
Operatus™



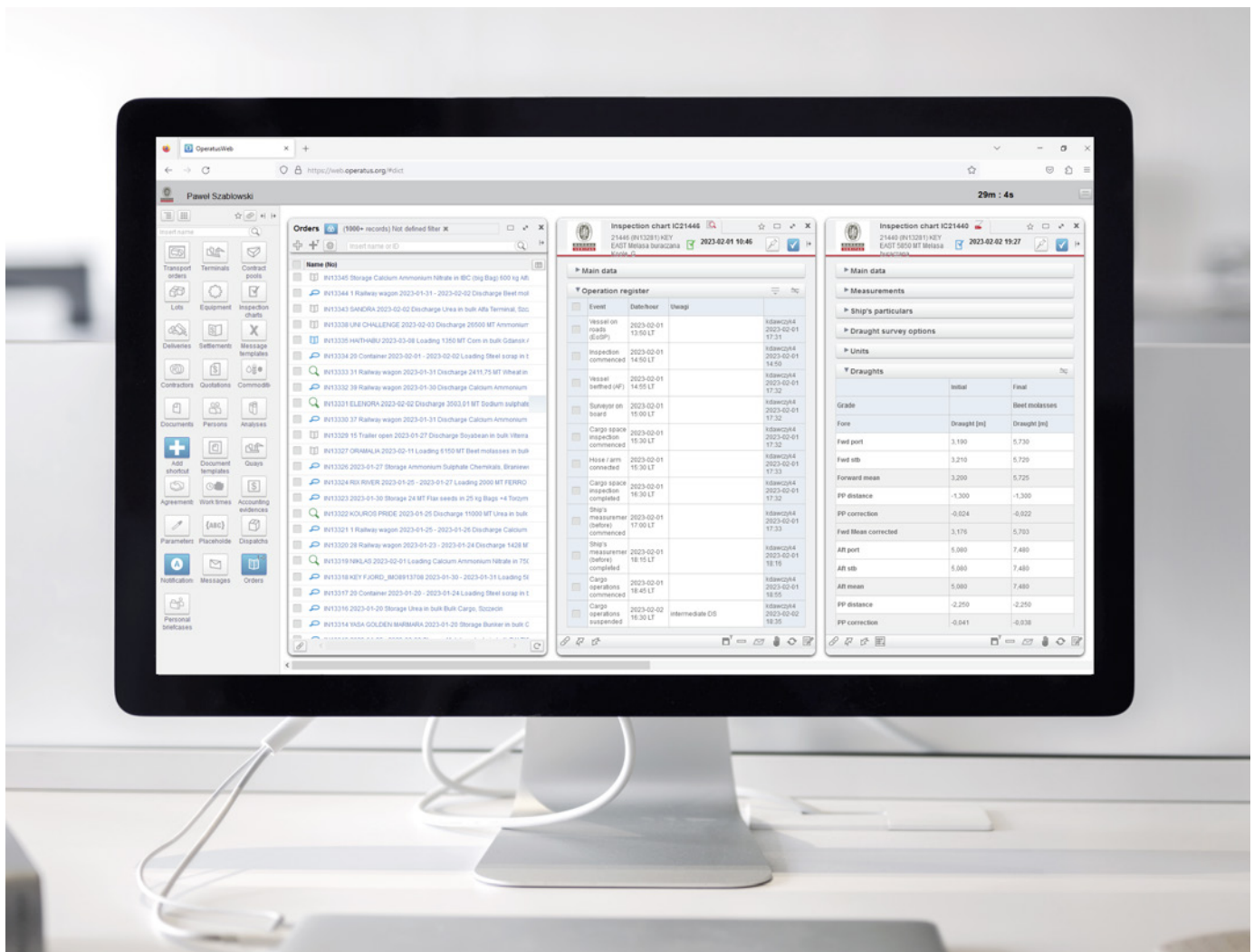
COMPLETE **CARGO INSPECTION TOOL**



Operatus is a recently acquired by Bureau Veritas Polska, high-performance web application, created and operating in the Java Enterprise environment and based on the relational (SQL) database. GWT and REACT technologies are responsible for user interfaces.

