

Maritime Intelligence Risk Suite

User Guide

Version 2.0



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Introduction - Welcome

About the Maritime Intelligence Risk Suite (MIRS)

The Maritime Intelligence Risk Suite powered by Sea-web™ and AISLive integrates intelligence from across IHS Markit with content from :

- Maritime & Trade
- Economics & Country Risk
- Aerospace, Defence & Security

The suite provides the tools for your business to evaluate a client/ships potential risk, identify, monitor and forecast business and security risks based on accurate, reliable industry trusted intelligence.

Conducting essential daily sanctions screening of customers and their assets can be both complex, timely and add pressure on compliance team's and operations. MIRS provides an automated and accurate compliance screening view that checks against a ships current and historical sanctions status.

- Simply search and check a vessel(s) status, Quickly review sanctions compliance for a vessels ownership and movement history
- Flag non-compliant vessels to help you make business critical decisions
- Understand a ships trading pattern and voyage risk at ports for last 12 months
- Print ship reports to complete your audit trail

This user guide provides an overview of the products capabilities and how to use the key features and tools.

Introduction - MIRS Data

Accurate, reliable & timely maritime intelligence

- Integrated intelligence powered by the world's largest maritime databases
- Comprehensive information verified by our in-house team of data analysts

Search the world's largest maritime databases

- Compliance screening for ships, companies and related companies Dark activity suspected
- 200,000+ ships with 7 levels of ownership
- Voyage histories & trading area analysis Port, berth & country callings with port risk
- STS transfers (cargo, bunkering & fishing) PSC inspections & detentions
- Security, port and country risk information Best-In-class ship characteristic and ownership Information

Be notified on critical changes to monitor assets & identify risk

piracy and pollution events to keep you one step

- Select from a range of data fields and filters to be alerted on
- Manage and tailor your alerts and delivery schedules to suit your needs

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IHS Markit

Introduction - Ship & Ownership Intelligence

Eliminate exposure to regulatory compliance & operational risks

- Evaluate potential risk of a ship/fleet & quickly screen for any potential compliance issues
- Understand who owns, operates and manages a ship/fleet
- View technical specifications, class, flag, commercial history, Port State Control, events and port risk ratings

Ship Intelligence

Search 200,000+ ships of 100GT and above

- Sanctions compliance screening, including voyage & ownership screening
- Country calling history
- Sanctioned country calls & OFAC vessels
- Trading areas & movements
- Registration & classification
- P&I Club (current and historical)
- Ship types & Photographs
- Tonnages, dimensions & surveys
- Cargo & capacities
- Construction & machinery
- Port State Control, detentions & inspections
- Fleet casualty & events history

Ownership Intelligence

Search 240,000+ company records

- Company compliance screening
- Ownership & commercial history
- Seven levels of group and operational ownership
- · Group owner / Registered owner
- Operator
- Ship / Commercial manager
- DOC holder
- Technical manager
- Country of domicile, control & Registration
- Addresses and contact details



Introduction - Vessel/Fleet Monitoring & Analysis

Live & historical voyage intelligence from IHS Markit's AIS network

- Access live & historic verified AIS terrestrial and satellite positional data for tracking global fleet movements and voyage analysis
- Understand and analyse a ships trading patterns
- Identify sanctioned country calls, ships in JWC War zones and ECA zones

Vessel Monitoring

- View a ship's current or last reported position
- Current speed, status, destination, laden/unladen
- 145,000+ ships covered daily
- Visualise ships expected, currently in and recently departed ports in your domain
- Extensive filtering options of global movements on an interactive layered map tool
- Set up custom alerts to keep informed of vessel activity from ETA or destination changes, flag and ownership changes or zone arrivals

Ship/Fleet Analysis

- View fleet positions of a owner/ operator to identify their trading history and trading patterns
- Understand global fleet movements for analysis and forecasting
- Analyse daily operational activities
- Historical animated track
- Voyage Details port callings list
- Voyage Details ship track performance graph

Introduction - Casualty & Events

Review & search current and past ship events with notification services

- The Maritime Intelligence Risk Suite provides you with the tools to understand, monitor and identify changes in global maritime risk events
- Search & visualise maritime risk events

Casualty & Event Search

- Fully searchable risk events database
- Serious & non-serious casualties
- Piracy & marine pollution events
- View ship, event, voyage and
- location information of the event
- Export results, run reports and link to ship & owners records
- Analysis chart view of search results

Casualty, Events & Risk Mapping

- Interactive map with risk layers to visualise risk events (max last 3 years)
- Apply filters and layers including: JWC war zone, traffic density, weather & 5-day forecast, country risk pointers, ECA zones
- Filter event by type, age, ship type, whether pollution occurred
- Filter ships by risk rating of last port, destination port
- View sanctioned country calls and ships in high risk location
- View ports by risk rating severity

Casualty & Event Notifications

 Receive timeline and email notifications reporting details of global casualty, piracy and pollution events

Introduction - Information Sources

Access the industry's leading and most comprehensive maritime information

- IHS Markit data is researched and gathered from a variety of sources by a dedicated team of inhouse data analysts
- IHS Markit is the sole originating source for assigning IMO ship and company numbers.

