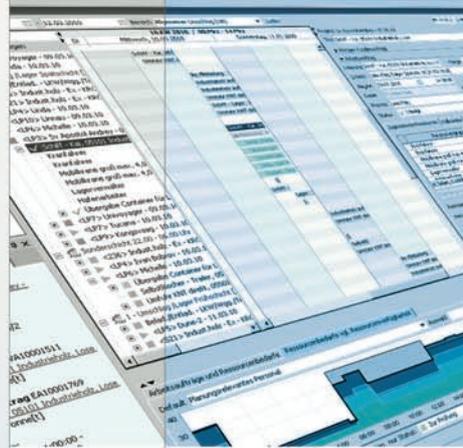
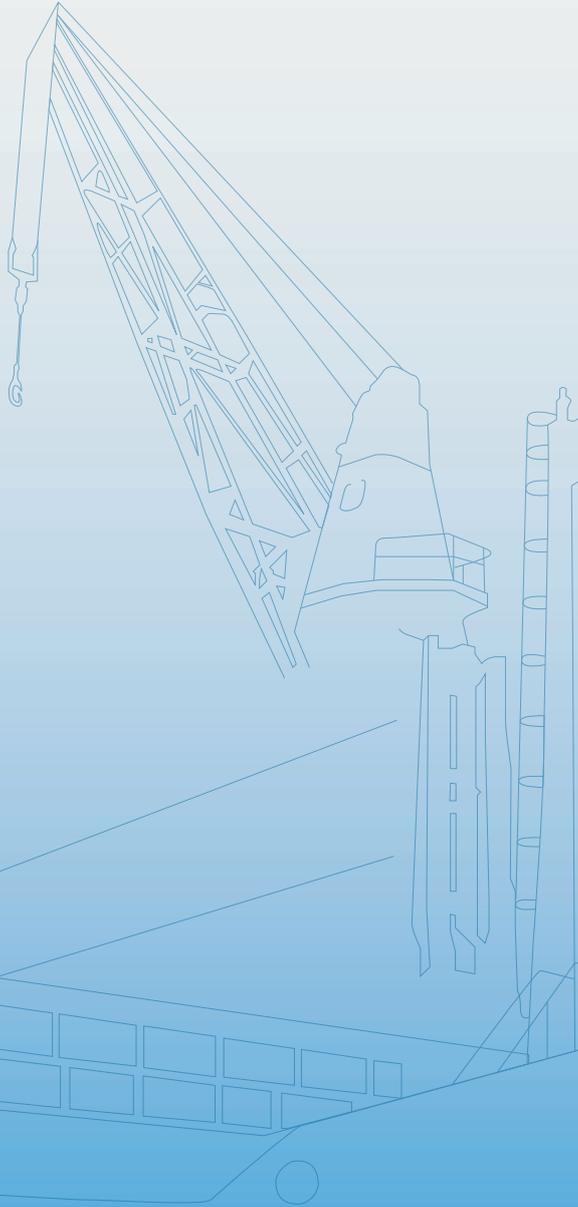


**ALS**

Advanced Logistic System



## Overview

Advanced Logistic System (ALS) is an innovative logistic information system for management, planning and control of complex logistical processes in a port terminal. The system consists of modules which cover a specific activity field.

Advanced Logistic System (ALS) contains continuous functionalities from service calculation over order processing up to invoicing.

Furthermore, ALS possesses special modules for order oriented work and capability planning, means of transportation management and stocks management as well as activity recording.

All enterprise data from all modules can be evaluated with an extensive reporting system and can be displayed in tabular or graphic form.

Free configurable interfaces support the integration of external services as well as automated document exchange with business partners. Thereby, double acquisition of data, media disruptions, time delays and loss of information will be avoided.

The several modules can be combined according to the customers needs. In order to offer our customers an individual solution.



## Planning

### Work and capability planning

- Gross planning of services quantity and resource needs
- Detailed planning of personnel and devices
- Shift management
- ...

