm.cfg')) JOB(EFZPM) JOBD(*USRPRF)* - Reads and outputs the bitmapped soft fonts used for barcoding in the Manhattan Associates output. - Password field in SMTP Options dialog box now disguises the entered text.
03	**12/10/08**	*Release 6.11 – eFORMz* *eReader – 1.3.1* - Wildcard selection added to the INPUT directory selection for all Toolkits. As with the file selection option, one can now specify either an asterisk "*" and/or "?" to search multiple directories. - Discovered a problem when attempting to read in eFORMz document files (.efd) created for eReader. Fixed **-> Do not install this release on AS400!**
02	**11/25/08**	*Release 6.11 – eFORMz* - Added color support for barcodes. - A new pre-processor '*Text file pagination*' was added which permits form-feeds/page breaks to be entered into the data stream file based upon the discovery of a search string in the input file. - Extended the decipoint decimal position for the height and width of barcodes from .1 to .0001. **-> Do not install this release on AS400!**
01	**11/10/08**	*Release 6.11 – eFORMz* - Initially eFORMz was relying on the JDBC driver to close its connections when the driver's connection object was garbage collected. A fix was applied so that the connection would close after the files were processed.
00	**10/27/08**	***Release 6.11 – eFORMz*** ***eReader – 1.3.0*** - Variables can now be used as bookmarks in PDF output. A new field was added to the Variable dialog - "Use as a bookmark in PDF output". When set, a bookmark in the form of "variablename = variablevalue" will be placed in the PDF output for each page. You can output as many variables, as bookmarks, as you wish. - The licensee is now displayed in the title of the Composer and all Toolkits. It is also displayed in the Help dialog of the Composer - The "runUnix.cmd" is now included in the host transfer of files to Unix/Linux servers. - Added 'Compare as Numeric' as a compare option to our conditional logic check.
13	**10/06/08**	*Release 6.10 – eFORMz*

		- Improved log error reporting for easier problem resolution. - A new option was added to the Printer Control tab to exclude the unprintable left and right edge from PDF output. - Permit a negative value in the horizontal position of a form to allow the adjustment of the left margin closer to the edge for pdf output. A negative value for the form will not have any effect with printing because the cursor cannot be positioned left of the left margin (negative x). - Corrected the Height Factor of the Line Printer font within the FontSpecs.xml file. Previous reference to this font would cause the font to defer to Courier.
12	**08/25/08**	*Release 6.10 – eFORMz* - Occasionally executing batch files as post process external commands would cause a hang. This has been fixed. - The print process could hang running under Unix/Linux if the printer was offline. Project printing is now performed under a separate thread and should resolve this problem. - SQLLookup and TableLookup functions were not closing the JDBC statement handles. This was a problem when a connection was made through Minisoft's JDBC driver. This issue has since been resolved. - Log entries are now posted to the eFORMz log file when sending email without an attachment.
11	**08/13/08**	*Release 6.10 – eFORMz* - Project form constants can now be assigned unique names. The default name 'Text' can be overwritten by selecting the constant and pressing the 'F2' key (or right-click and select Edit). - Now when a cursor hovers over variables, constants, input elements or rule actions within the Form Viewer, an informational balloon will appear providing reference to the item.
10	**08/06/08**	*Release 6.10 – eFORMz* *eReader – 1.2.6* - Generate output in Zebra™ XML format. A new tab has been added to the form property dialog screen to permit Zebra™ specific field names to be referenced in order to call the proper label within the Zebra™ printers memory. A new file format option was also added to the Printer dialog boxes of the Composer, Toolkits and eReader. The previous xml output format has been renamed to Zebra XML files. - Repeating elements can now be grouped when specifying HTML within e-Direct. By starting and ending a constant element with "!{ … }!", text and elements can be inserted between these codes resulting in a repeat for all pages within the group. - Discovered a problem with the "Load Image from File using Rule Variable' action. The radio selection button would not remain set if selected. It has since been fixed. - Modified the file read process for the AS400 toolkit to read in non-standard print files. - Discovered that fonts, provided with the product (\fonts folder), were being erroneously registered to Windows and overwriting existing system fonts. As a result, if eFORMz was uninstalled, these same fonts would be deleted in the process. The registering of these fonts, during the install, has now been disabled. - Option to reference the value of a rule variable, as an image filename, to load and display an image from within the project. Previously one could only do so referencing an external filename.
09	**n/a**	*Release 6.10 – eFORMz* - Added an option to request status notifications on emails generated by e-Direct. In order to use this function, the SMTP server must be able to support delivery status notifications. eFORMz has no way to determine this. - The printer selection dialog box will only display the maximum number of printers licensed. - Replaced the MiniSpooler print utility with a customizable OnDemand Print program. The utility permits files to be renamed within a specified directory allowing the eFORMz Print Monitor to process and/or reprocess these files. Configuration changes can be made via the eFORMzPrint.ini file. The utility also provides for a method for direct printing of any file on a Windows pc. This is often useful for printing test input files and/or e-Direct generated pcl output files.
08	**07/07/08**	*Release 6.10 – eFORMz* - Modifications were made within the e-Direct module to permit Page Grouping. A new group condition tag has been added to the Print, e-Mail and Fax dialog boxes of these output processes. This feature permits page grouping based on a selected field, such as an item number, within a multi-page order. - Updated the release of Java, which accompanies the product, from version 1.5.0_15 to 1.5.0_16.
07	**06/23/08**	*Release 6.10 – eFORMz* - Modifications were made to allow for the proper sizing of both the project and viewer windows when first installed. - Additional images are now supported via the drop-down list of extensions in the file open dialog box. This list of extensions include (.bmp, .jpg, .jpeg, .gif, .png, .wbmp, .prn).
05	**06/09/08**	***Release 6.10 –*** *eFORMz* *eReader – 1.2.5* ***** NOTICE ***** ***Printer Licensing Check Now Implemented for Windows Local Toolkit*** ***** NOTICE ***** A new user interface was added to handle licensing based on the number of printers. A warning message will be issued in the eFORMz log file notifying our customers to contact their Minisoft sales representative if they purchased a license file, for the Windows operating system, supporting more than two devices. An updated license file will need to be issued if licensed over two printers. No interruption in printing will occur with this release. If your maximum printer license is 12 or less, a new "Printers" configuration tab is displayed within the Local