Compliance Workflow

Search & screen ships & companies for compliance

Ship Search Screen

DISPLAY FIELDS Set display fields to include "Compliance Screening" field (Default setting)

SEARCH

Upload single or multiple ships to check by IMO no. or Ship name or use search options



FILTER RESULTS Filter by "Compliance Screening" status OK/warning/severe Option to "Select Filtered only" Option to "Remove unselected" ships to refine list to ships of interest

VIEW DETAILS Click an individual ship details to investigate further and automatically add to audit history

WATCH Add to a Watchlist to track and receive notifications



REVIEW

Ship Compliance screening status Insurance & Security screening information Voyage Screening - Dark activity, voyage risk & sanctioned country calls, STS Transfers Ownership Screening – company sanctions compliance Ship inspections, detentions, casualty & events history Ownership, registration & commercial history Ship construction & technical specifications

PRINT / AUDIT HISTORY

Print report of information displayed for your audit trail Automatically added to the Audit History by viewing the compliance details

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mirs.maritime.ihs.com

- 1. Go to mirs.ihs.com & click log in
- 2. Enter your Username (account email address) and Password
- You are now logged in and ready to access



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My Home

Home screen to access key areas



Click on the area you wish to navigate to or alternatively use the main site MENU

- 1. Main site menu
- 2. Search ships database
- 3. Search owners database
- 4 Search and track ship positions on interactive map
- 5. Search port, country, berth and zone callings and STS transfers
- 6. Search casualty & events database
- 7 View your Timeline notifications and access Notifications Management & WatchLIsts

Mega Menu Navigation

Links to access all areas of the solution

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The mega menu provides quick links to all active search, results and map areas

Please Note:

Additional subscriptions are required for Ship Performance, Fixtures & Credit Reports report modules and Fleet Capacity Forecast.



Ships Information

Search & screen for compliance using the most comprehensive ships data



Ship Search

Main search area, recent & saved searches

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- Expand to view your Recently Viewed Ships and any previously Saved Searches. (The Save Search button is displayed top of the search results list)
- 2. Main search area
- 3. Upload multiple lists of ships by ship name
- 4. Upload mulitple lists of ships by IMO No.
- 5. Expand to select advanced search filters
- 6. Expand to set Display Fields Select up to 12 fields to return in your search results
- 7 Search & Clear buttons

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Expand to set Display Fields - Select up to 12 fields to return in your search results

- Available Fields box with search option
- Use the ← → arrows to move Available to Selected
- 3 Currently Selected fields
- 4. Save Fields option. This will be added to the "My Saved Fields" drop down
- 5. My saved Fields select from the drop down and Load or Delete previous saved fields to display

"Compliance Status" field should always selected

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Ship Search

Multiple Ship Searching

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1. Upload multiple lists of ships by Ship Name

- Paste a list of vessel names from a single Excel column or comma separated list. Matching ships that exist in AIS will display in search results, where you can add all to an existing or new WatchList.
- Option to Include Former names
- Click UPLOAD to return results

OR

- Upload mulitple lists of ships by IMO/LR/IHS No.
 - Paste a list of IMO Numbers from a single Excel column or comma separated list.
 Matching ships that exist in AIS will display in search results, where you can add all to an existing or new WatchList.
 - Click UPLOAD to return results

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You can build complex search queries by expanding the required advanced search sections and entering your criteria.

The ability to Save Search is available when viewing the search results list.

Ship Search Results Filter, Sort & Export Grid

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Click an IMO No. to view the full ship details

The results list data grid allows filtering, sorting, selecting and removing of results displayed prior to exporting or performing other actions.

Note: The default setting is for all results to be selected. Simply click "unselect all" to update

- 1. Unselects all records that are currently selected
- 2. Selects all results in the data grid (selected & hidden)
- After applying a filter (7), for example: Compliance Status: Severe "select filtered only" will just select those filtered results
- "Remove unselected" will remove from the list results that are not selected. Note: Removed results
 cannot be retrieved. Simple re-run your search again to get back your original set of results
- 5. Export selected records to the following formats: pdf, .xls, .xlxs, .docx, .rtf or .csv
- 6. Select/unselect individual ships directly on the grid using the tick boxes
- 7. Enter filter values to further refine results
- 8. Add selected ships to a Watchlist
- Update current display fields from your saved fields (these are set on the search page in display fields)

Ship Search Results

Link Ship Results to Ownership Results

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From your search results list you are able to link to related results for ownership details

- 1. Click the Linked Data menu
- 2. Choose the owner type required to return related results based on your ship results

Results will display in the Company Results List

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Ship Search Results

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- 1. Click Report to display Report pop up window
- 2. Choose Report Type from List of Ships or Ship Analysis option which allows filtering and sorting
- 3. Your report will display which you can print

Ship Search Results AISLive View

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View results on the map

- 1. Click AISLive View
- 2. Matching results will be displayed on the AISLive map

Ship Search Results

Analysis View

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View Analysis of results

- 1. Click Analysis
- 2. Analysis view will be displayed with a selection of charts of your selected list and compare to the world fleet:
 - Top 10 Ships be Shiptype
 - Ships by Flag

 - Ships by Flag
 Ships by Age
 Ships by Retirement Year
 Ships by Owner Nationality
 Ships by Country of Registration
 Ships by Country of Build
 Ships by Ship Type Group



Ship Details Add to WatchList

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- Add to your Ship Watchlist (master list) Simply click the WATCH button to add the ship to your Ship Watchlist (default). Once selected the button will change to "watching":
- Or add to a new or existing Watchlist Simply click the - downward arrow to add the ship to an existing Watchlist or Create New List

The ship will now show as "WATCHING".

