# Table of Contents

Overview ......................................................................................................................................................................... 4

1 What’s New ............................................................................................................................................................. 5
  1.1 General ........................................................................................................................................................... 5
    1.1.1 Enhancements ............................................................................................................................................ 5
    1.1.2 Modifications ............................................................................................................................................ 14
  1.2 Grid View ...................................................................................................................................................... 16
    1.2.1 Enhancements .......................................................................................................................................... 16
  1.3 Thumbnail View ............................................................................................................................................ 17
    1.3.1 Enhancements .......................................................................................................................................... 17
  1.4 Smart Grid View ............................................................................................................................................ 21
  1.5 Timeline View ............................................................................................................................................... 22
    1.5.1 Enhancements .......................................................................................................................................... 22
  1.6 Mini Timeline ................................................................................................................................................ 26
  1.7 Reports and Exports ...................................................................................................................................... 27
    1.7.1 Enhancements .......................................................................................................................................... 27
  1.8 Chat Conversations ....................................................................................................................................... 30
    1.8.1 Enhancements .......................................................................................................................................... 30
  1.9 Job Queue ..................................................................................................................................................... 32
    1.9.1 Enhancements .......................................................................................................................................... 32
  1.10 DPM DPE Monitor ......................................................................................................................................... 33
  1.11 Others ........................................................................................................................................................... 34
    1.11.1 Enhancements ...................................................................................................................................... 34
1.11.2 Modification

1.12 Performance Improvement

1.13 Mobile Forensics

1.14 Service Upgrades

1.15 Site Server and Agent

2 Resolved Issues

2.1 General

2.2 Production Issues

2.3 Performance Issue

2.4 Collection Issue

2.5 Viewer Issue

2.6 Miscellaneous Issues

3 Open Issue

4 Limitations

4.1 General

4.2 Mini Timeline

Contact Exterro
Overview

Exterro was founded with the simple vision that applying the concepts of process optimization and data science to how companies manage digital information and respond to litigation would drive more successful outcomes at a lower cost. We remain committed to this vision today. We deliver a fully integrated Legal GRC platform that enables our clients to address their privacy, regulatory, compliance, digital forensics, and litigation risks more effectively and at lower costs. We provide software solutions that help some of the world’s largest organizations, law enforcement and government agencies work smarter, more efficiently, and support the Rule of Law.
1 What’s New

1.1 General

1.1.1 Enhancements

1. FTK Central now provides reviewers with an improved, granular approach when reviewing data. The following features have been introduced:

- The ability to toggle (view/hide) ingested data within the item list. *(FTKC-22594)*

*Note: By default, all ingested data is displayed in Review mode. You can select/deselect the required evidence to view corresponding files.*
• ‘Evidence Explorer’ is introduced within the filtering panel which allows you to substantially drill down through the evidence folder structures to select and view only the files associated within a specific folder. (FTKC-21731)

2. Opening and accessing the ‘Viewer’ pane is made simpler by double-clicking a file within the item list or thumbnail view. (FTKC-25134)
3. ‘Size’ filtering options within the Common Filter now include specific size ranges. *(FTKC-20772)*

You can access this filter from the Explorer pane > Common Filter > Size.
4. You can open multiple tabs with different sets of files in Review mode to simultaneously perform review operations in each tab.

Multiple tabs can be created using the following options in the ‘Info’ panel: *(FTKC-25060) (FTKC-24662)*
• Click on the newly introduced ‘Open in a new tab’ button against the ‘Path’ field.

• Click on any of the individual folders that are displayed in the ‘Path’ field.
5. The following modifications are made in Review mode for improved accessibility:

![Image of Review mode interface]

- All file viewer panels (mentioned below) are now consolidated and maintained on the right pane of the page. *(FTKC-22596)*

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viewer</td>
<td>To view the files in required formats.</td>
</tr>
<tr>
<td>Info</td>
<td>To view the details of files.</td>
</tr>
<tr>
<td>Tags Panel</td>
<td>To create and manage ‘Labels’, ‘Bookmarks’, and ‘Coding Panel’. <em>(FTKC-21730) &amp; (FTKC-22441)</em></td>
</tr>
<tr>
<td>Mini Timeline</td>
<td>Displays the metadata and events of a file within the selected time/date range.</td>
</tr>
<tr>
<td>Maps</td>
<td>Displays the location of a file in a map (if applicable).</td>
</tr>
</tbody>
</table>

- The ‘Reports’ and ‘Export’ icons are now placed near the Case drop-down list (top-left). *(FTKC-22588) (FTKC-22589)*

- All filtering options are now consolidated and categorized in the left pane of the page. *(FTKC-22793)*
6. You can resize and reposition the ‘Advanced Search’ pop-ups within Review mode. (FTKC-25344)

7. Any user (regardless of the roles assigned) can change their user account password by clicking on the newly introduced ‘Change Password’ button from the user profile (top-right). (FTKC-4822) (FTKC-22592)

8. You can now edit ‘Custom Evidence Properties’ associated to any ingested evidence: (FTKC-15175)
   - Image
   - Custodian Name
   - Evidence Category
   - Media Type
   - Evidence Source
   - Suspect Name
   - Evidence Number
   - Evidence Name
   - Evidence Date
   - Make and Model
   - Place of Acquisition
   - Notes
9. The ‘Info’ panel has been granularized to provide additional details of a file in the corresponding tab: (FTKC-21732) (FTKC-25203)

