

XML.COPINO Barge/Rail V 4.0.E



e.Truck

e.Rail

e.Vessel

e.Barge



e.Customs

e.Orders



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V3.0	03/03/2011	Filip Rombaut	Technical revision
V4.0	12/10/2011	Paul Wauters	New elements : Voyage, Bestemming, PinCode

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1 General agreements

1.1 XML declaration and “encoding”

Explicit declaration of the XML version + encoding at the top of the root element of each XML : `<?xml version="1.0" encoding="UTF-8"?>`. As the XSD schema is also XML the same root element can be added there. XML version 1.0 UTF-8 guarantees the best interoperability.

When a special encoding were to be used to compose an XML message, and the same encoding could not be derived from the contents of the XML message, this could result in an invalid XML.

1.2 Message types and “namespaces”

To exclude ambiguity, “namespace”s are declared wherein the XML elements must be unique. When a “namespace” is provided in the “root” element of the XML “instance”, the message type can be derived from that namespace.

The XSD (scheme):

```
<xs:schema id="Scheme Name"
targetNamespace="http://psahnn"
elementFormDefault="qualified"
xmlns="http://psahnn" xmlns:mstns="http://psahnn"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
<xs: ... elements ... >
</xs:schema>
```

The XML (instance):

```
<Root xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://psahnn">
... elements ...
</Root>
```

1.3 Multiple information within the same message

The XSD scheme allows delivery of a “collection” containing multiple information:

```
<Items>
<Item>
... Elements and attributes related to this item
</Item>
</Items>
```

Within the XSD ‘Item’ is defined as a complex type. This allows applications to refer to this “Item” (if the application can interpret XSD).

```
<xs:complexType name="Item">
<xs:sequence>
<xs:element ... various elements ... />
</xs:sequence>
</xs:complexType>
```

1.4 Mandatory vs. Optional elements

Without explicit mention within the XSD, all elements are supposed to be present in the `<xs:sequence>`. Following rules apply:

- `maxOccurs="unbounded"` if more than one value is possible
- `maxOccurs="1" minOccurs="1"` indicates that the element is mandatory. One value must be provided.
- `<Element></Element>` or `<Element />` indicates an empty element. In this way the receiver has absolute certainty that “no value” was delivered for this element. An (optional) element that is missing in the message could be interpreted by the receiver as an element that was not changed.
- Empty values are not allowed for some basic types : date, boolean or integer. In such a case the option `nillable="true"` is used in the schema. A “nillable” element is valid without content, even if the type (e.g. date) requires a value. The element in the XML instance must be extended with the attribute `xsi:nil` with value “true”. The XML element will look like this: `<Element xsi:nil="true"></Element>`. In this case, do not forget to include the namespace alias `xmlns:xsi=http://www.w3.org/2001/XMLSchema-instance` in the root element of the message.
- To simplify messages, optional elements can be indicated with : `minOccurs="0"`.

1.5 PSA Envelope

The definition of the envelope is the PSA standard and applies to all XML messages.
The PSA envelope contains 1 message.

XSD Schema

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema id="Envelope" targetNamespace="http://www.psahnn.be/schema/08A"
elementFormDefault="qualified" xmlns="http://www.psahnn.be/schema/08A"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="Envelope">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="Header">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="Sender" type="xs:string" />
              <xs:element name="Receiver" type="xs:string" />
              <xs:element name="MessageNo" type="xs:long" />
              <xs:element name="DateTimeStamp" type="xs:dateTime" />
              <xs:element name="MessageType" type="xs:string" />
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="Body" type="xs:anyType" minOccurs="1" maxOccurs="1" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

The structure of the content of the “Body” element is described in a separate XSD.

