

# Intella 2.6 Release Notes

## Highlights

- Introducing a new product: **Intella Investigator**.
- Enhance indexing through **crawler scripts**.
- **Compound case** improvements.
- Added AI-based **image categorization** and **object detection**.
- Added support for changing the **thumbnail size, zooming** into a specific thumbnail and other **thumbnail usability** improvements.
- Added support for **video thumbnails**.

### Intella Investigator

- The 2.6 release adds a new product to Vound's portfolio: **Intella Investigator**. This product combines the best of Intella TEAM with browser-based access and strong IT management capabilities:
  - Centralized case and user management.
  - Access cases through a web browser or with Intella Viewer.
  - Browse evidence items using the Explore tab, no complex searches required.
  - Manage persons of interest through Identities.
  - Categorize images using AI-based Image Categorization and Object Detection. Review the results in the dedicated Images tab, or in the Explore and Search tabs.
  - Manage server deployments by optionally installing as a Windows service.
  - Handle user management with LDAP, Single Sign-On (SSO), and/or by defining local accounts.
  - Control user permissions using role-based access.
  - Secure communication through SSL, two-factor authentication (2FA) and by enforcing password policies.
- Intella Investigator is ideally suited for teams of investigators, supporting their investigation workflows and case management needs.
- Intella Investigator uses the same case format as the other Intella variants. No case conversion is needed to use an Intella case in Intella Investigator and vice versa.
- Intella TEAM Manager licensees that upgrade to the latest version will migrate to the Intella Investigator product free of charge. Upon running Check for Updates in the Dongle Manager, TEAM Manager licensees with a minimum of

60 days left on their Maintenance Agreement will get the Intella Investigator 2.6.x license on their dongle.

### General

- Resolved certain case crashes that could occur when a case was closed.

### Installer

- The Desktop and Start menu shortcuts created by the installer now reflect the installed product version in the shortcut name.
- Several additional executables bundled by the installer are now digitally signed. This reduces false positives with security software packages.

### Case management

- Improvements to the management of compound cases:
  - When deleting a case, the Case Manager now shows all compound cases in which the selected case is used. Before, it would show only one of the compound cases.
  - Compound cases can refer to cases that are not in the global list of cases (i.e., the cases.xml file). When listing the sub-cases of a compound case, only sub-cases already present in that global list would be shown. Now, all sub-cases are shown, regardless of their presence in the global list.
  - Resolved an issue with the case size of compound cases being calculated incorrectly.
- Improvements to uploading cases to a Connect server:
  - The authentication mechanism now uses Connect accounts, rather than the Connect server's Windows OS account.



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- Added a message upon completion of the case upload.
- Improved error handling for case uploads.
- Stability improvements when accessing a case through a UNC path.
- Resolved an issue with cases failing to open due to a corrupted Export Set database.
- Resolved an issue where manually correcting incorrect case memory settings of a new case would result in the newly created case becoming unopenable.
- Resolved an issue with the case logs not listing the chosen memory settings correctly.

### Compound cases

- Compound cases now fully support items that have been OCR'd in their sub-case. The OCR tab will show in the Previewer, and the "OCR'd" category in the Features facet reflects all OCR'd items.
- Compound cases now show the item comments present in sub-cases. These comments are read-only.
- Improved the contents of the "Has Imported Text" category in the Features facet. The resulting item set now contains items that have imported text in their sub-case.
- Resolved an issue with the attachment links in conversation items not working properly when using a compound case.

### Crawler scripts

- Added the ability to define a crawl script in a source. A crawler script is code (Python, Groovy or Java) that can run during the indexing and processing of that source. A crawler script can collect, extract, or process data. It can also be used to enrich or reduce data sets by adding or removing data based on specific criteria. For example, a user might create a crawler script to exclude data that is not relevant to their needs, or to add additional data that they want to include in their dataset. Intella crawler scripts can be customized to meet the specific needs and requirements of individual users. Documentation and sample scripts are available on our GitHub page: <https://github.com/vound-software/intella-crawler-scripts>

### Indexing – General

- Resolved an issue with indexing of an exported case bringing back items that were not part of the export. Cases or sources that were created by exporting items to a case can no longer be reindexed.
- Resolved an issue with incorrect progress percentages (e.g., "Processed 150% of 300 GB") when indexing a File or Folder source.
- Resolved an issue with memory errors on embedded images in PDFs not being reported when the PDF originated from a container such as a disk image or email archive.
- Resolved a rare issue where the crawling retry mechanism would result in a broken case.