It is a multi-module system to support parties involved in trade of goods, especially focused on independent inspection. Additionally, the inspection body, with use of Operatus, can also offer to its client extensive support in the fields of logistics, warehousing, contract execution and others similar areas, being the integrated modules of the application.

Party using OPERATUS acts entirely as RTE (Real Time Enterprise)



COMPREHENSIVE SOLUTION FOR INSPECTION BODIES

Operatus is an all-in-one cargo inspection platform serving the continuous real-time monitoring of whole inspection process. It offers end to end uninterrupted data flow between nominating client, inspection body and other parties.

A comprehensive set of tools is provided for each participant of the process:

FOR SURVEYOR

Number of electronic inspection charts:

- sampling,
- analyses,
- weighing,
- cleanliness – suitability,
- sealing,
- draught survey,
- Liquids measurements,
- tally & weigh-bridge tally,
- general supervision,
- photo,
- time sheet,

Repository of documents & easy reporting system

Work time registering and monitoring

Laboratory Information Monitoring module,

Integrated e-signature functionality,

Working / fields documents at one push of button

Mobile App under development

FOR BACK-OFFICE OPERATOR

Orders registering and monitoring module:

- commodities and grades
- counterparties and roles
- sale & costs with the profit / loss calculation.
- scope of inspection & e-forms
- documents & notifications
- related e-mails

Automatic and partly automatic creation of certificates

Integrated communication client (e-mails, SMS, couriered samples),

Catalogue of documents with automatic monitoring functionality with unlimited number of templates and endless catalogue of notifications

Quotations, charges, invoices and costs registers areas,

ISO 17020, ISO 17025 accreditation supporting facilities,

Professional data access management with unlimited number of templates of rights (levels of access),

Several hundreds of interactive catalogues

FOR CLIENT

Online Real Time Report

No technical limits,

Unlimited number of users,

No geographic and language limits,

An endless list of integration possibilities (such as SOAP, REST and others),

Export / import facilities (Excel, Word, XML)

Fully customized alerts and notification system with endless list of templates

Module dedicated to client logistics, warehousing, contract execution.

INSPECTION CHARTS

- Sampling chart
- Sealing chart
- Draught survey chart
- Liquid goods measurement chart
- Supervision chart
- Weighing chart
- Weighbridge tally chart
- Tally sheet
- Cleanliness inspection chart
- Photo chart
- Time sheet
- Repositories of documents & document templates



COMMUNICATION

- SMS
- E-mails
- Alerts
- Notifications & templates



OFFERING AND CHARGING

- Prices
- Quotations & offers
- Charges
- Invoices
- Costs



ORDERS



ISO ACCREDITATION SUPPORT

- Documents & templates
- Workplaces
- Trainings
- Authorizations
- Means of personal protection
- Work time registration tool



DATA BASES, REGISTERS, CATALOGUES

- Samples
- Archives of samples
- Sample dispatches
- Seals
- Tests & Analyses
- Parameters
- Reagents
- Methods of tests and inspections
- Pests, weeds & diseases
- Cargoes
- Means of transport: vessels, barges, trucks, wagons,
- Shore and ship's tanks
- Cargo holds
- Warehouses & other storage
- Transshipment & storage terminals
- Load / discharge facilities
- Weighbridges and other weighing facilities
- Berths
- Ports
- Cooperators
- Persons
- Contracts

SURVEYOR

The application offers: various types of electronic inspection forms / charts, serving as an area of recording and monitoring the inspection results, e.g. sampling, weighing, sealing, inspecting of cleanliness, supervision, draught survey, ullage/volume measurements, tally, analyzing, pictures registering, timesheet records keeping etc. PDF reports of various type and content are ready to create with one button push from the particular types of charts (draught survey report, ullage report, sampling report, last cargoes report LCI, weighing report, tally-sheet...). E-signatures can be placed on the document during the PDF creation process.