You will now start to receive automatic alerts for this ship on the Notification Timeline for:

- AIS Message changes (Destination, ETA, speed, draught etc.)
- Ship database changes (Ownership & registration etc.)
- Custom Zone Entry & Exits for All Watched ships

You will automatically receive Email Alerts for: - Custom Zone Entry & Exits for All Watched ships

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Go to Notifications Management to modify/add:

- Create New Notification Lists
- · Add Email Alerts for multiple data fields
- Select Email delivery schedules



Ship Details Compliance Screening



Conducting essential day to day sanctions screening of your customers and their assets can be both complex, timely and add pressure on your compliance team's operations. The IHS Markit solution provides a quick and accurate compliance screening view that automatically checks against a vessel's current and historical sanctions status.

- 1. Overall Compliance Status indicator
- Select Compliance Screening from the navigation tree to display information This must be selected for a ship to be recorded in the audit history
- 3 Review all the checks that are included when calculating the overall status

rved



Ship Details

Insurance Screening

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Insurance Screening View displays the compliance screening information with additional data checks

- 1. Select Insurance Screening from the navigation tree to display information
- 2 Specific data checks that provide additional insight for the marine insurance market



Ship Details

Security Screening

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Security Screening View displays the compliance screening information with additional data checks

- 1. Select Security Screening to display information
- Specific data checks that provide additional insight for the maritime security sector The following helps understand if a ship seems under-utilised commercially or is otherwise "dark" for period...
 - Days under coverage last 12 months, compared against the average for the ship type group
 - Port calls last 12 months, compared against the average for the ship type group

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Ship Details Voyage Screening

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Insurance Streening Security Screening	Dark Type	Cark Hours	Possible At	avity to Denod	2	Area Name	Area Count	ry R	eported Diseaget Cit	Narige Riv	ported Destruction
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My Notes Links	SWA	Georges Collinson			Algena	2019-03-24	2010-04-05				ок
Futuros	Non -	Variante			Mats	2019-03-20	2019-03-22		Low (0.7%)		ок
Ship Performance	1/24	Buch			Algeria	2010-03-17	2019-03-17		Very High (1.95)		OK
	See.	Gilan Archeropo			Algena	2019-02-26	2010-03-17				ок
	Sec	244.00			Algena	2019-02-24	2019-02-24		Very High (3.75)		ок
	their .	Marranges			Mata	2019-02-20	2019-02-22		Low (0.71)		ок
		deses.			Algenta	2019-02-14	2219-02-17		Very 19gh (3.86)		ок
	1260	Denia American			Argena	2010-02-00	2019-02-14				OK
					Mata	2019-01-01	2019-02-01		Lew (0.07)		OK
		Colora Abradispe			Algeria	2010-01-25	2019-01-23				OK
	244				Mata	2019-01-14	2019-01-16		LOW (0.775		OK
					are.						
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Additional voyage screening checks are available to review:

- 1. Select Voyage Screening to display information
- 2. Dark Activity Suspected Details
 - Dark time, hours, possible activity, area name, area country, reported draught and reported destination
- 3. Voyage History
 - Port of call, country, arrival and sailing date, port risk at time of call & Compliance status of port at time of call (last 12 months)
 - Port risk scores from IHS Markit Economic & Country Risk (ECR). Please note port facilities are typically blank when they are offshore as the ECR risk rating model is derived from land-based risk
 - The country compliance column highlights any port calls within sanctioned countries.
- 4. STS Transfer History
 - STS location, STS type, start and end dates and other ship involved name, shiptype and compliance status at time of STS operation

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The ownership screening relationship table automatically checks all seven levels of ownership (group owner, ship manager, operator, DOC company, registered owner, technical manager and bareboat owner) and displays an overall compliance status, it's parents status against the following sanctions lists: OFAC Entity list, UN, EU, BES, OFAC Country list & FATF Country list.

- Select Ownership Screening to display information
- 2. Click on company name to view the company details

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Ship Details Ship Movements

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View Ship Movements Information

- 1. Select to display required information that includes:
 - Overview Trading areas for the last 12 months
 - AIS Position (last received)
 - Berth Calls Lists max. last 50 with option to link to return all in results list Berth calls are comprehensive for cargo carrying ships; tankers, bulk carriers, container ships visiting major ports but may cover smaller ports
 - Port Calls Lists max. last 50 with option to link to return all in results list
 - Port Calls Calendar view
 - Port Calls Map Visual
 - STS Operations Lists max. last 50 STS pairings for the last year with STS type.
 STS pairings are recorded for cargo carrying ships; tankers, bulk carriers, container ships over 5,000gt for cargo and bunkering operations. Fishing transshipments to refrigerated vessels over 5,000gt are also recorded.

2010-07-04 23 24 2010-07-00-00-04 75

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Ship Details Ownership & Registration

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View Ship Ownership & Registration Information

- 1. Select to display required information that includes:
 - 7 levels of owner
 - Commercial history
 - Registration, P&I, and communications
 - P&I Club History
 - Flag, Call Sign & MMSI History

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Ship Details Safety & Certification

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View Ship Safety & Certification Information

- 1. Select to display required information that includes:
 - Overview Three year significant event summary
 - Class history
 - Surveys
 - Crew list data
 - Inspections & detentions as reported by Port State Control (PSC) Authorities
 Safety management certificates
 PSC certificate inspections in last 12 months

 - Casualty & events

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Ship Details Construction

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View Ship Construction Information

- 1. Select to display required information that includes:
 - Construction overview
 - Alterations & conversions
 - Arrangement
 - Construction details
 - Recycling detail (Broken up ships only)
 - Service constraints
 - Ship builder
 - Sister Ships
 - Status
 - Supplementary Features