## Contracts

- Customer specific arrangements
- Service comprehensive quantity scale
- Automatic addition of ordered amount and revenues
- Accounting agreements
- ...

## Recording

- Movements
- Time
- Efforts (device and human)
- ...

## Stock

### Stock process management

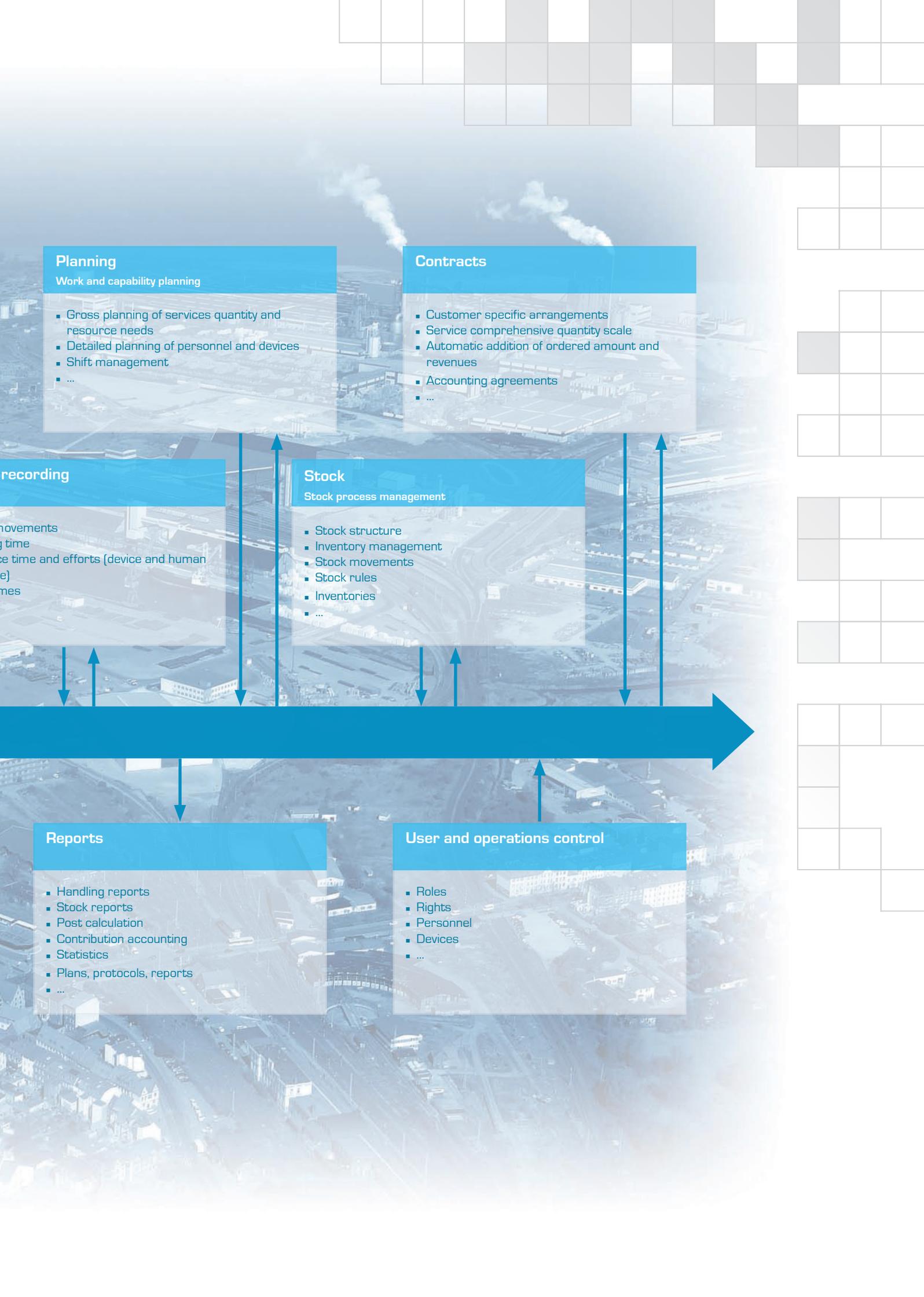
- Stock structure
- Inventory management
- Stock movements
- Stock rules
- Inventories
- ...