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Info</td>
<td>To view the metadata information of a selected file.</td>
</tr>
<tr>
<td>Duplicates</td>
<td>To view a list of duplicates of a selected file.</td>
</tr>
<tr>
<td>Family</td>
<td>To view all files related to a selected file.</td>
</tr>
<tr>
<td>Email Conversation</td>
<td>To collectively view email threads of a selected email.</td>
</tr>
<tr>
<td>History</td>
<td>To view a list of activities performed by users on the selected file within the application.</td>
</tr>
</tbody>
</table>

10. FTK Central is now enhanced to include the Deduplication on actual files only (‘Document Actual File’). (FTKC-25444)

11. The case drop-down list in the top-left corner of the Review mode is now enhanced to display the entire case names instead of truncating it. (FTKC-25595)
12. FTK can now automatically clean up the Temp folders of completed jobs regardless of the intended operation’s result. This should help with better handling of distributed jobs. *(FCR-7315)*

13. FTK now supports processing of Slack JSON export files and is capable of parsing chat conversations using ‘Exterro Chat’ parser from the ‘Expansion’ option. *(FCR-11801)*
1.1.2 Modifications

1. The term ‘Tabbed Productions’ is now changed to ‘Productions’ across FTK Central. (FTKC-12466)

2. Lotus Notes data sources are no longer supported within FTK. As a part of this modification, the ‘Notes Username’ field within Custodian profiles has been removed. (FTKC-17229)

3. The start of any evidence location path of files displayed in the ‘Viewer’ will be truncated when the path is too long. (FTKC-24792)

4. The ‘Filter by Values’ column filters are now removed for the columns below: (FTKC-27942)

   - Object ID
   - Object Name
   - MD5 Hash
5. The 'Activity Logs' within the Administration section recorded for the creation and deletion of Exports are now modified to be displayed in the following format: *(FTKC-23087)*

- Production Set - Create Export <Production Set Export Name> for case Id: <Case ID>
- Production Set - Deleted export <Production Export Name> and <Production set labels>

6. The ‘Info’ panel in FTK Central is now enhanced to display the ‘MD5 Verification Hash’ value of ingested data. *(FTKC-30176)*
## 1.2 Grid View

### 1.2.1 Enhancements

1. The ‘List View’ is enhanced to display additional Metadata columns. *(FTKC-20774)*

<table>
<thead>
<tr>
<th>Metadata Column</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SlackExamined</td>
<td></td>
</tr>
<tr>
<td>GeneratedStream</td>
<td>(column displayed as Generatedfiledata)</td>
</tr>
<tr>
<td>ImageHorizontalResolution</td>
<td></td>
</tr>
<tr>
<td>ImageVerticalResolution</td>
<td></td>
</tr>
<tr>
<td>ExifImageProcessingsoftware</td>
<td></td>
</tr>
<tr>
<td>ExifImageOrientation</td>
<td></td>
</tr>
<tr>
<td>ExifImageSoftware</td>
<td></td>
</tr>
<tr>
<td>ExifImageDateandtime</td>
<td>(column displayed as Exif.Image.Datetime)</td>
</tr>
<tr>
<td>ExifImageExififtag</td>
<td></td>
</tr>
<tr>
<td>ExifImageGpslag</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoExposuretime</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoFnumber</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoExposureprogram</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoIsospeedrating</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoComponentsconfiguration</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoShutterspeedvalue</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoAperturevalue</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoBrightnessvalue</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoExposurebiasvalue</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoMeteringmode</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoFlash</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoFocallength</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoSubjectarea</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoMakernote</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoSubsectimeoriginal</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoSubsectimedigitized</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoFlashpixversion</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoColorspace</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoPixelxdimension</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoPixelydimension</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoSensingmethod</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoScenetype</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoExposuremode</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoExififversion</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoWhitebalance</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoFocallengthin35mmfilm</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoScenecapturetype</td>
<td></td>
</tr>
<tr>
<td>ExifGpsinfoGpslitudereference</td>
<td></td>
</tr>
<tr>
<td>ExifGpsinfoGpslatitude</td>
<td></td>
</tr>
<tr>
<td>ExifGpsinfoGpslongitudereference</td>
<td></td>
</tr>
<tr>
<td>ExifGpsinfoGpsaltitude</td>
<td></td>
</tr>
<tr>
<td>ExifGpsinfoGpstimestamp</td>
<td></td>
</tr>
<tr>
<td>ExifGpsinfoGpssspeedreference</td>
<td></td>
</tr>
<tr>
<td>ExifGpsinfoGpsspeed</td>
<td></td>
</tr>
<tr>
<td>ExifGpsinfoGpsimagdirectionreference</td>
<td></td>
</tr>
<tr>
<td>ExifGpsinfoGpsdestbearingreference</td>
<td></td>
</tr>
<tr>
<td>ExifGpsinfoGpsdestbearing</td>
<td></td>
</tr>
<tr>
<td>ExifGpsinfoGpsdatetime</td>
<td></td>
</tr>
<tr>
<td>ExifPhotoExififversion</td>
<td></td>
</tr>
</tbody>
</table>
1.3 Thumbnail View

The ‘Thumbnail View’ allows for efficient media review and identification for generated thumbnails.