Ship Details Dimensions



- 1. Select to display required information
 - Dimensions
 - Tonnages

< Contents

Ship Details Cargo & Capacities



View Ship Cargo & Capacities Information

- 1. Select to display required information that includes:
 - Cargo overview
 - Capacities
 - Cargo handling gear
 - Compartments
 - Hatches
 - Ro-Ro (Lanes, Ramps & Doors)
 - Specialist
 - Tanks
 - Towage

Ship Details Machinery



View Ship Machinery Information

- Select to display required information that includes:
 - Machinery Overview
 - Auxillary Engines
 - Auxiliary Generators
 - Boilers
 - Bunkers
 - Prime Mover Detail
 - Thrusters

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35



Company Information

Identify and understand the complex levels of ownership – Who owns, operates & manages a ship/fleet
Company Search

Search & Recently Viewed

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Fleet/Orderbook		
Registration		
Primary Location		

1. Expand to view your Recently viewed companies



- 1. Main search options
- 2. Expand to select advanced search filters
- 3. Expand to set Display Fields Select up to 12 fields to return in your search results
- 4. Search & Clear buttons

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Expand to set Display Fields - Select up to 12 fields to return in your search results

- 1. Available Fields box with search option
- 2. Use the <-> arrows to move Available to Selected
- 3. Currently Selected fields
- 4. Save Fields option. This will be added to the "My Saved Fields" drop down
- 5. My saved Fields select from the drop down and Load or Delete previous saved fields to display

"Compliance Status" field should always selected.

Company Search Advanced Search Options

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You can build complex search queries by expanding the required advanced search sections and entering your criteria.

- 1. Filter by fleet size and orderbook
- 2. Filter by registration and country of country
- 3. Filter by primary company location

Company Search Results Filter, Sort & Export Grid

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Click an LR/IMO Company No. to view the full company details

The results list data grid allows filtering, sorting, selecting and removing of results displayed prior to exporting or performing other actions.

Note: The default setting is for all results to be selected. Simply click "unselect all" to update

- 1. Unselects all records that are currently selected
- 2. Selects all results in the data grid (selected & hidden)
- After applying a filter (7), for example: compliance status: severe "select filtered only" will just select those filtered results
- 4. "Remove unselected" will remove from the list results that are not selected. Note: Removed results cannot be retrieved. Simple re-run your search again to get back your original set of results
- 5. Export selected records to the following formats: pdf, .xis, .xixs, .docx, .rtf or .csv
- 6. Select/unselect individual companies directly on the grid using the tick boxes
- 7. Enter filter values to further refine results
- Update current display fields from your saved fields (these are set on the search page in display fields)

Company Search Results

Linked Owner & Ship Data

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From your search results list you are able to link to related results for owner types and any ships

- Click the Linked Data menu
- Choose Owner Type required to return related results based on the company results OR
- 3 Choose Any ships to return related ships based on the company results

Results will display in the Companies or Ships Results List

Company Search Results Reports



Run fleet list reports for companies in the results list (max first 25 companies in list)

- 1. Click Reports
- 2. Select Fleet List
- 3. Select Fleet List by specific Ownership type and Run Report
- 4. Your report will open with print options

Company Details Add to Watchlist

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- 1. Watch a Company
- Simply click the WATCH button to receive notifications on data changes
- Once selected the button will change to "Watching"
- You will now start to receive automatic alerts for this company on the Notification Timeline for Company database changes (Ownership & registration etc.)

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Company Details Compliance Screening

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- 1. Overall Compliance Status indicator
- 2. Select Compliance Screening from the navigation tree to display information
- This must be selected for a ship to be recorded in the audit history
- 3. Review all the checks that are included when calculating the overall status
 - A status of OK, Warning or Severe will display making it easy to identify companies that are compliant, non-compliant or require further investigation.
- 4 Any related ships or related companies with possible compliance issues will display
- 5. External Media Search Quick link to third party search results for company name



Company Details Relationships



- From the Company details screen click Relationships to open the company relationships interactive visualization
- 2. Change view options
- 3. Visualisation Settings & Key
- Quickly identify related companies current compliance status Nodes displayed with a WARNING (Yellow) and SEVERE (red) highlight potential compliance risks

Company Details

Company Details, Contacts & Addresses

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View Company Detail Information

- 1. Select to display required information:
 - Personnel Contacts
 - Addresses
 - Company Group Structure
 - Related Companies
 - History
 - Notes

Company Details

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View Fleet Information

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Combined Fleet

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- DOC Holder fleet
- Group Owner fleet
 Shipmanaged fleet
- Registered Owner fleet
- Operated fleet
- Fleet Technical Manager
- Historical Fleet (including dead ships)

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Company Details

Casualty & Events

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View Casualty & Events Information

- 1. Select to display required information:
 - Current Fleet's Casualty Event History
 - Historical Registered Owner Fleet's Casualty Event History

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Company Details Safety & Certification

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View Safety & Certification Information

- 1. Select to display required information:
 - Latest Document of Compliance (DOC) certificates
 - PSC Inspection history of ships currently associated with this company
 - Historical DOC Fleet PSC Inspection History Analysis

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Audit History Ship & Company Audit History Report



MIRS automatically records evidence that a compliance check has been conducted for a ship or company when the details have been viewed.

