

Smart Ship Hub Digital Pte Ltd



Smart Ship Hub Remote for Condition Monitoring & Performance Diagnostics

Introduction

- **High frequency (HF) data** as well as legacy noon report based on **vessel performance** platform aimed at Machinery condition, Hull Condition, Fuel performance, Decarbonization advisory.
- **HF data driven voyage** performance: start of voyage plan, weather routing & advisory, ETA management, charter party compliance and end of voyage reporting , operator dashboard.
- **Performance center:** leveraging power of HF data (400 – 4000+ parameters), Big data analytics, ML algorithms, AR VR systems to identify equipment wear and tear, advance alerts, performance diagnostics reducing vessel downtime by up to 30%, saving in PMS by up to 15 %, saving in fuel by up to 5%.
- **Low-cost HF data** from ships enabling Ship to shore and shore to ship for fleet optimization.

Product Features & Functionalities



Customer segment: Ship Owners, Ship Operators, Charter Parties

Contact information

1. Required: Joy Basu, j.basu@smartshiphub.com
2. Optional: Ankit Sahoo, a.sahoo@smartshiphub.com (customer success)

www.smartshiphub.com

Smart Ship Hub Digital Pte Ltd



Smart Ship© Hub Remote

Digital Platform Providing “Single Source of Truth”

Smart Ship Hub DX platform for Remote Vessel & Fleet management.

- Predictive diagnostics
- Condition & health monitoring
- Vessel & Voyage efficiency
- On demand cloud services
- Higher vessel reliability
- Remote maintenance
- Charter party compliance
- Remote survey, inspection

<p>DECISION MAKING Savings through auto claims settlement, Insurance premium , PMS procurement. Remote Video based maintenance & Remote survey</p>	<p>VALUE STATEMENT</p> <div style="text-align: center;"> <p>Up to 15% savings in PMS, Maintenance routine</p> </div>
<p>MACHINERY CONDITION Savings through On- demand maintenance alert based on live machinery data. Predictive diagnostics leading to deferred maintenance & condition based procurement</p>	<div style="text-align: center;"> <p>Up to 5 % cost savings on fuel consumption</p> </div>
<p>RELIABILITY 30% lesser downtime with performance advisory & timely actions</p>	<div style="text-align: center;"> <p>Up to 33 % savings through remote video</p> </div>
<p>CHARTER PARTY 100% compliance update on ETA , Consumption, Vessel Speed vis-a-vis weather, route, laden condition</p>	

Smart Ship Hub Value Proposition

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Smart Ship© Hub Remote for Condition & Health Monitoring

ME T/C Lubrication System

- ★ Failure of lubricating pump
- ★ Piping leakage

ME & Shifting System

- ★ Bearings condition
- ★ Stern tube bearing temperature, shaft bearing temperature

Under Piston Scavenge Temperature

- ★ Low compression pressure

Flowmeter Clogged with Slush

- ★ Advanced data analytics detected the anomaly

Hydraulic Pressure of Deck Crane

- ★ Smart alerts detected gradual decrease in hydraulic pressure
- ★ Return oil filter found choked with sludge

