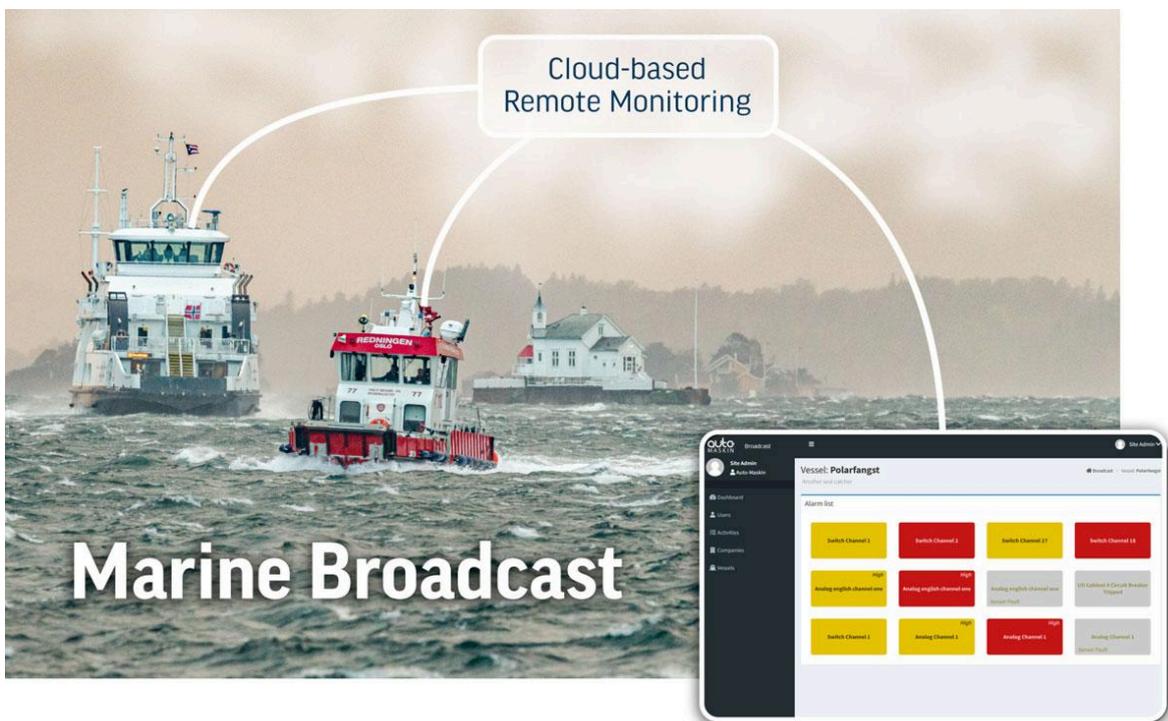


User Manual

Marine Broadcast



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MASKIN

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1 Preface

1.1 About this Manual

This manual has been published primarily for professionals and qualified personnel. The user of this material is assumed to have basic knowledge in marine systems and must be able to carry out related electrical work.



Work on the low-voltage circuit should only be carried out by qualified and experienced personnel.

Installation or work on the shore power equipment must only be carried out by electricians authorised to work with such installations.

1.2 Responsibilities



It is the sole responsibility of the installer to ensure that the installation work is carried out satisfactorily, that it is operationally in good order, that the approved material and accessories are used and that the installation meets all applicable rules and regulations.



Auto-Maskin continuously upgrades its products and reserves the right to make changes and improvements without prior notice.

All information in this manual is based upon information at the time of printing. For updated information, please contact your local distributor.



The crossed-out wheeled bin symbol indicates that the item should be disposed of separately. The item should be handed in for recycling in accordance with local environmental regulations for waste disposal.

Separating a marked item will help reduce the volume of waste sent to incinerators or landfills and minimise any potential negative impact on human health and the environment.