## Reports

- Handling reports
- Stock reports
- Post calculation
- Contribution accounting
- Statistics
- Plans, protocols, reports
- ...

## User and operations control

- Roles
- Rights
- Personnel
- Devices
- ...



## Project management

This module contains functions, which concern the control of the order execution as well as the planning and processing of incoming means of transportation in the harbour. This will be managed by projects. Projects are categorised according to the following types:

- means of transportation projects (vessel, railway, freight vehicle )
- stock projects
- other projects

### Features (all project types)

- capture of the process times
- determination of orderer
- allocation of the contracts
- document overview
- document creation

### Means of transportation projects

- capture of the means of transportation data
- capture of plan/actual arrival time and handling time
- editing of route
- planning of berth and rails
- handling protocol

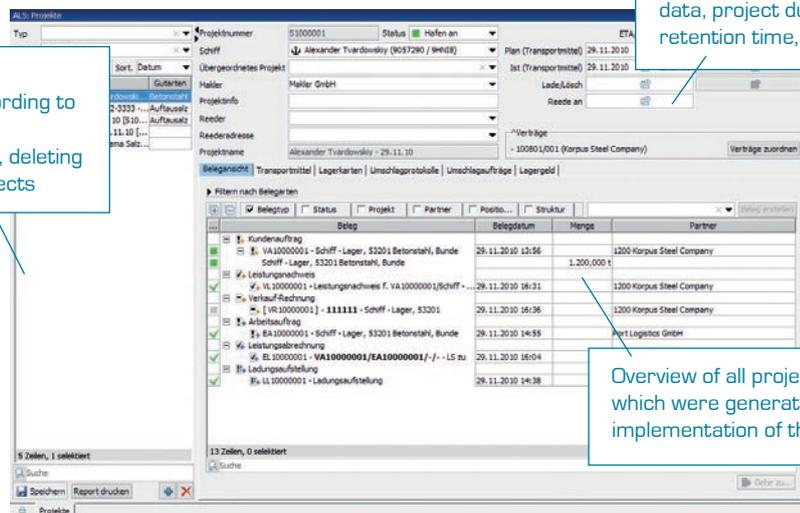
### Stock projects

- enter of the inventory card
- reporting about the stock movement per inventory card
- display of stock inventory
- storage charge accounting

The projects always deliver actual information about the process execution, the project state and the upcoming duties. Therefore a smooth cooperation of several people involved in the process is guaranteed.

- Project overview
- Filter possibilities according to status, project type
- Creating new projects, deleting or saving existing projects

Recording of important project data, project duration, transport retention time, handling time



Belegtyp	Belegdatum	Menge	Partner
Kundenauftrag	29.11.2010 13:56	1200	Korpus Steel Company
VA10000001 - Schiff - Lager, 53201 Betonstahl, Bunde		1.200.000 t	
Verkaufsbuchung	29.11.2010 16:31		1200 Korpus Steel Company
VA10000001 - Leistungsnachweis f. VA10000001/Schiff -	29.11.2010 16:36		1200 Korpus Steel Company
Verkaufsbuchung	29.11.2010 16:36		1200 Korpus Steel Company
Arbeitsauftrag	29.11.2010 14:55		Port Logistics GmbH
EA10000001 - Schiff - Lager, 53201 Betonstahl, Bunde	29.11.2010 16:04		
Verkaufsbuchung	29.11.2010 16:04		
EA10000001 - VA10000001/EA10000001/-/- LS zu	29.11.2010 14:38		
Ladungsaufstellung	29.11.2010 14:38		
EA10000001 - Ladungsaufstellung			

Overview of all project documents, which were generated by implementation of the project

# Invoicing

The module regulates from the order processing to the offer preparation up to the accounting/billing. The single processes of the order management are represented in different documents. These documents contain data, which are necessary for the smooth process execution. There are two types of documents: „invoicing documents“ (sales/purchase) and „process documents“ (goods handling).

