

VESSEL TRACKING

Lloyds List Intelligence provides options for your entire vessel tracking needs.

- Fleet real-time observation.
- Vessel voyage track plotting.
- Accurate detailed historical vessel date / time position data.
- Confirmed human intelligence reports of vessel arrival and departure from ports, choke point transits e.g. Suez, Gibraltar ...

The following tables describe the types of positional data available and the LLI maritime analysts will be pleased to help you identify the most appropriate type of vessel tracking data to meet your specific business needs.

AIS POSITIONS

AIS POSITIONS data are used to provide either the last known AIS position for each vessel at intervals that you specify or all AIS positions in a specified period of time.

Typically this information is used to study details of a vessel's course to deduce business intelligence. When it is supplied real-time unexpected course changes are used to gain early insight in markets. Historical data is often used for identifying past behaviour of vessels to predict future actions, for due diligence and for investigations into courses and actions of vessels prior to and during maritime incidents.

Apart from the occasions when the data is being used in investigating maritime incidents where only data from one or two vessels are present, clients generally use specialised systems with the ability to show the positions on charts to manage the very large data sets generated.

COLUMN NAME	COMMENTS
VESSEL ID	Vessel ID links to table LLI VESSELS
MMSI NUMBER REPORTED	MMSI number being transmitted by the vessel.
MESSAGE TIMESTAMP	Initial date/time of AIS position
LATITUDE	Latitude of vessel (decimal)
LONGITUDE	Longitude of vessel (decimal)
SPEED OVER GROUND	Speed vessel was travelling at in knots.
COURSE OVER GROUND	Direction in which vessel was travelling.
RATE OF TURN	Rate of turn given by the vessel.
TRUE HEADING	True heading given by the vessel.
NEAREST PLACE	Calculated nearest place within LLI database. Used to give geographical context
NEAREST COUNTRY CODE	Country where nearest place is located.
DISTANCE TO NEAREST PLACE	Distance in nautical miles to nearest place
AIS DESTINATION	Destination of vessel as being transmitted by vessel. May not be accurate as it is input by vessel crew.
DESTINATION ETA	Date/time on which vessel due to arrive at destination as is transmitted by vessel. May not be accurate as it is input by vessel crew.
AIS DRAFT	Vessels displayed draft as transmitted by vessel. May not be accurate as input by vessel crew.
DIMENSIONS	Dimensions of the vessel as given by the AIS equipment on board.
NAVIGATION STATUS	Navigation status of the vessel as transmitted by the AIS equipment on board.
TYPE AND CARGO	Type and cargo code as transmitted by the AIS equipment on board. Limited information is available in this field
SOURCE	Indicates the source of the AIS position – land based or satellite.

AIS SIGHTINGS

Table AIS SIGHTINGS summarises data from the **AIS POSITIONS** table to reduce the client overhead in managing and analysing the AIS data. AIS sightings are used where the visual display of individual vessel tracks between ports is important to but where the minute by minute changes of course and direction are not required to meet a business requirement. Typical uses may be the study of time based traffic density analysis in a location to support asset collision risk calculations or visualising the vessel traffic connections passing through a location.

COLUMN NAME	COMMENTS
VESSEL ID	Vessel ID links to table LLI VESSELS
MMSI NUMBER	MMSI number being transmitted by the vessel.
SIGHTING TYPE	Indicates the type of sighting. Stopped/approaching/distancing/satellite
FROM GMT	Initial date/time of AIS sighting
TO GMT	Final date/time of AIS sighting (period covered)
NEAREST LATITUDE	Nearest latitude of the vessel (decimal) in relation to the NEAREST PLACE.
NEAREST LONGITUDE	Nearest longitude of the vessel (decimal) in relation to the NEAREST PLACE.
LAST SPEED OVER GROUND	Last speed the vessel was travelling at in knots as reported by AIS during the sighting.
LAST COURSE OVER GROUND	Last direction the vessel was travelling in as reported by AIS during the sighting.
NEAREST PLACE	Calculated nearest place within LLI database. Used to give geographical context
NEAREST COUNTRY CODE	Country where nearest place is located.
DISTANCE TO NEAREST PLACE	Distance in nautical miles to nearest place. In relation to the nearest LATITUDE/LONGITUDE.
AIS DESTINATION	Destination of vessel as being transmitted by vessel. May not be accurate as input by vessel crew.
DESTINATION ETA	Date/time on which vessel due to arrive at destination as is transmitted by vessel. May not be accurate as input by vessel crew.
LAST DRAFT	Last draft of the vessel reported by AIS during the sighting. May not be accurate as input by vessel crew.
NUMBER UPDATES	Number of positions received during the time of the sighting.

LLI MOVES

Table LLI MOVES contains accurate port arrival departure current and historic vessel movement information recorded using a combination of the Lloyd's Agency network human intelligence sources and processed AIS data. The consistent port based information is used to analyse vessel trade routes and provides more detailed and greater insight into port to port traffic networks than is available through the study of vessel AIS tracks.

COLUMN NAME	COMMENTS
VESSEL ID	Vessel ID links to table LLI VESSELS
MOVE ID	Primary Key. Unique identifier of movement record in the LLI database.
MOVE SEQUENCE	Sequential movement ID within a vessels own movement history
PLACE ID	Foreign Key. Links to PLACE ID in PLACS
ARRIVAL DATE	Date on which vessel arrived at location.
ARRIVAL TIME	Time on which vessel arrival at location. This is local time in reference to the place.
ARRIVAL DATE ESTIMATED	Y – Indicates that the ARRIVAL DATE has been calculated
ARRIVAL DATE QUALIFIER	Qualifies ARRIVAL DATE . After / Before / About

SAILING DATE	Date on which vessel sailed from location.
SAILING TIME	Time on which vessel sailing from location. This is local time in reference to the place.
SAILING DATE ESTIMATED	Y – Indicates that the SAILING DATE has been calculated.
SAILING DATE QUALIFIER	Qualifies SAILING DATE . Can be decoded via After / Before / About
MOVEMENT TYPE	Combined with MOVEMENT QUALIFIER . Anchored, Passing...
MOVEMENT QUALIFIER	Combined with MOVEMENT TYPE . <i>Passing East</i>
MOVEMENT NARRATIVE	Free format text associated with movement.

LLI ETA

LLI Estimated time of arrival contains details of anticipated future port arrivals of vessels. This information is recorded from AIS and a number of other independent sources.

COLUMN NAME	COMMENTS
ETA ID	Primary Key. Unique identifier of ETA record in the LLI database.
VESSEL ID	Vessel ID links to table LLI VESSELS
PLACE ID	Foreign Key. Links to PLACE ID in PLACES
ETA	Date on which vessel is estimated to arrive at the location.
TERMINAL	Terminal which the vessel is reported to be travelling to.
VOYAGE	Name of the voyage/route the vessel is operating on. Typically provided for container line ETA's.
ETA SOURCE	Name of the source of ETA record. AIS = Sourced from AIS (Automated Identification System). LAN = Sourced from Lloyds Agents and other commercial partners.

If you have any questions about Lloyd's List Intelligence Made-to-measure Data, please call +44 (0) 207 017 5392 or email info@lloydslistintelligence.com.