

Intella Connect 2.4.2 Release Notes

Released: May 20 , 2021

Highlights

- Added **two-factor authentication** for local users.
- Added support for **X-Ways images** (CTR and E01 files).
- Added **Sets mode** to the Cluster Map.
- **Predictive Coding** usability and scalability improvements.
- Improvements for handling **large coding layouts**.
- Added support for displaying **HEIC/HEIF images**.
- IntellaCmd.exe can now handle **keystore** information.

Dongle Manager

- Various usability improvements.

Case Management

- Case templates now carry across the tag colors.

Security & Auditing

- Added two-factor authentication (2FA) for local users. Intella Connect's 2FA is based on Time-based One-Time Passwords (TOTP), such as generated by the Google Authenticator app. 2FA is setup for each account individually. It can be configured for a user account by the account holder or the Connect admin. At a later stage we plan to add two-factor authentication support for Intella Connect setups utilizing LDAP.
- Resolved an issue where search queries were not being added to the case's event log, making it impossible to audit them.
- The Print button in the Previewer and the "Export as PDF" button in the Redaction tab are now hidden when the current user lacks the "Can download original item" permission.

Indexing - General

- Improvements to the processing of MS Teams data:
 - Enhanced the textual representation of chat messages.
 - Populated the Recipient Count column.
 - Stability improvements.

- Improvements to the processing of Cellebrite reports:
 - Added support for social media activity entries.
 - Resolved an issue with processing chat conversations with mixed protocols (e.g., SMS and MMS).
- Resolved an issue with emails in PST, MSG or EDB files lacking sender metadata when the actual sender was stored in the PR_CREATOR_... properties.
- Resolved an issue with missing recipients in MSG emails.
- Resolved various issues with PDF files that would not process correctly.
- Resolved an issue with emails extracted from Outlook for Mac OLM files that were missing email headers, recipients, and OLM-specific email threading metadata.
- Resolved an issue with jump list items showing incorrect dates, due to NULL values or zeroes being interpreted as if they were valid dates.
- Resolved an issue with certain MS-DOS executables not being classified as such.
- Stability improvements to the processing of Slack exports.
- Stability improvements to the processing of Notes NSF files.
- Stability improvements to the processing of MS Visio documents.
- Relaxed the thresholds for detecting so-called ZIP bombs, as they could potentially flag certain MS Office documents as ZIP bombs.



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- The value of the `intella.itemTextMaxCharCount` property is now capped at 2³¹.
- Resolved an issue with the Edit Source dialog not letting the user change the evidence path when that path pointed to a folder rather than a file.
- Resolved an issue with the indexing progress being reset to "1%" while running post-processing tasks (e.g., OCR).
- Resolved an issue with Notes NSF files failing to process when HCL/IBM Notes was not installed in the default location.

Indexing – Disk images

- Added support for indexing X-Ways disk images (CTR and E01 with XWFS2 file system).
- Improvements for handling large (multi-TB) E01 and L01 disk images.
- Improvements for indexing BitLocker images that lack a volume system. This occurs when only one partition of the drive was imaged.
- General improvements to the processing of E01, Ex01, L01 and Lx01 disk images.
- Improved the indexing of system files like \$Boot, \$Header, etc., which occur in the root folder of a disk and which were incorrectly identified as being NTFS file systems on their own.
- Resolved an issue with a Linux disk image with Ext2 file system not processing correctly.
- Improved usability and stability of the disk image validation step.

Indexing – Cloud sources

- The Office 365 source type has been renamed to Microsoft 365.
- Resolved an issue with iCloud sources, where accounts using two-factor authentication were not able to verify the account credentials.
- Resolved an issue with certain emails with attachments from iCloud accounts not processing correctly.

Indexing – Load files

- Added support for importing BegAttach and EndAttach fields.
- To properly support the BegAttach field, the "Parent Document ID" column was renamed to "BegAttach / Parent ID".
- Resolved an issue where an error occurring during file type identification would halt the entire importing of a load file.

IntellaCmd.exe

- Added the ability to specify key store information such as passwords, BitLocker keys and certificates to IntellaCmd.exe.
- The IntellaCmd.exe user documentation is now included in the Intella Connect User Manual. Previously, it was only bundled with the Intella User Manual.

OCR

- Added support for OCR-ing HEIC/HEIF images.

Analysis

- Resolved an issue with Email Threading analysis terminating with an error.

Coding

- Several improvements for handling large coding layouts:
 - A coding layout can now span multiple columns. This prevents or reduces the need for scrolling.
 - Added a "Multi select" coding field type. This is a drop-down interface element that lets the user select multiple options from its list. This facilitates coding fields with lots of options, where only a few are typically selected.
 - Resolved an issue with the "Latest" button not working properly when a large coding layout forced the user to scroll to the button.
- Added a check for unsaved comments when users navigate away from the current item.

Predictive Coding

- Added a function for exporting the predictive coding review queue to a CSV file.
- Added a "Show recent actions" button, giving the reviewer an overview of recent actions in the review queue. It allows the reviewer to jump back to previously reviewed items, even when they are no longer visible in the review queue.
- Improvements to let the predictive coding engine work with larger sets of data.
- Usability improvements in the Elusion Test module.
- Resolved an issue where the "Latest" button in the Review tab of a predictive coding queue would not show a preview of the values it would apply.

Searching

- Resolved an issue with phrase searches not producing optimal results when using complex search terms such as email addresses inside the phrase query.
- Resolved an issue with path queries not producing optimal results when the query terms contain slashes or underscores.
- The "Microsoft Teams Conversation" is now located in the Type facet beneath "Chat Conversations", rather than beneath "Chat Messages".
- The "Parent Document ID" column has been renamed to "BegAttach / Parent ID". This was necessary to properly support the BegAttach and EndAttach load file fields.
- Resolved an issue with MD5 search not returning items that were imported as part of a load file overlay.



