



Intereuropa[®]

Global Logistics Service

Rešitve za promocijo LCL

Bojan Beškovnik

Koper, 13 Oktober 2015



S sofinanciranjem Evropske unije
Vseevropsko prometno omrežje (TEN-T)

1. Cilji pobude

2. Tehnične zahteve in rešitve

3. Prototipne rešitve

Partnerji pobude – Portic (vodja), Intereuropa, Grupo Romeu Multiservices, IFS - International Forwarding Services, Global Maritime Cargo



1. Cilji pobude

- Raziskati možne skupne rešitve za enostavnejše operativno in komercialno delo pri organizaciji LCL odprem
- Oblikovati predloge rešitev za skupno platformo manjših in srednje velikih logističnih podjetij, ki ponujajo in izvajajo prevoze LCL
- Izgraditi uporabniku prijazno okolje – enotna platforma za vse potrebne funkcionalnosti pri organizaciji LCL prevozov
- Zagotoviti sledljivost pošiljki oz. tovoru po fazah odpreme LCL pošiljk
- Avtomatizirano obveščanje vseh deležnikov v oskrbni verigi
- Izmenjava informacij med partnerji pobude
- Zmanjšati papirno poslovanje in avtomatizacija določenih faz procesa = optimizacija oskrbne verige in konkurenčnost LCL servisov

1. Cilji pobude

Usmeritve

- Analizirati in oblikovati funkcionalne zahteve za delovanje celovite IT platforme (procedure, delovni tok, tok informacij, dokumenti, deležniki,...)
- Izgraditi povezovalni element (spletni portal) med različnimi NVOCC operaterji na različnih lokacijah, ki uporabljajo različna IT orodja
- Postaviti zahteve glede potrebne programske podpore
- Definirati systemske zahteve za delovanje platforme in programske rešitve skozi izgradnjo prototipne rešitve
- Ugotoviti priložnosti in koristi, ki jih izgrajen prototip doprinese uporabnikom vzdolž oskrbne verige LCL produkta

1. Cilji pobude

2. Tehnične zahteve in rešitve

3. Prototipne rešitve



2. Tehnične rešitve

Dve tehnični rešitvi

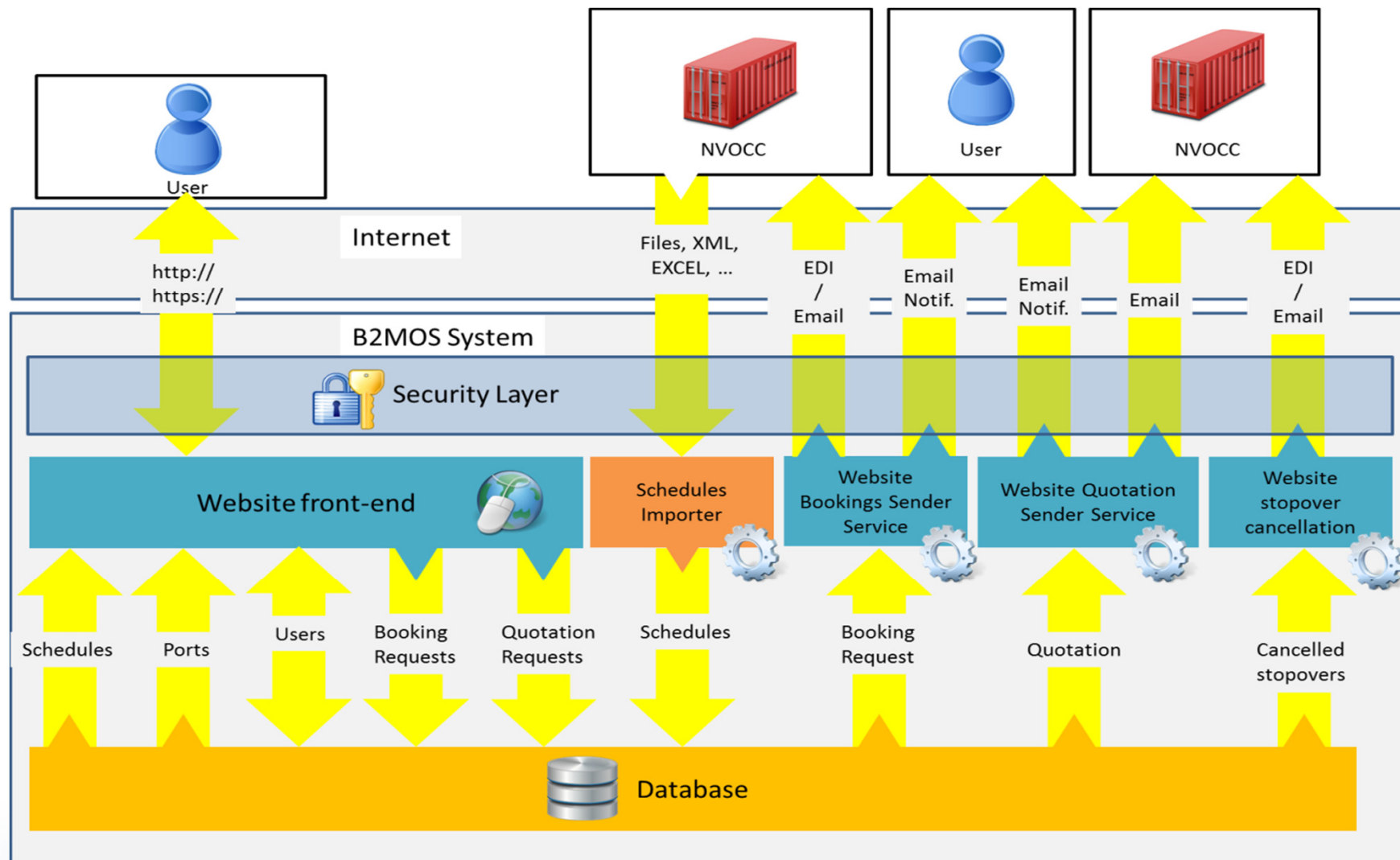
- Skupno spletno orodje za objavljanje LCL servisov med pristanišči, za posredovanje povpraševanj po prevozu, pregled servisov različnih LCL operaterjev in pošiljanje booking naročil
- Ločena IT orodja za komercialno-operativno delo, ki zagotavljajo komunikacijo s krovnim spletnim portalom, pristaniščem, skladiščem, carino, med NVOCC partnerji oz. pošiljateljem in prejemnikom tovora

Celoten sistem temelji na medsebojnem pošiljanju strukturiranih sporočil med različnimi sistemi ključnih „logističnih“ deležnikov (NVOCC, pristanišče, skladišče, carina...)

Strukturirana sporočila do pošiljateljev in prejemnikov tovora

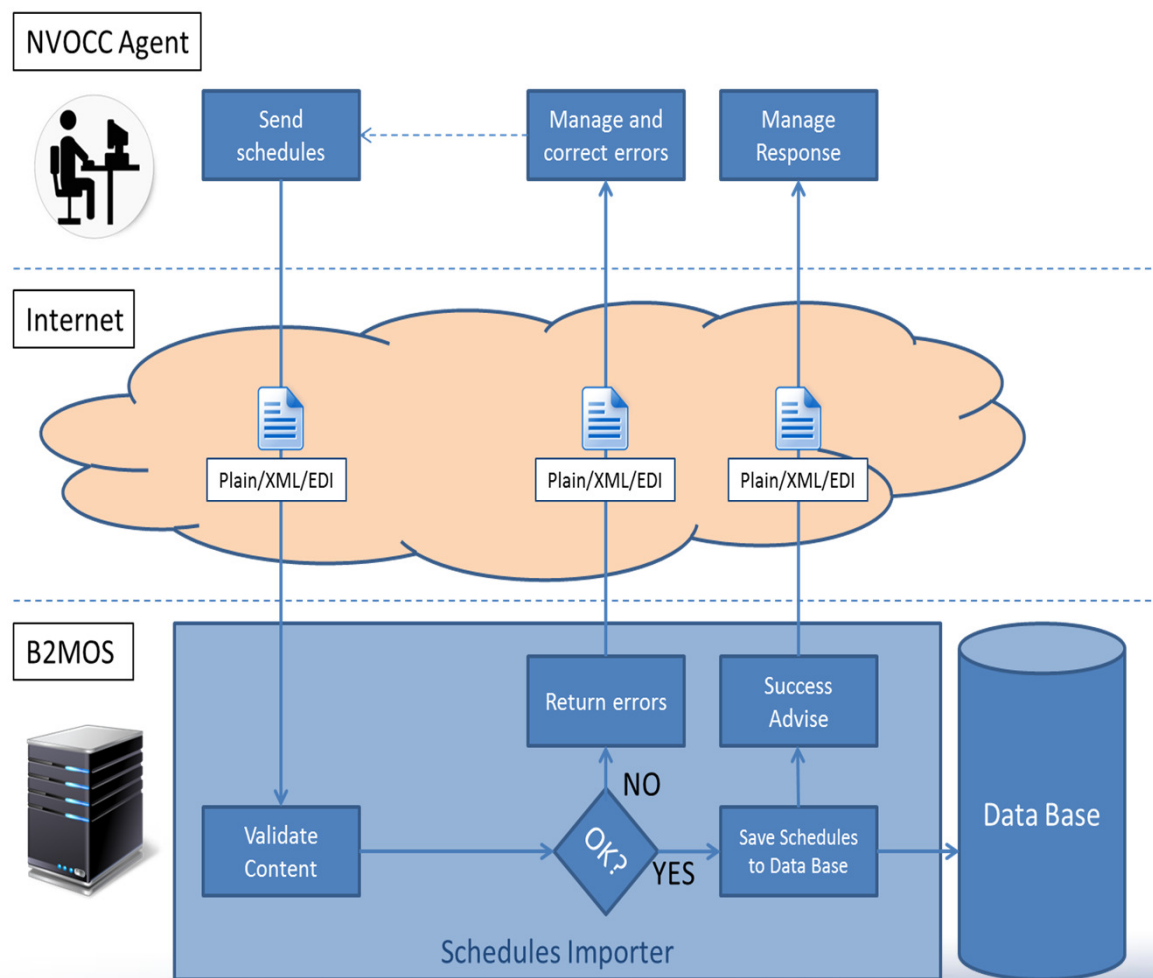
2. Tehnične rešitve

Pregled funkcionalnosti , ki jih zagotavlja spletni portal



2. Tehnične rešitve

Zahteve za upravljanje z urniki LCL odprem (dokument, XML ali EDIFACT).



Nabor podatkov:

NVOCC

Luka nakladanja

Luka razkladanja

Luka prekladanja

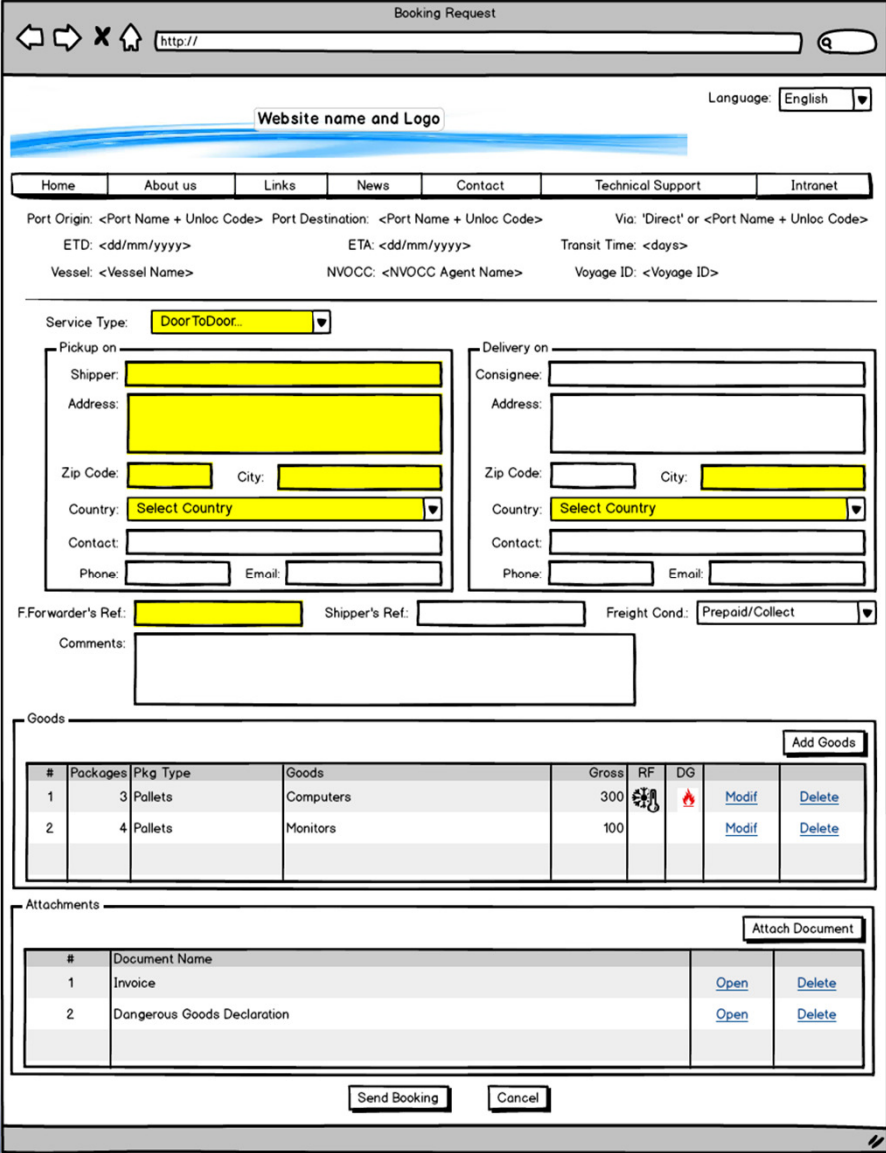
ETD in ETA

Ladja

Servis itd.