1.6 XML Header example

XML example including the header
<pre> <Envelope xmlns="http://www.psahnn.be/schema/08A" xmlns:xs="http://www.w3.org/2001/XMLSchema- instance"> <Header> <Sender>SenderID</Sender> <Receiver>ReceiverID</Receiver> <MessageNo>1</MessageNo> <DateTimeStamp>2008-09-08T13:22:41</DateTimeStamp> <MessageType>eBalie</MessageType> </Header> <Body> <eBalie> <TransactionCode>C</TransactionCode> <Container> <ContainerId>A00001</ContainerId> <BookingsReference>ABCD</BookingsReference> <Kaai>K869</Kaai> <Documents> <Document> <MRN>MRN1</MRN> <MRNType>EX</MRNType> <Kantoor>A</Kantoor> </Document> <Document> <MRN>MRN2</MRN> <MRNType>T</MRNType> <Kantoor>A</Kantoor> </Document> </Documents> </Container> </eBalie> </Body> </Envelope> </pre>

The namespace of the message and the envelope must be identical (<http://www.psahnn.be/schema>).

For <Receiver> the value **PSABEANR001** must be filled in.

For <Sender> we recommend the following:

In case you are currently sending EDI messages to PSA, please use your current sender ID.

If you don't have a sender ID, please contact us (Paul Wauters 03/260.70.56 or Filip Rombaut 03/260.71.52) before testing starts. We will provide you with a sender ID.

2 Copino-xml message

2.1 XSD-Schemas

The information in this manual adheres to the following xsd schemas

For the Header: **PSA_Envelope_v1.0.xsd**

For the Body: **Copino_XML_v4.0.xsd**

Here shown is an overview of the elements and group sequences for the COPINO XML message when correctly applying the xsd schemas. How to fill the different elements with the correct data and under the correct circumstances will be described further on in the document.

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<Envelope xmlns="http://www.psahnn.be/schema/08A" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <Header>
    <Sender/>
    <Receiver/>
    <MessageNo/>
    <DateTimeStamp/>
    <MessageType/>
  </Header>
  <Body>
    <Pre_announcements>
      <TransactionCode/>
      <Pre_announcement>
        <Transport_Visit>
          <Type/>
          <Means/>
          <Operator/>
          <Voyage_ID/>
          <Transportname/>
          <Europe_nr/>
          <Terminal/>
          <VisitNumber/>
        </Transport_Visit>
        <Preann_details>
          <Container_Operator/>
          <Booking_reference/>
          <Wagon_nr/>
          <ContainerID/>
          <Loadstatus/>
          <Imp_Exp/>
          <Iso_code/>
          <Len_typ_hei>
            <container_length Unit="ft"/>
            <container_type/>
            <container_height/>
          </Len_typ_hei>
          <Weight Unit="kg"/>
          <Out_of_gauge>
            <Over_height Unit="cm"/>
            <Over_right Unit="cm"/>
            <Over_Left Unit="cm"/>
            <Over_front Unit="cm"/>
          </Out_of_gauge>
        </Preann_details>
      </Pre_announcement>
    </Pre_announcements>
  </Body>
</Envelope>
```

