

CONTAINER LOSS PREVENTION

Voyage Insights / by Ascenz Marorka

Identify containers losses risks at sea

Container Loss Prevention extends Voyage Insights with voyage-specific lashing risk assessment. Combining advanced seakeeping models, vessel response calculations and weather-aware routing, it identifies container stacks at risk and improves cargo safety at sea.





Weather-Aware Container Lashing Risk Assessment

According to World Shipping Council estimates, around 1,500 containers are lost at sea each year, with an average cargo value of USD 75,000 per container. For a 20,000 TEU vessel, insurance costs alone can reach around USD 15,000 per year.

Container Loss Prevention calculates lashing forces along the approved passage plan using forecasted weather, ocean conditions and vessel response rather than statistical assumptions, enabling crews and operators to identify at-risk container stacks before safety limits are exceeded.

Key Features

- **Voyage-specific lashing forces assessment:** Calculates lashing forces based on forecasted conditions along the passage plan.
- **Container stacks risks identification:** Visualises legs where predicted loads exceed lashing limits.
- **Approved passage plan reassessment:** Assists users in reassessing lashing risk following passage plan changes.
- **Weather-aware risk visualisation:** Displays lashing risks throughout voyage length.
- **Native Voyage Insights integration:** Leverages voyage optimisation, weather forecasting and seakeeping capabilities within a single workflow.

Key Benefits

- **Reduced risk of container losses:** Identifies excessive loads.
- **Safer voyage execution:** Supports route and speed adjustments based on anticipated container securing risks.
- **Greater confidence in cargo securing:** Moves beyond statistical assumptions with voyage-specific risk assessment.
- **Improved operational decision-making:** Provides crews and shore teams with early visibility into container stack vulnerabilities.
- **Lower operational and insurance costs:** Reduces exposure to cargo damage, container losses and their associated financial impact.

Powered by Voyage Insights / by Ascenz Marorka

Container Loss Prevention builds on Voyage Insights' weather-aware routing, seakeeping models and voyage optimisation capabilities. By combining vessel response prediction with advanced weather and ocean forecasting, it delivers voyage-specific lashing risk assessment that goes beyond conventional statistical approaches.

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