2. Tehnične rešitve

- ❑ Posredovanje povpraševanj, bookingov/naročil
- Specifikacije za registracijo uporabnikov
- Strukturirano sporočilo, s ključnimi podatki za LCL odpremo
- Strukturirano sporočilo sprejme NVOCC agent v sistem ali na e-mail
- Odgovor se pošilja direktno uporabniku po e-mailu
- Samodejno zaznavanje napak sporočil in obveščanje uporabnika



Booking Request

Language: English

Website name and Logo

Home About us Links News Contact Technical Support Intranet

Port Origin: <Port Name + Unloc Code> Port Destination: <Port Name + Unloc Code> Via: 'Direct' or <Port Name + Unloc Code>
ETD: <dd/mm/yyyy> ETA: <dd/mm/yyyy> Transit Time: <days>
Vessel: <Vessel Name> NVOCC: <NVOCC Agent Name> Voyage ID: <Voyage ID>

Service Type: Door To Door

Pickup on: Shipper: [Redacted] Address: [Redacted] Zip Code: [Redacted] City: [Redacted] Country: Select Country Contact: [Redacted] Phone: [Redacted] Email: [Redacted]

Delivery on: Consignee: [Redacted] Address: [Redacted] Zip Code: [Redacted] City: [Redacted] Country: Select Country Contact: [Redacted] Phone: [Redacted] Email: [Redacted]

FForwarder's Ref: [Redacted] Shipper's Ref: [Redacted] Freight Cond: Prepaid/Collect

Comments: [Redacted]

Goods

| # | Packages | Pkg Type | Goods | Gross | RF | DG | | |
|---|----------|----------|-----------|-------|----|----|-----------------------|------------------------|
| 1 | 3 | Pallets | Computers | 300 | | | Modif | Delete |
| 2 | 4 | Pallets | Monitors | 100 | | | Modif | Delete |

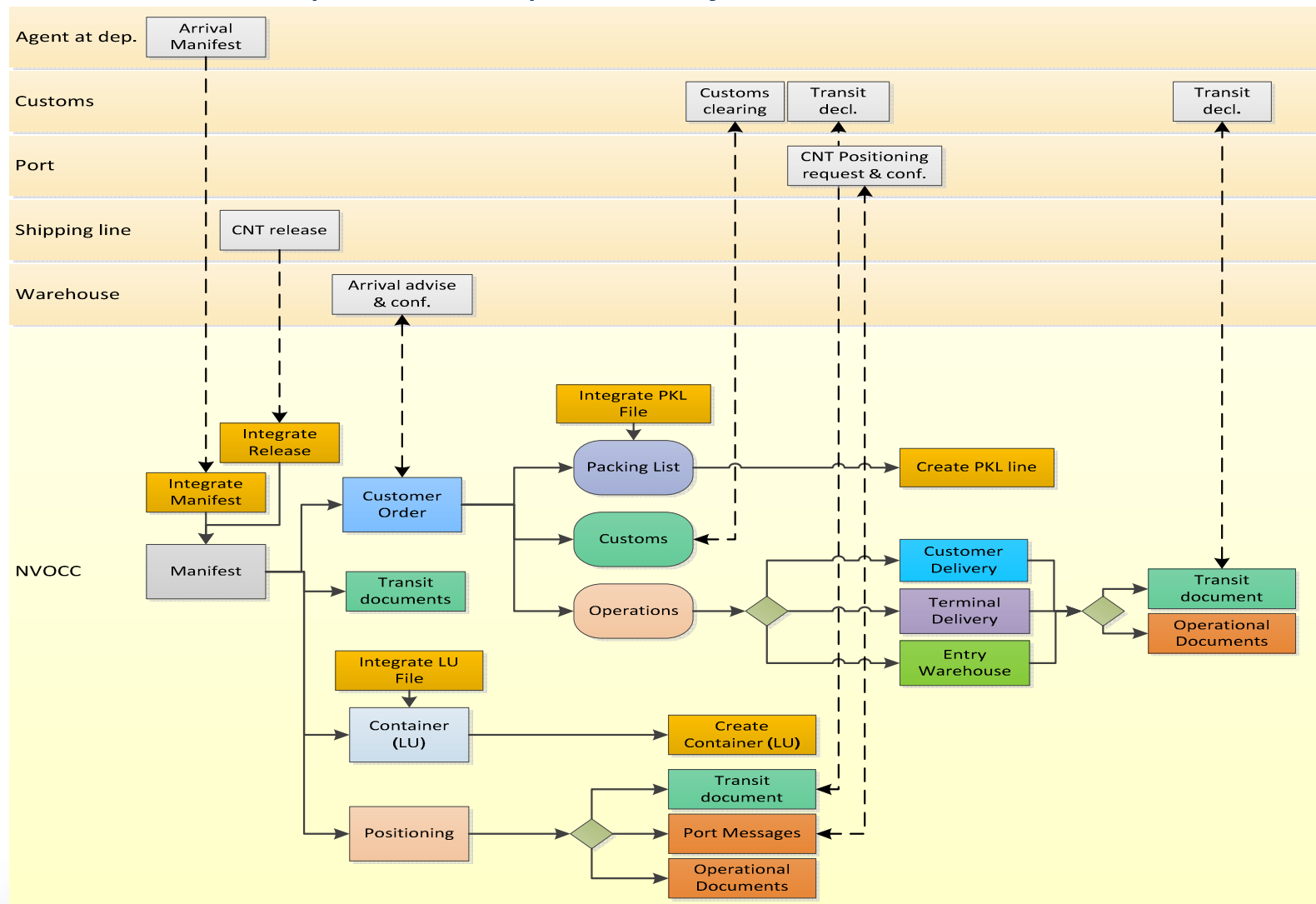
Attachments

| # | Document Name | | |
|---|-----------------------------|----------------------|------------------------|
| 1 | Invoice | Open | Delete |
| 2 | Dangerous Goods Declaration | Open | Delete |