```

        <Over_back Unit="cm"/>
    </Out_of_gauge>
    <Carrier>
        <Main_voyage/>
        <Vessel_Operator/>
        <Carrier_radiocallsign/>
        <Carrier_vesselname/>
    </Carrier>
    <Reefer_temp>
        <Temp/>
        <Temp_unit/>
    </Reefer_temp>
    <Herkomst/>
    <Bestemming/>
    <PinCode/>
    <DG>
        <Class/>
        <UNDG/>
    </DG>
    ...
    <Customs>
        <Customs_Document>
            <Document_type/>
            <DocumentNumber/>
            <BorderOffice/>
            <DocumentDate/>
            <Remark/>
        </Customs_Document>
        ...
    </Customs>
    </Preann_details>
    <Preann_details>
        ...
    </Preann_details>
    ...
    </Pre_announcement>
</Pre_announcements>
</Body>
</Envelope>

```



2.2 Content description of the Body-part

2.2.1 Transaction Code - <TransactionCode>

Description: Transaction code of the message. Only “create” and “delete” will be allowed.

Property: Mandatory.
Load lists can be sent incrementally.

Allowed values:

Code
CREATE
DELETE

2.2.2 GROUP Transport_Visit

Description: Inland transport vessel/voyage data.

Property: Mandatory.

2.2.3 Transport_Visit: Type - <Type>

Description: Indicates whether the pre-notification relates to loading or discharging

Property: Mandatory.

Allowed values:

Code
Discharge
Loading

2.2.4 Transport_Visit: Mode of transport - <Means>

Description: Indicates whether the pre-notification relates to barge or rail moves.

Property: Mandatory.

Allowed values:

Code	Description
BG	Barge
RL	Rail



2.2.5 Transport_Visit: Operator - <Operator>

Description: Identification code of the barge or rail operator

Property: Mandatory.

Allowed values:

In this segment the fixed PSA codes need to be used. A complete list of the codes can be sent to you upon email request to esupport@psa-antwerp.be. It is possible to receive monthly updates of the PSA HNN codes by email.

Code	Description
IFB	Interferryboats (rail)
NAVIL	Naviland (rail)
WCT	Meerhout Container Terminal (barge)

Format : Max. length : 30 characters.

2.2.6 Transport_Visit: <Voyage_ID>

Description: Voyage Id of rail or barge.

Property: Mandatory.

If...	Then...
Barge	Voyage ID = BTS-Id (**)
Rail	Date of arrival of train, e.g. 20111130. OR A mutually agreed structure for the voyage id (*).

Format: Max. length : 10 characters.

(*) NOTE: You can only send the voyage number instead of the default value when the voyage number concerned was emailed to one of the following addresses 24h prior to arrival.

Pleinbeheer.869@psa-antwerp.be
 Pleinbeheer.913@psa-antwerp.be
 Pleinbeheer.1742@psa-antwerp.be

(**) For Z206 it is agreed that the barge company needs to contact the terminal (by phone) to obtain the voyage id needed for the message.



2.2.7 Transport_Visit: Transport name - <Transportname>

Description: Code of the train or barge (see also Europe number).

Property:

If...	Then...	Property
Barge	The barge code as known at PSA (**).	Optional
Rail	Train path number (*). If the Train path number is not known, use the default value "RAIL".	Mandatory

Format : Max. length : 34 characters.

(*) NOTE: The train path number should only be used instead of the default value when the train path number concerned was emailed to one of the following addresses 24h prior to arrival:

Pleinbeheer.869@psa-antwerp.be
 Pleinbeheer.913@psa-antwerp.be
 Pleinbeheer.1742@psa-antwerp.be

(**) Only the PSA codes should be used for this segment. They can be obtained by emailing to e_Support@psa-antwerp.be.

2.2.8 Transport_Visit: Europe number - <Europe_nr>

Description: Code of the barge via its Europe number (last 7 digits).

Property:

If...	Property
barge	Optional
rail	Not applicable

Though the Europe number is optional for barges, it is strongly recommended to send it if it is known.

