



Lasernet 9 Changelog.

Input and Output Management

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Introduction.

This document summarizes the features and fixes included in each Lasernet 9 series software release, starting with the most recent.

Lasernet 9.15.6.

Maintenance Report

Internal Ref.	External Ref.	Area	Details	Status
375586	34018	Meta Input	Added validation to non-editable combo boxes so that functionality intended to ensure that the user selects particular list values works.	Fixed
388040	CVE-2023-38169	Server and Meta Installers	Due to a vulnerability (CVE-2023-38169) in Microsoft OLE DB Driver for SQL Server, the installers for Lasernet Server and Lasetnet Meta now install Microsoft OLE DB Driver for SQL Server 18.6.7 (instead of version 18.3.0).	Improvement

Lasernet 9.15.5.

Maintenance Report

Internal Ref.	External Ref.	Area	Details	Status
282476	23921, 31349	Meta app	A DataReader error message was sometimes shown in the desktop app, preventing a user from sending a queued document to the server for a short time	Fixed
363672	32478	FTP Input	0 byte files could not be processed by SFTP protocol	Fixed
344378	30942	Server	<div>A deadlock could force a job to fail unexpectedly with the following error message: Transaction (Process ID ##) was deadlocked on lock resources with another process and has been chosen as the deadlock victim. Rerun the transaction. [SQLAPIReader::retrieveRow]</div>	Fixed

Lasernet 9.15.4.

Maintenance Report

Internal Ref.	External Ref.	Area	Details	Status
336220	-	Web Config	Security update for jQuery from version 1.10.2 to 3.6.3	Fixed

Lasernet 9.15.3.

Maintenance Report

Internal Ref.	External Ref.	Area	Details	Status
316358	-	Dictionary Service	Enclose path to service executable in quotes to increase the security level	Fixed
318887	-	DM Upload	Enabled the use of strong crypto and recent TLS versions	Feature enhanced
315145	27740	Form Editor	Scripts in sub form mode did not run when pressing Shift+F5	Fixed
271720	-	Form Editor	A regional profile, set to inactive, would disappear from Input/Output format tabs	Fixed
315440	-	Form Editor / Engine	Swiss QR Barcode encoded incorrect value issues for amounts with a certain number of decimals	Fixed
315254	-	JobInfo Scanner	Fixed a UI issue when Extraction Mode was set to Leave	Fixed
316358	-	Lasernet Service	Enclose path to service executable in quotes to increase the security level	Fixed
315973	-	OCR Editor	Optimized speed when loading large documents	Feature enhanced
316358	-	Printer Service	Enclose path to service executable in quotes to increase the security level	Fixed
315993	28051, 28044	Scheduler Input	Service crashed after a deployment caused by a race condition	Fixed
317955	28290	Text Filter	Fixed an issue with \$0 (full match) when using 'Match once' and/or 'Set JobInfo...' options	Fixed

Lasernet 9.15.2.

Maintenance Report

Internal Ref.	External Ref.	Area	Details	Status
303186	-	Form Editor	Selecting any type of 1D barcode when the current barcode was 2D caused a crash	Fixed
305096	-	Meta app	Large input files were polled multiple times from disk	Fixed
311787	-	JavaScript	F.isFile and F.isDir returned incorrect Boolean in JavaScript	Fixed
305574	-	Printer Output	Potential fix for printing issue to network printers with restricted user rights – “Error given by system: Access is denied”	Fixed
303169	27008	SharePoint	Added support for getting throttled or blocked by SharePoint Online, when sending delete requests, because of extensive traffic to endpoint via Graph API	Fixed
313695	-	SharePoint	Original RefreshToken was mistakenly copied from configuration, overwriting any new RefreshTokens obtained on authentication. This caused login issues, typically after 90 days	Fixed
312587	-	Web Server Input	Added missing ScopedThreadModuleID information to Lasernet Server log	Fixed

Lasernet 9.15.1.

Maintenance Report

Internal Ref.	External Ref.	Area	Details	Status
303172	-	Developer	The Test Connection button in the module UI did not work properly for SharePoint modules	Fixed
294117	25435	SharePoint	Uploaded documents were randomly missing attached meta fields for Graph API, because of extensive traffic to endpoint via Graph API	Fixed
303169	-	SharePoint	Added support for getting throttled or blocked by SharePoint Online, because of extensive traffic to endpoint via Graph API	Fixed
303184	-	SharePoint	Read of SettingsRetainer (Tokens) could fail due to another thread read/writing the file, because of extensive traffic to endpoint via Graph API	Fixed

Lasernet 9.15.

Maintenance Report

Internal Ref.	External Ref.	Area	Details	Status
299438	-	Azure Storage	Service crashed when connection was mistakenly not set in module	Fixed
298114	26184	Client app	Preview was cleared when same job was present as first job in multiple levels	Fixed
298573	-	Developer	The object's name was not presented in the Script Functions category in the Validator dialog	Fixed
299442	-	Developer	Added 'Reset Layout' action in View menu	Feature enhanced
299420	26353	Outlook 365 + Exchange	There was an issue reading signed MIME mails where name was not set	Fixed
294095	25443, 25992	Scheduler	Having multiple input modules using scheduler to start jobs could, in rare scenarios, process twice instead of once	Fixed
288936	24873, 22246	SharePoint	There was an issue with retainer files and the renewal of tokens with multiple SharePoint 365 Graph API modules in the configuration	Fixed
302009	26154	SharePoint	Optimized speed for upload of documents to SharePoint by allowing multiple concurrent connections	Feature enhanced

Lasernet 9.14.4.

Maintenance Report

Internal Ref.	External Ref.	Area	Details	Status
295765	25737	Client	Fixed an issue where auto updater caused an unhandled exception when upgrading from 9.9.1 to 9.14.3	Fixed
295875	25767	Client	Improved validation coloring shift between statuses and tooltip when changing values in columns	Fixed
294645	-	Developer	Content in preview window, listed in resource view, was not updated visually before the file was re-selected, if the object was reverted or edited externally	Fixed
295901	24825	Form Editor	Fixed an issue where preview mode would crash application	Fixed
296699	-	Form Editor	There was a duplicated list of fonts in the fonts tab of the rearrange settings dialog	Fixed
297051	-	Form Editor	The 'Save As' action for the Preview dialog did not include an extension for output filename properly	Fixed
296701	25875	Monitor	Save dialog did not append selected extension when saving log	Fixed
295603	25688	OCR Editor	Fix for error in forms list when showing 'Move to Index' dialog and rows are filtered	Fixed
296507	-	OCR Engine	Added support for a list of reserved names, in add or edit mode, for OCR Field names in OCR Engine	Feature Enhanced
295696, 295904	-	SharePoint 365 Connection	Added support for login domain for OnPrem REST and 'None' prefix for URL without /sites or /teams	Feature Enhanced
295906	25773	Text Filter	Fixed broken handling of \$0 (full match) in replace expressions	Fixed

Lasernet 9.14.3.

Maintenance Report

Internal Ref.	External Ref.	Area	Details	Status
292254	-	Developer	Autoform DM Upload module JobInfos were missing in JobInfo dropdown lists	Fixed
275787	-	Form Editor	Opening PDF in Preview mode, with a form that contains specific type of SVG images rotated to 180 or 270 degrees, caused a crash	Fixed
293923	-	OCR Editor	Removed flag requirement for header+footer fields to avoid OCR Forms created in older versions being non-compatible	Fixed
293165	8562	PDF Engine	Enclosed XMP Metadata in x:xmpmeta tag when generating PDF/A for German ZugFerd format. Avoids validation failure in certain validators, even though the tag is only optional	Fixed
293680	-	Rich Text Converter	DOCVARIABLES were not replaced with Phrases	Fixed
293190	-	Tesseract OCR	PDFs that did not restore a clean graphics state caused missing OCR processed image	Fixed

Lasernet 9.14.2.

Maintenance Report

Internal Ref.	External Ref.	Area	Details	Status
288175	24772	Form Editor	String() function was incorrectly implemented when converting node-set to string (it should only return the first item, not a concatenation of all items in the node-set)	Fixed
293031	25281	OCR Engine	Output was missing after required flag was introduced in header/footer	Fixed

Lasernet 9.14.1.

Maintenance Report

Internal Ref.	External Ref.	Area	Details	Status
290865	-	Client	Improved error handling in Lasernet Client if connection to Lasernet Config Server or Lasernet Services is lost	Fixed
290769	-	Client	Identifiers did not reload when moving cursor position to another column in same row	Fixed
291681	10.2.1	Compression	There was a missing commit of Jobs causing cancelled jobs to be left behind	Fixed
286044	23643	Developer	All resource types were not included when exporting a revision from history	Fixed
291974	-	OCR Engine	There was an unhandled exception when adding a new document type in OCR Engine module	Fixed
292144	-	OCR Engine	Job would not fail properly if identifiers could not be read due to file being locked by another process	Fixed
287865	24447	PDF Merger	Merging invalid PDF caused a crash	Fixed
288873	-	SharePoint	Clicking OK when browsing subsite with nothing selected caused a crash	Fixed
288597 + 291205	24744	SharePoint	Re-authenticating caused an issue that documents became 0 bytes	Fixed
291840	10.2.1	SharePoint	Lasernet did not look for namespace and STS authentication URL when the domain was not within sharepoint.com	Feature enhanced
282737	23960	Regional Profiles	Processing a Regional Profile with non-valid settings caused a service crash; added a validation check in UI to prevent non-valid settings	Fixed
290905	-	Tesseract OCR	Added automatic fall back to full OCR in case of non-valid PDF document	Fixed
291201	-	General	Environment variable substitution did not work for Pre/Post JobInfo dialog	Fixed
285644	24171	General	Jobs failed to send log to syslog with long messages. Truncated syslog packets to 500 bytes to prevent UDP datagram from exceeding maximum length and to enable the packet to be transferred in a single IP packet	Fixed

Lasernet 9.14.