Send Booking Cancel

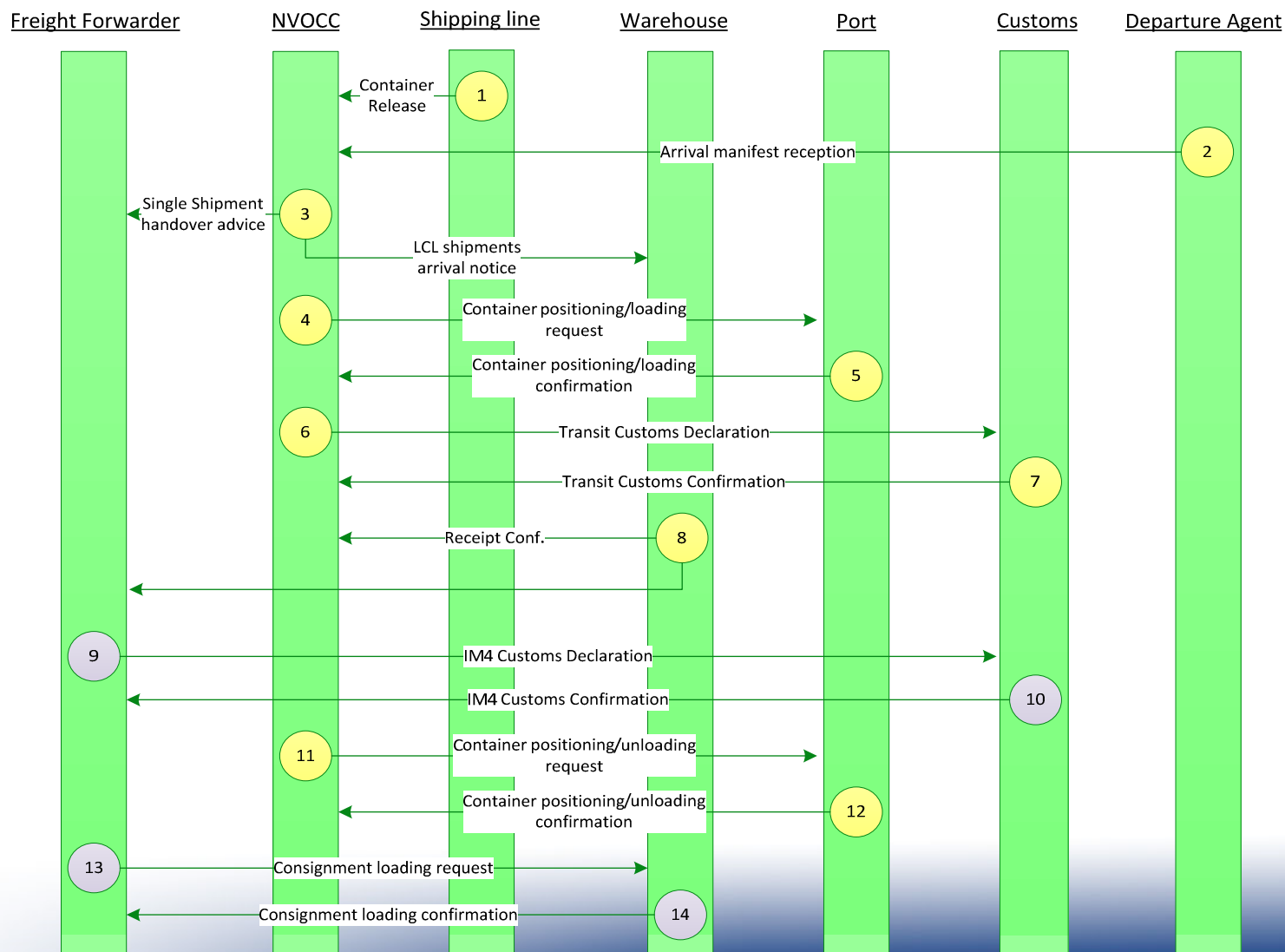
2. Tehnične rešitve

□ Komerzialno-operativna specifikacija na uvozu LCL



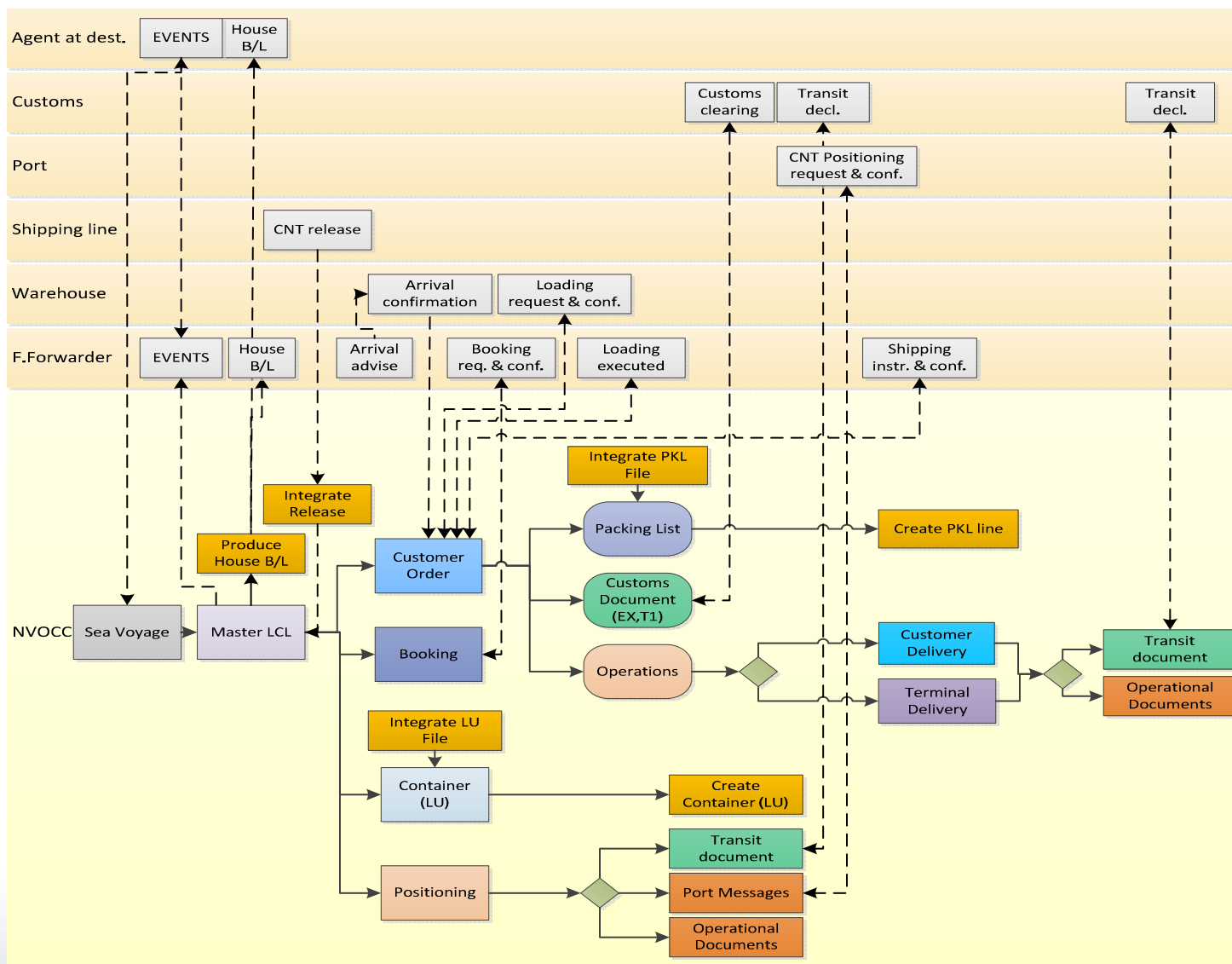
2. Tehnične rešitve

Elektronska komunikacija med deležniki – uvozni proces



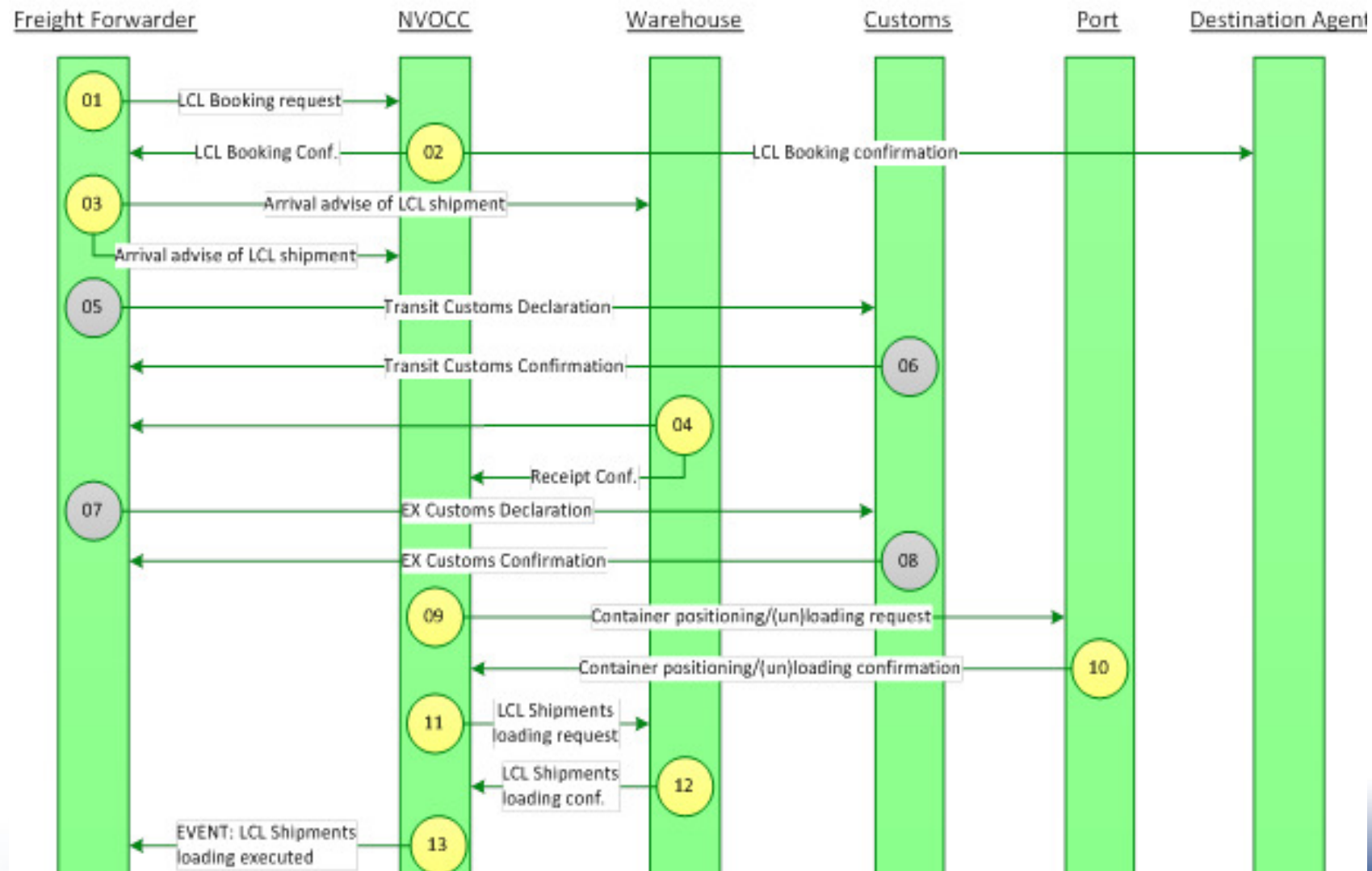
2. Tehnične rešitve

□ Komerzialno-operativna specifikacija procesa v izvozu LCL



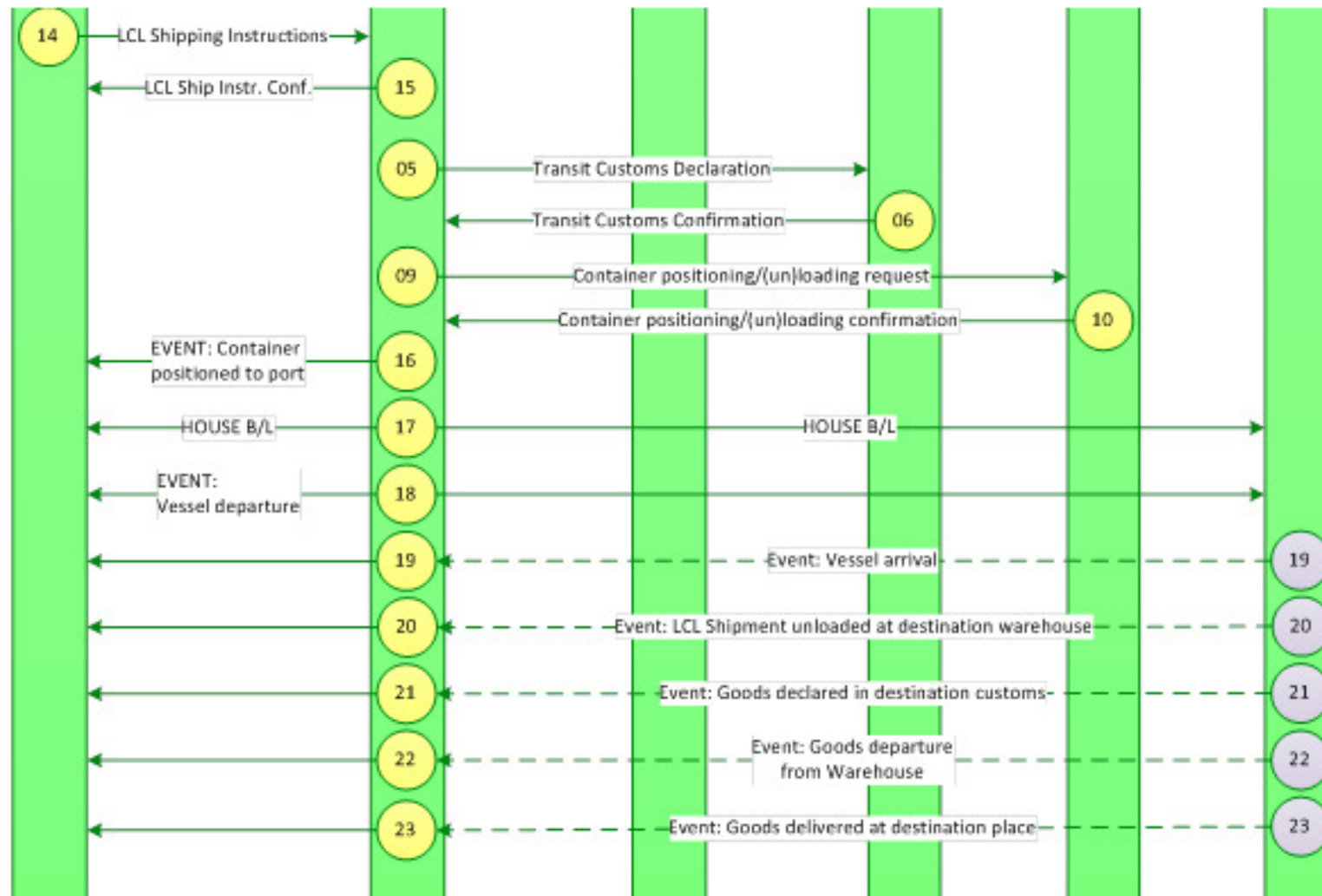
2. Tehnične rešitve

Elektronska komunikacija med vsem deležniki v izvozu LCL-a



2. Tehnične rešitve

- Elektronska komunikacija med vsem deležniki v izvozu LCL-a



2. Tehnične rešitve



□ Opredeljenih 64 potrebnih sporočil za delovanje oskrbne verige zbirnih pomorskih pošiljk

□ Poenotenje struktur = oblikovanih 12 vmesnikov

| # | Msg ID | Message | Sender | Receiver |
|----|--------|---|-----------------------|-------------------------------------|
| 01 | MSG-01 | LCL Booking Request | F.Forwarder | NVOCC |
| 02 | MSG-02 | LCL Booking Confirmation | NVOCC | F.Forwarder - Dest. Agent |
| 03 | MSG-03 | Arrival advise of LCL shipment to Warehouse | F.Forwarder | Warehouse – NVOCC |
| 04 | MSG-04 | Warehouse receipt confirmation | Warehouse | F.Forwarder – NVOCC |
| 05 | MSG-05 | Transit Customs Declaration | F.Forw - NVOCC | Customs |
| 06 | MSG-06 | Transit Customs Confirmation | Customs | F.Forwarder NVOCC |
| 07 | MSG-07 | EX Customs Declaration | F.Forwarder | Customs |
| 08 | MSG-08 | EX Customs Confirmation | Customs | F.Forwarder |
| 09 | MSG-09 | Container positioning/(un)loading request | NVOCC | Port |
| 10 | MSG-10 | Container positioning/(un)loading confirmation | Port | NVOCC |
| 11 | MSG-03 | LCL Shipments loading request | NVOCC | Warehouse |
| 12 | MSG-04 | LCL Shipments loading confirmation | Warehouse | NVOCC |
| 13 | MSG-04 | EVENT: LCL Shipments loading executed | NVOCC | F.Forwarder |
| 14 | MSG-03 | LCL Shipping Instructions | F.Forwarder | NVOCC |
| 15 | MSG-04 | LCL Shipping Instructions Confirmation | NVOCC | F.Forwarder |
| 16 | MSG-04 | Event: Container positioned to port | NVOCC | F.Forwarder |
| 17 | MSG-03 | House B/L | NVOCC | F.Forwarder - Dest.Agent |
| 18 | MSG-04 | Event: Vessel departure | NVOCC | F.Forwarder Dest.Agent |
| 19 | MSG-11 | Event: Vessel arrival | Dest.Agent | NVOCC - F.Forwarder |
| 20 | MSG-11 | Event: LCL Shipment unloaded at destination warehouse | Dest.Agent | NVOCC - F.Forwarder |
| 21 | MSG-11 | Event: Goods declared in destination customs | Dest.Agent | NVOCC - F.Forwarder |
| 22 | MSG-11 | Event: Goods departure from warehouse | Dest.Agent | NVOCC - F.Forwarder |
| 23 | MSG-11 | Event: Goods delivered at destination place | Dest.Agent | NVOCC - F.Forwarder |

2. Tehnične rešitve

□ Definirane strukture sporočil – pošiljanje bookinga/naročila

| | Tag name | description | | type | | repeat |
|--------------------|-------------------|-------------------|--|----------|-------------|---------------|
| HEADER | | | | | | 1 time |
| | IDENTIFIER | | | | mandatory | 1.. |
| | | MESSAGE_NO | message number | char 40 | | |
| | | INTERFACE_ID | interface identification | char 38 | mandatory | |
| | | SENT_DATE | date&time of message preparing | datetime | mandatory | |
| | | SEND_MODE | send mode | char 38 | | |
| | SENDER | | | | mandatory | 1.. |
| | | ORGANIZATION_ID | sender code | char 38 | mandatory | |
| | | ORGANIZATION_NAME | sender name | char 70 | | |
| | RECIPIENT | | | | mandatory | 1.. |
| | | ORGANIZATION_ID | recipient code | char 38 | mandatory | |
| | | ORGANIZATION_NAME | recipient name | char 70 | | |
| SEA_BOOKING | | | | | | mandatory 1.. |
| | REQUEST_NO | | carrier capacity booking | char 30 | mandatory | |
| | GOODS_DESCRIPTION | | description of goods | char 512 | mandatory | |
| | QUANTITY_OF_GOODS | | goods quantity | number | | |
| | QUANTITY_HU | | handling unit of measurement | char 20 | | |
| | WEIGHT | | weight of goods in kg | number | mandatory | |
| | VOLUME | | volume of goods | number | | |
| | VOLUME_UM | | units volume (m3, dm3,...) | char 10 | | |
| | INCOTERMS | | Incoterms code (EXW,...) | char 3 | mandatory | |
| | INCOTERMS_PLACE | | Destination place | char 40 | mandatory | |
| | CONTAINER_TYPE | | container type (DRY, REF, ...) | char 3 | conditional | |
| | CONTAINER_LENGTH | | container length (20, 40, 45) | char 2 | conditional | |
| | CONTAINER_HEIGHT | | container height (10, 16, .. 86, 90, 96) | char 2 | conditional | |
| | CONTAINER_QTY | | container number | number | conditional | |