Format : Max. length : 8 characters.



2.2.9 Transport_Visit: Terminal - <Terminal>

Description:

Identification of the PSA terminal where the containers will be delivered/picked up. The PSA code or the BTB Terminal Code (Bureau Telematica Binnenvaart) can be used. Visit http://www.binnenvaart.org/?page_id=1443 to learn more.

Property: Mandatory.

Allowed values: when using the PSA codes:

Code	Description
BEANRS869	Schelde Terminal
BEANRS913	Noordzee Terminal
BEANR1742	Deurganck Terminal
BEANR420	Churchill terminal
BEZEEA206	Zeebrugge Container Handling
BEZEE129	Zeebrugge International Port

2.2.10 Transport_Visit: <VisitNumber>

new!

Description: Unique identification of the visit as provided by the port authority of the barge.

Property: Optional.

If...	Then...
barge	BTS-Id.
rail	Not applicable

Format: Max. length : 10 characters.

2.2.11 GROUP Pre Announcement Details - <Preann_details>

Description: Container pre-announcement specifications.

Because this is the main group, its name is not mentioned in front of the elements contained therein.

Property: Mandatory.
Repeating.



2.2.12 Line code - <Container_Operator>

Description: Line service.

Property:

If...		Property
Barge	Discharge	Mandatory
	Loading	Optional
Rail	Discharge	Optional
	Loading	Optional

Allowed values:

Only fixed PSA codes are allowed for this segment.
They can be obtained by emailing to [e Support@psa-antwerp.be](mailto:Support@psa-antwerp.be).

2.2.13 Booking Reference - <Booking_reference>

Description: Booking reference.

Property:

If...			Property
Discharge	Empty	-	Optional
	Full	Export	Mandatory
		Import Foreign Port (*)	Not applicable
Loading	Empty		Mandatory if no Container Id
	Full		Not applicable

(*) Containers discharged from vessel on a terminal other than those of PSA Antwerp & PSA Zeebrugge

Format: Max. length : 25 characters.

2.2.14 Wagon number - <Wagon_nr>

Description: Number of the wagon.

Property:

If...	Property
barge	Not applicable
rail	Optional

Format: Max. length : 17 characters.



2.2.15 Container Identification - <ContainerID>

Description: Container number, given without spaces or other characters
e.g. XXXU1234567 (////1234567 for shipper's owned containers)

Property:

If...		Property
Discharge	Empty	Mandatory
	Full	Mandatory
Loading	Empty	Optional (*)
	Full	Mandatory

(*) NOTE : If no container ID is provided, the Booking_reference is mandatory !!

2.2.16 Load Status - <Loadstatus>

Description: Load status of the container.

Property: Mandatory.

Allowed values:

Code	Description
F	Full
E	Empty

2.2.17 Import/Export - <Imp_Exp>

Description: Indicates whether it concerns an import or export container.

Property: Mandatory.

Allowed values:

Code	Description
E	Export
I	Import



2.2.18 Iso - <Iso_code>

Description: Iso code of the container.

Property:

If...		Property
Discharge	Empty	Mandatory
	Full	Mandatory
Loading	Empty	Mandatory
	Full	Optional

If Property is 'Mandatory' and no Iso code is given, the group length/type/height should be provided.

2.2.19 GROUP Length / Type / Height - <Len_typ_hei>

Description: Length / Type / Height of the container.

Property:

If...		Property
Discharge	Empty	Mandatory
	Full	Mandatory
Loading	Empty	Mandatory
	Full	Optional

If Property is 'Mandatory' and the group length/type/height is not given, Iso code should be provided.



2.2.20 Len_typ_hei: Length: <container_length Unit:"ft">

Description: Container length in feet.

Property: Mandatory.

Allowed values:

Allowed value	Description
5	5 foot
6	6 foot
8	8 foot
10	10 foot
20	20 foot
22	22 foot
23	23 foot
24	24 foot
25	25 foot
26	26 foot
30	30 foot
33	33 foot
35	35 foot
40	40 foot
42	42 foot
43	43 foot
44	44 foot
45	45 foot
48	48 foot
50	50 foot
53	53 foot
60	60 foot

2.2.21 Len_typ_hei: Type: <container_type>

