

Modules for shippers, multipurpose ports, supply terminals and industrial ports

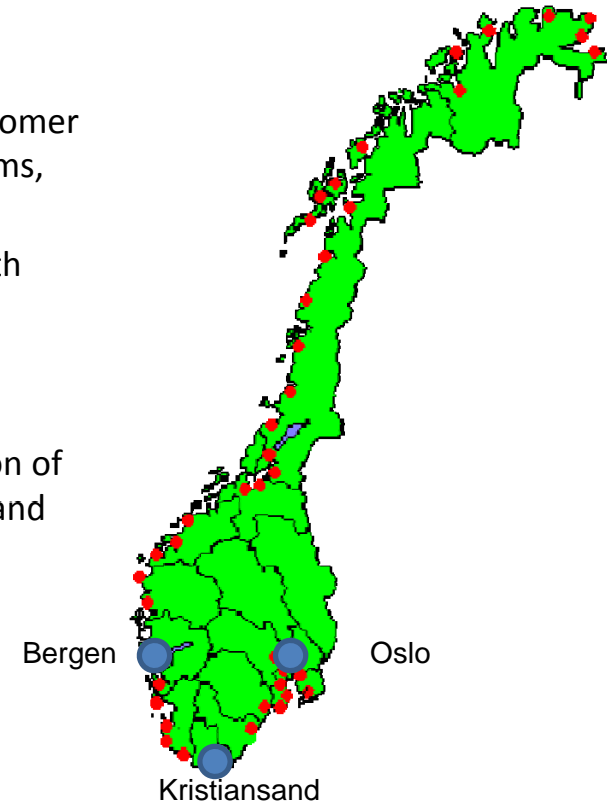
2) Presentation of Seamless



- **EXPERIENCED AND COMPETENT**
 - **Our 8 Industry experts** with system developments for ports and shipping companies for over 35 years.
 - **OUR delivery:** IT strategy, consulting, project management, customer adaptation, complete IT solutions, integrations with other systems, training and assistance in developing processes and procedures
 - **Our Growth :** Gazelle 2010 – Over 100% growth over 4 years with positive net results all years. Financial risk profile = AAA
- **RESEARCH AND INNOVATION**
 - We participate in leading R&D project to support implementation of standardized interfaces and shared information across systems and actors

Examples

 - [ShortSeaXML](#)
 - UN/EDIFACT
 - EPC2 - MARINTEK
 - THE VITSAR PROJECT – MARINTEK
 - NEW message standards and message types
 - NorStella - Continuation of ShortseaXML
 - eMaritime - EU Commission - Stakeholder



Both public and private ports as well as private terminals are using our solutions

- Oslo
- Drammen
- Borre
- Moss
- Tønsberg
- Sandefjord
- Grenland
- Arendal
- Kristiansand
- Farsund
- Stavanger
- Sandnes
- Haugesund
- Stord
- Bergen
- Flora
- Måløy
- Molde
- Kristiansund
- Orkanger
- Trondheim
- Levanger
- Steinkjer
- Namsos
- Brønnøysund
- Sandnessjøen
- Mo i Rana
- Hammerfest
- Svolvær
- Sortland
- Harstad
- Hydro
- Alta
- Nordkapp
- Båtsfjord
- Vardø
- Vadsø
- Kirkenes
- Svalbard
- Hadsel
- Risavika
- Statoil Kårstø
- Elkem Solar
- Oslo Container Terminal



3) The objectives of our solutions



Solutions of Seamless will contribute to increase profitability and simplifying the operations for our customers

Seamless has received positive reviews both nationally and internationally by the press. Seamless designated stakeholder in the EU's projects related to port operations and use of IT.

Customer purchases:

1. **Shelf Products** as Software As A Service

Portwin – Port Operating System , Customer and Billing system

PortTools - Portals for Planning, Control and Visibility of Calls, Security Agreement and Performace.

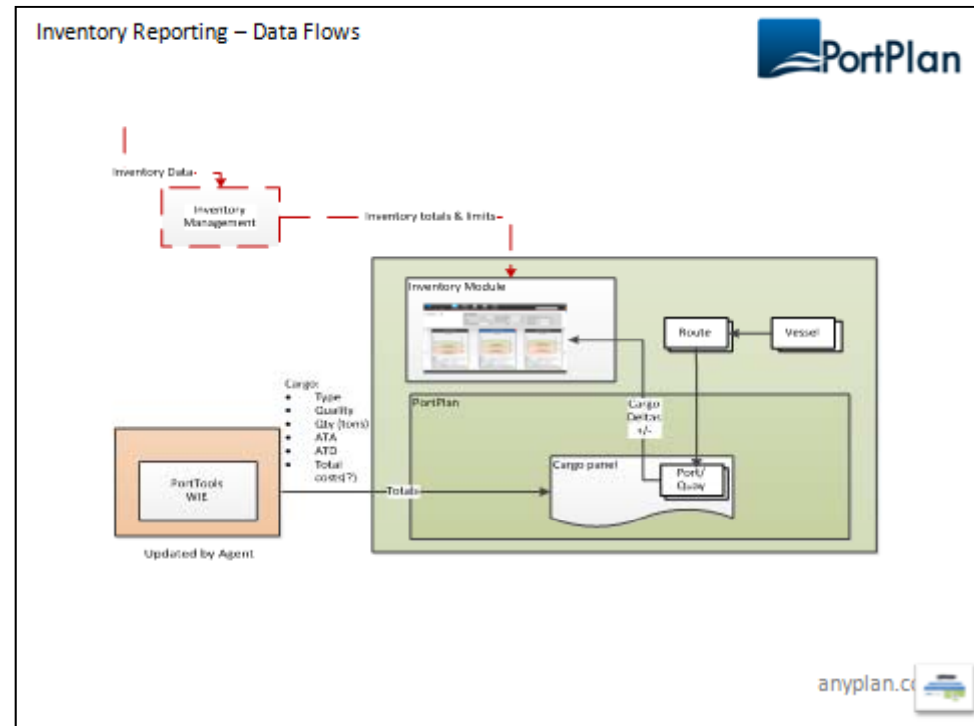
2. **Integrations supplied and hosted by Seamless :**

- to customers , suppliers and shipping companies
- to terminalsystems
- to AIS
- to SafeSeaNet
- to Access Control systems
- to telemetry as water and electricity
- to website and mobile clients