Maintenance Report

Internal Ref.	External Ref.	Area	Details	Status
280872	23706	Form Engine	Fixed a memory issue with intensive use of barcodes or images in large print job	Fixed
283435	-	License Manager	Closing the migration dialog could return an unhandled exception during a database migration for Config SQL Server	Fixed
282624	23890	Developer	Improved size of the scrollbar in the commit/show changes dialog for changes containing long XPath	Fixed
283805	-	OCR Editor	Grab data was not Fixed an issue not kept when saving AutoCapture Form as an OCR Form	Fixed
284281	-	OCR Editor	Added support for that the "Must Contain" property for Data Fields is used as an extra parameter to capture an OCR Field	Feature enhanced
282749	-	OCR Engine	Added new 'OCRAutoCapture' JobInfo when job is auto captured by engine	Feature enhanced
283750	-	OCR Engine	Validation of Identifiers added to OCR Engine did not work after releasing of job for Auto Captured documents	Fixed
284052	-	OCR Engine	Fixed reading preview JobData from wrong JobInfo causing AutoCapture Form to have no PDF	Fixed
281537	-	Outlook Mail	Added support for "Create draft without sending it", in the Outlook Mail output module, and a JobInfo "MailDraft" to overwrite the setting	Feature enhanced
282737	23960	Regional Profiles	Fixed a service crash on processing a Regional Profile with none valid settings + added a validation check in UI to prevent none valid settings	Fixed
282912 + 283274	-	SharePoint	Added support for on-premise server for Legacy REST API	Feature enhanced
282106	23890	XML Transformer Editor	Added support for showing the name of the loaded grab file with path in status line	Feature enhanced

Lasernet 9.13.4.

Maintenance Report

Internal Ref.	External Ref.	Area	Details	Status
281276	Deskpro 23761	HTTP	HTTP input module crashed when a job was read that could be null after introduction of JobInfo 'HTTPCookies' in Maintain Session feature	Fixed
281524	Deskpro 23720	JSON to XML	JSON to XML modifier arrays were not working properly in all cases	Fixed
281563	Deskpro 23732, 23934	Lasernet Config	Migrating LocalDB config to SQL database failed with an SA Exception	Fixed
282624	Deskpro 23890	Lasernet Developer	The scrollbar was missing in some situations because the column was not resized to match content	Fixed
281295	-	Lasernet Form Editor	JobInfo "DataFormat" was logged twice when a form was set to XML Input and TIFF output	Fixed
280615	-	Lasernet Form Editor	Pad option for Rearranges could, in rare scenarios, add the wrong characters to the end of the output string	Fixed
283435	-	License Manager	There was an error when showing Config SQL Server settings while migration was running	Fixed
274948	-	Outlook Mail	Outlook Mail incorrectly reported -1 unread mails. We implemented special handling for the incorrect value from Microsoft Graph API when reading number of unread mails from inbox	Fixed
283206	Deskpro 22988, 23855	PDF Engine	Barcode label was clipped in PDF Engine/Modifier in custom Paper Format	Fixed
278051	Deskpro 23452	Printers and profiles	Added support for setting PrintDocName and PrintAttachmentDocName in print queue for attachments	Feature enhanced
274949	-	Scheduler Input	Criteria column was incorrectly shown on Scheduler Input module	Fixed
277538	Deskpro 22939	SharePoint	SharePoint 365 graph connection crashed when displayName was missing (using name instead in such case)	Fixed

Lasernet 9.13.3.

Maintenance Report

Internal Ref.	External Ref.	Area	Details	Status
281207	-	Autoform DM Upload Module	Module has been updated with fix for a security vulnerability identified in Log4Net.dll	Security enhanced
230429	-	Developer	All changes disappeared from a configuration when they were not committed and the configuration was renamed	Fixed
271966	-	Developer/Module Tester	Module Tester crashed in Engine/Output modules like Tesseract because of missing PublicID	Fixed
275003	-	Form Editor	Rearranges containing a large number, with 24 or more digits, could cause a crash when rearrange was set as a number type	Fixed
269464	Deskpro 22300	Form Editor	WMF & SVG images sometimes rotated the wrong way	Fixed
276512	-	Form Editor	The 'Select Grab File(s)' dialog window closed incorrectly when canceling the information dialog	Fixed
274434	-	Form Editor	Icon for module type was missing in the destination list view	Fixed
274238	-	Form Editor	Incorrect data was added to the "UD- AdressTyp" for Swiss QR Codes	Fixed
269178	-	Form Editor	In rare scenarios, Object was still locked even though the first multi-user had closed the object	Fixed
276642	Deskpro 23087	Lasernet Client	Removed default values for instance name and credentials to avoid a time-out showing deleted items before refreshing new item	Fixed
281479	-	Lasernet Server	There was an issue in the job engine where read rights were incorrectly used instead of write rights when releasing a queue in Lasernet Client	Fixed
196753		PDF Engine	Reduced memory usage when creating PDF files	Feature enhanced
271703	-	PDF Extract	Handling extraction of meta fields that corrupted log if JobInfo value extracted from PDF included a null character	Fixed
271588	-	PDF to Text	Module failed to decode some text	Fixed
276454	-	PDF to Text	Double spaces could occur between text strings in jobs after running Tesseract OCR (Forced mode) and PDF to Text modifier	Fixed
281085	Deskpro 23759	Web Server	CVE/Vulnerability in Lasernet V9.x and lower when Client is enabled. Get command can give access to Windows O/S files	Security enhanced

Lasernet 9.13.2.

Maintenance Report

Internal Ref.	External Ref.	Area	Details	Status
270603	-	Outlook Mail	<p>The multi-request Graph API, introduced in Lasernet 10 to support attachments up to 150 mb, has been temporarily removed because larger attachments did not send.</p> <p>The single-request Graph API has been re-instated while we work on resolving quirks with the multi-request method (ID's and sent items). This will support the sending of files up to 4 mb by removing larger attachments. Now, only attachments in the Outlook Mail output module, also supported by Microsoft in their single request Graph API, will send.</p> <p>Note: We are working to restore the multi-request Graph API.</p>	Temporarily fixed
270699	-	Outlook Mail	The error message "Unable to create files" was incorrectly shown when renewing tokens (retainers) in multi-thread mode.	Fixed

Lasernet 9.13.1.

Maintenance Report

Internal Ref.	External Ref.	Area	Details	Status
268856	Freshdesk 22419	Outlook Mail	Error displayed saying that email could not be sent. "Access is denied..." or "Cannot delete mails in sent items"	Fixed
269049	-	Outlook Mail	Activating combining mode in Outlook mail module only attached document from last job	Fixed
269071	-	Outlook Mail	Introducing a validation; jobs/attachments greater than 150MB will now fail the job	Feature enhanced
267641	Freshdesk 22246	SharePoint Output	Did not generate retainer file with access token with running SharePoint 365 with Graph REST API	Fixed
268006	Freshdesk 22317	Developer/Form Editor	Lasernet 9.13 crashed when adding a modifier to a modifier event	Fixed
269858	-	Core	The SQL LocalDB backup was running when SQL Compact database is selected	Fixed
269637	-	XML Transformer Editor	Checkbox for setting Action tools pane to active is now editable	Feature enhanced

Lasernet 9.13.

Maintenance Report

Internal Ref.	External Ref.	Area	Details	Status
234994	-	Form Editor	Developer crashed when opening forms with non-existing Master reference	Fixed
229732	-	Form Editor	Scrolling text up/down did not always work, in the phrase's preview dialog, for DOCX output format	Fixed
230065	-	Form Editor	In-Place editor mode must de-activate selection of grab files	Fixed
230420	-	Form Editor	In-Place editor mode must ignore text editing of merged rearranges. Minor improvements and more error handling added to In-Place editor	Fixed
232318	-	Form Editor	The form crashed on closing the XSLX output sheet without saving	Fixed
236710	-	Developer	Export Object(s) and Add Form(s) dialogs list contained duplicates for forms and engines	Fixed
235163	-	Core	Validation checks added to the process of renaming a user, group or security role	Fixed
229501	-	Core	LocalDB backup file was not created when backup time was set to option "Scheduled" in server settings	Fixed
230321	-	Core	Crash with SQL Express DB login (SAException(NativeCode=1205, Text=Transaction (Process ID 55) was deadlocked on lock resources with another process and has been chosen as the deadlock victim	Fixed
234805	-	Client	Various fixes to the 'Show Auto Filter Row' functionality	Fixed
235506	-	Monitor	Licensed modules and general information was missing from the Licensing tab	Fixed
234659	-	OCR Editor	OCR Editor could not open documents via Client App for port numbers other than 33443 (default)	Fixed
250556	21599	OCR Editor	Port Field in OCR Editor was seen as a number and you cannot change it properly	Fixed
226226	-	Job Engine	Incorrect index was used when selecting from JobInfo table in some cases	Fixed
235032	-	HTTP	Running HTTP modifier with a Client Certificate could, in rare scenarios, cause a crash	Fixed
234907	-	OCR Engine	REST API returns an unexpected number of rows, in rare scenarios, when OCR Dictionary is activated but could not connect to DB	Fixed
236282	-	Web Client	Filenames sometimes missing in the Web Client when jobs were paused via OCR Engine	Fixed
229191	21048	Developer	An import could, in rare scenarios, overwrite existing object w/o notification	Fixed
224160	20662	Forms	PDFs formatted in A3 Landscape where PNG images were cut off at A4 margins	Fixed
234999	16049	Forms	PDF format documents with URL links included in a merged block of text	Fixed
231217	-	Forms	Linefeed before a merged block of Asian characters could cause characters to disappear	Fixed
237126	21641	HTTP	Changed error message to warning, on certificates not being marked for client auth; a certificate does not require a list of intended usages	Fixed
235379	21540	OCR	Multiple Supplier Lists files, added to multiple OCR Engines, incorrectly loaded the contents added to the first loaded OCR Engine	Fixed
222624	-	Outlook Mail	Images set to attached in HTML forms was not visible in all mail clients	Fixed
252060	21706	SharePoint	Error parsing result when SharePoint INSERT Command fails, causing Output Port to not fail Job	Fixed
234861	-	OCR	Embedded Dictionary database was not compatible with Microsoft SQL LocalDB 2017	Fixed

Internal Ref.	External Ref.	Area	Details	Status
235213	-	PDF Merger	Merge error when PDF contains a catalog with indirect reference to a Names dictionary	Fixed

Lasernet 9.12.

Lasernet Server

- Added support for SQL Server Express LocalDB as a backend for all services in Lasernet.
- Additional changes to SQL Server settings are now blocked when migration is in progress.
- Fixed a memory leak in service when deploying.

Lasernet Developer

- Optimizing position of objects in Job -> Diagram mode.
- When the JobEngine was started for the second time for the same module the app would freeze.
- Fixed a lock error when renaming an object to the same name with a different case.

Lasernet Form Editor/Engine

- Fixed an issue where the check digit property was visible in rare scenarios.
- Support for dynamics links for mail addresses in Rich Text and Spreadsheets.
- XML and JSON formats with UTF-8 BOM could not be loaded as a grab file.
- Local and Remote images are converted to embedded for XHTML output.
- The Developer application crashes when editing a fixed text opens any page type in the output.
- Fixed crash when editing newly set Rearrange / JobInfo.
- Not saved yet changes are not present in duplicate of rich text (DOCX\PDF) or xlsx output sheet.
- Text Input - Conditional Area changes from * to value when clicking on the end line.
- Fixed a potential crash when the combiner saved temporary files to disk.