### Indexing – Disk images

- Added support for discontinuous AFF4 images.
- Several disk image processing improvements related to third party library upgrades.
- Resolved an issue with disk images failing to index when certain time zones were used in the source settings.
- The volume numbering in the Specify Volume Shadow Copies screen is now consistent with the numbering in the subsequent Select Folders screen.
- Resolved an issue with AFF4 images getting skipped when indexed as part of a File or Folder source.
- Resolved an issue with indexing AFF4-L disk images made with Axiom.
- Resolved an issue with indexing disk images that contain a pool of APFS file systems.
- Resolved an issue with indexing disk images that have file names containing non-Latin characters, including umlauts (e.g., ü).
- Resolved an issue with a BitLocker-encrypted image failing to decrypt, logging a "missing password volume master key" error in the log files.
- Resolved an issue with indexing failed to complete on Linux ext2 file systems.
- Resolved an issue with indexing AD1 disk images made from CDs or DVDs.
- Resolved an issue with Intella failing to distinguish a BitLocker To Go partition from a Windows 95 boot partition.
- Resolved several issues with DMG images that failed to validate.
- Resolved an InvalidCipherTextException error that would occur when indexing AFF4 images with multiple passwords present in the keystore.

### Indexing – Email

- Improved the time needed to perform PST/OST email recovery. Field tests often reported 25-50% time savings.
- Improvements related to indexing MS Exchange EDB databases. A new EDB processor has been integrated, based on Microsoft's open-source Extensible Storage Engine (ESE) framework.

### Indexing – Chat

- Added a Conversation ID property. This lists the ID associated with the conversation as found in the evidence data. This property will not be present if the evidence data has no such value.
- Added an Intella Conversation ID property. This is a uniquely generated conversation ID that is present for all conversation items, regardless of origin. Beware that this ID will change when the source or case is re-indexed.
- Added a "Present chat messages as" source setting, which lets the user control whether chat messages are represented one-on-one as chat message items, are to be bundled into conversation items, or both.



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- The “Split chat conversations” option already allowed one to split conversations by day, week, month, or year. This list has been extended with “per hour” and “per 12 hours” options.
- Instant Messages in a Cellebrite report are no longer mapped to Conversation items. Instead, they are now represented as chat items that are assigned an Intella Conversation ID property.
- One can now use a “numbers.txt” file to specify the sender of chat messages in an evidence source. Earlier, this mechanism would only apply to the phone calls and SMS/MMS messages found in that source.
- Stability improvements to the indexing of RSMF containers, based on encountered RSMF files that used date formats not listed by the RSMF standard.
- Resolved an issue with emoticons in RSMF files not being processed correctly.
- Resolved several issues with indexing Slack exports, including missing messages, incorrect message sequences, and broken message threading.
- Resolved several issues with indexing IBM Sametime messages.
- Resolved an issue with missing chat messages when indexing an iTunes backup.
- Resolved an issue with chat messages from an iTunes backup not being threaded properly.

### Indexing – Cellphones

- Improved the processing of the Social Media Activity category of Cellebrite reports.

### Indexing – Load files

- Resolved an issue with a broken progress message when importing a load file overlay.

### Indexing – Cloud

- Rewritten the iCloud connector, resulting in reliability and performance improvements. This also resolved the problem that sometimes two different 2FA codes were sent to the phone.
- Adapted the Dropbox connector to work with Dropbox' latest API, involving the use of short-lived refresh tokens.
- Resolved an issue with access to OneDrive drives not working in certain access configurations.

### Analysis

- Added an “Image Analysis” option to the right-click menu's Process submenu. This lets the user organize a selected set of images into categories like Documents, Photos, Screenshots, and more. Additionally, the selected images can be subjected to object detection. This detects whether and where the image contains objects of interest, such as Persons, Vehicles, Handwriting, and several other object categories. The results are displayed in the new Image Analysis facet and various other places.

- When running Content Analysis, any excluded paragraphs are now excluded from analysis.
- Resolved an issue with regular expression results not being properly highlighted in the Previewer when the matches were not complete words.

