



The SMART Solution for the
Container Terminal Industry!

Realtime Business Solutions

TOPS Expert





Customer Benefits

More Efficiency

TOPS Expert introduces a new and holistic optimization approach for the entire terminal, analyzing all available data on a true real-time basis.

Increasing Profit

TOPS Expert resource optimization and reverse engineering techniques results in significant cost savings for the terminal operator.

Increasing Customer Service

TOPS Expert offers the best, most capable and user-friendly tools enabling terminal operators to satisfy customer requirements, while optimizing the use of their resources.

Introducing BIG DATA Analysis

TOPS Expert manages BIG DATA for the new automated berth planning, ensuring optimum mooring positions for all vessels at any and the same time. BIG DATA is making best use of RBS unique true realtime architecture.

New Automated Search

TOPS Expert comes with a new comprehensive and valuable search function, which considers all available sources of information and delivers results faster than ever. In a blink of an eye, the user finds what he/she needs.

Quicker Navigation

TOPS Expert brings a completely new design of the screens, which is more easy to use, and presents the most relevant information in a more concentrated and easy to read layout.

Easy Integration

With standard interfaces to industry solutions, 3rd party systems and in-house applications. Easy to use report designed to configure the terminal reporting.

Realtime Business Solutions

Experience and Industry Knowledge

Over years, based on the large amount of container movements across continents, the container terminal industry is continuously developing and undergoes constant change. Terminal capacity is expanding, terminal equipment is increasingly getting semi-automated, fully-automated, limited yard space and vessels are getting bigger and bigger (18,000 TEU and beyond).

Meeting shipping line demand and adhere to vessel ETA/ETD and promised handling rates, competitiveness, efficiency, workforces and cost cutting are major factors and challenges to terminal to cope in day-to-day competitive business.

TOS Solution

TOS, information system and communication technology (IT) and appropriate optimization methods are key to run terminals; therefore, the new TOPS-Expert is created! IT in terminals today is more than documentation, it is about information and decision taking.

Global Company

RBS is a global TOS company with offices around the world from Asia and Latin America to Europe, Middle East and Africa (EMEA).

Implementation and Project Experts

Expert project managers and operational experts will be managing the project from A-Z. This will bring operational expertise gather worldwide to the project. This allows a good implementation project as well as bringing best practices to your terminal. All this with the ability to deliver IT turn-key projects.

TOPS Expert

TOPO Expert

Foundation and Documentation System

TOPS KPI

KPI Web Dashboard

TOPX Expert

Operations and Planning System

TOPS SimOne

Operations Simulation Module

Convincing Highlights

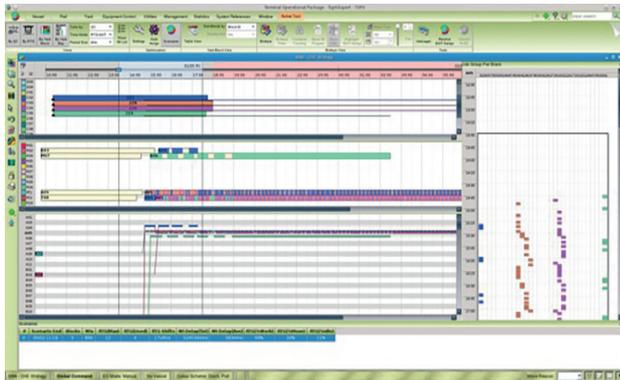
Smart algorithms automate the berth planning enhancing the future operation from the beginning of the planning process to the execution. Integrated **automated crane and vessel planning** that directly links into the execution. Consolidated true **real-time equipment monitoring** and dispatching.

The TOS is completed with an advanced foundation system allowing **easy data handling, EDI integration and advanced reporting** facilities. The new reporting facility allows the use to directly create **pivot-like charts** in the TOS and also **design own reports** using the TOS data. Also data integration through a **common data interface** will be easy to handle.

Equipment Strategy Management

TOPS Expert comes with a very valuable Management Monitoring consisting of a major new feature for setting up **CHE strategies** enabling terminals to **optimize the equipment** and to run more cost effective operations. The new feature assists the terminal staff in determining the number of yard CHEs required for any single operation (vessel, rail, yard, truck) or combined operations according to the planned work load.

TOPS Expert enables terminals to actually foresee what is going to happen during operations, avoiding unexpected events and improving speed, reducing turnaround times and increasing quality and service levels, while reducing the need for interventions and exception handling.