SAMPLING

Full monitoring of each and every sample from its scheduling up to the expiry date. This also embraces sample delivery process (together with integration with courier system). As soon as the samples are registered, no wrong or mistaken samples can be observed. For every sample all details like sample schemes, seal imprint as well as all details appearing on the label are registered. QR codes used for identification. Labels printed on portable printers. PDF sampling report available. Sampling area is in line with ISO 17020 accreditation requirements.



ANALYSES

The entire analysis process in one place. Full register of samples, methods, tests, results, equipment and reagents. In case of external analyses service an integration with the external LIM system is offered. Module can serve both for on spot / fields analyses as well as fully accredited ones. It contains register and monitoring system of samples, methods, apparatus, tests, results, reagents and everything that is needed for such area of inspection activity.



WEIGHING

Manual registration of weighing results or direct (automatic) transfer from the weighing facility. The chart is linked to the registers of scales (and their expiry dates), warehouses, vessels, holds, compartments, lots. Operatus is also prepared to serve as a direct weighing software for most of weighing devices available on the market.





CLEANLINESS / SUSTAINABILITY

Inspection of vessel holds or cargo tanks, barges, railway cars, trucks, warehouses, installations (load / discharge equipment). The chart is linked to the catalogues of goods (verification of previously transported cargoes), cleaning methods, means of transport, warehouses...



SEALING / UNSEALING

of the vessel's holds, vessel's cargo tanks, barges, railway cars, trucks, warehouses, installation (pipelines, valves). The chart serves as a way of registering the seals and their locations on the particular sealed objects.



DRAUGHT SURVEY

Comprehensive Draught Survey tool. Entire process of the draught survey with the detailed registration of readings and calculations of draughts, ballast and other liquids sounding, as well as all necessary hydrostatic data and final cargo calculation.



LIQUID CARGOES MEASUREMENTS

Ships tank ullage and shore tank volume measurements & calculation functionality, containing measurement records, including ullage / innage readings, cargo temperature, density of cargo, density correction factor and other necessary details. The chart can be linked to the tank calibration catalogue in case the calibration for the particular tanks is available in the system.



TALLY

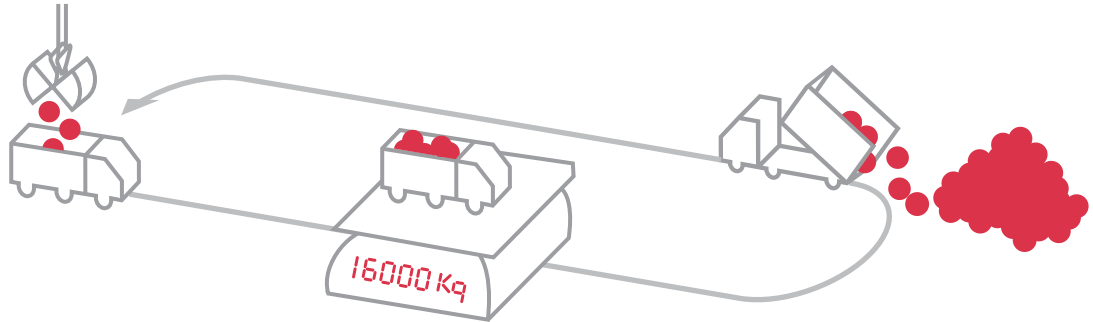
The chart serves as an electronic, half-automatic tallysheet, where every loaded / discharged unit is separately recorded. The offline mode and the tablet with battery of high capacity are the guarantees of an uninterrupted work over the whole shift. A PDF tally report is generated, and document can be countersigned still on spot with use of a built-in (biometric) e-signature.





WEIGHBRIDGE (MEAN OF TRANSPORT) TALLY

The chart is a variation of the Tally chart and helps to register the trucks at the place of their loading or discharge (e.g. alongside the ship). The records are compared in real-time with the weigh-bridge results through which the trucks are obliged to go through.



SUPERVISION

An extremely flexible electronic form, which can serve to register the results of any kind of inspection. To every single record any set of pictures can be separately attached thanks to the functionality that enables taking pictures directly from the chart.