1.3.1 Enhancements

1. FTK Central allows you to perform the additional operations for the files displayed in the ‘Thumbnail View’.

   You can access these options from the Settings menu displayed in the top-right corner of the ‘Thumbnail View’:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hide</td>
<td>To hide the files that are viewed or tagged. <em>(FTKC-22387)</em></td>
</tr>
</tbody>
</table>

   *Note: This feature is also applicable to the File List View and Smart Grid View.*

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pixelate</td>
<td>To automatically pixelate the thumbnails of videos and images categorized under VIC/CAID.</td>
</tr>
<tr>
<td>Mute Video &amp; Audio</td>
<td>To automatically mute audio when the multimedia files are opened in Viewer.</td>
</tr>
<tr>
<td>Option</td>
<td>Description</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Stack Duplicates</td>
<td>To stack duplicate files based on similar Hash values into a single thumbnail. With this option enabled, you can avoid viewing or reviewing the duplicates of a file. <em>(FTKC-22395)</em></td>
</tr>
<tr>
<td>Hover</td>
<td>Hover over the required file in the ‘Thumbnail View’ to view an enlarged version of a thumbnail image (multimedia files) along with the below details: <em>(FTKC-22383) (FTKC-25132)</em></td>
</tr>
</tbody>
</table>

2. You can sort multimedia files in either ascending or descending order by clicking on the ‘Sort by’ button using the following options: *(FTKC-22357)*

   - Name
   - Created Date
   - Last Modified Date
   - Path
   - Logical Size
   - Extension
   - Duration
   - Exif Image Make
   - Exif Image Model
   - Stacks
   - Location (City)
   - Location (Country)
3. To get a quick and brief reference about files, you can click on the newly introduced ‘Show Thumbnail Info’ button to view the following information along with the file’s thumbnail: *(FTKC-22394)*

- Object Name
- Associated Evidence
- EXIF Image Model (If applicable)
- Location (If applicable)

*Note: This option is not applicable when the size of the thumbnails is set to the smallest size.*

4. You can group all multimedia files based on the following categories: *(FTKC-22384)*

- None
- Name
- Created Date
- Last Modified Date
- Logical Size
- Extension
- Duration
- Exif Image Make
- Exif Image Model
- Stacks
- Location (City)
- Location (Country)

To do so, you can click the ‘Group by’ icon and select the required grouping option.
1.4 Smart Grid View

Smart Grid View is an easy and efficient way to filter files in a case. Smart Grid View in the FTK Central automatically groups all metadata values and displays them in corresponding columns for easier review. All file metadata is categorized in multiple scrolling grids. You simply need to click and select all values required to form a filter query and view the corresponding set of files.

You can sort, filter, and search for the file details displayed in the ‘Smart Grid View’. *(FTKC-24784) (FTKC-25246)*

*Note: The columns consisting of no values will not be displayed in the ‘Smart Grid View’. *(FTKC-24789)**
1.5 Timeline View

FTK Central Timeline View provides you with a graphical representation of all file events arranged in chronological order. This view allows the review of data based on specific timelines events/ranges.

1.5.1 Enhancements

1. A new processing option, ‘Generate Timeline View’ is introduced within the Create Case > Process Evidences page. This processing option is selected by default and will automatically generate the ‘Timeline View’ in the Review mode of the corresponding Case.

*Note: If this option is not selected during processing, you can click on ‘Generate Timeline Data’ within the Timeline view to generate the timeline in the Review mode.*
2. You can click on the bar graphs in Timeline View to perform the following operations:

- **View Events** - To filter and view the list of files matching events in the selected timeline range.
- **Add to Compare** - To open an adjacent section consisting of a file list related to a different timeline event. With this, you can have a side-by-side file list for comparison.

*Note: For a better file comparison experience, you can click on the button to synchronize the file scrolling between the two sections.*
3. The convenience of applying filters has been added in Timeline View by introducing the following option:

- You can click on the required attribute values displayed on the ‘Timeline View’ and select the ‘Apply as a filter’ option to turn it into a filter. This option will filter the files and events listed in the ‘Timeline View’ (FTKC-24935)

- You can choose to filter and view only the files based on a specific set of events (Last Modification Date, Creation Date, etc.) This can be configured in the ‘Event Configuration Settings’, which can be accessed by clicking on the button from the Timeline View. (FTKC-24186)
4. You can easily perform any of the following review operations for one or more (Ctrl + Click) files in ‘Timeline View’ by right-clicking on it and selecting any of the listed operation: *(FTKC-22679)*

- Productions
- Additional Analysis
- Assign Doc ID
- Bulk Bookmarking
- Bulk Coding
- Bulk Imaging
- Bulk Labeling
- Bulk Native Conversion
- Flag as Privileged
- Flag as Ignorable
- Download Native(s)
- Export to CSV
- Export Media Categories
- Export to Semantics21

5. You can click on the ‘Generate Timeline Data’ button in the ‘Timeline View’ to regenerate the timeline view intended to reflect the latest files and timeline events. *(FTKC-24462)*

6. For more insight about a file, you can click on to view the file’s timeline event history.

7. You can sort the files in Timeline view either in ascending or descending order.

8. You can group the data in Timeline view based on the following options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day</td>
<td>Displays events corresponding to each day for the configured range.</td>
</tr>
<tr>
<td>Hour</td>
<td>Displays events corresponding to each hour of the day for the configured range.</td>
</tr>
<tr>
<td>Minutes</td>
<td>Displays events corresponding to each minute for the configured range.</td>
</tr>
<tr>
<td>Seconds</td>
<td>Displays events corresponding to every second for the configured range.</td>
</tr>
</tbody>
</table>
1.6 Mini Timeline

The Mini Timeline provides the list of events occurred on the selected date. You can access the Mini Timeline by clicking on any of the date or time events displayed in the ‘Info’ view of a file.

