

SAIMOS VA 2020 R2 Release Notes

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CODENAME: Sidle

Current stable build: 3.2.12.8 (October 6, 2020)

- General
 - Server
 - Node
- Products
 - SAIMOS LiDAR (initial)
 - SAIMOS LPR
 - SAIMOS Edge
 - SAIMOS Face
 - Perimeter
 - Count
 - SAIMOS VA Milestone XProtect® Plugin
 - Service Builds (3.2.12.x)
 - 3.2.12.1 (non critical)
 - 3.2.12.2 (non critical)
 - 3.2.12.3 (critical – Ubuntu only, known since 3.2.12.2, existent since 3.2.12)
 - 3.2.12.4 (critical, known since 3.2.12.3, existent since 3.2.12)
 - 3.2.12.5 - 3.2.12.7 (non critical)
 - 3.2.12.8 (non critical)

General

SAIMOS® VA 2020 R2 offers a full new release following the 2020 R1 release of SAIMOS® VA. This release incorporates the Intel OpenVINO framework on the backend (Node) for the first time and the frontend (Server) has been fully ported to Python 3 for performance and security improvement. Additional products and algorithmic, stability and security improvements are offered within this release. Due to the addition of new AI frameworks the support for non AVX2 processors has been deprecated for SAIMOS VA Node systems. SAIMOS still provides non AVX2 builds for the 2020 R2 release but will drop support for the 2020 R3 release. Using the non AVX2 build of the SAIMOS® VA Node will not support all DeepLearning features of SAIMOS® VA.

Server

- Full Python 3 support for the server
- Python is now delivered as embedded install, no external Python installation is necessary anymore
- New System Log with enhanced UI and performance
- New Event Log preview (no Event Recording support yet) with enhanced UI and performance
- Improvement of Licensing for Core and Standard channels
- Improved and faster installer (installation times below 60s have been reported on performant systems)
- Improved Database Management with more performant UI and asynchronous processing
- Improved web socket stability and performance
- General security and stability fixes
- Product addition SAIMOS LiDAR
- Improved database performance
- Improved Face Log with additional reporting functionality and metadata display

Node

- Added OpenVINO for AI processing
- Added Age/Gender functionality for Face
- Added LiDAR product
- Improved server/node communication
- Improved process/channel management
- Full library upgrades and stability / security fixes
- Performance improvements for Intel based processors
- Improved and faster installer with issue fixes for the installer

Products

SAIMOS LiDAR (initial)

SAIMOS® LiDAR channels have the ability to connect to LiDAR servers and use zone and tracking information to generate statistical input or event data for the SAIMOS® VA system. A SAIMOS® LiDAR channel can either do counting or occupancy management or intrusion detection for multiple zones within a channel.

- Connect to different LiDAR sensors and evaluate for
 - zone counts
 - occupancy or
 - intrusion
- Support for Quanergy QORTEX DTC™
- Connect Cameras to Events in Milestone XProtect® and use the XProtect® Rule Engine for further connections
- Add multiple LiDAR zones from the same LiDAR management software with one SAIMOS® LiDAR channel
- Full counting statistics and occupancy integration for all SAIMOS® VA statistics outputs as well as all Milestone Xprotect® SAIMOS® views
- Full event integration for SAIMOS® Events and Milestone XProtect® Analytic Events

SAIMOS LPR

- Improved channel configuration
- Addition of advanced processor control for better performance control
- General bug fixes for LPR Log as well as the channel binary
- Improved CPU performance

SAIMOS Edge

- Communication improvement for SAIMOS® Edge channels with Node and Server
- Improved metadata distribution to SAIMOS® VA Server
- Improved event handling for Milestone XProtect®

SAIMOS Face

- Addition of Age/Gender estimation using OpenVINO
- Improved metadata distribution and display
- Additional reporting functionality for Persons and individual detection
- Improved Face Log metadata output (confidence and age/gender estimation)
- Improved labeling and Image upload

Perimeter

- Improved performance
- Improved machine learning algorithms and cascades
- Stability and performance fixes
- OpenVINO interface preparation

Count

- Stability and performance fixes
- Improvements for Heatmapping
- OpenVINO interface preparation

SAIMOS VA Milestone XProtect® Plugin

- Branding improvements and product name adaptations
- Removed Basic Authentication
- New Log Views for Face and LPR for XProtect® Management Client
- Rename Count Tab for XProtect® Smart Client to SAIMOS
- Addition of Face Log and LPR Log to SAIMOS® Tab in the XProtect Smart Client
- Stability improvements
- Installer improvements

Service Builds (3.2.12.x)

3.2.12.1 (non critical)

- SAIMOS VA Server
 - Updated user manual

3.2.12.2 (non critical)

- SAIMOS VA Server

- FIX: Don't display non-existent age/gender info in Face Log (unknown -4-4)
- SAIMOS VA Node
 - FIX: Do not instantiate Age-/Gender estimation if Age-/Gender estimation is turned off (important for non-AVX2 builds)

3.2.12.3 (critical – Ubuntu only, known since 3.2.12.2, existent since 3.2.12)

- SAIMOS VA Server
 - FIX: Installation of Ubuntu 18.04 package fails due to wrong dependency settings for python

3.2.12.4 (critical, known since 3.2.12.3, existent since 3.2.12)

- SAIMOS VA Server
 - FIX: Core channels are not allowed to start due to internal problem in licensing resolution

3.2.12.5 - 3.2.12.7 (non critical)

- SAIMOS VA Server
 - Enhancement: Argos P231 interface configuration enhancements
- SAIMOS VA Node
 - Argos P231 API update
 - FIX: SAIMOS Edge channel crashing when receiving tracking data

3.2.12.8 (non critical)

- SAIMOS VA Server
 - Fix DB upgrade from C3 version 3.1 to 3.2 for some DB constellations
 - Update for LPR licensing engine
- SAIMOS VA Node
 - Update for LPR licensing engine