

# Intella Connect 2.4.1 Release Notes

Released: **February 1, 2021**

## Highlights

- Notable improvements in **Sources view**, adding the ability to **(re)index individual sources**.
- Added support for **Microsoft Teams**.
- Notable improvements for processing **BitLocker images and NSF files**.
- Indexing and case merging/exporting **performance improvements**.

### Licensing

- Starting with Intella Connect 2.4, to ensure compliance with Intella Connect's licensing agreement, a Connect license will not allow a second instance of an older version to run on a different machine. One older version instance may still be run concurrently, but only on the same server running the 2.4(.1) version, and only for the purpose of migrating to the newer version. Note that Upgrade Notes section on supported case versions: Intella Connect 2.4.1 can open cases made with versions 2.1.x, 2.2.x, 2.3.x and 2.4, so there should be no need to run past versions in parallel.

### Authentication

- Added instructions to the user manual for setting up Single Sign-On using Microsoft Azure.

### Connect Grid

- Resolved an issue with users not being redirected to the primary Connect server when logging out of Intella Connect.

### Sources

- The Sources view has been refurbished and received several usability improvements.
- It now allows certain operations to be performed on specific sources, whereas previously this could only be done on the case in its entirety:
  - The ability to index specific sources.
  - The ability to re-index specific sources.
  - The ability to scan specific sources for new evidence files.

- Other notable improvements:

- Improved the speed of loading sources list.
- Sources with critical issues, such as missing evidence files or major indexing errors, are emphasized.
- Sources details panel now shows dates when source has been added, last indexed, as well as a result of the last crawling status.
- One can now remove multiple sources at once.

### Indexing

- Added several optimizations to the post-processing phases of the indexing operation. These relate to the steps taken immediately after crawling of the evidence files, when several databases are constructed from the crawl results. The optimizations improve the time needed for indexing evidence files. The optimizations also benefit case merging/exporting, as that operation predominately consists of the tasks performed in these phases.
- Added support for indexing Microsoft Teams data, in particular (but not limited to) chat messages. Teams data from PST files and Office 365 sources are both supported.
- Several improvements for the processing of BitLocker disk images:
  - Added support for BitLocker volumes with clear keys. These are keys stored in unencrypted and unprotected form in the BitLocker volume.
  - Added support for BitLocker volumes with multiple recovery keys. Earlier, only the first encountered recovery key was used to validate and index the disk.



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- Improved error reporting when the disk cannot be decrypted.
- Resolved an issue with disk images of non-encrypted drives incorrectly being classified as an encrypted BitLocker disk.
- Several improvements for the processing of Notes NSF files:
  - Added support for HCL Notes 11.
  - Added support for decrypting individually encrypted emails in a non-encrypted NSF file.
  - Indexing stability improvements. Access to the NSF file through Notes now takes place in a dedicated process. This way, any Notes crashes can now be recovered from more reliably and cannot result in case corruptions anymore.
  - Resolved an issue with files in a folder being skipped when that folder also contains a Sametime dump.
  - All references to “IBM Notes” in the user interface and documentation have been renamed to “HCL/IBM Notes”, to reflect the new owner of this product.
- Added recovery of deleted mails from MS Outlook 2013 OST files.
- Added file type detection for AppleSingle and AppleDouble files.
- Added support for loose instant messages and DeviceConnectivity items in Cellebrite dumps.
- Several extraction improvements as a result from software library upgrades.
- Resolved a stability issue when indexing E01 disk images made with the Tableau TD3 Forensic Imager.
- Stability improvements for indexing APFS disk images contained in AFF4 containers.
- Resolved a memory usage issue introduced in the 2.4 release when indexing exceptionally large text files (e.g., log files in the hundreds of MBs).
- Resolved a concurrency issue with the processing of prefetch (.pf) files.
- Resolved a stability issue where data integrity issues within certain parts of a Slack archive caused other items to be omitted as well.
- Resolved “Path ‘0’ does not exist” errors that may appear when re-indexing a case.
- Resolved an issue with the file system browser not showing the evidence folders.
- Resolved an issue with truncated text errors being shown as source level errors rather than item level errors.

### Indexing – Cloud Sources

- Updated the Dropbox source so that it works with the new “Scoped access” API. Note that Dropbox is retiring the old Dropbox API and Dropbox Business API. It is no longer possible to define new apps on Dropbox with these APIs. The online documentation in the Vound knowledge base has been updated accordingly.
- Several stability and usability improvements for indexing iCloud accounts.

### Near-Duplicates

- Optimized the time needed to open a case containing near-duplicate detection results.
- Documents consisting only of paragraphs marked as excluded are now skipped during near-duplicate detection. Earlier, they were all placed into the same near-duplicate group.

### Searching

- Resolved a stability issue when evaluating Show Conversation queries.
- Resolved an issue with the MD5 and Message Hash facet failing to load completely when one of the hash lists could not be found on the server anymore.
- Resolved an issue with the item counts and menu icon in the Tags facet disappearing from view when a tag with a very long description was listed.

### Results

- Added a Table column and item property for the chat protocol of a message or conversation item. E.g. Skype, Slack, SMS, iMessage, ... The case needs to be (re)indexed with the 2.4.1 version for these values to appear.

### Previewer

- Resolved an issue with the Previewer not rendering properly when displaying certain types of emails with embedded images.

### Tagging

- Added safe-guards to prevent reviewers from creating circular parent-child references in the tag model. These could lead to system instability.

### Coding

- Resolved an issue with the coding form, including the Apply button, becoming enabled when a batch without assigned reviewers was opened for browsing.
- Resolved an issue with the “Batch review completed” dialog being displayed when reopening a batch that has already been reviewed completely, and not allowing the user to apply additional tags to these items.

### Redaction

- Resolved an issue with redactions being multiplied when the server is under heavy load.

### Exporting – PST

- Stability improvements for MS Outlook validation.

### Exporting – Report

- Resolved an issue with the export wizard not rendering certain components when selecting the type or tag that the report will be based on.



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## Exporting – Load Files

- Resolved an issue with certain load file configurations resulting in the Subject being rendered twice and the Attachments line being omitted.
- Resolved an issue with the item fields not being shown in the Load File Fields Options tab when exporting to a load file in Ringtail format.

# Upgrade Notes

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**Case versions 2.1.x to 2.4.x** – Intella Connect 2.4.1 can directly open cases made the 2.4, 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 versions of Intella and Intella Connect.

Upon first startup, Intella Connect 2.4.1 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 2.4.1, adding Custom ID tasks to the case in version 2.4.1 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 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.

**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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