Lasernet Client

- The new form type will have the default Identifiers added in editable.

- Fixed an issue introduced in 9.12 where an "Unable to reach Lasernet" error message would occur when removing scheduled jobs.
- Fixed problem with OCR Fields set as number and date.
- Releasing Jobs from Client gives an error and corrupts the database.

Lasernet OCR

- Dependencies (Boolean OCR) were missing for Body Fields.
- Fixed that AutoCapture should not always load form as a local file, but download it from the server instead.
- An AutoCapture feature improved to detect invoices vs. credit notes or other format types added to OCR Engine and OCR Dictionary.

Azure Storage

- Using the new SAS URI for Azure Storage the module is not on the list of connections.
- Fix for issues with SAS tokens.

Barcode Reader

- A new modifier added to the Input Management package to read and extract barcode names and values from jobs.

Database and SharePoint Connections

- Values for credentials will be trimmed when accepted.

File Retriever

- Fixed an issue where SFTP goes into an endless loop.

JSON to XML Modifier

- Added support for arrays in JSON format.

Outlook Mail

- Support for an email with attachments up to 150 MB.
- Fixed that "Request Read Receipt" did not work properly.

PDF Engine

- JobInfo DataFormat is automatically set to the value PDF by module.

PDF Extract

- Support for extraction of paper formats included in a PDF document, which is set as JobInfos.

PDF to Text

- Improved memory handling for property "Extract metadata".

PDF Splitter

- Added support for dynamic barcode values as splitter value for scanned PDF documents.

Printer Output

- Added support for setting the print job priority in Windows printer queues.
- Fixed an issue where Printer Failure Profile selection could not be set back to the value 'None', after a Printer Failure Profile was selected in the module.

Tesseract OCR

- Force Producers settings added to Tesseract module to force PDF document being rendered by Tesseract.
- The password assigned to a PDF document detected and will fall back to render.

Various

- A New Command-line utility is available to convert migrate OCR Dictionary from SQL Compact to SQL LocalDB.

Lasernet 9.11.1.

Lasernet Form Editor

- Creating a Pattern and connecting it to an output Region could cause a crash. This is now fixed.
- The Sharepoint 365 Graph & Azure Storage SAS connections were not selectable from the Connection tab in the 'Form Options' dialog.
- Fixed a crash in XML output mode when right-clicking on the XML node to add a new XML template.
- Fixed an issue where JobInfos for PaperHeight and PaperWidth were reversed in landscape mode.

Lasernet Developer

- Removed automatic change from 8080 to 443, in Server -> Client settings, if 'Secure' is enabled.
- Exporting objects from the Diagram view, by multi-select with the mouse, could cause modules with multiple destinations where listed multiple times in the export file.
- Fixed a crash in Diagram -> JobMode that sometimes could occur when compacting the diagram view.
- When duplicating a form the grab folder was still created even if you canceled the operation.
- Fixed an issue where the grab folder, belonging to a form, was renamed when the form was renamed.
- Renaming a form, would rename the folder in the resources view, but all files did not show up until restart of the application.

Lasernet Client

- Fix for validation changing to required for non-validated fields.

Lasernet OCR Editor

- Unhandled exception for OCR Editor -> Forms List -> Move to index.
- Fixed a crash when having multiple Check Outs in Dictionary.
- Fixed an issue reporting to log that too many sessions for the Dictionary database were open.

Meta Input

- Fixed an issue where Meta Input sometimes throws an error in the log during a service start that HTTP could not register the specified port number.

Mail Input

- IMAP folder names did not support Danish characters such as “æøå”.

JSON to XML + Form Engine

- JSON files with UTF-8 BOM were not supported.

HTTP Output

- Fixed an issue where URL parameters with true UTF-8 encoding were not supported.
- Fixed an issue where the filter for the list of certificates in the CertStore only included certificates suited for servers (like Web Server TLS certificates).

Printer Output

- Added support for setting priority level parameters in a job printed to the Windows printer queue.

PDF to TEXT

- Improved extracting text from more complex PDFs.

FTP Input

- Fixed an issue where the sFTP protocol also tries to download a folder and not only files.

Lasernet 9.11.

Lasernet Config Server

- Fixed an issue where the description for an existing user name or group, added to the Configuration Server, could not be changed.

Lasernet Portal Server

- Ignore failing key availability check when selecting certificates that use another key algorithm than RSA or DSA key.

Lasernet Form Engine

- Fixed an unintended detection of a none existing phrase during template import of an MS Word document by throwing the error "getSheetPhraseUse called with NULL GUID".

Lasernet Form Editor

- Fixed a crash caused by a stack overflow when running large CSV jobs (100+ MB) through a CSV input form.
- Fixed an issue where specific PNG/JPG images were not present in MS Word output format.
- Fixed a backspace key usage issue, causing a crash, in in-place edit mode for Fixed Text objects.
- A new feature has been introduced for managing grid lines, horizontally, vertically or hidden and added to the chart settings.

Lasernet Developer

- An option to exclude grab files is added to a new pop-up dialog during export and import of a full configuration.
- Fixed an issue where the input form format in the list of forms, after migration from an older version, figured as N/A instead of the original input format type
- Fixed an issue where an incorrect form type figured in the list of a form in specific cases for PDF Filler Forms.
- Changed Log Directory on server settings to be empty with a placeholder when using default log location.

Lasernet Client, Meta and OCR Editor

- Added support for preview of PNG and JPEG formats.
- Added the 'Reset Layout' button to Misc. options in Lasernet Client and Lasernet OCR to reset layout and position for docker windows.
- OCR Fields now have their own default band in the column header named OCR.

Lasernet OCR Engine

- Auto capture is a new feature to automatically capture OCR fields by using the OCR Dictionary and built-in AI.

Azure Storage

- Fixed a critical issue that stops the Azure Storage module to save and read jobs on the last day of a leap year (December 31st 2020). End-users running Microsoft Dynamics 365 with the Lasernet Connector or an Azure Storage account must update the Lasernet Server to Lasernet 9.11 or higher before 31st December 2024.

Database Connection

- Fixed an issue with connection testing for Azure SQL Server.

DM Upload

- DM Upload module for Autoform DM are added to the Formpipe Lasernet installer and will replace the existing DM Archive module, which no longer will be supported from the next major version (Lasernet 10).

Google Cloud Printer

- The Google Cloud Printer service is not longer supported by Google, from the end of 2020, and the module is therefore no longer available in Lasernet.

Outlook Mail

- Added a possible workaround when Graph API incorrectly returns -1 as the number of attachments in the email header request.
- Fixed an issue where the new access token was not used, after adding a new module when browsing for folders in the UI.

PDF Engine

- Added support for Thai characters.

Tesseract OCR

- New module released in the Input Management Package for optical character recognition.

Webserver

- Fixed an issue in Web Server -> Web Service byte array results from array results.

SDK

- Added support for adding custom buttons to modules developed via SDK.

Lasernet 9.10.2.

Lasernet Form Editor

- Fixed a missing combobox to select JobInfo for the "Attachment JobInfo" option in the Sheet Option -> XHTML settings for XHTML output format.
- JobInfo Criteria for output destinations now functions for JSON input format.
- The Form Engine can now process XML input jobs that included comment tags in XML structure like `<!--This is a valid comment. -->`.

OCR Engine

- Added database support for multiple OCR Engines running on the same server for saving of statistics for processed OCR Forms which were introduced in 9.10.0.

Lasernet 9.10.1.

Lasernet Developer

- Fixed a ZIP file entry error preventing exported modules and configurations from being imported in older versions.

Google Drive

- Upgraded an internal web browser used for authenticating Lasernet to Google Drive.

Dropbox

- Upgraded an internal web browser used for authenticating Lasernet to Dropbox.

Lasernet 9.10.

Lasernet Server

- Improved the deployment method of objects to the server, to avoid lock issues caused by third-party tools such as Anti-Virus, backup tools and Windows Indexing Services.
- Added retry logic in the connection to Azure SQL in case of transient faults, caused by the Azure infrastructure having the ability to dynamically reconfigure servers when heavy workloads arose in the SQL Database service, preventing the Lasernet service to temporary connect.

Lasernet Developer

- Added support for loading certificates from the binary JobInfo.
- Added support for Windows environment variables in module parameters (similar to JobInfo substitution) by adding a % sign as prefix/suffix before and after the environment variable name.
- Added support for multiple selection of grab files in the Revert dialog box.
- Added support for auto-selected grab files in the Commit dialog box, if they are added or modified and attached to a form selected for commitment.
- Any node, in the Commit/Revert dialog having added or modified objects, are now extracted by default.
- Fixed minor issues for the ordering of multiple item line names configured in the OCR Engine module.
- Fixed an issue when pressing CTRL-F in the PDF preview window.

Lasernet Form Editor

- We now show a SubForms preview as a thumbnail for quick access.
- Line height support in Form Editor -> XHTML-StyleSheet.
- Additional details for Master Sheet are added to the detail view in the Lasernet Developer -> Form list.
- New "UTC Date and Time" format has been property added to the Node Template Properties for XML and JSON output elements.
- New JobInfo for "NumberOfPages" in DOCX and PDF output documents, created by the Lasernet Form Editor -> Rich Text, is now created by the Form Engine.

- Extensions for EDI and XLSX grab files are now aligned to the format of the content.

Lasernet Monitor

- Search action is optimized for large log files.

Lasernet OCR Editor

- Added a feature where hit rate for the number of captured OCR Fields are added to a new statistic counter that can be accessed from the Form List dialog in the Lasernet OCR Editor.
- Fixed an issue when showing multi-selected OCR Fields in item lines by using a rubberband
- Some Danish characters looked blurry after the introduction for rendering of Asian characters. This is now fixed.
- The Wizard did not always work as expected when mapping the second OCR Field via the tool bar.
- The number field did not always prompt for number format on the line level.
- Fixed an exception that could occur in rare cases when Cancel was selected from the Wizard.
- Optimized the presentation of parameters and values in the Lasernet OCR Editor -> Property Editor.

Lasernet PDF Filler Form Editor

- There is now support for PDF documents stored as an external resource for PDF Filler Forms.
- Extended copy grab file functionality has been added when opening external grab files on disk.

Lasernet XML Transformer Editor

- Extended copy grab file functionality has been added when opening external grab files on disk.
- Line numbers added to the XML input and output views.