PHOTO REPORT

When using tablets or similar (mobile) devices containing camera module, the pictures are taken directly from the inspection chart. The camera button located on the inspection chart launches the camera applications of the device. The taken picture is registered directly in the chart without the need of copying or transferring from the device resources of the system. Remark: Pictures can be taken from every other inspection chart as well, which makes them related to the particular area of inspection.



TIME LOG

is an electronic form destined for keeping records of any activity over the whole process. The chart can also register the breaks with their reasons, calculate effective time of loading or discharge.



E-SIGNATURE

The PDF reports and any PDF documents both created in the system and imported for other user's resources can be signed with biometric e-signature.



REPOSITORY OF CALIBRATION DATA

Catalogue containing the calibration data of the shore tanks, ships tanks, hydrostatic data and so on, to which the system can refer to at the time of calculating quantity of the cargo in the tank or on board the vessel.



WORKING TIME REGISTER

Required by ISO 17020, guarantees full monitoring of the surveyor's work and activity. Linked with the register of nominations and the inspection charts, it gives a comprehensive picture of what is happening on spot.



DOCUMENTS REPOSITORY & REPORTING FUNCTIONALITY

Place where the final documents (certificates, reports...) are provided to client following few separate stages / statuses (specimen, ready to accept, accepted, signed). The customer can then easily download or share documents or produce a link and send it to their counterparty. An authentication functionality is possible to add in further process of development.

The reporting functionality enables user to produce in a very simple way or just automatically:

E-mail report,

PDF Report

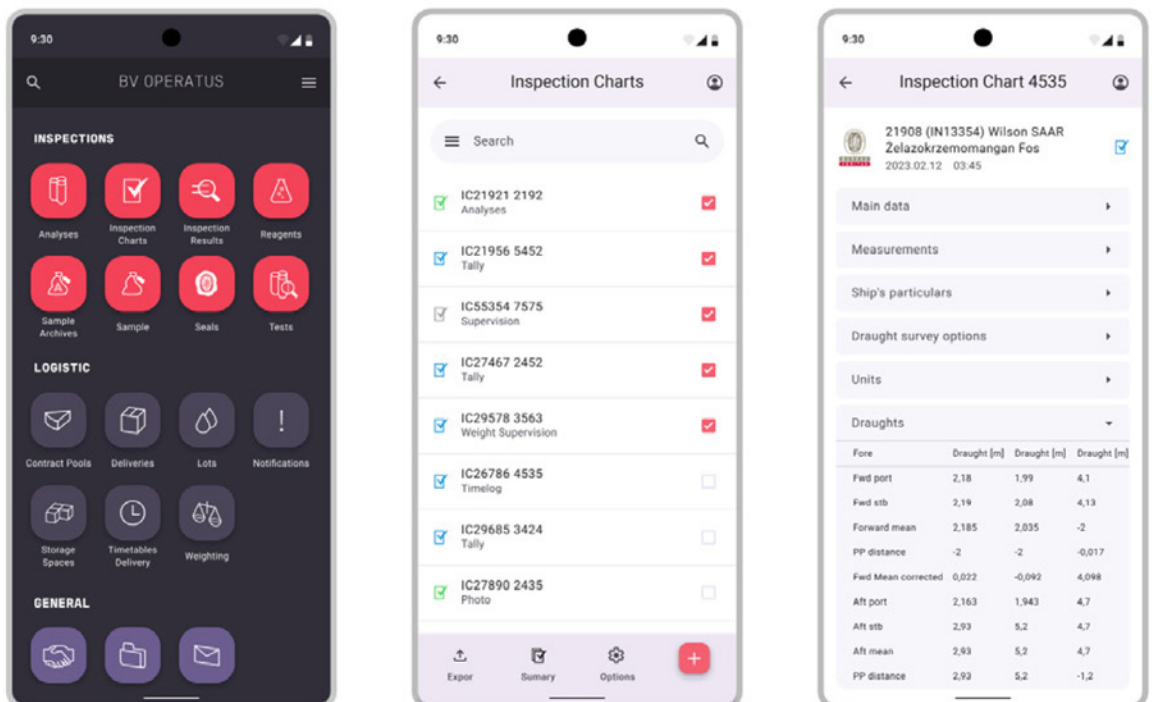
Excel / Word documents

Operatus also provides the functionality that leads to automatic generation of the WWW site called Real Time Inspection Report and representing current inspection results.



