CASP for RORO

## Stowage Planning System for Car Carrier Ship

CASP for RORO is a system that allows the management of data necessary for stowage planning and cargo handling for car carrier ships (PCC/PCTC) in a cloud-based web environment. Users can directly define or manage cargo types and classifications, and perform various tasks such as cargo booking management, vessel voyage management, allocation of loading positions, and management of re-handled cargo. Additionally, through a web browser, users can formulate stowage plans and monitor results in real-time without the need for separate program installation, and they can manage the entire process, including reporting and printing results.

Pure Car Carrier(PCC)
Pure Car & Truck Carrier(PCTC)

CASP for RORO

✓ Accurate allocation and utilization of space through structural definition based on ship drawings

✓ Providing user-friendly graphical UI for convenient cargo arrangement
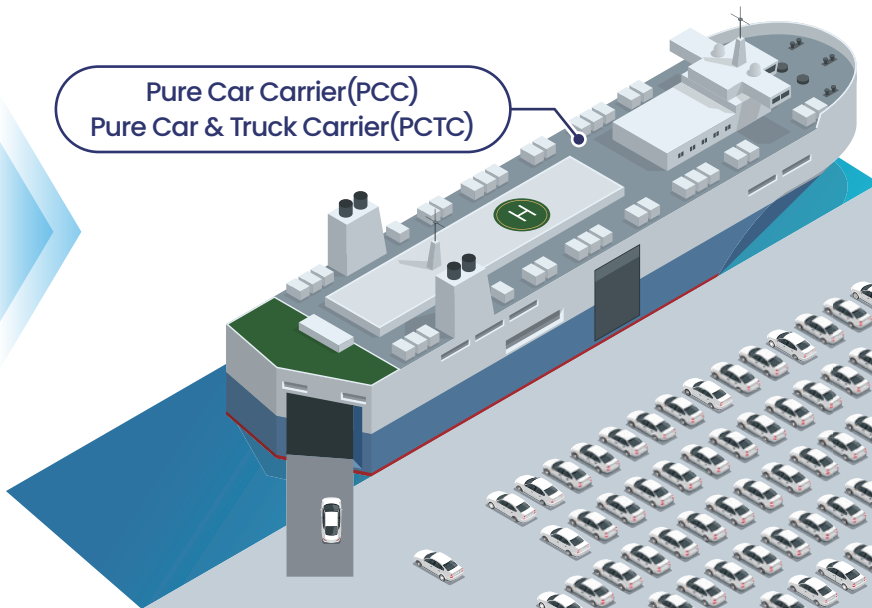
SYSTEM BENEFIT

Voyage control and monitoring of cargo booking

▶ Monitor shipping schedule
▶ Provide ETA (Estimated Time of Arrival) data
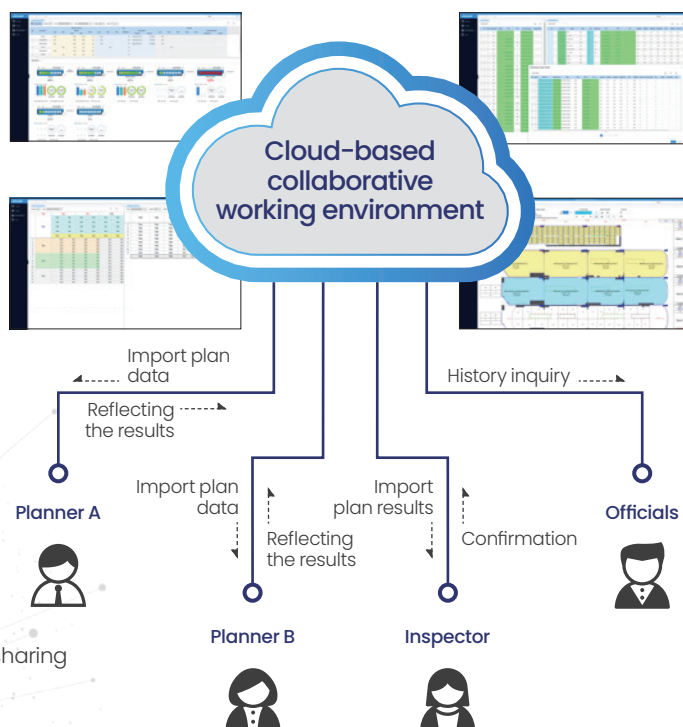▶ Monitor cargo booking status by POA in real-time

Stowage plan by user-friendly GUI

▶ Fast stowage plan via automatic planning system
▶ Optimized cargo placement considering height of deck
▶ Stowage plan for loading and discharging considering flow of movement
▶ Easy check of layout and occupancy via graphical aids

Stowage planning and operation for loading & discharging by an integrated operating environment

▶ Save and share planner's ship planning version
▶ Cooperate via internet with no need of system installation or file sharing
▶ Cross-check and review planned data by users
▶ Ship planning based on POA(Port of Arrival)
▶ Real-time planning combined with data from the previous POD(Port of Discharge)

Cloud-based collaborative working environment

Import plan data

Reflecting the results

History inquiry

Planner A

Import plan data

Import plan results

Confirmation

Officials

Reflecting the results

Planner B

**Inspector**

TOTAL SOFT BANK LTD.