Lasernet Meta

- There is now support for field validation across values in meta fields.

Azure Storage

- Added support for using SAS Tokens as a connection string.

HTTP

- Changed the default 'Response in' to be JobData (and not Nowhere), when the default verb is GET for backward compatibility.

Outlook Mail

- Potential fix for a service crash caused by no connectivity in DNS lookup.

PDF Merger

- Added support for including all the file attachments from the incoming merged PDF documents into the final merged output PDF document.

Tesseract OCR

- New **beta** module for Optical Character Recognition in images in PDF/TIFF documents is now introduced for resellers only.

Web Server

- HTTPStatusCode and HTTPStatusText support for Web Service -> REST and Web Server Preview.

Installer

- Microsoft SQL Server 2017 LocalDB is now installed in silent mode during the installation in the backend for a statistic tool in the input management solution. The MS LocalDB will soon replace Microsoft SQL Server Compact as the default database backend for all services.

Lasernet 9.9.2.

Lasernet Server

- Fixed a SQL statement for date handling in service running on servers with German as local set language.
- Fixed a queue combiner issue caused by an exception in the database.
- Fixed the server not retrieving a new patch/deploy if the connection string to the existing SQL database was invalid.

Lasernet Form Editor

- Fixed an issue with a missing link to the Master Sheet after export/import of forms that contained a region in the conditional area.
- Memory usage optimization when rendering EMF.
- Fixed a Base64 issue not being able to render and show encoded GIF images.
- Additional UI controls are now disabled when more than one element is selected in the Edit Rearrange dialog.
- Text combining options button is removed from criteria dialog for XML input forms.
- Fixed an unexpected behaviour on cancelling editing in criterion expression editor.
- Changing the state of “Static” EMF subform option did not prompt for save pop-up when closing form without saving. This is now fixed.
- XLSX sheet name jobinfo substitution support.
- New filter selection tool in Pattern and Rearrange docker window.
- The focus of all objects assigned to a pattern can now be shown when a pattern is selected.
- There is now CSS styling support for rearranges containing HTML.
- We have added support for SVG as vector-based graphics.
- You can now select and run server-based JobInfos in UI.
- The focus for cursor in Find dialog can now be set.
- Fixed the column selection tool for Patterns and Rearranges dialog did not work.
- New feature to continue a table to the end of the conditional area when “Show even if no data” is true and if no data is displayed on the page.
- Fixed a “Not” expression that didn’t work properly for Rearrange objects when a JobInfo criteria was included as a part of the expression.

- Added a new feature to set up multiple conditional areas for label printing on a page.
- Fixed an issue where PDFs with hyperlinks had broken links in rare scenarios.
- Fixed a rare crash in Form Engine in sheets with many rearranges when criteria was included.
- Fixed a rare issue when painting shapes assigned to an instance qualifier in a region.
- Fixed an issue in the Grab JobInfos dialog where values were written right to left instead of left to right when adding a new JobInfo.
- Fixed disappearing text on the background bitmap when rendering transparent images.

Lasernet Developer

- Fix for exporting objects with . (dot) as part of the export name.
- Online Error Logging support is now removed because of a critical service stop in rare scenarios during service start.
- Fixed an error message when attempting to export objects and the Database Command references a non-existing connection.
- Fixed an issue with drag-and-drop of a job event destination to another module.
- Added support for download of server grab files from any module in test mode.
- It is now not possible to select commit folders of all grab files if you check a single grab file first.
- Fixed an issue for import of forms to multiple Form Engines.
- Grab files without an extension are now visible for wildcard *.*.
- Grab files are no longer imported when migrated to Lasernet 9 from an earlier version.
- Thumbnail support added to SubForms.
- When a configuration with a deleted and not committed resource file was exported, an error message was displayed. This has now been fixed.

Outlook Mail

- We have fixed an error which occurred where polling mails in folders other than Inbox in the Shared Mailbox.
- There is now support for incoming emails that contain a null character in the email subject instead of an empty string.
- We have fixed an UTF-8 issue in mail properties.

- We have added support for pooling the shared mailbox.
- Fixed a critical issue where more than 10 emails in one poll were being read.
- Fixed a minor error in the log when sending email successfully due to Microsoft changing the response content-type.

Script Editor

- An object in the script would return an empty filename after a call to open() in unit tester. This is now fixed.

CSV to XML

- Fixed a memory leak when processing CSV input to output.

Lasernet Config Server

- When editing the description for a configuration file, it was not saved. This is now fixed.
- We have optimized the speed in the Configuration Database to prevent a time-out in Lasernet Developer caused by many commits and large history.

Lasernet License Manager

- Clicking the 'Config SQL Server' button when LnConfig wasn't installed resulted in a crash. This is now fixed.
- Licenses containing a lot of modules that may exceed the maximum transfer size of the License Manager are now prevented.

Lasernet SQL Editor

- There is now a fix when asking about a local/embedded connection whilst adding a new database connection from SQL Editor.

Lasernet Server, Developer and Client apps

- Fixed a critical issue preventing Lasernet Server, Developer and Clients to run on a leap day.
- Scheduler Input and scheduling of jobs in any module caused a crash on a leap day. This issue is now fixed.

Lasernet Form Engine

- Fixed a crash in Form Engine/Service caused by overlays loaded from the script when the overwrite parameter was set to 'true'.

JSON to XML

- There is now a new module to convert from a JSON to an XML format.

Azure Service Bus

- Multi-threading is now supported.
- Polling is now used instead of "brokered connections" when fetching messages.
- Added support for inserting a JobInfo substitution syntax as the Connection String in the ASB module.

FTP

- We have added an option to turn off FEAT for FTP(S).

PDF Splitter

- Splitting a PDF file did not work in v9.8. This has now been fixed.

JavaScript

- Added static conversion from hex string to byte-array for Hash class.
- New function to add a static EMF Subform in Lasernet Form Editor via JavaScript.

PDF Engine

- Fixed PDF/A validation error in XML metadata CreatorTool.
- Fixed disappearing text on the background bitmap when rendering transparent images.

XML Signer

- Fixed 'Module Not Found' when adding XML Signer in diagram mode.

Other

- The download URL did not work via browser for client software. This is now fixed.

Lasernet 9.9.1.

Lasernet Form Editor

- Fixed an issue with a missing link to Master Sheet after export/import of forms that contains a region in the conditional area.

CSV to XML

- Fixed a memory leak when processing CSV input to output.

Outlook Mail

- Support for incoming emails which contain a null character in the email subject instead of an empty string.

Lasernet 9.9.

Lasernet Config Server

- When editing the description for a configuration, it was not saved. This is now fixed.

Lasernet Form Editor

- Added support for XLSX sheet name jobinfo substitution.
- Added a new filter selection tool in the Pattern and Rearrange docker window.
- All objects assigned to a pattern when a pattern is selected is now in focus.
- CSS styling support for rearranges containing HTML.
- Support is now available for SVG as vector-based graphics
- Select and run server-based JobInfos in the UI.
- Set focus for cursor in the Find dialog.
- The column selection tool for Patterns and Rearranges dialog is now functioning as it should.
- We have added a new feature to continue a table to the end of the conditional area when "Show even if no data" is true and if there is no data on the page.
- A "Not" expression didn't work properly for Rearrange objects when a JobInfo criteria was included as a part of the expression. This is now fixed.
- We have added a new feature to set up multiple conditional areas for label printing on a page.
- Fixed that PDF with hyperlinks in rare senarios could have broken links
- Fixed an issue where in rare scenarios, PDF with hyperlinks could have broken links.

Lasernet Server

- Fixed a SQL statement for date handling in service running on servers with German as the local language.
- Fixed a queue combiner issue caused by an exception in the database.
- Fixed the server not retrieving a new patch/deploy if the connection string to the existing SQL database was invalid Lasernet Form Editor.

- Fixed an issue with a missing link to Master Sheet after export/import of forms that contained a region in the conditional area.
- Memory usage optimization when rendering EMF.
- Fixed a Base64 issue not being able to render and show encoded GIF images.
- Additional UI controls are now disabled when more than one element is selected in the Edit Rearrange dialog.
- Text combining options button is removed from criteria dialog for XML input forms.
- Fixed an unexpected behavior on canceling editing in the criterion expression editor.
- Changing the state of the "Static" EMF subform option did not prompt for saving pop-up when closing form without saving.
- XLSX sheet name jobinfo substitution support.
- New filter selection tool in Pattern and Rearrange docker window.
- Show focus of all objects assigned to a pattern when a pattern is selected.
- CSS styling support for rearranges containing HTML.
- Support for SVG as vector-based graphics.
- Select and run server-based JobInfos in UI.
- Set focus for the cursor in Find dialog.
- Fixed that column selection tool for Patterns and Rearranges dialog did not work.
- New feature to continue a table to the End of Conditional area when "Show even if no data" is true and if no data on the page.
- Fixed an issue where a "Not" expression didn't work properly for Rearrange objects when a JobInfo criterion was included as a part of the expression.
- Added a new feature to set up multiple conditional areas for label printing on a page.
- Fixed that PDFs with hyperlinks could have broken links in rare scenarios.
Fixed a rare crash in Form Engine in sheets with many rearranges with criteria.

- Fixed a rare issue when painting shapes assigned to an instance qualifier in a region.
- Fixed an issue in the Grab JobInfos dialog writing values right to left instead of left to right when adding a new JobInfo.
- Fixed disappearing text on the background bitmap when rendering transparent images in Lasernet Developer.
- Fix for exporting objects with . (dot) as part of the export name.
- Online Error Logging support is removed, because of a critical service stop in rare scenarios during service start.
- Fixed error message when attempting to export objects and the Database Command references a non-existing connection.
- Fixed an issue with drag and drop of a job event destination to another module.
- Added support for download of server grab files from any module in test mode.
- Fixed that it was possible to select commit folders of all grab files if you check a single grab file first.
- Fixed an issue for the import of forms to multiple Form Engines.
- Fixed an issue where grab files without an extension were not visible for wildcard *.*.
- Grab files are no longer imported when migrated to Lاسernet 9 from an earlier version.
- Thumbnail support added to SubForms.
- Fixed an issue where the export of configuration with a deleted and not committed resource file would cause an error message in Outlook Mail.
- Fixed an error in polling mails in folders other than Inbox in Shared Mailbox.
- Support for incoming emails that contain a null character in the email subject instead of an empty string.
- Fix for UTF-8 issue in mail properties.
- Added support for pooling shared mailbox.
- Fix for critical issue reading more than ten emails in one poll.

