Vound

Intella Investigator™ Release Notes

Intella™

evidence made visible

Vound
email investigation and eDiscovery software

Covering versions 2.6 to 3.1

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We will be pleased to provide additional information concerning Intella and schedule a demonstration at your convenience.

To become an Intella reseller, please contact us!

For user and technical support please visit our website:
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Contents

Intella Investigator 3.1

Highlights

- Added **Storyboards**, a new visual workspace for organizing and presenting key case insights.
- Added an **Intella device acquisition** source type, allowing processing of cellphone images acquired with Intella.
- Added support for indexing **encrypted iTunes backups**.
- Added support for indexing **WhatsApp** databases on both iOS and Android.
- **Redesigned facet UI**, for better overview and screen use.
- Improved source definitions for handling **very large M365 tenants**.
- Added a **redesigned Insight tab** and extended it with mobile devices.
- Added **searchable Intella Assist content**.
- Intella Assist content can be elevated to a **dedicated Previewer tab**, for use cases such as translation and summarization.
- Added prompt-driven **generation of Intella Assist tasks** according to best-practice defaults.

Storyboards

- The Storyboards section, located within the Reports tab, is a new visual workspace for organizing and presenting key case findings in a single, document-based view. It allows investigators to assemble different types of case information into an overview that supports both analysis and reporting. Rather than moving back and forth between separate views, users can combine important elements of a case into one place and use that overview to highlight findings, compare data points, and capture the broader context of the investigation. This makes it a practical tool not only for analysis, but also for communicating investigative insights with team members, counsel, and other stakeholders.
- Storyboards support a range of widget types that can be used to present information in the most suitable form. These include widgets for case overviews, item renderings, images, timelines, persons of interest, geolocations, sticky notes, and other chart-based visualizations.
- Widgets are placed in a document with rich text editing capabilities.
- Widgets can be added, arranged, replaced, or removed as needed, allowing users to update the view as new findings emerge.
- A Storyboard can be exported to a PDF document.

General

- Security improvements, following a recent security audit of the software.
- OCR errors and Intella Assist prompt logs can now be accessed through the View Logs functionality.
- Improved messaging in case of two-factor authentication (2FA) login failures.
- Improved handling of usernames with leading or trailing spaces, including resolving an issue where the Admin portal would become unresponsive when such a username was accidentally entered in the login screen.
- Removed admin notifications related to the ending of Internet Explorer support.

Case Management

- Improved the source creation workflow.
- Improved custodian name validation in Connect.
- Improved ICF import handling when case folder names contain non-ASCII characters.

Compound Cases

- Added support for importing Intella Assist-generated content into a compound case. Only content promoted to the core item content (i.e., visible as dedicated Previewer tabs) is importable.
- Improved handling of custodian name conflicts in compound cases.
- Improved compound case creation stability in memory-intensive scenarios.

Indexing

- Improved handling of Google Takeout naming variations.
- Improved indexing of broken PDF files.
- Added support for WinRar 7 with dictionary sizes larger than 4 GB.
- Added support for ZSTD archives, and other archive types that use the ZSTD compression method.
- Stability improvements in archive processing.
- Stability improvements in SQLite database processing.
- Resolved an issue in the Statistics display so that a case that has completed indexing no longer remains labeled as Post-processing.
- Resolved an issue where a task status was not displayed during the “Executing tasks” phase of case indexing.
- Resolved an issue where the source management buttons could be clicked during indexing, resulting in (non-critical) errors.

- Improved the Scan Logs functionality so that it recognizes crawler crashes related to an EXCEPTION_IN_PAGE_ERROR.

Indexing - Cellphones

- Added a new Intella Device Acquisition source type. This lets one index IDA files created with Intella's new Mobile Device Acquisition functionality.
- Added support for indexing encrypted iTunes databases.
- Other improvements in the indexing of iTunes databases, resulting in more complete and more accurate artifact extraction, and the ability to process larger iTunes backups.
- Added support for indexing WhatsApp chat databases found on iOS and Android.
- Added support for applying an owner's phone number (through a numbers.txt file) to native iOS chat messages (iMessage) in UFDR files. Previously this was only possible for phone calls, SMS and MMS messages.

Indexing - Disk Images

- Improved processing of BitLocker-protected data in cases involving newer BitLocker metadata variations.
- Improved processing of disk images with mixed volume shadow copy states.

Indexing - Cloud

- Usability improvements in account selection when handling Microsoft 365 tenants with lots of accounts. Only a limited number of accounts will be displayed by default. Users can filter accounts based on user-entered text, allowing one to quickly identify the matching accounts in a list of thousands or more M365 accounts.
- Adjusted the logging levels for certain Microsoft Graph errors.

Indexing - Load Files

- Resolved an issue with the importing of a load file containing SHA-1, SHA-256 or SHA-512 hashes.

Indexing - W4 Cases

- Resolved an issue where tags and comments could not be imported from a W4 case.

Crawler Scripts

- Resolved missing item.mediaType properties in the itemFound method when indexing Recycle Bin data.
- Updated the bundled Python to version 3.14.3.

Command-line Support

- Improved the handling of -replaceSourcePaths when source paths contain commas.

Intella Assist

- Added full-text indexing of Intella Assist-generated texts, such as chats in the Previewer and generated content.
- The Intella Assist facet now supports the use of Google Gemini LLM models.
- The prompt suggestions shown in the Intella Assist Chat now take the item type and available data into account. For example, a suggestion that is only appropriate for images is not shown when previewing an email.
- Introduced separate role permissions for Intella Assist Chat and Intella Assist Tasks, allowing for more granular control over feature access.
- Improvements to the system prompts, including changes to make them work better with Azure OpenAI's guardrails.
- Improved error handling and logging.
- Minor usability improvements in Intella Assist Chat.

Intella Assist - Tasks

- Added the ability to evaluate a human prompt, e.g. "Tag this item when it includes aggressive language" based on best practices for constructing Intella Assist Tasks, and deriving a concrete Intella Assist Task from this.
- Added the ability to elevate Intella Assist-generated content so that it gets displayed as a regular Previewer tab. This is useful for use cases such as translations and summarization, so reviewers can navigate to that content as they would with any other type of content.
    - Items with elevated content can be found via the Features facet, see Analysis > Intella Assist > Generated Content.
    - The elevated content can be exported to PDF.
- Minor usability improvements.

Insight

- Redesigned the Insight tab's user interface. The new design aligns with the redesigned Intella Insight tab that was introduced in an earlier version.
- The Devices section has been extended with the mobile devices listed in the top-level Devices tab.
- The Significant Words cloud no longer shows duplicate terms.

Search

- Resolved an internal error caused by specific Boolean combinations of single terms and nested phrases inside phrase and proximity queries.

Facets

- Major restructuring of the facet user interface:
    - For ease of overview and access, facets are now grouped into meaningful subgroups.
    - Keyword search is available through a text field that is always visible, regardless of facet selection.
    - Facets make better use of the available vertical space.
    - One can now drag facet values and drop them into the Cluster Map or Searches list.
    - Added a contextual menu with a Copy action in various facets.
- Added a function to create a new tag right from inside the Tags facet.
- Improved validation of tag names.
- Improved the structure of the Email Messages sub-hierarchy in the Type facet.
- Custom categories in the Content Analysis facet now also feature an icon.
- Minor changes to facet setting UIs.
- Resolved a stability issue with the handling of hash lists that consist of only a single hash.
- An error message is now displayed when there is an issue loading the Location facet content. Previously, this resulted in an infinite loading time.

OCR

- Resolved an issue where OCR using ABBYY FineReader Server would fail.

Results

- Item comments are now shown in the results table. Previously, they were only shown in a tooltip.

- Resolved an issue where changes in the Table column order that were made directly in the table, were not being persisted correctly.
- Removed the confidence threshold values shown in the Content Analysis > Person Name result sets.

Visualizations

- Improvements in the Devices tab:
    - Added a “Clear filters” button.
    - Improved messaging in cases that contain no device data.
    - Resolved an issue with an incorrect number of participants in certain chat conversations being reported.
- The popup menu in the Events view has been extended with a “Show sibling events” option. This shows all other events related to the same item, e.g. the created, last modified and printed dates of a Word document.
- Resolved an issue with missing scrollbars in the Explore tab.
- Improved performance of loading item data in Search > Table / List / Thumbnails and Devices > Application Results / Email Results.
- Improved behavior when switching between the Cluster Map, Sets and Geolocation views.
- Improved Communication tab user experience.

Previewer

- The Properties tab now also holds item information related to Content and Image Analysis, Email Threading, Intella Assist and Export Sets.
- Improved the readability of long tag paths in the tag properties panel.
- Improved handling of very long values in the Properties tab.
- The tags in the item’s tag properties are now shown in the same order as in the Tags facet.
- Usability improvements in the paragraph menu in the Contents tab.
- One can now double-click on entities in the Analysis tab, to search for them in the Search tab.
- Improved user interface updates when iterating over items in the Previewer.
- Improved the rendering of certain known timestamp standards (e.g. Standard Unix, Windows FileTime) in the Raw Data tab, by appending a human-readable formatting of that timestamp.
- Resolved an issue with the page switcher not being shown when previewing a multi-page TIFF.
- Resolved issues with the manual loading of the complete text when the item had OCRed or imported text associated with it, or when iterating over multiple items.

- Resolved an issue with the rendering of chat conversations and chat messages when an “info message” without an author was present.
- Resolved an issue with the updating of the selected tab and their tab names when iterating over items.
- Resolved an issue with the “Render full tag paths” property not working.

Background tasks

- The Background Tasks table now shows for each task which user launched it.
- Added a Duration column, showing how long a task took to execute.
- Long task names can now be fully shown in a tooltip.

Exporting

- Added a user interface for controlling export memory configuration.

Exporting - PDF

- Improved the PDF rendering of certain HTML emails and chat messages.
- Improved PDF export so that custom fonts are also applied correctly to headers and footers.
- Resolved an issue where a few options in the PDF export options automatically became unchecked upon progressing in the export wizard.

Upgrade Notes

Intella Investigator versions can be installed side-by-side. There is no requirement to uninstall old versions when installing a new Intella Investigator version. Running the new version will automatically pick up cases and settings from a previous installation.

Users are recommended to use the latest product version when creating new cases and when taking advantage of newly added source and analysis capabilities.