NATIVE APPLICATION

Brilliantly developed native application will soon become an indispensable part of the Operatus environment.



BACK-OFFICE OPERATOR



ORDERS

Each separate object is the client nomination for the separate job for an indicated inspection company or office. The orders are linked to the inspection charts, offers, prices, invoices, related emails / SMSes / dispatches... . It also contains profit / loss calculation functionality, documents and notification planning area, cargoes & grades details, detailed scope of service,



AUTHORIZATION

The application offers the multilevel system of access, with no limit in number of levels, which can be dynamically created by users with adequate... level of access.



CATALOGUES

The system contains significant database resources, which are still being developed and which include: templates, companies, persons, agreements, orders, vehicles, ships and other means of transports, countries, places (villages and cities), ports and logistic centres, berths, terminals, warehouses, weighing facilities, handling equipment, goods, documents (standards, procedures...), archives, attachments, parameters, reagents, equipment, workplaces, services... and many many others. There are various mechanisms supporting the use of particular catalogues. Examples:

Verification of standards in the catalogue of documents: Once in a specified period of time, the system automatically checks the validity of standards on the website of their publishers.

Automatic alerts in the catalogue of equipment, notifying about ending calibration validity.



COMMUNICATION

The E-mail, SMS and samples dispatch module is strictly correlated with all other areas of the system. Every incoming or outgoing message can be easily and / or automatically linked to any object in the system (e.g. inspection chart). The courier dispatches are integrated with DHL / TNT / Fedex systems. The user has an option of creating notification templates serving automatic generation of e-mails, SMS and system alerts. The system reads and understands content of incoming SMS, which in standardized form, can be used as command for automatic initialization of some actions.



CERTIFICATES AND REPORT CREATING MODULE

An unlimited list of templates of various types of reports and certificates with the very flexible functionality of creating the documents. Mechanism appears in various places / objects of the system (e.g., inspection charts) enables user to produce PDF document based on data retrieved from the places of creation.



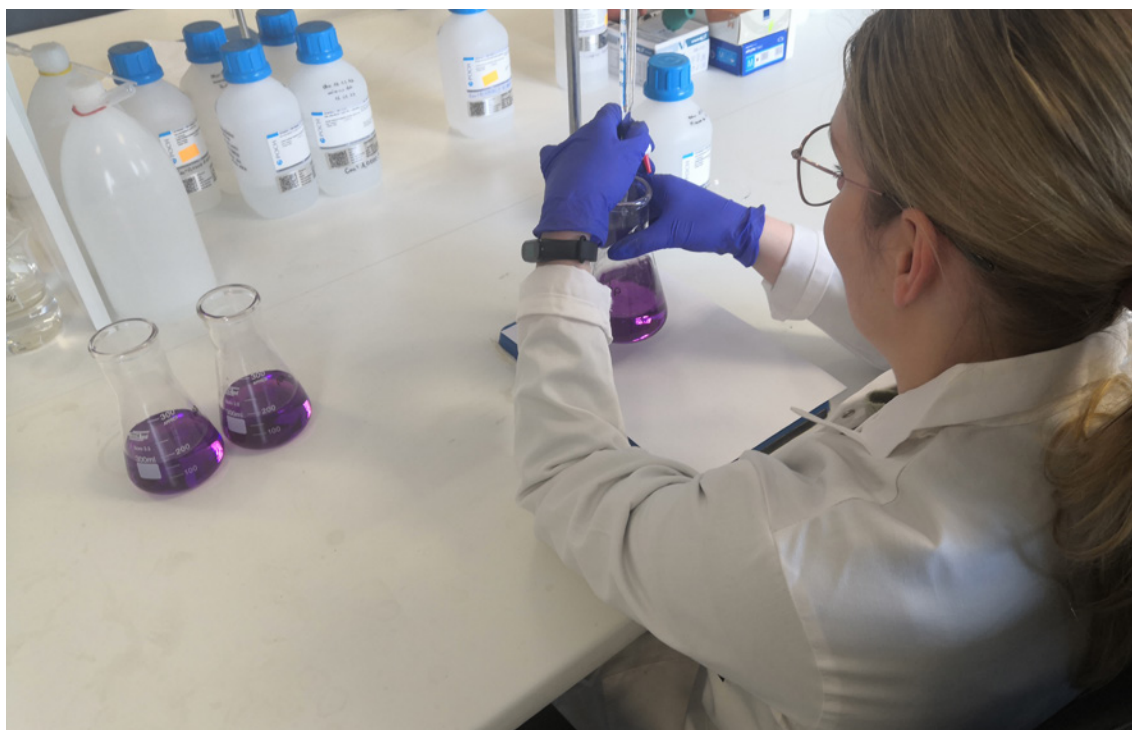
QUOTES, CHARGES, INVOICES AND COSTS REGISTRATION MODULE