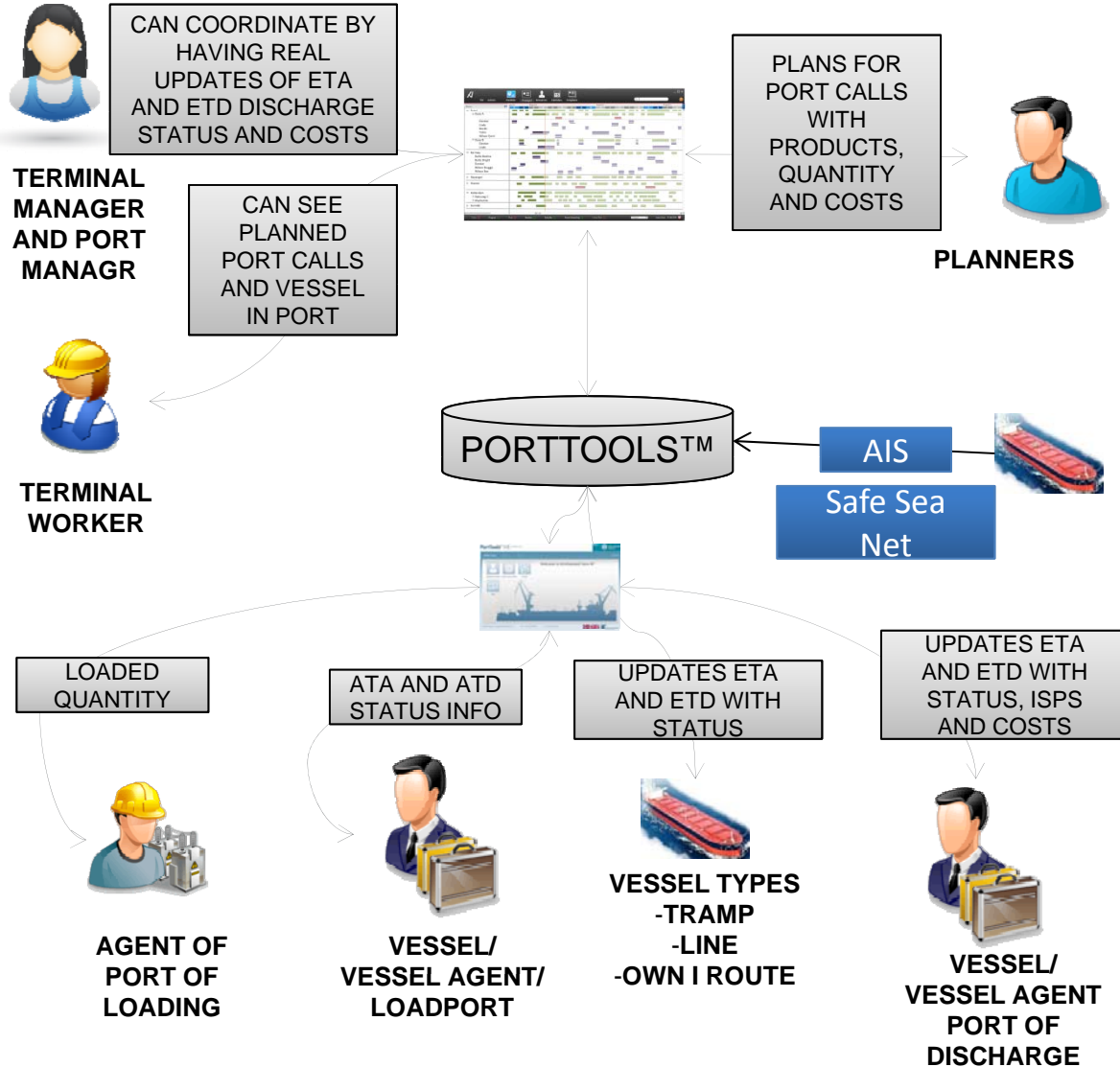
3. **Assistance in Project implementation, training and introduction**

PortTools PortPlan

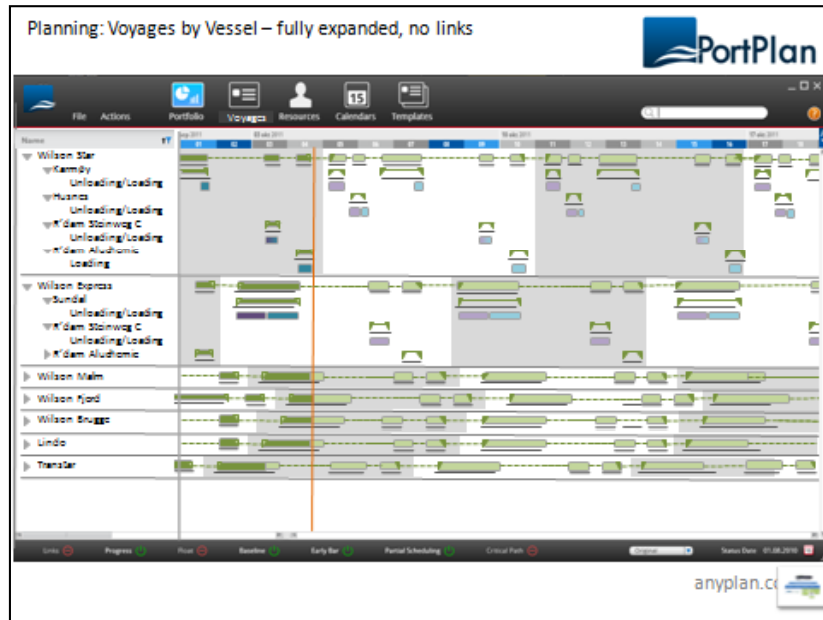
1. Improving cooperation and planning,
2. Ports may, through better synchronization and resource planning, utilize the available dock capacity, and consequently increase productivity and profitability.
3. PortTools® PortPlan is the solution for:
 - Supply Chain Visibility
 - Transport Management
 - Inventory Management
 - Improved utilization of resources in ports



