



The proven TOS now as Cloud Solution!
Benefit from Pay as You use –
No Upfront Investment in Licenses

Realtime Business Solutions

TOPS Expert Cloud





Bringing the TOS Online seems to be a Hard Task?

Benefit from TOPS Expert Cloud

You will get a full terminal operations system with advanced features. It will support your complete processes from EDI, data management to planning and execution.

Besides this you will benefit from the cloud based implementation on:

- No upfront license investments
- No server hardware investments
- Fast implementation rollout projects with expert support from the RBS local partner
- No extensive IT hardware investments neither about IT staff costs to maintain this
- Have the advantage of being quick to deploy and maintain the IT administrative burden low
- Do not need to pay attention to software updates or worry about upgrade your IT infrastructure
- Data availability is not an issue anymore

Elasticity is also a valuable asset of cloud services which are less expensive and above all more scalable than locally installed enterprise systems. Required resources are provided on demand and in case of increasing demands capacity and performance can be scaled - grow with your business. Don't worry about oversized hardware and server farms on-site to be managed.

The new cloud solution will **bring down significantly your necessary invests (CAPEX)** and will come with a **pay-by-use model** in your operational costs (OPEX). You will only pay the monthly fee based on the TEU throughput of your terminal.

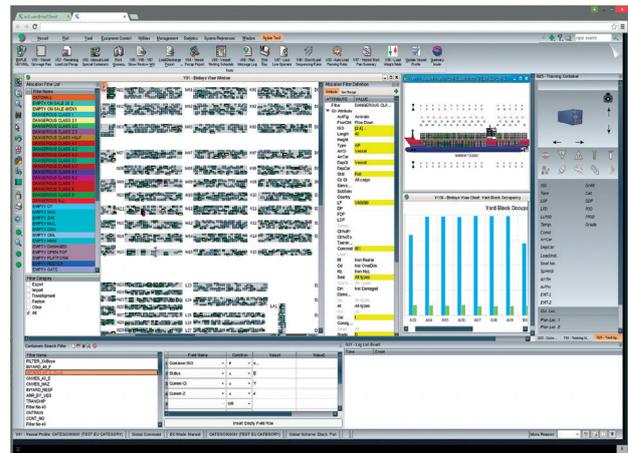
You can run TOPX Expert Cloud via Internet connection and browser from anywhere at any time. So benefit from a ready to use TOS that only needs to be configured to your processes.

RBS Webshop for Container Terminal IT Solutions

Order what you need by just selecting options according to your needs. When expanding or changing your terminal, you can add more modules.

Cloud solutions are in particular interesting for small but fast growing terminals by enabling them to use the full features without upfront license investment.

Option to convert the cloud solution to an on-premises TOPS Expert version with RBS.



Get direct contact to the dedicated local partners to discuss the rollout project and configure the **TOPS Expert Cloud** to your processes and your demands. Have expert training on the TOS solution from RBS local office.

The local partner in the region supports you with expertise on the project, on definition and configuration of the terminal business processes and gives operational guidance.

TOPX Expert Cloud to take you to the next level of TOS with a small invest. Benefit from TOPS Expert in the Cloud as the SaaS (Software as a Service) model.

TOPS Expert Cloud

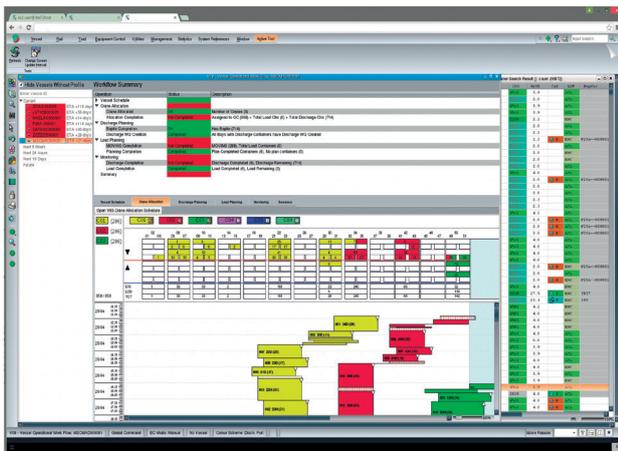
TOPX Expert Cloud

TOPX Expert Cloud is the true real-time graphical container planning, monitoring and control system. It allows you to manage and control all aspects of your operations. TOPX Expert Cloud automatically manages the storage of containers in the terminal on their way to their final destination, minimizing the number of re-handling moves and facilitating the fast and easy retrieval of containers.

