



VCAforensics Release Notes

VCAforensics Version: **1.3.4**

Release date: **29/08/2023**

VCAforensics is a metadata aggregation and search tool, providing the facility to store and search huge amounts of VCAcore generated metadata. VCAforensics uses a Server/Client architecture and both aspects of the software will be released in tandem.

The release notes outline all the changes made to VCAforensics in this release period. Changes and features described are valid for all listed supported platforms unless otherwise stated.

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Release Summary

The v1.3.4 release is a hotfix release focusing on extending tracker support functionality. This release also introduces some fixes as well as a number of quality of life improvements.

Supported Platforms

- VCAforensics Server (Windows 10 x86)
- VCAforensics Server (Ubuntu 22.04 x86)
- VCAforensics Server (Ubuntu ARM64)
- VCAforensics Client (Windows 10 x86)
- VCAforensics Client (Ubuntu 22.04 x86)
- VCAforensics Client (OSX)

VCAserver compatibility `v2.1.1` or greater

New Features

As this is a hotfix, there are no new features included as part of this release

Bug Fixes

This release contains fixes for the following issues:

- Added option to select Skeleton Tracker when adding video source if the VCAserver channel is assigned with VCAbehaviour license
- Fixed an issue that if the VMS was offline after configuration in Forensics, the Add Video Source loading was delayed
- Fixed an issue that VMS playback did not display the correct error message when there is no data to play

Historic Fixes

Historic fixes record all fixes made to VCAcore regardless of platform

v1.3.3

- Added save prompt when leaving the Image Target modification page without saving
- Added 'Select all / Unselect all' option to channel selection page
- Added the clarification of 'Person Only' to the Image Search Targets page
- Added 'Sort by time' option to image search results view
- Added a recovery feature to the Forensics server to periodically check and maintain important VCAserver settings (e.g. Tracking Engine, Image Search)
- Changed 'generate_features' interval to `1000ms` for Jetson and `500ms` for x86, when adding Video Sources

- Changed the maximum number of Image Search Targets from 10 to 20. The maximum number of images per Image Search Targets is 5
- Changed the first screen to the dashboard when starting application
- Fixed memory leak issue when the Forensics server is not configured after installation
- Fixed the failure of adding video source due to remaining license calculation error
- Fixed a problem where sometimes a specific object could not be selected as an Image Search Target
- Fixed an issue where the image search loader rotated infinitely in some cases
- Fixed an issue that the Video Source list was not displayed when changing the VCAserver password
- Added Zone shape to the Configure Zone page
- All Video Source channels can be changed to the selected Tracking Engine by clicking on Tracking Engine header
- Improved the stability of snapshots In Video Sources from VCAserver, by adding retries.
- Added additional information on dashboard
- Improved rows as selectable items in Video Source page. This helps the user not lose the focus of the last edit
- Shortened the query response for Jetson Orin platform by increasing available memory for Elasticsearch to run on a single node
- Shortened the processing time on Jetson Orin platform for feature generation
- Improved license page for Jetson platform sometimes not updating even though it shows complete
- Fixed an issue with Video Source page not displaying properly due to Hikvision NVR giving null channel name when default names are present (Still a known issue when the Hikvision NVR is registered for VMS playback).
- Improved VMS playback to change server-side playback to client-side playback
- Improved the Licenses page to properly display evaluation license expiration
- Increased the channel selection page size

v1.3.1, v1.3.2

- Unified Image Search Targets editors into a single UI for consistency
- Added search limits to the Image Search Targets editor; Max 20 Target registrations, Max 5 multi query images per Target, upload image size must be less than 1MB
- Fixed issue with Forensics server's configuration file corrupting, when Forensics client disrupts the initialisation process
- Changed the maximum snapshot resolution of VCAserver to 720p for better Image Search results.

v1.3.0

- Changed to the new dark theme
- Changed the maximum snapshot resolution of VCAserver to 480p.

