

Shore Viewer 22.0 User Guide



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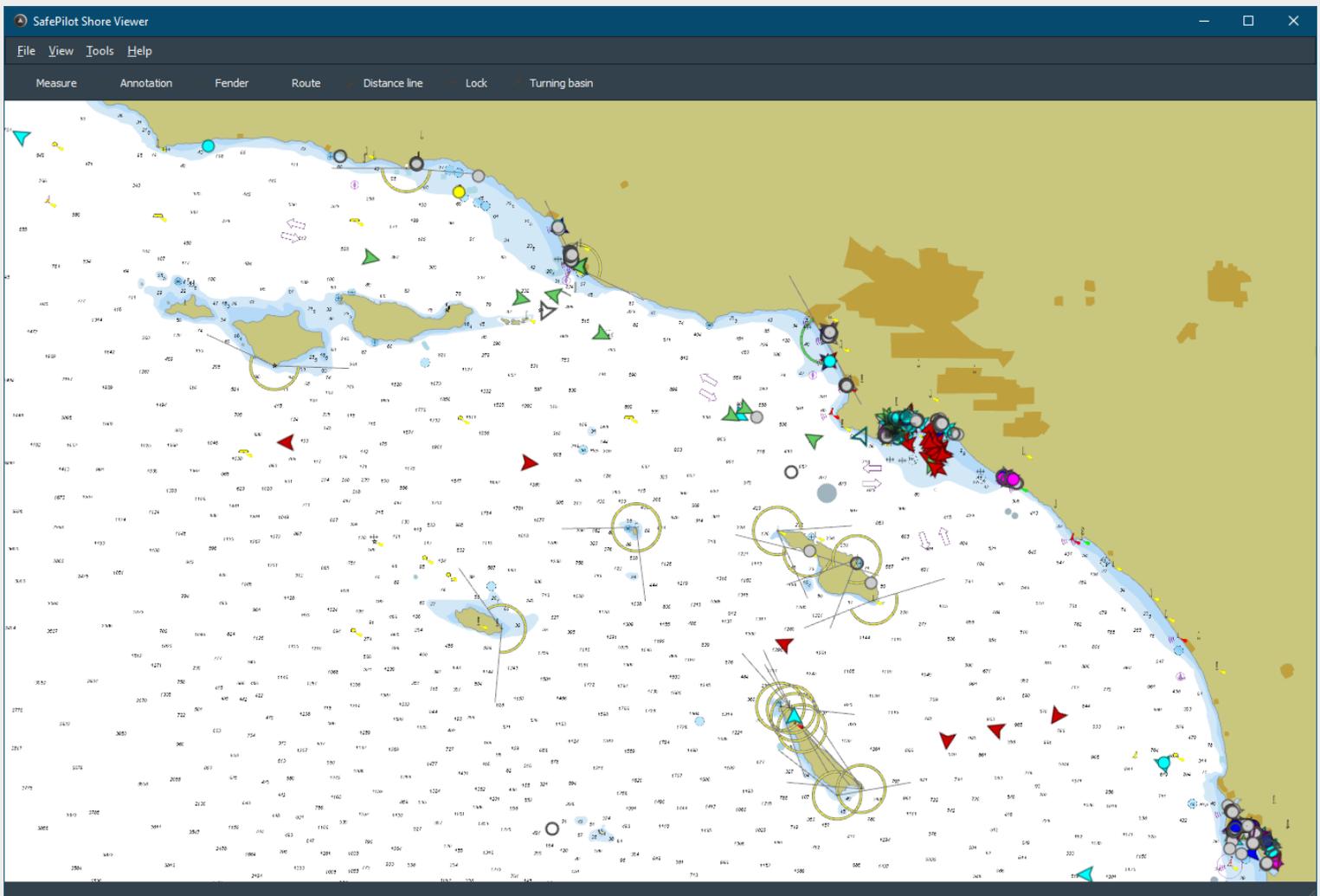
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1 Introduction to SafePilot Shore Viewer

SafePilot Shore Viewer offers an overview of planned as well as ongoing port and piloting operations and integrates relevant data sources. It allows you to work smarter with functions starting from real-time traffic overview based on AIS to remote monitoring and interactions with the pilots on duty. Data is received from the SafePilot Cloud and can be: AIS data, environmental data and data from SafePilot and SafeTug apps.

SafePilot Shore Viewer are able to distribute charts, annotations, fender lines and more to both pilots using SafePilot and tug captains using SafeTug. They are all connected through the SafePilot Cloud.



2 Getting started

2.1 Licensing

You need to register your SafePilot Shore Viewer software with an e-mail address which will serve as your license ID.