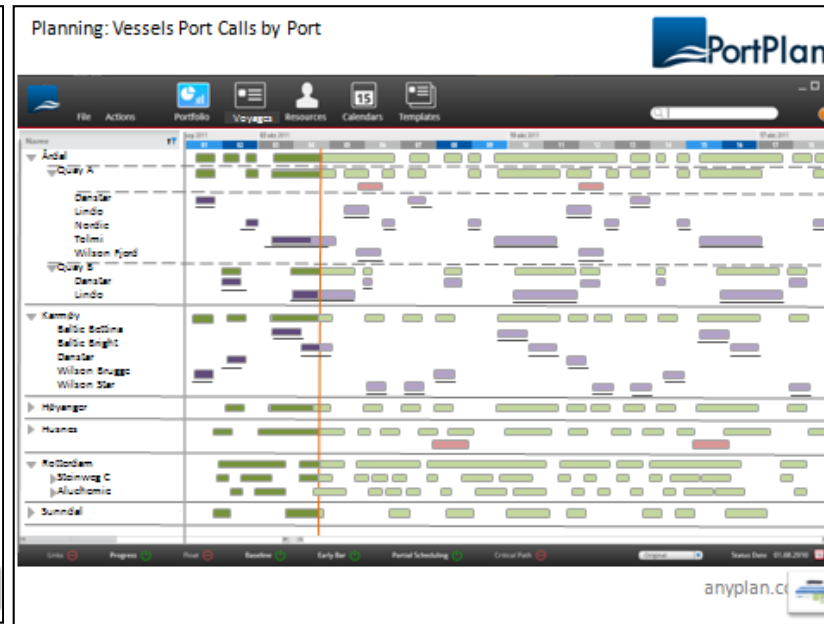
Coordination across the whole supply chain by PortTools Planning, optimization and control



Examples of Screen Shots (1)

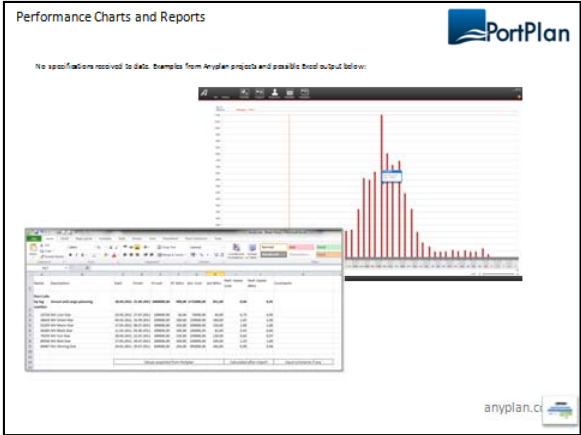


Vessel Schedules with port of loading, cargo and port of discharge. Status of vessel along the sailing

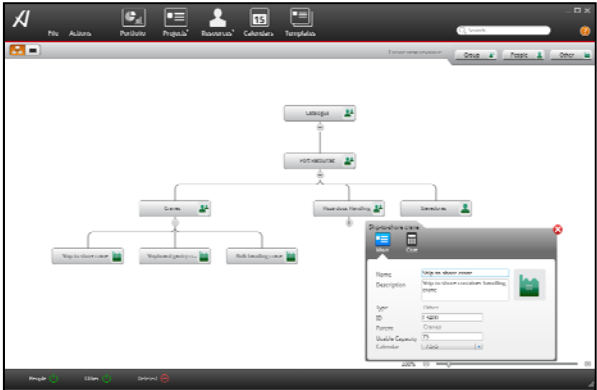


Port Schedules with port of loading, cargo and port of discharge. Status of vessel along the sailing and potential double bookings of berth. Support to see potential conflicts at berth

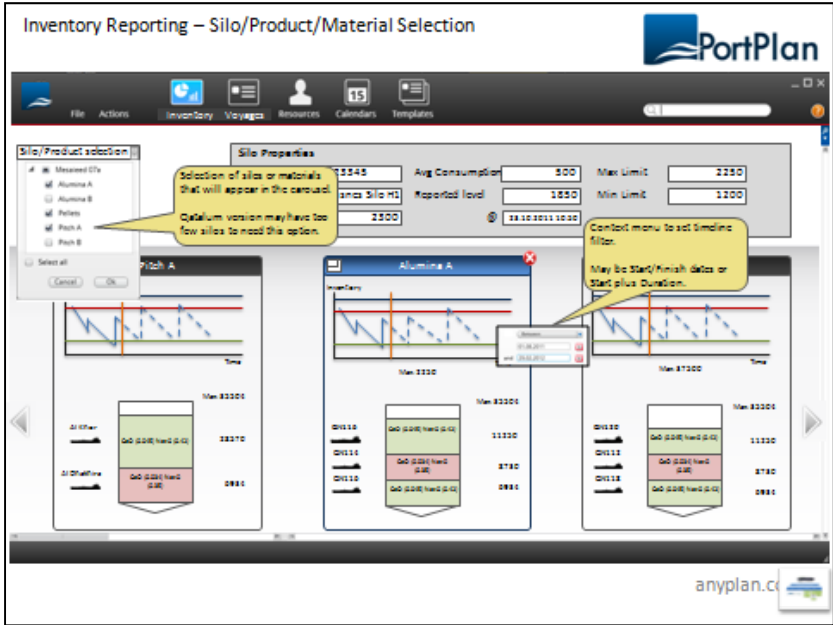
Examples of Screen Shots (2)



Measuring Key Performance Indicators



Resources Hierarchies with definitions of costs and availability



PortTools® PortPlan Inventory Control makes it easy to see your Inventory Status aligned with your Shipping Schedules and Planned Cargo

Flexible

Transparant

Secure and robust

Efficient

Portwin provide high benefit with automated transfer to accounting

Innlogging

Skriv inn brukernavn og passord for å logge på Portwin 4.0

Brukerid : pw

Passord :

Havn : Pragma Maritime

Informasjon til brukerne:
Her skal det stå viktig informasjon til brukerne.