- How is a ship or company added to the Audit History?
 - You <u>must view</u> a ship or company details and have <u>Compliance Screening</u> selected in order for the system to automatically record the ship or company to the audit history.
 - If the Compliance Screening section is not selected, details will not be recorded.
- 2. Go to the menu and select Audit History to view report
- 3. The Audit History report lists ship and companies viewed and displays:
 - IMO no., ship/company name, AIS Destination, AIS Position, date-stamp (UTC) and compliance status.
 - This tamper proof report can be printed or saved to .pdf to use as evidence that due diligence was conducted for regulatory compliance and audit purposes

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Casualty & Events

Search & Review Details of Ship Casualty, Piracy & Pollution Events with optional alerting services



Casualty & Events Search

Overview (Saved Search, Recently Viewed & Latest Events)

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The Casualty & Events database search provides access to latest reported casualty, piracy & pollution events. All events are automatically processed and added to the database - so there is no need to wait for IHS Markit data analyst verification keeping you one step ahead.

- Overview Collapse/Expand to view:
 - Previously saved searches (Save Search button is at top of the search results list)
 - Recently viewed events
 - Quick links to Latest Events
 - Latest events positions (where Lat/Long is known)
- 2. Main Search options
- 3. Expand to select advanced search filters
- 4. Expand to set Display Fields Select up to 12 fields to return in your search results

Casualty & Events Search **Display** Fields

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Expand to set Display Fields - Select up to 12 fields to return in your search results

- 1. Available Fields box with search option

- Currently Selected fields
 Save Fields option. This will be added to the "My Saved Fields" drop down
 My saved Fields select from the drop down and Load or Delete previous saved fields to display

Casualty & Events Search

Advanced Search Options

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Event Locations

Display Fields



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You can build complex search queries by expanding the required advanced search

> Use your Mouse to select the required Zone or Marsden Grid to add to your

Click on a Zone or Grid to select it, clicking again will de-select it.

sections and entering your criteria.

Incident details
 Ship details

3. Event location map

Event Search.

Casualty & Events Search Results

Filter, Sort & Export Results

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Click an Event ID to view the full Event details

The results list data grid allows filtering, sorting, selecting and removing of results displayed prior to exporting or performing other actions.

Note: The default setting is for all results to be selected. Simply click "unselect all" to update

- 1. Unselects all records that are currently selected
- 2. Selects all results in the data grid (selected & hidden)
- 3. After applying a filter (7) Select Filtered Only will just select filtered results
- 4. "Remove unselected" will remove from the list results that are not selected. Note: Removed results cannot be retrieved. Simple re-run your search again to get back your original set of results
- 5. Export selected records to the following formats: pdf, .xls, .xlxs, .docx, .rtf or .csv
- 6. Select/unselect individual companies directly on the grid using the tick boxes
- 7. Enter filter values to further refine results
- 8. Update current display fields from your saved fields (these are set on the search page in display fields)
- 9. Save Search will save your search criteria (not results)

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Casualty & Events Search Details

Event Details

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View Event Details which will provide summary and also list any Related Events

- 1. Select to display required information
- 2. View and link to Related Events

- Cargo details (if known)
 Event Details
 Location Details
 Ship Details at time of incident
- 7. Voyage Details



Interactive map for global ship tracking & domain awareness, powered by AIS terrestrial & satellite intelligence and IHS Markit data verification & analysis



Searching, List Ships, Ports & Events



You can search the map in 2 ways. Results are returned in the search results panel

1. Search Box

Search by ship name, IMO, call sign, MMSI or Port name

2. Map

Zoom into an area on the map To enable buttons zoom into the map as a max of 500 results can be viewed at a time

- Click List Ships to return visible ships
- Click List Ports to return visible ports
- Click List Events to return visible events
- Click on more buttons to display section headers Click on fewer buttons to minimise section headers
- 4. Expand / collapse panel





Search Results Panel:

- Option to Watch All ships in results list or you can select individual ships to Watch
- 2. Bulk upload option allows you to upload multiple ships
 - Paste a list of IMO Numbers from a single Excel column or comma separated.
 - Matching ships that exist in AIS will display in the search results panel, where you can add all to an existing or new WatchList.
- 3. Option to view the results with more (expand) or less (collapse) detail.
- 4. Simply click into a ship to view further details
- To view ship results in a data grid click Ships in Sea-web
- (matching ships in IHS-Markit's ships database)

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Map Panel - Details - Ship Details



The ships details provides AIS information and success to the following information:

- 1. Compliance status Indicator displayed (core and non-core ships)
- 2. Add to Watchlist
- 3. View full ships details and compliance screening information
- 4. AIS details
 - AIS Message details
 - Voyage History Recent port calls
 - Movements Full port and berth calling history
- 5. Status provides key AIS details
- 6 Track Track ship on map & access the voyage calculator tool Click on Track Settings to update your preferences
- 7. Add your own notes

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Map Panel - Details - Port Details



The port details provides AIS information and success to the following information:

- 1. Watch a port (IHS Markit defined port zone area used for calculating port callings)
- 2. View full port details
- 3. Link to view Port Callings data grid results
- 4. Filter map to show inbound ships to port
- Filter map to show outbound ships from port 5 Port description
- 6. Port Risk score

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Map Panel - Details - Event Details



Click on an event on the map

- Event Summary
- 2. Click Event Detail to view the full details

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Live Tracking Map Panel - Watchlists



- 1. Select the Watchlists panel to click on a ship see the current locations
- 2. To manage/edit your watchlists click on Alerts & Watchlists
- 3 Tip use the ship filters to only show your watchlists on the map

Live Tracking Map Panel - Filters & Layers

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- 5 Option to save favorite your filters
- Options to save your favorite areas zoom in on the map and click Save Area
- 7 Option to upload your own KML layers to overlay on map



Map Panel - Map Settings & Legend



There are a range of map settings and display options available

- 1. Click on Map to edit/select map settings
 - Select your preferred base map type to display, ship view icons, port view icons (standard or by risk) and label display options
- Click on Legend for key to map symbols, colour coding, weather and navigation tips



Map Panel - Real Time Intelligence



Real Time Intelligence provides an instant overview of all visible ships or events within the map area you are viewing (by top 10 results)

Click on Real Time Intelligence to run report and view SHIPS or EVENTS

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Live Tracking Map Panel - Zones - Overview



CUSTOM ZONE AREAS:

- Create custom zones by drawing polygonal or circular areas.
- Set up an unlimited number of custom zones
- The name of each zone is clearly labelled on the map .

