



VCAcore Release Notes

VCAcore Version: **1.3.2**

Release date: **24/03/2020**

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

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 (VCAbridge, VCAserver and VCAsdk) unless otherwise stated.

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Release Summary

Release v1.3.2 is a release, focused on VCAbridge. This release brings all the new features of v1.3.0 and v1.3.1 to the VCAbridge platform, please see Release History for full details.

Supported Products

- VCAbridge

New Features

Deep Learning Presence Rule

A new rule has been added to VCAcore in the form of DL Presence. This rule is designed to enable a fast and simple set up for a given video channel and comprises the Presence rule functionality with the Deep Learning Filter in a single rule.

Bug Fixes

This release contains fixes for the following issues:

- Fixed intermittent issue with sources being removed from actions on bridge restart
- Calibration for a channel is now automatically enabled when rules requiring it are added in the UI
- Time properties of rules now use consistent units in UI

Historic Fixes

Historic fixes record all fixes made to VCAcore regardless of platform

v1.1.0

- The GStreamer backend has been upgraded to v1.16
- HLS settings have been tweaked to improve stability
- Corrected an issue where the Sureview template in the HTTP / Email action was not creating the correct XML template.

v1.1.1

- Corrected an issue where it was possible to add more than two line counters to a single zone (line).
- Corrected an issue where when returning back to view a channel stream it appeared blacked out.
- Connection to VCAcore RTSP server is now faster and more stable.
- Fixed direction widget not showing when adding new direction rule.
- The VCAcore UI now uses single system stats SSE stream instead of separate cpu, memory and uptime.
- Zones are converted from polys to lines when a line counter is attached.

- Added line counter properties to LR graph.
- Line counter properties are now synced across all other line counters attached to the same zone.
- Fixed direction property name mismatch.
- Fixed incorrect direction being shown when switching between zones.
- Fixed zone not being updated on line counters.
- Fixed favicon being constantly requested by the UI.
- Fixed VCA filter rules being deleted when switching between channels.
- Only display direction widget for current channel
- Fixed 'Delete All' zones button.
- Added separate action for delete all that checks if any zone is in use
- vca-observable: Replaced incorrect use of this.pop with splice and fixed incorrect variable name.
- Line counter properties are now hidden when zone is null.
- Fixed bug causing the wrong zone to be deleted.
- Split the line counter observable into 2 separate ones for A and B
- General network improvements around falling back to 192.168.10.10 when DHCP fails.
- IPAdmin tool will now report the current IP address when the VCABridge is using DHCP or when a static IP address has been set. Please see known issue for behaviour when on the fallback IP address 192.168.10.10.
- Removed speed-preset console warning.
- Fixed events not being generated when LR direction is attached to a line.
- Fixed bug where events are generated for both line counter and directions even though only one is selected.
- Fix crash caused by divide by zero.
- Fixed bug where some snapshots are not added to an email action.
- Fixed a bug where having multiple actions with templates caused a crash.
- Fixed headers when sending multipart HTTP requests

v1.1.2

- The ONVIF discovery and events service has been restored
- Fixed recurrent Learning Scene issue in VCAServer (Windows)
- Fixed issue where VCAcount and VCApresence licences were not being correctly handled in VCAServer
- Fixed issue when calibrating a direction rule which resulted in the UI focus falling to the docked zone view

v1.1.3

- Improved hardware encoding/decoding performance on VCABridge
- Resolved issues where static ip settings are lost on reboot
- Resolved issues with fallback ip address remaining after DHCP is restored

v1.2.0

- Fixed an issue where rtsp streams would periodically restart when using certain cameras with metadata streams.
- Improved rtsp server performance on Bridge (using hardware encoding).

- Fixed issue where changes to the web port on VCAbridge were not persisted between restarts.

v1.2.1

- Fixed an issue where the Previous LR didn't work correctly with per-target mode switched off
- Fixed an issue where some LRs would stop working when VCAcore is restarted depending on the order that they are added
- The interval source now correctly substitutes the name property in action templates
- Fixed issue where the values were substituted twice for line counter template tokens where two way detection was enabled

v1.2.2

- Corrected issue where the DL-Filter triggered the source rule as well as itself.
- (SDK) Added the ability to make the configuration storage volatile.
- (SDK) Fixed a bug where BGR frames were not correctly handled.
- (SDK) Fixed an issue where creating a service using the SDK inside a GUI application created a new console window for 'vca-daemon-cli'.
- (SDK) Fixed an issue where the user of the SDK on Windows couldn't place the SDK and associated libraries into a subdirectory called 'vca'.
- (SDK) Fixed a crash caused by creating app channels from multiple threads.
- (SDK) Document the thread-safety aspects of the SDK.
- (SDK) Added additional example code.

v1.2.3

- Fixed high CPU/RAM usage issue with certain frame rates
- (SDK) When the user channels feature is disabled in the SDK, channels are now sorted by host_id in UI
- Reduced size of VCAcore install packages
- Removed GPU additions package for VCAserver (Linux)
- Selection of GPU or CPU use for DL filter now handled at runtime

v1.2.4

- Fixed issue with line counter not generating events after VCAcore service is started, until the configuration is changed.

v1.2.5

- Fixed crash in the Onvif Discovery service preventing VCAcore from starting when DHCP is absent

v1.2.6

- Fixed source timing issue preventing the addition of a file sources

v1.2.7

- Fixed issue when loading a configuration with certain rules (linecounter, etc.) in the SDK

which preventing the loaded rules from working.

v1.3.0

- Due to unsupported integration the Milestone action and source have been removed. Integration support for Milestone can be found on the [VCA Technology website](#).

Known Issues

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

- There is a known issue with Chrome v76+, and any version of VCAcore before v1.1.1. When upgrading through the UI, after browsing for the upgrade file the user is not able to press upload button. Repeating the process using Firefox or Safari will allow the upgrade to be completed, at which time the upgrade process will be accessible again in Chrome.

Release History

Below is the release history for v1.1.x covering the major and minor features released regardless of platform.

v1.1.0

- VCAsdk released
- ONVIF Discovery and Events Support
- Additional Logical Rules Support
- Arm / Disarm Actions and Sources
- Deep Learning Filter Options
- Verifier HTTP Action Template

v1.1.1

- CPU and Memory Information for VCAbridge
- Filters in Logical Rule

v1.1.2

- No features included as part of this release.

v1.1.3

- No features included as part of this release.

v1.2.0

- System Logging
- Licence Selection

v1.2.1

- No features included as part of this release.

v1.2.2

- No features included as part of this release.

v1.2.3

- JPEG Video Preview

V1.3.0

- Dwell Rule
- Colour Filter
- User Interface Optimisations
- Added Width, Height and IP Address Tokens
- Metadata Customisation Options
- Digest Authentication support in HTTP Action
- User Interface Customisation
- Metadata RTSP Stream
- VCAserver Recovery Service

v1.3.1

- Improved DL-Filter model

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

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