VCAcore Release Notes

Version: **2.4.2**

Release date: **April 10, 2026**

VCAcore is an analytics engine developed by VCA Technology, available as a standalone application for Windows and Linux (VCAserver) and as the VCAsdk libraries which can be integrated into third party applications such as camera firmware or embedded into a VMS.

The release notes outline all the changes made to VCAcore in this release period. Changes and features described are valid for all platforms which VCAcore is distributed on (VCAserver and VCAsdk) unless otherwise stated.

Index

1. Release Summary
    1. Supported Products
    2. New Features
    3. Other Features and Enhancements
    4. UI and Usability Improvements
    5. Bug Fixes
2. Deep Learning Model History

Release Summary

This is a major release, bringing new features, a host of usability improvement and bug fixes.

Supported Products

- VCAserver (Windows 10 x86)
- VCAserver (Ubuntu 22.04 x86, Ubuntu 20.04 ARM/Jetpack 6)
- VCAsdk (Windows 10 x86, Ubuntu 22.04 x86, Ubuntu 20.04 ARM/Jetpack 6)

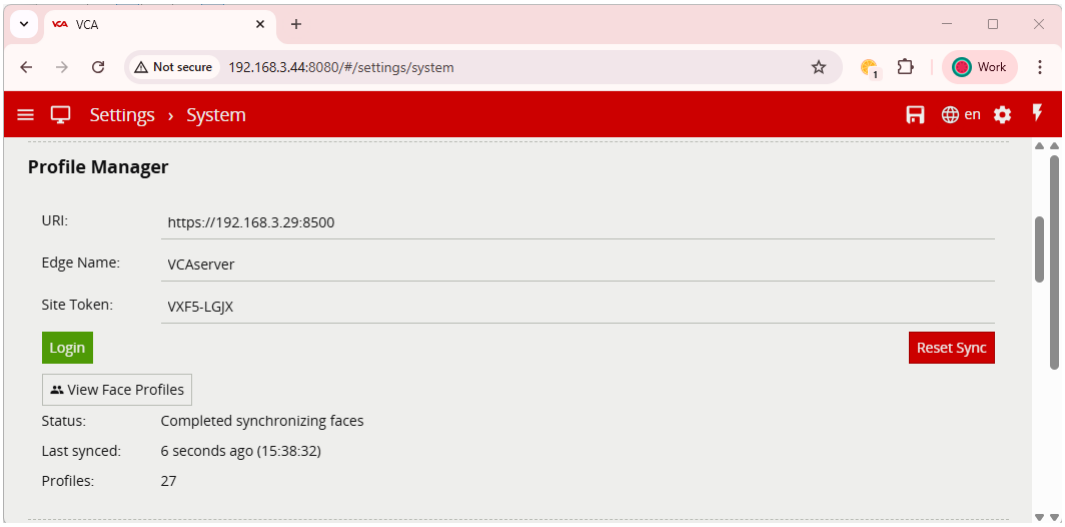
New Features

Deep Learning Fire and Smoke (DLSF) Tracker

The Deep Learning Smoke and Fire (DLSF) tracker tracks smoke and fire in both the indoor and outdoor scenes. The DLSF tracker uses deep learning object detection method, providing bounding box locations of smoke and fire present in the field of view. This new tracker identifies and tracks Smoke and Fire as distinct objects that can be used with the extensive VCAcore rule set. This allows for both the detection, as well as absence, of smoke and fire objects, applicable to health and safety early warning systems but also industrial process monitoring functions.

The DLSF tracker is added as ***experimental feature*** and will be extended with appropriate configurations in future releases.

Face Recognition within VCAcore



Face Profile Manager is now accessible through VCAcore's System Menu. After installing Face Profile Manager (v1.6.4 or above) on the same network domain, the URI and the site token of Face Profile Manager are provided in the System section.

Other Features and Enhancements

- Add extended ID (EID) to object metadata
- Improve face detection algorithm
- Add channel name and description to loss of signal event
- Consolidate license usage across licenses of the same type in the UI
- Add channel ID to GStreamer log messages
- Add Head metadata to DLST

UI and Usability Improvements

- Remove Enterprise label from Licenses page
- Remove beta tags from face recognition and profile manager in UI
- Update Speed Observable UI to handle unit property
- Update GPU error message to instruct NVIDIA driver update
- Align all settings on the system settings page
- Add channel delete confirmation pop-up
- Avoid rendering profile name twice with Face and Tracker Internal State enabled

Bug Fixes

This release contains fixes for the following issues:

- Fix labels being missed in DL Colour Classifier
- Fix zone distortion under load
- Fix crash in logging GStreamer messages
- Fix crash in ONVIF service
- Fix erroneous building message when models are already built
- Fix expiry message rendering

Deep Learning Model History

Below are the deep learning models included in this release.

Algorithm	Version	Comments
DLOT	v4.20.1	
DLPT	v2.1.1	
DLTT	v1.1.5	
DLST	v2.2.12	Trained with additional data
DLFT	v1.1.3	
DLF	v2.18.0	
Fall	v1.1.19	Trained with more data to reduce false detections
Aggressive	v1.1.12	
HOI	v3.1.2	Larger architecture with more data added
REID	v4.0.2	
DLAD (torso)	v1.0.67	Added data to reduce false positives
DLAD (head)	v1.0.69	Added data to reduce false positives
DLCC	v2.2.0	First release (in 2.4.0)
DLSF	v1.1.0	First (experimental) release of in-house smoke and fire model

For support queries and documentation please see VCA Technology support page.

VCA Technology Ltd
15, Riverside Court
Beaufort Park
Chepstow
Monmouthshire
NP16 5UH
United Kingdom

www.vcatechnology.com