PRE-DEFINED PORT ZONE AREAS:

· Monitor Global Ports - To set up alerts for pre-defined port areas you can do this via the notifications management from the zones drop down option.

CUSTOM ZONE ALERTING:

TimeLine Zone Notifications By default your Timeline will automatically alert you of ships in your WatchList entering and departing a new custom zone(s) you have created

Ships Entering/Departing Custom Zones

WatchLists: Default alerts are automatic for all ships in your WatchLists entering and departing a zone Any Ship: Alerts (Timeline & Email) can be added, Zone alerts can be for WatchLists ships or ANY ship entering/departing

Email Alerts

To receive zone alerts via email, please go to the Email Management center to set up the email schedule and then apply to the Notification list



Live Tracking Map Panel – Creating Zones



Create zones to monitor specific areas of interest and receive entry/exit alerts for your Watchlists You can create polygonal or circular zones

- 1. To create a new zone Click on New Polygon Zone or New Circular Zone
 - Polygon Zone
 - Name Zone
 - Draw Zone on map
 - Insert polygon points by clicking on the map
 - Double click to finish editing
 - Last point automatically connects with first point.
 - Save or Cancel
- 2. Circular Zone
 - Name Zone
 - Enter NM (nautical miles)
 - Save or Cancel
- Click on the edit icon to redraw/edit zone

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Live Tracking Map Panel – Weather



Click on Weather to open panel Or access from filters and layers risk layer: (click on options/forecast to change the weather to display)

- Select to show weather and select weather type required Option to hide ships when showing weather
- 2. To display 5 day weather forecast charts zoom further into the map

Tip - Go to the Settings > Legend to view the weather key

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Live Tracking Map Menu Options

Chart Analysis List Events in view List Ports in view List Ships in view of ships or events on map max 500 max 500 max 500 Zoom in to reduce no. of ships to enable link dents & WalchtLists Ship Tracks 🕶 Lei Purts Details United Kingdof Daily Tracks By LRA Current Ship Clear ALL Tracks 1 of 1 V Compliance Status OK ARKLOW VIEW 6 General Cargo Shid Ship Track Options Click on Settings to select options Alerts & Link to return visible ships on map to Sea-WatchLists web's ship results grid with that includes Tip - Single ship tracks are also Management compliance status information accessible from the Track tab when Areas (IHS Markit verified ships only) viewing a ship detail

- 1. List Ships, Ports or Events
- Ships in Sea-web
 Alerts & WatchLists
- 4. Ship Track Track a single ship (click on a ship to select) or track multiple ships (max up to 50)

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Ship Tracking

CIELO DI DUBLINO

Voyage Calculator

Track





- 1. When viewing a ships details click on the Track tab for tracking options.
- Tick Show Ship Track on Map
 If you want to change the display settings select Track Settings
- 4. There is a voyage calculator available to calculate ETA to destination
- 5. Alternatively you can click Current ship from Ship Tracks menu

Show Multiple Ship Tracks

- 6. Click on the Ships Tracks link on the map menu
- 7. Select to display all tracks by MMSI (max 50 ships) OR daily tracks by LR/IMO No (max 500 ships) Tip: Apply filters to refine your ship results or zoom into the map to activate the track options

Clear all tracks will remove tracks form map

Track Settings >

of Tracks By MMSI (Mak ED Daily Tracks By LR/IMO NO. (M

Current Ship Clear ALL Tracks



Ship Tracks Settings



Track Settings

Data sourced from combined AIS satellite & terrestrial data... There are a range of track settings available from the Ship Tracks > Settings menu link

- 1. Track by MMSI provides more detail but only for last 90 day period. Note MMSIs change so this option is not recommended for long term tracking
 - 0-7 days, every 15 minutes
 - 8-30 days, hourly position
 - 31-60 days, latest daily position
 - Gaps of 24 hours dashed
 - Option to select number of days history or date ranges with a number of pre-set values
- 2. Track by IMO number (back to 2005) plots a ships track using a daily position only
 - Gaps of 3 days dashed
 - Only for IMO verified ships
- Option to select number of days history or date ranges with a number of pre-set values Track colour can be random, this is useful if showing more than 1 ship.
- It can be forced RED if draught or speed threshold breeched. For example, highlight the track when draught is below 70% of maximum draught (IMO vessels only) to show when it is not laden.
- Display options:
 - Hide ships will leave no ships showing on multiple tracks or just the tracked ship if a single ship is selected
 - Animate track history will animate the ships progress along a track (single ship only)
 - Show track to destination will draw a dotted line "as the crow flies" from current position to destination (single ship only)
 - Show event popups shows port calls or berth calls and STS operations (single ship only)


Historical Tracking

Search Port, Country, Berth & Terminal Callings, AIS Zone Callings and STS Transfers

Movement Search

Overview (Saved Search, Port Calls & Trading Zones)

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Expand/Collapse Overview area to show

- Previously Saved Searches (Option to save search is on the results grid)
- Quick links to (top 8) ports with most ships destined for and currently
- Global tradings zone analysis
- 2. Main Movement Search options
- 3. Advanced search filters
- 4. Display fields set up to 12 fields to display for your search results

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Display Fields

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Expand to set Display Fields - Select up to 12 fields to return in your search results

- 1. Available Fields box with search option

- Currently Selected fields
 Save Fields option. This will be added to the "My Saved Fields" drop down
- 5. My saved Fields select from the drop down and Load or Delete previous saved fields to display

Movement Search

Advanced Search Options

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 Ship Drama 						
Ship Details		6	Ownership			
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You can build complex search queries by expanding the required advanced search sections and entering your criteria.