		Toolkit configuration screen. In addition, the printer selection dialog, shown by the browse buttons in the Print Process and Print Files dialog, will ONLY display the printers configured on the "Printers" tab. If the maximum printers is greater than 12 the "Printers" tab will not be displayed and the printer selection dialog remains as it was. When printing via the Local Toolkit, if the 'Max. Printers' in the license is below 13 then the printer name is checked against the printers configured in the "Printers" tab. If the printer name is not found, a warning message is issued (reported in the eFORMz log file). If the print process or print files is configured with a valid printer name but the name no longer appears in the "Printers" tab, then the printer in the original position is used and a warning is also issued. Each time the configuration file is read, the printer names are checked against the devices in the "Printers" tab and a record of the position is kept. If the configuration file is saved, then the above feature, redirecting to a newly configured printer will work. It also prevents problems arising from a printer moving positions in the list. *Note: Existing license files will default to 2 printers. Therefore if an extended license was purchased a new license file will need to be issued by technical support.* ~~~

		- A new facility to apply external functions to the product has been included. External functions are configured into eFORMz similar to the way pre-processors are configured (eFORMzCfg.xml). New function – Generate the checksum digit (MOD10) for eVS (ZIP-USPS Del. Conf.) barcodes.
10	**01/03/08**	*Release 6.09 – eFORMz* - The file selection in the print monitor can now contain multiple file selection criteria. The delimiter between each file selection can be a *space*, *comma*, *plus*, or a *minus*. If the delimiter is a space, comma, or plus then the next file selection goes in an 'include' list. If the delimiter is a minus, then the next file selection goes in the 'exclude' list. A data file must match one of the selections in the include list and not match any of the selections in the exclude list to be processed. For example: File select statement = PO*.DAT - PO1.DAT - PO2.DAT Files processed = All PO files, with the exception of PO1.DAT and PO2.DAT → *Special note: the "+", "-" or "," must be separated by a space before and after the symbol .* - Multiple pre-processors can now be configured within the 'Advanced Tab' of the Composer. One can also enable or disable the individual processes using the new Activate/Deactivate buttons. - Increased the size of the Project Properties dialog box and a number of its associated tabs for easier reading. - Spaces are now permitted as a search string in the 'Replace and Multiple Replace' pre-processors. - Fix made to the port monitor executable file for the 32-bit version (monset) released in 6.09.04 for Win2003 pc. - Includes the latest MS SQL JDBC driver (ver 1.2) for database retrieval. Note the new driver/url references: **New Driver/URL statements:** Driver class - com.microsoft.sqlserver.jdbc.SQLServerDriver URL - jdbc:sqlserver://$ **Old Driver/URL statements:** Driver class - com.microsoft.jdbc.sqlserver.SQLServerDriver URL - jdbc:microsoft:sqlserver://$
08	**11/27/07**	*Release 6.09 – eFORMz* - Added 'A5' as a new ISO 216 standard paper size option. - Fixed a problem with legal sized paper and rotated text. The bottom margin was not set correctly when the paper size changed. Since the bottom margin becomes the left margin when text is rotated, the text was misaligned. - Updated the release of Java, which accompanies the product, from version 1.5.0_06 to 1.5.0_13.
07	**11/06/07**	*Release 6.09 – eFORMz* - Added a new option to the Set Value tab of a Variable to permit external file selection of images. - Queue monitor variables can now be used by the Copy, Delete and Print files post -processing commands as well as within the e-Direct process. - A modification had to be made to Run.jar to accept the new format of our release number.
06	**10/25/07**	*Release 6.09 – eFORMz* - Added two new system variables: • Data File Name - returns the name of the current print file being process • Full Data File Name - returns the name and full path of the print file being process Note: processing on the AS400 will return the same value for both since the data resides in a queue. - Fixed a problem with the placement of an underline when code existed in the input file. - A new pre-processor 'Multiple Replace Occurrences of a String' was added which permits multiple search/replace string entries to intercept and change incoming data *prior to* the merge process.
05	**10/17/07**	*Release 6.09 – eFORMz* - Option to use the value of the rule variable for the file name of the image to load with a "Load Image" action. - Fix made to the port monitor executable file for the 64-bit version (monset64) released in 6.09.04.
04	**10/05/07**	*Release 6.09 – eFORMz* - Added 'word-wrap' capability to the Place Text action function of a rule. - Added new port monitor executable files (monset.exe & monset64.exe) to resolve issues w/Windows 2003. - Fixes made to edit the Table Lookup function. Occasionally the information was not being displayed properly.
03	**10/01/07**	*Release 6.09 – eFORMz* - Variables can now be added which do not have to be associated with text from within the data grid. This can be achieved by generating a new variable specifying a character length of '0'. - Added Variable selection to Form and Variable tree nodes. Defaults to no association with input data. - Added Rule selection to Form tree node - File name and Unique File Name fields added to e-Direct's Fax output menu. - Queue monitor variables (<datafilename>, <datafileext>, etc..) can now be specified on external command lines. - File extensions of ".bat" and ".sh" will automatically create text output. - Disabled items within e-Direct were being evaluated even though no output was generated. Fixed. - Added an attribute that fixed the copy count when printing from the AS400. - With past releases, if an external command line did not contain a '%' the print file name was automatically