1.3 Revisions

User Manual revision: **Feb 2025**

2 Ordering Information

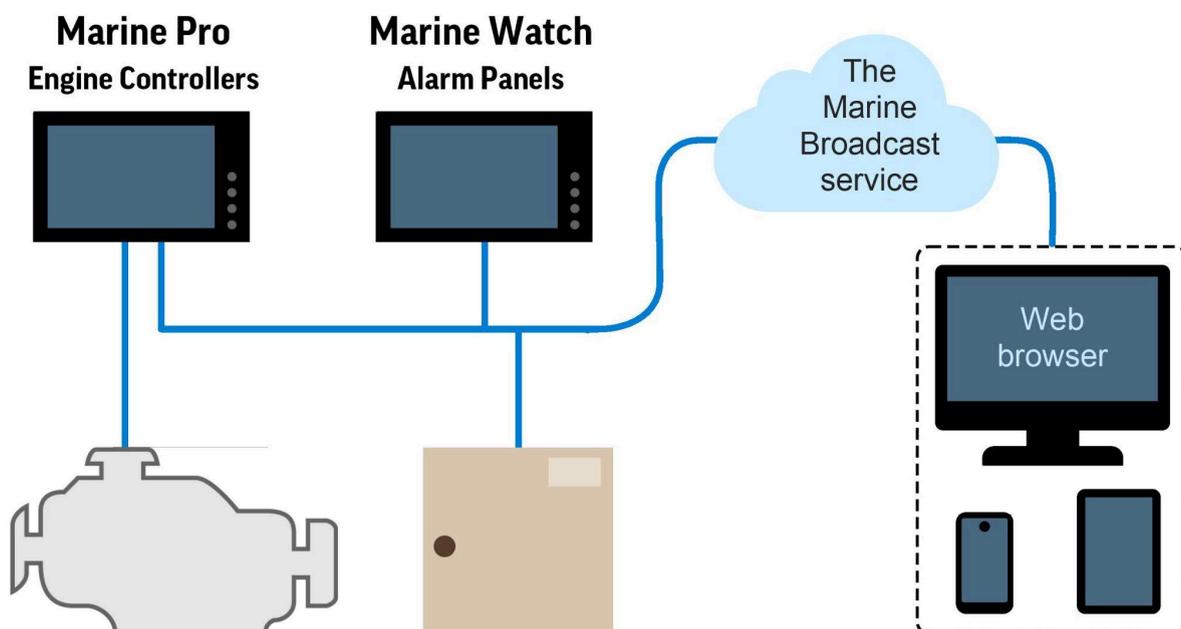
Marine Broadcast: P/N 2500622

Please visit our website, auto-maskin.com, for more information.

3 Broadcast Overview

The Marine Broadcast securely and effectively brings the vessel's alarm list and live data to the office. Trusted users can sign in using a standard web browser, such as Google Chrome, and monitor the current status of the vessel(s) they are entitled to see. In addition, the Marine Broadcast can send notifications (text messages or email) to selected users for new events.

The vessel needs Internet access, and the Marine Watch S / LT or Marine Pro system must be enabled for Broadcast operation. The image below outlines an example Marine Watch S system.



Once the Broadcast functionality is enabled, the system will automatically transmit data to the cloud server upon changes.

All data is stored on the cloud server, meaning that the office can monitor the vessel regardless of whether the vessel has Internet access or not. No data is buffered on the vessel.

3.1 Installation of the Marine Watch S Series

In order for the Marine Watch S system to transmit data to the cloud server, the Marine Watch system must be configured to do so. There are three steps which must be performed on the Marine Watch S-ONE Main Panel¹:

¹ The Marine Watch S-ONE can be configured as a Main Panel or a Subpanel.

| | | | | | | | | | | |
|-------------------------------------|---|--|-----------------------|----------------|--------------------------|-------------------------------|-----------------------------------|--|-------------------------------------|-----------|
| <p>1</p> | <p>Connect to Internet</p> <p>Connect the Eth2 Ethernet port on the Marine Watch S-ONE Alarm Panel to the Internet.</p> |  | | | | | | | | |
| <p>2</p> | <p>Configure Internet Access</p> <p>On the Marine Watch S-ONE Alarm Panel, configure the Ethernet 2 IP address and Gateway, located in the Administrative part of the menu system.</p> <p>The Ethernet 2 IP address must be on the same subnet as the Gateway.</p> <p>Consult the network administrator for the correct gateway configuration.</p> | <table border="1"> <tr> <td>Ethernet 2 IP address</td> <td>192.168.1 .151</td> </tr> <tr> <td>Gateway</td> <td>192.168.1 .1</td> </tr> </table> | Ethernet 2 IP address | 192.168.1 .151 | Gateway | 192.168.1 .1 | | | | |
| Ethernet 2 IP address | 192.168.1 .151 | | | | | | | | | |
| Gateway | 192.168.1 .1 | | | | | | | | | |
| <p>3</p> | <p>Enable Broadcast</p> <p>On the Marine Watch S-ONE Alarm Panel, enable the Broadcast functionality located in the Administrative part of the menu system.</p> <p>The Marine Watch S-ONE Alarm Panel must have software version 2.00 Patch 1 or later.</p> | <table border="1"> <tr> <td colspan="2">System Setup</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Periodically Unattended Engir</td> </tr> <tr> <td colspan="2">Engineers Alarm Timeout (minutes)</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Broadcast</td> </tr> </table> | System Setup | | <input type="checkbox"/> | Periodically Unattended Engir | Engineers Alarm Timeout (minutes) | | <input checked="" type="checkbox"/> | Broadcast |
| System Setup | | | | | | | | | | |
| <input type="checkbox"/> | Periodically Unattended Engir | | | | | | | | | |
| Engineers Alarm Timeout (minutes) | | | | | | | | | | |
| <input checked="" type="checkbox"/> | Broadcast | | | | | | | | | |