New Reporting Tool

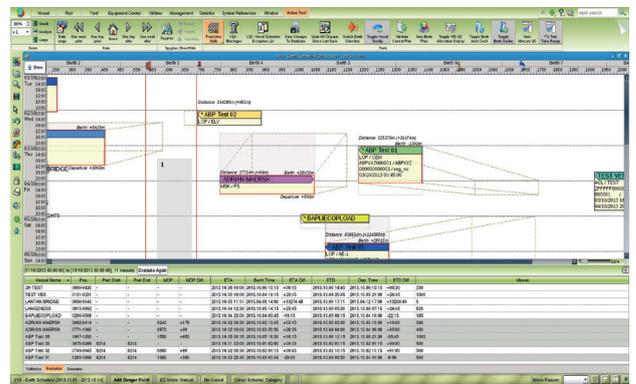
TOPS Expert has an integrated flexible report designer providing a wide scope of charts and Pivot tables in various types – displaying statistics and performance indicators of all operational areas such as vessel, yard, gate and rail as well as all kinds of equipment – fully matching internal information demand as well as individual reporting requirements of terminal customers.

The PDF capable reporting designer is integrated into the TOS, and has a standard export interface to programs such as MS Excel.

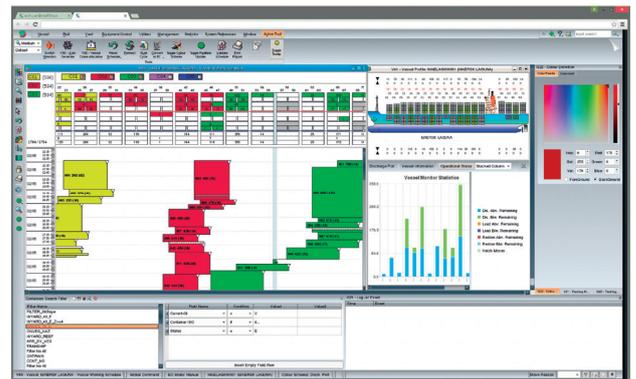
Automated Berth Planning

A new automated berth planning feature is included in the TOPX Expert version, setting the standard for efficient operations. New and smart algorithms automate the berth planning, enhancing the future operation from the beginning of the planning process down to the actual execution. This unique automated process, as well as the new smart algorithms, uses all available data, such as estimated discharge distances, location of load cargo, and many more to calculate the ideal mooring position considering the **complete berthing scenario**.

Berthing decisions are based on **BIG DATA**, smart calculations and brilliant visualization, making the tasks of your planners easy, effective and efficient. With the option to **play scenarios** and compare before taking a decision, it will bring the operations decision to another level.



Highly sophisticated, practice proven algorithms, together with the unique RBS in-memory architecture, are the basis for true berth optimization, anticipating yard strategy, making berth planning more efficient and allowing an optimized equipment control.



Interfaces

TOPS Expert offers a full suite of terminal management capabilities, including various interfaces to e.g. accounting and invoicing systems, gate operation systems (GOS), reefer monitoring systems, Position Detections Systems (GPS, RFID...) as well as radio data terminals and container weighing systems.

RBS – Container Handling Specialists

Realtime Business Solutions (RBS) specializes in solutions for the Container Handling Industry. The company has many years' experience in software development and implementation as well as project management and port consultancy and has worked exclusively in the Container Handling Industry since 1991. During this time RBS provided and implemented advanced and highly specific State of the Art Software and Control Systems for the Container Handling Industry.

RBS has carried out the installation of TOPS software to many Container Handling Terminals in Australia, Egypt, Germany, Indonesia, Italy, France, Lithuania, Brazil, Japan, New Zealand, Panama, Romania, Togo, Taiwan and Vietnam. In total the terminals are handling an overall volume of more than 28 million TEUs with TOPS.

Throughout many years, RBS was listening to its customers and has spent a lot of effort and investment in Research and Development to create the new TOPS Expert, in order to fulfil the customers growing demands and future requirements.



Terminal Solutions Around the Globe

APM TERMINALS

APM Terminals Romania SRL, Romania
APM Terminals Japan K.K., Japan

DP World and Surabaya Port Authority

TPS Terminal Petikemas, Indonesia

EUROGATE

CTH Container Terminal Hamburg, Germany

Evergreen Marine Corporation

Container Terminal No. 4, Taiwan
Container Terminal No. 5, Taiwan
TCT Taranto Container Terminal, Italy

Pacific National

MIST MacArthur Intermodal Shipping Terminal, Australia

Pelindo III

TTL Terminal Teluk Lamong, Indonesia
PKS Terminal Petikemas Semarang, Indonesia

Saigon New Port (SNP)

Tan Cang – Cat Lai Terminal, Vietnam
Tan Cang – Cai Mep Terminal 2, Vietnam
Tan Cang – Cat Lai Terminal (Depot), Vietnam
TCIT Tan Cang – Cai Mep International Terminal, Vietnam
Tan Cang – Cai Mep Terminal 3, Vietnam

Terminal Investment Limited (TIL)

Klaipedos Smelte, Lithuania
Seayard Container Terminal, France
BTP Brasil Terminal Portuario, Brasil
LCT Lomé Container Terminal, Togo

... and many more.

**Excited to Learn how You will Benefit from our Solutions?
Contact us!**

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