		concatenated to the command. This has since been removed. - The 32-bit 'portmonitor.bat' file contained an old command line reference. Updated.
02	**09/19/07**	*Release 6.09 – eFORMz* - Added a new variable function 'SQL Lookup' which performs database lookups using standard SQL statements. The sql statement can be a constant or can be referenced by another variable. If there is an input parameter in the sql statement, the value of the input parameter will be the current value of the variable. The variable's value will be set to the value of the first column of the first row of the result set. *CAUTION should be used when constructing the sql statement to avoid time consuming queries.* - The existing variable function 'Lookup' has been renamed to 'Table Lookup'. This change is backward compatible with all existing projects. - Fix for Ecometry/Escalate Retail Airborne Express shipping label.
00	**08/14/07**	***Release 6.09 – eFORMz*** ***eReader – 1.2.4*** - HTML can now be specified as a file output format type. Two subfolders are automatically created that contain the form image files and any internal images referenced by the html file: \{ filename }_form_{ macro# }_images \{ filename }_images - HTML (inline) can now be placed within the body of emails generated by e-Direct. This provides for company logos, images and/or enhanced text to be specified as part of the body. - "Help Index" task bar menu item has been renamed to "eFORMz Manual" - Added several new system 'time' variables. - Addressed a problem with page length escape sequence changing the output page size. - To improve efficiency, a number of changes were made to the email code and the way images are loaded. eFORMz will also attempt to determine the image resolution. - Added support for PNG (Portable Network Graphics) files. - E-mail system errors now provide more detail information. - e-Direct will no longer create empty output files if no data pages are processed. - Ability to use font specifications for absolute typeface values. The typeface value is a combination of a base value which defines the font and a manufacturer value. Until now, eFORMz would strip out the manufacturer value. Now you can have a font specified with the absolute value rather than just the base value. - Added the 'Times Roman by Monotype' font entry to the fontspecfile - Included the Times Roman fonts in the fonts folder. - Updated our license check file utility to provide new prospects with a temporary license file that will permit a maximum page count value to be set for large volume testing. Output generated will still contain a watermark.
05	**06/28/07**	*Release 6.08 – eFORMz* - New option to exclude the timestamps from filenames generated by e-Direct print and email processes. - When opening a project, the first form in the viewer is displayed rather than the last. - Printing in "PCL" or "Color PCL" modes in Windows created temporary files which, if an error occurred, these files would not always get deleted. These temp files are no longer produced. - Multiple email addresses are now permitted in the "FROM" field matching that of TO, CC & BCC. - Modified the Windows service configuration file (*jsl.ini)* to include the reference to java print service (jps.jar). Discovered that this parameter was missing which resulted in potential print errors if the device was not in a ready state (refer to fix in release 6.6.03).
04	**06/05/07**	*Release 6.08 – eFORMz* *eReader – 1.2.3* - Resolved a time-delay issue when printing PDF output generated by eFORMz. - PDF form fill-in fields generated by eFORMz now print correctly. - First and Last page buttons added to eReader form viewer module. - Page number displayed within the eReader document viewer. - Added a new SMTP dialog box which includes the following email options: • Importance • Sensitivity • Request a read receipt • SMTP User/Password If the user entry is not blank then the connection to the SMPT host Is authenticated with the user/password configured. - On some WIndows systems temporary print files would not be automatically deleted. This has been fixed. - Element names within e-Direct can no longer contain spaces or special characters. Error dialog box will appear. - Addressed memory release issue when performing multi-pass operations (ie: e-Direct, Sorting, eFORMz doc files). - Fix to e-Direct element assignment. One can no longer add an element, as a subordinate, to another element. - New option to append ".hld" to the data file name after the file is processed by the print monitor (Local / Unix Toolkits). Previously the only options were to rename the existing extension or delete the file. New input file disposition choices are available.

		- eMail error handling has been cleaned up. - Corrected a bug in the port monitor if the capture directory went beyond 75 characters in length. Added option to enable tracing from the port configuration screen and the monitor will now track and assign its own file numbers instead of using the Windows job id, which would max out at 255. →Current port monitor users need to stop the Print Spooler service and copy 'efzMon.dll' file to their Window System32 directory. - Includes the latest revisions to many of the supported java jar files.
02	**04/13/07**	*Release 6.08– eFORMz* - A new pre-processor 'Sequential Line Marker' was added which permits inserting text to the incoming data as a line identifier. - Java search routine would always return a match found if the "search for" string was empty. This affected all binary operators and has been fixed. - Color images that use 256 colors or less now have the raster data stored as indexes to a palette. Images that use more than 256 colors will have storage requirements in bytes. Results in an overall reduction in storage usage. Existing projects will work unchanged, however, images will have to be reloaded to take advantage of the storage reduction in the project. - Right border of input field would not always print - fixed. - Null pointer exception and hang would occur if data was read in with a project that had a pre-processor configured with no parameters – fixed.
00	**03/29/07**	***Release 6.08- eFORMz*** ***eReader – 1.2.1*** - Modifications were made to permit Window's Vista HP LaserJet print drivers to produce form images. → Recommended driver for this new operating system is the HP LJ 5200L. - The Data Viewer window can now be adjusted to display data that may extend beyond the column limits of the form. This new setting can be found in the forms property dialog. The default setting is to match that of the form. - The form viewer resolution value, in dots per inch (dpi), is now displayed in the viewer task bar. - Fix for output format settings when printing to AS400 server. PCL (B/W) was reversed with PCL (color). - Correction made to the Height value in LinePrinter font within the FontSpecs.xml file. - Added a new Project Reference feature to the Local Toolkit which will allow one to perform "table-formatted" lookups on project names based on the name of the print file. The new extension for this reference file is (.efr). - Fix for Ecometry/Escalate Retail USPS shipping label and Code128A barcode. - A new option was added to project properties which specifies whether the output to xml format will be verbose or not. This results in a considerably smaller archived file ported to the eVUE database. The default is checked. - Logic was introduced to omit font elements in xml output when they also exist in a form. As a result, memory usage is reduced by almost 50%, with an additional reduction in xml output file sizes.
04	**01/12/07**	*Release 6.07* - Output generated for color pcl (.cpcl), using e-Direct, was not assigned a unique timestamp. Fixed. - Modified the page numbering sequence of output generated by e-Direct to update our archival module (eVUE). - Output generated by eFORMz sent to Windows print queues are given the name of the input printfile. At present time this will only work for "Image printing" output. - OpenType font files are now supported by appending ",OpenType" to the end of the font file name specified with the FontSpecs.xml file.
03	**10/26/06**	*Release 6.07* - Added a new (user-defined) barcode type to allow one to generate solid bars for basic bar chart usage. - If text was printed which had imbedded pcl code for proportional typeface and the spacing was then set to fixed the subsequent text would print out as Courier (default fixed typeface). Fixed. - If barcode type ZIPCODE was specified in a project prior to the name change to POSTNET (ver 6.7.00) the conversion to the new name was not automatically done -reverted to the first barcode in the list (3of9). Fixed.
02	**10/08/06**	*Release 6.07* - A 'blank' form can now be added internal to a project. A new forms display window will appear requesting either a blank form or an external pcl file. - Data placed over shaded form images, in a multi-copy project, resulted in the characters displayed as white-filled. Fixed. - Using the CNTL key to drag-n-drop a copy of an existing form within the project tree required that the project first be saved and then reopened. Fixed.
01	**09/26/06**	*Release 6.07* - Fix for backward compatibility problem. "PCL" was changed to "PCL (NONE)" – should be PCL (B/W) within the e-Direct wizard configuration.
00	**09/20/06**	***Release 6.07 – eFORMz*** ***eReader – 1.2.0*** - Added PCL color support for form Text Constants and Place Text actions when output is directed to a color printer equipped with PCL 5. Selected text can now be converted to color for enhanced reporting. - Enhanced control of constant and data color within the Viewer. - PDF output generated by e-Direct included our demo watermark even if a license file existed. This bug was introduced in the previous build (03) and has since been fixed. - Added a new file check to verify that only one copy of the Local Print Monitor or service is running. This check is