2. Tehnične rešitve

□ Definirane strukture sporočil – sporočilo o pošiljki v prihodu za skladišče (delna vsebina)

| segment 0.level | segment 1.level | segment 2.level | segment 3.level | segment 4.level | segment 5.level | value | description | type | mandatory | repeat |
|-----------------|-----------------|------------------|--|---------------------------|-----------------|------------------|--|-------------|-------------|---------|
| <WS_MESSAGE> | <WS_HEADER> | <WS_IDENTIFIER> | WS_MESSAGE_NO WS_INTERFACE_ID WS_SENT_DATE WS_SEND_MODE | | | | | | | |
| | | </WS_IDENTIFIER> | | | | | | | | |
| | | <WS_SENDER> | WS_ORGANIZATION_ID WS_ORGANIZATION_NAME | | | | | | | |
| | | </WS_SENDER> | | | | | | | | |
| | | <WS_RECIPIENT> | WS_ORGANIZATION_ID WS_ORGANIZATION_NAME | | | | | | | |
| | | </WS_RECIPIENT> | | | | | | | | |
| | </WS_HEADER> | | | | | | | | | |
| | <EDI_IFCSUM_IN> | <HEADER> | TOTAL_WEIGHT TOTAL_ORDER TOTAL_HU_QTY MANIFEST_EXT_ID REGISTRATION_DATE TRIP_MODE TRAILER_PLATE_NO MEANS_TYPE | | | SEALCL or SEAFCL | (www.kemill.vplj.si na nivo manifesta-LCL all order/a-FCL) | | mandatory | |
| | | | MEANS_CODE | | | VESSEL | vessel's code | char (6) | | |
| * | | | NATIONALITY_MEANS_CODE | | | | country code | char (2) | | |
| * | | | VOYAGE | | | | voyage number | char(15) | | |
| | | | MEANS_PLATE_NO GOODS_AVAILABILITY_DATE SENDER_ID SENDER_NAME CONSIGNEE_ID MANIFEST_TYPE MANIFEST_STATUS XACCOUNT_ID | | | | vessel's name | | | |
| | | </HEADER> | | | | | | | | |
| | | <AGG_CUSORD> | <BL_SPECIFICATION> | | | | | | mandatory | n times |
| * | | | | BL_NO | | | B/L number | char (17) | conditional | 1 time |
| * | | | | PLACE_CODE_OF_RECEIPT_POR | | | place of goods receipt (code) | char (5) | | |
| * | | | | PLACE_OF_RECEIPT_NAME | | | name of place of goods receipt | char (35) | | |
| * | | | | LOAD_PORT_CODE_POL | | | Port of loading code | char (5) | | |
| * | | | | LOAD_PORT_NAME | | | Port of loading name | char (35) | | |
| * | | | | BL_CY_CFS_ITEM | | | Movement mode (e.g.11 (CY-CY)) | char (2) | | |
| * | | | | PREPAID_OR_COLLECT | | | P=Prepay C=Collect | char (1) | | |
| * | | | | LOAD_DATE | | | YYYYMMDD | number 9(8) | | |
| * | | | | QUARANTINE_CODING | | | | char (1) | | |
| * | | | | DATE_OF_ISSUE | | | YYYYMMDD | number 9(8) | | |

2. Tehnične rešitve

□ Definirane strukture sporočil – sporočilo za Tranzitno deklariranje

| Description: | | Final document (NCTS) to move goods from one point to another. Goods are not cleared yet | |
|---------------------------|-----|--|--|
| Direction: | | OUTGOING | |
| Tag name | no. | Type | Description |
| header | 1-1 | | |
| jobRef | 1-1 | | transfer document no. This is the ID in the speditia system. It's the jobReference. Mandatory |
| date | 1-1 | | document date and time |
| documentType | 1-1 | | document type. Values from SIFRANT POLJA 1/3 (see document "Codes in EUL.pdf"). {T, T1, T2} |
| departureCountry | 1-1 | | codes list #25 |
| destinationCountry | 1-1 | | codes list #25 |
| transportType | 1-1 | | transportType. Code list #10. At the moment only value 30 is used (which means Road traffic) |
| truckLicense | 0-1 | | truck license, in case of road traffic. |
| transportMeansNationality | | | transportMeansNationality |
| operator | 1-1 | | Data of the company who is preparing the doc. |
| code | | | code number of operator (the company who is preparing the doc) |
| name | | | operator name |
| address | | | operator address |
| zipCode | | | operator ZIP Code |
| place | | | operator place |
| country | | | operator country code. Code list #25 |
| docId | | | internal identifier. Generated by IE and used internally (LRN) |
| sender | 1-1 | | |
| code | | | code of the goods sender. Usually it's not used, because you don't know the code for foreigner third parties (this will probably change in next years) |
| name | | | sender name |
| address | | | sender address |
| zipCode | | | sender zip code |
| place | | | sender place |
| country | | | sender country |
| senderDocId | | | sender document identifier. Normally this is not used. |
| receiver | 1-1 | | |
| code | | | receiver code |
| name | | | receiver name |
| address | | | receiver address |
| zipCode | | | receiver zip code |
| place | | | receiver place |
| country | | | receiver country |
| receiverDocId | | | receiver document identifier. Normally this is not used. |
| authorizedOperator | 0-1 | | |
| code | | | authorized operator code. This is normally not used. It will be probably used in next years. |
| identifier | | | authorized operator document identifier. Normally this is not used. |
| location | | | location for authorized operator |

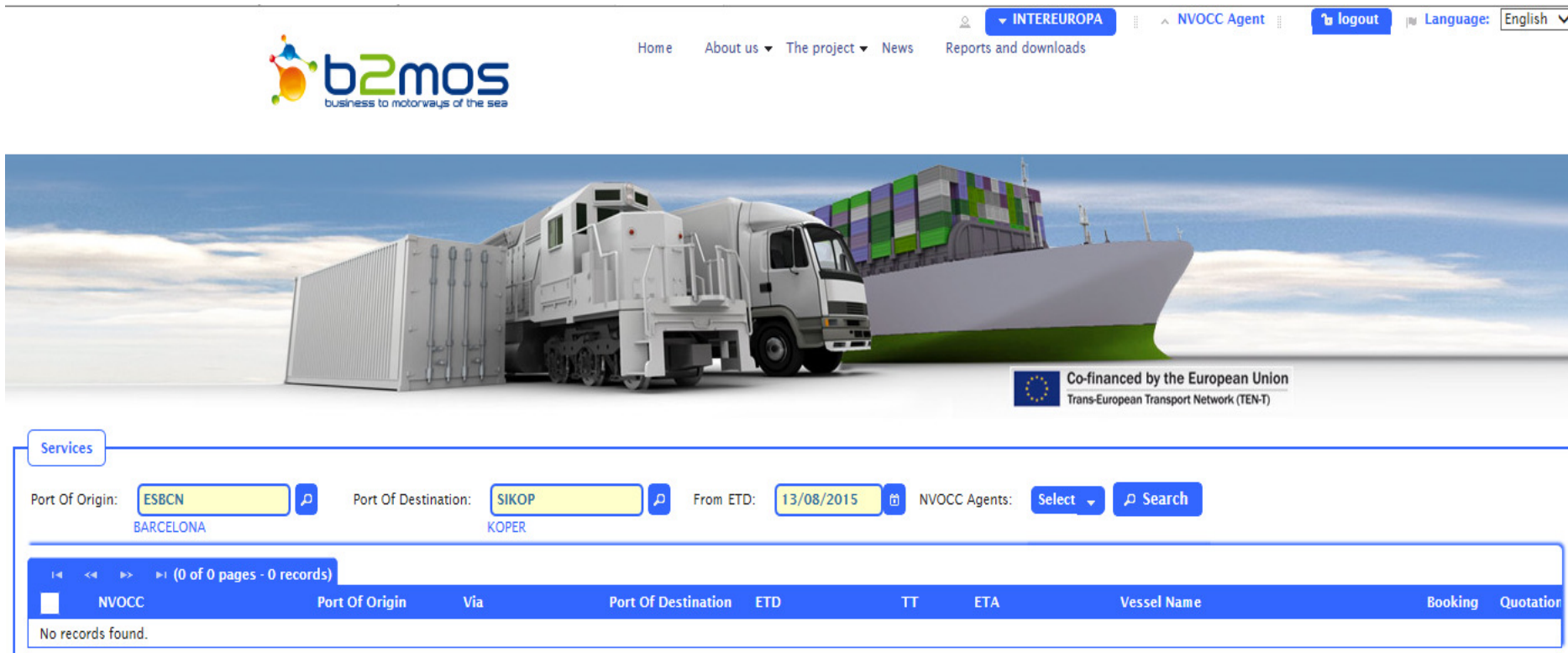
1. Cilji pobude

2. Tehnične zahteve in rešitve

3. Prototipne rešitve



3. Prototipne rešitve



The screenshot shows the b2mos website interface. At the top, there is a navigation menu with links for Home, About us, The project, News, Reports and downloads, and a dropdown menu for INTEREUROPA. There is also a language selector set to English and a logout button. Below the navigation is a large banner image of a truck and a ship, with a text box indicating it is co-financed by the European Union Trans-European Transport Network (TEN-T). The main content area is titled 'Services' and contains a search form with the following fields: Port Of Origin (ESBCN, BARCELONA), Port Of Destination (SIKOP, KOPER), From ETD (13/08/2015), and NVOCC Agents (Select). Below the search form is a table with the following columns: NVOCC, Port Of Origin, Via, Port Of Destination, ETD, TT, ETA, Vessel Name, Booking, and Quotation. The table currently displays 'No records found.'

- Prototipna rešitev spletne strani
- Dostop le registriranim uporabnikom
- Funkcionalnosti vnosa LCL servisov po lukah, pregled LCL servisov, pošiljanje povpraševanj različnim NVOCC operaterjem, pošiljanje naročil za odpremo

3. Prototipne rešitve

☐ Pregled LCL servisov po pristaniščih nakladanja in razkladanja



Services

Port Of Origin: Port Of Destination: From ETD: NVOCC Agents:

VALENCIA SAN SALVADOR

(1 of 1 pages - 4 records)

| <input type="checkbox"/> | NVOCC | Port Of Origin | Via | Port Of Destination | ETD | TT | ETA | Vessel Name | Booking | Quotation |
|--------------------------|-------------------------------------|----------------|-----|---------------------|------------|----|------------|-------------------|----------------------------------|----------------------------------|
| <input type="checkbox"/> | TRANSGLORY | VALENCIA | | SAN SALVADOR | 17-10-2015 | 21 | 07-11-2015 | ROTTERDAM EXPRESS | <input type="button" value="T"/> | <input type="button" value="Q"/> |
| <input type="checkbox"/> | IFS (INTERNATIONAL FORWARDING S.L.) | VALENCIA | | SAN SALVADOR | 17-10-2015 | 21 | 07-11-2015 | ROTTERDAM EXPRESS | <input type="button" value="T"/> | <input type="button" value="Q"/> |
| <input type="checkbox"/> | IFS (INTERNATIONAL FORWARDING S.L.) | VALENCIA | | SAN SALVADOR | 31-10-2015 | 21 | 21-11-2015 | TBN | <input type="button" value="T"/> | <input type="button" value="Q"/> |
| <input type="checkbox"/> | TRANSGLORY | VALENCIA | | SAN SALVADOR | 03-11-2015 | 21 | 23-11-2015 | EMMA MAERSK | <input type="button" value="T"/> | <input type="button" value="Q"/> |

Kreiranje povpraševanja ali bookiranje

Izbira po NVOCC in servisu

3. Prototipne rešitve

Home About us The project News Reports and downloads **FREIGHT FORWARDER** User

b2mos
business to motorways of the sea

Port Of Origin: **ESVLC VALENCIA** Port Of Destination: **SVSAL SAN SALVADOR** Via:
ETD: **17/10/2015** ETA: **07/11/2015** Transit Time: **21**
Vessel: **ROTTERDAM EXPRESS** Lloyds register: **9193317** NVOCC Agent: **IFS (INTERNATIONAL FORWARDING S.L.)**
Voyage ID:

Service Type: **Port To Port** Forwarder Reference: **ME15/0009** Shipper Reference: **15-6654** Payment Conditions: **Prepaid**
Place of receipt: Place of delivery:
Comments: **FRAGILE**

Shipper **Consignee**

Name: **WOODSPECIAL, S.A.** Name: **FURNITURES CO**
Address: **ALTS FORNS, 67** Address: **SUNSHINE AV, 74**
Zip code: **08038** City: **BARCELONA** Zip code: **08830-4112** City: **NEW JERSEY**
Country: **SPAIN** Country: **UNITED STATES**
Contact: **FELIX MARTINEZ** Contact: **JOHN SMITH**
Phone: **555121** EMail: **fmartinez@woodspecial.es** Phone: **555121** EMail: **smith@furnitures.com**