3.2 Installation of the Marine Pro 400/200 Series / Marine Watch LT Series

In order for the system to transmit data to the cloud server, the system must be configured to do so. Three steps must be performed on the DCU or LT-ONE unit.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|--|---|------------------------------|---|-----|---|-----|-------------|-----|---|-----|---|----|---|-----|----------|-----|---|-----|---|-----|---|---|----------|-----|---|-----|---|----|---|---|---------------------------------------|--|--|--|--|--|--|--|
| <p>1</p> | <p>Connect to Internet</p> <p>Make sure that the Eth Ethernet port on the unit is connected to the Internet, preferably through an Ethernet gateway.</p> |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>2</p> | <p>Configure Internet Access</p> <p>On the unit, configure the IP address and Gateway located in the Administrative part of the unit's web interface.</p> <p>Consult the network administrator for the correct gateway configuration.</p> | <table border="1"> <tr> <td colspan="5">Network Configuration</td> </tr> <tr> <td>IP Address:</td> <td>192</td> <td>.</td> <td>168</td> <td>.</td> <td>55</td> <td>.</td> <td>123</td> </tr> <tr> <td>Netmask:</td> <td>255</td> <td>.</td> <td>255</td> <td>.</td> <td>255</td> <td>.</td> <td>0</td> </tr> <tr> <td>Gateway:</td> <td>192</td> <td>.</td> <td>168</td> <td>.</td> <td>55</td> <td>.</td> <td>1</td> </tr> <tr> <td colspan="8"><input type="button" value="Submit"/></td> </tr> </table> | Network Configuration | | | | | IP Address: | 192 | . | 168 | . | 55 | . | 123 | Netmask: | 255 | . | 255 | . | 255 | . | 0 | Gateway: | 192 | . | 168 | . | 55 | . | 1 | <input type="button" value="Submit"/> | | | | | | | |
| Network Configuration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IP Address: | 192 | . | 168 | . | 55 | . | 123 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Netmask: | 255 | . | 255 | . | 255 | . | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gateway: | 192 | . | 168 | . | 55 | . | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="button" value="Submit"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

3 Enable Broadcast

On the unit, enable the **Broadcast** functionality located either in the unit's web interface or in the Administrative part of the menu system.

The unit must have software version 3.11 Patch 5 or later installed.

Broadcast

Note!
Enabling Broadcast will cause extra network traffic.

Broadcast: Yes ▾

Submit



4 Operation

To use the Broadcast solution, one needs to have an account and sign in.

Auto-Maskin creates a Company, one or several Vessels, and the Administrator account. The Administrator is an employee of the Company.

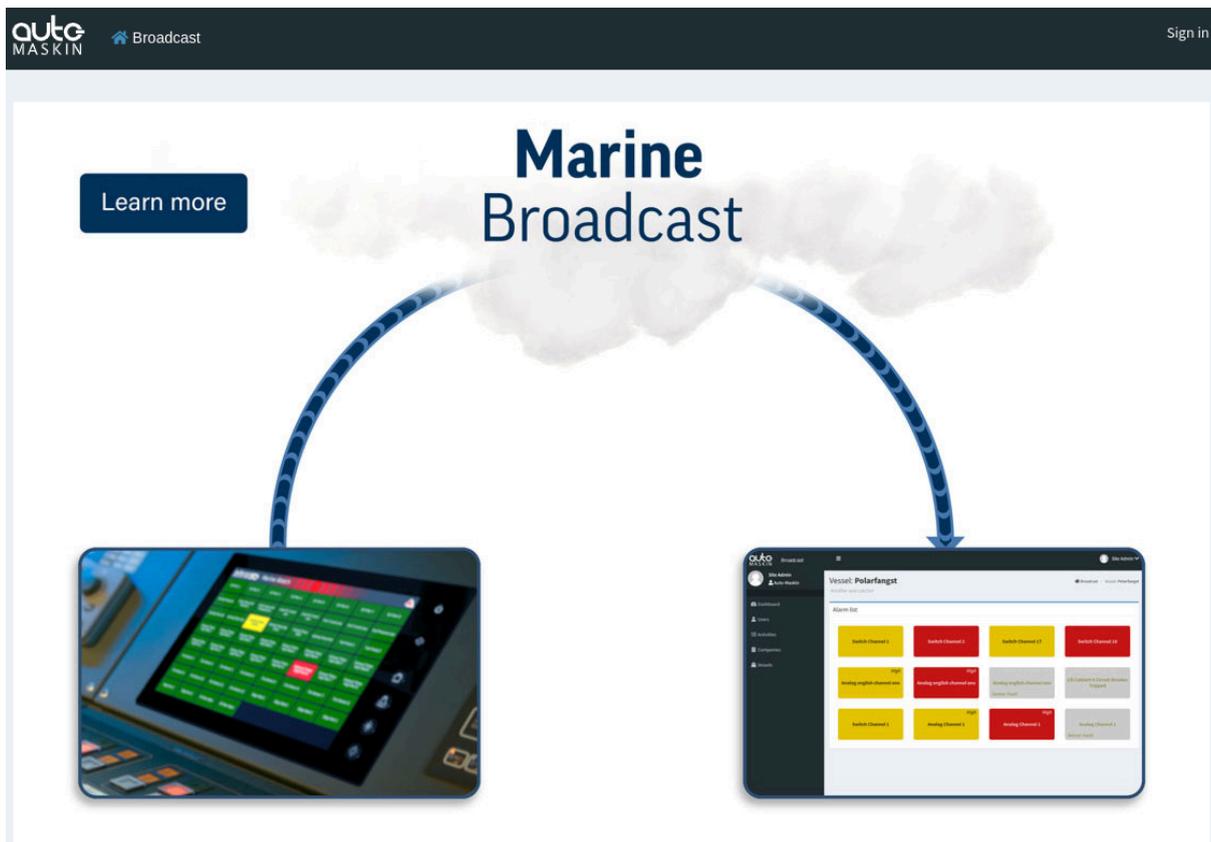
The Administrator then creates one or many User accounts for the same Company. If needed, the Administrator can also enable notifications to one or several User accounts.

All accounts in the Company can monitor the Vessels in the Company.