		based upon the name of the configuration file and generates a temporary file if active. The default filename is 'LocalPM_PMRunning' - Changed 'ZIPCODE' barcode to 'POSTNET' to conform to industry standard naming convention. - Added several new icons for item representation within the Toolkits and Input/Constants in the Composer - Added code to permit Newgistic's ™ SmartLabel (return label) to be made visible using Ecometry output. - To permit memory allocations to go beyond Java's maximum default setting of 512Kb, a new eFORMz.ini file was added which is user configurable. Excluding the file will revert to the default. - A Unix Toolkit was added which provides similar capabilities as the Local Toolkit. Ability to create a configuration file along with data transfers. Future enhancement will include feature to start/stop a print monitor on this platform. - 'Concatenate' and 'Insert String' functions now permit space(s) as the argument. - Collapsed variable nodes shown to have functions even when they didn't. Fixed. - Discovered that the right border of Input Fields do not always appear when printed using eReader. The temporary work-around is to take the width value and divide by 4.8. The results cannot be an irrational number. - Enabled shell association for pdf files - no longer requires path information to Adobe's Reader on Windows.
03	**08/02/06**	*Release 6.06* *eReader – 1.1.4* - Developed a work-around for printing to Windows print queues if the device status was in an 'offline' state. This became an issue with release 5 of Java. Many users experienced a 'Printer not accepting jobs' Java error message during print processing if the printer was offline. A new jar file (jps) has been added along with updates to all exec files. - Drag cursor image was being shown in project tree window after a copy was performed. Removed. - Modification made to allow for the @H UPSP delivery confirm barcode for Ecometry collate. - Added 'demo' watermark to archived output if eVUE licensing was not enabled. - Modified calls to release resources in the JDBC_ODBC bridge driver during processing.
01	**06/05/06**	***Release 6.06*** - Modified logging output for both the Composer and Toolkit. One can now set a log fence based upon the following parameters:: 0 - 3 - informative messages 4 - 7 - { unused } 8 - 11 - status messages (i.e. pages output, etc...) 12 - 15 - error and other high priority messages (i.e. version and license info) - Output generated by an eFORMz Rule will appear in the output regardless of the 'Exclude Data" form setting - Fixed a problem within the Composer's pre-processor for the find/replace option when specifying pcl codes.
10	**05/22/06**	*Release 6.05* - Added a new 'Command File' processor for the Local Toolkit. Instead of the input file selection referencing a print file(s) the selection is to a command line containing the parameters necessary to perform the eFORMz process. This option can be esp. useful on host servers, where the form and/or printer devices can often vary (ie: Unix). - Modified the tool-tip buttons in the Composer. Horizontal split now appears as { -- } where as the vertical as { | }. - Include the VSIFAX.sh in the host install. - New 'signature' definition added to FontSpecs.xlm file.
09	**05/15/06**	*Release 6.05* - Ability to read in 'form-filled' eVUE document files as input. Data is read back in as text lines delimited by CR/LF. - Modified the ListBox and TextArea input fields to include a 'Max. Output Line' entry. This sets the number of lines the input field will take when read as a data file. - Updated jsl.ini (eFORMz Windows service config. file). The previous configuration could potentially execute both the service and the toolkit causing duplicate processing. Change will only execute the monitor. - Modifications made to correct a problem with the interface to eVUE.
07	**04/14/06**	*Release 6.05* - Local and AS/400 Toolkits: when the window size is changed the components resize accordingly. - Modified the starting point of the Y coordinate for text output from 0 to .75 * VMI. Y locations of text are based upon the baseline of the text, which is the top plus ¾ of the VMI. - Fixed an underlining issue – select appropriate default typeface when font spacing is changed. - Added the ability to parse out HP-GL2 commands imbedded within input files.
04	**03/21/06**	*Release 6.05* - Added 'NOT' as a condition check.
03	**03/15/06**	*Release 6.05* - The string for the name of the file that contained the initial page number was not initialized correctly causing new projects not to save. Fix implemented
02	**03/14/06**	*Release 6.05* -Added a new pre-process interface to intercept incoming data requiring 'special' modification. Includes a new configuration file (eFORMzCfg.xml) which will contain the information on the available processor(s). This release will include three pre-processor modules: • Skip until a string (or nth occurrence of a string) or control character appears • Replace a string value with a different value • Command parsing

