



January 2023

Xsens

Release notes MVN
2023.0

MVN 2023.0 release notes

New versions	MVN: 2023.0 (Jan 2023) Awinda firmware: (unchanged) AW-A2 v4.6.0, AW-DNG2(-ANT) v4.6.0, MTw2 v4.6.0 Link firmware: (unchanged) BPACKv1 v1.6.1, BPACKv2 v1.6.1, MTx2 v1.6.1 FWU: 4.3.1 (unchanged)
Previous versions	MVN: 2022.0.2 (Jun 2022) Awinda firmware: AW-A2 v4.6.0, AW-DNG2(-ANT) v4.6.0, MTw2 v4.6.0 Link firmware: BPACKv1 v1.6.1, BPACKv2 v1.6.1, MTx2 v1.6.1 FWU: 4.3.1
Release date	January 2023
Operating system	Windows 10, 64-bit
Meaning of icons	+added, ^changed, !note, #fixed, -removed

1 Introduction

This document describes the new features, improvements, and bug fixes in the new release 2023.0 for Xsens software: MVN Record, MVN Analyze Plus, MVN Analyze Pro, MVN Animate Plus and MVN Animate Pro.

2 Major improvements and new features

2.1 MVN

- + Support for Xsens Metagloves by Manus
(!) Manus SDK 2.0 update. Make sure to update to [Manus Core 2.0](#) when using MVN [2023.0](#)
- + Update Delsys SDK to 2.4.1.
- + Removed quota bar for MVN Reports

3 Bug fixes

3.1 MVN

- # Resolved MVN crashing after swapping trackers via OBR
- # Resolved BVH export formats in Japanese and Korean UI language
- # Resolved audio “pings” during calibration and the visual loading bar progress during calibration
- # Time code fix for 2 frames with the same time
- # Resolved MVN crashing after Importing OBR files with prop(s)
- # Awinda data stream rate output matches configuration

4 Minor updates

4.1 MVN

- + Changed legal entity in MVN from Xsens Technologies B.V. to Movella Technologies B.V.
- + Batch reprocessing: copying original files now also includes MVNX, MVNO, etc.
- + MVNX export will have only position and orientation of fingers set as default (no joint angles)
- + GNSS graphs support imperial units

5 Known Issues

- ! When using only 1 StretchSense glove, it will appear twice in Mocap Configuration dialog ("Left Stream ID" and "Right Stream ID" show the same glove).
- ! With streaming gloves (e.g. Stretchsense) the "hardware-status-panel" does not show "Gloves not OK" warning when no data is received. If gloves are fully configured, but data is interrupted, this warning also doesn't show.
- ! When actor/subject walks out of range of the HTC/Steam VR base stations, the mocap quality has a high chance to provide low- and unreliable quality.
- ! Using OBR (On-Body Recording) i.c.w. GNSS (GPS) may result in pelvis- and torso 360-degrees rotation(s) (after HD reprocessing).
- ! When exporting an mvns file with multiple actors of different record time exports might be wrong.