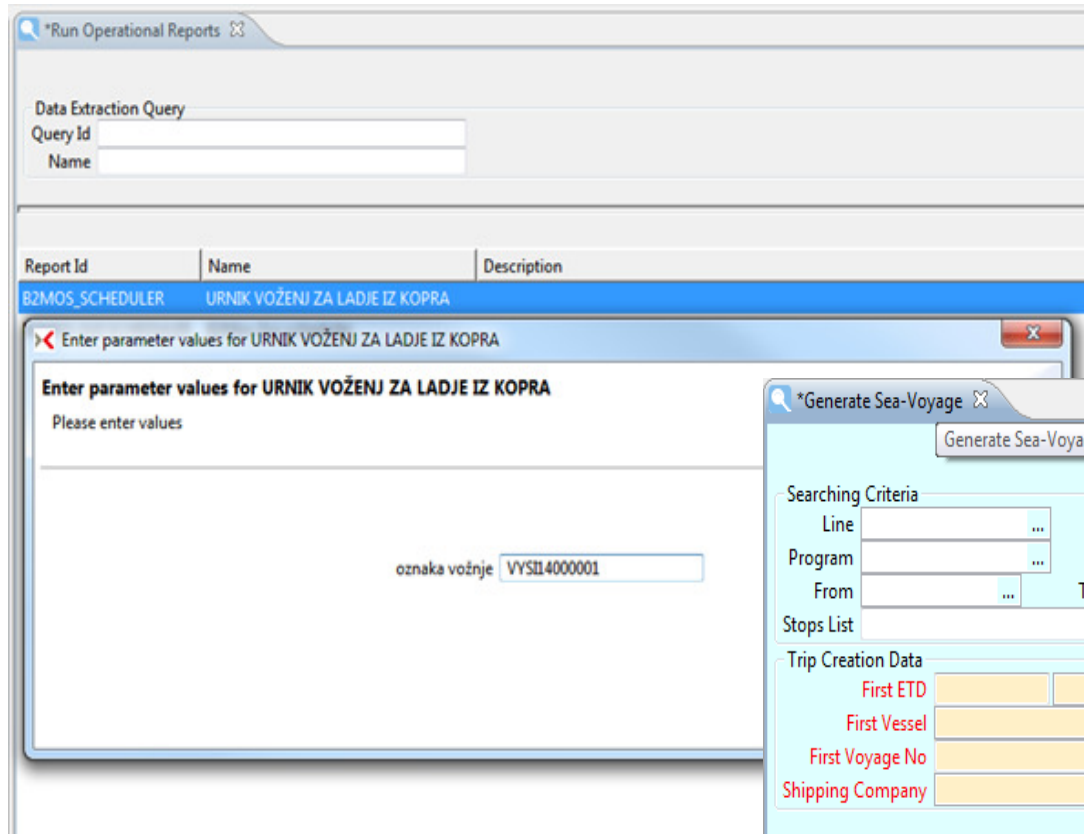
Goods **+ Add goods**

| # | Packages | Package Type | Description | Gross Weight | Options |
|---|----------|--------------|-------------|--------------|---------|
| 1 | 9 | PALLETS | SOFA PIECES | 1,500 | |

Vnos ključnih podatkov o pošiljki

3. Prototipne rešitve

- ❑ Kreiranje urnika voženj + sproži se xml sporočilo na Porticov sistem
- ❑ Preko portala prejem naročila/bookinga



*Run Operational Reports

Data Extraction Query
Query Id
Name

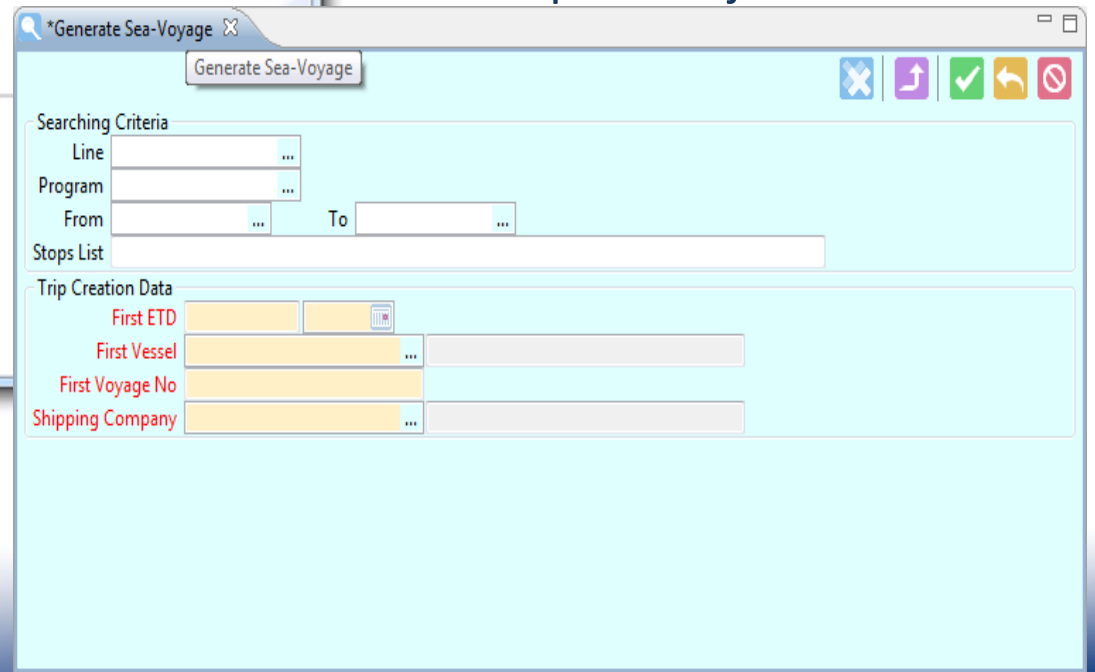
| Report Id | Name | Description |
|-----------------|--------------------------------|-------------|
| B2MOS_SCHEDULER | URNIK VOŽENJ ZA LADJE IZ KOPRA | |

Enter parameter values for URNIK VOŽENJ ZA LADJE IZ KOPRA

Please enter values

oznaka vožnje VYSII4000001

- ❑ Za vsako odpremo se odpre novo potovanje



*Generate Sea-Voyage

Generate Sea-Voyage

Searching Criteria

Line
Program
From To
Stops List

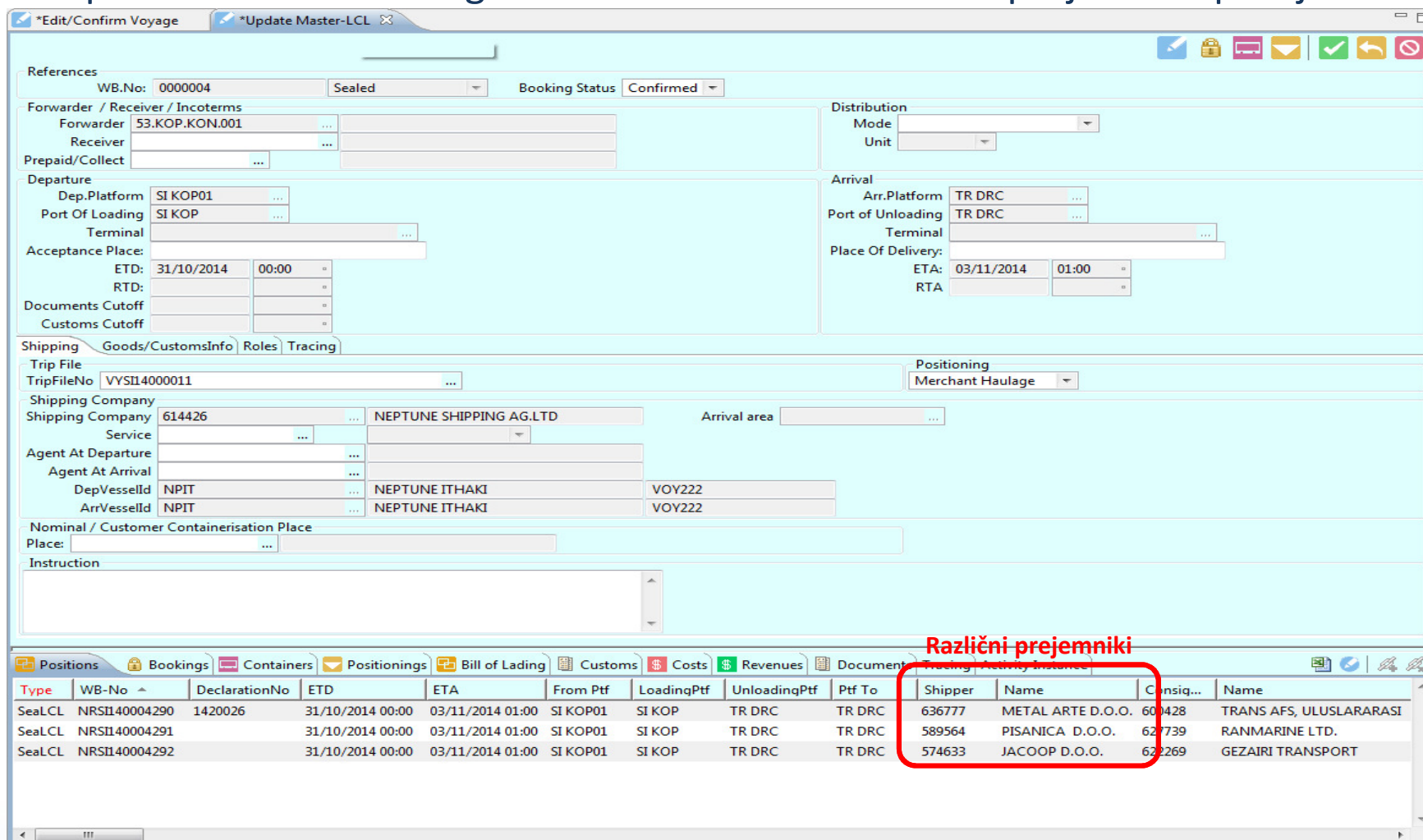
Trip Creation Data

First ETD
First Vessel
First Voyage No
Shipping Company

3. Prototipne rešitve

□ IZVOZ - Kreiranje zbirnega izvoznega naloga

□ Uporabnik za vsak nalog naredi naročilo skladišču za sprejem LCL pošiljke



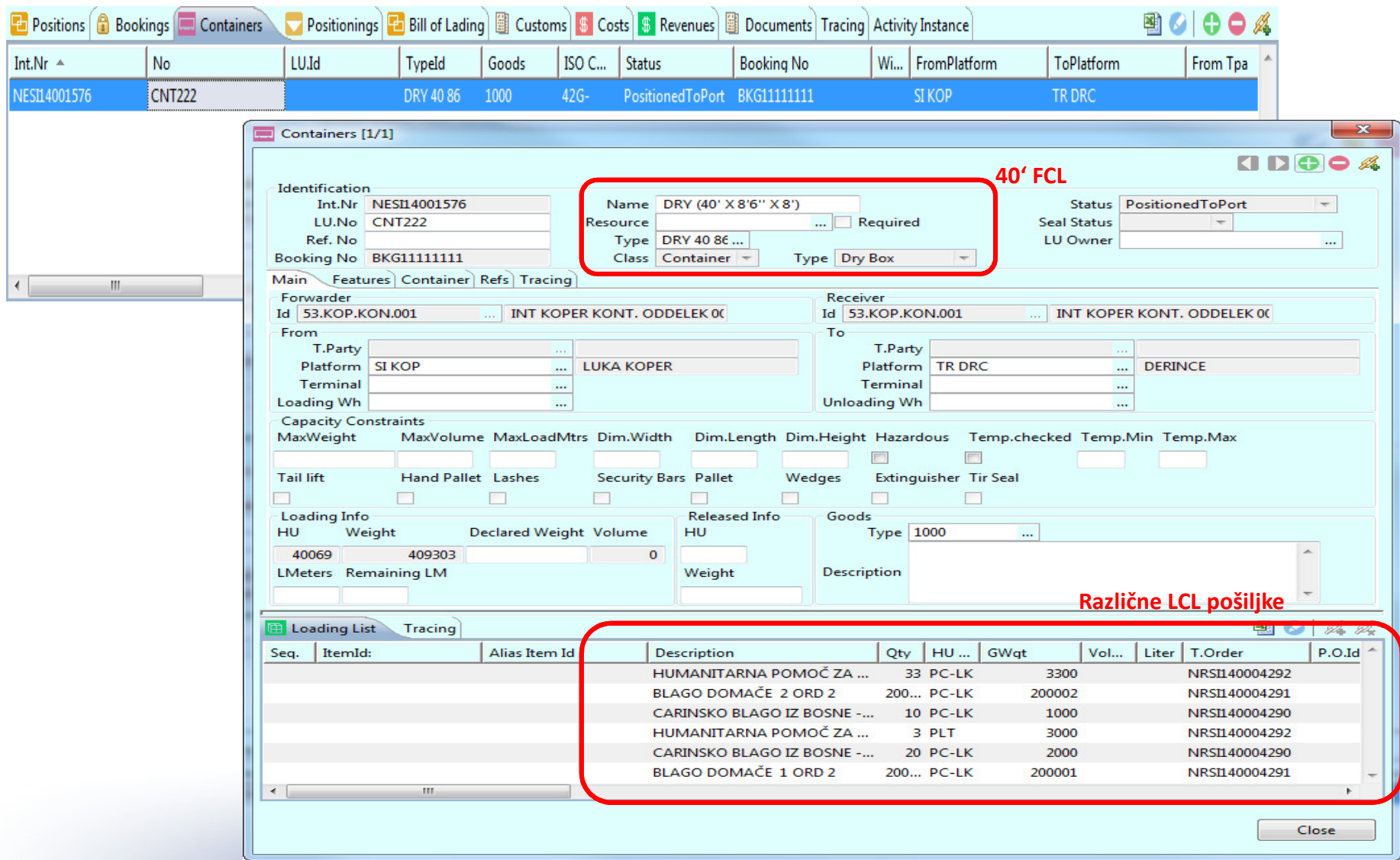
The screenshot displays a software interface for managing shipping voyages. The top section shows voyage details for WB.No: 0000004, Sealed, and Booking Status: Confirmed. It includes fields for Forwarder (53.KOP.KON.001), Receiver, and Prepaid/Collect. The Departure section lists Dep.Platform (SI KOP01), Port Of Loading (SI KOP), and Terminal. The Arrival section lists Arr.Platform (TR DRC), Port Of Unloading (TR DRC), and Terminal. The Trip File section shows TripFileNo (VYSI14000011) and Positioning (Merchant Haulage). The Shipping Company section lists 614426 (NEPTUNE SHIPPING AG.LTD) and Arrival area. The Nominal / Customer Containerisation Place section shows Place. The Instruction section is empty.