		Escape codes for string properties of preprocessors: \b backspace \t tab \n linefeed \r carriage return \f form-feed \\ backward slash \a<3 decimal digits> character represented by its decimal value (000-255). \x<2 hexadecimal digits> character represented by its hexadecimal value (00 - ff) - Discovered and fixed a potential problem with ignored escape codes and the multi-threading capability of the Print Monitor. - Added a new 'page number' system variable. Option to add and/or increment page or check numbers specifying a fixed starting value. Includes the ability to automatically increment this value referencing an external count file. - Variable can no longer be deleted if a Rule, Condition, Sort or applied Image exists. - Added Insert Rule capability to the popup menu of the form/data viewer. - Added code allowing input forms which contained CompoundRaster (object code which could contain raster, text, bitmap text, and barcodes) to be read and viewed properly. Note: will be displayed as text in the viewer. - Added code to parse out an escape code sequence discovered in a users form but not supported by eFORMz.
01	**02/28/06**	***Release 6.05*** - New DATABASE LOOK-UP functionality: Provide database retrieval from a table/key query with connectivity directly from the Composer. Includes a test button on the database dialog box to verify the connection. An 'empty string' is returned if: (a) the connection fails (b) a qualifying record cannot be found or (c) the value of the column is NULL - New FORMS FILL-IN feature: In an effort to provide a method by which vendors and customers can reply back using documents produced by eFORMz, we've added a new feature which allows one to generate forms with 'fill-in' elements. In doing so, the recipient of the PDF file <or> eFORMz document file (.efd) will be able to fill predefined fields for return correspondence. The following 'fill-in' elements can be added directly to an existing form(s) from the eFORMz Composer: • Check Box • Combo Box • List Box • Push Button • Radio Button Group • Text Area • Text Box Although output can be generated to PDF and read by Adobe's Reader, the full version of Adobe's Acrobat Professional is required to save these fill-in changes back to disk. The good news is that Minisoft has developed our own document reader (**eReader**) which can be downloaded at no charge from our website to view, edit and save the files generated. - One can now generate output file names using the same name as their input file (predefined set of variables). • Local monitor variables are "directory", "datafilename", "datafileext" and "project" • AS/400 monitor variables are "queue", "datafilename" and "project" *Example: C:\outputdirectory\<datafilename>.pdf"* Variables are delimited by the use of the '<' and '>' as specified in the file output name in the config screen. - Added the '-c' argument to the local print monitor permitting the monitor to run on the Unix platform w/o requesting a prompt to stop the task. If running from a command line on a pc, the '-c' will need to be added. - Made modification to pdf output so that it matched more closely that of printed output. - Added Load/Save buttons to Archive option dialog box. - If blank checksum character was produced for Code128 barcodes the character was trimmed resulting in an unreadable barcode. Fixed. - The existing .exe files would not work unless they resided in and run from the installation directory. Fixed.
01	**12/29/05**	*Release 6.04* - Fix for back-to-back variables causing overlapping data to appear when issuing Place Text rule.
00	**12/20/05**	***Release 6.04*** - Added new SORT feature with ascending/descending capabilities. Options include: - sort by form - sort by selected variable

		- Modified Unix script to include the min/max java memory requirements to execute (-Xms128m -Xmx512m) - Modified PJL parsing routine to exclude printer language code other than 'PCL' from start until Universal Exit - Modified Unix script to include full path information to allow execution outside of the /minisoft directory - Enhanced the print/output range option. Option includes selecting range of pages from start or end. - When rename selected from file selection (toolkits), the logic looked for the first extension but the file select excludes files with ".hld" as the last extension. Fixed. - Discovered that a CR/LF remained behind after HP2934A barcodes were parsed from data file. Fixed. - Reset the font selection before a new macro is created and/or at the start of a new page - Watermark symbol (demo) would appear when reading in PDF files even if license file existed. Fixed. - New definitions added to FontSpecs.xlm file. Additional entries required for specific pdf input. - Added additional code for the symbol set "2Y" barcode - Added code to permit an older PCL 4 escape sequence to be processed (affected pitch - Ecometry o/p)
04	**11/15/05**	*Release 6.03* - If a line had a variable extracted and a single character existed on the same line it would not appear, instead, it was assumed to be part of the variable. Fixed. - Fixed unnecessary prompt to adjust variable coordinates when lpi or pitch were not changed in the Composer - Data now remains in the data viewer window even if 'Exclude data' is checked, excluded from form viewer - Added 'Text' format output option - Added option to edit existing Unix project scripts - Added lock button to the form viewer window, allowing one to disable the ability to drag items
03	**11/04/05**	*Release 6.03* - Added new icons for Constant and Input fields - FILE choice removed from output type selection dialog in e-Direct wizard. Option was originally intended to generate output files for archiving to eVUE. Replaced with an automated update using 'ARCHIVE' output type. - Output element can now be deleted from e-Direct. Previously could only be disabled. - MICR and OCR info was not outputting to eVUE correctly. Fixed. - Repeating variables will appear as multiple lines when used in an e-Direct output. This will allow someone to assign a variable to a whole page then use that variable as plain text in the body of an email.
02	**10/27/05**	*Release 6.03* - Modified the way input files are selected from the Toolkit (Local & AS400) - now processed based on the file selection entry position within the configuration file
01	**10/25/05**	*Release 6.03* - Adjustment made for positioning of Input Fields in pdf output

00	**10/24/05**	***Release 6.03***
		- Full support of Ecometry spoolfiles
		- Constant Field feature
		  - text, barcodes or images can be inserted from within the Viewer window of the Composer
		  - color-code feature allowing easy identification (from Viewer tab in System Properties)
		- PDF Input Field feature
		  - text input can be inserted to produce pdf 'fill-in' files generated by eFORMz
		  - color code feature allowing easy identification (from Viewer tab in System Properties)
		- Ability to edit drag-n-drop actions, constants and input fields by right mouse clicking and selecting 'Edit'
		- Images loaded by the 'Load Image' action along with constants and input fields are now all drag-n-drop
		- Fixed a problem where the data selection was using the pitch/height value of the form and not the data
		- Barcode sizing for proportionally spaced barcodes now included in the external FontSpecs.xml file
		- New entries added to FontSpec file:
		  - for each character set (symbol set), font (typeface) and input fonts (specific for pdf data files)
		  - for barcodes - used specifically to parse barcode escape sequences
		  - for bitmap text such as MICR or OCR
		- Added 'Compress PDF output' (default) option to Output tab of System Property
		- Added 'Embed Fonts in PDF output' to Output tab of System Property
		- Fixed line printer font issue. If this font is selected within form property or place action rule, pitch & height required
		- Fixed problem when selecting source tray 0 (current) would cause page to print on separate page
		- Fixed form properties dialog would not display if the 'Exclude data' property were true
		- Fixed problem when printing completely solid raster line from form. Line would display just not print
		- Installs FontSpecs.xml file to root and /minisoft directories during AS400 host install
		- Installs ClientCfg.xml to root and /minisoft directories on AS400 and /minisoft on Unix host install
		- If FontsSpec.xml file is missing, eFORMz will use a default character set of ROMAN8

04	**9/28/05**	*Release 6.02* - A Universal Exit escape sequence in the data file that was not followed by PJL commands would cause the remainder of the data file to be processed by the PJL parsing code resulting in no data to appear – fixed - A number of internal changes made relating to how font escape codes in the data file are parsed
03	**9/23/05**	*Release 6.02* - Initial vertical grid origin was always set to 0 - now set to page's top margin