This is done in the *Settings* (*Tools* → *Settings*) and requires an internet connection to complete. Fill in the email address (fig. 2.1) attached to your license and apply the change. It will then check for an available license and download it.

Note 2.1-1

Every time you register a license on a new pc, you will need to confirm the registration by clicking in the email sent to the email address by Trelleborg.

Note 2.1-2

If you are in charge of multiple PCs, each PC must be registered with a unique license to work properly.

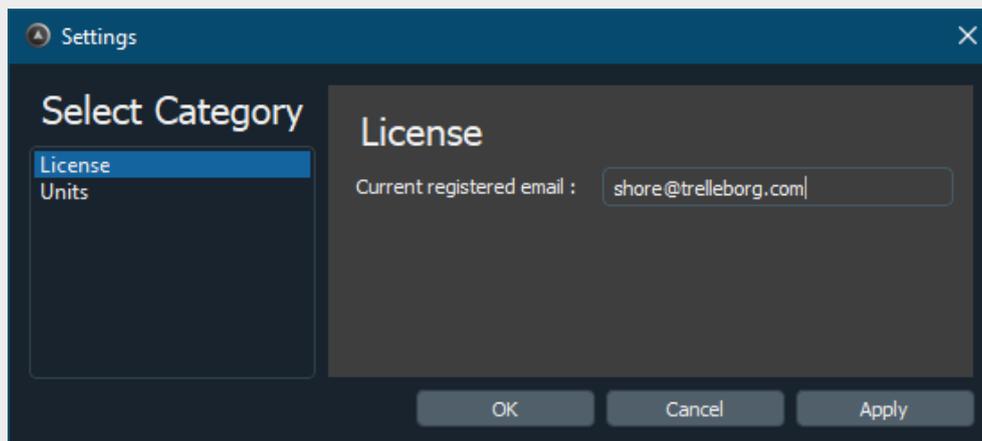


Figure 2.1: Add SafePilot Shore Viewer license. Replace the email address with your own license.

3 Charts

Charts is an important part of SafePilot Shore Viewer. Chart management is found in *Tools*→*Charts*. Note the menu to the left of the dialog.

3.1 Installing charts

3.1.1 NOAA CHARTS

The *NOAA* option provides management functionalities for NOAA charts. A set of charts can be selected from the NOAA catalog by and added to your installation (see fig. 3.1 on the next page). Remember to *Save* the changes to apply them.

Note 3.1-1

Changes to your NOAA chart configuration will affect all users connected to SafePilot Cloud.

3.1.2 CUSTOM CHARTS

The *User charts* menu enables you to install local charts.

Note 3.1-2

These charts will not be distributed to other users.

3.2 Installed charts

This menu shows the list of charts currently installed in SafePilot Shore Viewer. Double click on any chart to jump directly to it.

3.3 Zones of confidence

Zones of confidence can be viewed in *View* →*Zones Of Confidence*. This will highlight areas in the map relative to the confidence level. A detailed list of confidence levels may be inspected in appendix A on page 9.