- Fixed a minor error in log when sending email successfully due to Microsoft changing response content-typeScript Editor.
- Fixed an issue where file object in the script would return empty filename after a call to open() in the unit tester.

CSV to XML

- Fixed a memory leak when processing CSV input to output Lasenet Config Server.
- Fixed an issue where editing the description for a configuration was not saved.
- Optimized speed in the Configuration Database to prevent a time-out in Lasernet Developer caused by many commits and large. history Lasernet License Manager.
- Don't show 'Config SQL Server' button when LnConfig isn't installed (clicking it could cause a crash).
- Prevent that licenses containing a lot of modules may exceed the maximum transfer size of the License Manager Lasernet SQL Editor.
- Fix for asking about local/embedded connection when adding a new database connection from SQL Editor Lasernet Server, Developer and Client apps.
- Fixed a critical issue preventing Lasernet Server, Developer and Clients to run on a leap day.
- Fixed an issue where Scheduler Input and scheduling of jobs in any module caused a crash on a leap day Lasernet Form Engine.
- Fixed a crash in Form Engine/Service caused by overlays loaded from script with overwrite parameter set to trueJSON to XML.
- New module to convert from JSON to XML formatAzure Service Bus.
- Multi-threading support.
- Use polling instead of "brokered connections" when fetching messages.
- Added support for inserting a JobInfo substitution syntax as the Connection String in the ASB moduleFTP.
- Added option to turn off FEAT for FTP(S)PDF Splitter.
- Fixed an issue where splitting a PDF file did not work in v9.8.

Lasernet Developer

- Added support for download of server grab files from any module in test mode.
- Fixed an issue where it was possible to select commit folders of all grab files if you check a single grab file first.
- Fixed an issue for import of forms to multiple Form Engines.
- Grab files without an extension were not visible for wildcard *.* This is now fixed.
- Grab files are no longer imported when migrated to Lasernet 9 from an earlier version.
- Thumbnail support added to SubForms.
- Export of configuration with a deleted and not committed resource file would cause an error message. This is now fixed.
- Fixed a crash caused by in-place editing (F2) in module objects Lasernet Form Editor.
- Fixed an issue with duplication of the form containing a sheet. Fixed an invalid behaviour for in-place editing (F2) of merged rearranges Lasernet Engine
- Fixed a critical service crash caused by an extreme usage of memory in Lasernet Form Engine version 9.6, 9.7 or 9.8, when processing large spool jobs (1,000 pages or more) with TEXT as input format Lasernet OCR.
- Fixed a crash when selecting an object in an OCR Form without having a temporary stored copy of the PDF document Lasernet EMF Printer Driver.

Lasernet OCR Editor

- List of languages for the Understand tool are now sorted in alphabetical order.
- Fixed the error "Unable to cast object of type" in the property editor when selecting value of a Criteria after editing the value of the OCR field.
- Fixed a problem with body lines in some cases when having multiple line types.

OCR Engine module

- We have removed the linetype in settings deleted connected OCR fields, now they will be unlinked only.

JSON to XML

- New module to convert from JSON to XML format.

Sharepoint

- Support for Graph API.
- Support for sharing publicly.

OneDrive

- Support for Graph API.
- Support for sharing publicly.

Azure Service Bus

- Multi-threading support.
- We now use polling instead of "brokered connections" when fetching messages.
- Added support for inserting a JobInfo substitution syntax as the Connection String in the ASB module.

FTP

- Added an option to turn off FEAT for FTP(S).

Long-Term Archive

- Support for uploading metadata without an attachment.

PDF Splitter

- Splitting a PDF file now functions in v9.8.

JavaScript

- Added static conversion from the hex string to bytearray for Hash class.
- There is a new function to add a static EMF Subform in Lasernet Form Editor via JavaScript.
- Added static conversion from hex string to byte-array for Hash class.

- New function to add a static EMF Subform in Lasernet Form Editor via JavaScriptPDF Engine.
- Fixed PDF/A validation error in XML metadata CreatorTool.
- Fixed disappearing text on the background bitmap when rendering transparent imagesXML Signer.
- Fixed 'Module Not Found' when adding XML Signer in diagram modeOther.
- Fixed that download URL did not work via browser for client software.

Lasernet 9.8.

Outlook Mail

- Fixed an issue for UTF-8 in mail properties.

Lasernet Server

- Fixed a queue combiner issue caused by an exception in the database.
- Fixed an issue where the server could not retrieve a new patch/deployment if the connection string to the existing SQL database was invalid.

Lasernet Form Engine

- Fixed a crash in Form Engine/Service caused by overlays loaded from the script when the overwrite parameter is set to true.

Lasernet OCR Editor

- Added support for moving form(s) to another index when filtering is applied.
- Fixed an issue where the properties dock window wasn't being shown after an upgrade.
- There is now a fix for language being set repetitively when Dictionary was disabled.
- Fixed an issue when the Wizard was not starting with the OCR Field, after selecting a header/footer field in Coverage list.
- Added support for multi-line edit of text for Criterion and OCR Field.
- You can now search backward for OCR fields, when having a body area.
- Scrolling is now stopped at the first result in the body when resizing the field.
- Fixed an issue where the Output XML did not take greed into account for data fields linked to OCR fields.

Lasernet OCR Engine

- The current job is now used for script validation.

Outlook Mail

- Added support for pooling shared mailbox.

PDF Engine

- Fixed PDF/A validation error in XML metadata CreatorTool.

XML Signer

- Fixed 'Module Not Found' when adding XML Signer in diagram mode.

Lasernet Configuration Server

- Optimized speed in the Configuration Database to prevent a time-out in Lasernet Developer caused by many commits and large history.
- Fixed that servers, incorrectly added with a "/" character, could not be removed

Lasernet Server

- Fixed a queue combiner issue caused by an exception in the database.

Lasernet Form Editor

- Fixed a rare crash in Form Engine in sheets with many rearranges with criteria.
- Fixed a rare issue when painting shapes assigned to an instance qualifier in a region.
- Fixed an issue in the Grab JobInfos dialog writing values right to left instead of left to right when adding a new JobInfo.
- Fixed disappearing text on the background bitmap when rendering transparent images.
- Support for setting Master JobInfos, which are inherited to other sheets, in JobInfo dialog
- Support for SVG files as image format. The SVG files will be rendered as bitmap and not vector graphics
- Rich Text Editor: Added support for embedding fonts and creating smaller PDF documents

- Rich Text Editor: Fixed that hyperlinks in PDF documents were not underlined when added to a text box
- Rich Text Editor: The "New window" setting for hyperlinks in RichText/PDF did not work in HTML browsers
- Rich Text Editor: Some fonts in PDF and DOCX output were emphasizing differently
- Hyperlink in RichText - PDF New window settings not working from browsers
- Added the ability to deactivate a tag path (XPath & JPath) already assigned to a XML & JSON Rearrange
- Fixed a font width issue for monospace fonts
- Hyperlink in RichText - PDF New window settings not working from browsers
- Support for the EDI DESADV format with CPS section (Consignment Packing Sequence) on line level
- The expression evaluator evaluation for form criteria returned a wrong result for specific cases
- A new setting in Page Setup to activate JobInfos for PaperWidth, PaperHeight and Orientation
- Copy/paste of global subforms objects in sheets does not create a new instance of the object anymore, but will inherit the settings from the original subform object
- Fixed an issue where text could be missing in overlays after migration for older version
- Fixed a crash when adding a new pattern to form created in Lasernet 7 with a corrupted pattern

Lasernet License Manager

- The 'Config SQL Server' button no longer displays when LnConfig isn't installed (clicking it could cause a crash).
- We have prevented licenses containing a lot of modules from exceeding the maximum transfer size of the License Manager.

Lasernet SQL Editor

- We have fixed an issue for asking about local/embedded connection when adding a new database connection from SQL Editor.

Outlook Mail

- Fixed a critical issue when reading more than 10 emails in one poll.
- Fixed a minor error in the log when sending emails successfully due to Microsoft changing response content-type.

PDF Engine

- Fixed disappearing text on the background bitmap when rendering transparent images.

Lasernet Server, Developer and Client apps

- Fixed a critical issue preventing Lasernet Server, Developer and Clients to run on a leap day.
- Fixed an issue where Scheduler Input and scheduling of jobs in any module caused a crash on a leap day.

Lasernet Developer

- Fixed a crash caused by in-place editing (F2) in module objects.

Lasernet Form Editor

- Fixed an issue with duplication of the form containing a sheet.
- Fixed an invalid behavior for in-place editing (F2) of merged rearranges.

Lasernet Engine

- Fixed a critical service crash caused by an extreme usage of memory in Lasernet Form Engine version 9.6, 9.7 or 9.8, when processing large spool jobs (1.000 pages or more) with TEXT as input format.

Lasernet OCR

- Fixed a crash when selecting an object in OCR Form without having a temporary stored copy of the PDF document.

Lasernet EMF printer driver

- Fixed a crash in the printer driver when processing a printer escape code.

Lasernet Form Editor

- Fixed a crash when adding a new pattern to form created in Lasernet 7 with a corrupted pattern.

Lasernet Client

- Fixed an issue preventing the application to start.
- Fixed an issue preventing the application from starting Lasernet XML Transforme.
- The XPath for an XML Transformer form criterion was not handled as expected for XML attributes Lasernet OCR Editor.
- Fixed an issue where the relative position for a Data Field was not always in the expected position after moving a connected OCR Field to a new position.
- Support for toggle (Shift-left mouse click) between OCR Criteria and OCR Field added to the same position.
- Support for delete Exception assigned to a Data Field in the body.
- The ScriptEditor collapsing in the Edit Form Modifier dialog is fixed.
- Fixed an issue where an overlay was published on non-generated pages, in viewing mode, even when criteria was not true.
- Fixed that only supported tools in the toolbar for Rich Text Editor are accessible when switching from XLSX to DOCX sheet.
- Added support for enhanced numbers of Form Criteria.

- Fixed missing CRLF after the last line when splitting pages in Form Engine.
- Fixed an XHTML Rearrange issue not showing the HTML header elements properly.
- Import Overlays will now suggest the removal of 'Microsoft Word - ' and the extension from the filename for an overlay upon creation.
- The navigation to a specific page number, in EMF/PDF output sheets, has been improved if a sheet contains many pages.
- The Modifier criteria page has been reworked and improved to have unlimited criteria.

Lasernet OCR

- Fixed an issue preventing the application to start because of a missing folder in the installation package.
- Fixed an issue when adding new fields to the OCR Engine.

Outlook Mail

- Fixed an issue causing the service to crash if a path was added to the Process Mail Folder property.