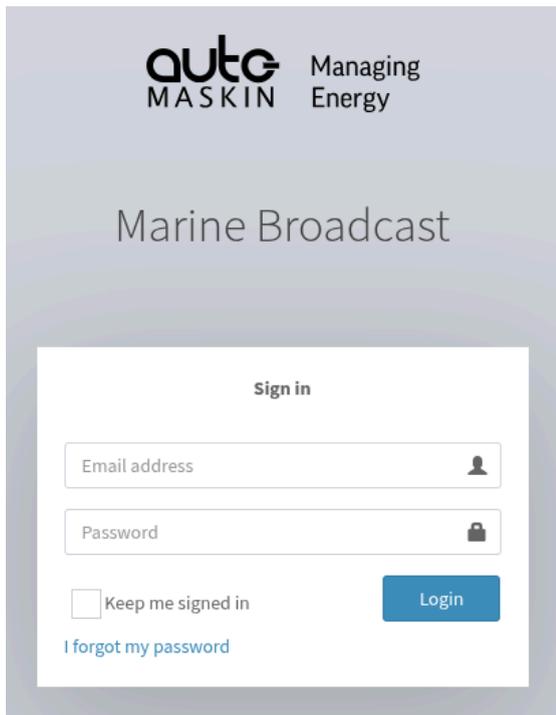
4.1 Sign In

In order to sign in to the Marine Broadcast, point your favorite browser to the following location:

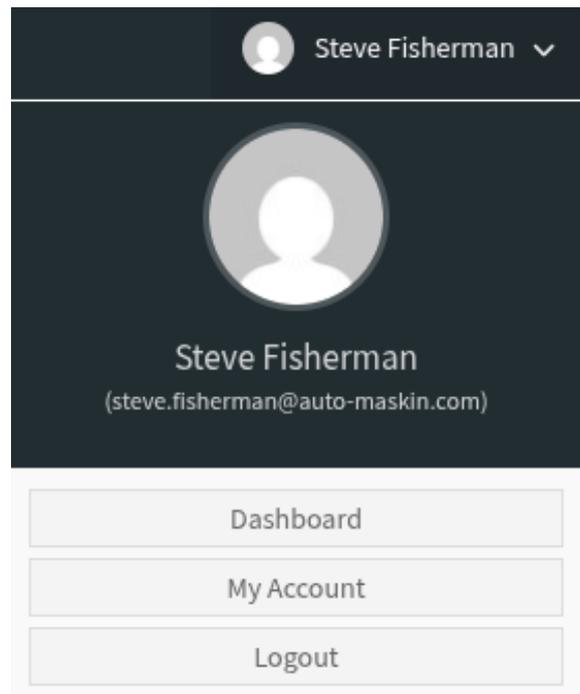
<https://broadcast.auto-maskin.com>



Select **Sign in** in the upper right corner.



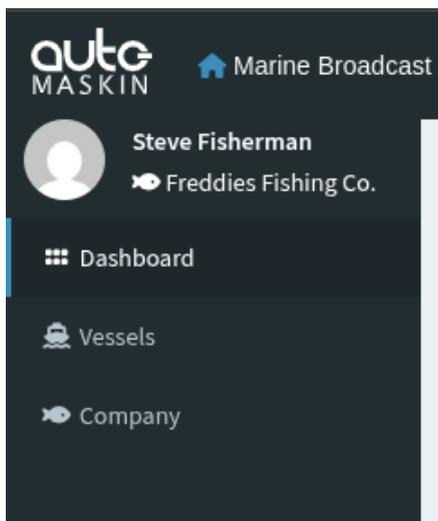
Sign in with the registered email address.



When signed in, it is possible to log out.



The actual email address can be changed under **My Account** when signed in. The email address is also used in case of password loss.



Once signed in, there is a navigation pane on the left side. This view is different depending on the actual signed-in account.

Dashboard

The Dashboard is available for both accounts and shows an overview of all company vessels.