		- Resolved Translate action problem which was introduced when allowing for empty "to" characters from release 5
02	**9/22/05**	***Release 6.02*** - Removed all classpath entries from the java command line - classes are now loaded from subdirectory (/jars) • AS400 submit command and Unix script file modified to reference new command line • Added confirmation dialog to Unix install noting that pre-version 6.2 scripts need to be recreated or mod - Rotation angle (0, 90, 180, 270) can now be specified for Place Text and Barcode actions - Form would not refresh if copied using drag-n-drop - fixed
14	**9/12/05**	*Release 6.01* - The 'File' field in the 'File Selection' dialog in the AS/400 Toolkit is now an editable - Added new attribute "Soft" for font specification entry in the FontsSpec.xml file. - Added new system variable name "N/A" to be applied to rules which do not require a variable (ie: Load Image) - Change for wildcard characters in toolkit (* = 0 or more / ?=match any one character). Can appear anywhere. - Fix for "overlay on previous form" - if prior form had different form properties it would print on blank page - Added code for tray selection when specifying 'image printing' format - Added right/center adjustments for barcodes - Mods made to allow for control over # of copies and simplex/duplex processing of image printing
12	**9/07/05**	*Release 6.01* - Fixed problem with external process commands becoming suspended during run - Fixed problem with new lines being stripped from output elements - Fixed 'out-of-bounds' exception error if barcode data was empty - Grid in data viewer now configurable - includes option to omit - External commands now output to the eFORMz log file - Added a browse button for the parameter file field of Archive option - Trace option for eVUE no longer set on as default - parameter file must specified - Messages from edbLoader (eVUE) are now sent to the eFORMz log
11	**8/23/05**	*Release 6.01* - 'Disabled' output elements were being output to archive output (eVUE). Fixed. - Change of variable name is propagated through to output elements in e-Direct specs that use the variable - Resolved problem with empty element names for conditions in e-Direct specs - Added routine to read and convert e-Direct specfiles from version 5.x projects
10	**8/8/05**	*Release 6.01* - Append to log file option added to all logging configuration dialogs. New option "-a" used to append to a log file when using the command line invocation of eFORMz. - eFORMz now 'remembers' the last printer specified when sending output to print from the Composer - Default extension to .efz for the project name field of the Unix script builder - Enable the Project/e-Direct Wizard menu item if a project is opened and contains at least one form - Additional fixes made to assist with the conversion of version 5.x projects to 6.x - Added msbase, mssqlserver and msutil jar files to the default submit command in the AS400 Toolkit for MSSQL
08	**7/28/05**	*Release 6.01* - Activated new license check. Beginning with this build, the file (eformz.lic) will replace the previous (eformz.cfg) file as the confirmation for production release. Product will continue to validate if old file exists but issue warning. - Centered all toolkits - Fixed a problem with the notify action not emailing notifications during processing - Added 'Remove Job' and 'View Output' buttons to the Print Monitor window in the AS400 Toolkit - Added routines to read projects from release 5 and convert them to the new (xml) format in release 6 - Added check of variable name for valid XML characters if 'Include Variable in XML Output' is selected - Print process in Local Toolkit has been changed to allow the printer name to be manually entered - New 'internal' post processing commands have been added to Local/AS400 Toolkits (copy / delete / print files) - Post processing commands in current configuration referred to as 'external' commands - Added new dialog for selecting the post-process command if Add button is pressed when o/p process selected - Errors in post process command now considered *non-fatal (w*ill be logged but processing continues) - Updated the release of Java, which accompanies the product, from version 1.5.0_02 to 1.5.0_04
04	**7/19/05**	*Release 6.01* - Added new dialog box to o/p process in toolkits and Unix script to allow selection of a unique output file name
03B	**7/13/05**	*Release 6.01* - Modified the Java Windows service configuration file (jsl.ini) to include min/max memory allocation
03	**7/07/05**	*Release 6.01* - Reads in version 5 formatted configuration files from Local/AS400 Toolkits - The optional File Name parameter for print in e-Direct initially required a group tag – no longer necessary - Variables with the same name are no longer permitted - When saving images into project, if image already exists a prompt will appear to overwrite - Resolved 'ghost' folders and toggle switches in project tree - AS400 Disconnect will close the Toolkit upon exit (will prompt for save if necessary) - The Body field of an e-Direct email has been changed from wrap-around to multi-line text

01	**6/30/05**	*Release 6.01* - If the path for Adobe's PDF reader is not configured (for Help Index display) then a message appears - Characters with MSB set (foreign language characters) disappearing - fixed - Added new menu item on Form Menu to display form with data
00	**6/24/05**	***Release 6.01*** - Added copy settings and selection of printed pages to print dialog display - Added a disconnect menu selection for AS400 and Unix platforms - Last opened list in File and System Menu will now display up to four projects - New 'image printing' feature added. eFORMz can now print color images to any color printer configured in a Windows based environment . Feature also allows printing to non-laser type devices (ie: Deskjet / Inkjet) - Added setting to allow character height to be specified on a Variable - Ability to read *text* from data files that are in PDF format (images and other such code are ignored) - Right or center alignment, in place action, produced the wrong results if font was changed – fixed - Allow blanks to be entered in search string field of Replace function dialog - Location of Help file changed to the doc subdirectory of the current execution directory
15	**6/01/05**	*Release 6.00* - Resolved issue with source and output tray selection - Default "Save Project As" file name is the name of the currently opened project - Default save project file name for AS400 and Unix Toolkits is the name of the currently opened project - Border display problem in Viewer Tab of system properties dialog
14	**5/31/05**	*Release 6.00* - Option to automatically adjust variables when LPI or CPI settings are changed - VMI settings now available for Place Text and Barcode actions which utilize repeating variable - System date variables added - New AS400 file and directory dialogs
12	**5/12/05**	*Release 6.00* - Fixed email problem on AS400
11	**5/10/05**	*Release 6.00* - Barcode 128 (subset B) is used as default when Code128 is specified - Minor changes to host install. Delay inserted for completion message. Support additional file types. -> Includes the latest revision to mail.jar and activation.jar
10b	**5/09/05**	*Release 6.00* - Fix for barcode 128 - Included activation.jar file in host installs (necessary for emailing from host servers)
10	**5/05/05**	*Release 6.00* - Added data file download/upload for Unix - If Unix connectivity is lost because of inactivity, the connection dialog box is redisplayed - Added Unix command-script builder - Unix connection closed on project connection error - Added Unix connectivity
07	**4/28/05**	*Release 6.00* - Drag of text/barcodes in viewer stopped working after printing - fixed - Occasionally horizontal solid lines would not appear in printed output - fixed
06	**4/27/05**	*Release 6.00* - Fix for viewer split pane (flipping and adjustment problem) - Enabled the hook for the eFORMz manual from the Help Index
05	**4/26/05**	*Release 6.00* - Reduced the number of watermark images for improved print speed in demo mode - Fix for watermark image appearing in viewer - Setting conditions on form properties dialog screen fixed - Post Process command now a separate node under output process in toolkits
04	**4/25/05**	*Release 6.00* - Fix for lines, boxes and shading missing from form. - Changed .XML extension to .EFZ in the project dialog of the AS400 toolkit
02	**4/20/05**	***Release 6.00*** **Application Features** - New 'multi-pane' Viewer and Data Editor window • Horizontal and vertical display selection • Form and data adjustment toolbar for easier data and form alignment • Optional synchronized window display • Custom zoom control allowing the user to define zoom levels • View data pages fast and easily using the data Forward and Backwards buttons in the viewer