Različni prejemniki

| Type | WB-No | DeclarationNo | ETD | ETA | From Ptf | LoadingPtf | UnloadingPtf | Ptf To | Shipper | Name | Consig... | Name |
|--------|---------------|---------------|------------------|------------------|----------|------------|--------------|--------|---------|-------------------|-----------|-------------------------|
| SeaLCL | NRSI140004290 | 1420026 | 31/10/2014 00:00 | 03/11/2014 01:00 | SI KOP01 | SI KOP | TR DRC | TR DRC | 636777 | METAL ARTE D.O.O. | 600428 | TRANS AFS, ULUSLARARASI |
| SeaLCL | NRSI140004291 | | 31/10/2014 00:00 | 03/11/2014 01:00 | SI KOP01 | SI KOP | TR DRC | TR DRC | 589564 | PISANICA D.O.O. | 627739 | RANMARINE LTD. |
| SeaLCL | NRSI140004292 | | 31/10/2014 00:00 | 03/11/2014 01:00 | SI KOP01 | SI KOP | TR DRC | TR DRC | 574633 | JACOOP D.O.O. | 622269 | GEZAIRI TRANSPORT |

3. Prototipne rešitve

❑ Sistem generira pozicioniranje praznega kontejnerja (kasneje tudi odstava)



The screenshot displays the b2mos software interface. At the top, a menu bar includes options like Positions, Bookings, Containers, Positionings, Bill of Lading, Customs, Costs, Revenues, Documents, Tracing, and Activity Instance. Below this is a table with columns: Int.Nr, No, LU.Id, Typeld, Goods, ISO C..., Status, Booking No, Wi..., FromPlatform, ToPlatform, and From Tpa. The selected row shows Int.Nr NES114001576, No CNT222, LU.Id DRY 40 86, Typeld 1000, ISO C... 42G-, Status PositionedToPort, Booking No BKG11111111, Wi... SI KOP, ToPlatform TR DRC, and From Tpa.

The main window is titled "Containers [1/1]" and contains several sections:

- Identification:** Fields for Int.Nr (NES114001576), LU.No (CNT222), Ref. No, and Booking No (BKG11111111).
- Name:** DRY (40' X 8'6" X 8') - This field is highlighted with a red box.
- Resource:** DRY 40 86... - This field is also highlighted with a red box.
- Type:** DRY 40 86... - This field is highlighted with a red box.
- Class:** Container - This field is highlighted with a red box.
- Type:** Dry Box - This field is highlighted with a red box.
- Status:** PositionedToPort
- Seal Status:** (empty)
- LU Owner:** (empty)

Below the identification section, there are tabs for Main, Features, Container, Refs, and Tracing. The "Main" tab is active, showing:

- Forwarder:** Id 53.KOP.KON.001, INT KOPER KONT. ODDELEK 00
- Receiver:** Id 53.KOP.KON.001, INT KOPER KONT. ODDELEK 00
- From:** T.Party, Platform (SI KOP), Terminal, Loading Wh.
- To:** T.Party, Platform (TR DRC), Terminal, Unloading Wh.
- Capacity Constraints:** MaxWeight, MaxVolume, MaxLoadMtrs, Dim.Width, Dim.Length, Dim.Height, Hazardous, Temp.checked, Temp.Min, Temp.Max.
- Tail lift, Hand Pallet, Lashes, Security Bars, Pallet, Wedges, Extinguisher, Tir Seal:** (checkboxes)
- Loading Info:** HU, Weight, Declared Weight, Volume.
- Released Info:** HU, Weight.
- Goods:** Type 1000, Description.

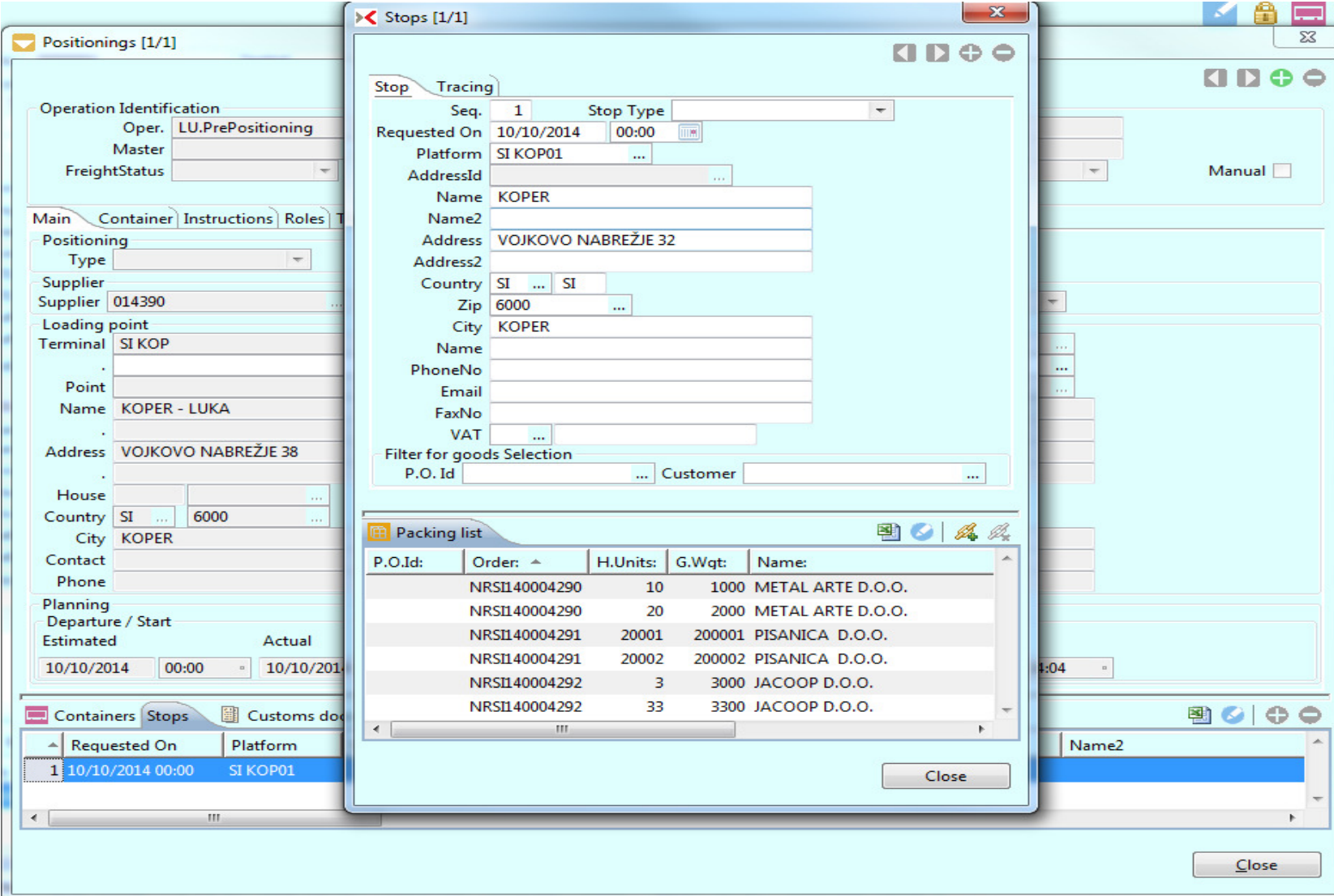
At the bottom, there is a "Loading List" section with a table:

| Seq. | ItemId: | Alias Item Id | Description | Qty | HU ... | GWqt | Vol... | Liter | T.Order | P.O.Id |
|------|---------|---------------|------------------------------|--------|--------|--------|--------|-------|---------------|--------|
| | | | HUMANITARNA POMOČ ZA ... | 33 | PC-LK | 3300 | | | NRS1140004292 | |
| | | | BLAGO DOMAČE 2 ORD 2 | 200... | PC-LK | 200002 | | | NRS1140004291 | |
| | | | CARINSKO BLAGO IZ BOSNE -... | 10 | PC-LK | 1000 | | | NRS1140004290 | |
| | | | HUMANITARNA POMOČ ZA ... | 3 | PLT | 3000 | | | NRS1140004292 | |
| | | | CARINSKO BLAGO IZ BOSNE -... | 20 | PC-LK | 2000 | | | NRS1140004290 | |
| | | | BLAGO DOMAČE 1 ORD 2 | 200... | PC-LK | 200001 | | | NRS1140004291 | |

The table is highlighted with a red box. The text "Različne LCL pošiljke" is written in red next to the table.

3. Prototipne rešitve

- ❑ Preko sistema se generira naročilo za polnjenje kontejnerja



The screenshot displays a software interface with a 'Positionings [1/1]' form in the background and a 'Stops [1/1]' dialog box in the foreground. The dialog box is divided into two sections: 'Stop Tracing' and 'Packing list'.

Stop Tracing

Seq: 1 Stop Type: [dropdown]
Requested On: 10/10/2014 00:00
Platform: SI KOP01
AddressId: [dropdown]
Name: KOPER
Name2: [dropdown]
Address: VOJKOVO NABREŽJE 32
Address2: [dropdown]
Country: SI SI
Zip: 6000
City: KOPER
Name: [dropdown]
PhoneNo: [dropdown]
Email: [dropdown]
FaxNo: [dropdown]
VAT: [dropdown]
Filter for goods Selection
P.O. Id: [dropdown] Customer: [dropdown]

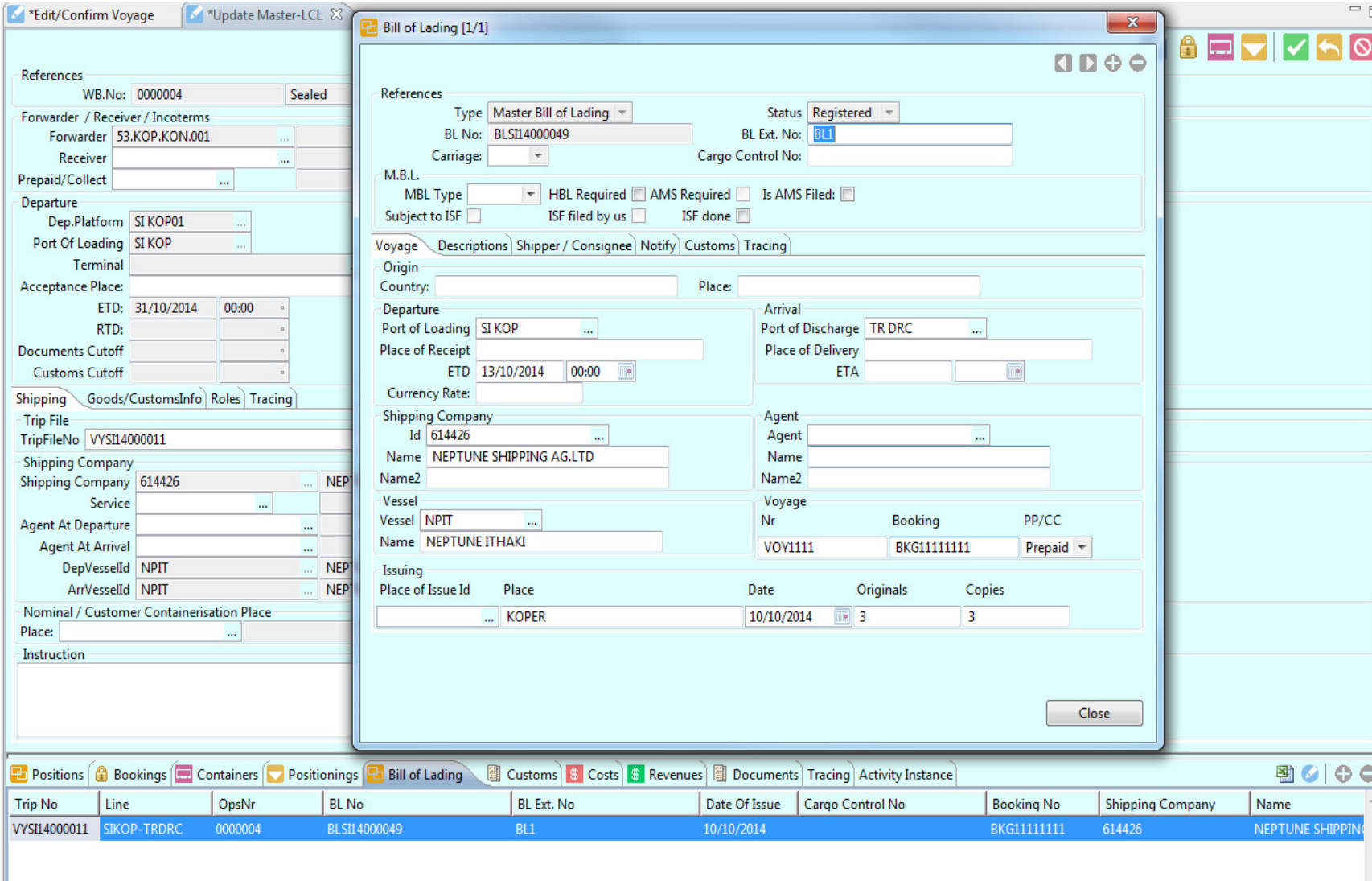
Packing list

| P.O.Id: | Order: | H.Units: | G.Wgt: | Name: |
|---------------|--------|----------|-------------------|-------|
| NRSI140004290 | 10 | 1000 | METAL ARTE D.O.O. | |
| NRSI140004290 | 20 | 2000 | METAL ARTE D.O.O. | |
| NRSI140004291 | 20001 | 200001 | PISANICA D.O.O. | |
| NRSI140004291 | 20002 | 200002 | PISANICA D.O.O. | |
| NRSI140004292 | 3 | 3000 | JACOOP D.O.O. | |
| NRSI140004292 | 33 | 3300 | JACOOP D.O.O. | |

