

Release Notes

V 4.2.0 (release on 2026-10-22)

Features

- Added a time-limited 30-day license

Bug fixes

- Fixed an issue where, on Linux and Mac, the license files were stored in the user directory instead of system-wide, resulting in the license being bound to a single user.
- Fixed issue with UDI-PI missing the end of life date

1 Overview of previous releases of ARCSolver

Date	Version	Changes
2026-06-23	4.1.1	Bug fixes • Fixed an issue where ARCSolver exits with a license error while a valid pressure serial number license is present • Fixed an issue where ARCSolver considers only one serial number, if more than one licenses with serial numbers are present
2026-04-30	4.1.0	Features • Link the ARCSolver license to the serial number of the measurement hardware • Use the integrated license tool to create and activate a license for another offline ARCSolver installation Improvements/Changes • Added support for Linux on ARM64 architectures • Added integration example code for Python 3 • More flexible timestamps for ultrasound diameter analysis • Updated SOUPS: • OpenSSL to 3.5.5 Bug fixes • Fixed an issue with the rpath of libcrypto.3.dylib on macOS (x86_64 only)

Date	Version	Changes
2025-09-30	4.0.0	Features • Process instantaneous arterial diameter curves recorded with ultrasound (new input modality) Improvements/Changes • Activate the software license without internet connection • Control feature usage with different licenses • New interface for encrypted signal transfer • Numerical optimization to improve inter-platform compatibility • Updated SOUPS: • Qt to 6.8.3 • OpenSSL to 3.5.0 • SoftwareKey to 5.25.1.0 (Desktop) • SoftwareKey to 5.23.4.1 (Android) Bug fixes • Do not write files into program folder • Improved description of input signals band-pass filter • Update integration manual to better cover error cases
2024-02-29	3.0.0	Features • first release of ARCSolver under MDR • ARCSolver is now stand-alone microservice Improvements • Added license control for post market surveillance • Removed deprecated input parameter "sigtype" • Separated input parameter "flag" into "calibration" & "huckDetection" for better readability Bug fixes • change to 64-bit data types to improve inter-platform compatibility • Minor bugfix in calculation of AIX based on 3rd derivative • Abort when more than 30 pulse waves are detected (to prevent memory overflow) • Abort if hr < 40 or hr > 140 during calculation to stay within defined physiological boundaries

2 Overview of previous releases of ARCSolver as non-medical device

Date	Version	Changes
2019-03-19	2.0.2	• Not for general use! • SV calculation optimization

Date	Version	Changes
2017-07-06	2.0.1	• check for poor end-diastolic signal quality ("Huck", probably due to wrong recording pressure) set error code to 1 when poor quality detected • enable / disable end-diastolic signal quality detection ("Huck") using map_flag
2015-12-09	2.0.0	• Removed debug output from developer version for production version 1.8.a
2015-12-03	1.8.a	• DEVELOPER VERSION WITH SENSITIVE DEBUG ISSUE! • Pulse wave analysis identical to 1.7.2 • Conversion to encrypted input data • Instead of the parameter signal of the type double[1000], which represents ADC values, raw data of the type double[1533 .. 2033] are now passed, which represent encrypted and possibly packed byte values.
2015-09-08	1.7.2.S.1	• Release for Schiller AG, Delphi based.
2014-04-22	1.7.2	• Bugfix: In exceptional cases, the check as to whether the Alx is too high was not carried out • Bugfix: Improving the central curve at the inflection point sometimes caused the calculation to crash • Bug fix for evaluation with mean pressure calibration
2013-12-18	1.7.0	• Improvements for central pulse wave form estimation
2012-02-22	1.6.5	• Improvement of the Alx calculation for large Alx values • Improvement of optimization from rel. 1.6.4
2012-02-10	1.6.4	• Correction for flattening curves (e.g. nitro administration) • Removal of calculation for individual curves
2012-01-25	1.6.3	• Optimization of the calculation of the stroke volume when specifying the mean pressure • Correction in the PWV calculation for children
2011-10-04	1.6.2	• Improved Vascular Age calculation
2011-07-15	1.6.1	• Bugfix: Optional calibration was not applied to the radial pulse curve. Was corrected.
2011-04-08	1.6.0	• Optional transfer and calibration of the central pulse curve with the peripheral mean pressure
2011-04-01	1.5.2	• Optimization in the PWV and Alx calculation

Date	Version	Changes
2011-02-17	1.5.1	Improved AIx calculation and plausibility check
2010-09-21	1.5.0	New Feature: Vascular Age calculation
2010-08-18	1.4.5	First release integrated into commercial 24h blood pressure monitor Mobil-O-Graph (IEM)