TOPX Expert Cloud supports the operational areas Vessel Management, Rail Management, Equipment Control and Yard/Truck Management. Here it supplies all the advanced features a “grown up” TOS is supposed to have from berth control, automated planning to equipment dispatching and monitoring.

It supplies you with smart algorithms to automate planning processes and support your operational decisions.

TOPX Expert Cloud is your known planning and operations system based in a cloud to always supply you with the computing power necessary.



TOPO Expert Cloud

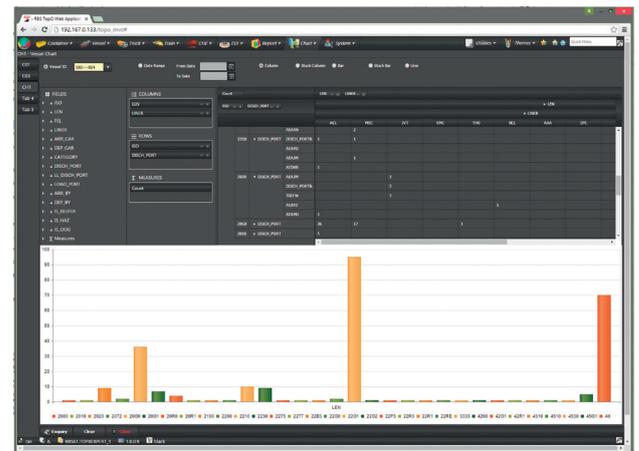
The TOPO Expert Cloud package is the terminal foundation system. It supplies the terminal with all possibilities to automatically receive and manually manipulate information. It manages all your required information from EDI and manual input to reporting internally and to the customer.

All information is shared within the whole TOPS package between TOPO and TOPX. All TOPS modules are totally integrated into TOPS, in order to support a seamless operation process at the terminal from the foundation module to the graphical system.

The TOPO system has an easy to use, intuitive GUI that is very familiar to users of MS Windows. It supplies many standard Windows features – such as exporting every list from the system on-the-fly to Excel or HTML.

The TOPO solution comes with two additional modules:

- TOPO EDI Server – handling all EDI traffic
- TOPO Report Server – handling all scheduled reporting from the system



In the Cloud – the Only True Real Time Solution on the Market

The TOPS Expert Cloud package is the most advanced package available to the container handling industry today. If you are a small to medium size terminal the TOPS Cloud solution will bring a full state-of-the-art TOS to your terminal environment. TOPS Expert Cloud is the solution of the future, available now here for everyone. Get your full TOS in a browser on-demand, wherever you need it.

The overall TOPS package includes the components

- TOPX (operation system) and
- TOPO (foundation system)

and is designed from the full operational spectrum. With TOPS the terminals can identify the most critical parts of the operations, simulate them and resolve issues to accomplish complex operational tasks in a simple manner.

Using smart algorithms to automate the berth planning enhances the future operation from the beginning of the planning process to the execution. This unique automated process and the intelligent algorithms use all available data such as estimated discharge distances, location of load cargo. Berthing decision are based on Big Data, smart calculations and brilliant visualization, making the tasks of your planners effective and efficient.

TOPS Expert Cloud uses the overall package with the TOPX and the TOPO components providing their services from the cloud. Terminals benefit from the whole scope of features – from operational and planning to the foundation functions – without upfront license cost and IT infrastructure cost. Access TOS at anytime, anywhere.

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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