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Intella 3.0.1 Release Notes

Highlights

- Added **Intella Assist Tasks**. This lets users run user prompts on collections of items, producing tags, flags, texts and table columns for those items.
- 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 **Facet list** structure.
- Improved **Features facet** structure.
- Added support for **SHA-1**, **SHA-256** and **SHA-512** hashing.
- Improved source definitions for handling **very large M365 tenants**.
- Added **Work Report** exporting to Intella Professional and Intella Viewer.
- Added a **Repair Case** option, for repairing a broken case where possible.

Intella Backpack & Portable Cases

- Added Work Report exporting to Intella Professional and Intella Viewer. This allows for the transfer of work product, such as tags, flags and comments, to a copy of the case residing in another place.
- The Intella Backpack User Manual mistakenly contained sections about redacting items. Redaction functionality is only present in the other Intella editions. These sections have been removed from the Backpack user manual. Similarly, the Features facet no longer contains the "Redaction" branch.

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.
- 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 a "Repair" option, for repairing broken cases. 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 situations where no backup is available. As a precaution, users are still advised to run this operation on a copy of the broken case. This operation was already available as a command-line operation.
- Improved the logging preamble in the case log when a compound case is opened.
- Minor usability improvements and help text improvements in the Edit Case dialog.
- Resolved an issue when compound case creation failed to cancel properly, when requested by the end user.
- Resolved an issue with creating a new case silently failing on a machine with too little RAM. Now, a proper error is displayed.
- Resolve an issue with "Auto" mode displaying incorrect memory allocation settings on machines with a certain amount of RAM.

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.

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- 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.
- 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.
- Resolved an incorrect number of crawlers being logged when the memory setting is set to Auto or Manual.

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.

Indexing – Chat Messages

- Added support for indexing MacOS and iOS iMessage/SMS databases.
- 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.
- Usability improvements related to account selection when handling Microsoft 365 tenants with lots of accounts. Only a limited number of accounts will be displayed by default. One 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.

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.
- Resolved a rendering issue in the Emails view.

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.
- Added the possibility to configure which item fields (text, raw data, headers and/or properties) may be included in the prompt sent to the LLM provider. Also, the maximum allowed data length (in characters) can be configured per field.

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- Updates to the supported WatsonX models.
- The collapsed state of the Intella Assist sidebar is now persistent.
- Resolved an issue with the Enter key in the chat text field not working in some circumstances.
- 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

- The right-click menu in the Search tab has been extended with an "Intella Assist Analysis..." menu item. This opens a wizard where one can define an Intella Assist task. Such a task can analyze items, e.g., for traces indicating fraud, certain sentiments, or just to create a summary or translation. A task can tag, flag, or enrich an item with additional text, as desired by the user. Instructions formulated entirely in natural language dictate what the task should look for in an item. The task then runs in the background on the selected items, producing the requested tags, flags, texts and columns.
- 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. The investigator can now create a task configured specifically to analyze communications for potential red flags, such as suspicious financial terms, unusual urgency, or sensitive topics that are 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. The investigator receives a clearly tagged and summarized set of suspicious items, allowing for an immediate focus on the items of the highest relevance. 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:
  - The user selects a set of items, right-clicks on them to open the popup menu, and chooses Process > Intella Assist Analysis...
  - A wizard guides users through the process of defining the 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 what text or column data 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 and 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 items.
  - 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.

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

- Restructured the facet list to accommodate the growing number of facets. Facets are now grouped in branches: Evidence, Search, Devices, Review, Analysis. The user can reorder these categories and the facets within each category through drag and drop.
- Improved the usability of the Features facet, by grouping the facet nodes into branches: Evidence, Review, Analysis, Indexing. The order of these branches, as well as their internal order, can be rearranged through drag and drop.
- Improved usability in the Recipient Count facet.
- 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

- Resolved an issue where sorting by Family Date would not work properly after changing the Top-Level Parent search options.
- Resolved an issue with the Image Analysis columns showing no results.

Previewer

- Added an image loading indicator. This is shown when the loading, and optional conversion, of the selected image file is taking a considerable time.
- 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 where some PDFs could not be rendered due to incorrect font substitution.
- Resolved an issue where some of the redaction editor buttons may become invisible.

Review

- Resolved missing hit highlighting in Review tabs.

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Exporting – General

- When exporting of a URI list completes, the user is now shown a dialog that reveals the location of the exported CSV file, and allows for opening it in its native application.

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.

Exporting – Portable Cases

- The option to export item redactions has been removed, as Intella Backpack does not support redacting items.
- Resolved an issue with the chosen memory settings not being applied to the exported case.
- Resolved an issue with incorrect statistics about tagged items being shown at the end of exporting.

Upgrade Notes

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

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

Case versions 2.1.x to 2.7.x – Intella 3.0.1 can open cases made with Intella 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 3.0.1, 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 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 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.

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