## Sales

- Offer
- Order
- Note of sale (delivery)
- Invoice
- Credit note

## Purchase

- Inquiry
- Work order/Purchase order
- Certificate of performance
- Invoice
- Credit note

## Handling

- freight list

Furthermore, this module offers automatic and manual production of invoices about given services or deliveries. This occurs through a takeover of the services, which should be invoiced from performance proofs, notes of delivery and customer orders. In addition the FAS (Financial Accounting System) interface allows a transfer of the booking entry data to different financial accounting programmes.

The screenshot shows the SAP 'AL3: Verkauf Kundenaufträge' (Sales Customer Orders) interface. It features a document header section at the top with fields for status, project, currency, and dates. Below this is a table of document items with columns for description, quantity, unit price, and total price. At the bottom, there is a 'service definition' section with fields for contract, cost center, status, and other details. Three callout boxes are present: 'Overview of document items' points to the table, 'document header' points to the top section, and 'service definition' points to the bottom section.

Doc...	Posi...	Leistung	Text	Menge	E-Preis	Rabatt	Preis
		Schiff - Lager, 53201 Betonst...	Schiff - Lager, 53201 Betonstahl, Bunde	1,200,000	2,50		3,000,00

## Planning

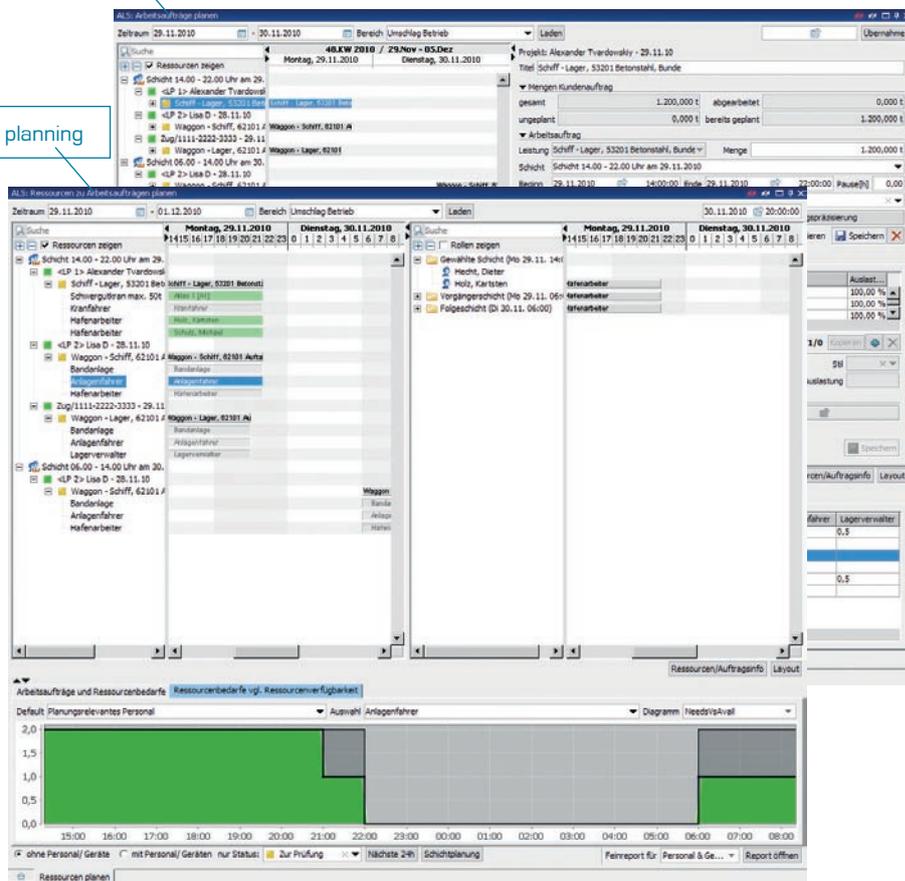
The work and capability planning module contains the planning of the value performance as well as the resource requirements, which are necessary (human resources, devices, material). The module allows a stepwise refinement from gross planning up to the detailed planning.

