

MVN 2019.2.1 release notes

New versions	MVN 2019.2.1 Awinda firmware: AW-A2 v4.4.0, AW-DNG2 v4.4.0, MTw2 v4.4.0 Link firmware: BPACK v1.2.0, MTx2 v1.2.0 FWU 4.2.6
Previous versions	MVN 2019.1 Mar, 2019 (Beta version) Awinda firmware: AW-A2 v4.3.5, AW-DNG2 v4.3.5, MTw2 v4.3.5, Link firmware: BPACK v1.1.9, MTx2 v1.1.9 FWU 4.2.6
Release date	November 2019
Meaning of icons	+added, ^changed, !note, #fixed, -removed

1 Introduction

This document describes the new release MVN Analyze/Animate 2019.2.1. This release contains new features and improvements, as well as recent bug fixes.

NOTE: To take advantage of the new features and stability updates, you need to do a firmware update on your MVN Link / MVN Awinda system. Download the Firmware Updater (FWU) from the Xsens website.

2 Major improvements and new features

2.1 MVN

- + GNSS support in MVN Link systems
- + GNSS accuracy graph
- + Remote OBR: multiple Link systems can now be wirelessly triggered to do On-Body Recordings
- + User can set start/stop recording delay in Remote OBR
- + Timestamped Live data can now be used from the BP
- + Excel Exporter
- + Vehicle scenario added
- + Larger Recording button (size configurable) to use on a touch-screen (e.g. Surface Pro)
- + Viewport background color can now be customized (for Chroma "green screen")
- + XZY angles are added for T8_UpperArm joint angles
- + Angle of trunk segment against vertical now given
- + Marker list added in MVN GUI as a side panel
- + Unused segments can now be hidden from the viewport

2.2 SDK

- + Ergonomic joint angles now available in the SDK

2.3 Firmware

It is required to upgrade firmware to the latest versions to enjoy the latest features in MVN (mentioned above)

3 Bug fixes

3.1 MVN

- # BodyPack detection fixed after turning off OBR mode
- # MVN no longer streams quaternion data with and without finger data to the same Host
- # Rolled Euler data no longer sent when only the Unroll box is checked
- # Start recording button uses timecode time
- # Suit configuration no longer freezes when enabling prop with switched off suit
- # Live data from Link system now shown when using SDK
- # Link system shows up again after buffer full and recording closed
- # Closing recording after out of range for too long with MVN Awinda now happens faster
- # Network streamer no longer uses wrong segment Ids for partial systems
- # Position and heading reset correctly resets for reprocessing
- # Current calibration is maintained after cancelling 'Calibrate from Selection'
- # MVN Link system shows up again after buffer full and recording closed
- # Upper Body Calibration with N-Pose + Walk no longer shows errors with every instance regardless if it was good
- # T-Pose + walk calibration no longer gives 'poor result' with every instance regardless if it was good
- # Not Possible to calibrate and record without gloves, even if they are configured (but not found yet)
- # Hardware status pane shows that gloves are disconnected when you close Apollo
- # Load previous data now works in OBR body dimension window
- # Able to get out of full screen mode if toolbar is closed
- # Modified file Asterisk now always shown in title bar
- # Abort OBR import leaves MVN file + next import with Overwrite no longer crashes MVN
- # Scenarios that do not have HD processing are no longer marked as being HD processed
- # Contact extraction in MVNX file no longer broken with thick shoe sole
- # Duplicate point definitions no longer occur in linked-segment-model
- # Markers are exported to a .MVNX format when performing a batch export
- # C3D exporter fixed for shoulder points

4 Minor updates

4.1 MVN

- + LTC synced time can be given from MVN to BP
- + Recovery file (.mvr) is now also properly removed when recording from MVN Remote app with special characters in session name
- + Timecode can be shown as tooltip on time line
- + Processing quality added to MVNX
- + Possible to import OBR recordings of different actors in one go
- + Improved Walk calibration feedback
- + Glove LED and text replaced with glove icon
- + 'Motion Path' button is disabled during a live session
- + Extra shoe sole thickness no longer displaces toe segment vertically differently to the heel
- + Progress bars no longer update in chunks
- + Unrolled Euler data can be sent over network streamer

5 Known Issues

- Incorrect MVN GNSS initialization when initial heading points South