		• User configurable color text display and data selection options • Drag and drop feature allows text, barcodes and images to be positioned precisely where you want them • Expanded "rules" for data capturing and enhanced data parsing - Enhanced capabilities with Java 1.4 • Mouse scrolling • Faster processing • Optional display environments • Smaller file sizes (output, projects) - Printer control • Print output based on a specific page, range, or all selected pages - Toolkits • New 'tree' format for print monitor configuration entries • Drag-n-drop capability added to monitor • Nodes in print monitor can be enabled/disabled for testing • Expansion state of each node is remembered **Formatting Enhancements** - Data Capturing • Assign variables to selected ranges of data to allow unlimited actions Actions -> (MOVE / COPY / BARCODE / FONT …) • Assign Conditions (=, ≠, <, >, STARTS WITH, ENDS WITH, CONTAINS …) to perform comparisons. - Enhanced Data Parsing Ignore and process vast numbers of control codes such as embedded fonts, barcodes, margin settings, form feeds…
14	**1/19/05**	*Release 5.2* - Fixed problem with orientation sometimes being ignored when outputting to PDF via e-Direct
13	**12/6/04**	*Release 5.2* - Output tray setting fixed
12	**11/2/04**	*Release 5.2* - Check digit generation for USPS barcode fixed - New more accurate micr font code added (MICR13B)
11	**10/15/04**	*Release 5.2* - The disable underline escape sequence now permitted in print file. Previously excluded. - Pass-thru feature in local monitor is now able to handle file names with multiple extensions.
09	**08/24/04**	*Release 5.2* - Fixed erroneous events logged to event log on system startup or spooler reset in port monitor - Print file capture directory can now be extended beyond 40 characters in port monitor - Pass-thru printing in local monitor added (using the '-' in the project name field) - Translate string ending in only a comma (,) will cause the matched string to be deleted - Text no longer broken up when escape sequences in the middle of the line are stripped - Fix for MICR printing on the LJ8150 printer
06	**5/26/04**	*Release 5.2* - Added 'Mixed' option to Data Conversion window, bare LF (linefeeds) replaced with CR/LF in data - Shift In/Out codes removed when 'Strip Esc Codes Sequences' is checked
04	**4/15/04**	*Release 5.2* - Added auto-start parameters to print monitors running from batch - Timeout for connect to SMTP server retries adjusted - Error logging to file added to print monitor - Fixed font size reverting to '0' after creating pages in PDF
01	**2/25/04**	***Release 5.2*** - New PDF generation process - Improved quality of PDF output - Esc &l1V interpreted as form-feed - Enabled compression, resulting in smaller PDF file sizes - Removed the queue and job limit entries from the local and AS400 toolkits
50	**12/22/03**	*Release 5.1* - AS/400 configuration problem fix - Extended retry attempts connecting to SMTP host while adding pauses between attempts
48	**9/22/03**	*Release 5.1*

		- Allow Overlays in Viewer & PDF - Display MICR in Viewer - Display PDF pages as Graphic - Print Select Form and Data supports overlays - Host Install settings retained - Send Project to host, flags forms as 'modified' - Webdimension /e-Direct Update - Font 6,7 added - PDF Landscape support added - Reset Lines per page after rule - Searchable PDF Image - 300 dpi supported - Additional Typeface support - Print Direction - Vertical motion fix - XML Output with copies - Allow invalid ZBar escape codes - Drag and Drop of rules added - ZBAR data displaying in viewer - fixed - Viewer Fixes - Multiple email address (separated with ';') - Local CFG file fix - ZBar Parsing fixed - XML encoding enhanced - Ecometry Barcode issue - Zipcode/OCRA Barcode fix - Letter gothic font selection code changed to 4102 from 6(applies to rules and form properties) - Letter gothic/fixed spacing fixed - Optional suppression of link to www.minisoft.com in body of emails - Landscape in PDF problem fixed - Blank page at the end of emailed PDFs eliminated - Dialog boxes centered - Center option for rules added - Support for extended characters in viewer and PDF - Include checksum option for barcodes - Line printer font spacing fixed - Centering for proportional fonts fixed - Attachment type setting in E-Direct fixed - Email/Fax operations optimized - Added PDF option for E-Direct print output - Out of Memory errors producing PDF output eliminated - 'Strip ESC codes' option being improperly used in E-Direct - fixed - Output file names from E-Direct changed to eliminate contention - Problem in Local Monitor which caused duplicate output – fixed - Invalid escape sequences in data file eliminated - Duplex printing to pdf fixed - Base macro ID added to project properties
13	**04/07/03**	***Release 5.1*** - PDF Barcode support added - Fonts Optional Form Fix - Resize font 4/5 output - Fax Error fix - Tool-Kit Enhancements - Display Lines default=false - Rules fix for 'IF', 'Then' and 'Else' - Same Line Multiple Font change fix - Email CC/BCC fix - Check for 4.x projects - Print Italic from rules - Viewer Italic from rules added - Replace Form closes .prn after complete - 'Add rule' from Viewer no longer allows negative values - When a form or rule is deleted, all data items no longer expand