### Features

- Temporal partitioning of the value performance on the predefined working shift and calculation of the performance amount per shift on the basis of the planned performance
- Automatic determination of the necessary resource requirements
- Generate of work order documents
- Graphical presentation of the temporal classification of the work orders in the Gantt chart
- Graphical presentation of the utilisation overviews for shifts and resource groups
- Simple allocation of human resources and devices by drag & drop
- Shift management

gross planning

detailed planning



# Activity recording

The module enables a possible comprehensible logging of performed work as well as logging of time and effort (device and human resources) linked to the performed work.

## Features

- Capture of scheduled and unscheduled performed work
- Capture of working time and resource work
- Capture of down times
- Logging of goods movements
- Planned/ actual performance comparison
- Generate of working and activity confirmation

Different reports are available in tabular or graphic form for the successful control and efficiency control.

The screenshot shows a software interface for activity recording. It includes a sidebar with project navigation, a main work order table, and a resource assignment table. Callouts highlight specific features:

- Settings of the shift and the area:** Points to the top-left navigation pane.
- Overview of the work orders according to projects:** Points to the list of work orders in the main area.
- Capture of services:** Points to the 'Anzeigeschema' dropdown menu.
- Recording of the work effort:** Points to the resource assignment table at the bottom.

Leistung	Schicht	Beginn	Ende	Menge
Schiff - Lager, 53201 Betonstahl, Bunde	Schicht 14.00 - 22.00 Uhr am 29.11.2010	29.11.14.	29.11.22.	830 Bnd
Betonstahl 500, 10-13 - Schiff - Lager, 53201 Betons...	Schicht 14.00 - 22.00 Uhr am 29.11.2010	29.11.14.	29.11.22.	170 Bnd
Betonstahl 500, 12-10 - Schiff - Lager, 53201 Betons...	Schicht 14.00 - 22.00 Uhr am 29.11.2010	29.11.14.	29.11.22.	140 Bnd
Betonstahl 500, 12-13 - Schiff - Lager, 53201 Betons...	Schicht 14.00 - 22.00 Uhr am 29.11.2010	29.11.14.	29.11.22.	110 Bnd
Betonstahl 500, 14-14 - Schiff - Lager, 53201 Betons...	Schicht 14.00 - 22.00 Uhr am 29.11.2010	29.11.14.	29.11.22.	220 Bnd

Ressourcengruppe	Ressource	Auslastung	Beginn	Ende	Menge
Schmerguthran max. 50t	Atlas 1 [A1]	100,00 %	29.11.14:00	29.11.22:00	7,50 h
Kranfahrer	Zimmermann, Wolfgang	100,00 %	29.11.14:00	29.11.22:00	7,50 h
Hafenarbeiter	Holz, Karsten	100,00 %	29.11.14:00	29.11.22:00	7,50 h
Hafenarbeiter	Schulz, Michael	100,00 %	29.11.14:00	29.11.22:00	7,50 h

## Stock process management

The module provides a constantly overview of the stock inventory.

### Features

- Management of stock location
- Management of the inventory card
- Automatic stock item entry from the activity recording
- Logging of stock movements ( incoming goods, outgoing goods, relocation)
- Automatic place allocation (stock rules)
- Calculation of storage charge
- Use of bar code scanner, RFID for the automatic data acquisition
- Print of the own bar code label

