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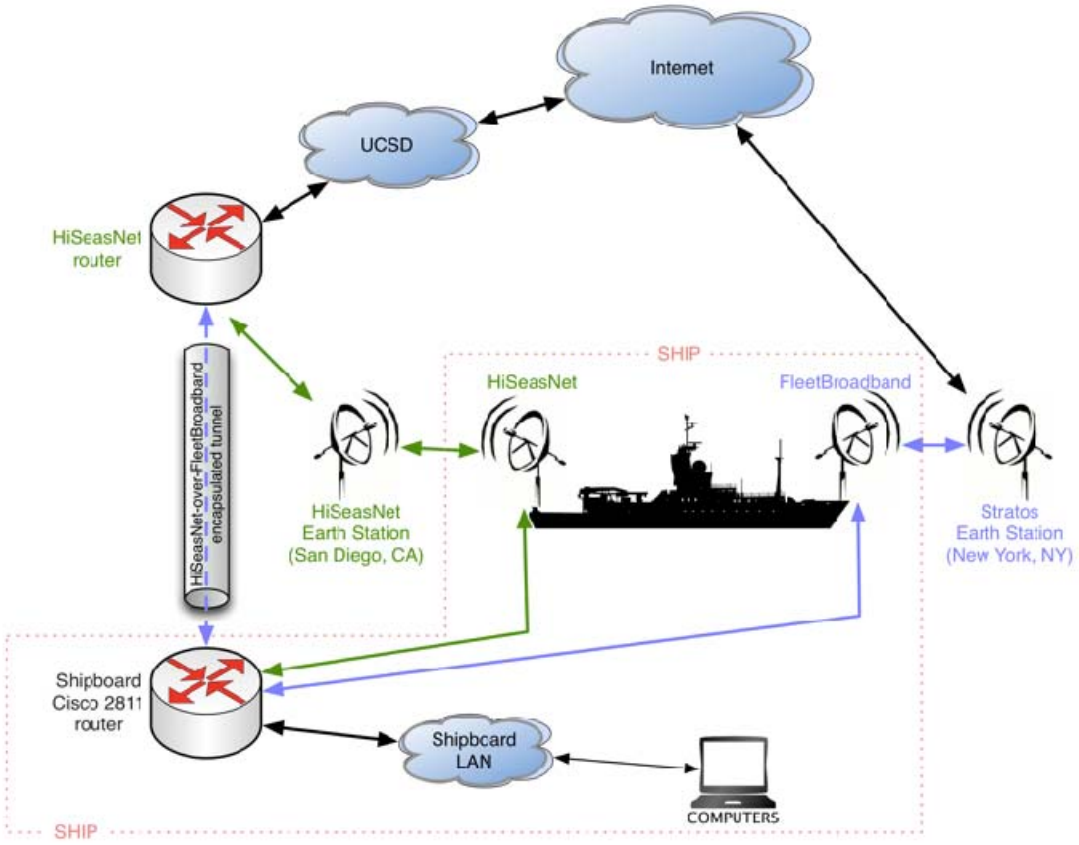
R/V NEW HORIZON, R/V SPROUL
BEST PRACTICES EXAMPLES

INTERNET CONNECTICITY

The R/V NEW HORIZON has both HighSeasNet and FleetBroadband capabilities. The Tech group has designed and installed a router system which transitions seamlessly between the two services in the event a connection is lost. The switching between HighSeasNet and FleetBroadband is unnoticed by the user. The R/V SPROUL has a similar router system that provides seamless transition between the vessel's FleetBroadband and cellular modem.



ENGINE ALARM AND OVERSPEED TESTING CONTROLS

The R/V NEW HORIZON has an Automatic Engine Control system by Engineering Concepts Unlimited (ECU) which automatically cranks, starts, and monitors both port and starboard main engines. The system is designed to shut the engines down in the event of overcrank, overspeed, high water temperature, and low oil pressure. The system also allows testing of the engine overspeed trip at 85% of RPM to prevent damage to the engine during testing.

WINCH MONITORING SYSTEM

Both the R/V NEW HORIZON and R/V SPROUL have a lab view based Data Acquisition System that is interfaced with the newly installed LCI 90i winch monitoring system. The data acquisition system receives and logs data directly from the LCI 90i and displays tension, payout, line speed, and provides a line tension trending graph to capture maximum and minimum tensions. This data can be accessed in real time from any computer terminal on the data acquisition system. The R/V NEW HORIZON has a computer terminal inside the winch control station that can be used in conjunction with the LCI 90i display screen.