Description: Container type.

Property: Optional.

Allowed values:

Allowed value	Description
AC	Auto Container / Auto Carrier
BO	Bolster
BU	Bulk
CC	Car Carrier
CF	Collapsable flat
CR	Conair



CT	Container-tank
DV	Dry Van
FB	Flat-bed
FL	Flat
HE	Heated
HT	Hard Top
IS	Isotherm
KB	Kribbe
MA	Mafi
OS	Open side
OT	Open Top
PP	Powerpack
RE	Reefer
RH	Reefer heatable
SB	Swap body
SD	Side Doors
SF	Stack-flat
SI	Six in One
SR	Superrack
TI	Tilt
VE	Ventilated

2.2.22 Len_typ_hei: Height: <container_height>

Description: Container Height.

Property: Optional.

Allowed values:

Allowed values	Description
100	1 foot
110	1,1 foot
120	1,20 foot
200	2 foot
300	3 foot
400	4 foot
430	4,3 foot
580	5,8 foot
620	6,2 foot
700	7 foot
800	8 foot
860	8,6 foot
890	8,9 foot
900	9 foot
910	9,1 foot
960	9,6 foot



2.2.23 Weight - <Weight Unit="kg">

Description: GROSS weight of the container (together with its content) given in kg.

Property:

If...		Property
Discharge	Export	Optional (weight from the booking is taken)
	Import	Optional
Loading	Export	Mandatory
	Import	Mandatory

2.2.24 GROUP Out of gauge - <Out_of_gauge>

Description: Custom sizes.

Property: Optional

2.2.25 Out_of_gauge: <Over_height Unit="cm">

Description: Deviation of the standard size of the container in height (in cm).

Property: Optional.

2.2.26 Out_of_gauge: <Over_right Unit="cm">

Description: Deviation of the standard size of the container on the right side (in cm).

Property: Optional.

2.2.27 Out_of_gauge: <Over_Left Unit="cm">

Description: Deviation of the standard size of the container on the left side (in cm).

Property: Optional.



2.2.28 Out_of_gauge: <Over_front Unit="cm">

Description: Deviation of the standard size of the container at the front (in cm).

Property: Optional.

2.2.29 Out_of_gauge: <Over_back Unit="cm">

Description: Deviation of the standard size of the container at the back (in cm).

Property: Optional.

2.2.30 GROUP Carrier - <Carrier>

Description:

1. Call sign of the vessel from which the containers were discharged (import).
or
2. Call sign of the vessel on which the containers have to be loaded (export).

Property:

If...		Property
Discharge	Import Foreign Port (*)	Mandatory
	Export	Not applicable
Loading	Export Foreign Port (**)	Mandatory
	Import	Do not use !!!

(*) Containers that have been discharged from vessel at a different terminal than those of PSA Antwerp & PSA Zeebrugge.

(**) Containers that will be loaded on a vessel on a different terminal than those of PSA Antwerp & PSA Zeebrugge.

2.2.31 Carrier: Vessel Main Voyage - <Main_voyage>

Description: Voyage number of the vessel on which the containers will be discharged/loaded.

Property: Optional.

Format: Max. length : 17 characters.



2.2.32 Carrier: Vessel operator - <Vessel_Operator>

Description: Carrier of the vessel on which the containers will be discharged/loaded.

Property: Optional.

Format: Max. length : 17 characters.

2.2.33 Carrier: Call sign - <Carrier_radiocallsign>

Description: Call sign of the vessel of/on which the containers will be discharged/loaded.

Property: Mandatory.

Format: Max. length : 9 characters.

2.2.34 Carrier: Vessel Name - <Carrier_vesselname>

Description: Name of the vessel of/on which the containers will be discharged/loaded.

Property: Optional.

Format: Max. length : 35 characters.



2.2.35 GROUP Reefer Temperature - <Reefer_temp>

Description: Temperature data.

Property:

If...		Property
Discharge	Import Foreign Port (*)	Mandatory
	Export	Optional
Loading	Export Foreign Port (**)	Optional
	Import	Optional

(*) Containers that have been discharged from vessel at a different terminal than those of PSA Antwerp & PSA Zeebrugge.

(**) Containers that will be loaded on a vessel on a different terminal than those of PSA Antwerp & PSA Zeebrugge.