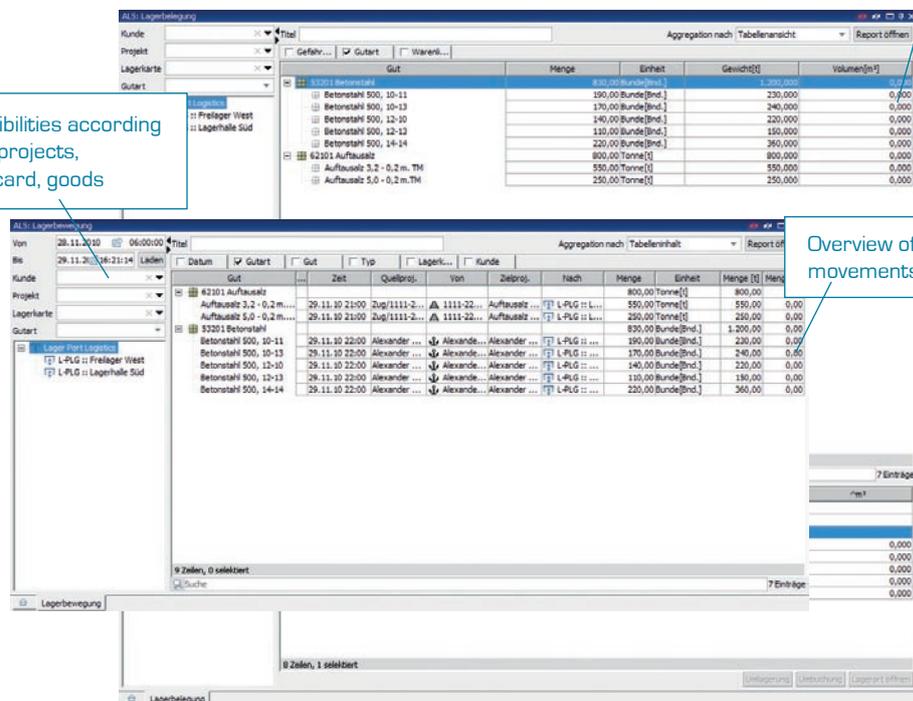
### Reports

The user gets comprehensive information about the actual stock situation as well as about the previous stock movements.

- Stock protocols
- Stock movement protocols

Filter possibilities according to clients, projects, inventory card, goods

Overview of stock transactions



The screenshot displays two windows from the ALS software. The top window shows a stock inventory overview with a table of goods and their quantities. The bottom window shows a detailed stock movement report with columns for date, time, source, destination, and quantity.

Material	Quantity	Unit	Weight	Volume
53201 Betonstahl	830,00	Bunde	830,00	0,00
Betonstahl 500, 10-11	190,00	Bunde	230,000	0,00
Betonstahl 500, 10-13	170,00	Bunde	240,000	0,00
Betonstahl 500, 12-10	140,00	Bunde	220,000	0,00
Betonstahl 500, 12-13	110,00	Bunde	150,000	0,00
Betonstahl 500, 14-14	200,00	Bunde	360,000	0,00
62201 Aufbausatz	800,00	Tonne	800,000	0,00
Aufbausatz 3,2 - 0,2 m. TM	550,00	Tonne	550,000	0,00
Aufbausatz 5,0 - 0,2 m. TM	250,00	Tonne	250,000	0,00

Datum	Zeit	Quellproj.	Von	Zielproj.	nach	Menge	Einheit	Menge (t)	Meng
29.11.10	21:00	Dup/1111-2...	A. 1111-22...	Aufbausatz	L-PLG	550,00	Tonne	550,00	0,00
29.11.10	21:00	Dup/1111-2...	A. 1111-22...	Aufbausatz	L-PLG	250,00	Tonne	250,00	0,00
29.11.10	22:00	Alexander ...	Alexande... Alexander ...	L-PLG	L-PLG	830,00	Bunde	1.200,00	0,00
29.11.10	22:00	Alexander ...	Alexande... Alexander ...	L-PLG	L-PLG	190,00	Bunde	230,00	0,00
29.11.10	22:00	Alexander ...	Alexande... Alexander ...	L-PLG	L-PLG	170,00	Bunde	240,00	0,00
29.11.10	22:00	Alexander ...	Alexande... Alexander ...	L-PLG	L-PLG	140,00	Bunde	220,00	0,00
29.11.10	22:00	Alexander ...	Alexande... Alexander ...	L-PLG	L-PLG	110,00	Bunde	180,00	0,00
29.11.10	22:00	Alexander ...	Alexande... Alexander ...	L-PLG	L-PLG	200,00	Bunde	360,00	0,00

Overview of stock movements

# Contracts

The module contract administration allows a simple and clear representation of the contracts with comprehensive arrangements, which were determined with a customer.