Vessels

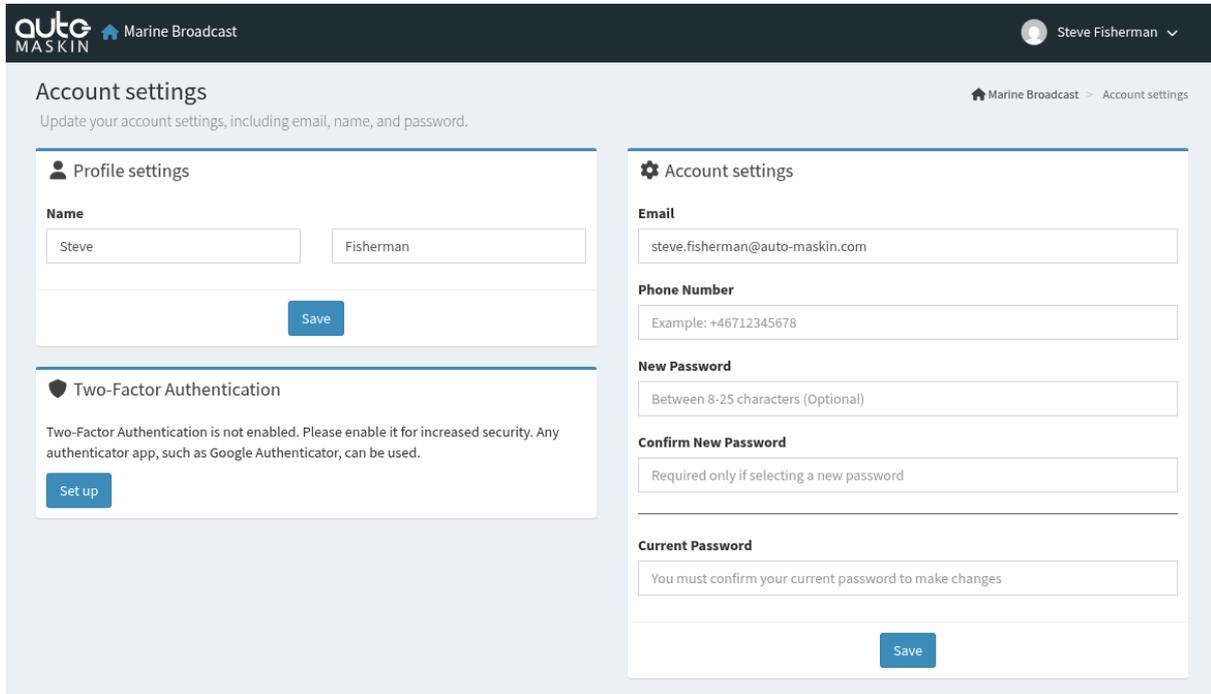
Only visible for the **Administrator** account and manages company vessels.

Company

Only visible for the **Administrator** account and manages the company and its users.

4.1.1 My Account

My Account is accessed by selecting your account in the top right corner when signed in. Under My Account, various account settings can be changed.



Profile settings

The name of the current account can be changed here.

Account settings

The email address of the current account can be changed here. Also, the password for the current account is changed here.



In order to change the email address or password, the current password must be known.

Two Factor Authentication

Two-Factor Authentication (2FA) can be set up here. Once enabled, you will be prompted for an additional verification step—typically a one-time code—every time you sign-in, in addition to your password.

To use 2FA for your account you will need a mobile device (smartphone/tablet) with an Authenticator App (e.g., Google Authenticator, Authy, Microsoft Authenticator).

Set up/Enable Two-Factor Authentication

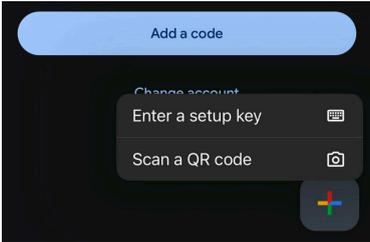
Two-Factor Authentication

Two-Factor Authentication is not enable authenticator app, such as Google Auth

Set up

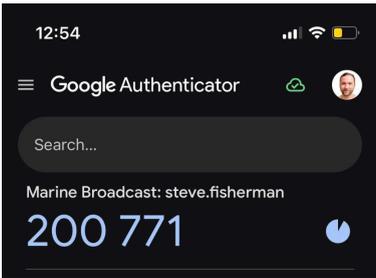
Set up Two Factor Authentication

Click the **Set Up** button under the Two-Factor Authentication section. A **QR Code** will show up on screen.



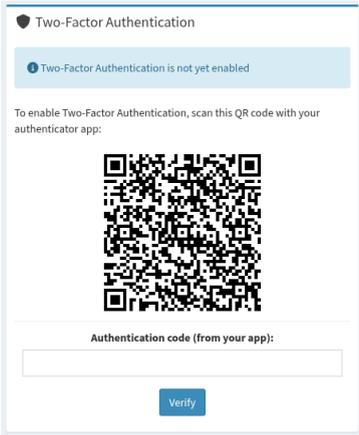
Import to Authenticator

Open an authenticator app (e.g., Google Authenticator). Then tap **Add** or **+** to add a new account, and **Scan the QR code** on screen.



Your 6-digit code

Once the account is added, the authenticator app will display a **6-digit code** that changes periodically. This is the code you will use to connect your authenticator to your account and to login to Marine Broadcast once Two-Factor Authentication is enabled.

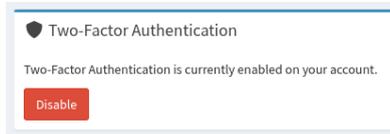


Verify and complete set up

Enter the **6-digit code** from your authenticator app in the input field below the QR Code and click **Verify** to complete the set up. A success message will indicate that Two Factor Authentication is now enabled for your account, and you will henceforth be prompted for your 6-digit code on login.

Disable Two-Factor Authentication

Once Two-Factor Authentication is enabled it is possible to disable it. Disabling Two-Factor Authentication will completely remove it from your account.



Disable Two-Factor Authentication

To disable Two-Factor Authentication for your own account, press the **Disable** button on the account settings page.

4.2 Accounts

The Marine Broadcast has two different accounts, **Administrator** and **User**.

- The **Administrator** account can add one or several **User** accounts.
- The **User** account is limited to monitoring.

The account privileges are summarised below:

| Task | Administrator | User |
|--------------------------------------|---------------|------|
| Edit Company information | x | |
| Manage (add / remove) User accounts | x | |
| Enable / Disable User | x | |
| Edit Vessel information | x | |
| Edit Notification recipients | x | |
| Monitor Vessel | x | x |
| Receive Notifications | x | x |
| View & Export historical vessel data | x | x |



An account which is disabled is blocked from signing in, but can be enabled later on. A deleted account can not be restored.

