



Myriota

Myriota

AssetHawk™

Configuration Variables
Register

XAN1116-03

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Revision History

Rev	Date	Description of Change
01	Apr 2026	Initial version.
02	Apr 2026	Updated the Movement Threshold default value
03	Aug 2026	Added - Alert interval timeout - Alert interval - Send invalid locations - BLE beacon message sync - Default register values

Related Documentation

Find the latest versions of all Myriota documentation at support.myriota.com

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Introduction

The Configuration Variable Register lists all configuration variables supported by AssetHawk for a given firmware version. This register includes a description of each variable, its impact, and its limits, where applicable.

Firmware Compatibility

Not all configuration variables are present in all firmware versions. This register describes firmware v1.2.0.

Updating Configuration Variables

The AssetHawk configuration can be updated via the AssetHawk Desktop App available from the [Myriota support site](#).

Note that interval settings control when AssetHawk takes a reading, not when the message arrives. Messages are stored on the device and delivered at the next satellite pass, so shortening an interval increases how much data is captured and how much battery is used, but does not make delivery faster. Refer to the *AssetHawk User Guide* for details.

Configuration Variables List

Movement

Field	Range	Default	Description
Stationary Interval	30s - 604800s	21600	The period between regularly transmitted messages (in seconds) while the device is stationary.
Movement Interval	30s - 604800s	7200	The period between transmitted messages (in seconds) while the device is moving. This should be less than or equal to the stationary interval.
Movement Timeout	1s - 604800s	300	The amount of time (in seconds) of no movement to trigger a stationary state. When this timeout elapses, the device sends a "motion stop" message and switches the transmission period from the Movement Interval to the Stationary Interval. This value should be less than the Movement or Stationary interval.
Movement Threshold	1mG - 1000mG	300	The movement sensitivity threshold in mG (milliGravity). The lower this value, the more sensitive the device is to detect motion. The higher this value, the less sensitive the device is to detecting motion. The default value of 300 strikes a balance between reliable detection of moving vehicles and detection of vehicle vibration as movement.
Orientation Threshold	0 - 1000mG	966	The orientation threshold to detect incorrect device orientation. The default value corresponds to a 15° tilt from the expected orientation. It is recommended not to update this variable

Send Invalid Locations	NO YES	YES	Controls whether the device sends messages when a GPS fix has failed.	
			Value	Description
			YES	Messages are sent even if GPS fails. Location data will contain the last known good position, and the invalid location flag will be set.
			NO	Messages are suppressed entirely when a GPS fix fails. No message is sent until a valid GPS fix is obtained.
			Note that AssetHawk needs a recent GPS fix to reach the satellite network. If it cannot obtain a fix for more than 36 hours or it has moved since the last message, it stops reporting entirely, regardless of this setting, until GPS is available again.	

Tamper

Field	Range	Default	Description								
Tamper Mode	OFF ALERT MODE SILENT MODE	OFF	Controls how the device behaves upon detecting a tamper event. Tamper is triggered when the device is removed from the magnet in the tamper cavity on which it was previously mounted. The magnet must have been detected first. Powering the device away from a magnet does not trigger a tamper. Replacing the magnet does not clear the tamper state.								
			<table><tr><th>Value</th><th>Description</th></tr><tr><td>OFF</td><td>Tamper detection is disabled.</td></tr><tr><td>ALERT MODE</td><td>When tamper is detected, the device sends an immediate priority message and switches to the Alert Interval for elevated reporting frequency.</td></tr><tr><td>SILENT MODE</td><td>When tamper is detected, location messages are no longer sent. These messages are not stored for later delivery. The reporting interval is not changed.</td></tr></table>	Value	Description	OFF	Tamper detection is disabled.	ALERT MODE	When tamper is detected, the device sends an immediate priority message and switches to the Alert Interval for elevated reporting frequency.	SILENT MODE	When tamper is detected, location messages are no longer sent. These messages are not stored for later delivery. The reporting interval is not changed.
			Value	Description							
			OFF	Tamper detection is disabled.							
			ALERT MODE	When tamper is detected, the device sends an immediate priority message and switches to the Alert Interval for elevated reporting frequency.							
SILENT MODE	When tamper is detected, location messages are no longer sent. These messages are not stored for later delivery. The reporting interval is not changed.										
Alert Interval	30s - 604800s	7200	The period between transmitted messages (in seconds) while the device is in an active tamper state (Alert mode). This interval applies regardless of whether the device is moving or stationary.								
Tamper Timeout	30s - 604800s	86400	How long (in seconds) the tamper state remains active before it automatically clears. When the timeout elapses, the device returns to its normal reporting interval based on whether it is stationary								

			or moving. The timeout is measured from the first tamper event; removing the device again during the tamper window does not extend it.
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Bluetooth

Field	Range	Default	Description						
BLE Beacons	OFF ON	OFF	Enables or disables BLE beacon scanning and beacon data reporting.						
			<table><tr><th>Value</th><th>Description</th></tr><tr><td>OFF</td><td>BLE beacon scanning is disabled.</td></tr><tr><td>ON</td><td>Device scans for BLE beacons and includes their data in uplink messages.</td></tr></table>	Value	Description	OFF	BLE beacon scanning is disabled.	ON	Device scans for BLE beacons and includes their data in uplink messages.
			Value	Description					
			OFF	BLE beacon scanning is disabled.					
ON	Device scans for BLE beacons and includes their data in uplink messages.								
BLE Beacon Message Sync	OFF ON	ON	Controls when BLE beacon scans are triggered.						
			<table><tr><th>Value</th><th>Description</th></tr><tr><td>OFF</td><td>BLE scans run independently at the BLE Beacon Interval, regardless of Location message timing.</td></tr><tr><td>ON</td><td>BLE scans are triggered after each GPS message is sent. The BLE Beacon Interval setting is ignored.</td></tr></table>	Value	Description	OFF	BLE scans run independently at the BLE Beacon Interval, regardless of Location message timing.	ON	BLE scans are triggered after each GPS message is sent. The BLE Beacon Interval setting is ignored.
			Value	Description					
			OFF	BLE scans run independently at the BLE Beacon Interval, regardless of Location message timing.					
ON	BLE scans are triggered after each GPS message is sent. The BLE Beacon Interval setting is ignored.								
BLE Beacon Scan Time	1s - 604800s	20	The maximum time (in seconds) the device actively scans for BLE beacons during each scan window. The scan stops early if the configured beacon is found, which conserves battery.						
BLE Beacon Interval	1s - 604800s	3600	The period between BLE scans (in seconds) when BLE Beacon Message Sync is OFF.						

			When Message Sync is ON, this value is ignored.
BLE Beacon Address	N/A	00:00:00:00:00:00	The MAC address of the specific BLE beacon to scan for and report data from. It must be in standard colon-separated hex format (e.g. AA:BB:CC:DD:EE:FF).