- 1. Add ship details & ownership filters
- 2. Add ship type & machinery filters

The ability to Save Search is available when viewing the search results list.



Search Port Calls to identify ship departures, arrivals, currently at and destined for ...

- 1. Select Search type: Port Calls
- 2. Select Movement/Call Type
- 3. Select date range
- 4. Select port of call
- 5. Watchlists Option to apply filter to only return results for selected Watchlists

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Search Berth & Terminal Calls to identify ship departures, arrivals and currently at...

- 1. Select Search type: Berth & Terminal Calls
- 2. Select Movement/Call Type
- 3. Select date range
- 4. Select port of call
- 5. Select terminal name
- 6. Select berth name
- 7. Watchlists Option to apply filter to only return results for selected Watchlists

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Search Country Calls to identify ship departures, arrivals and currently at ...

- 1. Select Search type: Country Port Calls
- 2. Select Movement/Call Type
- 3. Select date range
- 4. Select country of call
- 5. Watchlists Option to apply filter to only return results for selected Watchlists

Additional filters for ship, ownership, ship type and machinery can also be used in the search
 Select Display fields to choose the fields of interest

STS Transfers

Show Overview (550)	Refers Download Dearth Aurol 20 Searches Port callings (Troding James)	t wat het		Linet Devi Loss 1: Gays Linet Month Linet 2: Menths Linet is Menths Linet is Menths
Movement Search	Search Type M, AIS Zones	• 26 Apr 2019 to 02 May 2019 🖻 /		4944
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Ship/Ownership				
Shiptype, Machinery			Туре	
Display Fields			(None selected) (Rome none (no)) Bunkering Cargo Fishing	

Search STS transfers to identify ships involved in bunkering, cargo and fishing transhipment avtivity

- 1. Select Search type: STS

- Select date range
 Select country of call
 Select Port of Call (on berth bunkering only)
- 5. Select to filter by your custom zones
- 6. Select STS type
- 7. Watchlists Option to apply filter to only return results for selected Watchlists

- Additional filters for ship, ownership, ship type and machinery can also be used in the search

- Select Display fields to choose the fields of interest



My AIS Zones

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ShipiOwnership		
Shiptype, Machinery		
Display Fields		

Select Search type: My AIS Zones
 Select date range

3 Select your zone (zones are created on the map interface)

4 Watchlists - Option to apply filter to only return results for selected Watchlists

- Additional filters for ship, ownership, ship type and machinery can also be used in the search

- Select Display fields to choose the fields of interest

< Contents



Transits



Run a search to identify ships that have sailed through transit areas of interest

- 1. Select the search type Transits
- 2. Select the date range
- 3. Select transit zone of interest
- Watchlists Option to apply filter to only return results for selected Watchlists

- Additional filters for ship, ownership, ship type and machinery can also be used in the search

- Select Display fields to choose the fields of interest

Filter, Sort & Export Grid

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						£12		Southanterton.	

Click an IMO No. to view the full ship details

The results list data grid allows filtering, sorting, selecting and removing of results displayed prior to exporting or performing other actions.

Note: The default setting is for all results to be selected. Simply click "unselect all" to update

- 1. Unselects all records that are currently selected
- 2. Selects all results in the data grid (selected & hidden)
- 3. After applying a filter (7) will just select those filtered results
- "Remove unselected" will remove from the list results that are not selected. Note: Removed results
 cannot be retrieved. Simple re-run your search again to get back your original set of results
- 5. Export selected records to the following formats: pdf, .xls, .xixs, .docx, .rtf or .csv
- 6. Select/unselect individual ships directly on the grid using the tick boxes
- 7. Enter filter values to further refine results
- Update current display fields from your saved fields (these are set on the search page in display fields)
- 9. Save Search criteria option

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Linked Owner & Ship Data

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From your search results list you are able to link to related results for ownership and ship details

- 1. Click the Linked Data menu
- 2. Choose the owner type required to return related results based on your ship results
- 3 Choose to link to ships this will return a list of ships not movements records as a ship can appear multiple times in a movements list.

Results will display in the Company Results List

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Reports

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Run a Report of your search results

Click Report to display Report pop up window
 Choose Report output (potrait or landscape)

Your report will display which you can print

Analysis



View Analysis of results

- 1. Click Analysis
- 2. Analysis view will be displayed with a selection of charts of your selected results list
 - Country calling by destination
 - Country callings by origin
 - Movements by flag
 - Movements by shiptype

Option to print and download charts from the chart menu icon

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HIS Markit

Watchlists

WatchList Settings

Watch ships, areas and companies with comprehensive alerting and notifications capabilities

Watch Ship(s), Companies & Zones

- Watch a ship(s) to automatically receive timeline notifications of:
 - Ship (data*) change
 - AIS (data) change
 - Sanctioned country calls, entry/exit
 - JWC War Zones, entry/exit
- Watch a company to automatically receive timeline notifications of:
 - Ownership (data*) changes
- Create a zone to automatically receive timeline notifications of:
 - Watched ships entering & departing

Email schedules can be activated by editing the notification list in notifications management * Note data from our internal database is replicated to the platform once a day

Watchlists

Watch System Workflow

Follow the workflow to set up WatchLists and apply filters for alerts & notifications



Manage Watchlists

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You can access Watchlists throughout the system by clicking Alerts & Watchlists > WatchLists

- 1. Option to select fields to display in the data grid below (max 12) Click Apply to update changes
- 2. If you have multiple WatchLists select from the drop down the list you wish to view
- You can view the selected list in Sea-web's data grid which displays the compliance status
 Delete all option
 Refresh data
 Export to excel (.csv)

- 7 Delete individual ships from a WatchList

Notifications System

Introduction

Enabling customers to modify and build tailored alerts to better align with daily workflows

Use the new Notification Management system to ...

