



Vayyar Care

Software Beta Release Notes

Release V42.X

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V42.X RELEASE

General Availability release for the Vayyar Care product line.

Version Details

- Firmware Version: vayyar-care-v0.42.X
- Applicable products: Vayyar Care USB Type-A
Vayyar Care USB Type-C
- Installer App supported versions: Vayyar Care Install v1.0.3(4) onwards
- Configuration Dashboard supported versions: v5.4.0 onwards
- Upgrading to version 42.X is only supported from version 40.X or from a factory version.

Upgrade Recommendation

Upgrading to v42.X is highly recommended for all deployed units and new installations due to the added functionality, improved performance and bug fixes. Running this version will enhance Vayyar's accuracy of alerting on different events (falling, empty bed, empty room) and allow for a new type of mounting solution (high wall tilt).

Please refer to the Software Upgrade Procedure section of this document (Page 11).

Backwards Compatibility

Please refer to the Changed Functionality section of this document (Page 5).

Significant changes that may affect your integration or functionality are **highlighted in red**.

RELEASE CONTENT

Added Features and Functionality

Please refer to the Feature Functionality Description section of this document for further details (Page 7).

#	Item Description
1	<p>[Falling] “False Alarm” Mitigator improved functionality Added support for new tracker profile configuration. Using the new profile, we expect to see an improvement in the false mitigator which was introduced in version 40 and expect a false alarm rate reduction of an additional 30%.</p> <p>Note: Please refer to the Software Upgrade Procedure section and consult Vayyar support for using it.</p>
2	<p>[Empty Bed] Empty Bed Status Improved the Empty Bed algorithm Expected false alarms rate reduction of 20% for empty bed events</p>
3	<p>[Empty Room] Empty Room events Dry Contact Support</p>
4	<p>[Onboarding and Configuration] High wall tilt new Installation option New mounting option for high wall installation with 45 deg tilt. Eliminates regular wall installation limitations such as furniture blockage (Improved line of sight), power outages that result from disconnecting the power supply, and aesthetics issues. Adding flexibility in terms of powering options, and aesthetics.</p>
5	<p>[Presence] Presence Report new configuration option Added an option to disable the periodic presence report (enabled by default)</p> <p>Note: This config is: <i>enablePresencePeriodicReport</i> in the app config section.</p>
6	<p>[Onboarding and Configuration] Dry contact activation pulse width new Parameter A new parameter to set the dry contact pulse width in terms of the number of seconds the dry contact is activated while sending an event to comply with different NCSs’ transmitters</p> <p>Note: This config is: <i>dryContactActivationDuration_sec</i> in the app config section</p>

Bug Fixes and Improvements

#	Item Description
1	<p>[Stability] Improved stability and WiFi connectivity</p>
2	<p>[Cloud] Server-side certificate bug fix Added verification of HTTPS SSL certification expiry date. Expired certifications are no longer accepted.</p> <p>Note: Customers are required to verify that the certification expiry date is valid</p>
3	<p>[Factory Reset] Factory reset bug fix Fixed an issue with version 40 where the factory reset did not work when the device was not connected to WiFi.</p>

Changed Functionality

#	Item Description
1	<p>[Onboarding and Configuration] Added protection for malformed MQTT hooks' addresses MQTT hook address is now being validated with respect to protocol validation rules including a length limitation of 128 chars, authorized prefixes, and valid host names, or IP addresses. Invalid addresses will be ignored.</p> <p>General rules guidelines can be found in the below links:</p> <ul style="list-style-type: none"> • MQTT hook address compliance rules: https://www.rfc-editor.org/rfc/rfc1123#page-13 • Host names' rules: https://datatracker.ietf.org/doc/html/rfc952
2	<p>[Onboarding and Configuration] LED Policy Change</p> <p>Added a new off mode in which the LED is never active. Can be used in case LED activity causes resident discomfort</p> <p>This change influences the device config field <i>ledMode</i> which will no longer be supported from version 43 and is replaced with <i>ledPolicy</i> as described below:</p> <ul style="list-style-type: none"> • ErrorsOnly – LED will light only for error conditions and above • AllEvents – LED will light on all events • Off – LED is never active
3	<p>[Onboarding and Configuration] Backup NTP servers</p> <p>Added support for multiple NTP servers (Primary backup and Secondary backup) that will be used as a backup in case the main server (initially provisioning) is inactive.</p>
4	<p>[Empty Room] Changed empty room event data to JSON format instead of ProtoBuf format</p>
5	<p>[Device API] Device API changes – please refer to Device API documentation on the Knowledge Center.</p>

Known Issues/Limitations

#	Item Description
1	The device may reboot when trying to update the sensitivity map.
2	The device may reboot when having multiple Wifi disconnections.
3	Upgrading to version 42.X is only supported from version 40.X or from a supported factory version
4	Presence – target may be lost when static in bed. Shortening the enter/exit duration may increase the chance for target loss. Ceiling mount may present more accurate reporting of presence.
5	Empty bed and empty room events – supported for ceiling mount only (refer to feature description in Knowledge Center for details).
6	If using the secondary dry contact, the buzzer must be turned off. Per hardware limitation, secondary dry contact and buzzer cannot be used simultaneously.