To make use of the functionalities in the ‘Timeline View’, click on the ‘Open in a new tab’ button from the Mini Timeline section to open and view the events in the Timeline View. *(FTKC-25434) (FTKC-21734)*
### 1.7 Reports and Exports

#### 1.7.1 Enhancements

1. The following reports are newly introduced for a completed ‘Export’: *(FTKC-16984)*

<table>
<thead>
<tr>
<th>Report</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Export Naming Report</td>
<td>This report provides you with the list of files exported in corresponding formats.</td>
</tr>
<tr>
<td>Validation Report</td>
<td>This report provides the list of all files that were exported in native and image format.</td>
</tr>
<tr>
<td>Image Conversion Exception Export</td>
<td>This report provides the list of exceptions that occurred during the export operation.</td>
</tr>
<tr>
<td>Summary Report</td>
<td>This report provides the details of the exported files.</td>
</tr>
</tbody>
</table>
2. The following options are newly introduced in the ‘Load File’ tab of the ‘Export’ page when the ‘Export Load File’ option is selected: *(FTKC-2132)*

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Save Template</td>
<td>To edit and save the existing templates with required fields.</td>
</tr>
</tbody>
</table>

**Notes:**
- *You can control the accessibility of the templates by selecting the ‘Private’ option while creating the new templates.*
- *The ‘Private’ templates are accessible only to the user who created the template.*
- *You cannot overwrite a default load file template.*

Delete | To delete the existing templates.
3. You can now choose to generate a ‘Search Term Report’ for a specific set of filtered files. To do so, select any one of the following newly introduced options from the ‘Search Reports’ pop-up: *(FTKC-26848)*

- Use current results – To generate search reports for files filtered in Review mode.
- User selected label(s) – To generate a search report for files associated with the selected labels.
1.8 Chat Conversations

The Native View of the Chat conversations has been enhanced to provide users with a near native experience of the source chat application for easy reviewing.

1.8.1 Enhancements

1. The following information are displayed in the Native view’s header specifically for chat conversions:

- The chat application’s name.
- The total number of messages present in the selected conversation.
- The participants of the conversation.
- The date and time of the first and last chats in the Conversation.
- The ‘Attachment(s)’ button to click and view all the attachments in the conversation.

Note: While viewing the attachments, you can click on the ‘Filter conversations around this attachment’ button to navigate and view the chat associated with the attachment in the Native view.
2. You can perform the following operations for chat conversations viewed in the ‘Native’ viewer:

<table>
<thead>
<tr>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Label</td>
<td>To label a chat conversation.</td>
</tr>
<tr>
<td>Bookmark</td>
<td>To bookmark a chat conversation.</td>
</tr>
<tr>
<td>Flag as Privileged</td>
<td>To Flag a chat as privileged.</td>
</tr>
<tr>
<td>Flag as Ignorable</td>
<td>To Flag a chat as ignorable.</td>
</tr>
<tr>
<td>Participant Details</td>
<td>To view the details of the participants involved in the conversation.</td>
</tr>
<tr>
<td>Attachments</td>
<td>To View attachments shared in the particular chat.</td>
</tr>
</tbody>
</table>
1.9 Job Queue

1.9.1 Enhancements

1. A new ‘System Wide Collection Report’ is introduced for Remote Collections to display the consolidated details of all the Collections performed within the application. You can generate this report from the Manage Collections page and download the same from ‘Job Queue’. *(FTKC-13197)*

2. The JobInformation log file generated upon performing Additional Analysis will now display the evidence details. *(FTKC-21203)*

3. The following enhancements are introduced for ‘Active’ jobs:
   
   - The ‘Delete’ button is introduced to terminate and delete unwanted active jobs. *(FTKC-20730)*
   
   - The columns below are introduced to display additional job details: *(FTKC-15216)*
     - Job ID
     - Job Type
     - Status
     - Start Date
   
   - The ‘Clear inactive jobs’ button is newly introduced to clear jobs in the following state: *(FTKC-21008)*
     - Cancelled
     - Cancel Requested
     - Pause Requested
     - Paused
     - Unknown

*Note: All ‘Completed Jobs’ cannot be deleted.*
1.10 DPM DPE Monitor

1. FTK Central has been enhanced to allow you to manage and take advantage of the features and functionalities related to Distributed Processing Managers and Distributed Processing Engines:

- A System Management option, ‘DPM DPE Configuration’ has been introduced. You can create and manage processing managers (DPM) and any corresponding processing engines (DPE) in this section such as:
  - The ability to add/delete DPM or DPEs.
  - The ability to disable a DPE from an existing DPM.