- Automatically monitor ships, companies, ports, custom zones, JWC war risk zones and OFAC sanctioned country calls
- Modify existing notifications
- Create new notifications
- Associate specific WatchLists, zones and ports to refine your notification alerts
- Select (email) schedules for notifications
- Select data field changes to be notified on
- Add specific filters for notifications

- For WatchLists set up the default is to be alerted on all data field changes* on the timeline only, add a schedule to the notification list in the management area to receive emails
- · For Custom zones set up the default is to be alerted on ships in (all) WatchLists entering & exiting, to modify notification list go to the management area
- For JWC War Zones the default is to be alerted on ships in (all) WatchLists entering & exiting, to modify notification list go to the management area
- For Sanctioned Country Calls the default is to be alerted on ships in (all) WatchLists entering & exiting, to modify notification list go to the management area
- For Casualty & Events the default is be alerted on all events to the timeline only, edit the "Casualty & Evens" list in the management area and add an email schedule

*please refer to the fields and filters for more information available

Notifications System Overview

Maritime Intelligence Risk Suite (MIRS) WatchLists Zones System TimeLine Notifications View a feed of all your notifications View a feed of all your notifications

WatchLists - Ship (AIS), Ship (data) and Company (data) field changes

WatchLists - Ship (AIS) entering & departing Custom Zones set up

WatchLists - Ship (AIS) entering & departing JWC War Risk Zones

WatchLists - Ship (AIS) entering & departing OFAC Sanctioned Countries

ANY Ship entering & departing a zone

ALL Latest Casualty & Events (Piracy & Pollution)

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Notification Centre

Capabilities, Fields & Filters

AIS Message derived data IHS Markit Databases fields.

ships, ports & companies, casualty & events

AISLive (unlimited)	Sea-web (unlimited / Max 2,500 per li	st)
Alerting - Selectable Fields		
Bareboat Charterer company	Estimated Time of Arrival	Registered Owner
Call Sign	Flag	Ship Manger
Call Sign (AIS)	Gross Tonnage	Ship Name
Classification Society ·	Hazard Category	Ship Name (AIS)
Construction Details	Navigational Status	Ship Status
Deadweight	Operator	Ship type (AIS)
Destination	P&I club	SMC
DOC Company	Port Of Registry	Technical Manager
Draught (AIS)	Prime Mover	Out of Range
Casualty & Events		
Alerting - Zone/Area Filters		
Custom Zones (polygonal)	JWC War Zones	
Custom Zones (circular)	Sanctioned Country Calls	
Port Zones		All Annual and a second se
Alerting – General Filters		
Bareboat Charterer company	Gross Tonnage	Port of Registry
Deadweight	Group Beneficial Owner Company	Registered Owner
Destination	Navigational Status	Ship Manager
Draught (AIS)	Operator	Speed
Draught (MAX)	P&I Club	Technical Manager
Flag	Out of Range	
Email Schedule Options		
Instant	Do not disturb (between selected ho	purs)
Houriy (1-24)	Mute Alerts	
Daily		
Timeline Notification Lists		
Ship Watchlist (master)	Casualty & Events	AIS Zones (Custom)
Custom Watchlists	Company List	Ports (pre-defined)
		JWC War Zones (pre-defined)

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Notifications Timeline

Filter, Search & Linking

All Notifications (0 of 0) + Autosciol Turr Notifications(0)	on email for ALL notifications
Notifications(0)	Former (1220)
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A sevastopol dest 03 May 2019 at 16:25 KAPITAN-LEYTENANT KAZARSKIY changed navigational status to "Moored", out o Range" to "In Range"	View in Seaweb. View in AlSLive of range from "Out
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Ship Watchilst 03 May 2019 at 16:12 SEA DRAGON changed destination from "" to "Taichung"	View in Seaweb, View in AlSLive
Ship Watchfist 03 May 2019 at 16:11 MAERSK ALTAIR changed estimated time of arrival from "03 May 2019 16:00" to "0	Notification Key:
Ship Watchlist 03 May 2019 at 16:08 CONMAR ISLAND changed navigational status from "Underway Using Engine" to "	. 🎆 Ship (change) Notification
Haimstad. Terminal 03 May 2019 at 15:50 NECKAR HIGHWAY left Haimstad Terminal	Company (change) Notification
Ship Watchlist 03 May 2019 at 15:25	Casualty & Event Notification
NECKAR HIGHWAY changed navigational status from "Moored" to "Underway Usil	New to Notification List

Easily access your Timeline Notifications:

- 1. Filter Timeline by Lists

 - Use the drop down to filter by notification list and associated Entities
 Any new notifications will be shown as an unread count (4 of 4 in this example)
 Number will be indicated next to the relevant list in the dropdown
- 2. Search enter IMO, MMSI or text to search notifications
- 3 Export timeline option

THS Markit Customer Care

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