exactEarth ShipView

exactEarth Viewer Demo

Reset Map | Measure | Show Grid | Layers ▾

Removed search through all layers

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

✓ ExactAIS:LV1
✓ exactAIS:HT30
● OSMBaseMap
  WMSBaseMap
Manage 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   } Don't show if no filters

           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	
> 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)

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
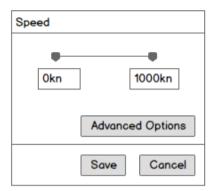
Modal Dialogs - Types of Filters

Country

Search: `Ca`

- ☑ 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

<u>Search Panel - Collapsable?</u>
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