Case version 3.0.x – Intella Investigator 3.1 can directly open cases made with Intella and Intella Investigator 3.0 and 3.0.1.

The 3.1 release contains a range of indexing-related improvements. Users upgrading to this release may therefore see differences in indexed results, available device information, and exported output when re-indexing evidence with the 3.1 version.

Case versions 2.1.x to 2.7.x – Intella Investigator 3.1 can open cases made with versions 2.1.x to 2.7.x, but these cases first require conversion before they can be opened.

Case conversion can 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. Case conversion requires sufficient time and disk space. As a rule of thumb, please reserve twice the amount of the evidence size for your case folder.

Alternatively, for cases made with Intella 2.6 or later, case conversion can directly convert the existing case without creating a copy of the case. This manner of case conversion is considerably faster (usually a matter of seconds) and much less disk intensive. This can be a good alternative when a backup of the case already exists, saving both time and disk space. Having backups of your cases is always highly recommended.

Access to the original evidence files is not required for either manner of case conversion.

Case conversion will make the case openable in 3.1, but re-indexing of cases with cellphone or disk image data is still required to be able to utilize the new Devices tab on that data. For re-indexing, access to the original evidence files is required.

Due to a change in the underlying databases, results in the Image Categories and Detected Objects branches of the Image Analysis facet that were made with version 2.6 will not be visible when the case is opened with version 2.6.1 and later. This analysis will have to be repeated with a more recent version.

The 2.7.2 release resolved an issue for Saved Searches containing Content Analysis results. These searches would not yield any results. Saved Searches made with earlier versions that contain Content Analysis queries should be discarded and re-created; they cannot be automatically fixed.

To index Notes NSF files, a 64-bit version of Notes is required. 32-bit Notes versions are not supported.

Other case versions – Cases made with version 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.

Memory settings – The 2.7 version changed how case memory settings are stored. Prior to version 2.7, these settings were stored in both the case.xml and case.prefs files, for historical reasons. This is now only stored in the case.prefs file. Consequently, if a 2.7 or later version is used to alter the memory settings of a case made with an older version, the memory setting changes may not be picked up by older versions.

Software versions – Vound will provide technical support for one major past version. For this release that will mean the 3.0.x range of products. Vound always recommends that users upgrade to the latest version.

Intella Investigator 3.0.1

Highlights

- Added **portable case** export functionality. Portable cases contain subsets of their original case and can be opened with the free Intella Backpack application.
- **Intella Assist Tasks** can now generate columns of data.
- Added **image analysis** to Intella Assist.
- Added **Windows OS** and **iTunes backup** support to the **Devices** tab.
- Added support for indexing MacOS/iOS **iMessage/SMS** databases.
- Improved **Cluster Map**, with better rendering and interaction.
- Improved **Features facet** structure.
- Added support for **SHA-1**, **SHA-256** and **SHA-512** hashing.
- Added **Work Report** exporting and importing.
- Added **Restore Annotations** functionality, for recovering results from broken cases.

Intella Backpack & Portable Cases

- Added exporting of items to a portable case.
    - This case format consists of a single encrypted file, holding a complete case that consists of the exported items. The file is password-protected, ensuring that only the intended recipient of the portable case can use it.
    - Portable cases can be opened in Intella Backpack. This new and free desktop application allows users to review and search the items in a portable case.
    - On the technical side, Intella Backpack is deployed as a portable application. This means that it can run without installation, and without requiring administrative rights. Just unzip the ZIP file and double-click IntellaBackpack.exe. For example, it is possible to run it straight from a USB memory stick.
    - No license is required to run Intella Backpack. It will run freely and perpetually. Intella Backpack will be available to non-Vound customers as well.
    - Tags, flags and comments created by reviewers in a portable case can be transferred back to the original case using Work Reports.
- Added Work Report exporting. This allows for the transfer of work product, such as tags, flags and comments, to a copy of the case residing in another place.

- Added Work Report importing.

General

- Improved resilience against unclean shutdowns for HSQLDB databases inside case folders.
- Performance improvements in the loading and synchronizing of tagging-related data.
- Added a preference for disabling the generation of video thumbnails during thumbnail generation.
- Updated system requirements, particularly on RAM requirements.
- General performance, stability and security improvements from third party dependency updates.
- Replaced third party dependencies that are now in an end-of-life state.

Case Management

- Added functionality for transferring the annotations from a broken and unusable case to a backup of that case. This functionality previously only existed in the Intella desktop products. See the Sources > Maintenance > Restore annotations option in the Cases list.
- Added an “Update Hierarchical Metadata” option. This feature is used to update metadata fields such as Primary and Family Dates, Message Hashes and Top-Level Parents when settings are changed that affect these fields.
- Improved the logging preamble in the case log when a compound case is opened.
- Resolved a confusing “SAIL is already locked” error that could occur during source management actions that were launched while the case was indexing.
- Improved error reporting in situations where a case fails to open, and where the user would see the “Preparing case…” message indefinitely.

User Management

- Added a configuration option to control after how much time an inactive user is automatically logged out.
- Added a "Can delete flaggings from other users" permission.
- Improved the Change Password dialog, making it clear that when changing a user’s password, the admin password is needed to authorize that change.
- Improved handling of Role names that contain special characters.
- Resolve an issue where certain permission configurations could result in problems saving the global authorizations.

Indexing – General

- Added support for hashing items using SHA-1, SHA-256 and/or SHA-512.
- Added the ability to stop ongoing indexing tasks, such as OCR-ing.
- Added extraction of RSIDs (Session Revision Save ID) and Document IDs from MS Word documents.
- Improved processing of very large Excel documents, e.g. where the extracted text exceeded 1 GB of characters.
- Improved the performance of the "Rebuild secondary indices" operation.
- Improved the Notes validation process on Intella Node.
- The use of comma characters in custodian names is prohibited in the Custodian facet. The Add Source wizard, which has a setting to directly set the custodian on all items of a source, now disallows commas in the custodian name as well.

Indexing – Disk Images

- Resolved an issue where certain disk images with suspended BitLocker protection failed to index. These errors would be logged as an "unsupported FVE metadata entry version" error.
- Resolved an issue with a multi-segment L01 image produced by Forensic Explorer that failed to index.
- Resolved incorrect timestamps for disk images with FAT32 file systems when the source timezone is different from the current machine's timezone.
- Resolved an issue where certain VHDX disk images with GPT partitions could not be indexed.
- Resolved an issue where Windows 11 disk images were reported as being Windows 10 images.
- Resolved an issue in the Add Source wizard, where a disk image source path could become undefined when navigating between the wizard sheets.

Indexing – Chat Messages

- Added support for indexing MacOS and iOS iMessage/SMS databases.
- Added support for configuring the parameters of the message hashing algorithm. Previously this was only available in the desktop application.
- Improved handling of the "account_id" participant parameter in RSMF archives.
- Added support for extracting message texts from the AttributedBody column in iTunes backups.
- Resolved an issue where messages in certain iTunes backups were not properly indexed.

- Resolved an issue in chat message hashing, where non-identical chat messages got the same message hash.
- Resolved silent errors during chat message indexing. These errors are now reported appropriately.
- Resolved an issue with messages in a Slack export failing to index correctly.
- Resolved an issue with certain top-level chat messages in an UFDR file failing to index.

Indexing – Load Files

- Resolved an issue where chats, calls and calendars exported to a load file with the "Export native as PDF" option could not be imported back into a case.

Indexing – Cloud Sources

- Resolved access issues with Microsoft 365 sources due to protocol changes.

Indexing – Crawler Scripts

- Added an “item.mediaTypeCategories” attribute that holds all the type categories of that item. E.g., for an message/rfc822 item, it contains “Communication”, “E-mail”, and “Email Message”.

Commandline Support

- Added an “-appendText” option. This can be used together with the “-importText” option. It instructs the application to append rather than overwrite the imported item text.
- Resolved the "-log" parameter failing to operate in certain cases.

Devices

- Besides phones, the Devices tab now also shows Windows OS installations found in disk images. This typically reveals:
    - System artifacts such as OS setup, accounts, networks, and USB devices.
    - Installed and launched applications.
    - Common files of interest, such as messages, multimedia files, browser histories, and recently used files.
- Added support for phone and tablet devices found in iTunes backups.
- The item lists can now be sorted, e.g. by date, type or size, just like the item lists in the Search tab.

- The applications list can now be sorted by application name or by item count.

Communication

- Resolved an issue with the Find People operation not finding all people connected to the selected person.
- Resolved incorrect placement of hit highlighting markers.

Insight

- The bars in the Insight tab's Timeline are now clickable. This fires a query for that date range in the Search tab.
- Optimized performance of the Networks widget, where the loading of a large list of networks could freeze the browser.

Intella Assist

- Added the ability to analyze images through Intella Assist. This has a broad range of uses, e.g.,
    - Detecting images containing certain objects, such as guns and other weapons, hate symbols, tattoos, drugs.
    - Describing in natural language what a photo depicts.
    - Performing OCR, from scanned documents to vehicle number plates in photos.
    - Classifying images based on natural language descriptions of the categories.
- Added support for Google Gemini as an LLM provider.
- Made the tests performed by the Test Integration button more robust.
- Items that have been analyzed with Intella Assist can now be located via the "Intella Assist" branch in the Features facet. Separate nodes are used to indicate whether that analysis took place through the Intella Assist chat or via an Intella Assist Task.
- Updates to the supported WatsonX models.
- Resolved an issue where a failed Intella Assist Task execution on an item resulted in a "Failure" tag being applied on behalf of the logged in user instead of the dedicated Intella Assist user.

Intella Assist Tasks

- Added the ability to extract specific information, such as monetary amounts, people names, etc., and having that show as a sortable column in the Table.

- The number of parallel connections to the LLM service can now be specified in the Admin UI. Previously this was only configurable through a hidden preference.
- The Injected Content fields now each have a checkbox for enabling that field individually.
- Enlarged the maximum text sizes that can be entered in the various task fields.
- Rendering improvements to the task list dropdown.
- Performance improvements on executing tasks.
- Added the ability for an Intella Assist Task to remove a flagging from an item.
- Added a "Can delete flaggings from other users" permission. A particular use case of this permission is to be able to delete flags that are added by an Intella Assist Task.