Lasernet Input Management

- When a document is loaded, it is analysed and an auto-detection of the language labels will run. Number and date formatting for the specific country is detected and will help the user to convert the incoming format to a readable number and date format for the OCR Engine and workflow systems.
- Object boxes, assigned to OCR Form, are now visible in the PDF preview window.
- Property settings are now moved from the ribbon bar to a new docker window, which is always visible.
- A new setting in Options to turn Auto detect language on/off.
- A new setting in Options to Autorun Understand functionality when a new document is loaded in the Lasernet OCR Editor. It activates the auto-selection of objects, based on Dictionary rules, for the specific language if available and activated in the settings of the OCR Engine.
- The Set Zone property includes new values, Row Start and Row End, to specify an even more accurate search zone.

- You can now set values for Header Size and Footer Size to remove the selected header and footer area for middle pages in a document.
- In the properties of the OCR Engine, a new property called Item Type is used to assign an OCR Field to an Item Line.

Lasernet Server – Client/OCR Engine Editor/OCR Dictionary/Meta

- SSL encryption with a server certificate is now supported.

Lasernet Developer

- Added support for a binary copy of JobInfos in JobInfo dialog.

Lasernet Form Editor and Engine

- Support for importing a Dataset, created by Lasernet, as a template in sheets with Dataset as output format.

XML, JSON and EDI Subforms

- You can now create global or local subforms for such output formats as XML, JSON and EDI for any of the supported input formats.

Lasernet Configuration Server

- Servers, incorrectly added with a "/" character, could not be removed. This is now fixed.

Lasernet Developer

- Known issues fixed when migrating older configurations to Lasernet 9.
- Fix for copy/paste using UTF-8 in names for inline scripts.
- Fix for toggle show of inactive forms in thumbnail mode.
- Grab files is as default no more selected when committing objects.
- A warning will no longer appear in the deployment dialog about none-committed grab files.
- Added export of objects + files support from specific revision to the history dialog.
- Added Security Profiles support including criteria for Security Roles.
- Known issues fixed when migrating older configurations to Lasernet 9.

- Fix for copy/paste using UTF-8 in names for inline scripts.
- Fix toggle for showing inactive forms in thumbnail mode.
- Grab files are not selected by default when committing objects.
- A warning will no longer appear in the deployment dialog about non-committed grab files.
- Added export of objects + files support from specific revision to history dialog.
- Added Security Profiles support including criteria for Security Roles.

Lasernet Form Editor

- Support has been added for setting Master JobInfos, which are inherited to other sheets, in JobInfo dialog.
- Support for SVG files as image format. The SVG files will be rendered as a bitmap and not vector graphics.
- Rich Text Editor: Added support for embedding fonts and creating smaller PDF documents.
- Rich Text Editor: Fixed an issue where hyperlinks in PDF documents were not underlined when added to a text box.
- Rich Text Editor: The "New window" setting for hyperlinks in RichText/PDF did not work in HTML browsers. This is now fixed.
- Rich Text Editor: Some fonts in PDF and DOCX output were accentuated differently.
- Rich Text Editor: Target frame setting is removed from Hyperlink dialog for DOCX/PDF as output formats, since the feature is not supported by the standard PDF.
- Hyperlink in RichText – The PDF New window settings were not working from browsers. This is now fixed.
- Added the ability to deactivate a tag path (XPath & JPath) already assigned to an XML & JSON Rearrange.
- Fixed a font width issue for monospace fonts.
- Support for the EDI DESADV format with CPS section (Consignment Packing Sequence) online level.
- The expression evaluator evaluation for form criteria returned a wrong result for specific cases. This no longer happens.
- There is a new setting in Page Setup to activate JobInfos for PaperWidth, PaperHeight and Orientation.
- Copy/paste of global subforms objects in sheets does no create a new instance of the object anymore but will inherit the settings from the original subform object.
- Fixed an issue where text could be missing in overlays after migration for an older version.

- Added support for absolute paths as a part of the file name when inserting images from SharePoint.
- Added a new setting to set "Maximum value length" of characters for a Rearrange in the Rearrange -> Formats tab.

Lasernet XML Transformer

- The XPath for an XML Transformer form criterion was not handled as expected for XML attributes. This is now fixed.

Lasernet OCR Editor

- The relative position for a Data Field was not always in the expected position after moving a connected OCR Field to a new position. This issue is now fixed.
- Support for toggle (Shift-left mouse click) between OCR Criteria and OCR Field added to the same position.
- There is now support for delete Exception assigned to a Data Field in the body.

Lasernet OCR Engine

- Memory has been optimized for the load of OCR Forms.

Azure Storage

- Fixed an issue that could return an error incorrectly informing that the specified blob did not exist. Fixed by always handling a blob path as relative.

Compression module + FTP Input

- JobInfo extension for filename did not add the same value syntax as for similar modules. Added missing '.' to Extension JobInfo.

Database commands

- The insert command did not work as expected for Oracle databases. This is now fixed.

Outlook Mail

- Attachments in rare scenarios would wrongly include contents from JobData instead of MailAttachment. This is now fixed.

Printer Profiles

- Fix for default selection not being retained.

TIFF Module

- Added support for converting PDF to TIFF. Input data is detected via magic bytes and does not require any additional settings to convert PDF to TIFF or EMF to PDF.

XML Validator

- Added support for Schematron validation using XSLT in the XML Validator engine and modifier. A Schematron error is reported to a modifier error message. The XML Validator engine will fail, the modifier will not.

Lasernet Print Viewer

- Fixed an issue with broken headers after maximizing windowAzure Service Bus.
- Fixed crash when query URIs contain spaces or special characters.
- Support for JobInfo substitution added to SAS Key NameAzure Storage Output.
- Fixed an issue where the module could fail with "A queue name must be specified!".
- JobInfo substitution support added to Password field for Compression Engine and ModifierDatabase Connection.
- Fixed an issue where the database pooling was not workingExchange.
- Fixed an issue where the public folders did not return the UnreadCount propertyFile Input.
- Fixed locking issue when picking up .Injob as input filesPDF to Text.
- Fixed a problem when reading PDF documents created by PDFTronPDF Engine.
- Fixed an issue where Hebrew text was reversed (requires Windows EMF as overlay format).

Lasernet 9.7.

PDF Filler and Flatten

There is now a new output format in the Form Editor and a new module in the PDF Tool package, to merge metadata with PDF filler fields designed in Adobe Acrobat.

While legacy webservice integrations that use old identifiers will continue to work as a result of this new mapping configuration, they will not have access to more than 55 keys.

Long-term Archive Module

We have introduced a new output module to archive documents in the Long-Term Archive used by Formpipe (a system for the preservation of digital information over time).

Job to XML Modifier

A new module has been added in the XML package to convert system Jobinfos into a job that contains an XML structure.

Hybrid Connections

You can now set-up your Azure Hybrid Connections to connect Lasernet Meta, Lasernet Client and Lasernet OCR with the Lasernet Server.

Zip Job Data

A new option has been added entitled Zip job data.

Activate this if the form size is expected to be larger than 2 GB in a non-zipped mode, which is the maximum supported size for EMF/PDF forms in the Form Engine.

New docker window for Patterns

You can now dock the Patterns editor with connected objects in a new non-modal window. With the non-modal Patterns Editor you can still activate other windows, work with rearranges, add new patterns and continue to navigate in your form design.

Lasernet Config Server

- There is now support for Windows User Authentication as a login for SQL Server from the Lasernet Config Server, by leaving username and password empty in Lasetnet Licenser Manager -> Config SQL Server.
- We have excluded Grab and Templates objects from being deployed to the Lasetnet Service.

Lasernet Developer

- The largest allowed file size for resources in the configuration is now limited to a maximum of 25 MB. Objects larger than this size are prevented to be committed, patched or deployed to the configuration server.
- Support for the Test tool has been added to the Web Server input module.
- Fixed a crash when updating a configuration over a slow or unstable connection.
- Fixed various export/import objects issues.
- The import will stop and show an error if the path+object name is longer than 260 characters.
- Fixed a loading error when importing configurations with an object that contains special characters.
- Fixed an issue with hyperlinks in PDF for Rich Text output.

Lasernet Form Editor

- Fixed an issue where the result of a script was not recalculated in preview mode for a JSON output.
- Fixed a memory leak in PDF preview.
- The ScriptEditor collapsing in the Edit Form Modifier dialog is now fixed.
- Fixed an issue where an overlay was published on non-generated pages, in viewing mode, even when criteria were not true.
- Fixed an issue where only supported tools in the toolbar for Rich Text Editor are accessible when switching from XLSX to DOCX sheet.
- Added support for an enhanced number of Form Criteria.
- Fixed a missing CRLF after the last line when splitting pages in Form Engine.
- Fixed an XHTML Rearrange issue where HTML header elements were not being displayed correctly.

- Import Overlays will now prompt to remove 'Microsoft Word - ' and the extension from the filename for the overlay when creating a new overlay.
- The navigation to a specific page number, in EMF/PDF output sheets, has been improved when a sheet contains multiple pages.
- The Modifier criteria page has been reworked and improved to support an unlimited number of criteria.
- The auto-scroll functionality didn't work correctly from the Pattern And Rearranges dialog. This is now fixed.

Lasernet Client

- Fixed an issue where the Search function did not return a result for a Paused and Scheduled job.

Lasernet OCR Editor

- Added support for moving form(s) to another index when filtering is applied.
- Fixed where an OCR Form in rare situations did not keep grab data.

Lasernet Print Viewer

- Fixed an issue with a broken header after maximizing the window.

Azure Service Bus

- Fixed a crash when query URIs contains spaces or special characters.
- Support for JobInfo substitution added to the SAS Key Name.

Azure Storage Output

- Fixed an issue where a module could fail with "A queue name must be specified!".

Compression

- JobInfo substitution support added to the Password field for the Compression Engine and Modifier.

Database Connection

- Database pooling was not working as it should. This is now fixed.

Exchange

- Fixed an issue where public folders did not return the UnreadCount property.

File Input

- Fixed a locking issue when picking up .Injob as input files.

PDF to Text

- Fixed a problem when reading PDF documents created by PDFTron.

PDF Engine

- Fixed an issue where Hebrew text was reversed (requires Windows EMF as overlay format).

PDF Merge

- Job will now fail if an invalid PDF document for merging is detected.

Printer Output

- Improved auto-detection of PDF and DOCX documents stored in JobData or as PrintAttachment, when printing documents via the Lasernet service.
- Removed the support for using Foxit Reader installed in Windows for background printing (local copy of FoxitReader.exe in the Lasearnet program folder is still supported, but not required).