4.3 Edit Company Information

An **Administrator** can edit the company information.

Edit Company Information

Press **Company** in the navigation pane and then press **Edit Company**.

The company description can be changed here.

4.4 Manage User Accounts

An **Administrator** has permission to manage **Users** in the same **Company**.

List Company Users

Press **Company** in the navigation pane.

All company users are listed here.

Manage Existing Users

Press **Company** in the navigation pane, then press **Actions** on the selected user.

Edit user

The name and email address can be changed.

Disable Two-Factor Authentication

Disable Two-Factor Authentication for the selected user.

Change User Password

Select a new password or send an email link to the user.

Disable user

Disable login for the selected user.

Delete user

Delete the user. The action cannot be undone.

User
✕

Email

Company

First name

Last name

Phone number

Send the user a link that will allow them to choose their own password

Set the user's password as:

Password

Confirm password

Create
Cancel

Create New User

Press **Company** in the navigation pane, and then press **Create User**.

Fill in the required fields. Either set the password directly or send the user a link to allow the user to set the password.

Then press **Create**.

Note that the email address must be unique in the system.

Note that the phone number must be in the following format: +46 733 123456

4.5 Edit Vessel Information

An **Administrator** can edit vessel information.

Vessel
✕

Name

Description

A great boat to fish with!

Update
Cancel

Edit Vessel Information

Press **Vessels** in the navigation pane, and then press **Actions / Edit vessel**.

The name and description of the vessel can be changed here.

4.6 Edit Notification Recipients

An **Administrator** can edit the notification recipients.

Notifications

| Name | Email | SMS |
|--------------------------------|--------------------------|--------------------------|
| mikael.hildell@auto-maskin.com | <input type="checkbox"/> | <input type="checkbox"/> |
| owen.crabman@auto-maskin.com | <input type="checkbox"/> | <input type="checkbox"/> |

[Update](#)

[Cancel](#)

Remaining notifications this month:

Email: 50 SMS: 50

Edit Notifications

Press **Vessels** in the navigation pane, and then press **Actions / Notifications**.

Select the recipients for this vessel, then press **Update**.

Note that it is possible to see the remaining notifications this month.

Notifications are transmitted to configured users for the following events

- New events in the system
- Vessel connection loss / re-established



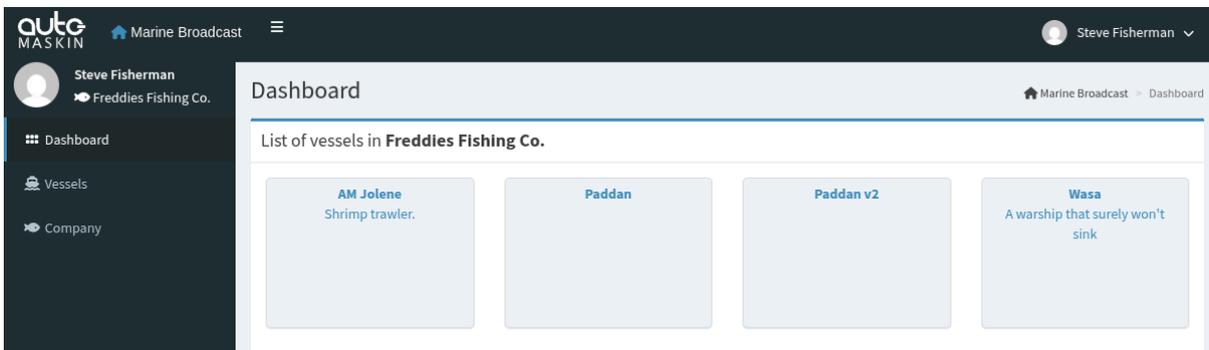
Each vessel has a maximum of 50 notifications per month. If this is exceeded, a notification is sent to configured users.



The Vessel name is used as a subject for notifications. The SMS standard only allows 11 alphanumeric characters. This means letters and numbers, but not spaces or special characters (e.g. \$,%,:). Illegal characters are stripped for SMS notifications.

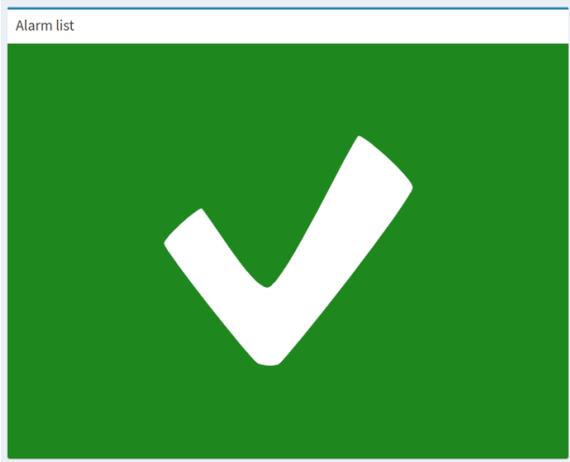
4.7 Dashboard

The **Dashboard** is showing all company vessels. Select a vessel to see the alarm list and live data by pressing the vessel name.