OCR

- Intella will now better utilize the optimization folder for OCRing. Previously, many temporary files were stored in the case folder, which could cause issues if the case is located on a network drive. Those files will now be stored in the optimization folder, when configured. This is likely to improve performance, and also resolves certain issues with network drives.

Searching

- Improved the usability of the Features facet, by grouping the facet nodes into branches: Evidence, Review, Analysis, Indexing.
- Added the ability to set which item types to ignore when determining the direct and top-level parents of an item. Previously this was only available in the desktop application.
- Resolved the missing default Saved Search for “Possible spam” in compound cases.
- Resolved an error that would occur when a phrase or proximity search used nested phrase searches, with no space character separating them.

Results

- Improved Cluster Map rendering and interaction:
    - The rendering style now mirrors the one used in the Intella desktop application.
    - The end user can now drag the nodes in the graph around.
    - Improved zooming and node selection handling.
- Improved usability of the column chooser.

- Resolved an issue with the Table not fully reloading after bulk tagging or flagging operations.
- Resolved an issue where sorting by Family Date would not work properly after changing the Top-Level Parent search options.
- Resolved rendering issues in the Report > Volume tab.
- Resolved an issue with the Image Analysis columns showing no results.
- Resolved an error that occurred when resizing the browser window while the Geolocation view is showing.

Previewer

- Improved the rendering of items whose binary file has not been stored in the case, due to the file exceeding the item size threshold of its source.
- Resolved an issue with missing hit highlighting when a paragraph was collapsed and then expanded again.
- Resolved an issue with the Email Thread tab not rendering its graph when the user switches to a different tab and then returns to the Email Thread tab.
- Resolved an issue with the "Include item metadata" setting in Redaction Profiles being applied incorrectly.
- Resolved an issue with pinned tags appearing in the wrong slots.
- Resolved an issue with the Show Family action not launching that search in the Search tab.

Exporting – General

- Resolved an issue that prevented exporting items when the items table was sorted by a custom column.

Exporting – PDF

- Resolved an issue when exporting an HTML email with an invalid "href" link to PDF format.
- Resolved an issue where some PDFs could not be rendered due to incorrect font substitution.
- Resolved an issue where HEIC images were not rendered in the PDF in some cases.

Exporting – RelativityOne

- Direct export to Relativity can now be done via the new Import Service API. This also simplifies the installation process of Relativity's dependencies.

Upgrade Notes

Intella Investigator versions can be installed side-by-side. There is no requirement to uninstall old versions when installing an Intella Investigator version. Running the new version will automatically pick up cases and settings from a previous installation.

Case version 3.0 – Intella Investigator 3.0.1 can directly open cases made with version 3.0.

Case versions 2.1.x to 2.7.x – Intella Investigator 3.0.1 can open cases made with versions 2.1.x to 2.7.x, but these cases first require conversion before they can be opened.

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Software versions – Vound will provide technical support for one major past version. For this release that will mean the 2.7.x range of products. Vound always recommends that users upgrade to the latest version.

Intella Investigator 3.0

Highlights

- Added the **Devices tab**, a new interface for efficient reviewing of **phone data** such as chat messages, photos, geolocation artifacts, and more.
- Added the **Communication tab**, a new interface for reviewing emails, chats and other communications between individuals.
- Added **Intella Assist Tasks**, allowing user prompts to be run over collections of items.
- Added **Devices** and **Applications** facets to the Search tab, locating items of specific devices and applications.
- Added support for **re-indexing selected items**.
- Improved support for **Google Takeout** exports.
- **Simplified memory management** and **improved memory usage**, particularly for indexing.
- Added support for **indexing evidence stored locally** on a Node server.
- Added support for **RDS Hash Sets v3 (SQLite)** hash lists.

Devices tab

- The newly added Devices tab offers a dedicated and streamlined environment tailored to the investigation of digital devices, especially mobile phones. Recognizing the growing significance of mobile devices in digital forensics, this interface consolidates crucial information in a top-down approach.
    - Users can quickly view the list of all phones in a case. Supported phone extraction formats are Cellebrite, XRY and Oxygen phone reports.
    - Other types of devices, e.g. disk images, are planned for addition in a future release.
    - Selecting a device provides immediate visibility into essential details such as make, model, and owner information. Investigators can drill down further, exploring prominent data categories (e.g., images, messages, calls, locations) and installed applications in a near-native presentation. For example, selecting a messaging app like WhatsApp will intuitively reveal chat conversations, as they are typically the most pertinent and sought-after type of information for this app. Other apps may show views such as browser histories, images, and geolocation data, as deemed appropriate for the selected app.

- The Devices view accelerates the examination process. Faster triaging of devices, easy contextualization of items found on a device, and intuitive navigation are just some of the benefits, making device-specific investigations faster and more intuitive.

Communication tab

- The newly added Communication Tab provides a specialized user interface for presenting communications (emails, chats and phone calls) involving selected individuals.
  - At its core, it allows for simple queries such as "Show me all emails exchanged between x@gmail.com and y@gmail.com in March 2024".
  - Several types of elaborate searches are supported, such as limiting the results to exclusive conversations (e.g. emails not involving any others) or within a select group of individuals.
  - The Communication flow between the selected individuals is displayed as a dynamic and interactive social graph, revealing information flows and communication patterns.
  - When one clicks an individual or communication path in the graph, the corresponding items are listed in a table beneath the graph. Emails in the table are grouped by their email thread, for a better overview.
  - Individual items can be previewed from within the Communication tab, where they can also be tagged or have a reviewer comment added to them.
  - The Communication tab emphasizes context-driven exploration. It lets reviewers start with specific individuals, view their direct contacts, and progressively expand the visualization to capture a wider range of communications and communication patterns.

Intella Assist Tasks

- The Search tab has been extended with an Intella Assist subtab. Reviewers can define a task in a wizard and let Intella Assist process it in the background on a collection of items. Intella Assist tasks can analyze items, e.g., for traces indicating fraud, certain sentiments, or just to create a summary or translation – using instructions formulated entirely in natural language.
- An example use case could be an investigator tasked with reviewing thousands of messages for evidence of potential insider trading. A manual review could take days or weeks. That investigator can now create a task configured specifically to analyze communications for red flags such as suspicious financial terms, unusual urgency, or sensitive topics referenced indirectly. After testing the task on a few sample items and fine-tuning it as needed, the investigator runs it across the

selected set of items. Within minutes, the investigator receives a clearly tagged and summarized set of suspicious items, allowing the investigator to rapidly focus on the items of the highest relevance. Additionally, the task's analytical depth, enabled by AI, identifies subtle patterns and contextual clues that might otherwise be overlooked in manual reviews.

- How it works:
    - A wizard in the Intella Assist tab guides users through the process of defining a task. This entails providing contextual information about the matter at hand, the key people involved (if known upfront), instructions on how to flag or tag items, and/or what text to generate.
    - A library of predefined tasks, e.g. for looking into potential insider trading, harassment, unauthorized data access, or use of foreign languages, provides instruction-by-example, inspiration, and can be built upon.
    - A test run can be done on a few items to review the task output. This allows fine-tuning of the new task prior to running it on the whole collection.
    - The task can then be run on the selected collection of items. The task will be executed in the background.
    - Task outputs can be reviewed in the Tags facet and in the Intella Assist sidebar in the Previewer. Results can be reviewed in real time; no need to wait for Intella Assist to finish running the task.
    - Results of different tasks, or different runs of a task, are clearly marked as such and can be reviewed separately.
    - Tasks are executed using the configured Large Language Model (LLM) provider. This allows for the use of local and air-gapped environments (e.g. using the Ollama or vLLM frameworks) as well as several cloud-hosted providers that are supported out-of-the-box.
    - All operations carried out by Intella Assist, including Intella Assist Tasks, can be fully audited.

Case management

- Usability improvements in the case creation dialog:
    - It now checks whether the entered case folder name already exists.
    - Improved the derived suggested folder name when the case name contains characters that cannot be used in the file system.
- Prior to adding a source, a disk space check is now done to ensure that the drives holding the case folder and optimization folder have sufficient space left.

- Added a “CaseServerIdleTimeout” property, defining after how many minutes of no detected user activity the case becomes inactive. The default is still set to 30 minutes.
- Resolved an issue with compound cases not correctly merging custodian information from its sub-cases.
- Resolved an issue with opening compound cases that contain a W4 source in one of their sub-cases.
- Resolved an issue where tasks added with the "Add Source" option using a previous product version would not display properly in later versions.
- Resolved an issue with the memory settings not being editable on a case requiring case conversion.

Memory management

- The memory settings in the Cases list have been reduced to a single parameter that controls how much memory the case is allowed to use when the case is shared for review. One can either leave this to “Auto” or manually set it to a specific value.
- Indexing-specific memory settings on the case level have been replaced by Node-specific settings that are configured in Admin UI > Servers > Nodes > Indexing.
    - This change improves setups where multiple Nodes are used that have different amounts of system RAM. The new method will ensure that each Node’s RAM is fully utilized.
    - When Memory Allocation is set to “Auto”, indexing will now consume all available system RAM better. This reduces the chance of an Intella Node process running out of memory, particularly on systems with > 32 GB RAM.
    - A new “Manual” mode has been introduced, where a single slider can be used to govern how much RAM all indexing processes combined can use. The default value equals to what the “Auto” mode will use. Users can reduce this if the system is meant to be running other heavy-weight processes at the same time.
    - A new “Advanced” mode has been introduced, in which users can individually configure how much memory should be reserved for the index management operations and for each crawler. The expectation is that users will not have to configure this unless instructed by Vound’s Support staff to do so.