The background 'Positionings [1/1]' form shows details for a positioning operation, including 'Operation Identification', 'Main Container', 'Loading point', and 'Planning' sections. The 'Stops' tab is active, showing a table with columns for 'Requested On' and 'Platform', with one entry: '1 10/10/2014 00:00 SI KOP01'.

3. Prototipne rešitve

Prejem sporočila z navodili za pripravo HB/L-a



The screenshot displays a software interface for managing Bills of Lading (BL). The main window, titled "Bill of Lading [1/1]", contains the following fields and sections:

- References:** Type: Master Bill of Lading, Status: Registered, BL No: BLS114000049, BL Ext. No: BL1.
- M.B.L.:** MBL Type, HBL Required, AMS Required, Is AMS Filed, Subject to ISF, ISF filed by us, ISF done.
- Voyage:** Descriptions, Shipper / Consignee, Notify, Customs, Tracing.
- Origin:** Country, Place.
- Departure:** Port of Loading: SI KOP, Place of Receipt, ETD: 13/10/2014 00:00, Currency Rate.
- Arrival:** Port of Discharge: TR DRC, Place of Delivery, ETA.
- Shipping Company:** Id: 614426, Name: NEPTUNE SHIPPING AG.LTD, Name2.
- Agent:** Agent, Name, Name2.
- Vessel:** Vessel: NPIT, Name: NEPTUNE ITHAKI.
- Voyage:** Nr: VOY1111, Booking: BKG11111111, PP/CC: Prepaid.
- Issuing:** Table with columns: Place of Issue Id, Place, Date, Originals, Copies. Row: KOPER, 10/10/2014, 3, 3.

The secondary window on the left, titled "*Edit/Confirm Voyage", shows voyage details:

- References:** WB.No: 0000004, Sealed.
- Forwarder / Receiver / Incoterms:** Forwarder: 53.KOP.KON.001, Receiver.
- Departure:** Dep.Platform: SI KOP01, Port Of Loading: SI KOP, Terminal.
- Acceptance Place:** ETD: 31/10/2014 00:00, RTD, Documents Cutoff, Customs Cutoff.
- Shipping:** Goods/CustomsInfo, Roles, Tracing.
- Trip File:** TripFileNo: VYS114000011.
- Shipping Company:** Shipping Company: 614426, Service, Agent At Departure, Agent At Arrival, DepVesselId: NPIT, ArrVesselId: NPIT.
- Nominal / Customer Containerisation Place:** Place.
- Instruction:**

At the bottom of the interface, a table lists the BL records:

| Trip No | Line | OpsNr | BL No | BL Ext. No | Date Of Issue | Cargo Control No | Booking No | Shipping Company | Name |
|--------------|-------------|---------|--------------|------------|---------------|------------------|-------------|------------------|------------------|
| VYS114000011 | SIKOP-TRDRC | 0000004 | BLS114000049 | BL1 | 10/10/2014 | | BKG11111111 | 614426 | NEPTUNE SHIPPING |

3. Prototipne rešitve

- ❑ V ozadju se kreirajo sporočila o statusu pošiljke
- ❑ Izmenjava sporočil med odpremnim in prejemnim špediterjem
- ❑ Možna direktna integracija sporočanja s prejemnikom in pošiljateljem, zaradi standardiziranih struktur sporočil

| # | Msg ID | Message | Sender | Receiver |
|----|--------|---|-----------------------|-------------------------------------|
| 16 | MSG-04 | Event: Container positioned to port | NVOCC | F.Forwarder |
| 13 | MSG-04 | EVENT: LCL Shipments loading executed | NVOCC | F.Forwarder |
| 18 | MSG-04 | Event: Vessel departure | NVOCC | F.Forwarder - Dest.Agent |
| 19 | MSG-11 | Event: Vessel arrival | Dest.Agent | NVOCC - F.Forwarder |
| 20 | MSG-11 | Event: LCL Shipment unloaded at destination warehouse | Dest.Agent | NVOCC - F.Forwarder |
| 21 | MSG-11 | Event: Goods declared in destination customs | Dest.Agent | NVOCC - F.Forwarder |
| 22 | MSG-11 | Event: Goods departure from warehouse | Dest.Agent | NVOCC - F.Forwarder |
| 23 | MSG-11 | Event: Goods delivered at destination place | Dest.Agent | NVOCC - F.Forwarder |

3. Prototipne rešitve

UVOZ - Integracija vhodnega sporočila in kreiranje manifesta za cel kont.

Display Manifest

Identification
 Manifest Nr: BOS1150000087 Ext.Ref Nr:
 Type: Arrival/Import Manifest Mode: Sea-LCL
 Pick-Up Nr: Status: Confirmed

Main | Trip | Tracing

Port Of Loading
 Ptf BE ANR BE
 ... ANTWERPEN
 POL BE ANR
 Name ANTWERPEN
 AvailabilityDate 12/02/2015 00:00
 Sender 627138
 ... ECU-LINE NV
 Generate pre-carriage

Port Of Discharge
 POD SI KOP
 ... LUKA KOPER
 Ptf SI KOP01 SI
 ... CARINSKO SKLADIŠČE KOPER
 Reception Date 12/02/2015 00:00
 Receiver 53.KOP.KON.001
 ... INT KOPER KONT. ODDELEK 001
 Generate post-carriage

Sea References
 B.L. Nr
 Arr.Voyage No
 Sealine 619589 MAERSK LINE
 Vessel NPIT
 Shipping agent 158940 MAERSK ADRIA D.O.O.

Additional Costs
 Add.Costs Supplier Bought Product

Port Entry
 Port Entry No

Exchange Rates
 From Curr: Target Curr: Rate:
 Target Curr: Rate:
 Target Curr: Rate:

Order Default Values
 Default Product 53 Default Incoterms DDU

Customer Orders Activity Instance Tracing cust.orders Loading Units Post posit. Documents Customs Transit Cost Rating Logs

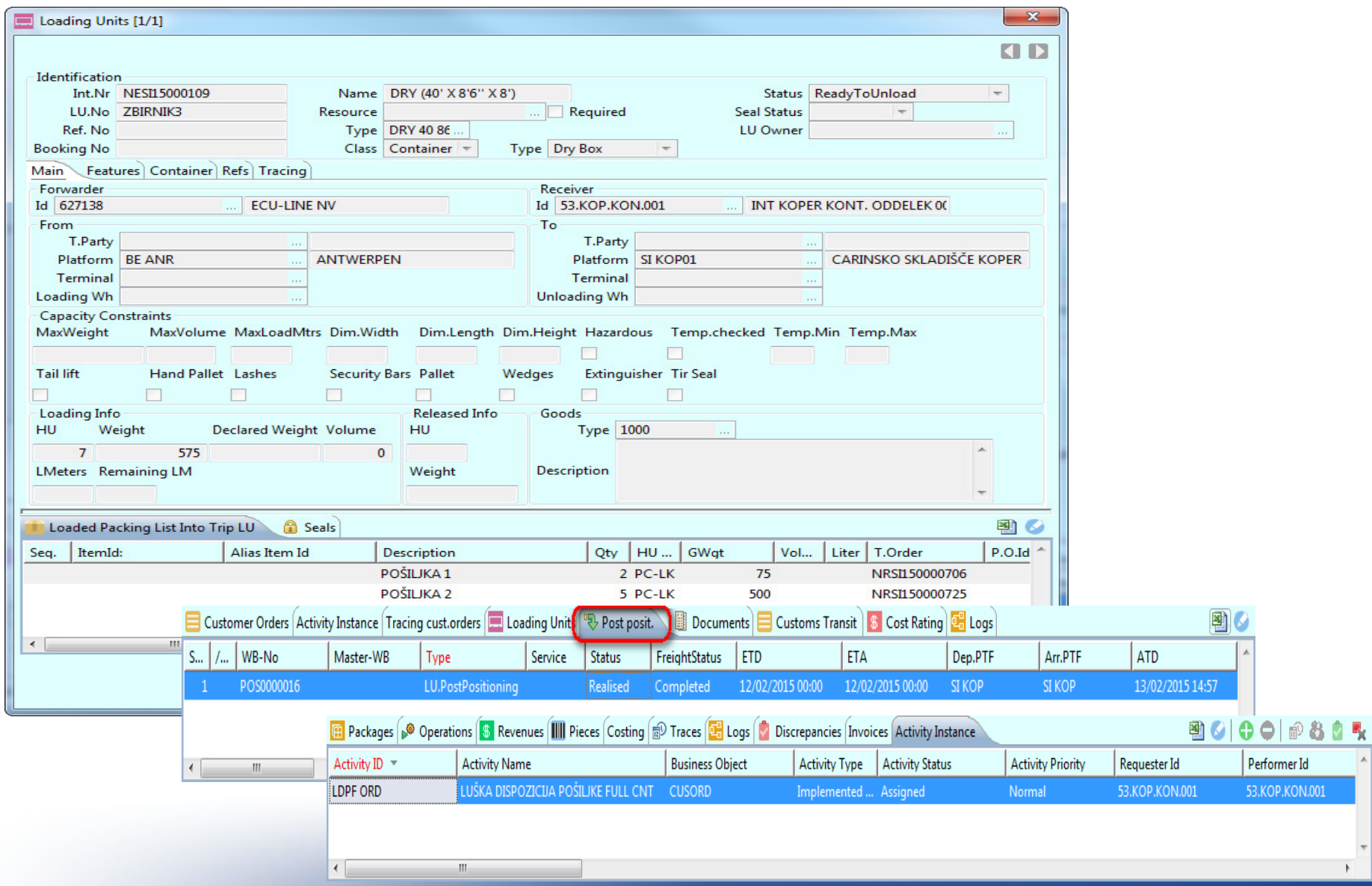
| OrderNo | Product | Incoterm | FirstOper... | Consignor | Address | Country | Zip | City | Consignee | Address | Country... | Zip | City | HL |
|--------------|---------|----------|--------------|------------------------|--------------------|---------|------|-----------|---------------------------|---------------|------------|------|----------------|----|
| 2 | | | | | | | | | | | | | | |
| NRS115000706 | 53 | DDU | Reception | ECU-LINE NV | SCHOUWKENSSTRAAT 1 | BE | 2030 | ANTWERPEN | GRADBENA MEHANIZACIJA-... | SENČNA POT 10 | SI | 6310 | IZOLA - ISO... | |
| NRS115000725 | 53 | DDU | Reception | EUROPEAN TRANSPORT LAW | HENRIETTALEI 1 | BE | 2018 | ANTWERPEN | AKVIZ D.O.O. | KEŠETOVO 9 | SI | 1420 | TRBOVLJE | |

Customer Orders Activity Instance Tracing cust.orders Loading Units Post posit. Documents Customs Transit Cost Rating Logs

| Int.Nr | No | LU.Id | TypeId | Goods | ISO C... | Status | Booking No | Wi... | FromPlatform | ToPlatform | From Tpa |
|--------------|----------|-------|-----------|-------|----------|---------------|------------|-------|--------------|------------|----------|
| NES115000109 | ZBIRNIK3 | | DRY 40 86 | 1000 | 42G- | ReadyToUnl... | | | BE ANR | SI KOP01 | |

3. Prototipne rešitve

☐ Sistem avtomatsko generira več operacij: dostava kont., uvozno carinjenje...