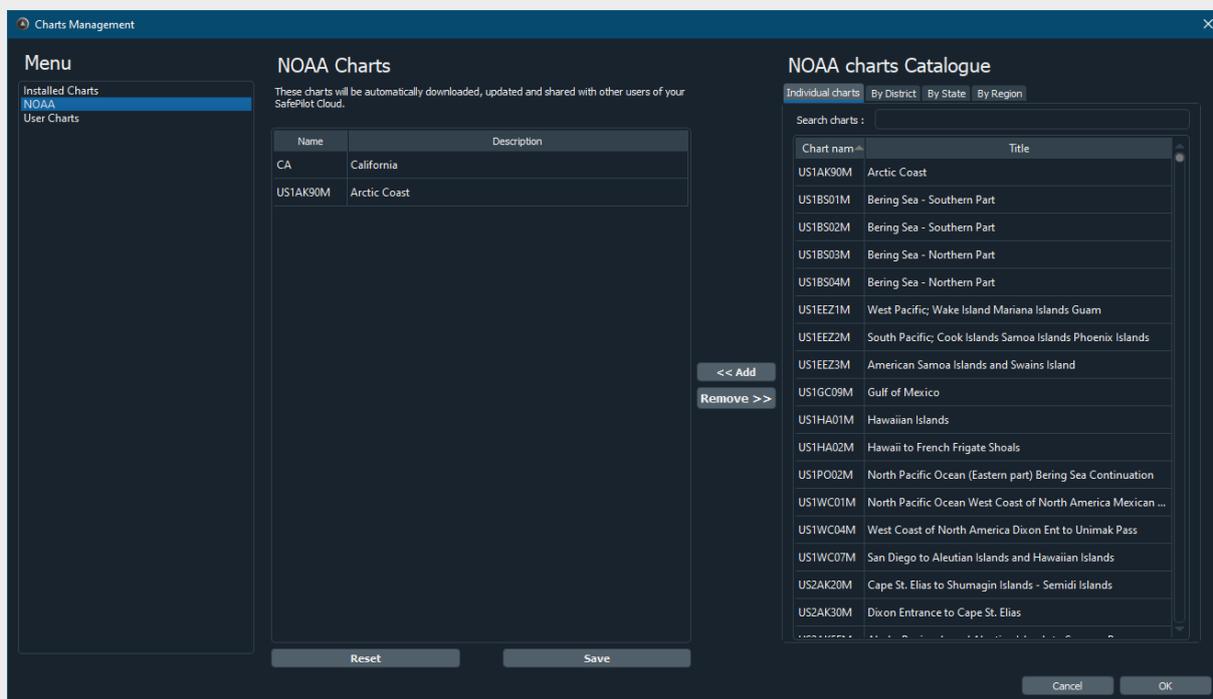


Figure 3.1: Installed and available NOAA charts.

4 Basic controls

4.1 Traffic overview

The primary part of the view is the nautical chart. It shows AIS vessels but also more advanced elements like:

- Pilots on duty with SafePilot.
- Tug captains on duty with SafeTug.
- Environmental data like weather information.

4.2 Vessels list and notes

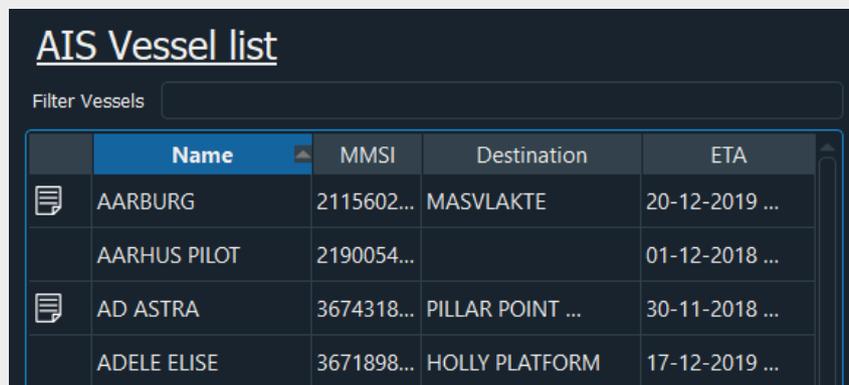
The vessel list located in *Tools* → *Vessels list* lists all known vessels and includes different search and filtering options to locate specific vessels. Double click on a vessel to locate it in the chart.

4.2.1 VESSEL NOTES

You may add notes to any vessel by double clicking in the left most field at the vessel to enter the *Note manager*. When a new note is added to a vessel, the field will illustrate the existence with a note icon. See fig. 4.1.

Note 4.2-1

All notes are automatically shared with other SafePilot and SafeTug users within your organization.



	Name	MMSI	Destination	ETA
📄	AARBURG	2115602...	MASVLAKTE	20-12-2019 ...
	AARHUS PILOT	2190054...		01-12-2018 ...
📄	AD ASTRA	3674318...	PILLAR POINT ...	30-11-2018 ...
	ADELE ELISE	3671898...	HOLLY PLATFORM	17-12-2019 ...

Figure 4.1: The *Vessel list* with note icons next to some vessels.

4.3 Quick jumps

The *Quick jump* tool allows you to name views for later visits. This enables you to jump between frequently observed areas. The quick jump menu is found in: *View* → *Quick Jumps*.

4.4 Replayer

The *Replayer* tool allows you to replay recordings from operations executed from either SafePilot or SafeTug. See fig. 4.2.