SEAMLESS Brukerhjelp: support@seamless.no Tlf: +47 464 40 500 www.seamless.no

Portwin

Automated transmission and updating accounting , ledger and accounts



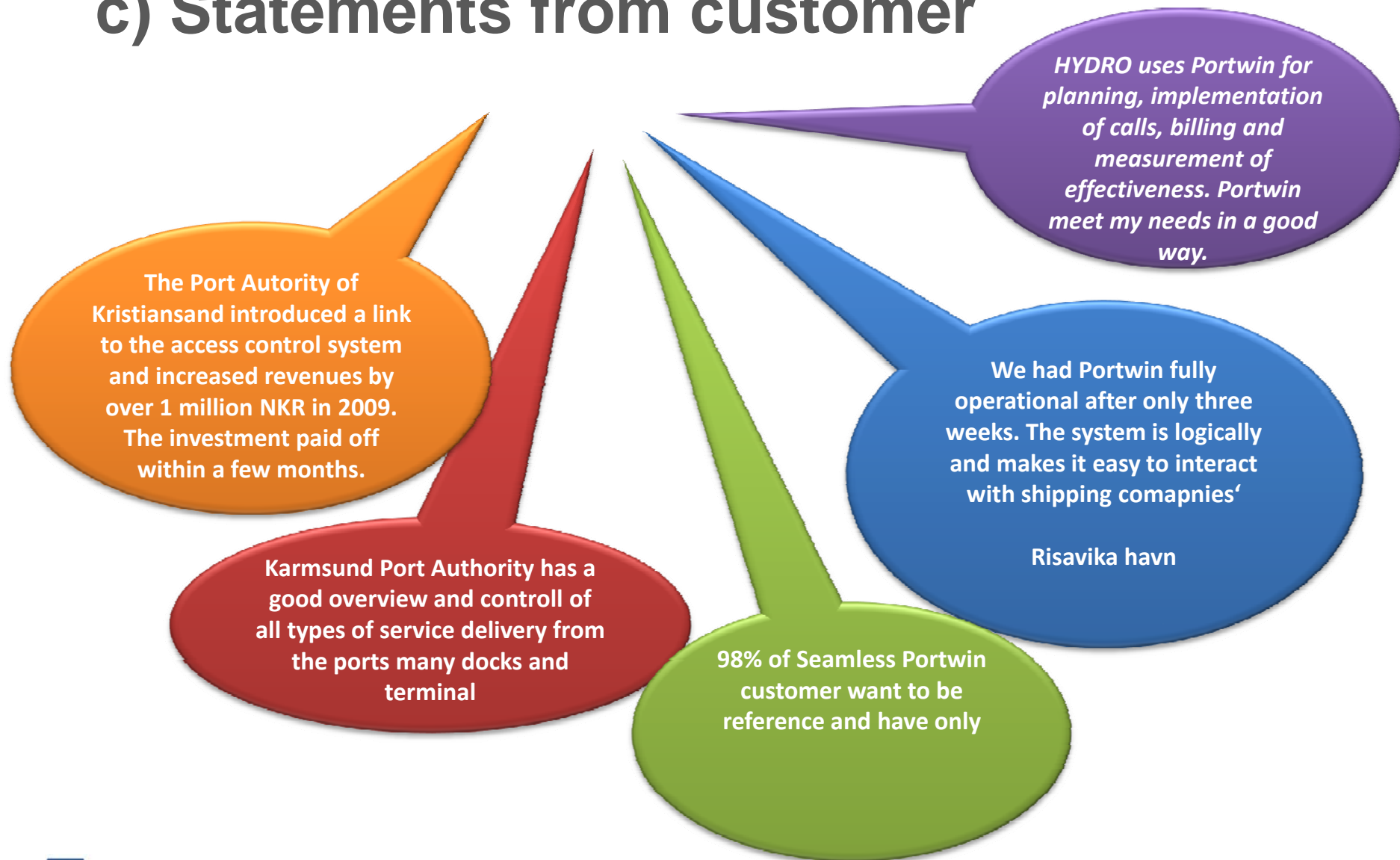
UNIT4
BUSINESS SOFTWARE

Visma Global

PLANNING, DELIVERY AND BILLING FOR :

- ARRIVAL
- USE OF QYAS AND EQUIPMENT
- SERVICE DELIVERY
- CARGO
- OTHER REGULAR DELIVERIES TO LEASE OF AREAS ETC .

c) Statements from customer



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Portwin – master data



Master data is used when port calls, services and load/unload are registered – Calculation of prices are automated and are correct based on general prices or customer specific agreements. Port calls can be simulated for cost calculation

Master Data used across the system

1. Port, terminal and port objects
2. Customers ,
3. Vessels,
4. Other ports and other facilities,
5. Product and services with calculation and discounts models
6. Cargo types
7. Billing with integration to external system with account receivables and general ledger

(*) Detailed information about arrival

Arrival no:	Fin. Period fakt.:	<input type="checkbox"/>	Last updated:
Vessel ID: <input type="text"/>	Number: <input type="text" value="1"/>		Status: <input type="text" value="Fiktiv"/>
Vessel name: <input type="text"/>			Ref. Arrival: <input type="text"/>
Traffic type: <input type="text"/>			Tlf: <input type="text"/>
Arrival: <input type="text" value="00.00.0000 00:00:00"/>			BT: <input type="text"/>
Departure: <input type="text" value="00.00.0000 00:00:00"/>			G: <input type="text" value="0,00"/>
Expected arrival: <input type="text" value="00.00.0000 00:00:00"/>	hour:		From port: <input type="text"/>
Expected departu.: <input type="text" value="00.00.0000 00:00:00"/>	hour:		To port: <input type="text"/>
Load plan exists: <input type="checkbox"/>	Remark: <input type="text"/>		<input checked="" type="checkbox"/> Show all
Customer: <input type="text"/>			<input checked="" type="checkbox"/> Show all
Rate treatment(\$): <input type="text"/>			External arrival id: <input type="text"/>
Reg. arrival fee(\$): <input type="text" value="Anløpsavgift Trondheim"/>			Reference: <input type="text"/>
			Waste zone: <input type="text"/>
			Provision: <input type="checkbox"/> Do not charge garbage fee(\$): <input type="checkbox"/>
			Reg. quay fee(\$): <input type="text" value="Anløpsavgift - langtidsanløp pr kvartal"/>
			% of arrival fee (\$): <input type="text" value="100,00"/>

Quay visits | Services | Load units | Add. invoice | Waste invoice | Documents | Internal notes

Arrival	Dept.	Mooring loc.	Num.	Pur- pose	Mooring code	Mooring ass	Unload ass	Price man.	% quay fee	Status
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Flexible

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Secure and robust

Efficient

Portwin – Help you to get a revenue stream

Your revenue can be specified for:

1. Vessels
2. Customer
3. Objects such as docks etc .
4. Use of equipment
5. Cargo carriers (car, boat, train)
6. Delivery of Services
7. Minimum prices
8. Prices in steps
9. Type of load type, e.g. bulk, general cargo or containers. Volumes, cargo types and more
10. Time of day, holiday, overtime
11. Prices can be valid for specific periods like prices for 2011 and prices for 2012. Both can be operational simultaneously The system takes care of the link between Time of Service delivery and price that is used