2.2.36 Reefer_temp: Temperature - <Temp>

Description: Temperature at which the reefer has to be set

Property: Mandatory.

2.2.37 Reefer_temp: Unit - <Temp_unit>

Description: Temperature unit.

Property: Mandatory.

Allowed values :

Code
Celcius
Fahrenheit



2.2.38 Origin - <Herkomst>

Description: Place of origin of the container.

Property:

If...		Property
Discharge	Import Foreign Port (*)	Mandatory
	Export	Mandatory
Loading	Export Foreign Port (**)	Not applicable
	Import	Not applicable

(*) Containers that have been discharged from vessel at a different terminal than those of PSA Antwerp & PSA Zeebrugge.

(**) Containers that will be loaded on a vessel on a different terminal than those of PSA Antwerp & PSA Zeebrugge.

Format: UN Location Code OR BIC Code.

2.2.39 Destination - <Bestemming> *new!*

Description: Destination of the container.

Property:

If...		Property
Discharge	Import	Not applicable
	Export	Not applicable
Loading	Export Foreign Port (*)	Mandatory
	Import	Mandatory

(*) Containers that will be loaded on a vessel on a different terminal than those of PSA Antwerp & PSA Zeebrugge.

Format: UN Location Code OR BIC Code.



2.2.40 Pin Code - <PinCode> *new!*

Description: Pin code.

Property:

If...		Property
Discharge	Empty	-
	Full	Export
		Import Foreign Port (*)
Loading	Empty	
	Full	

(*) Containers that have been discharged from vessel at a different terminal than those of PSA Antwerp & PSA Zeebrugge.

(**) If the Agent uses the pin code to release the container, its use is mandatory when sending loading full instructions.

Format: Max. length : 25 characters.



2.2.41 GROUP Dangerous Goods - <DG>

Description: Dangerous goods information.

Property: Repeating.

If...		Property
Discharge	Import Foreign Port (*)	Mandatory
	Export	Optional
Loading	Export Foreign Port (**)	Optional
	Import	Optional

(*)Containers that have been discharged from vessel at a different terminal than those of PSA Antwerp & PSA Zeebrugge.

(**) Containers that will be loaded on a vessel on a different terminal than those of PSA Antwerp & PSA Zeebrugge.

2.2.42 DG: Dangerous Goods: IMDG class - <Class>

Description: IMDG-class.

Allowed values: Official IMDG codes.

2.2.43 DG: Dangerous Goods: UN number - <UNDG>

Description: UN Code.

Allowed values: Official IMDG codes.



2.2.44 GROUP Customs documents - <Customs> - <Customs_Document>

Description: Customs documents.

Property: Optional.
Repeating
Only applies to EXPORT.

2.2.45 Customs_Document: Document type - <Document_type>

Description: Type of Document.

Property: Mandatory.

Allowed values:

Code	Description
EX	Export document
T	Transit document
COA	T2LF
T2L	T2L

2.2.46 Customs_Document: Document identification - <DocumentNumber>

Description: Identification of the MRN document.

Property: Mandatory.

Allowed values: There is no validation on the correctness of the value transmitted. Only the length of the MRN number is checked : always 18 characters.

Format: Max. length : 35 characters.

2.2.47 Customs_Document: office of exit - <BorderOffice>

Description: Customs office of destination/exit.
NOTE: this is not the office of validation !!

Property: Optional.



Allowed values:

Code	Description
BE101000	Antwerpen
BE343000	Zeebrugge
...	...
XX999999	Dummy value (use only if Not applicable as in the case of MRN type COA or T2L.)

You can find a complete list of customs offices on <http://fiscus.fgov.be/interfdanl/nl/ncts/helpdesk.htm>.

2.2.48 Customs_Document: Document date - <DocumentDate>

Description: Date of the MRN document.

Property: Optional.

Format: CCYY-MM-DD

2.2.49 Customs_Document: Remark - <Remark>

Description: Remark on the MRN document.

Property: Optional.
The content is not checked.



2.3 XML Examples

2.3.1 Rail Discharge

XML example Rail Discharge