KEY FUNCTIONS

The system provides an integrated environment for managing cargo from stowage planning to loading/discharging operation. Users can take advantage of various useful functions such as cargo data management and a visual GUI to automatically allocate cargo to optimal positions, and promptly review and manage data of space utilization within the vessel.
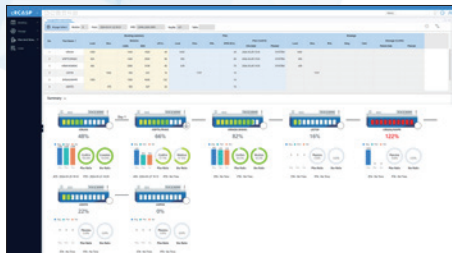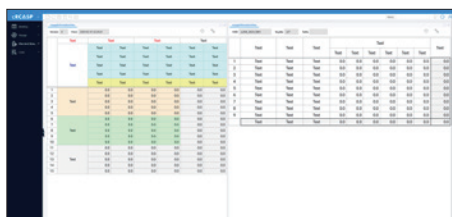

Voyage Inquiry & Monitoring
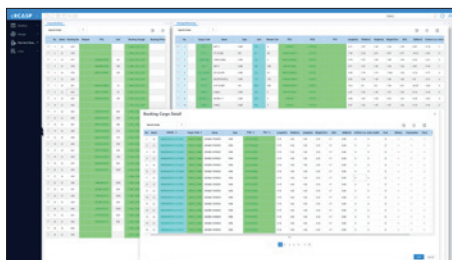
Cargo Booking & Grouping
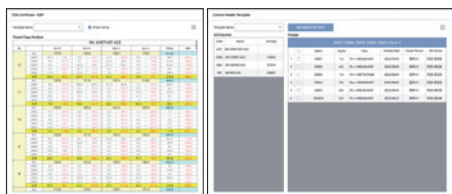
Onboard Stowage Capacity Analysis

Cargo Stowage Planning

Report

CODE MANAGEMENT
- Port : Country Code, Port Code, Name, Etc.
- Maritime Route : Port, Code, Name, Etc.
- Shipping Company : Code, Name, Etc.
- Voyage : Number, Vessel Code, Lane Code, Etc.
- Cago : ID, Name, Maker, Driver's Seat, Length, Width, Height, Weight, Etc.

PREDEFINE
- Vessel definition for stowage plan
- Define constraints based on cargo data
- Define of cargo area in symbol form
- Calculation of loading area per cargo based on symbol usage volume

BOOKING LIST MANAGEMENT
- Register and inquiry for booking lists per voyage
- Input cargo data
- Booking version management

DECK STRUCTURE SETTING
- Lamp load display
- Changing the Lifting Deck's height

BOOKING GROUPING
- Search for booking record
- Grouping per height of deck, POL/POD etc.
- User-defined cargo grouping

SHIP STABILITY
- Stability inquiry based on drainage volume and draft data
- Inquiry into the impact caused by wind
- Inquiry into shear force and bending moment

STOWAGE PLANNING
- Manual and Automatic planning
- Make a booking plan
- Cargo abstraction area
- Action on various work processes
- Optimization of stowage position using search techniques
- Rehandling (Cargo rehandling)
- Change of destination (COD)
- Unloading handling & Route grasp
- Panel plan

CARGO HANDLING VALIDATION
- Safety distance: Front, Rear, Left, Right
- POD : Arbitrary/Specific POD
- Cargo : Driver's seat, Height, Weight, Cargo direction, Planned direction, Specific cargo

REPORT
- Summary of cargo quantity data
- Specific loading/Discharging ports
- Cargo loading/Discharging
- Damage & Exception (Damaged and exceptional cargo)
- Display method by area or cargo type
- Statistical analysis screens
- Export to Excel files

USER DEFINE
- Provisioning per a user group
- Setting for limit on specific functions
- Display options
- Grid data filtering

66-39, Bansong-ro 513beon-gil, Haeundae-gu, Busan, Korea, 48002   www.tsb.co.kr   +82 70 4733 1000   +82 51 955 3001   inquiry@tsb.co.kr

About TSB TSB is a maritime logistics software provider founded in 1988. Starting from software for vessels, shipping lines, container/multi-purpose/roro/inland terminals and warehouse, port community to simulators, TSB provides integrated total solution in the port and maritime business. TSB's solutions have been selected by over 100 terminals and 30 major shipping lines in the world. The network in 11 key locations in the globe help TSB's existing and/or potential clients easily reach to TSB for any kind of service.

TOTAL SOFT BANK LTD.