Detailed information about arrival

Arrival no: 8256 Fin. Period fakt.: Last updated: 02.10.2011 07:52 PW
 Vessel ID: IBJL Number: 1 Status: Forlatt havnen
 Vessel name: ZAGARA Ref. Arrival: 8254 TIF:
 Traffic type: (ikke bruk) uterriks sypplyvirksomhet BT: 10 8 51 G: 1 690,96
 Arrival: 08.06.2011 12:30:00 From port: Kalajoki Show all
 Departure: 12.06.2011 12:30:00 To port: Jan Mayen Show all
 Expected arrival: 08.06.2011 12:30:00 Hour: External arrival id:
 Expected departu.: 12.06.2011 12:30:00 Hour: Reference:
 Load plan exists: Remark: Waste zone: Avfallssone EU
 Customer: 4051 Xantico Provision: Do not charge garbage fee(\$):
 Rate treatment(\$): Reg. quay fee(\$): Kaiavgift Trondheim
 Reg. arrival fee(\$): Anlpsavgift Trondheim % of arrival fee (\$): 100

Quay visits Services Load units Add. invoice Waste invoice Documents Internal notes

Kunde	Status	Starttidspkt.	Sluttidspkt.	Objekt ID	Mengde 1	Mengde 2	Utført	Sist endret

(*) Services

Service no: Status: Rent#
 Separate invoice: Due date: 00.00.0000
 Arrival no: 8256 Arrival: 08.06.2011 12:30 Departure: 12.06.2011 12:30
 Vessel: IBJL ZAGARA BT: 10851 G: 1690.96
 Load no: Transp. type: Transp. Name:
 Customer: 4051 Xantico
 Pay terms: Inv tax: Use customers inv. lang.:
 Ref. code: Voucher no: Date: 00.00.0000
 Internal note:

Object/place	Object type	price	From time	To time	Amount 1	Amount 2	% of(\$)	Notes	Last upd.	Sign.
0: [...]	RP		00.00.0000 00:00	00.00.0000 00:00			100.00			
5: [...]	Done							Description:		

Loading/unloading:

Load/unl. date: 02.10.2011 07:56:40 Place: Last upd.:
 Voucher in: 00.00.0000 Voucher out: 00.00.0000
 Order id.:
 Start loading: 00.00.0000 00:00:00 Stop in hours: Start loading: 00.00.0000 00:00:00 Stop in hours:
 Stop unloading: 00.00.0000 00:00:00 Stop in min.: Stop loading: 00.00.0000 00:00:00 Stop in min.:

Reg. of load/goods Overview of load/goods Comment Land based transp.

Flexible

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Secure and robust

Efficient

f) Portwin invoicing

Port Call services can be routed to the relevant and agreed customers:

1. Call charges
2. Quay fees
3. ISPS fees
4. Service delivery
5. Customers which owns the cargo or have ordered the transport with vessel
6. Customers of special security services
7. Premiums or discounts can be given directly from the chosen pricing model
8. Customer PO number and reference can be placed on the correct and agreed charge
9. All transactions and changes can be logged and tracked by the system
10. Invoices can be sent as paper or pdf file by e-mail.
11. EDI based E-invoice is planned in 2012.



Loading/unloading:6241 - Anlep: 8187 LARS

Load/unl. date: 30.10.2010 00:00:00 Place: [] Last upd.: 13.12.2010 09:27:16 PW

Voucher in: [00.00.0000] Voucher out: [00.00.0000]

Order id.: []

Start loading: [00.00.0000 00:00:00] Stop in hours: [] Start loading: [00.00.0000 00:00:00] Stop in hours: []

Stop unloading: [00.00.0000 00:00:00] Stop in min.: [] Stop loading: [00.00.0000 00:00:00] Stop in min.: []

Reg. of load/goods: Overview of load/goods Comment Land based transp.

Load/goods types	EU	Amount	Alt. Amount	Port	Status	Transitc.	Danger	Foren.	IMDG
10 (Ikke i bruk)/lytende bull 19					Empty				
X22 31 gjedra	8				Empty				
31 52 CONTAINER PA 20'	31				Empty				
X19 26 malm, slaa og aske	3								
04 Tre og kork	6			M3					

Sum tonn good: 0,00 Number of load uni: 0,00 Number of load type un: 0,00 Unload: 0,00 Loaded: 0,00 Total: 0,00 Thereof empt: 0,00

Portwin 4.1.0 beta 1 build 3 - Superbruker.... (Seamless Havn utviklingsbase)

File Edit View Production Reports Special System Window Help

Services

Service no: 4746 Status: Bestilt AEH 07.12.2010 08:01

Separate invoice: [] Due date: [00.00.0000]

Arrival no: [8187] Arrival: 30.10.2010 00:00 Departure: 02.11.2011 18:00

Vessel: LFCJ LARS BT: 83 G: 118,00

Load no: [] Transp. type: [] Transp. Name: []

Customer: [7] endret kunde 7

Pay terms: Netto pr 15 dager Inv tax: Use customers inv. lang.: []

Ref. code: [] Voucher no: [] Date: [00.00.0000]

Internal note: []

Object/place	Object type	price	From time	To time	Amount 1	Amount 2	% at(\$)
O: 2127 RP RÅDHUSBRYGGE 3 NOR	LOSSKAST		30.10.2010 00:00	00.00.0000 00:00	10,00	10,00	100,00
S: RÅDHUSBRYGGE 3 NORDØST	Done: []		Description: []				
O: A2115 RP RÅDHUSBRYGGE 4 NOR	KJN01		30.10.2010 00:00	00.00.0000 00:00	1,00	2,00	100,00
S: RÅDHUSBRYGGENE	Done: []		Description: []				

Flexible

Transparant

Secure and robust

Efficient

g) Portwin – Service Delivery

SERVICES

1. Services can be ordered for Vessel related Port Calls , to general terminal services or to land transport services
2. Services can be delivered regardless of shipping activity and transport.
3. Access cards or access permission for vehicles can be a service to be invoiced.
4. Service Delivery can be related to objects like quays or resources like cranes. Reports and statistics can visualize utilization and income related to objects or object hierarchies
5. All service deliveries can be calculated automatically based on service definitions and price definitions

Portwin 4.1.0 beta 1 build 3 - Superbruker.... (Seamless Havn utviklingsbase)

File Edit View Production Reports Special System Window Help

Services

Service no: 4746 Status: Bestilt AEH 07.12.2010 08:01

Separate invoice: Due date: 00.00.0000

Arrival no: 8187 Arrival: 30.10.2010 00:00 Departure: 02.11.2011 18:00

Vessel: LFCJ LARS BT: 83 G: 118,00

Load no: Transp. type: Transp. Name: Customer: 7 endret kunde 7

Pay terms: Netto pr 15 dager Inv tax: Use customers inv. lang.:

Ref. code: Voucher no: Date: 00.00.0000

Internal note:

Object/place	Object type	price	From time	To time	Amount 1	Amount 2	% at(\$)
O: 2127 RP RÅDHUSBRYGGE 3 NOR	LOSSKAST		30.10.2010 00:00	00.00.0000 00:00	10,00	10,00	100,00
S: RÅDHUSBRYGGE 3 NORDØST	Done: <input type="checkbox"/>		Description:				
O: A2115 RP RÅDHUSBRYGGE 4 NOR	KJN01		30.10.2010 00:00	00.00.0000 00:00	1,00	2,00	100,00
S: RÅDHUSBRYGGENE	Done: <input type="checkbox"/>		Description:				

h) Portwin – Unloading and Loading

UNLOADING AND LOADING

1. Different types of cargo or resources used can provide different types of prices
2. Cargo types can follow EU code definitions or can be customized. Prices may apply for one or more types of cargo.
3. Quantities, types of cargo, services delivered, time and day may be used as basis for cost/pricing.
4. Volumes, resources used and Start and stop may be used for Key performance Indicator-reports
5. Load Port, Discharge Port and responsible customer may be used for statistical purpose and pricing.



Detailed information about arrival

Arrival no: 8285 Fin. Period fakt.: Last updated: 23.09.2011 15:07 PW
 Vessel ID: LALQ Number: 1 Status: Ankommet
 Vessel name: ASKEPOTT Ref. Arrival: Tlf:
 Traffic type: X (ikke bruk) lokal linjefart BT: 1.23 G: 99.00
 Arrival: 23.09.2011 12:00:00 From port: Show all
 Departure: 00.00.0000 00:00:00 To port: Show all
 Expected arrival: 23.09.2011 12:00:00 four: External arrival id:
 Expected departu.: 00.00.0000 00:00:00 four: Reference:
 Load plan exists: Remark: Waste zone:
 Customer: (*) Loading/unloading:6258 - Anløp: 8285 ASKEPOTT
 Rate treatment(\$):
 Reg. arrival fee(\$): Anløp
 Quay visits Services Load
 Lastnr Le
 6258 23

Load/unl. date: 23.09.2011 12:00:00 Place: Last upd.: 02.10.2011 11:54:11 PW
 Voucher in: 00.00.0000 Voucher out: 00.00.0000
 Order id.:
 Start loading: 00.00.0000 00:00:00 Stop in hours: Start loading: 00.00.0000 00:00:00 Stop in hours:
 Stop unloading: 00.00.0000 00:00:00 Stop in min.: Stop loading: 00.00.0000 00:00:00 Stop in min.:

Reg. of load/goods Overview of load/goods Comment Land based transp.

Lastetype	Antall(\$)	Tom	Kundenr	Fra/Til havn	Vis alle	Lossing/Lasting	Stjett	Sist endret	Status
Jern og stålprod	100	<input type="checkbox"/>	100	Vågan/Svolvær	<input checked="" type="checkbox"/>	Lossing	<input type="checkbox"/>	02.10.2011 11:54:11 PW	3

Varetype	Innen-/utenriks	Ant.tonn(\$)	Alt.enhet(\$)	Kundenr	Status	%ved(\$)	Fra/til havn	Vis alle	Prov.	Faktura?
X19	Innenriks	200.00		100	H	100.00	Vågan/Svolvær	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Flexible

Transparant

Secure and robust

Efficient

j) Various report options

Innlogging

Skriv inn brukernavn og passord for å logge på Portwin 4.0

Brukerid : pw

Passord :

Havn : Pragma Maritime

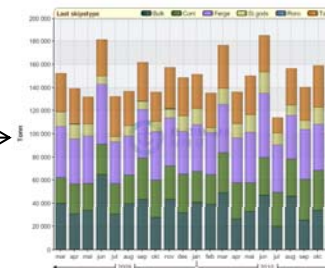
Informasjon til brukerne:
Her skal det stå viktig informasjon til brukerne.

SEAMLESS Brukerhjelp: support@seamless.no Tlf: +47 464 40 500 www.seamless.no Portwin