- The ‘DPM DPE Monitor’ button is introduced in the header of the FTK Central application. You can click on this button to access the ‘DPM DPE Monitor’ page to check the statuses of all DPM, DPE, and corresponding processing jobs. This panel can be accessed from any page within the application.
1.11 Others

1.11.1 Enhancements

1. You are provided with the ability to distribute the database servers horizontally. *(FTKC-22440)*

2. Exterro FTK Central’s security has been enhanced by upgrading the application with support for the latest Cipher suites. *(FTKC-13049) (FTKC-13049)*

3. VIC/CAID categories applied to media files in a case will automatically be applied to all files that match the corresponding hash value. *(FTKC-14326)*

1.11.2 Modification

1. The weak and deprecated cipher suites are removed from the Site Servers as a part of security enhancements. *(FTKC-13049)*

1.12 Performance Improvement

1. FTK has been enhanced to support up to 50 million items in a case (irrespective of its size) via PostgreSQL. *(FCR-16057)*

<table>
<thead>
<tr>
<th>Performance Metrics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of. evidence in a single case</td>
</tr>
<tr>
<td>Number of files in the case / Review Page</td>
</tr>
<tr>
<td>Types of evidences used</td>
</tr>
</tbody>
</table>
1.13 Mobile Forensics

1. FTK is now enhanced to parse the following artifacts for the ‘Mobile Phone (iOS) Biome Application Information’ in the ‘System Summary’ pane: *(FCR-15648)*

- Biome AppInFocus
- Biome AppInstall
- Biome Backlight Public
- Biome Battery Percentage
- Biome Device PluggedIn
- Biome Hardware Reliability
- Biome Notifications Public
- Biome Now Playing Public
- Biome Text Input Sessions
- Biome User Activity Metadata
- Biome WIFI
- Application Intent

*Note:* You can refer to the Exterro FTK Suite 8.0 - Artifacts Guide for more details.

2. The following artifacts have been introduced for ‘Location’ related data: *(FCR-15592)*

**iOS:**

**Find My Information:**

- Owner Information
- Device Information List
- Device Information
- Device Address
- Device Location
- Crowd Source Location
iOS Media Information:
- Business Category Cache
- Location Information
  - Location Cache
  - Reverse Geo Location Information
    - Reverse Geo Location
    - Postal Address
    - Final Place
    - Sorted Place
    - Backup Place
- Public Event Query Location

Mobile Phone (iOS) Network Information:
- iOS Mobile WiFi-Access Point

Android:

Android Media Information:
- Geo Tagged Media
- First Party-Geo Tagged Media

Weather Clock Application:
- Weather Content
- Weather Daily Information
- Weather Hourly Information
- Weather Information

Mobile Phone (Android) Google Map:
- Android Mobile GMAP Cached Search History
3. The Calls and Chat details of a mobile application will now be combined and included in the corresponding conversation Viewer. *(FCR-13186)*
4. The ‘Evidence Processing’ section is now enhanced with an additional Processing Profile, ‘Mobile Processing’ to process the mobile evidence efficiently. In this profile, basic parsing, system summary, and indexing options are selected by default. The Expansion options include the following: *(FRC-16980)*

- Exterro Chat Parser
- Browser-related data (Including Google Chrome, Firefox, and Safari)
- All the archive types (ZIP, RAR, TAR, GZIP)
- iOS and Android backups
5. FTK is enhanced to parse data for the below mentioned iOS and Android applications:

<table>
<thead>
<tr>
<th>Chat Applications</th>
<th>Android</th>
<th>iOS</th>
<th>Latest Supported App Version (Android)</th>
<th>Latest Supported App Version (iOS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Teams</td>
<td>Microsoft Teams Attachment</td>
<td>Microsoft Teams Attachment</td>
<td>1416/1.0.0.2023072702</td>
<td>5.8.0</td>
</tr>
<tr>
<td></td>
<td>Microsoft Teams Calls</td>
<td>Microsoft Teams Calls</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Microsoft Teams Contact</td>
<td>Microsoft Teams Contact</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Microsoft Teams Conversation</td>
<td>Microsoft Teams Conversation</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Microsoft Teams Group Conversation</td>
<td>Microsoft Teams Group Conversation</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Microsoft Teams Messages</td>
<td>Microsoft Teams Messages</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LinkedIn</td>
<td>LinkedIn Attachment</td>
<td>LinkedIn Attachment</td>
<td>4.1.818.1</td>
<td>9.1.318</td>
</tr>
<tr>
<td></td>
<td>LinkedIn - Contact</td>
<td>LinkedIn - Contact</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LinkedIn - Conversation</td>
<td>LinkedIn - Conversation</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LinkedIn - Messages</td>
<td>LinkedIn - Messages</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Uber</td>
<td>Uber Account</td>
<td>Uber cached Location’s</td>
<td>4.492.10000</td>
<td>3.580.10001</td>
</tr>
<tr>
<td></td>
<td>Uber Cached Place</td>
<td>NA</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Uber Cached shortcuts</td>
<td>NA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tiktok</td>
<td>TikTok Contact</td>
<td>NA</td>
<td>25.6.4</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>TikTok Conversation</td>
<td>NA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