```

<?xml version="1.0" encoding="UTF-8"?>
<Envelope xmlns="http://www.psahn.be/schema/08A" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <Header>
    <Sender>BE0472910632203000</Sender>
    <Receiver>PSABEANR001</Receiver>
    <MessageNo>698</MessageNo>
    <DateTimeStamp>2011-10-13T05:16:45</DateTimeStamp>
    <MessageType>COPINO</MessageType>
  </Header>
  <Body>
    <Pre_announcements>
      <TransactionCode>CREATE</TransactionCode>
      <Pre_announcement>
        <Transport_Visit>
          <Type>Discharge</Type>
          <Means>RL</Means>
          <Operator>RAILWAY</Operator>
          <Voyage_ID>20111013</Voyage_ID>
          <Transportname>32282</Transportname>
          <Terminal>BEANR1742</Terminal>
        </Transport_Visit>
        <Preann_details>
          <Container_Operator />
          <Booking_reference>555149196</Booking_reference>
          <Wagon_nr>336845570942</Wagon_nr>
          <ContainerID>MRKU0333638</ContainerID>
          <Loadstatus>F</Loadstatus>
          <Imp_Exp>E</Imp_Exp>
          <Iso_code>45G1</Iso_code>
          <Len_typ_hei>
            <container_length Unit="ft">40</container_length>
            <container_type>DV</container_type>
            <container_height>960</container_height>
          </Len_typ_hei>
          <Weight Unit="kg">12523</Weight>
          <Herkomst>DEFRA</Herkomst>
        </Preann_details>
        <Preann_details>
          <Container_Operator />
          <Booking_reference>CSCZIMANT229</Booking_reference>
          <Wagon_nr>336845570942</Wagon_nr>
          <ContainerID>CXDU1188927</ContainerID>
          <Loadstatus>E</Loadstatus>
          <Imp_Exp>E</Imp_Exp>
          <Iso_code>22G1</Iso_code>
          <Len_typ_hei>
            <container_length Unit="ft">20</container_length>
            <container_type>DV</container_type>
            <container_height>860</container_height>
          </Len_typ_hei>
          <Weight Unit="kg">2000</Weight>
          <Herkomst>BEAAT</Herkomst>
        </Preann_details>
      </Pre_announcement>
    </Pre_announcements>
  </Body>
</Envelope>

```

2.3.2 Rail Loading

XML example Rail Loading

```
<?xml version="1.0" encoding="UTF-8"?>
<Envelope xmlns="http://www.psahn.be/schema/08A" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <Header>
    <Sender>BE0472910632203000</Sender>
    <Receiver>PSABEANR001</Receiver>
    <MessageNo>698</MessageNo>
    <DateTimeStamp>2011-10-13T05:16:45</DateTimeStamp>
    <MessageType>COPINO</MessageType>
  </Header>
  <Body>
    <Pre_announcements>
      <TransactionCode>CREATE</TransactionCode>
      <Pre_announcement>
        <Transport_Visit>
          <Type>Loading</Type>
          <Means>RL</Means>
          <Operator>RAILWAY</Operator>
          <Voyage_ID>20111013</Voyage_ID>
          <Transportname>32282</Transportname>
          <Terminal>BEANR1742</Terminal>
        </Transport_Visit>
        <Preann_details>
          <Container_Operator>MRK</Container_Operator>
          <Wagon_nr>336845570942</Wagon_nr>
          <ContainerID>MRKU0333638</ContainerID>
          <Loadstatus>F</Loadstatus>
          <Imp_Exp>I</Imp_Exp>
          <Iso_code>45G1</Iso_code>
          <Len_typ_hei>
            <container_length Unit="ft">40</container_length>
            <container_type>DV</container_type>
            <container_height>960</container_height>
          </Len_typ_hei>
          <Weight Unit="kg">12523</Weight>
          <Bestemming>FRLYO</Bestemming>
          <PinCode>P100A01</PinCode>
        </Preann_details>
        <Preann_details>
          <Container_Operator />
          <Wagon_nr>336845570942</Wagon_nr>
          <ContainerID>CXDU1188927</ContainerID>
          <Loadstatus>E</Loadstatus>
          <Imp_Exp>I</Imp_Exp>
          <Iso_code>22G1</Iso_code>
          <Len_typ_hei>
            <container_length Unit="ft">20</container_length>
            <container_type>DV</container_type>
            <container_height>860</container_height>
          </Len_typ_hei>
          <Weight Unit="kg">2000</Weight>
          <Bestemming>FRLYO</Bestemming>
          <PinCode>P100A02</PinCode>
        </Preann_details>
      </Pre_announcement>
    </Pre_announcements>
  </Body>
</Envelope>
```



2.3.3 General

XML general example with all possibilities