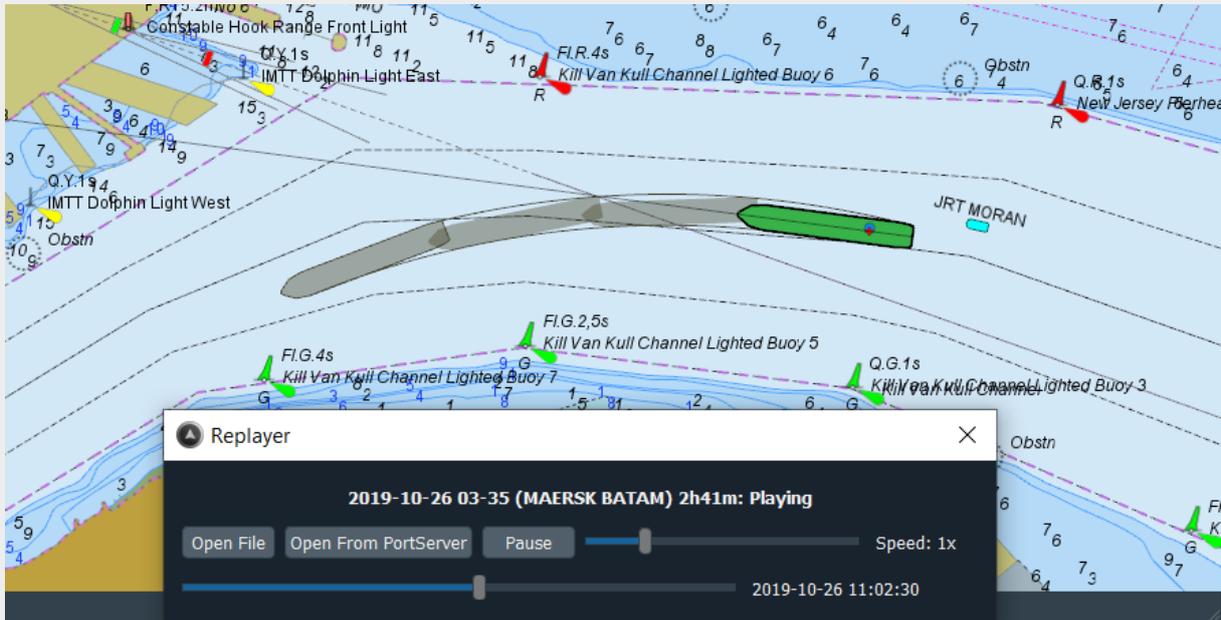


Figure 4.2: The *Replayer* in use.

It is located in *Tools* → *Replayer*. You can replay recordings directly from a file or from the SafePilot Cloud. To start a replay of a recording from the SafePilot Cloud double click on the desired recording. The replayer is automatically stopped when closing the dialog and SafePilot Shore Viewer returns to live data.

WARNING 4.4-2

The current state of all vessels are lost when starting a replay. This means that you won't see any vessels when you later on stops the recording. They will appear again when new data is received from the SafePilot Cloud

5 Chart objects

The tool panel includes tools to add, manipulate and remove objects like: fender lines, routes or annotations. When a tool has been selected you can add it to the chart by right clicking at the desired location. Some tools like the *annotation tool* may include additional options which will be displayed when selected. Advanced configurations of objects can be accessed by selecting the corresponding tool and then right click on the object. This is also the way to delete them.

The available tools are:

1. *Annotation tool.*
2. *Distance line tool.*
3. *Fender line tool.*
4. *Lock tool.*
5. *Route tool.*
6. *Turning basin tool.*

5.1 Deployment

Chart objects can be shared with all other users in your organization connected to the SafePilot Cloud. This is done in the *Tools → Deploy...* dialog. The dialog will show the changes and options to deploy all changes or selected only.

Appendices

A Categories of zones of confidence

SafePilot Shore Viewer implements the same categorization standard as defined by S-57. The different areas are displayed as semi-transparent colored areas matching the standard of S-57. Table A.1 summarizes the area definitions.

ZOC	Position accuracy	Depth accuracy	Seafloor coverage	Typical survey characteristics
A1	±5m +5% depth	±0.5m +1% depth	Full area search undertaken. Significant seafloor features detected and depths measured.	Controlled, systematic survey high position and depth accuracy achieved using DGPS or a minimum three high quality lines of position (LOP) and a multibeam, channel or mechanical sweep system.
A2	±20m	±1.0m +2% depth	Full area search undertaken. Significant seafloor features detected and depths measured.	Controlled, systematic survey achieving position and depth accuracy less than ZOC A1 and using a modern survey echosounder and a sonar or mechanical sweep system.
B	±50m	±1.0m +2% depth	Full seafloor coverage not achieved; uncharted features, hazardous to surface navigation are not expected but may exist.	Controlled, systematic survey achieving similar depth but lesser position accuracies than ZOCA2, using a modern survey echosounder, but no sonar or mechanical sweep system.
C	±500m	±2.0m +5% depth	Full area search not achieved, depth anomalies may be expected.	Low accuracy survey or data collected on an opportunity basis such as soundings on passage.
D	Worse than ZOC C	Worse than ZOC C	Full area search not achieved, large depth anomalies may be expected.	Poor quality data or data that cannot be quality assessed due to lack of information.
U	Unassessed - The quality of the bathymetric data has yet to be assessed.			

Table A.1: A summary of the area definitions for the zones of confidence definition by S-57.



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