© Exterro, Inc. All rights reserved.
<table>
<thead>
<tr>
<th>Chat Applications</th>
<th>Android</th>
<th>Latest Supported App Version (Android)</th>
<th>iOS</th>
<th>Latest Supported App Version (iOS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TikTok Messages</td>
<td></td>
<td></td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Twitter Information</td>
<td></td>
<td></td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Twitter User Information</td>
<td></td>
<td></td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Twitter Live Events</td>
<td></td>
<td></td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Twitter Tweets</td>
<td></td>
<td>9.87.0-release.0</td>
<td>NA</td>
<td>9.56.1</td>
</tr>
<tr>
<td>Twitter Interest Topic</td>
<td></td>
<td></td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Twitter Link URLs</td>
<td></td>
<td></td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Twitter Media</td>
<td></td>
<td></td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Twitter Tweets</td>
<td></td>
<td></td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Twitter Structured Locations</td>
<td></td>
<td></td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Twitter URL Entity</td>
<td></td>
<td></td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Twitter User</td>
<td></td>
<td></td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Twitter User Birthday</td>
<td></td>
<td></td>
<td>NA</td>
<td></td>
</tr>
</tbody>
</table>
1.14 Service Upgrades

1. Angular is upgraded from 9 to 14 version. Telerik is upgraded to support the seamless working of Angular. *(FTKC-16549)*
2. The ABBYY FineReader is upgraded to the 12.5.15.0 version. *(FCR-8878)*
3. The Inso Viewer is upgraded to the 8.5.6.33 version. *(FCR-19593)*
4. The FTK Agent version is upgraded to 8.0.0.20.
5. The FTK Site Server version is upgraded to 8.0.0.309.

1.15 Site Server and Agent

1. The Site Server is enhanced to allow any port to be utilized for Site server-to-Site server communication; this applies to both root and child Site Servers. *(ER-11463)*

*Notes:*
- Refer to the Configuring Site Servers article for further information.
- A port is exclusively assigned for Site Server-to-Site Server communication; this port is only for the Site Server being configured.
- The port will be cross-checked against any port used in root and child instances to ensure a unique port is used.
- Additionally, ports used for root and child instances should differ from the assigned 'Public Port'.

2. The Site Server to Agent communication is enhanced with the following: *(ER-11462)*
- Agents now report its GUID to reduce some delay when communicating.

*Note: Agents must be reinstalled to take advantage of the enhancements above.*
3. FTK is enhanced to automatically restart Agents when it fails to connect to a Public Site Server. *(FCR-15665)*
   - If a Public Site Server and ‘retry_failed_attempt’ parameter is passed, an agent will restart automatically once it fails to connect to a Public Site Server after a configured amount of attempts.

   **Note:** Refer to the [Manually Installing the Windows Enterprise Agent](#) article for more information.

4. FTK Enterprise 8.0 includes support for DoD STIG Compliance, allowing seamless installation and configuration of our Linux agent in alignment with DoD security standards. *(FCR-15898)*

   **Note:** DISA is part of the Department of Defense (DoD) which includes the Security Technical Implementation Guide (STIG) guidelines and outlines how an organization should handle and manage the security software and systems (for organizing, delivering, and managing the defense related information).

5. Exterro FTK is enhanced to record the logs (with detailed information) for every successful or failed check-ins made to a Public Site Servers. *(FCR-15420)*

6. FTK Enterprise now supports the collection of Red Hat (RHEL 9.x) OS disk images. *(FCR-13604)*

   **Note:** You can refer the [Manually Installing Agents on 64-bit Linux Operating Systems](#) article for more information.
2 Resolved Issues

2.1 General

1. Resolved an issue where the inactive Active Directory custodians were not displayed while filtering or searching for them across the application. *(FTKC-14995)*
2. Resolved an issue where the Admin users were removed from the ‘Application Administrators’ group when a non-admin user assigned a case to the admin user. *(FTKC-27271)*
3. Resolved an issue where the browser spell check was not working for text fields in the coding panel. *(FTKC-23081)*
4. Resolved an issue where the users were not warned upon executing the ‘Test Configuration’ consisting of incorrect ‘Base DN’. *(FTKC-8849)*
5. Resolved an issue where the users were unable to configure the ‘Default case path’ with the source folder named with a single character. *(FTKC-20690)*

   Example: D:\Exterro\Eclipse\checkout_new\e

6. Resolved an issue where the chat conversations collected from Microsoft Teams were not completely displayed in all viewers except the ‘Native’ view. This issue occurred while exporting the same. *(FTKC-25019)*
7. Resolved an issue where the File Export Path characters were considered case sensitive. *(FTKC-20731)*
8. Resolved an issue where the rotate operation was not performed for the files in the ‘Image’ viewer. *(FTKC-25150)*
9. Resolved an issue where duplicates were generated upon executing the ‘Detail Report’. *(FTKC-24415)*
10. Resolved an issue where the value for the ‘Email’ row in the ‘Data Volume Report’ was incorrectly updated as ‘N/A’. *(FTKC-24406)*
11. Resolved an issue where ADG.ADG7x1.AdConfiguration table (backend database table) did not save the details provided in the ‘Active Directory Details’ tab during Active Directory configuration. However, the details were displayed in the FTK Central application user interface. *(FTKC-21764)*
12. Resolved an issue where incorrect results were displayed upon performing an Advanced Search using ‘FileType’ filter with ‘Contains’ operator. *(FTKC-24414)*
13. Resolved an issue where members of the User Groups were not displayed in the ‘Select Reviewers’ drop-down field while creating a new Review Set. *(FTKC-24979)*
14. Resolved an issue where the collection of data from Network Share failed when the path exceeded 250 characters. *(ER-13360)*

