

SAIMOS[®] VA 2021 R2 Release Notes

- **First Release Date:** 14th Jan 2022
- **CODENAME:** William
- **Current stable build:** 4.1.4 (2022-01-19)

General

SAIMOS[®] VA 2021 R2 (William) is the year end release following up 2021 R1 and offers more stability, heightened security, better performance and, of course, new functionality. For more information please refer to the following sections and if you have any questions, please don't hesitate our support via support@saimos.eu or at our [support page](#).

Important Notes

As the build number base was increased to 4.* with the last release (2021 R1) this indicates a fully redesigned backend with numerous changes to the underlying structure in the mantle of the 4th generation build of SAIMOS[®] VA. This means new architecture requirements as well as the necessity for a database migration for upgraded systems from 2020 R3 or older. Here are the most important facts for upgrading to or installing a fresh 2021 R2 release.

Structure

Utilizing our new installer, SAIMOS[®] VA now comes with a proper static/dynamic data separation also on Windows systems. That means on Windows, a newly installed release will have the following file structure:

- Static installation files and binaries are located at

`C:\Program Files\SAIMOS VA`

- Dynamic configuration files, logs and configuration databases are located at

`C:\ProgramData\SAIMOS VA`

Installation files as well as dynamic data located at `C:\ProgramData\cogvis3` will not be touched by the installation of the 2021 R1 release. To migrate old data towards the new release please refer to the [Upgrade](#) section below. After a successful migration the previous installation could be removed manually if desired.

Upgrade from 2020 R3 or older

Due to a complete change in file structure it is recommended to do a clean upgrade from older SAIMOS[®] VA versions (2020 R3 or older) to the 2021 R2 release. Necessary steps are:

- Create a fresh backup of the current running SAIMOS[®] VA release
- Save the backup dump to a save location
- Uninstall all previously installed SAIMOS[®] VA packages from the system
- Install SAIMOS[®] VA 2021 R2 on the system

- Restart the OS
- Perform a backup restore using the new SAIMOS® VA Command Prompt

After successfully completing the above steps, your previous SAIMOS® VA release should be successfully ported to 2021 R2. For further upgrade instructions, please refer to our new web based manual that is downloadable for offline use at the SAIMOS® VA software repository. If you need any help or have problems upgrading, please don't hesitate to contact our support.

Upgrade from 2021 R1

Upgrading from 2021 R1 only requires to run the 2021 R2 installer and upgrade by installation. However, it is always recommended to do a full backup before upgrading the system. Please refer to the manual for upgrade instructions.

License upgrade (for 2020 R3 or older)

The 2021 R2 release represents a major upgrade for releases 2020 R3 or older and will require re-licensing. Customers with active update plans will be able to acquire a refreshed license via our [licensing portal](#) or by contacting our [support](#). Customers without an active update plan should contact their SAIMOS® sales representative for upgrade options. After upgrade or installation of 2021 R2 a new 30 day trial period will be activated to guarantee continuous operation and to ease the update process. If you are facing any problems or have any questions, please don't hesitate to contact us.

CPU requirements

Due to the heavy use of the Intel® OpenVINO™ Toolkit SAIMOS® VA is compatible with the following CPU generations:

- 6th to 11th generation Intel® Core processors (or newer)
- 1st to 3rd generation of Intel® Xeon® Scalable processors

Older CPU models will not be able to run the Node runtime as well as channels. However, the SAIMOS® VA Server might still be operable (however it is not tested anymore by SAIMOS®). Backports for older CPU models will not be supported from this release onwards.

Major improvements and news

- **Fully reworked decoding backend**

The decoding backend of SAIMOS® VA has been fully re-designed and is now based on the GStreamer framework. This enhances compatibility and performance for direct camera decoding and paves the way for Milestone XProtect® VPS integration and native decoding (which is expected with the 2022 releases). The new decoding engine is easier to configure, performs better and offers better compatibility for direct stream decoding. Now hardware decoding will be utilized automatically (unless it is forced off) and a new safe mode enables automatic detection of the best decoder for the given stream.

- **Improved Scrambler**

In accordance with the new decoding engine, the encoding engine of Scrambler has been re-designed for GStreamer as well and offers better performance, higher encoding quality, lower latency, H264 support and an expert setting where the GStreamer pipeline can be manipulated for ultimate stream optimization.

- **Improved SAIMOS Edge for Azena**

SAIMOS Edge apps have been updated for the latest Azena OS version. The connection between Azena apps and SAIMOS Edge channels is now fully encrypted and more stable as well.

- **Improved Occupancy Management**

Due to multiple requests, 2020 R2 enables you to assign one counting zone to multiple Occupancy Areas and enables more sophisticated Occupancy Area design. The assignment of Counting zones to Occupancy Areas has been reworked and improved for better usability.

- **Classification filter option for Lidar**

Lidar channels now have the option to filter by object classification per Lidar zone. This enables you to only count / alarm on persons or cars for example.

- **Improved and Milestone XProtect® Plugin**

The new Plugin for Milestone XProtect® has been improved and is now more stable and offers new options for the users with regards to visibility management of certain components. Additionally, now all SAIMOS® XProtect® Plugins can be installed at the same time without any conflicts.

Behind the scenes (security, stability, fixes)

- **Milestone Plugin:**

- Backend communication improvements
- Library updates
- Added role-based visibility for various components and settings

- **Server & Node:**

- *Enhancements:*
 - Added ability to stop auto-refresh on Face Log, LPR Log, System Log, and new Event Log
 - Date Range filter on new Web UI displays now allows selection of hourly relative ranges
 - Various log reports (Event Log, System Log, Face Log, LPR Log) now allow filtering by time of day
- *Security Fixes:*
 - Upgrade embedded PostgreSQL to 12.9
 - Upgrade BECOM Argos bta lib to 3.3.2
 - Library upgrades for all third-party libraries (where available)
- *Bug Fixes:*
 - Channels using Milestone as stream source now refresh the login token automatically, preventing the channels from stopping receiving frames after the token expires
 - Improved reliability of periodic background jobs on systems with high load
 - Counting reports: the first and the last week of reports by week now exclude the data outside the requested date range

Service Builds

Build 4.1.4 - 2022-01-19

- [Fixed] Channels using Milestone frame source are ignoring channel stream resolution.

Build 4.1.2 - 2022-01-18

- [Fixed] Frame rate of channels using Milestone to fetch non-JPEG video streams is limited to 1 FPS.
- [Fixed] Enabling or disabling a large number of channels from Web UI slows down the server significantly, possibly resulting in Web UI becoming completely unresponsive.