The screenshot displays a software interface for managing Loading Units (LU). The main window, titled "Loading Units [1/1]", shows details for a container with the following information:

- Identification:** Int.Nr: NES115000109, LU.No: ZBIRNIK3, Name: DRY (40' X 8'6" X 8'), Status: ReadyToUnload, Type: Dry Box, Class: Container.
- Forwarder:** Id: 627138, Name: ECU-LINE NV.
- Receiver:** Id: 53.KOP.KON.001, Name: INT KOPER KONT. ODDELEK 00.
- From:** T.Party: BE ANR, Platform: ANTWERPEN.
- To:** T.Party: SI KOP01, Platform: CARINSKO SKLADIŠČE KOPER.
- Capacity Constraints:** MaxWeight, MaxVolume, MaxLoadMtrs, Dim.Width, Dim.Length, Dim.Height, Hazardous, Temp.checked, Temp.Min, Temp.Max.
- Loading Info:** HU: 7, Weight: 575, Declared Weight: 0, Volume: 0.
- Goods:** Type: 1000.

Below the main window, a "Loaded Packing List Into Trip LU" table is visible:

| Seq. | ItemId: | Alias Item Id | Description | Qty | HU ... | GWgt | Vol... | Liter | T.Order | P.O.Id |
|------|---------|---------------|-------------|-----|--------|------|--------|-------|---------------|--------|
| | | | POŠILJKA 1 | 2 | PC-LK | 75 | | | NRS1150000706 | |
| | | | POŠILJKA 2 | 5 | PC-LK | 500 | | | NRS1150000725 | |

The interface also shows a "Post posit." button highlighted in red, and a table of activity instances:

| S... | /... | WB-No | Master-WB | Type | Service | Status | FreightStatus | ETD | ETA | Dep.PTF | Arr.PTF | ATD |
|------|------|------------|-----------|--------------------|---------|----------|---------------|------------------|------------------|---------|---------|------------------|
| 1 | | POS0000016 | | LU.PostPositioning | | Realised | Completed | 12/02/2015 00:00 | 12/02/2015 00:00 | SI KOP | SI KOP | 13/02/2015 14:57 |

At the bottom, another table shows activity details:

| Activity ID | Activity Name | Business Object | Activity Type | Activity Status | Activity Priority | Requester Id | Performer Id |
|-------------|-------------------------------------|-----------------|-----------------|-----------------|-------------------|----------------|----------------|
| LDPF ORD | LUŠKA DISPOZICIJA POŠILJKE FULL CNT | CUSORD | Implemented ... | Assigned | Normal | 53.KOP.KON.001 | 53.KOP.KON.001 |

3. Prototipne rešitve

☐ Sistemsko kreirana sporočila

- Sporočilo za dostavo polnega kontejnerja - exit from port terminal

| # | Msg ID | Message | Sender | Receiver |
|----|--------|------------------------------|---------|----------|
| 06 | MSG-05 | Transit Customs Declaration | NVOCC | Customs |
| 07 | MSG-06 | Transit Customs Confirmation | Customs | NVOCC |

- Sporočilo za carino – tranzit iz terminala do skladišča

| # | Msg ID | Message | Sender | Receiver |
|----|--------|--|--------|----------|
| 04 | MSG-09 | Container positioning/loading request | NVOCC | Port |
| 05 | MSG-10 | Container positioning/loading confirmation | Port | NVOCC |

- Sporočilo za odstavo praznega kontejnerja na KT

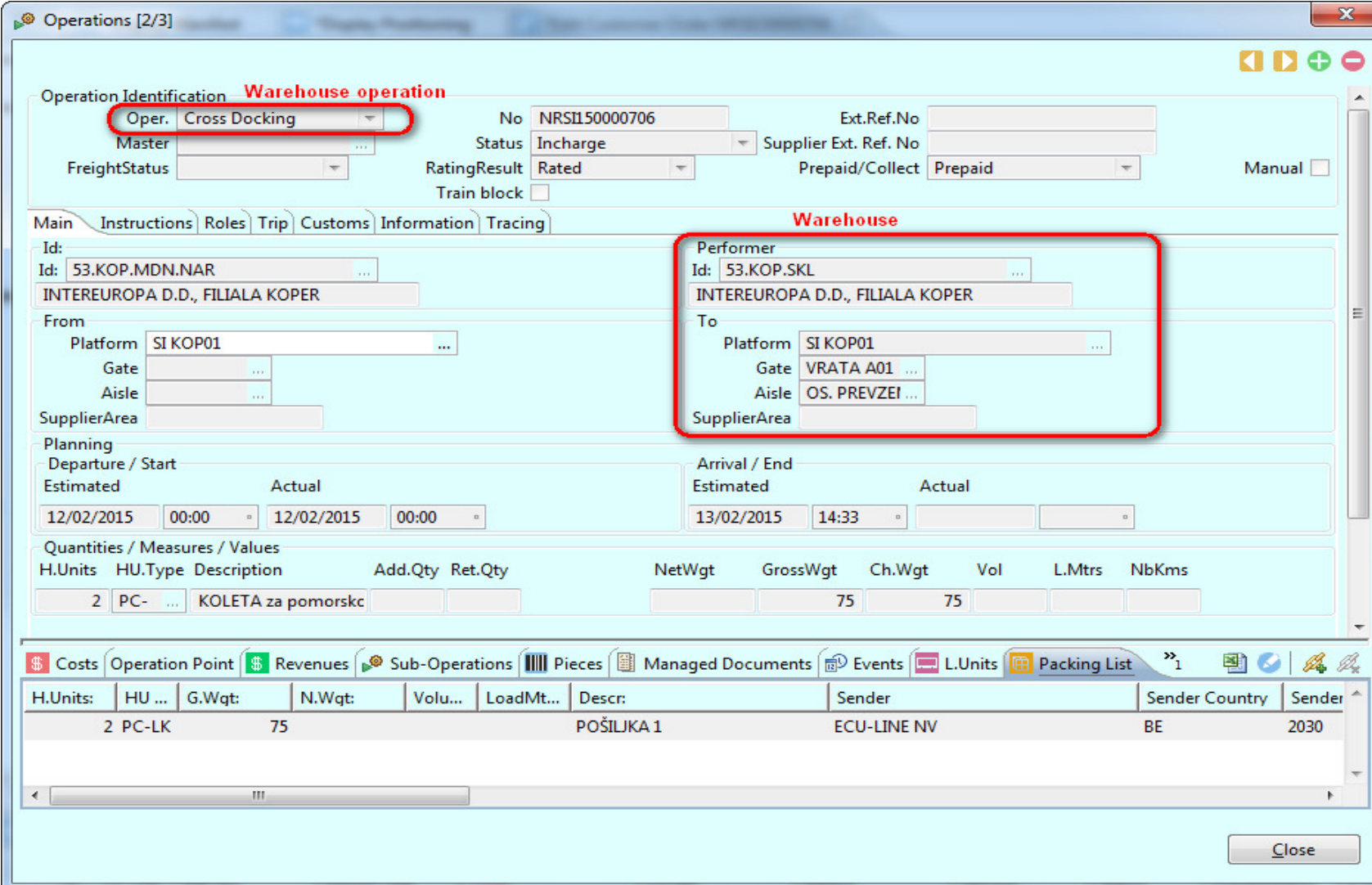
| # | Msg ID | Message | Sender | Receiver |
|----|--------|--|--------|----------|
| 11 | MSG-09 | Container positioning/unloading request | NVOCC | Port |
| 12 | MSG-10 | Container positioning/unloading confirmation | Port | NVOCC |

- Nalog skladišču in potrdilo o uskladiščenju

| # | Msg ID | Message | Sender | Receiver |
|----|--------|---|-----------|--------------------------|
| 03 | MSG-03 | Arrival advise of LCL shipment to Warehouse and Freight Forwarder | NVOCC | Warehouse F.Forwarder |
| 08 | MSG-04 | Warehouse receipt confirmation | Warehouse | NVOCC F.Forwarder |

3. Prototipne rešitve

☐ Nalog za „cross docking“ – pretovor v pretočnem skladišču



The screenshot shows the 'Operations [2/3]' window in the b2mos system. The main section is titled 'Warehouse operation' and contains the following details:

- Operation Identification:** Oper. **Cross Docking** (highlighted with a red box), No. NRS1L50000706, Status: Incharge, RatingResult: Rated, Prepaid/Collect: Prepaid, Manual:
- Main Instructions:** Roles, Trip, Customs, Information, Tracing
- Warehouse Section:** Performer: 53.KOP.SKL, INTEREUROPA D.D., FILIALA KOPER; To: Platform SI KOP01, Gate VRATA A01, Aisle OS. PREVZEI (highlighted with a red box)
- Planning:** Departure / Start: Estimated 12/02/2015 00:00, Actual 12/02/2015 00:00; Arrival / End: Estimated 13/02/2015 14:33, Actual:
- Quantities / Measures / Values:** H.Units: 2, HU.Type: PC-, Description: KOLETA za pomorskc, Add.Qty: , Ret.Qty: , NetWgt: , GrossWgt: 75, Ch.Wgt: 75, Vol: , L.Mtrs: , NbKms:
- Bottom Panel:** Costs, Operation Point, Revenues, Sub-Operations, Pieces, Managed Documents, Events, L.Units, Packing List
- Table:**

| H.Units: | HU ... | G.Wgt: | N.Wgt: | Volu... | LoadMt... | Descr: | Sender | Sender Country | Sender |
|----------|--------|--------|--------|---------|-----------|------------|-------------|----------------|--------|
| 2 | PC-LK | 75 | | | | POŠILJKA 1 | ECU-LINE NV | BE | 2030 |

3. Prototipne rešitve



☐ Nalog za predajo posamezne LCL pošiljke + uvozno carinjenje (sprožijo se sporočila do skladišča in carine)

Navigation: Packages Operations Revenues Pieces Costing Traces Logs Discrepancies Invoices Activity Instance

| ▲ //Nr | WB-No | Master-WB | Type | LU No | Means | Service | Status | FreightStatus | ETD | ETA | Dep.PTF | Arr.PTF |
|--------|---------------|-----------|------------------|-------|-------|---------|----------|---------------|------------------|------------------|----------|----------|
| 1 | NRS1150000706 | | SeaLCL | | | | Realised | Completed | 12/02/2015 00:00 | 12/02/2015 00:00 | BE ANR | SI KOP01 |
| 2 | NRS1150000706 | | Cross Docking | | | | Incharge | | 12/02/2015 00:00 | 13/02/2015 14:33 | SI KOP01 | SI KOP01 |
| 3 | NRS1150000706 | | TerminalDelivery | | | | Planned | | 13/02/2015 14:33 | 13/02/2015 14:33 | SI KOP01 | |

*Display Manifest *Display Operation

Operation Identification

Oper. TerminalDelivery No NRS1150000706 Ext.Ref.No
 Master Status Planned Supplier Ext. Ref. No
 FreightStatus RatingResult Rated Prepaid/Collect Prepaid Manual

Main Instructions Roles Trip Customs Information Tracing

Trucker
 Trucker

Departure Point

Platform SI KOP01 Internal
 Name KOPER
 Address VOJKOVO NABREŽJE 32
 Country SI 6000
 City KOPER
 House
 Contact
 Phone
 Gate/Aisle VRATA A OS. PREVZEI
 SupplierArea
 Appointment
 Estimated Pick-Up Time Start/End
 App Req. App. Set

Delivery Address

Unload.
 Name KOPER
 Address VOJKOVO NABREŽJE 32
 House
 Country SI 6000
 City KOPER
 Contact
 Phone Mobile
 Email
 Appointment
 Estimated Delivery Time Start/End
 App Req. App. Set

Planning

| Departure / Start | | Arrival / End | |
|-------------------|--------|------------------|--------|
| Estimated | Actual | Estimated | Actual |
| 13/02/2015 14:33 | | 13/02/2015 14:33 | |

Quantities / Measures / Values

| H.Units | HU.Type | Description | Add.Qty | Ret.Qty | NetWgt | GrossWgt | Ch.Wgt | Vol | L.Mtrs | NbKms |
|---------|---------|-------------------|---------|---------|--------|----------|--------|-----|--------|-------|
| 2 | PC- | KOLETA za pomorsk | | | | 75 | 75 | | | |

Debit/Revenue Revenues Event traces Managed Documents Involved Pieces in Operation Operation Packing List Activity Instance

| H.Units | HU ... | G.Wgt | N.Wgt | Volu... | LoadMt... | Descr | Sender | Sender Country | Sender Zip | Sender City | Consignee |
|---------|--------|-------|-------|---------|-----------|------------|-------------|----------------|------------|-------------|--------------|
| 2 | PC-LK | 75 | | | | POŠILJKA 1 | ECU-LINE NV | BE | 2030 | ANTWERPEN | GRADBENA MEH |

3. Prototipne rešitve

- Statusna sporočila o pošiljki se pošiljajo v Porticov prototipni sistem ali sistem partnerja
- Partner ali direktno pošiljatelj/prejemnik imajo podatke o prihodu pošiljke, o uskladiščenju pošiljke in o dostavi LCL pošiljke na končno lokacijo ali o predaji pošiljke prejemniku v pretočnem skladišču

Prednosti prototipne rešitve:

- Možno izgraditi enotno platformo za celotni uvozni in izvozni LCL proces
- Vpeljava direktne komunikacije med sistemi v partnerski povezavi
- Prototip omogoča zmanjševanje števila vnosov podatkov v sistem
- Krajši odzivni časi, prihranki v dokumentaciji, optimizacija dela, zaposleni



Hvala za pozornost!

www.b2mos.eu



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