

RELEASE NOTES

Author: Product Manager
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About this release

The stable release package for the Xsens DOT Sensor is now available. Section 0 lists out improvement made with respect to previous version which was a limited release. Users of this limited release can use the new APK to upgrade their Xsens DOT Sensor from firmware v0.4.0 to v1.0.0 using the Stable Over-The-Air (OTA) server.

Table 1: Release versions

Release component	Product applicability	New version	Comments
Xsens DOT Sensor Firmware	Xsens DOT Sensor	1.0.0	STABLE release
SDK for Android	Xsens DOT Sensor	2020.0	STABLE release
APK for Android	Xsens DOT Sensor	2020.0	STABLE release

Compatibility

Table 2: Supported platforms

Software platform	Notes on support
Android OS version 8 and above	Works best with BLE 5.0 supported Smart Phone devices. Tested with Samsung Galaxy S9, Oppo Reno, Huawei Mate20 Pro, Huawei P30 and MI 9.
arm64-v8a ABI only	

Improvements

1.1 Firmware

- Improved and optimized sensor fusion performance
- Support for different measurement modes (Default data, Inertial data and Orientation data) to reduce payload demands on the BLE transmission
- Added and optimized OTA Device Firmware Upgrade
- Improved and optimized internal Flash usage and storage of necessary parameters
- New LED pattern to indicate shutting down of device on POWER OFF
- Added support for Magnetic Field Mapping

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1.2 APK improvements

- Improved UI/UX with respect to connection/reconnection of sensors
- Improved plotting and data recording functionalities
- Improved Dashboard
- Added Over-The-Air (OTA) Device Firmware Upgrade functionality with access to 'Stable' and 'Beta' server ports.
- Sensors can be powered off from the APK
- Added Magnetic Field Mapping functionality

1.3 SDK improvements

- Access to Device Firmware Upgrade using OTA functionalities
- Access to Magnetic Field Mapper functionalities
- Access to sensor data and applicable conversion functions
- Access to application sensor function and functionalities
- Ability to connect to multiple sensors

Known issues

1. LED pattern at power off while the device is in connection mode
 - Upon button press for 3s or upon receiving a APK/SDK power off command, before shutting down, the LED should blink once followed by a slow fade instead the device blinks once or twice and then shuts down
 - This happens only when the device is in connection mode