15. Resolved an issue where the status of an interrupted Collection was incorrectly displayed as ‘Completed’ in the Manage Collections page. *(ER-10823)*

16. Resolved an issue where the users could not perform collection operations for the Network Share data source when the ‘Password’ AD1 Encryption option was selected in the ‘Advanced Options’ of the ‘Collection Options’ page. *(ER-7962)*

17. Resolved an issue where the Custodians associated with the evidence that was processed via Custodian data source collection were not displayed in the below mentioned pages: *(FTKC-24353)*
   - Case Summary page
   - Case Dashboard
   - Review Mode

18. Resolved an issue where the users were not able to perform the bulk delete operation for the active jobs from the Jobs Monitors page. *(FTKC-22216)*

19. Resolved an issue where the cases were restored in the wrong location instead of the specified location. This issue occurred only upon restoring the cases from the FTK Central application. *(FTKC-23082)*

20. Resolved an issue where the users were not able to assign specific roles/permissions listed in the ‘Roles Mapping’ section. This issue occurred while creating or editing a user from the Admin Panel. *(FTKC-13022)*

21. Resolved an issue where the usernames with Chinese characters in them were incorrectly displayed while viewing them in the Entity Management page. *(FTKC-17265)*

22. Resolved an issue with how search term report labels were being organized. If the same label was used in multiple search term reports, a duplicate label was created each time. *(FTKC-24059)*

23. Resolved an issue where the Evidence files added to a case via the FTK application were not displayed in the FTK Central’s Evidence List. *(FTKC-25308)*

24. Resolved an issue where the LastModifiedDate field in MetaData viewer displayed the evidence processed date. *(FTKC-24317)*

25. Resolved an issue where users were not able to view the threaded replies of chat conversations in Image Viewer. *(FTKC-6058)*
26. Resolved an issue where the ‘Completed Date’ field in the Job Queue was empty for jobs in ‘Failed’ or ‘Completed with Errors’ status. *(FTKC-24410)*

27. Resolved an issue where the user was unable to view the contents (text/code) of HTML files in the Text Viewer. *(FTKC-20733)*

28. Resolved an issue where a prompt was displayed to install the Desktop Viewer when it was already installed. Closing the desktop viewer while leaving FTK Central open would prompt the user to install the viewer again since it was no longer running. *(FTKC-21340)*

29. Resolved an issue where a mismatch occurred between the search counts within ‘Search Term Report’ and counts generated with an index search immediately after a case was processed. *(FTKC-24319)*

30. Resolved an issue where users with the ‘View Tags’ and ‘Assign Tags’ role were not able to view or access the coding panel. *(FTKC-23085)*

31. Resolved an issue where the creation of DAT type load file for an export was being processed indefinitely. *(FTKC-24450)*

2.2 Production Issues

1. Resolved an issue where incorrect values were displayed in the ‘EndAttach’ column while exporting it as a load file. *(FTKC-14333)*

   Note: The incorrect values were displayed for 'BegAttach' and 'EndAttach' columns only when they did not possess any family or child files.

2. Resolved an issue where the load files were not generated for Production when the parent and child files in the case were placed in different batches. *(FTKC-24450)*

2.3 Performance Issue

1. Resolved an issue where a delay occurred while trying to view the ‘Manage Custodian’ and ‘Custodians Mapping’ pages of an Active Directory consisting of more than 350,000 custodians. *(FTKC-23084)*
2.4 Collection Issue

1. Resolved an issue where the Parent Directory of a folder was not displayed in the ‘Responsive File Path’ of the targeted Network Shares associated with the Custodians. *(ER-12384)*

2.5 Viewer Issue

1. Resolved an issue where the ‘Image’ viewer of a file was not restored upon performing the ‘Restore Original PDF’ operation. *(FTKC-21968)*

2.6 Miscellaneous Issues

1. Resolved an issue where the ‘Network Shares’ and ‘Computers’ data sources were not automatically mapped to the ‘Groups’ of the custodians imported via CSV. *(FTKC-21676)*

2. Resolved an issue where some of the options enabled for a custom processing profile were not saved. *(FTKC-17770)*

3. Resolved an issue where the ‘CaseStatSyncDelayInHours’ configuration setting was not available in ADG.WeblabSelfHost.exe.config file. *(FTKC-20734)*

*Note: For more information, refer to the App Config Guide.*
3 Open Issue

1. No files are displayed when a user navigates from ‘List view’ to ‘Thumbnails view’ after filtering the ‘DeDuplicate Type’ column using the ‘Secondary’ column value. (*FTKC-31257*)

2. The ‘Desktop Viewer’ icon in native viewer remains highlighted even after closing the ‘Desktop viewer’ pop-up using the close button. (*FTKC-20692*)