All data relevant to contract are captured in the contract module:

- Contract duration
- Period of cancellation
- Customised prices and discounts
- Quantity scale
- Information for the automatic document creation (invoice activation, term of payment, cost unit, accounts...)
- Different contract amounts (guarantee amount, border amount...)

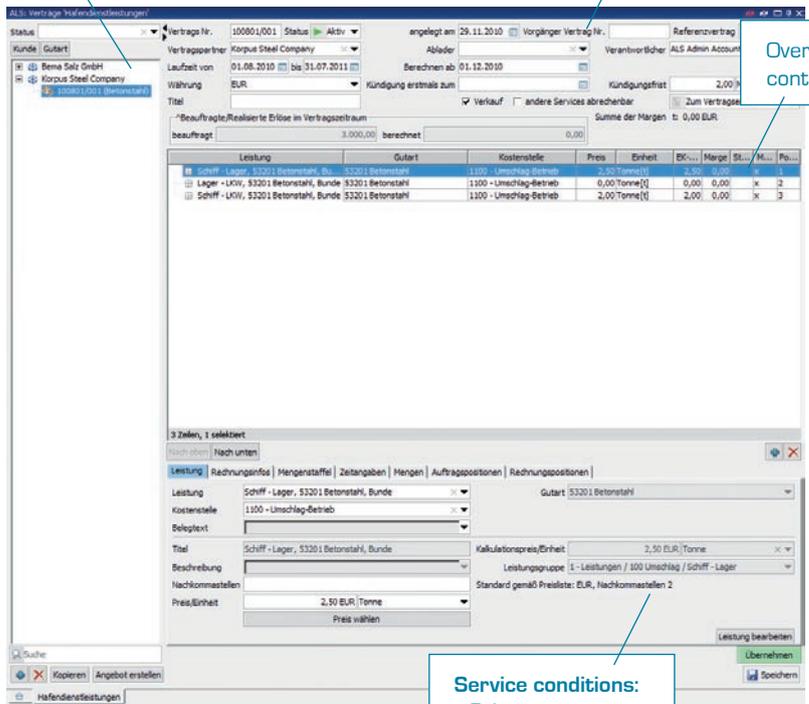
Additionally the module offers:

- Report about the commissioned and accounted amounts of a contractual capacity
- Report above the whole commissioned and accounted proceeds to the contract
- Automatic appointment monitoring and reminder