```

<?xml version="1.0" encoding="UTF-8"?>
<Envelope xmlns="http://www.psahn.be/schema/08A" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <Header>
    <Sender>BE0472910632203000</Sender>
    <Receiver>PSABEANR001</Receiver>
    <MessageNo>698</MessageNo>
    <DateTimeStamp>2011-10-13T05:16:45</DateTimeStamp>
    <MessageType>COPINO</MessageType>
  </Header>
  <Body>
    <Pre_announcements>
      <TransactionCode>CREATE, DELETE</TransactionCode>
      <Pre_announcement>
        <Transport_Visit>
          <Type>Loading, Discharge</Type>
          <Means>RAIL,BARGE</Means>
          <Operator>RAILCY</Operator>
          <Voyage_ID>20111013</Voyage_ID>
          <Transportname>32282</Transportname>
          <Europe_nr />
          <Terminal>TerminalCode</Terminal>
          <VisitNumber />
        </Transport_Visit>
        <Preann_details>
          <Container_Operator>LIN</Container_Operator>
          <Booking_reference>555149196</Booking_reference>
          <Wagon_nr>336845570942</Wagon_nr>
          <ContainerID>LINU0333638</ContainerID>
          <Loadstatus>F</Loadstatus>
          <Imp_Exp>I</Imp_Exp>
          <Iso_code>45G1</Iso_code>
          <Len_typ_hei>
            <container_length Unit="ft">40</container_length>
            <container_type>DV</container_type>
            <container_height>960</container_height>
          </Len_typ_hei>
          <Weight Unit="kg">12345</Weight>
          <Out_of_gauge>
            <Over_height Unit="cm" />
            <Over_right Unit="cm" />
            <Over_Left Unit="cm" />
            <Over_front Unit="cm" />
            <Over_back Unit="cm" />
          </Out_of_gauge>
          <Carrier>
            <Main_voyage />
            <Vessel_Operator />
            <Carrier_radiocallsign />
            <Carrier_vesselname />
          </Carrier>
          <Reefer_temp>
            <Temp>-11.2</Temp>
            <Temp_unit>Celcius, Fahrenheit</Temp_unit>
          </Reefer_temp>
          <Herkomst>FRLEH</Herkomst>
          <Bestemming>FRLYO</Bestemming>
          <PinCode>P100A01</PinCode>
          <DG>
            <Class />
            <UNDG />
          </DG>
          <Customs>
            <Customs_Document>

```

XML general example with all possibilities

```
<Document_type />
<DocumentNumber />
<BorderOffice />
<DocumentDate />
<Remark />
  </Customs_Document>
</Customs>
  </Preann_details>
</Pre_announcement>
</Pre_announcements>
</Body>
/Envelope>
```



3 Functional Flow

3.1 Allowed TransactionCodes

```
<xs:simpleType name="TransactionCode">  
  <xs:restriction base="xs:string">  
    <xs:enumeration value="CREATE" />  
    <xs:enumeration value="DELETE" />  
  </xs:restriction>  
</xs:simpleType>
```

Only 2 transaction codes are allowed:

- **CREATE**
- **DELETE**

4 Communication protocol

4.1 AS/2

If you want to use the AS2 (secure HTTP) protocol, please contact our IT department:

Paul Wauters 03/260.70.56 (Team mngr. EDI)

Or

Filip Rombaut 03/260.71.52 (EDI Team)

4.2 SSH

SSH is used for secure file transfer over an 'insecure' channel (Internet) and is a replacement for the insecure "FTP". The communication partner uses an SSH client tool to connect to PSA's SSH server.

If you want to use this protocol, please contact our IT department:

Paul Wauters 03/260.70.56 (Team mngr. EDI)

Or

Filip Rombaut 03/260.71.52 (EDI Team)

4.3 E-mail

Production: the mail address can be obtained at e_support@psa-antwerp.be.

Test: the mail address can be obtained at e_support@psa-antwerp.be.

If you wish to use e-mail, please send the XML as an attachment. Please send only one attachment per email.

4.4 Other

If you wish to use a different protocol than the ones described above, we will investigate the feasibility per individual case.

Please contact our IT department:

Paul Wauters 03/260.70.56 (Team mngr. EDI)

Or

Filip Rombaut 03/260.71.52 (EDI Team)