

BENEFITS



Managed Traffic

Manage the traffic of anchored ships if there is a buildup of ships at the port.



Identify Ship

Identify the position, heading and speed of the targeted vessel.



Analyze and Monitoring

Analyze and monitor the position, destination and speed of ships to provide shipping security and safety in the port.



Port Optimization

meet the needs of docked ships and optimize port activities.



Tracking anomalies

displays and tracks ship movement anomalies with dynamic data on ships in the waters.



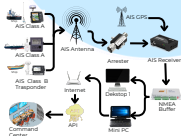
Ease of Ship Registration

provide ease of preparation for the registration & administration process of sea vessels.

AIS BASE STATION SYSTEM

- BENEFIT
- HOW IT WORKS
- SPESIFICATION
- ABILITIES

TOPOLOGY SYSTEM AIS



AIS BASE STATION SYSTEM

*Sustainable Future:
A Report on EdTech*

Automatic Identification System (AIS)

AIS BASE STATION SYSTEM

HOW IT WORKS

Monitoring Port Activity

In a seaport area, the harbor master equips his port with an AIS Base Station System, which is part of the Vessel Traffic Services (VTS) whose function is to permanently display a map and actively monitor every ship movement live 24 hours a day.

Data Updates and Reception

AIS Base Station System at a port receives the information which is periodically updated (every few seconds to minutes, depending on the vessel's speed and maneuver).

Information Display

Received data is displayed on electronic equipment within AIS base station control center, allowing port crew member to view information about the other vessels nearby port.

Part of E-Piloting

The VTS controller's task is to use the AIS Base Station System to provide accurate and updated information about shipping traffic in the port, the presence of new dangers in the lane or to alert ships about activities in the lane.

Analysis and Decision Making

AIS data at port base station aids in making safe navigation decisions, such as avoiding collisions or navigating through ship traffic safely.

Communication With Ship Crew and Other Authorities

AIS assists maritime authorities in monitoring ship traffic, enhancing maritime safety, and protecting the marine environment.

Safety and Rescue

In emergencies, AIS serves as a valuable tool for search and rescue operations by providing accurate information about distressed vessel's positions.

SPECIFICATION

Integration AIS System Solution



AIS Receiver System



Supporting Units



Software & Hardware



ABILITIES

Ship Identification

AIS allows ships to identify each other, providing information such as name, type of ship, IMO (International Maritime Organization) number, size, status, and speed.

Ship Monitoring

AIS enables users to monitor the real-time movement of ships nearby. This can assist in navigation, maritime traffic control, and maritime security management.

Maritime Safety

AIS helps enhance safety at sea by enabling ships to monitor other vessels in their vicinity and avoid collisions or other conflicts. It can also be used in search and rescue operations.

Prevention of Ship Theft

With AIS, ship owners can track the location and movement of their vessels, aiding in the prevention of theft or hijacking.

Maritime Traffic Management

AIS assists in managing ship traffic in ports and busy waterway, allowing for prioritization and control of vessel's traffic.

Environmental Monitoring

Some AIS systems can also be equipped with additional sensors to monitor environmental parameters such as water temperature, water quality, or marine pollution.

Regulatory Compliance

AIS helps ships comply with international and national regulations that require the use of automatic identification systems on ships.

Open CPN Software

Desktop

Desktop



Sea Port Software

Menu Settings

Desktop



Ship Analysis Software

Anomaly Detection

Weather Satellite Info