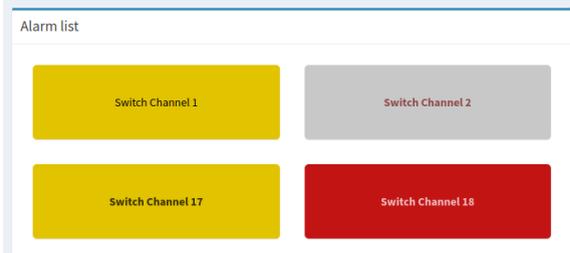


4.7.1 Alarm List

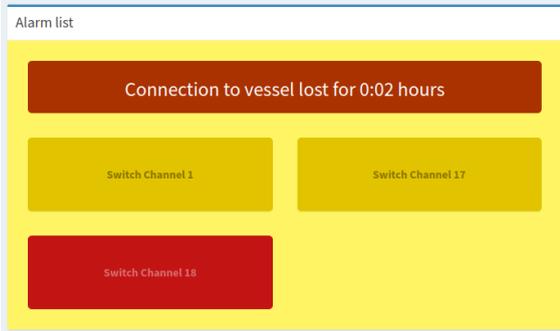
From the Dashboard, press the desired vessel to view the alarm list. The alarm list is monitored only, and no command or acknowledgement can be performed.



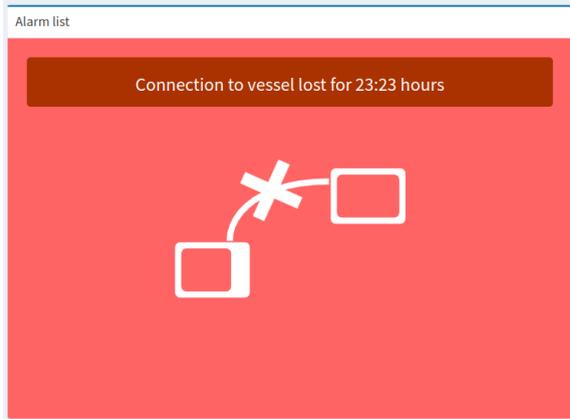
No alarms



Alarms



No connection to vessel



No connection to the vessel for more than one hour



The last known status is shown during the first hour of no connection to the vessel. After one hour without connection, the last known status will no longer be visible.

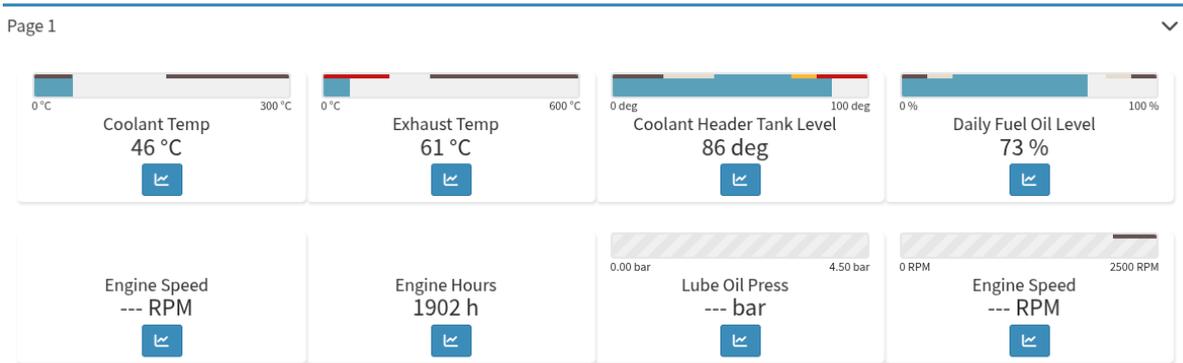
Alarm Descriptions

These are the possible reported events and how each is represented.

| | | |
|--|--|---|
| <p>Channel Name</p> <p>Active, unacknowledged warning</p> <p>Yellow background. Black, bold flashing text.</p> | <p>Channel Name</p> <p>Active, acknowledged warning</p> <p>Yellow background. Black normal text.</p> | <p>Channel Name</p> <p>Inactive, unacknowledged warning</p> <p>Gray background. Yellow, bold flashing text.</p> |
| <p>Channel Name</p> <p>Active, unacknowledged warning</p> <p>Red background. White, bold flashing text.</p> | <p>Channel Name</p> <p>Active, acknowledged warning</p> <p>Red background. White normal text.</p> | <p>Channel Name</p> <p>Inactive, unacknowledged warning</p> <p>Gray background. Red, bold flashing text.</p> |

4.7.2 Live Data

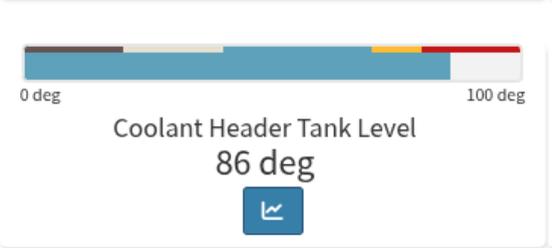
The live data section shows live data as configured on the unit on the vessel.



! The pages can be collapsed by pressing the v icon on the top right corner of each page.

4.7.3 Live Data Graphs

All users within the company have permission to view historical Live Data in the graph view.



Live Data Graphs

Press the **blue graph icon** in the bottom of the channel data box to view the channels historical data plotted in a graph over time.



Compare channel data

Compare historical channel data by selecting an additional channel in the **dropdown menu**. Historical data for the past seven days is available to be plotted as graphs.