Creating an invoice is an (almost) one button push process. When at the stage of creation of the order and later during execution the necessary data / fields are properly filled in, the invoice is created almost automatically on the completion of inspection. The data can be easily transferred to any book-keeping application in form of XML or any other way of integration.



ISO 17020, ISO 17025 ACCREDITATION SUPPORTING FACILITIES

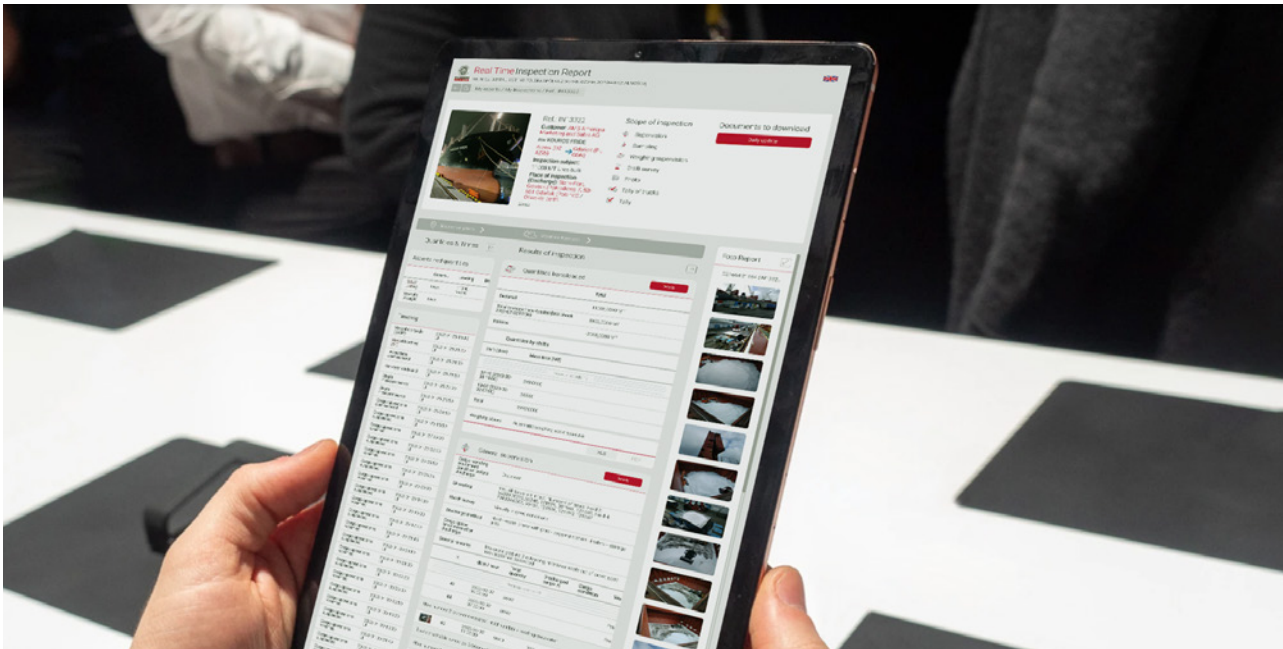
In various parts of the system user can find functionalities supporting the accreditation process, especially in such catalogues as: Methods, Authorizations, Trainings, Documents (standards, procedures), Document verifications, Equipment, Equipment verifications, Workplaces, workplace verifications...