XML Transformer

- Fixed a crash when running XML actions after a modifier returned invalid XML caused by an invalid codepage.
- Added log message when running modifier returns invalid XML.
- Fixed an issue where the form criteria were listed in the wrong order after migration from older versions.

Web Server

- Added support for parsing query parameters as JobInfos in the URL.
Example
`http://localhost:8080/webinputport/WebServer1/?filename=test.pdf&username=john.doe`

Regional Profiles

- Processing Long Date in Regional Profile would be working in a wrong way in some cases.

Scripting

- Added support for a new MagicBytes helper class to detect the contents for a range of file types SDK
- Added support for reading a customized JobInfoDescriptions.xml file stored in Modules.NET folders for modules created in .NET. Additional JobInfos and descriptions will be added to the list of JobInfos in the JobInfo dialogs.

SharePoint Output

- Fixed a Sharepoint error causing the error message, "Modifier type has no modifier handler".

Lasernet 9.6.

Automatic Islands – Lasernet Developer

A new algorithm has been introduced to Modules -> Diagram Mode to improve the presentation of workflows added to the configuration. If modules in a workflow are not linked to modules in other workflows, they are listed in individual groups separated by a splitter.

New Colour Theme – Lasernet Developer

A new colour theme has been introduced when adding new modules:

- Input modules are added with green as default colour
- Engine modules are added with grey as default colour
- Output modules are added with blue as default colour

Outlook Mail

Outlook Mail is a new module in the communication package that integrates directly with Office 365 to retrieve and send emails via the Microsoft Graph API. It is an alternative to the Exchange module, using Exchange Web Services (EWS), that will no longer receive feature updates from Microsoft, but only security updates and certain non-security updates.

Binary Splitter and Merger

Two new engines/modules have been added to the base package used for splitting and merging JobData containing binary data.

Excel to XML

A new setting named 'Number of description rows' has been added. Here, the user can define the number of header rows to indicate that the first row(s) contains column names and not data.

Note: Two additional changes are introduced, which can cause incompatibilities when upgrading to this version.

Parse XML/JSON tool in Template and Grab dialogs

A Parse XML/JSON tool is now available in XML/JSON Template and Grab files dialogs to test for a valid XML/JSON structure in the files before loading into Lasernet Form Editor and Lascript XML Transformer Editor.

XML Transformer Editor

We have improved the management of actions in XML Transformer Editor, such as:

- Column for index number added to actions.
- Assign your XML actions into custom-named groups.
- Assign colour symbols to actions and groups.
- Copy/paste support for groups and actions.
- New filter option to find and filter the list of actions.

The action-type to create a new node in the XML tree has got an additional setting named 'Auto-create behaviour' with five options:

- Do not auto-create (default value and standard behaviour in previous versions)
- Insert as first Sibling
- Insert as the last Sibling
- Insert as first Child
- Insert as the last Child

Auto-polling in Lascript Client

The Poll interval can now be set to '0' seconds in Lascript Client, which means no polling. This is the new default value for the application and recommended.

Search and Extract Tools in Lascript OCR

New tools have been implemented to Lascript OCR to improve the capture of data in OCR Forms. These include a *Search backward* setting, a *new algorithm* to auto-detect a number or date format in the Wizard and an *Export tool*, to export OCR Forms for import into other configurations.

Lasernet Service

Note: A new behaviour has been introduced when running Enter Modifiers on modules where combining mode is activated. Instead of running an Enter Modifier for the first incoming job only, before combining, the Enter Modifiers are now running for every single job in the combiner queue.

Lasernet License Manager

- We have fixed an activation server detection when DNS is available but the License Manager is unable to reach a server.

Lasernet Configuration Manager

- A status check has been added if the instance name of the service doesn't match the instance name in the config server, avoiding the grab mode malfunctioning.

Lasernet Form Editor

- Fixed a crash when previewing a PDF document and afterwards an EMF document.
- Fixed a crash on an attempt to shift to another page while previewing a TIFF output document.
- Fixed a crash that occurred after performing the 'Merge' & 'Replace' actions in 'XML' or 'JSON' tabs of the 'Edit Rearrange' dialog.
- The path of the JSON rearrange could not be set or changed via "Edit JSON Rearrange" dialog. This is now fixed.
- The system will now prohibit selecting "object" and "array" node types as a location from the "Edit JSON Rearrange" dialog.
- Updated the UI to a new style error message on an attempt to add a new element to JSON output with the same name already in existence.
- Fixed an issue where the "Do you want to save..." dialog in some cases popped-up on an attempt to close the form that was already saved by the user.
- Fixed a crash when using font "KievitOT-Regular", causing a problem with formatting floating point numbers in the setting file.
- Fixed the detection of Landscape mode in preview mode for EMF output.
- Fixed an issue where a deleted overlay, from Import Printed Overlays dialog was still imported.
- Disabled logger info about image rendering.

- Fixed a crash in Form Editor when pasting contents from the Clipboard with comments created in Microsoft Word.
- Fixed an issue where double space was present in the email body for some email readers, when the XHTML template was pasted/loaded from another application.

Lasernet Developer

- When logging into Lasernet Developer, new users added to the Lasernet Configuration Server will now be prompted to change the password if required.
- Improved the speed when multiple modules are "toggle inactive/active" at the same time
- Toggling active flag did not populate in UI until configuration was reloaded. This is now fixed.
- Fixed an issue on removing a recently renamed regional profile linked from a form.
- Changing the JobInfo Criterion case sensitive flag was not saved after editing. This is now fixed.
- Created + modified date columns added to resource files.
- JobInfo Substitution added as Master Jobinfos are now supported in test mode in most modules.
- Sort correctly on file size for files in resources.
- We have fixed a wrong path populated when saving the previewed file in resources.

Lasernet Form Engine

- Fixed a race-condition causing heap corruption in DateParser in multi-thread mode, caused by heavy processing of forms with conditional rearranges and date formatting.

Lasernet Monitor

- Fixed an issue where Grab Mode -> Activate/Deactivate did not work directly from the monitor UI.

Azure Storage Output

- Fixed an issue where the scheduler did not run for the input module.

Code Page Conversion

- Added a new setting to include UTF Byte-Order-Mark (BOM) in the files.

Exchange

- Added support for reading signed mails.
- Mail body is read in Exchange and set in JobInfo named InputBody.

File Input

- Validation check added for an empty directory path, set via JobInfo substitution, which will prevent module not to start in the service.

FTP

- Fixed an issue where the scheduler did not run for an input module.
- Fixed a crash caused by a race condition in deployment/patch mode.

HTML to XHTML

- Fixed an issue where the Save button in the UI did not work for grab files.

HTTP

- Fixed an issue where the scheduler did not run for an input module.
- HTTPStatusCode and HTTPStatusText were not set when failing to GET file. This is now fixed.

Mail

- The value for the JobInfo Extension was missing a dot. 'ext' -> '.ext' for incoming emails. Now fixed.

PDF Merger

- A job will now fail if one or more PDF documents cannot be loaded because of an invalid format.
- Fixed an issue where merging PDFs in rare cases could cause a crash.

PDF to Text

- Fixed a case where text strings were converted into two words.

Text Splitter

- Improved speed when using reg. ex. As a splitter syntax.

Web Service

- Fixed an issue where scheduler did not run for an input module.

Web Server

- Support for setting the JobInfos HTTPStatusCode HTTPStatusText as a response.
- There is now a fix for wrong response content-type when the request is SOAP 1.1.

XML Transformer Engine

- Fixed an issue where a Group action, did not always add the new group element, in the expected XPath, after running an Insert action.

XML Validator

- Fixed a crash when attempting to download schema when there's no internet connection.

Lasernet 9.5.

Windows Server 2019 Support

Windows Server 2019 officially supports this version.

Lasernet Form Editor

- JSON Support is now available.
- A new Template Editor for XML and JSON output formats, which is also supported for JASON as an output format has been implemented.
- You can now set Status Flags as a property setting for elements in the XML navigation tree.
- In the Fonts settings of a Rearrange, you can now define the criteria for Formatting Substitution. Previously, this was only possible via Javascript.
- There is now support for migration of Lasernet 6.6 forms with broken rearranges
- Support for displaying base64 encoded EMF images in forms.
- Fixed an issue where hyperlinks in PDF may not always be clickable in Adobe Acrobat.
- An underlined font, in a text string aligned as justified, led to an unexpected break between words. This no longer occurs.
- The splitters in 'Select Grab File(s)' dialog to have a position that will hide the list of files is now avoided.
- Made input view border size and related signs dependable on zoom for XML formats.
- Fixed an issue where Rich text forms were marked as modified when opened.
- LogView filtering has been improved in Patterns and the Rearranges dialog.
- Fixed that XML Output -> "Move down" context menu command is enabled for the first node and disabled for the last node.

Lasernet Module Tester

- Support for XML Transformer, Form Engine and .NET modules created via SDK.

Lasernet Service

- Fixed an issue with JobEvents causing job trees in the database to be retained permanently.

Lasernet Configuration Service

- Added handling of the database already existing when starting Lasernet Config Service while Microsoft SQL Server is starting simultaneously.

Lasernet Developer

- Filtering, for supported mimetimes, is removed for the setting Default Destination available in most input modules.
- The subforms were not updated after renaming or removing a regional profile. This is now fixed.
- Added support for the toolbar with actions for the Preview of the log messages.
- Fixed an issue where keysets generated for TLS connections were not removed after use.
- LogView filtering support added to multiple views.
- Fix for crash when right-clicking an object in Diagram -> JobMode

Lasernet XML Transformer Editor

- An enhanced option to insert an external XML structure via the Create action is now available.
- We have fixed a crash when moving up/down actions quickly in list view.
- LogView filtering support has been added to action view.
- The Log window did not show anything until log events were changed.
- Support for sorting CDATA values.

Lasernet OCR Editor

- Added support for refreshing Identifiers without needs to restart Lasernet Service
- JobInfo substitution support added to CSVFile field in OCR Engine settings

Azure Service Bus Input

- We implemented a fix for a race condition when having multiple ASB Input objects.

Database Commands

- Fixed an issue where stored procedures were unable to be stored.

PDF Stamp

- A parameter sample for page numbering in the GUI can now be shown.

Mail Output

- Support for SMTP mails with Danish characters in the domain name.

SharePoint Output

- We have fixed a connection issue.

Web Services Client

- Added support for setting Request Headers.

Web Server Input Output

- Fixed an issue where module name in URL was case sensitive.

Lasernet 9.4.