4.7.4 Export Live Data

All users within the company can export historical channel data.

Export Data

Export historical channel data from your vessel for a date range within the past **seven days**. The data will be provided in a CSV format with detailed timestamps and channel data.

Start date: 02/18/2025
End date: 02/25/2025

If multiple channels share the same name or appear on multiple pages, an index number will be added to their names in the CSV headers when you export the data. This ensures each channel's data is uniquely identifiable.

Export Cancel

Export Live Data

You can export historical channel data for your vessel for any date range within the past **seven days**.

| | A | B | C | D |
|---|---------------------|-------------------|-------------------|-------------------|
| 1 | Time (UTC) | Exhaust Temp [°C] | Input Voltage [V] | Coolant Temp [°C] |
| 2 | 2025-02-25 11:04:00 | 61 | 23.7 | 46 |
| 3 | 2025-02-25 11:04:28 | 61 | 23.7 | 46 |
| 4 | 2025-02-25 11:04:56 | 61 | 23.7 | 46 |
| 5 | 2025-02-25 11:05:24 | 61 | 23.7 | 46 |
| 6 | 2025-02-25 11:05:51 | 61 | 23.7 | 46 |
| 7 | 2025-02-25 11:06:20 | 61 | 23.7 | 46 |
| 8 | 2025-02-25 11:06:47 | 61 | 23.7 | 46 |

Import to spreadsheet

The exported file is in **CSV** format—designed for easy import into spreadsheet software—and includes precise timestamps along with the corresponding channel data.



If multiple channels share the same name or appear on more than one page, an index number is automatically appended to each channel's name in the CSV headers.

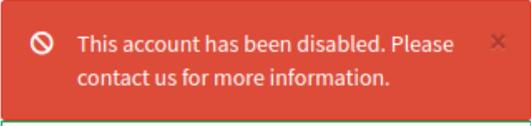
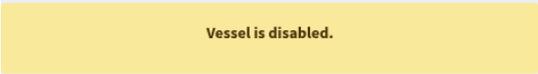
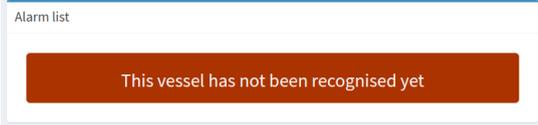
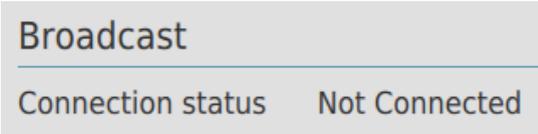
5 Technical Information

| Type | Description |
|---------------------------------------|--|
| Office to Cloud | |
| Communication | HTTPS, port 443 |
| Encryption | TLS certificate |
| User credentials | Setup by Administrator |
| Vessel to Cloud | |
| Time synchronisation ² | NTP, port 123, opened from vessel |
| Communication | Secure MQTT, port 8883, opened from vessel |
| Encryption | TLS certificate |
| User credentials | Yes |
| Communication heartbeat | MQTT keep-alive, 1 minute |
| Alarm List, payload per event | Approximately 100 bytes |
| Alarm List, payload transmission rate | On change |
| Live Data, payload per sensor | Approximately 150 bytes ³ |
| Live Data, payload transmission rate | 30 seconds |

² Only for DCU and LT-ONE

³ Depending on the number of event thresholds

6 Troubleshooting

| Observation | Possible solution |
|--|---|
| Cannot sign in. Forgot password? | Press the Forgot password link when logging in, and an email with recovery instructions is sent. Or, contact your Administrator for help. |
| Cannot sign in. Lost Two-Factor Authentication code. | Contact your Administration to disable Two-Factor Authentication. |
| Cannot sign in.  | The account is disabled for any reason. Contact your Administrator for help. |
| The vessel is not showing any data.  | Access to the vessel is disabled. Contact Auto-Maskin for help. |
| The vessel is not showing any data.  | The vessel can not communicate with the cloud server. See “...not connecting to the Broadcast server” troubleshooting. |
| Can not enable Broadcast on Marine Watch S-ONE Alarm Panel. | Check that the Marine Watch S-ONE Alarm Panel software version is 2.00 Patch 1 or greater. |
| Can not enable Broadcast on the DCU or LT-ONE panel. | Check that the software version of the panel is 3.11 Patch 4 or greater. Install the broadcast package if instructed to do so. |
| S-ONE not connecting to the Broadcast server.  | Check the following in the S-ONE. <ul style="list-style-type: none"> ● Internet connection ● IP Address on Ethernet 2 port ● Gateway in S-ONE Make sure TCP port 8883 is opened in any firewall. |

| Observation | Possible solution |
|---|---|
| <p>DCU / LT-ONE not connecting to the Broadcast server.</p>  | <p>Check the following in the DCU / LT-ONE.</p> <ul style="list-style-type: none"> ● Internet connection ● IP Address ● Gateway <p>Make sure TCP ports 123 and 8883 are opened in any firewall.</p> |
| <p>No notifications are received.</p> | <p>Check the following</p> <ul style="list-style-type: none"> ● Correct phone number / email address ● Correct phone number syntax <ul style="list-style-type: none"> ○ Example: +46 733 123456 ● Remaining notifications per vessel per month |