CLIENT

REAL-TIME INSPECTION REPORT

Client using Operatus has permanent access online to current inspection results. Each and every step / result / observation is immediately registered with use of mobile device.



SYSTEM WITHOUT LIMITS

The application can be opened on any kind of device (PC, laptop, tablet, smartphone) with use of almost any of presently used web browsers (Google Chrome, Firefox, Internet Explorer, Opera, Safari...). The data are stored on the remote servers and can be reached by users from any place all over the globe.

The system has no limits with regard to number of users. Current number of them (over 3,5 thousand) can be easily multiplied with no harm to the efficiency of the system.

The system is prepared to handle data in as many languages as the user expects. The data are in majority categorized ('dictionaryed'), which enables them to be automatically translated to the current user's language. The remaining (not 'dictionaries') part of the data (inserted as text) can be also automatically translated by an external translator to which (via API) Operatus is ready to be connected.

B2B INTEGRATION

OPERATUS can be integrated with any already existing external system, application or device. Various technologies are available, depending on preferences and availability, such as SOAP and REST web services, FTP servers and others. The examples of current integrations include:

- Client's and other cooperator's RPE, TMS, WMS and similar systems (e.g. DHL / TNT / Fedex, Microsoft Navision...),
- Analytical equipment (e.g. NIR devices),
- Temperature and humidity monitoring system (in the lab)
- Automatic samplers,
- Weighing facilities
- Communication modems
- Printers (e.g. sample labels printers)
- QR and bar code reading devices
- Digital signatures applications
- E-mail servers



EXPORT

From Operatus system, data can be exported to and imported from Excel and XML. An export to Word file is also in some areas possible (certificates creating module). The PDF file can be created from every object in the system. Simultaneously, there is a wide range of templates of various cargo documents which in PDF format can be generated from various places / objects.

CARGO HANDLING AND STORAGE MONITORING MODULE

An enormous and extremely comprehensive area, full of functionalities automatizing the logistic processes and catalogues like: Contracts, Transport orders, Deliveries, Consignments, Warehouses & storage spaces, Terminals, Weighbridges and other scales, Time slots, Notifications, Transshipments, being either an advantage at the time offering inspection services and/or the source of additional income of inspection company.

Thanks to the subject module, Bureau Veritas, when participating in the logistic process, can offer the IT support to any party involved (Trader, Forwarding, Vessel agent, Stevedore, Vessel owner...).



BENEFITS FOR OPERATUS USERS

Operatus with its multilevel possibilities offers simultaneous solutions for:

FOR SURVEYORS:

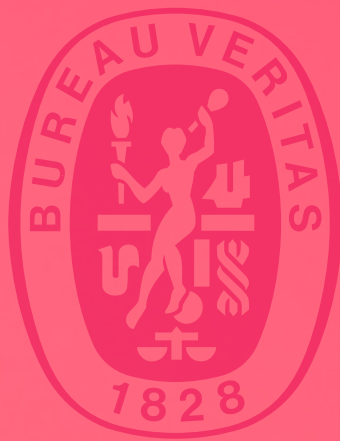
- Technologically advanced solutions
- Uniform standards of work
- Easy and adaptable electronic documents
- Automatically self-supporting e-forms
- All in one place with easy and immediate access (standards, procedures, files, methods, forms...)
- Easy and unquestionable way of proceeding
- Noticeable manpower and costs saving

FOR BACK-OFFICE OPERATOR:

- Easy / one-button push procurement of required documents (reports, certificates...) of any (even most unusual) content / construction
- Clear and immediate access to the inspection results
- Significant restriction of work volume in the office
- Method of execution of orders bringing self- and customers satisfaction

FOR CLIENT:

- Permanent real-time access to the inspection results on any type of device from any place all over the world
- Clear and transparent picture of the situation on spot
- Dedicated Clients' portal with all current and archive files
- E-mail and SMS notification at any stage of the process



BUREAU
VERITAS