FEATURE FUNCTIONALITY DESCRIPTION

FALLING & PRESENCE

“False Alarm” Mitigator Improvement

Added support for new tracker profile configuration. Using the new profile, we expect to see an improvement in the false mitigator which was introduced in version 40 and expect a false alarm rate reduction of an additional 30% in bedrooms and bathrooms.

Supported interfaces:

Webhooks, MQTT, Dry Contact

Notes:

1. This improvement influences the config field *algoProfile* in the walabot config section containing 2 options, ‘Tracking’ and ‘Falling’. To be enabled, *algoProfile* should be changed from default ‘Falling’ (1) to ‘Tracking’ (0)
2. The *fallingMitigatorEnabled* parameter must be on for this improvement to be in effect
3. Enabling this feature by customer via API or by Vayyar Partner Success Manager.
4. For further information and detailed feature description, please refer to the False Alarm Mitigator documentation (Knowledge Center).

Empty Bed Status

Improved the Empty Bed algorithm when alerting that a bed is empty

Expected false alarms rate reduction of 20%

Supported interfaces:

Webhooks, MQTT, Dry Contacts

Notes:

1. Supported for ceiling mount installation only.
2. For further information and detailed feature description, please refer to Empty Bed Status documentation (Knowledge Center)
3. For integration specifications and recommended settings, please refer to API documentation.

Empty Room status Dry Contact Support

Implemented a new option of sending the Empty room status event via dry contact interface with the below configuration options:

1. Empty room status only via dry contact line 1
2. Empty room status only via dry contact line 2

Supported interfaces:

Dry Contacts

Notes:

1. Not applicable for Occupied room status (room entry), only for Vacant room status (room exit)
2. When the Dry-Contact policy is set to “OnDoorExit” (6) the relevant door is the first sub-region defined as a door.
3. Supported for ceiling mount installation only.
4. For further information and detailed feature description, please refer to Empty Room Status documentation (Knowledge Center)
5. For integration specifications and recommended settings, please refer to API documentation.

ONBOARDING AND CONFIGURATION

High wall tilt new Installation option

New mounting option for high wall installation with downwards tilt.



Eliminates regular wall installation limitations such as furniture blockage (Improved line of sight), power outages that result from disconnecting the power supply, and aesthetics issues.

Adding flexibility in terms of powering options, and aesthetics.

Notes:

1. Configured by choosing sensorMounting param *Tilt45Deg* (4) in the Walabot config.
2. Cover arenas of up to 4m x 4m / 13.1ft X 13.1ft. Ymin is 0.3m (same as wall).
3. Mounted on the wall at height between 2.1 and 2.4 meters (height measured from center of sensor).
4. Support features that are available in the regular wall installation.
5. Requires purchasing of new mounting accessory to create tilt in 45 deg.
6. For more information, refer to High Wall Tilt Install option documentation (Knowledge Center)

RELEASE HISTORY

Release	Highlights
V40.20 Jan 2024	General Availability release for the Vayyar Care product line. Main features: <ol style="list-style-type: none"> 1. [Falling] “False Alarm” Mitigator. 2. [Remote Monitoring and Analysis] Skeleton imaging data for remote patient monitoring and post-fall analysis. 3. [Falling] Target on the Ground dry contact support. 4. [Presence] Empty Bed status. 5. [Presence] Empty/Occupied Room status. 6. [Onboarding and Configuration] Wi-Fi mass provisioning using the Install app.
V38.47 June 2023	Minor release that allows for more frequent Wi-Fi roaming
V38.42 June 2023	General Availability release for the Vayyar Care product line. Main features: <ol style="list-style-type: none"> 1. [Falling] Target on the ground / suspected fall 2. [Falling] Low Transition Detection (sensitivity mode) 3. [Connectivity] Ability to switch to a new Wi-Fi SSID and or password through the API 4. [Falling] AI-based sensitivity maps

SOFTWARE UPGRADE PROCEDURE

Vayyar Cloud

For beta customers who wish to test version 42.X, send the device ID or facility name to support@vayyarcare.com with a request to upgrade the device.

Customer Cloud

For device API beta customers who wish to test version 42.X on their own cloud, request the software package from support@vayyarcare.com to receive the version folder for testing.

False Alarm Mitigator Algo Profile

Feature can be enabled via API or via Vayyar support.

Please consult Vayyar support regarding the applicability of the feature and expected performance in your specific use cases.

Contact Us



26 Shabazi St
Yehud 5623108
Israel



vayyar.com