- Contracts overview
- Filter possibilities according to status

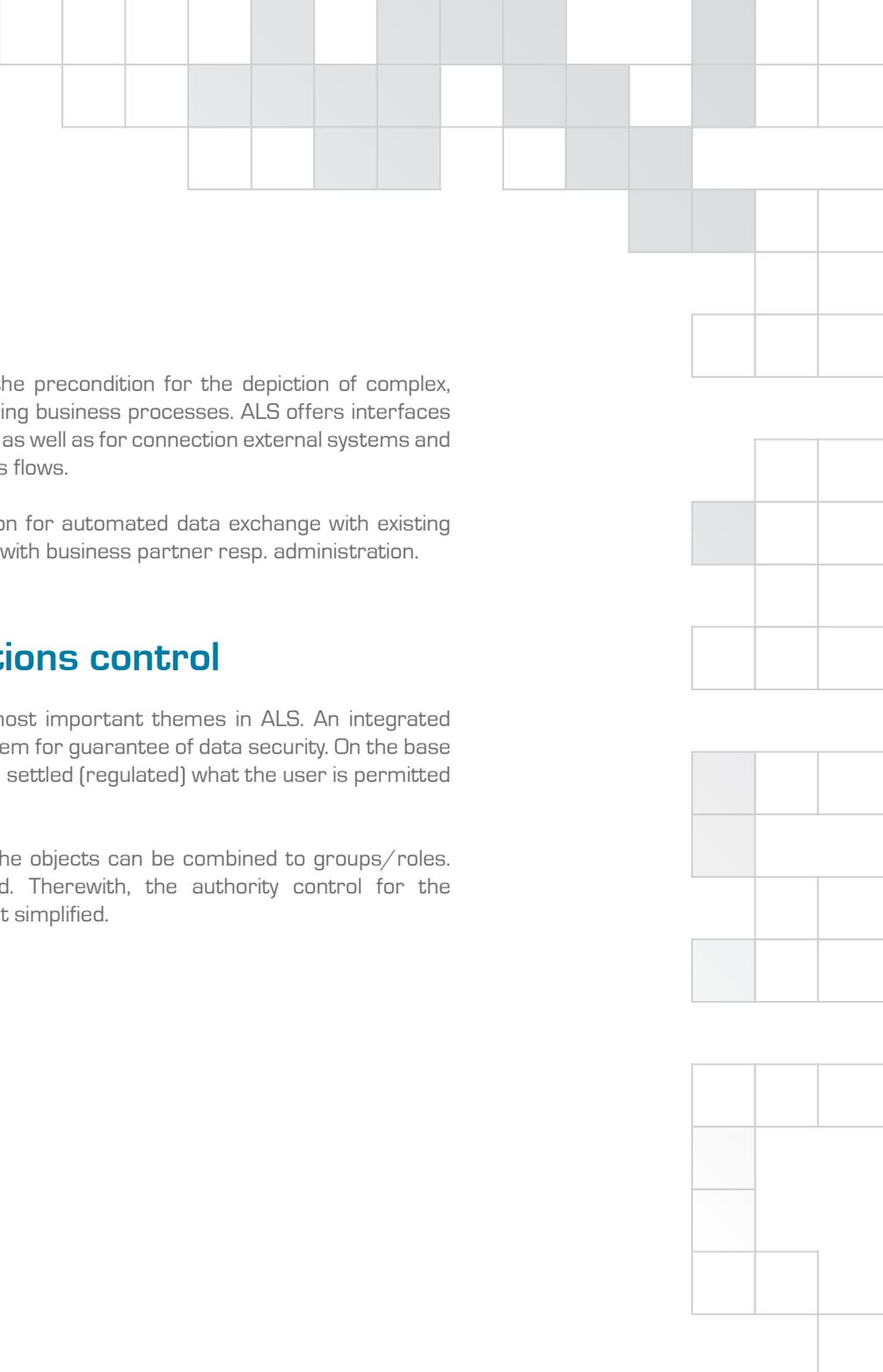
- **Contracts header**
  - Contract partners
  - Contract duration
  - Period of cancellation
  - Contract status

Overview of contracted services



- **Service conditions:**
  - Prices
  - Invoice information
  - Quantity scale
  - Contract amounts





## Interfaces

The effective interfaces are the precondition for the depiction of complex, system and enterprises covering business processes. ALS offers interfaces for reconciliation of data stock as well as for connection external systems and their integration in the process flows.

ALS offers the suitable solution for automated data exchange with existing systems in your enterprise or with business partner resp. administration.

## User and operations control

Data security is one of the most important themes in ALS. An integrated authority system is the main item for guarantee of data security. On the base of configurable rights it can be settled (regulated) what the user is permitted to see and to execute.

Thereby the user as well as the objects can be combined to groups/roles. The Roles can be interlaced. Therewith, the authority control for the administrator will be significant simplified.



Scheller Technology GmbH  
Poeler Straße 85a ■ D-23970 Wismar ■ Germany  
phone: +49 - (0) - 3841 - 46 000 ■ fax: +49 - (0) - 3841 - 46 00 46  
info@scheller.de ■ www.scheller.de