- Added the recovery function to VCA settings by VCAforensics if the original settings are changed on VCAserver
- Added ability to reassign licenses that were used on FS servers that are no longer available

v1.2.0

- Added a check box for all channels selection on adding video sources
- Added delayed login process after incorrectly entering the password 5 times
- Changed search results page to have a maximum of up to 10000 results
- Fixed issue preventing using VCAnx in cases where Nx Witness VMS is not configured.
- Fixed issue causing all channels to be restarted after the addition, deletion or modification of video sources
- Improved the speed of listing of all video sources
- Reduced the metadata storage delay. Latest metadata can be searched after about 1 minute.
- Fixed issue with objects noting included in search results in the case of duplicate object id
- Improved the speed and responsiveness of the UI for a large number of search results
- Improved responsiveness of query results in Elasticsearch for some cases by preventing the heap memory from being swapped.

v1.1.1

- Added Forensics server for linux arm64 (Jetson Series or Raspberry Pi)
- "reset config" and "delete all data" functions now work without reboot

v1.1.0

- Added Support for DLPT Metadata
- For VMS section, if the VMS is connected properly, VMS password can be confirmed (FOREN-333)
- The .zip file structure of 'Export Snapshot' and 'Export Timeline as Video' is changed to contain jpeg images with bounding boxes or redactions in the root folder and original jpeg images in 'original' folder. (FOREN-329)
- Object bounding box is now shown for x1 playback of the Detail view
- Fixed issue internal error "divide by zero" on Xeon system with a small number of cores (FOREN-328)
- Fixed UI issue in detail view, objects not meeting the filter condition now have gray dotted bounding box.
- Fixed IP address for the license server not being shown in the License page (FOREN-337)
- Fixed "Bookmark.." error message being shown when the video source selected in Search page is removed (FOREN-340)
- Fixed issue persisting Nx Witness password without restarting service.

v1.0.1

- UI Rewording (FOREN-282) Export Thumbnails → Export Snapshots, Search similar object → Search Similar Object, Previous Chunk → Move to the start, 10 frames previous → Go back 10 frames, Next Chunk → Move to the end, 10 frames next → Go forward 10 frames, License Assigned → License Allocated, License Unassigned → License Unallocated
- Client app is now maximized on launch (FOREN-283)
- When clicking 'Now' on the calendar, the timeframe is changed from 30 minutes to 1 hour (FOREN-295)
- Added Sort video sources by Channel Name (FOREN-288)
- Added support for drag selection in channel selection in search view (FOREN-290)
- Added search profiles in similar object search feature (FOREN-293)
Duration - Now to End of Prev. Search (default), Next 1 Hour, Last 1 Hour, Same as Prev. Search
Channel - All Channels (default), Current Channel, Same as Prev. Search
- Fixed issue preventing Windows Client connecting to server unless autologin is selected (FOREN-285)
- Fixed internal Server Error on initial run (FOREN-276)
- Fixed server installation timeout error on Windows (FOREN-277)
- Fixed issue when opening thumbnail from search view, with main object focused not being the same as the thumbnail (FOREN-244)
- Fixed UI issue with preventing tabs from being closable if many are open (FOREN-268)
- Added support for XMP metadata in snapshot export (FOREN-274)
- Fixed Forensic server crash due to connection timeout to the License server (FOREN-286)
- Fixed VMS playback not working after supporting HTTPS connection from the forensic server

v1.0.0

- First Release

Known Issues

There are no known issues.

Release History

Below is the release history from v1.0.0 covering the major and minor features released regardless of platform.

v1.3.0

- Image Search
- VCAserver Configuration Options
- Thai Language Support

v1.2.0

- Search Results Page Improvements
- System Resources

v1.1.1

- New VCAforensics Server Installer

v1.1.0

- Export Manager: Redaction
- Coldstore and Emstone VMS Support

v1.0.1

- No features included as part of this release.

v1.0.0

- First Release

Deep Learning Model History

Below is the release history for the deep learning models used in Forensics

v1.3.0, 1.3.1, 1.3.2, 1.3.3, 1.3.4

Algorithm	Version	Comments
REID	v2.9.2	First Release

For support queries and documentation please see [VCA Technology support page](#).

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