**PLANNING , DELIVERY ANG
BILLING**

50 different reports
on paper, PDF og
spreadsheet

Standard reports and
dumps from Portwin



PortTools Statistics
WEB based tools
with role-based
access

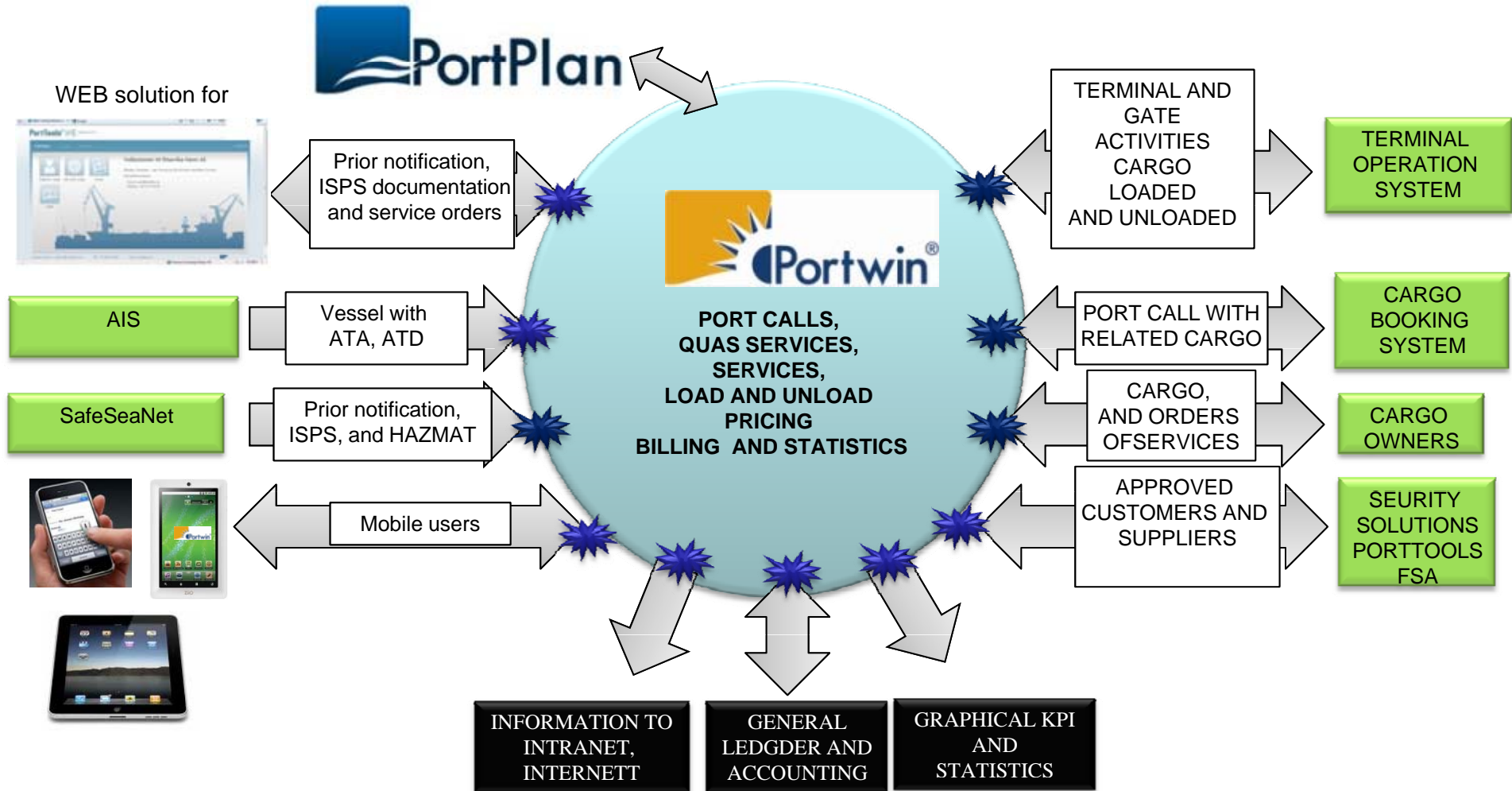
Flexible

Transparant

Secure and robust

Efficient

4) Integration with external systems may be based on open standards or tailor maid integrations