### OCR

- Upgraded the bundled OCR engine, bringing various quality improvements.

### Tasks

- Added a Generate Thumbnails task.
- Resolved an issue with the date range of an indexing task changing slightly after being set. This occurred when using certain time zones only.
- Resolved an issue with the Apply button in the Sources tab not becoming enabled when the configuration of an indexing task was changed.

### Searching

- Various improvements to keyword searching based on third party library upgrades.
- Improved searching on email addresses when using wildcards, and on complex terms that mix letters, numbers, and certain symbols.
- Resolved an issue with Commented and Flagged searches not being restored when the “Restore last used queries” checkbox is selected in Preferences.

### Results

- Various improvements in the Thumbnails view:
  - Added support for video thumbnails. When hovering over the video thumbnails, selected frames of the video are shown, giving a quick impression of the video's contents.
  - Various preferences are added in the Preferences window and the Generate Thumbnails dialog to control how such video summaries are generated.
  - Added the ability to change the thumbnail size. The Generate Thumbnails dialog and processing task have been extended to specify which size(s) it needs to generate.
  - The order of the thumbnails can now be specified, using the same sorting dialog as used in the Table view.
  - A selected thumbnail can now be zoomed into from inside the Thumbnails view. This allows a user to quickly inspect visual details (recognize people, read scanned documents, etc.) without having to open the image in a separate Previewer.
  - Added a button toggling the presence of embedded images in the Thumbnails view. Note that embedded images that are selected in the Results Panel will still be shown; this button only suppresses those images that are only nested in items in that result set. These embedded images are now indicated by a gray background color.
  - Smaller usability improvements to the Thumbnails view.



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## Previewer

- When previewing a video file, the frames used for the video in the Thumbnails view are shown in the Contents tab.
- Added support for displaying WebP images.
- Improvements in displaying emojis.
- Improvements in displaying chat threads.
- Attachment titles of chat message attachments are now displayed in the Contents tab.
- Resolved an issue with the native preview tab showing an incorrect date for so-called "Fixed date" fields in MS PowerPoint slides.
- Resolved an issue with MSG emails failing to preview when they contain an embedded calendar.

## Redaction

- Resolved an issue with the export of a redacted document showing garbled rendering artifacts.

## Exporting – General

- Unified the exporting of chat messages and conversations, so that individual messages have a uniform rendering in the export results.
- Improvements in exporting emojis.
- Resolved an issue with items failing to export when their file name contained forbidden device names, such as AUX, PRN, COM1, LPT1, etc. File name normalization was already in place but failed to capture certain corner cases.
- Suppressed the logging of unsupported export template properties.

## Exporting – PDF

- Several improvements to PDF generation related to third party library upgrades.
- Resolved an issue with email bodies with inconsistent Content-Type headers failing to export.

- Resolved an issue with exporting running into file system issues when the original file had a very long file name or title.

## Exporting – PST

- Added support for exporting MS Teams messages to a PST file.

## Exporting – Load file

- See the changes listed beneath Exporting – PDF.

## Exporting – Item report

- Resolved an issue with the exporting of items having attachments, where the attachment would not be exported.

## Exporting – Relativity(One)

- Several stability improvements.
- Several performance improvements.
- The password field now masks its input with \* characters.
- Improved error logging.
- Resolved an issue where Intella hangs after completing its export.

## Exporting – Words

- Resolved an issue where the exporting of all terms in the keyword index would make Intella run out of memory.
- Words are now exported lexicographically, sorted first by field name and then by word.
- Resolved an issue with the exported words sometimes containing hidden paragraph markers ( @@@...[[ and @@@...]] ) used internally by Intella.

## Intella Viewer

- The ability to export an Intella Work Report (IWR) file has been removed. The Intella TEAM Manager product that was able to process such files has been replaced with Intella Investigator.

# Upgrade Notes

**Case versions 2.1.x to 2.5.x** – Intella 2.6 can open cases made with Intella versions 2.1.x to 2.5.x, but these cases first require conversion before they can be opened. 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 original 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.

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 2.0.x or older are not supported.

To open cases made with the 1.9.x and 2.0.x versions, please use Intella 2.5.1. This is the last version to support the 1.9.x and 2.0.x versions.

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 2.5.x range of products. Vound always recommends that users upgrade to the latest version.



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