



## VCAforensics Release Notes

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Version: **1.6.0**

Release date: **22nd June, 2026**

The release notes outline all the changes made in this release period. Changes and features described are valid for the platforms listed under [Supported Products](#) unless otherwise stated.

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## Release Summary

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The V1.6.0 release focuses on introducing advanced artificial intelligence search capabilities, optimizing search performance for large-scale operations, and resolving critical system and backend issues.

The key highlights are:

- **AI & Face Search Introduction:** Implemented natural language AI Search and fully introduced Face Search functionality.
- **Search Optimization:** Revised the search logic to efficiently handle 10,000+ results with multi-phase optimization and improved vector generation.
- **Infrastructure Upgrades:** Verified Elasticsearch 8 upgrade, added automatic device type detection, and enhanced installation configurations.
- **System Reliability:** Resolved critical bugs including excessive CPU usage on NUMA systems, VRAM leaks, and communication timeout issues.

## Supported Products

Supported platforms for VCAforensics server:

- ABP301, ABP302 (Jetpack 6.0.2, arm64) - Not supported in v1.6.0
- ASP501, ASP502, ASP503, General desktop PC (Ubuntu 22.04, x86) - Supported
- General desktop PC (Windows 10, x86) - Not supported in v1.6.0
- NUMA server system (Ubuntu 22.04, x86) - Supported

Supported platforms for VCAforensics client:

- General desktop PC / Laptop (Ubuntu 22.04, x86; Windows 10, x86; macOS)

## New Features

- **AI Search:** Implemented natural language search functionality, including automatic channel selection and search history.
- **AI Search:** Added the AI Search page UI/UX layout and search result screen implementation.
- **AI Search:** Extended natural language search to support object search beyond just people.
- **AI Search:** Set the default search range to the last 1 hour when no time is specified.
- **Face Search:** Fully introduced Face Search functionality.

- **Face Search:** Enabled face features exclusively on channels with a Face license assigned.

## Improvements

This release contains improvements in existing features:

- **Search Optimization:** Revised the search logic for 10,000+ results with multi-phase optimization.
- **Search Optimization:** Optimized vector storage and Elasticsearch warm-up for natural language search.
- **Infrastructure:** Verified the Elasticsearch upgrade from version 7 to 8.
- **Infrastructure:** Added automatic Device Type server detection.
- **Channel Management:** Allowed VCAnx channel addition without requiring a VMS connection.
- **Installer:** Added the ability to configure the storage path for MetDetect data during server installation.

## Changes

This release contains important changes:

- No changes included as part of this release

## Bug Fixes

This release contains fixes for the following issues:

- **System Reliability:** Fixed excessive CPU usage on real-time channels in NUMA systems.
- **Data Integrity:** Fixed data corruption issues during SSE reception.
- **AI Search:** Fixed a VRAM leak in the LLM image description feature.
- **Service Execution:** Fixed an issue where other services failed to run when MetDetect was not installed.
- **License Allocation:** Fixed incorrect license code storage during the MetDetect channel info DB retry process.
- **Search Page:** Fixed an issue where deleted channels were appearing in natural language search results.
- **Communication:** Fixed a websocket handshake timeout issue.
- **Communication:** Fixed infinite reconnect attempts to the previous server upon socket connection failure.
- **Security:** Fixed a duplicate token decrypt error.
- **Channel List:** Fixed a duplicate channel ID issue in cluster environments.

- **Media Export:** Fixed an ffmpeg crash caused by excessive frames during media export.
- **MetDetect:** Fixed an issue where retries were not working on SQLite errors while MetDetect was running.
- **UI/UX:** Fixed an issue where real-time channel thumbnails were not refreshing, and resolved metadata time sorting errors.
- **Backend:** Fixed an Elasticsearch copy error during server upgrades.

## Known Issues

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Outlined below are known issues that are under consideration by the development team.

- No known issues included as part of this release

## Dependant Libraries/Applications

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The dependent applications and libraries used within this product are provided below. For compatibility a deployment environment should match the versions given below.

Library	Version

## Test Environment

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Details of the testing environment used in QA for this release is provided below:

OS Version	Application Version
Ubuntu 22.04 LTS (L4T 36.3.0, Jetpack 6.0.2)	
Ubuntu 22.04 LTS (x86_64)	
Windows 10 / Windows 11 (x64)	

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

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