

Removed search
through all layers

Reset Map

Measure

Show Grid

Layers ▼

ExactAIS:LV1 ▼

Hide

Search Saved Searches

Add Filter ▼

Search: 1, 2, 3, 4

Search

Find Name, MMSI, IMO, Call Sign

Filters: Country Canada

Edit

United States

Vessel Type fjkda

Edit

Save Current Search

MMSI	Name	
> 316043000	SALARIUM	Locate
> 316043000	MARY GERMAINE	Locate
> 316043000	UNAVAILABLE	Locate
> 316043000	RONJA CARRIER	Locate
> 316043000	CCGC W.	Locate
> 316043000	SAGUENAY	Locate
> 316043000	SALARIUM	Locate
> 316043000	SA	
> 316043000	SA	
> 316043000	SA	
> 316043000	SA	

Search - AND/OR

Use AND for different properties

- Ex: Country == "Canada" AND rot>100

Use OR if same property

- Ex: MMSI == 1 OR MMSI == 2

Ranges can be a combination and handled in the dialogue

- Ex: (Speed >= 1 AND Speed <= 12) OR (Speed >= 60 AND Speed <= 70)

Don't need to change the toolbar.
Just playing around with their location.

Don't show
if no filters

- ✓ ExactAIS:LV1
- ✓ exactAIS:HT30
- OSMBaseMap
- WMSBaseMap
- Manage Layers

Add Filter - Expanded View

Add Filter ▼

Position

Country

Destination

Vessel Type

Status

Cargo

Ship Size

Speed

Course

Rate of turn

Heading

Draught

ETA

Filter Types

- Multiselect Search
- Min/Max Slider
- Date Range
- Special: Lasso Tool for Position?

Search Panel - Saved Searches

ExactAIS:LV1▼ [Hide](#) ◀

Search

Saved Searches

☒ Canadian Ships [Edit](#)

☐ Taylor Ships [Edit](#)

☒ US Ships (Fast) [Edit](#)

Shiplist

Complex Searches

If want more complex searches joined by an OR, can just save multiple AND filters and select them under the saved searches

Ex: (Country == Canada AND Speed BETWEEN 0 AND 12) OR (Country == US AND Speed BETWEEN 100 AND 200)

For this case,

- 1) Create two different saved searches with country and speed, and
- 2) Selected both under saved searches

Might want to even group searches in the future?

Preferences - Other Recommendations

If want AND at a higher level use:

Persistent Filters

- User can have persistent filters (e.g. if they ALWAYS want to see only Canadian ships, this is a user preference)
- Use AND operator between user preferences and layer filters

Modal Dialogs - Types of Filters

Country

Search:

☒ Canada

☐ Cambodia

Currently selected countries:
Canada
United States

Save

Cancel

Speed

0kn

1000kn

Advanced Options

Save

Cancel

ETA

From:

To:

Advanced Options

Save

Cancel

Multiselect search

Use this format for:

- Country
- Vessel Type
- Destination
- Status
- Cargo

This design assumes that you can query for all distinct values of countries for all the ships.

If needs to allow user to use own string, use jquery-like autocomplete.

Min/Max Slider

Use this format for:

- Ship Size (length and width)
- Speed
- Course
- Rate of Turn
- Heading
- Draught

For each filter, need to know

- Units
- Default min/max values

Advanced Options

- User might want to filter multiple ranges (e.g. 1-12, 60-70)

Date Range

Use this format for:

- ETA
- Latest Position
Timestamp (if needed)
- Latest Report
Timestamp (if needed)

Advanced Options

- Filter multiple ranges (e.g May 12-13 OR June 14-15)

Other Design Notes

Search Panel - Collapsable?

Q: Should the search/ filter panel be collapsable?

- Advantage: more horizontal real estate
- Disadvantage: number of visible ships change

Depends on:

- how much they will use the search, filter, and ship list functionality vs. the map

Decision:

- refresh after expanding or collapsing panel (already does this when resizing browser)

Other Recommendations:

- ability to resize the search panel would be good, but the ship list and number of visible ships would need to refresh