		- When a rule is deleted, all remaining rules no longer compress - Project with no pages/form and data is selected, no longer freezes pgm. - Viewer maintains location when selecting a different page - Display data file name presently opened in tree - AS400 Toolkit stores Submitjob command - Fix for Fonts less than 9 printing too large - Exclude Nulls from data file - Adjusted all fonts for viewing - FF no longer being inserted for blank pages - Optional Form Icon changed - Rules for data adjusting fixed for viewing - Remove Leading/Trailing lines changed to nodes - {Current Font} font in rule, now applies current font - Repeat Rule Option, Line spacing adjusted - Toolkit output file paths displayed - Additional Null data fixes - Postscript to ASCII added, basic support - Extra Space character removed from after LF's - Automatically selects data page - Optional Form will display on Parent form - Embedded graphics will display w/o wiping out form
00	**12/31/02**	***Release 5.0*** - Full Data Access. Added features to allow data and escape code manipulation - New Rule Wizard - allows rules to be applied conditionally - Rules can now be repeated without the need to add a new rule for each line - Multiple actions can be performed in a single rule - Rules can be disabled or enabled - Allow removal of ESC Codes - Wildcard selection added to Host Toolkits - Increased font support - e-Direct support for e-mailing, faxing, filing, and printing - PDF support - Licensing changes to eFORMz and e-Direct - Form Viewer has become interactive - Form cache for viewer
09	**12/11/02**	*Release 4.1* - fix for UPC-A barcode - fix for numeric compare w/dollar amounts - dialog box for linux would hang during login - fixed - fix for Code 128 barcode - MICR adjustments
00	**05/15/02**	***Release 4.1*** - produce PDF output (NT/Unix/AS400 platforms) - added code for Ecometry barcode (order # @ top of page – rel. 5.32) - fix applied to reset font settings after each form is printed - modified text message for spooler program to display 'submit report' - added output tray selection at the form level - removed Code128 trace code left behind from previous test - added European character set - fix to script files for Unix and HP3K servers - modified HP3k login to work w/o passwords - add LPP (lines per page) in & out to page property allowing the expansion of page length
01	**11/05/01**	***Release 3.2*** - started holding LastChar values in HoldLastChar - faster I/O for efzMailer - fixed User Name issues w/Project Send to HP (no more 'hello') - added job or filename selection to AS400pm configuration screen - faster file open/save dialog boxes - removed "Save" dialog from HP3k View SpoolFile option - made a change that may help with memory constraints on AS400 - reduce the size of the CML ACTION, PRINT OPTS columns on the AS400 Toolkit - the Composer lost track of the default directory if canceled out of open/create project ..fixed - if create new project was selected and canceled out, the 'File Already Exists' window used to appear - updated COMDLG32.OCX with newer release

		- fixed a right justify issue within the rules - fixed local monitor to delete hold file if already exists - fixes for Netprint (HP3K) - added pm options to all Print Monitors (to print, to xml, from xml to print, etc.) - added "Replace Text" rule - added eMail Support (functional) - modified for HP3K Netprint to act as PrintMonitor - modified all fonts, for all labels on all products for linux - modified local PM for Linux/Unix platforms - HP3K ToolKit added (supports NPConfig Mods, Start and Stop Job, Queue Monitor, etc.) - fixed HP3K PM table row widths - added execute on output to Local and AS400 monitors
608	**8/22/01**	*Release 3.0* - fix for Ecometry barcode (3-across) - fixed insert text rule - changed HPe3000 install from tape to CD
607	**7/31/01**	***Release 3.0*** - split jar into 3 jars - utils, printgen, eformz - renaming of java classes - OCR and Zip+4 fix - added AS400 interface / Print Monitor - fix 2 of 5 barcode (Ecometry zipcode) - fixed the MiniSpooler program to print on NT or Win2000
515	**6/13/01**	*Release 2.2* - fixed HP spool retrieval utility - improved viewer display - change FTP to send hp3.jar in place of hp3000efz.jar - improvements to hp3000 spool file access - rebuilt as400efz.jar and HP's socket listener so they are smaller - additional adjustments made to MICR font
506	**5/15/01**	***Release 2.2*** - added AS400 GUI interface - fix on host install program - added AS400 and HPe3000 spoolfile access client support - added Host Tools tab on main window - moved Send Project to Host under Host Tools tab - added Java listener capabilities for HPe3000 – requires NetPrint ver 2.28 - replace page ejects with form-feeds when processing Ecometry print files
437	**04/26/01**	*Release 2.1* - fix view data page size - added 'To Printer...' option - fixed Rotate Rule - allow XML data to include rules - fix for allowing legal/landscape form to be edited (note: still an issue with displaying from the viewer) - added support for encodings, customer formfeed (FF) and custom line per character - NEW project property screen - fix for Ecometry vertical barcodes (Airborne Express) - fix for barcode (3 of 9) - added padding for lines per page – occurs only if a value exists in lpp and data contains formfeeds - change the way eFORMz handles resets (esc 'E') – will issue formfeeds if data exists - added code for AS400 requirements - close spooler utility program when called from Composer (after printing) - made additional character spacing adjustments to bank MICR code
421	**03/12/01**	*Release 2.1* - fix for MICR font. Character spacing adjusted - more in line with standard pre-printed check output - added Windows shortcuts for Composer and Spooler during installation - increased Max Forms to 50
420	**03/01/01**	*Release 2.1* - chg 'Top Margin' to read 'Data Top Margin' in Form Property window - fix 'page eject' on Forms Property (would auto select if viewed) - increased Max Forms to 30 - rotated (SGA) labels - would overwrite data when used with pass-thru w/Rules & barcodes (fix was to ignore rotated label in data editor)
415	**02/26/01**	*Release 2.1*

		- added insert form rule / allow "|" in 'Apply Rule If' for multiple selections of data - issue new manual w/recent changes - fix for vertical scroll in tree - enlarge Composer window on startup - fix for Rule property window not opening - fix MICR spelling and change barcode rule name - better XML output w/Include Forms/PCL switches - new pass-thru options - fixed tree
403	**02/02/01**	***Release 2.1*** - fix for problems found in 400-402 relating to HP FTP transfers & SGA barcodes not printing.
326	**12/28/00**	***Release 1.2.1*** - address Linux FTP issue - fix NT forms not appearing correctly - still an issue w/graphical headings but will be resolved - address memory leak - resolved ½ line feed issue (requires the use of the Remove Line rule) - fixed issue with pass-thru printing (lines per inch was being ignored) - add code to allow ftp transfers to AS400 - add paper-tray option at the form level - added more font values and new feature for pass-thru & eFORMz barcoding - added OCR font and new MICR font (using E-13B standard)