3. The Desktop Viewer download prompt is displayed even when the viewer is already installed on the computer. This issue occurs only when the user does not respond to the ‘Open FTK Plus’ pop-up displayed upon clicking on the ‘Desktop Viewer’ icon. (*FTKC-14570*)

4. The Events selections made in the Timeline view are not retained when you scroll down to load more events. (*FTKC-26674*)

5. In the Timeline View, the date and time information for Events is displayed in the UTC timezone, regardless of the Timezone selected for the Case. (*FTKC-32102*)

6. Incorrect results are displayed upon applying the exclusion filter for the options categorized under the ‘Internet and Browser’ Artifacts filter. (*FTKC-32100*)

7. The search operation does not filter out the events in the Timeline View when opened in a new tab from the Mini Timeline. (*FTKC-32125*)

8. Upon navigating to the files’s folder Path in a new tab and performing bulk operations within that Folder Path using the ‘Select All’ hyperlink option, the action is applied to all the files across all the tabs, regardless of the selected files in a single tab. (*FTKC-31719*)

9. The filtered search count is retained and displayed across all other tabs upon switching from a filtered Timeline, Thumbnail, or List view. (*FTKC-32148*)

10. Incorrect results are displayed when any of the following common filters are combined with any other filters and exclusion is performed. (*FTKC-32109*)
   - Custodians
   - Document Content
   - Extensions

11. Upon clicking the ‘Previous’ or ‘Next’ buttons from the pop-out viewer while viewing multiple files in different pages, wrong files is displayed. (*FTKC-32064*)
12. The files selection is not highlighted (in the central grid of User-Interface) while viewing files. This issue occurs while viewing a file in Multimedia View in the pop-out viewer. *(FTKC-32064)*

13. In the Timeline view, upon adjusting the (lower) bar graph and applying or removing the filters, the (upper) Bar Graph is not updated automatically to reflect the frequency of events corresponding to the filters. *(FTKC-30529)*

14. No files are displayed in the List view when you switch back from the Thumbnail or Timeline View. This issue occurs when you view the file in Review mode via the Batch Review. *(FTKC-32001)*

15. In the upgraded version of Exterro FTK Suite 8.0, accessing the old hyperlinks (such as Approval, Custodian, and IT) of a LitHold results in displaying a blank page. *(ER-13936)*

16. The highlight of the ‘Desktop Viewer’ icon is not disabled upon closing the ‘Desktop Viewer’ window. *(FTKC-20692)*

17. The value for the ‘File Count’ and the ‘Hits’ columns are updated as ‘0’ for the collections enabled with the ‘Collect Specific Sectors’ option. This issue is applicable only for the collection initiated for ‘Computers’ data sources. *(ER-13273)*

18. Exterro Mobile Parsers options are not selected by default for the profiles created with the below obsolete categories of Android, Blackberry, and iOS: *(FTKC-13436)*

- Android Application
- Android calendar
- Android Hangouts
- Android Gmail
- Blackberry IPD backup file
- iOS WeChat
- iOS WhatsApp
4 Limitations

4.1 General

1. The newly created bookmarks are not displayed in the ‘Bookmarks’ tab of ‘Common Filters’ until the application is refreshed. *(FTKC-30618)*

2. The search operation for non-Western characters (such as characters of China, Japan, Korea, India, and Middle East origins) can be performed only in the ‘Alternative View’ of ‘Native’ Viewer. *(FTKC-30943)*

3. Pressing the ‘Enter’ keyboard button while selecting the events from the ‘Filter events’ drop-down in the Mini Timeline will deselect the last selected event. *(FTKC-30766)*

4. The XRY option is not automatically enabled during Evidence Processing for the evidence consisting of Extended XML files. *(FCR-19941)*

5. When the ‘Stack Duplicates’ operation is performed without the Primary Object, the filter operation results in displaying no results. *(FTKC-31257)*

6. You cannot delete files from a case in the FTK Central application. *(FTKC-26453)*

7. The 'Results Report' for Microsoft Teams data sources collected via ‘Export API’ will have the following limitations: *(ER-12411)*
   - The ‘File Breakout’ tab will be empty, since the export chats are collected as message files.
   - The files attached to the messages will not be displayed under the ‘Collected Files’ tab.
   - The ‘Subject’ column under ‘Collected Email’ tab is empty since they are collected as email files.

4.2 Mini Timeline

1. Upon clicking the Enter key after selecting the filters in ‘Mini Timeline’, the last selected filter is unselected. *(FTKC-30766)*

2. The ‘Mini Timeline’ data is not generated for the EXIF related date stamps. *(FTKC-30760)*
Contact Exterro

If you have any questions, please refer to this document, or any other related materials provided to you by Exterro. For usage questions, please check with your organization’s internal application administrator. Alternatively, you may contact your Exterro Training Manager or other Exterro account contact directly.

For technical difficulties, support is available through support@exterro.com.

Contact:
Exterro, Inc.
2175 NW Raleigh St., Suite 400
Portland, OR 97210.
Telephone: 503-501-5100
Toll Free: 1-877-EXTERRO (1-877-398-3776)
Fax: 1-866-408-7310
General E-mail: info@exterro.com
Website: www.exterro.com