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Cluster Map

- The Cluster Map can now toggle between Clusters and Sets modes. Sets mode shows each search result as a square whose size is related to the number of items in that result set. The sets are grouped by their order of magnitude, e.g. < 10 items, < 100 items, < 1000 items, etc. This mode can visually scale to larger groups of search results set than Clusters mode. When the graph shown in Clusters mode would be too complex to display in a reasonable amount of time, Intella will automatically switch to Sets mode. Clusters mode will then stay disabled until the graph's potential complexity in that mode is feasible to be displayed again.

Previewer

- Added support for displaying HEIC/HEIF images. These are commonly found on modern iOS devices.
- Various improvements to the native rendering of documents, presentations, and spreadsheets.
- Added a check for unsaved comments when users navigate away from the current item.

Tagging

- Resolved a usability issue with tag removal when tags are added by multiple reviewers. When a reviewer now tries to delete tags applied by other reviewers, Connect will prevent that from happening, unless the reviewer explicitly selects a checkbox about removing taggings from other reviewers.

Keywords tab

- Resolved an issue where queries for exclusive items would not work correctly when the current keyword list has any query errors in it.

Export – PST

- Stability improvements for exporting to PST.

Exporting – PDF

- Added “Page Number” as an option for Bates stamps. This allows for the pages to be numbered independent of the chosen file naming scheme.
- Resolved an issue with hidden sheets in MS Excel spreadsheets not being exported to PDF/TIFF format.

Exporting – Load files

- See also the notes for the PDF exporting method, listed above.
- Renamed the RECORD_ID_GROUP_BEGIN and RECORD_ID_GROUP_END load file fields to BEGATTACH and ENDATTACH. This improves the ease with which the produced load files can be ingested by Relativity.

Exporting – Report

- Improved the report contents when there are no items to report on, either for the entire report or for a specific section.
- Resolved a stability issue where the report export failed, when the original binary file was to be included but was not available in the case.

Exporting – Case

- When exporting items to a second case, the exported data now includes the following columns: Custom ID, Custom Family ID, Duplicate Locations, Duplicate Custodians.

Upgrade Notes

Case versions 2.1.x to 2.4.x – Intella Connect 2.4.2 can directly open cases made the 2.4(.1), 2.3.x, 2.2.x and 2.1.x versions of Intella and Intella Connect.

Due to changes in data storage, Intella Connect 2.4 is not able to open cases made with the 2.4.1 or 2.4.2 versions of Intella and Intella Connect.

Upon first startup, Intella Connect 2.4.2 will migrate all existing coding layouts made with 2.3.x or older to a new format. This process reads each coding layout XML file stored in C:\Users\[USERNAME]\AppData\Roaming\Intella\coding-layouts and creates a new XML file in its place, making sure that there will not be any naming conflicts. A copy of the original coding layout is preserved in the “migrated” subfolder.

When a case made with Intella or Intella Connect 2.3.0 or older is opened in Intella Connect 2.4.2, adding Custom ID tasks to the case in version 2.4.2 may render the case unopenable in that older version. Changes have been made in the 2.3.1

version to prevent such forward compatibility issues in future releases.

When a case made with Intella or Intella Connect 2.1 or older is opened, all Content Analysis results are automatically migrated to a new data storage format. This migration happens only once. The old store is retained and will still be used when using version 2.1 or older. New results will not be added to the old store though, and new results added to the old store will not be migrated. Cases made with 2.1.1 or later already use the new data store and are therefore not affected.

When items in cases made with a 2.1.x version are exported to a separate case, the registered case size of the target case will be incremented with the size of the original case. This may be problematic for users with licenses that have a case size limitation. To resolve the inflated case size, the source case needs to be re-indexed before exporting items from it.

In Intella Connect 2.2.2, a new method for calculating message



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hashes was introduced. While this change is transparent, please be aware that message hashes will change when re-indexing a case that has been made with an older version.

Case versions 1.9.x to 2.0.x – Cases made with the 1.9.x and 2.0.x versions of Intella and Intella Connect can be opened, but these cases first require conversion. Case conversion will create a copy of the case in which all item data is converted, and all tags, comments and flags are imported. The existing case will not be altered in any way and can afterwards still be opened in the older Intella version. Access to the original evidence files is not required for case conversion.

Caveats concerning the case contents:

- Case conversion will not transfer the geolocation metadata extracted from emails when the “Determine geographic location of emails” option was used. Re-indexing of the converted case is required to restore such metadata.
- Multi-page TIFFs will be displayed in the converted case as if they were single-page TIFFs. Exporting and printing of the item report does reveal the other pages. Re-indexing of the converted case will make all pages displayable again.

Case conversion will require sufficient disk space. As a rule of thumb, please reserve twice the amount of the evidence size for your case folder.

Other case versions – Cases made with Intella 1.8.x or older are not supported. Cases made with beta versions are not supported and should be recreated.

SSL – Intella Connect/Node 2.4.2 has switched to a new keystore implementation, used for storing its certificates. This keystore uses a different set of default root certificates. The new implementation effectively uses the same set of root certificates as the Firefox browser. Please check after upgrading Intella Connect/Node that your SSL certificate is still verified. If not, please check the “Advanced: Using Self Signed certificates” section in the Intella Connect Administrator Manual for instructions on how to install the certificate.

Software versions – Vound will provide technical support for one major past version. For this release that will mean the 2.3.x range of products. Vound will always recommend that users upgrade to the latest version.



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