

DESIGN OF OPEN ARCHITECTURE ELECTRONIC CHART DISPLAY AND INFORMATION SYSTEM (ECDIS)

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ABSTRACT

This paper is practical design and implementation of an Electronic Chart Display and Information System (ECDIS) is a specific form of computer-based navigation information system that complies with International Maritime Organization (IMO) regulations and can be used in lieu of paper navigation charts in some areas. Not all electronic chart systems can be called an ECDIS, but the term is often incorrectly used to refer to any type of Electronic Chart System (ECS). The true ECDIS system displays information integrates position information from the Global Positioning System (GPS) and other navigational systems, such as Radar, echo sounder, gyrocompass etc. It may also display additional navigation-related information, such as Sailing Directions. This project has a general background about ECDIS, then concerned with the different inputs to this system such as GPS, Radar, Echo Sounder and Gyrocompass. We will demonstrate the program which will simulate the actual work for the ECDIS system with its all interfaces with Rader, GPS, Speed log...etc. We preferred to design the software using the used software c++ Builder 6. This Program is a window based Software.

KEYWORDS: IMO, SOLAS, Ship Control, Signal Processing, Sensors