Lasernet OCR

- Version 9.3 was not able to start-up via a Windows shortcut due to a missing DLL. This is now fixed.

Lasernet Meta

- Version 9.3 was not able to start-up via a Windows shortcut due to a missing DLL. This is now fixed.

Lasernet 9.3.

Lasernet Developer

- The Module Tester now works for .NET modules.

Lasernet Service

- Fixed an issue with JobEvents causing job trees in the database to be permanently retained.

Lasernet Form Editor

- There is now support for the migration of Lasernet 6.6 forms with broken rearranges.
- There is now support for displaying base64-encoded EMF images in forms.
- We have fixed an issue where hyperlinks in PDF may not always be clickable in Adobe Acrobat.
- A new setting named, 'Ignore object if no data is provided' has been added to Rearrange, JobInfo, Barcode and Shape objects.

Lasernet Overlay Engine

- Fixed an issue where duplex pages were not handled correctly due to a wrong path to overlays.

Lasernet OCR Editor

- Added support for refreshing Identifiers without the need to restart the Lasernet Service.

Lasernet Meta

- We have added support for refreshing identifiers without the need to restart the Lasernet Service.

Database Commands

- Fixed an issue where store procedures were not added correctly.

Exchange

- Fixed an issue that was preventing the Exchange and .NET modules from receiving incoming jobs.

Mail Output

- There is now support for SMTP mails with Danish characters contained in the domain name.
- Username and password settings were not always being saved. This is now fixed.

Lasernet 9.2.

Lasernet Module Tester

The Lasernet Module Tester is a new application designed to verify/debug a configured module from the Lasernet Developer before committing and deploying any modules.

For more details, please see the New Features page.

Lasernet Developer

- It is now prohibited to rename a Form Engine if engine contains forms.
- Fixed an issue where right-clicking a menu adding modules mistakenly only showed the input modules.
- Fixed a crash when creating thumbnails during the import of Rich Text forms.
- Contents of the JobInfo dialog couldn't be edited if the JobInfo value contained a fixed text.
- An unexpected error was shown when adding a SubForm was canceled.
- Improved the usage of script modifiers added to modules.

Lasernet Form Editor

- There is now support for inline modifiers in forms.
- Improved the usage of the binding tool on the Properties button for Rich Text Editor.
- Background and border support added to SubForm objects.
- Fixed an error when closing Form Editor after adding an image to a Spreadsheet via an URL on the clipboard.
- Fixed a crash when adding a rearrange in XML output mode with the property editor open.

Lasernet Client

- Multi-selection of destinations is now prevented.
- Fixed an issue releasing a scheduled job which caused LnService to crash.

Lasernet OCR Editor

- CSV file assigned to an identifier field is now reloaded when the dialog is opened.

Lasernet Script Editor

- Added a new function to allow aborting a script function call after a specified amount of time.
- Implemented a different timeout mechanism for trying to gain an exclusive lock in ScriptFile::open.

File Output + FTP Output

- Added mutexes to prevent the same filenames when the "File exist -> Rename" property is activated.

XML Validator

- Fixed an issue where DTD unexpectedly was prohibited for OIOUBL.

Lasernet API

- Fixed an issue where the method for computer list was not compatible with AX Connector.

.NET Module SDK

- The module now receives JobModuleConfiguration.

Lasernet 9.1.

Lasernet Service

- A log message is now created when the Lasernet Service is prevented from starting due to a machine with only a single core (not supported).

Lasernet Portal Service

- Validation of certificates when searching for a suitable certificate for SSL/TLS binding has been added to prevent the Lasernet Portal Service from failing to start after an installation.

Lasernet Configuration Server

- MWe have fixed an issue where a password not UrlDecoded before encryption. The '&' symbol and other special characters were not supported as part of the password.
- Fixed an issue where there was prevention of 0 bytes files (included in older setups) to migrate to Lasernet 9 running with SQL Server DB as the deployment server.

Lasernet Developer

- Added F2 rename support for the object name in most list views

Lasernet Form Editor

- Optimized speed for loading list/thumbnails for overlay files in the 'Add overlay' dialog.
- Improved the rearrange dialogs not to accept invalid criteria expressions.
- You can now enter multiple regional profiles with the same name.
- Numbers were incorrectly converted in specific cases when using "Ceiling".
- Added support for CTRL-Mouse scroll for zooming XML.
- Retrieved grab function (F12) which did not prompt for server selection in setups with multiple servers.
- Improved multi-selection support in XML input and Dataset output views.
- Fixed an issue with a combination of merged rearranges with criteria that did not always trim whitespaces.

Lasernet XML Transformer Editor

- Added support for CTRL-Mouse scroll for zooming XML.

Lasernet Client

- Fixed an issue where XML Transformer forms were not compatible after migration from an older version of Lasernet. The criterion is no longer required for XML Transformer forms when running at a modifier event.

Lasernet OCR Editor

- Fixed an issue with CSV File content missing for Identifiers.

Lasernet Web Server

- Added support for custom headers in preview mode.

Lasernet Web Service

- Fixed a crash where opening an existing module could cause a crash.

Lasernet Scripting

- New script class added for MD5, CRC32 and SHA1 hashing.

Lasernet 9.0.

Windows Services

- Four mandatory services with two additional services to run the Windows Server with Local System as the default user have now been renamed.

Lasernet 9 (Default:3279)

- The primary Lasernet service to process workflows and forms installed and licensed via the License Manager by the end-user (similar to previous versions).

Lasernet Print Capture 9

- The Lasernet Print Capture service provides a virtual printer for creating Lasernet overlays (similar to previous versions).

Lasernet Config

- A new service to manage all the Lasernet configurations.

Lasernet Portal 9

- A new service that provides a web interface for managing Lasernet configurations and servers.

Lasernet Dictionary 9

- Only required for users running Lasernet Input Management with dictionary support. Installed via the Lasernet License Manager by the end-user (similar to previous versions).

Lasernet Meta Proxy 9

- Allows multiple Meta instances to run on the same machine. Installed via the Lasernet Meta 9 installer by the end-user (similar to previous versions).

Lasernet Configuration Server 9

- A new web portal has been created enabling users to view configurations, manage deployments, view the history log, manage servers, users, groups and security roles.

Lasernet Launcher 9

- We have introduced a new launcher with access to all the Lasernet applications and manuals.

Connect to Lasernet

- Log into the Lasernet configuration server as a Lasernet and/or Admin user with a secure connection.

Lasernet Developer

- We have updated the user-interface with a new skin, frameless editors, improved usability, new modules and new deployment and administrative tools.

Lasernet Configuration Server

- Users can now commit or add new objects to the Lasernet Configuration Server or revert changes previously added to the configuration. Changes made can be seen in the Show Changes window once you have clicked the Show Changes button.

PDF Converter

- The PDF Converter's speed is now up to three times faster.

PDF Merge

- There is now a new module to combine/merge PDF documents.

PDF Split

- New module to split PDF documents into multiple parts.

PDF Stamp

- New module/editor to stamp PDF documents with text strings, images and page numbering.

FTP, Mail and Exchange modules

- There is now support for running modules as modifiers.

CSV

- Support for CSV to JSON and JSON to CSV.

Web Server

- Support for parsing JSON RESTful when setting up web services in the Web Server module.

Printer Output

- Build-in auto print tools for DOCX, PDF and XSLX formats created by Lasernet. No need for third-party components, but they are still supported.
- Magic bytes support to auto-detect job format for background printing of DOCX, PDF and XSLX documents. No need for additional JobInfos to detect a print job.

Rich Text Converter

- New module to convert DOCX documents generated by Lاسernet to PDF.

Lاسernet XML Transformer Editor 9

- We have updated skin with frameless editors and dialogs. Forms without criteria are no longer processed and at least one criterion in a form is mandatory.

Lاسernet Form Editor 9

- Updated skin with frameless editors and dialogs.

Usability

- New user interface for Rearrange, Barcode, Chart, Image, Text and Shape dialogs.
- New ruler representing millimeters and not centimeters.
- New RGB colors for guidelines, ruler markers and margin borders.
- New window to show name and values of input and output objects.
- New font types for logger and XML trees.
- Settings for output zoom, scroll and splitter positions are registered for each sheet of the form.
- Create horizontal and vertical ruler guides in EMF forms.
- Elegant print viewer with color codes for EDI tags added to template editor in EDI output mode.
- New function to assign existing child objects to a new Pattern.
- New function to keep assigned objects when deleting a Pattern.
- Default values for start and end Y-position in the Conditional Area are not fixed, but is calculated on behalf on the page length of a new sheet.
- You can now activate/deactivate guidelines for Conditional Areas, Regions, Rulers and Paper Margins.
- Drag'n'drop support for the images from File Explorer to the Form Editor
- New help dialog for copy/paste of multiple Rearrange objects between forms with XML as input.
- New default values when adding Patterns. "Progress": 0 mm, "Progress is relative to highest value": Active, "Keep Rearranges together": Active.
- New default value when adding Rearranges: "Keep rows together": Active.

Subforms

- There is now a new subform editor to create a new object called Subform. A Subform can contain multiple Rearranges, Shapes, etc., and saved as a local or global Subform. You can inherit a global Subform multiple times in multiple forms, both in a static position (similar to Overlays), or in a user-defined position (similar to Rearranges).

Rich Text Editor

- A new Rich Text Editor with mail merge support and DOCX, PDF, PDF/A as output formats is introduced; with a built-in Phrase Editor to create and inherit multiple inline or global phrases across forms created as DOCX/PDF format.

Excel Spreadsheet

- New Excel Spreadsheet Editor with mail merge support and XSLX as an output format.

Dataset

- New Dataset input and output format used for mail merge support in Rich Text and Spreadsheet Editors.

Alternate rows - odd/even colors in the body of tables

- Customize the background colours for odd/even lines in the body of tables. Define the user rules for background colors for the top and bottom of margin and the additional progress based on output results for first/last odd/even colors.
- You can detect alternating rows within Pattern Properties, and set odd/even colours in the body of all tables.

Additional

- Form indexes for Form Engines and XML Transformer Engines are replaced with a new setting named 'Setting'. Forms with the lowest value have the highest priority.

Server list

- The server name and port number are maintained from the Lasernet Config Server. In Lasetnet Developer 9 configuration, you only have to add the name of the Instance.

Multi developer

- Support for locks and synchronization of committed objects in multi-developer mode.

Preview

- Activate View->Preview to show/edit preview for Resource objects and Phrases.

Zoom in XML forms

- User-defined zoom values for XML views in Form Editor and XML Transformer Editor.

SQL Server

- SQL Server is used as a backend for the Lasernet Configuration Service.