Indexing – General

- Added the ability to re-index specific items in the case. This allows for retrying indexing with e.g. improved memory settings, additional passwords in the Keystore, or other changes external to that item that affect its indexing.
    - Before this change, only entire sources or the entire case could be re-indexed. Selective re-indexing will be faster and less intrusive for ongoing cases.
    - All tags, flags and comments of the affected items will be retained.
    - Selective re-indexing may still take considerable time due to the need to remove items from the case indices, as well as recalculation of certain case-wide indices. While it is typically a lighter operation than re-indexing of an entire source or case, it may not be an instant operation due to these factors.
- Added a dedicated Google Takeout source. While Google Takeout exports could already be indexed, this version enhanced the processing of Takeout-specific information, improving the ease of reviewing the information found in it.
    - A Google Takeout source configuration allows for selecting specific parts of a Takeout export (e.g., Mail, Drive, Calendar, etc.) and selected folders within Drive.
    - Emails are organized in folders in the Location facet that reflect their Gmail labels.
    - Drive files that are scattered across multiple Takeout ZIP files are shown in a unified folder tree in the Location facet.
    - Improved indexing of chat messages, mirroring how chat data in other evidence types is typically processed.
    - Unified views of vCards, tasks, events and tasks found in the Takeout export.
- Added support for the Reference Data Set (RDS) Hash Sets v3 format, which is in SQLite format.
- Intella Node can now index from and to local folders – and still to shared folders as well, as before. This results in performance gains and improved stability during indexing due to networking being taken out of the equation. It comes at the likely cost of having to move the case afterwards.
- When (re-)indexing a source, a warning is now displayed when the case is configured to use an amount of memory that is likely insufficient for the number of items in the case.
- When a source is about to be added to a regular (non-compound) case, and it would bring the total amount of evidence data in the case to be above 1 TB (terabyte), a warning is now shown. While such large non-compound cases may technically work on adequate hardware, the practice of spreading evidence data

across multiple sub-cases and combining them into a compound case is generally recommended, for stability and case management reasons.
- Resolved an issue with a custodian indexing task failing to execute when it specified a custodian name containing a comma.
- Resolved an issue with custom indexing tasks executing out of the specified order.
- Resolved an issue with certain file permissions or missing configuration files causing a source to silently fail to index.
- Resolved an issue where a local firewall could interfere with inter-process communication, affecting indexing and exporting.
- Several unspecified stability improvements.

Indexing – File formats

- Added support for Notes 12 and 14. A 64-bit Notes version is now required.
- Added support for Windows Push Notifications artifacts (wpndatabase.db files).
- Added support for Windows Sticky Notes databases.
- Added support for Start and End dates for call items in MS Teams PST files.
- Resolved an issue with headers and footers only being extracted from the first section of an old MS Word format document (DOC files, not DOCX).
- Improvements to the processing of various office documents due to library upgrades.
- Resolved an issue with inconsistent Apple Mail indexing results when the evidence was placed on a network drive.

Indexing – Cellphones

- Reviewed all supported cellphone formats to ensure complete and appropriate processing of all major artifacts (messages, calls, images, etc.) in phone dumps. This resulted in several small improvements and optimizations.
- Resolved an issue with incomplete raw data in contacts extracted from an iTunes backup.
- Resolved an issue with missing timestamps in Oxygen reports.
- Resolved incomplete (infinite) processing of Cellebrite UFDR reports due to an illegal XML structure occurring in these files.

Indexing – Chats

- Resolved an issue with RSMF archives where the account_id property was not taken into account properly.
- Resolved issues with the indexing of certain Skype chat messages.
- Improvements to the handling of edited and deleted messages in a Slack export.

- Improvements to the handling of participants in Pidgin chats.
- Improved the "Structured Message Hash" calculation of chat messages, improving deduplication on such items.

Indexing – Emails

- Added support for Outlook for Mac 2011 (OLK14) files.
- Resolved an issue with the determination of the Recipient Count on emails with several different display names associated with the same email address.

Indexing – Disk images

- Improved detection of deleted items in FAT16 partitions.
- Resolved an issue with an AFF4 image of an encrypted APFS file system failing to index properly.
- Resolved an issue with very slow or infinite processing of certain Linux disk images.
- Improved stability when indexing ISO disk images with a CDFS file system.
- Several stability improvements related to the handling of corrupt disk images.

Indexing – Load files

- Fixed a rare problem where importing a load file with an excessively large number of images could trigger a crawler timeout error.

Indexing – Cloud

- Updates to the iCloud source, reflecting changes in Apple's iCloud protocols. These protocol changes broke the ability of older product versions to retrieve any items from iCloud accounts.

Indexing – Crawler scripts

- Added the ability to import custom item texts.
- The Top-Level Parent settings for crawler scripts can now be controlled via the "Search - Show Parents Options" preferences.
- Resolved an issue where the Document ID column could not be modified via a crawler script.

IntellaCmd

- IntellaCmd now supports more options for adding sources via the "-addSourcesFromJson" method. Examples are provided in the User Manual.

- Resolved an issue with the “-rebuildIndexes” operation failing due to a time-out on the clearing and backing up of certain files.
- Optimized performance when importing texts via the "-importText" command line option.

Users & Permissions

- Added the “admin” user to the users list in the Users > Accounts tab.
- Resolved an issue with disabling of the “Can see components showing activities of other users” permission not hiding the Report > Activity tab. It would only respond to the “Main UI: can use Report” permission.
- Resolved an issue with Global Assignments failing to save for certain role configurations.
- When changing a user password, the form will now ask for the password of the user performing this action.

Intella Assist

- Added the possibility to configure the maximum data length (in characters) per field type (text, raw data, headers and/or properties) that may be included in a prompt sent to the LLM provider.
- Adjusted Intella Assist’s system prompts to make sure that an Intella Assist response uses the same language as the request – unless explicitly requested otherwise by the user.
- Stability improvements in Intella Assist's Azure OpenAI integration.
- When using an LLM hosted on Azure OpenAI, the Intella Assist facet will now be enabled if the Azure OpenAI deployment name matches any of the supported OpenAI models.
- Added support for the Llama 3.3 model on the WatsonX platform.
- The API Key of the configured LLM is no longer immediately visible when opening the Intella Assist configuration tab.

Searching

- Added the Applications facet, which lists apps found on cellphones and allows for all items associated with these apps to be located. Applications are grouped into categories such as Communications, Social Media, Navigation, Finance, etc.
- Added the Devices facet, which lists detected phones in the case and allows for all items associated with these phones to be located.
- The facet list has been resorted, putting the most-often used facets (Location, Type, Date, etc.) at the top of the list.

- Added support for using fuzzy search syntax within phrase searches, e.g. “driving license~”.
- Added an Auto-tag feature to the Keyword Lists facet. This allows for items returned by a query in the list to be tagged with either that query or a custom tag.
- The Content Analysis facet has been enhanced with preview functionality, allowing users to see the output of a Content Analysis category (e.g. “Person Names”) on a given item.
- The Content Analysis facet now prohibits users from creating categories without a name and/or regular expression.
- Improved usability of the table column chooser.
- Resolved an issue with the Settings dialog and/or Items Table not loading after an Export Set had been deleted.

Results

- Resolved handling of MIME types for certain items extracted from cellphone reports and MS Outlook email containers.
- Resolved an issue with background tasks being executed out of their listed order.
- Resolved an issue with the Cluster Map not updating properly when a second Required clause was added and then removed.

Analysis

- Resolved an issue where OCR would fail when an optimization folder was set.
- Resolved several (sometimes fatal) errors that could occur when running email threading.

Identities

- Added the option to sort identity suggestions by name, item count, or number of aliases.
- Resolved an issue with the calculation of identity suggestions.

Previewer

- When viewing an image, one can now rotate, zoom or flip the image.
- The Previewer now indicates stub items, e.g. originating from a case exporting/merging operation.
- Added an Analysis tab, showing all Content Analysis and Image Analysis artifacts found in an item.

- Added an Advanced tab, showing the metadata that has been stored in the case for the previewed item. This tab is initially hidden and is typically only requested to be used by Vound's Support team to resolve technical issues.
- Usability improvements in the Thumbnails tab.
- Improved native rendering of items due to several library upgrades.
- Resolved an issue with an empty Previewer being shown after a user's session timed out.
- Resolved an issue with the Previewer showing a "Failed to load hit terms" error when previewing an item while an Email Address query result is displayed in the Search tab.

Exporting – Original Format

- Resolved an issue with the "Original Format" export of chat conversations not reflecting the chat message sender correctly.

Exporting – PDF

- General improvements to the native rendering of items due to several library upgrades.
- Resolved an issue with exporting chat messages to PDF, where images could incorrectly overflow to other pages.

Exporting – Relativity

- The minimal supported version is now Relativity 9.7. Direct export to older versions of Relativity is no longer supported.

Exporting – Case

- When exporting items to a new case (e.g. an empty or portable case), the item IDs in the exported case are now equal to the item IDs in the original case. Note that when exporting items to an existing case, the item IDs still need to be different to avoid conflicts.

Upgrade notes

Intella Investigator versions can be installed side-by-side. There is no requirement to uninstall old versions when installing an Intella Investigator version. Running the new version will automatically pick up cases and settings from a previous installation.

Case versions 2.1.x to 2.7.x – Intella Investigator 3.0 can open cases made with versions 2.1.x to 2.7.x, but these cases first require conversion before they can be opened.

Case conversion can 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 version. Case conversion requires sufficient time and disk space. As a rule of thumb, please reserve twice the amount of the evidence size for your case folder.

Alternatively, for cases made with version 2.6 or later, case conversion can directly convert the existing case without creating a copy first. This manner of case conversion is considerably faster (usually a matter of seconds) and much less disk intensive. This can be a good alternative for when a backup of the case already exists, saving both time and disk space. Having backups of your cases is always highly recommended.

Access to the original evidence files is not required for either manner of case conversion.

Case conversion will make the case openable in 3.0, but re-indexing of cases with cellphone data is still required to be able to utilize the new Devices tab. For re-indexing, access to the original evidence files is required.

Due to a change in the underlying databases, results in the Image Categories and Detected Objects branches of the Image Analysis facet that were made with version 2.6 will not be visible when the case is opened with version 2.6.1 and later. This analysis will have to be repeated with a more recent version.

The 2.7.2 release resolved an issue for Saved Searches containing Content Analysis results. These searches would always yield no results. Saved Searches made with earlier versions that contain Content Analysis queries should be discarded and re-created; they cannot be automatically fixed.

To index Notes NSF files, a 64-bit version of Notes is now required. 32-bit Notes versions are no longer supported.

Other case versions – Cases made with version 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 or Intella Connect 2.5.1. These are the last versions to support the 1.9.x and 2.0.x versions.

Cases made with beta versions are not supported and should be recreated.

Memory settings – The 2.7 version changed how case memory settings are stored. Prior to version 2.7, these settings were stored in both the case.xml and case.prefs files, for historical reasons. This is now only stored in the case.prefs file. Consequently, if a 2.7 or later version is used to alter the memory settings of a case made with an older version, the memory setting changes may not be picked up by older versions.