Flexible

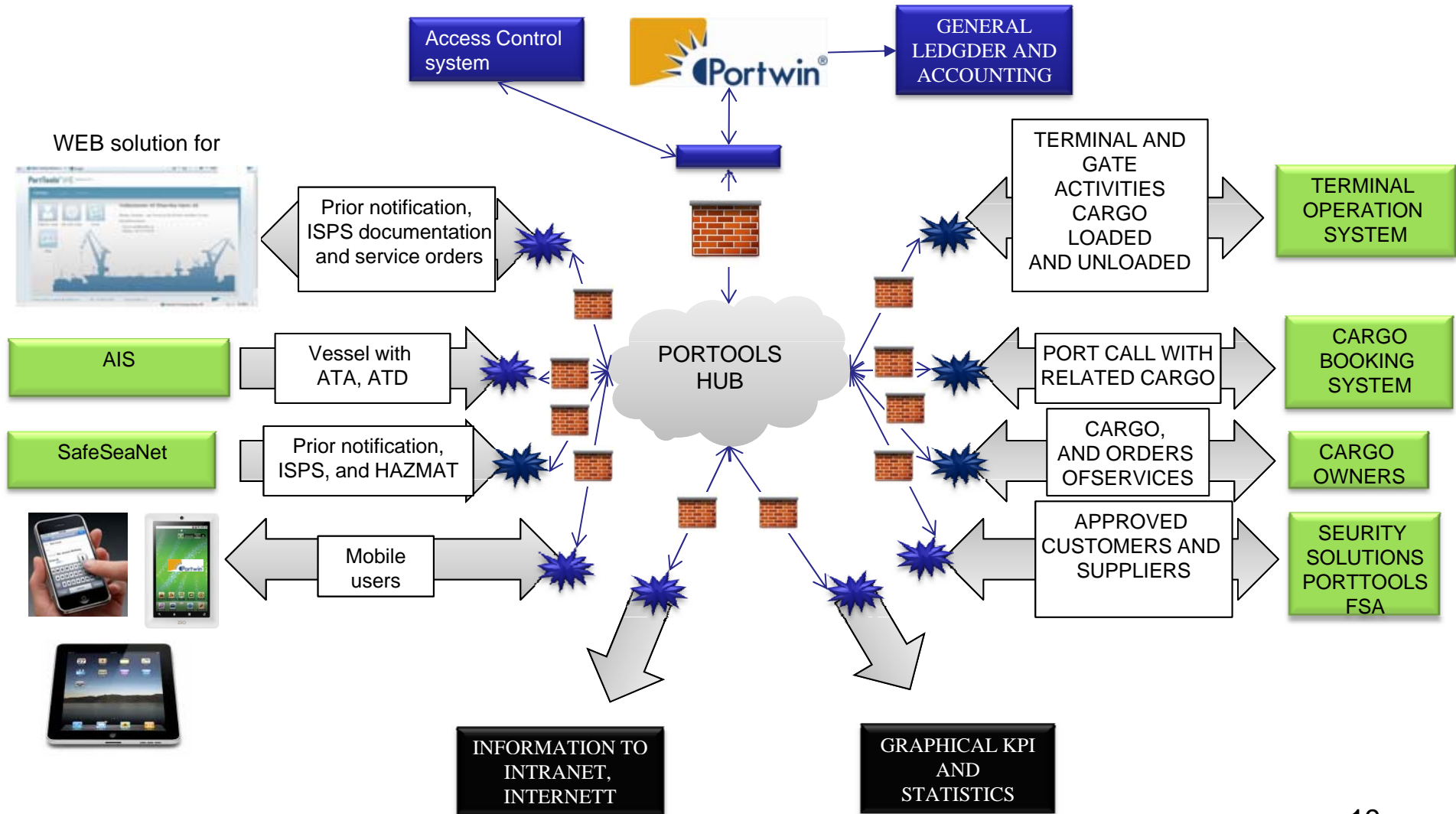
Transparant

Secure and robust

Efficient

4a) Technical setup – Overall architecture

Seamless operate integration services as a SAAS services



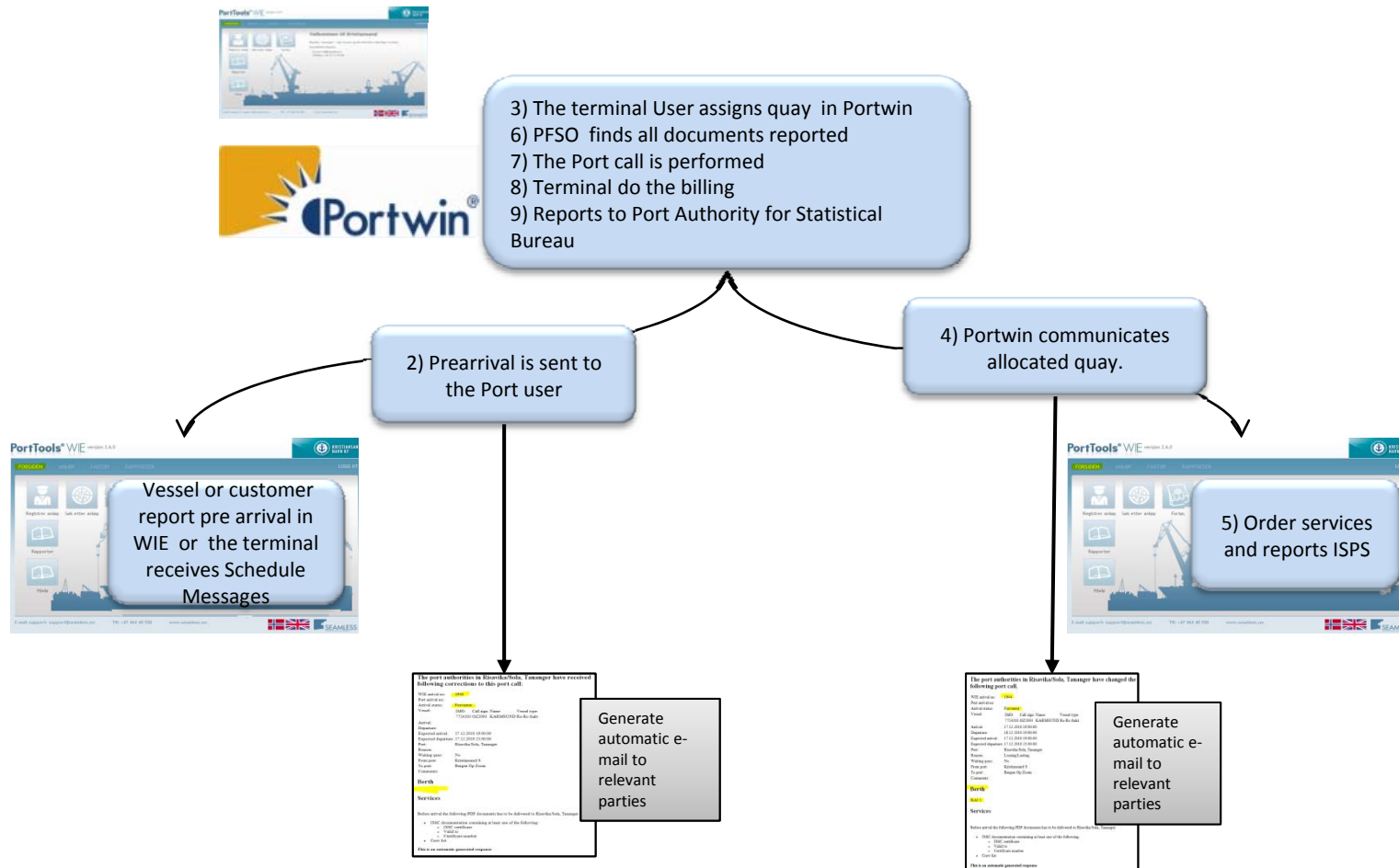
Flexible

Transparent

Secure and robust

Efficient

4b) Use of WEB Interface - PortTools WIE with Portwin



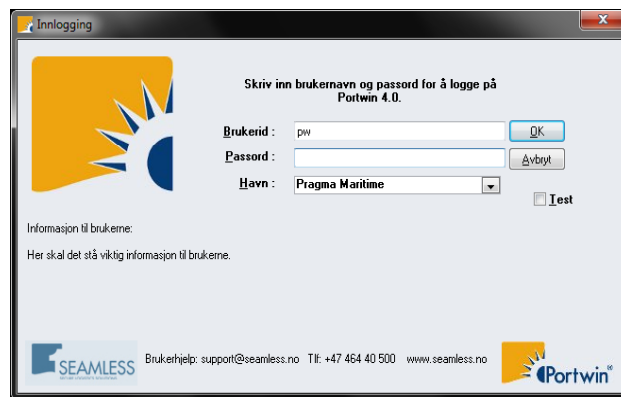
Flexible

Transparant

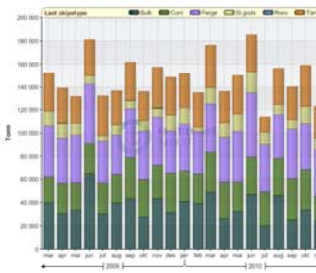
Secure and robust

Efficient

4b) Portwin – have over 50 standard reports PortTools Statistics takes responsibility for graphics and tailor maid reports and graphics



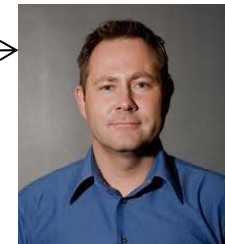
PortTools Statistics
Role-based access



CUSTOMER



MANAGEMENT



EMPLOYEES



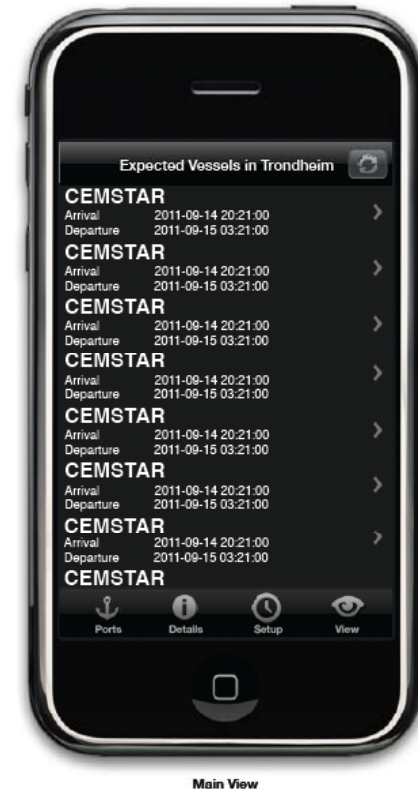
Flexible

Transparant

Secure and robust

Efficient

4 c) Interaction wiht Mobile Solution



Main View