

A SYSTEM AND METHOD FOR SATELLITE REMOTE MONITORING OF MARINE BASED ASSETS

Abstract

A system for satellite remote monitoring of a marine vessel is described comprising a satellite network, a central server, a central controller, a satellite terminal, and a digital video recorder module for recording and storing digital footage of areas on and proximate the marine vessel. The system further comprises a fuel volume sensor adapted to provide the sensor readings of fuel volume at a sampling interval; a fuel consumption sensor adapted to provide the sensor readings of fuel consumption at the sampling interval and a fuel density and temperature sensor adapted to provide the sensor readings of fuel density and fuel temperature at the sampling interval. Wherein the central server is adapted to determine a drop in fuel volume at the sampling interval and an expected density of the fuel from the fuel temperature, and the central server is further adapted to determine when the drop in fuel volume differs from the fuel consumption beyond a first threshold or when the fuel density differs from the expected density of the fuel beyond a second threshold, the central server triggers an alert having a timestamp to a user; and wherein the central controller is adapted to request and obtain the digital footage over a specific time interval from the digital video recorder module, the specific time interval based on the timestamp of the alert, and send the digital footage via the satellite terminal and the satellite network to the central server.

Figure 1