Software versions – Vound will provide technical support for one major past version. For this release that will mean the 2.7.x range of products. Vound always recommends that users upgrade to the latest version.

Intella Investigator 2.7.2

Highlights

- **Intella Assist** improvements: **prompt optimizations**, support for **IBM WatsonX**.
- Improved searching for **emojis** and **acronyms**.
- Added full disk image support to **IntellaCmd**.
- Added a function to **export all words** from a set of items.

Case Management

- Resolved an issue with cases sometimes staying listed as active in the Diagnostics Report, despite no user activity or background tasks taking place in the case anymore.

Authorization

- Resolved an issue with the protection layer against CSRF (Cross Site Request Forgery) attacks inadvertently logging out users.

Indexing – General

- Resolved an issue with missing Raw Data properties in the XMP section of a PDF document.

Indexing – Disk images

- When validating and indexing AFF4 disk images, sub-folders will no longer be scanned. Only the current folder will now be scanned for disk image parts. This improves the time needed to validate disk images when there is a deep folder structure present in the local file system holding the disk image files.
- Improved stability when indexing ISO and DMG disk images.

Indexing – Email

- Resolved an issue where emails inside OLK15 files were not identified as Top-Level Parents.

Indexing – Chat messages

- Resolved an issue with indexing the SubstrateHolds folder in a MS Teams PST file.
- Resolved an issue with messages from RSMF archives not indexing properly when multiple messages in the archive have the exact same timestamp.
- Improved the performance of indexing messages from a Slack export, when that export contains a large amount of edited or deleted messages.

Indexing – Cloud sources

- Updates to the Gmail and Microsoft 365 sources, reflecting server-side changes made by these vendors.
- Improved indexing and rendering of tables in iCloud Notes items.
- Resolved an issue with the selection of Google services not working properly.

Indexing – Load files

- Resolved an issue where switching to the "Image preview" tab during load file source creation resulted in the user being redirected to the Cases list.

IntellaCmd

- Added support for indexing disk images. These could already be indexed as files in a Folder source, but now the full set of disk image source options is supported. For example, disk image validation, volume shadow copy options, file carving, etc. can now be controlled on the command-line.
- Resolved an issue with the -indexChatMessages (-icm) option not working properly.
- Resolved an issue with a password list not being imported into the keystore.
- Resolved an issue with the case's temp folder setting not being picked up.
- Resolved an issue with a case template's optimization folder setting not being picked up.

Intella Assist

- Added support for models shared on the IBM WatsonX platform. Currently supported models are:
    - granite-13b-chat-v2
    - mixtral-8x7b-instruct-v01
    - llama-3-8b-instruct
    - llama-3-70b-instruct

    - llama-3-1-8b-instruct
    - llama-3-1-70b-instruct
- Prompts generated by Intella Assist in the Previewer will now only include and submit those item parts (text, headers and/or raw data) needed to answer the user's question. This reduces API costs due to less tokens being generated, and speeds up processing of the prompt. Furthermore, it reduces the chance of context limits to be reached, especially for smaller models.
- Added a (hidden) option to re-enable the Intella Assist facet when a model is used that is not part of OpenAI's family of gpt-4 models.

Searching

- Added support for searching for emojis. Previously this was only possible via regular expression search. Now, emojis can be directly entered in the Search field too. For this type of search to work, re-indexing of existing cases made with 2.7.1 or older is required.
- Improved searching for acronyms, such as "U.S. Bank".
- Resolved an issue where Saved Searches involving Content Analysis facet categories produced no results. Existing Saved Searches for this type of query should be discarded and re-created; they cannot be automatically fixed.
- Improved the loading process of several facets after the case was awakened from Standby mode.
- Resolved an issue with the "OCR candidates" case task querying for JPEG files instead of PNG files, or vice versa, when only one of these options was selected.

Results

- Resolved an issue with table sorting producing incorrect results when the table sort order is toggled repetitively and quickly.
- Resolved an issue where table cells showing email senders/recipients would only show the contact's name but not the email address.

Previewer

- Improved HEIF image support.
- Resolved an issue where links to the previous and next conversation items in the Previewer could not be rendered for some items.
- Resolved an issue with previewing calendar items in compound cases.

Exporting – PDF

- Improved rendering of the JPEG2000 (.jpx) image format.

- Resolved an issue with some emails with very wide inline pictures rendering incorrectly in the generated PDF.

Exporting – PST

- Resolved a rare issue where exporting emails to a PST with the “Keep location structure” turned on would produce a "The folder with same name already exists" error.

Exporting – Relativity

- Updates to the functionality for exporting to Relativity(One) instances, ensuring that it supports recent Relativity versions.
- Resolved a harmless “NotSerializableException” error when exporting to Relativity.

Exporting – Words

- Added a background task for exporting all words used in a set of items to a text file, e.g. for use in a password cracking tool. For each word, the field name (corresponding with the options in the Search options panel) and document frequency are optionally listed.

Retiring functionalities

Intella Viewer – In a future release, Intella Viewer’s ability to connect to a case shared by Intella Connect or Intella Investigator will be removed. Intella Connect and Intella Investigator will be able to deliver those functionalities entirely via the browser.

Upgrade notes

Intella Investigator versions can be installed side-by-side. There is no requirement to uninstall old versions when installing an Intella Investigator version.

Case versions 2.6.x and 2.7 – Intella Investigator 2.7.2 can open cases made with versions 2.6.x and 2.7.x. No case conversion is needed.

Due to a change in the underlying databases, results in the Image Categories and Detected Objects branches of the Image Analysis facet that were made with version 2.6 will not be visible when the case is opened with version 2.6.1 and later. This analysis will have to be repeated with a more recent version.

The 2.7.2 release resolves an issue for Saved Searches containing Content Analysis results. These searches would always yield no results. Existing Saved Searches containing Content Analysis queries should be discarded and re-created; they cannot be automatically fixed.

Case versions 2.1.x to 2.5.x – Intella Investigator 2.7.2 can open cases made with Intella 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.

Memory settings – The 2.7 version changed how case memory settings are stored. Prior to version 2.7, these settings were stored in both the case.xml and case.prefs files, for historical reasons. This is now only stored in the case.prefs file. Consequently, if the 2.7(.x) version is used to alter the memory settings of a case made with an older version, the memory setting changes may not be picked up by older versions.

Microsoft SharePoint – Version 2.7.2 no longer supports local, on-premises SharePoint servers. Version 2.7 was the last version supporting this source type.

Cloud-based SharePoint instances are not affected by this change, as they can be retrieved using the M365 source type. Existing cases with local SharePoint sources can still be opened.

Software versions – Vound will provide technical support for one major past version. For this release that will mean the 2.6.x range of products. Vound always recommends that users upgrade to the latest version.

Intella Investigator 2.7.1

Highlights

- Intella Assist enhancements: support for **GPT-4o**, **OpenAI API-compatible models**, **local models** and **search suggestions**.
- Added support for **file carving**; recovering deleted items from unallocated space in disk images.
- Improvements to the handling of **privileged items**.
- Added support for acquiring data from **Google Meet**.
- Added support for indexing **MS Visio VSDX** files.
- Added functionality for **repairing broken cases**.

General

- Major updates to the user interface libraries and frameworks, bringing a faster, more responsive and future-proof user interface.
- Tested that the applications work correctly and efficiently when using the IPv6 protocol.
- Improved the name of the Desktop shortcut to the check-service.bat executable, which is placed when installing the application as a Windows service. The old shortcut name could result in users expecting this shortcut to start the service.

Licensing

- Introducing two new editions: Intella Investigator Medium and Intella Investigator Large. Investigator Medium allows up to 5 active cases with up to 10 concurrently active users. Investigator Large allows up to 10 active cases with up to 20 concurrently active users.

Authentication

- Simplified the process of adding a standard Active Directory instance as an LDAP provider, where the user only needs to provide the user accounts location and a group membership.
- Performance improvements in the loading of user data from an LDAP server.

Authorization

- Enhancements to the exporting and downloading of items that are subject to the "Cannot see items tagged with …" permission. A common use case of this permission is to suppress privileged items from a review. It may happen that a reviewer tries to export or download items that have child items that are hidden by this permission. For example, a user may attempt to download an email that contains a hidden attachment. When this occurs, the export or download is now blocked, as the native form of the parent item would reveal the restricted child item(s). The user gets to see a dialog explaining that the operation is blocked.
- Starting with this release, the default administrator account will now receive the "Can configure servers in Intella Grid" permission by default. This does not affect existing installations.

Case Management

- Resolved an issue with the admin user not being able to remove cases in a very old case format.
- Resolved an "Error while loading activities" error message in a case details' Activity tab when there was no previous user activity.

Intella Assist

- The GPT-4o ("omni") model is now the default OpenAI model.
- Added support for using any model that uses the OpenAI API. Besides alternative hosted LLMs, this also opens the door to using locally hosted LLMs.
- The Intella Assist facet has been extended with a Suggestions component, listing examples of searches that can be done with Intella Assist.

Indexing – General

- Added support for indexing MS Visio VSDX files.
- Removed support for indexing local, on-prem SharePoint sources. Cloud-based SharePoint instances are not affected by this change, as they can be retrieved using the M365 source type.
- Added logging of the used indexing options.
- Resolved an issue with the "Enable unsupported version" option in Intella Node's IBM/HCL Notes settings still not allowing for an unsupported version to be used.
- Resolved Intella Node failing to show an error when the geolocation database could not be validated.
- Resolved Intella Node failing to revalidate source and Node server settings when re-indexing a case.

- Resolved an issue with users not being able to use an entire drive as an evidence path in a source.
- Improved indexing performance when processing emails and chat conversations with very large numbers of recipients.

Indexing – Disk images

- Added support for file carving: the process of recovering deleted items from the unallocated space in a disk image. This requires the PhotoRec utility, which can be downloaded automatically. Currently, E01 and DD images are supported. Carving runs in parallel with regular indexing, to optimize speed. File carving requires the use of the Disk Image source; disk images that are indexed as part of a "File or Folder" source will not be carved.
- Improved checksum validation of AFF4 images. For AFF4 physical images, checksum validation is an optional step during disk image validation when using the Disk Image source type. For AFF4-L logical images, failed checksums are reported as exceptions in the Features facet and in the Exceptions report.
- Resolved an issue with disk images containing NTFS file systems that were decrypted by AXIOM. Incorrect NTFS data structures would cause some folders to be regarded as corrupted and subsequently skipped.
- Resolved an issue with incorrect (garbled) partition names on ext4 and FAT16 file systems.

Indexing – Cellphones

- Resolved an issue where chat messages with identical content could mistakenly be responsive to certain keyword queries.
- Resolved an issue with interrupted crawl processes when indexing very large (> 100 GB) UFDR files.
- Improved memory usage when indexing Cellebrite reports with a large number of chat messages.

Indexing – Cloud sources

- Extended the Google source with support for Google Meet.
- Improved indexing and rendering of tables in iCloud Notes items.
- Resolved an issue with Find my Phone artifacts in iCloud sources.

IntellaCmd

- Added an option to rebuild the indices in a case. This operation regenerates the secondary indices that are derived from the data gathered during crawling. This

can be used to repair cases that fail to open or that show other forms of erratic behavior, especially in cases where no backup is available. As a precaution, users are still advised to run this operation on a copy of the broken case.

Log Viewer

- Various minor usability improvements.

Results

- Resolved an issue with the Mime Type column not rendering the item MIME types properly.
- Improved handling of items with alternative, less commonly used MIME types.

Previewer

- Resolved an issue with the Previewer not showing an item when that item has no MIME type associated with it.

Tagging

- Commas in tag names are no longer allowed, unless when properly escaped. This prevents issues in other subsystems that process tag data.

OCR

- The default time-out of OCR workers of the embedded OCR engine has been changed from 30 minutes to 2 hours. The previous time-out value caused too many documents to fail unnecessarily.
- Added a cap on the number of OCR workers for stability reasons.

Exporting – PDF

- Resolved an issue with certain calendar items failing to export.
- Resolved an issue with annotations such as comments in a PDF getting lost when exporting the item to a PDF.
- Resolved an issue with incorrect positioning of headers and footers in landscape-oriented PDF documents.
- Resolved an issue where Intella did not add a numbered suffix to a file name (e.g., “document(1).pdf”) when exporting multiple items with the same file name or subject to PDF.
- Resolved an issue with certain characters not rendering properly in the generated PDF, whereas they would render fine in the Previewer.

Exporting – Load files

- The PDF-related improvements listed above also apply to the exporting of load files using the PDF or TIFF file formats.
- Resolved an issue where the "Also include PDF versions of images" setting was ignored when exporting to a load file. The default “Images” folder was used instead.

Retiring functionalities

Intella Viewer – In a future release, Intella Viewer’s ability to connect to a case shared by Intella Connect or Intella Investigator will be removed. Intella Connect and Intella Investigator will be able to deliver those functionalities entirely via the browser.

Upgrade notes

Intella Investigator versions can be installed side-by-side. There is no requirement to uninstall old versions when installing an Intella Investigator version.

Case versions 2.6.x and 2.7 – Intella Investigator 2.7.1 can open cases made with versions 2.6.x and 2.7. No case conversion is needed.

Due to a change in the underlying databases, results in the Image Categories and Detected Objects branches of the Image Analysis facet that were made with version 2.6 will not be visible when the case is opened with version 2.6.1 and later. This analysis will have to be repeated with the more recent version used.

Case versions 2.1.x to 2.5.x – Intella Investigator 2.7.1 can open cases made with Intella 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.

Memory settings – The 2.7 version changes how case memory settings are stored. Prior to version 2.7, these settings were stored in both the case.xml and case.prefs files, for historical reasons. This is now only stored in the case.prefs file. Consequently, if the 2.7(.1) version is used to alter the memory settings of a case made with an older version, the memory setting changes may not be picked up by older versions.

Microsoft SharePoint – Version 2.7.1 no longer supports local, on-premises SharePoint servers. Version 2.7 was the last version supporting this source type.

Cloud-based SharePoint instances are not affected by this change, as they can be retrieved using the M365 source type. Existing cases with local SharePoint sources can still be opened.

Software versions – Vound will provide technical support for one major past version. For this release that will mean the 2.6.x range of products. Vound always recommends that users upgrade to the latest version.

Intella Investigator 2.7

Highlights

- Added **Intella Assist**, an AI-powered assistant based on OpenAI's ChatGPT that helps with formulating search queries and reviewing results.
- Redesigned **Source** and **Export** wizards.
- Added an **integrated log viewer**.
- **Identity improvements**, such as mass importing and exporting of identity data.
- Added the ability to directly export items to an on-premises **Relativity** or **RelativityOne** instance.
- Added exporting to the **AFF4-L logical image** format.
- A variety of indexing improvements related to **chat messages**, e.g. support for **Google Chat**.
- Added support for **EDRM MIH hashes**.
- Added **source filters**, letting one filter items based on file name or size.
- **2 to 5 times faster exporting** to PDF and load file formats.

Intella Assist

- An AI-powered assistant called Intella Assist has been added. Based on ChatGPT, this assistant lets the user enter and refine queries using natural language, across a range of facets. Examples of searches:
    - "Give me all JPEG images larger than 1 MB"
    - "Search for invoices, using both English and Spanish words related to invoicing"
    - "Find all emails sent by john.doe@gmail.com between January 15, 2019 and September 1, 2019"
- Intella Assist is also integrated in the Previewer, where users can inspect and analyze items using natural language instructions. Examples of instructions:
    - "Summarize this document"
    - "Translate this document"
    - "Do the SMTP headers of this email show any signs of data tampering?"
    - "Who are the key persons named in this document?"
    - "What personally identifiable information does this document contain?"
    - "Where there any negative sentiments expressed in this conversation?"

- To use this functionality, the server admin needs to specify a provider and an API key for that provider. Currently supported providers are OpenAI and Azure OpenAI. Furthermore, reviewers need a role with the “Can use Intella Assist” permission.
- Admins should take note of several critically important caveats.
    - Using Intella Assist involves submitting parts of evidence data (text and metadata) to external services. The sensitivity and confidentiality of the data may make this undesirable or even illegal.
    - All prompts sent to ChatGPT are logged and available for auditing.
    - This functionality is experimental. The provided results may be incorrect and incomplete. Asking the same query again may not yield the same results.
    - Processing of the data by these services is subject to billing. All processing costs are for the owner of the API key.
    - End users will be shown warning dialogs expressing these risks. Nevertheless, they need to be educated in the proper handling of sensitive evidence data and the assessment of ChatGPT-generated results.
- Integration of this functionality in the Intella desktop application is planned for a future release. Contact Vound Support to be notified when an early access version becomes available.

General

- The memory requirements for all server-based products have been adjusted.
- Resolved an issue with the main branding logo (the Connect logo or the organization-specified logo) linking to the case dashboard rather than the user dashboard.

Installer

- When installing a product as a Windows service, an explicit dependency of the product’s service on the Sentinel LDK License Manager service is now registered in Windows. This prevents the server application from launching before the license manager is running, which could cause licensing errors.
- Resolved an issue with the Node desktop shortcut not being added when using the Custom profile during installation.
- The Investigator installer now also places an IntellaNode.l4j.ini file when Intella Node is installed.
- Resolved blurry desktop and taskbar icons when using high-resolution screens and display scaling.

- Resolved an issue with applications not uninstalling when uninstalled from Windows' Programs and Features / Apps and Features settings panel.
- Removed the "(x64)" suffix from all new firewall rules.

Licensing

- Resolved an issue where Intella Node would no longer fall back on an Intella Professional license.

Security

- Added prevention against click-jacking attacks.

Authentication

- Added automatic forced logouts of inactive sessions.
- When 2FA is made mandatory on the server level, a QR code would immediately be shown upon login if the user did not have 2FA set up. This QR code is now shown on demand, for security reasons.
- Resolved an issue with some accounts unable to login when a lockout policy is defined.

Admin UI

- Added Investigator Grid functionality. This allows multiple Investigator servers to work together and offer a single point of entry to all users. This simplifies case management in larger organizations, as users do not need to be aware which Investigator server is hosting a case.
- An integrated log viewer has been added. This allows the admin to:
    - Get quick access to the logs from the Admin UI. Inspect and download them without needing file system-level access to the servers.
    - Search the logs.
    - Get educated about the existence and locations of the server, case and Node logs.
- Usability improvements to the Scan Logs functionality.
- The "Processing" permission group has been renamed to "Analysis".

Case management

- The Add Source user interface has been redesigned from scratch.
    - Improved overview of the overall process, remaining steps, and separation between mandatory and optional parameters.

    - Better usage of the available screen space.
    - Many subtle UI improvements.
- Compound cases can now be converted in an automated manner. It no longer requires manual editing of configuration files.
- Resolved an issue with importing compound cases not importing their sub-cases. This resulted in errors when attempting to share the compound case.
- Resolved an issue with cases being considered “active” for too long and counting towards the active cases limit, while users had already stopped working on those cases.
- Editing of a case’s sources no longer requires the user to click “Finish source management”.
- Resolved an issue with cases not being sorted properly on the Last Shared Date.
- Resolved an issue with a case failing to be shared due to the use of a large list of sources, each with a very long MD5 hash list in them.
- When importing a case to the cases list, a check is done to see if a case with that ID (listed inside the case.xml file) already exists. When such a case is present, the user is asked whether the imported case should replace the existing case with the same ID, or whether it should be imported with a newly generated case ID.
- Improved the default memory settings for new cases on machines with 512 GB or more RAM.

Indexing – General

- Added support for generating EDRM Message Identification Hashes (MIH). This is a cross-platform and cross-vendor message hashing standard, making email hashes comparable and exchangeable between forensic and eDiscovery applications.
- Added a source option to skip storing the binary data of items larger than a specific size. This helps reduce the case folder size and the indexing time. By default, items larger than 250 MB are not stored in the case folder anymore.
- Add a source option for skipping items based on their file name. This can be used to suppress files based on a known file extension or on another fragment in their file name.
- Put a limit on the length of the stored and indexed raw data. This increases performance and improves stability, by reducing the risk of memory errors. An example is chat conversations spanning a long time range, where the bundled metadata of all included chat messages can result in very large data streams. When indexing metadata fields, only the first 1 MB of text will be indexed. Only the first 5 MB of raw data will be stored. Warnings are added to the case logs when data is truncated. Items that exceed a limit are marked as Exception items with the type “Truncated”.

- Resolved an issue with the temporary folder failing to be cleared.
- Resolved an issue with Hangul HWPX documents showing an incorrect file name.
- Resolved an issue with incorrect creation dates extracted from an Adobe Photoshop PSD file.
- Stability improvements in the post-processing stage.
- Stability improvements when processing lots of small files over a network connection.
- Stability improvements when indexing damaged EDB files. This affects MS Exchange email databases, Windows Mail databases, and non-email EDB files.
- Harmless warnings stating "End of data reached" when processing PNG images and MP4 videos are now suppressed.
- Resolved an issue with incorrect crawler memory settings being reported in the case logs.

Indexing – Disk images

- Resolved an issue with processing of VHDX images created by the Kroll Artifact Parser and Extractor (KAPE).
- Resolved an issue with missing folders when processing Apple DMG images.
- Resolved an issue with processing Japanese folder names in FAT32 images.
- Stability improvements when indexing Apple DMG images.

Indexing – Email

- Improvements to the processing of PST containers:
    - The Conversation ID column is now populated for emails from PST containers.
    - Resolved an issue with missing emails due to incorrect MIME structures. These emails were not represented as an item, nor was anything logged.
- Improvements to the processing of Apple Mail containers:
    - Added support for recent Apple Mail versions.
    - Resolved several cases of missing attachments.
    - Stability improvements.
- Resolved an issue with the parsing of email headers with duplicate recipient headers, e.g. multiple CC headers, rather than a single header with a list of addresses.

Indexing – Chat messages

- The Google source has been extended with support for Google Chat.
- Improvements to the processing of Cellebrite UFDR and UFED XML reports:

    - Resolved an issue with chat messages not being indexed.
    - Resolved an issue with a UFDR file being incorrectly classified and processed as a Slack data dump.
- Improvements to the processing of RSMF files:
    - Added full support for the RSMF 2.0 standard.
    - Performance improvements. Next to the speed improvement, this also significantly reduces the chance of time-outs on very large RSMF containers.
- Improvements to the processing of MS Teams PST files:
    - Resolved an issue with conversations not being split properly by month or year.
    - Resolved an issue with inconsistent participant information between conversations and reply threads nested within that conversation.
    - Resolved an issue with start and end dates being reversed for some messages.
    - Stability improvements.
- Improvements to the processing of Slack data exports:
    - Improvements to the processing of the original and edited message timestamps.
    - Improvements to the processing of Slack participant usernames.
    - Stability improvements.

Indexing – Load files

- Improved the load file integrity check that is performed when the user clicks on "Check for Errors". Additional item type checks are being performed.

Indexing – Cloud sources

- The Google source has been extended with support for Google Chat.
- When selecting an S3 bucket or Google Drive to acquire, one can now indicate which folder(s) need to be acquired.
- Resolved several authorization errors when accessing Google sources.
- Stability improvements for SharePoint acquisitions.
- Improved error logging when indexing Dropbox sources.

Indexing – Crawler scripts

- Resolved an issue with crawler scripts failing to modify items that lack an MD5 hash.
- Resolved an issue with the Visited URL and Size fields not being accessible for crawler scripts.

IntellaCmd

- Added support for the -keyID argument. This lets one specify the dongle or SL key to use.
- Added a -replaceSourcePaths argument. This lets one do a substring replace of all evidence paths of all sources in a case.
- Improved the lookup process for alternative licenses.
    - Intella Node licenses are now always preferred over Intella Professional licenses.
    - When the first applicable license already has all its seats consumed, it will switch to an alternative license with available seats, rather than giving up.
    - Removed a false but misleading "Product license not found" error message. This was a byproduct of IntellaCmd simply trying out several alternative licenses.
- Improved memory usage of the case conversion process.
- Resolved an issue with Notes ID files not validating properly.
- Resolved an issue with case creation, where the main process memory setting of the specified case template was ignored.
- Resolved an issue where the system's temporary files folder was used, rather than the folder specified in the case settings. Also added some stability improvements related to the use of the temporary files folder.
- Resolved an issue with the -exportSourcesList operator failing to produce results when invoked on cases holding Slack data dumps.

Full-text search

- Improvements to the searching of email addresses containing underscore characters.
- Improvements to the searching of acronyms.

Facets

- The Item ID Lists facet's import functionality has been extended to also support the importing of URI lists. This facilitates the exchange of item lists between one case and another case exported from that first case. The item IDs will differ between those cases, but the URIs are constant and can be relied upon to find those items in the other case.
- The Features > Exported category now also reflects items that were exported to a (portable) case.
- Resolved an issue with custodian information not appearing in a case converted from an earlier version. This affected the custodian information in the converted

compound case itself, not the custodian information found in its converted sub-cases.

Identities

- Added importing of identities. Using a CSV file, identity data like names, organizations, email address and other communication aliases, etc. can be imported. This allows data on known identities to be utilized in a case.
- Added exporting of defined identities to a CSV file.
- The identity suggestions algorithm no longer suggests identities that have already been defined by the user.
- Identities chosen by the user from the suggestions list are now immediately removed from that list.

Results

- UI improvements in the selection of multiple items.
- UI improvements in the rounding of values such as byte counts.
- Quality improvements in thumbnail generation.
- Resolved an issue with the Hide Non-inclusive button not hiding all non-inclusive items in a compound case.

Previewer

- Made the old behavior of how email properties are rendered in the Contents and Previewer tabs available again, after user feedback. Both old and new behavior are available, controlled by a preference.
- The rotation data in an image's EXIF data, if present, is now applied to the rendering of the image. This ensures that the image is rendering with the intended rotation.
- Added support for rendering SVG images.
- Added a checkbox controlling whether videos should automatically start playback when opened in the Previewer.
- Usability improvements in the rendering of items with a lot of tags.
- Resolved an issue with email bodies in HTML format not rendering properly.
- Resolved an issue with certain email SMTP headers failing to render in the Headers tab.
- Resolved text alignment issues in the Contents tab.
- Improved error messaging when the native view of an item fails to be produced.
- Resolved an issue with the Download button not working on OCR-ed items.
- Resolved an issue with full-page redactions not working.

- Resolved an issue with the “Previous conversation” and “Next conversation” links not working on some chat conversations.
- Resolved an issue with the native preview of spreadsheets not occupying all available space.
- Resolved an issue with special characters in an item’s location being rendered incorrectly in the breadcrumbs bar at the top of the Previewer.
- Resolved an issue with incorrect positioning of hit marks in the scrollbar’s area.
- Resolved an issue with the scrollbar inside the Previewer not resetting properly when navigating from item to item.
- Resolved an issue with flagging inconsistencies between messages in conversations and the underlying, nested items, due to internal parsing errors.
- Resolved an issue with the Previewer failing to render chat message attachments in a converted case.
- Resolved an issue with Slack-internal links not being followed properly when clicked in the Previewer.

Preferences

- Various usability improvements.

Exporting – General

- The Export user interface has been redesigned from scratch.
    - Improved overview of the overall process, remaining steps, and separation between mandatory and optional parameters.
    - Better usage of the available screen space.
    - Many subtle UI improvements.
- Added exporting to the AFF4-L image format. This is a logical image format, similar to L01.
- Exporting errors are now reported to an Errors.csv file, separate from the regular export report that covers the successfully exported items. Optionally, this file can be converted to PDF, RTF and/or HTML, depending on the chosen main report format.
- Improvements to the suggested name of a new export set.
- Resolved an issue with inline attachments in Notes rich text emails being reported twice when exporting to EML or PST format.

Exporting – PDF

- Speed improvements through the increased use of multi-threading. The improvement in total duration typically ranges between 2 to 5 times faster than the 2.6.1 version.
- The “For every email include” header in the PDF rendering options screen has been renamed to “For every communication include”. This has been done because it applies to all communication types, not only emails.

Exporting – Load files

- The PDF-related improvements listed above also apply to the exporting to load files.
- Resolved an issue with comments being exported from one case to another through load file overlays. All comments would be squashed together, rather than kept as separate comments.
- Resolved a memory issue when using the “Export native chat content as PDF” option in the load file options.

Exporting – PST

- Resolved an issue with emails exported to a PST file lacking a Conversation Index field. This caused issues when attempting to perform email threading when the PST file was ingested in the Logikull platform.
- Resolved an issue with the automatic skipping of very large emails, done for stability and reliability reasons. An issue with the determination of the size of the email caused some emails to be skipped inadvertently.
- Resolved an issue with tasks with inconsistent timestamps failing to export to a PST.
- Resolved an issue with certain types of export errors not being reported in the export report.

Exporting – Relativity

- Added the ability to directly export to an on-premises Relativity or RelativityOne instance.

Exporting – Case

- Compound cases now also support exporting items to a separate case.
- Case exporting now supports exporting Image Analysis, Email Threading and Near-Duplicates item data.

- Resolved an issue with exporting decrypted items to a separate case. Decrypted items that could be opened in their native format in the original case, would fail to open in the case that it was exported to.
- Resolved an issue with Skin Tone Analysis results not carrying over to the target case.

Intella Viewer

- Resolved items failing to render when opened in a Previewer, in a remote case shared by Intella Connect or Intella Investigator. In one case this affected MS Teams chat messages. In another case this affected tagged items in a compound case.

Retiring functionalities

Intella Viewer – In a future release, Intella Viewer's ability to connect to a case shared by Intella Connect or Intella Investigator will be removed. Intella Connect and Intella Investigator will be able to deliver those functionalities entirely via the browser.

Microsoft SharePoint – The 2.7 version will be the last version to support local, on-premises SharePoint instances. Cloud-based SharePoint instances are not affected by this change, as they can be retrieved using the M365 source type.

Upgrade notes

Intella versions can be installed side-by-side. There is no requirement to uninstall old versions when installing an Intella version.

Case version 2.6.x – Intella 2.7 can open cases made with Intella 2.6.x. No case conversion is needed.

Due to a change in the underlying databases, results in the Image Categories and Detected Objects branches of the Image Analysis facet that were made with version 2.6 will not be visible when the case is opened with version 2.6.1 and later. This analysis will have to be repeated with the more recent version used.

Case versions 2.1.x to 2.5.x – Intella 2.7 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.

Memory settings – The 2.7 version changes how case memory settings are stored. Prior to version 2.7, these settings were stored in both the case.xml and case.prefs files, for historical reasons. This is now only stored in the case.prefs file. Consequently, if the 2.7 version is used to alter the memory settings of a case made with an older version, the memory setting changes may not be picked up by older versions.

Intella Node default port – In version 2.6, the default port Intella Node runs on changed from 9999 to 10000. This was done to ensure that installing Node on the same server as Connect or Investigator will not result in port clashes. To change the port that Node runs on, one can specify the NodePort property. See the Administrator Manual for instructions.

Software versions – Vound will provide technical support for one major past version. For this release that will mean the 2.6.x range of products. Vound always recommends that users upgrade to the latest version.

Intella Investigator 2.6.1

Highlights

- Added support for acquiring and indexing **S3 buckets**.
- Added support for acquiring and indexing various **Google** services.
- Improved the presentation of **contacts, meetings, invites** and **phone calls**.
- Added an **Events view**, showing a timeline of events observed in the evidence data.
- Added a system for license add-ons, enabling larger amounts of active cases and reviewers.
- **Command-line support** has been extended with options for case conversion, custodians, type filters, various forms of exporting, and more.
- **Case conversion with IntellaCmd.exe no longer requires a license**, allowing the task of converting large amounts of cases to be spread across several machines.
- Added a **log management** page, for scanning and providing easy access to all logs on a server.
- **Authentication** enhancements for 2FA and SSO**.**

General

- Added a log management page to the Admin environment. This functionality scans all logs present in a Connect/Investigator system: Investigator server logs, case logs and/or Node logs. The logs are checked against a list of common errors. Examples are errors related to file system permissions, disk space use, memory settings, etc. The user can download the logs from this page, removing the need to have file system-level access to various servers to obtain these logs.
- Windows Server 2022 is now listed as a supported OS.
- Resolved an issue with character encoding handling, which resulted in characters being displayed incorrectly.
- Resolved an issue with the temp folder setting sometimes not being used for certain tasks.
- Resolved an issue with file sizes being rounded incorrectly in several places.
- Various styling improvements.

Security

- Resolved a cross-site scripting vulnerability in the Tags facet.

- Resolved a redirection vulnerability in the Login page.
- Several library updates triggered by vulnerability analysis.

Licensing

- Added a modular licensing system for enabling more active cases and active reviewers on an Investigator server.

Authentication

- Added the ability to enforce the use of 2FA upon all users.
- Added a validator and troubleshooter for SSO setups.

Case management

- Suppressed a harmless error on case lock files when converting a case to the 2.6.x format.
- Resolved an error that occurred when importing certain case templates.
- Resolved several errors with case conversion failing to convert the geolocation database.

Compound cases

- A compound case's Custodian facet now shows a unified list of all custodians present in its sub-cases.
- Compound cases can now be converted fully automatically. In the 2.6 version, several manual steps were required to convert the compound case and all its sub-cases.
- Several enhancements in command-line processing involving compound cases. See the "Command-line support" section for more information.
- Resolved an issue with saved searches containing tags not loading properly in a compound case.
- Resolved an issue with the duplicate counts and the results of the Show Duplicates operation being too high in compound cases, due to items not being deduplicated across sub-cases.

Sources

- Resolved an issue where a source's type filter configuration defined in a Connect/Investigator source would show up inverted when viewed in the Intella desktop application.
- Added support for adding W4 cases made with W4 version 1.1.5.

- Resolved an issue with the “Analyze paragraphs” setting not allowing to be turned off.

Indexing – General

- Resolved an issue with DestList entries in a jump list not being extracted properly.
- Resolved an issue with all sources being marked as having an error after re-indexing, when only a subset of sources failed to index.

Indexing – Disk images

- The Select Folders sheet now shows volume labels when adding an APFS disk image. These were already extracted and shown in the Location facet; only the folder chooser was not showing them until now.
- Resolved an issue with missing volume labels when indexing ISO images.
- Resolved an issue with certain DMG images failing to process.
- Resolved an issue with certain APFS file systems failing to process.

Indexing – Email

- Added detection of MS Outlook IRM-protected emails (.rpmsg files).
- Resolved stability issues when indexing EDB files.

Indexing – Chat messages

- Resolved an issue with chat messages without a protocol that would fail to index.
- Resolved an issue with the chronological ordering of edited Slack messages.
- Resolved an issue with the Raw Data of certain chat messages lacking the full list of recipients.
- Resolved an issue with non-existing folders appearing in the Location facet when indexing a Slack Enterprise Grid export.

Indexing – Cloud

- Added support for indexing Amazon AWS S3 buckets.
- Elevated the Gmail source to become a Google source. Currently supported Google (Workspace) services are Gmail, Drive, Calendar, Tasks and Contacts. Future versions will extend this to a broader set of Google services.
- Resolved an issue with iCloud sources producing cookie validation failures.
- The “Connect to iCloud” page now uses a masked password field, obscuring the entered password.

Indexing – Crawler scripts

- Crawler scripts can now check whether an item passed to the script is a top-level item or a nested item. Examples of top-level items are the files in a file system folder and the emails in an Outlook PST file. Examples of nested items are images embedded in a document and files attached to an email. This family information allows for more fine-grained filtering of items, where the parent role is often crucial. For more information, see the GitHub page on crawler scripting: https://github.com/vound-software/intella-crawler-scripts.
- Resolved an issue when multiple sources with a crawler script were re-indexed. Re-indexing could give a fatal error when the second source was re-indexed.

Command-line support

- IntellaCmd.exe is now also installed when installing Intella Investigator/Connect. Previously, this was only installed with Intella and Intella Node.
- IntellaCmd.exe will now revert to looking for a Connect or Investigator license, when a Node or Professional license cannot be found.
- Added support for case conversion to IntellaCmd. Previously this could only be done by Intella.exe or interactively.
- No license is needed to run IntellaCmd.exe for case conversion.
- Added support for creating a compound case.
- Added support for specifying a case template when creating a new case.
- Added the ability to set a crawling script in a source configuration.
- Added the ability to set the custodian when adding evidence items to a case.
- Added the ability to include or exclude a list of item types during indexing. Depending on the filtering mode used, all items with a MIME type on, or not on the list are skipped.
- Added the ability to install a hash list through a command-line call, and to specify its use as part of a source definition.
- Added the ability to add various forms of data in bulk: source paths, BitLocker recovery files, password lists, email certificates and Notes ID files.
- The "-importText" option can now also be used on a compound case.
- Added the ability to export items using an export template. This change allows all export types to be automated through command-line arguments.
- The events.log file, containing a record of all actions taken place in a case, can now be exported to a CSV file through command-line arguments.
- Added a "-listAllTimezones" argument, which list all timezones that can be used in Intella(Cmd).exe invocations.

- Added options for exporting the exception report and a separate “fatal errors” file. These reports reduce the chance of critical errors being overlooked.
- Resolved an issue with the “-exportSourceList” command not exporting all chat-related settings of a source.
- Resolved an issue with paths failing to work due to the presence of a backslash character at the end of a quoted string, which resulted in the backslash being interpreted as the start of a character escape sequence.

Searching

- Improved the Image Analysis facet user interface and underlying database. Thresholds for image and object categories can now be altered directly inside the Image Analysis facet, instead of via the Preferences window. Changing the threshold immediately alters the facet counts, without requiring lengthy database updates.
- Resolved an issue with Boolean queries involving single term phrase queries with leading and trailing wildcards not producing adequate results.

Results

- Added an Events view. This view shows the timestamps of results as a list of events sorted chronologically. Selecting an event will show the details of the item corresponding with that event in a preview panel.
- Resolved an issue with the Select All and Invert Selection buttons in the table’s right-click menu not working.
- Resolved an issue with the item counts in the facets and the Searches list not considering that certain items may be hidden due to the use of the “Cannot see items tagged with …” permission. While those items were not uncovered, the item counts shown in those places were incorrect.
- Resolved an issue with the table column widths being restored to their default widths when the table is updated.

Analysis

- Image Analysis and Object Detection have been extended to support more image formats, e.g. iOS HEIC images. As a rule of thumb, when an image can be displayed in the application, it can now also be subjected to Image Analysis and Object Detection.
- The algorithm for suggesting Identities now ignores accounts named “admin” or “administrator”.

Previewer

- Enhanced the presentation of items representing contacts, meetings, invites and phone calls. The Contents tab now shows the relevant properties of these items in an appropriately formatted list, making the information easier to review.
- Enhanced the rendering of images in the Previewer.
- Added a slider for the object detection threshold. This allows the user to control whether all detected objects are highlighted or only the highest scoring objects.
- Resolved an issue where hidden slides, speaker notes and comments of a PowerPoint file were not rendered, when viewed in the native rendering.

Exporting – General

- Resolved an issue with export packages larger than 2 GB failing to download.

Exporting – PDF

- The enhancements for rendering contacts, meetings, invites and phone calls listed in the Previewer section also apply to the PDF export of these items.
- Resolved an issue with some PDF items failing to export to PDF.
- Resolved an issue with some JPG images failing to export to PDF.
- Resolved an issue with chat messages and conversations failing to export when they include corrupt embedded images.
- Resolved an issue where hidden slides, speaker notes and comments of a PowerPoint were not rendered, when exported to native rendering.
- The “Prefer HTML over plain text” option for email exporting is now selected by default.

Exporting – PST

- Resolved an issue with emails with LDAP-style addresses failing to export to PST.
- Resolved an issue with emails with tens of thousands of recipients failing to export.

Exporting – Load file

- All PDF-related export changes apply to load files as well.

Exporting – Report

- Resolved an issue with the Next button on the “Report – Title Page” sheet staying disabled.

Export – Case

- Resolved an issue with tags that are not assigned to any items, but are present in the Tags facet, not being exported to the target case.

Upgrade Notes

Intella Investigator versions can be installed side-by-side. There is no requirement to uninstall old versions when installing an Intella Investigator version.

Case version 2.6 – Intella Investigator 2.6.1 can open cases made with the 2.6 version of Intella, Intella Connect and Intella Investigator. No case conversion is needed.

Due to a change in the underlying databases, results in the Image Categories and Detected Objects branches of the Image Analysis facet that were made with version 2.6 will not be visible when the case is opened with version 2.6.1. This analysis will have to be repeated with version 2.6.1.

Case versions 2.1.x to 2.5.x – Intella Investigator 2.6.1 can open cases made with 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 version 2.0.x or older are not supported.

To open cases made with the 1.9.x and 2.0.x versions, please use version 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.