



AskTIR^{web} Integration WebServices

AskTIR^{web} Team — September 24, 2020

Contents

1	Introduction	5
1.1	TIR Accounting	5
1.2	TIR Haulier	5
1.3	TIR Haulier administrative data	6
1.4	Technical notes	6
1.4.1	Asynchronicity	6
1.4.2	Configuration	6
2	TIR Accounting Processes	7
2.1	Sending Haulier details	7
2.2	Acknowledgement of an IRU TIR Invoice	9
2.2.1	Sending the Invoice	9
2.2.2	Sending the TIR Carnet Receipt Advice	11
2.3	Transfer between branches	13
2.4	Assignment to a mini-store	15
2.5	Issuance of TIR Carnets	17
2.5.1	Verification of Haulier accounts	17
2.5.2	Payment	19
2.5.3	Printing additional documents	24
2.6	Annulment of issuance of TIR Carnets	25
2.7	Return of TIR Carnets	25
2.7.1	Return of TIR Carnets	25
2.7.2	Printing additional documents	27
2.7.3	Notification of changes after return of TIR Carnets	28
2.8	Deposit orders	29
2.8.1	Create a deposit order	29
2.8.2	Search a list of deposit orders	31
3	TIR Haulier exposed data	34
3.1	Haulier details	34
3.2	Creating a Haulier	34
3.3	Updating an existing Haulier	34

- 3.4 Creating a Vehicle 35
- 3.5 Updating an existing Vehicle 35
- 3.6 Deleting a vehicle 36
- 3.7 Vehicle details 36
- 3.8 Search vehicles 36
- 3.9 Search Haulier TIR Carnets 37
- 3.10 Get Haulier contacts 38
- 3.11 Other data 39
- 4 TIR Haulier portal administrative data 39**
- 4.1 Modified contacts details 39
- 5 Security 40**
- 5.1 Network 40
 - 5.1.1 Connectivity 40
 - 5.1.2 HTTPS 40
- 5.2 WS-Security 40
- 5.3 Client role 40
 - 5.3.1 Application authentication 40
 - 5.3.2 User forwarding 41
- 5.4 Server role 41
- 6 Webservice Definitions 41**
- 6.1 TIR Accounting 41
- 6.2 TIR Haulier 49
- 6.3 TIR Haulier portal admin services 56
- 7 Schemas 59**
- 7.1 AskTIR^{web} specific schemas 59
 - 7.1.1 Common 59
 - 7.1.2 Carnet 62
 - 7.1.3 Carnet Order 63
 - 7.1.4 Haulier 64
 - 7.1.5 Contact 66

7.1.6	Accounting	67
7.1.7	Invoice	67
7.1.8	Deposit Order	68
7.1.9	Accounting Item	69
7.1.10	Carnet Movement	70
7.1.11	Vehicle	71
7.2	IRU schemas	72
7.2.1	TIR Actor	72
7.2.2	IRU Guarantee	72
7.2.3	TIR Carnet	76
7.2.4	RTS Carnet	76
7.2.5	RTS Termination	77
7.2.6	ISO 3166 1 - Country	79
7.2.7	ISO 4217 - Currency	81
7.2.8	ISO 639 1 - Language	81
7.2.9	IETF RFC 2278 - Charset	82
7.2.10	IETF RFC 4288 - Media Type	82

1 Introduction

AskTIR^{web} plays a key role in the Association information system, but it is not the only piece of software in use. Therefore external interfaces have been defined to interact with:

- a TIR Accounting system
- a TIR Haulier
- TIR Haulier administrative data

1.1 TIR Accounting

Accountancy and invoicing are both subject to the national legislation and no standard invoicing module can be used by all Associations. AskTIR^{web} can closely interact with an external accounting application by feeding the latter application with the necessary data concerning:

- the Haulier details (see 2.1 on page 7)
- the TIR Carnet delivery including the invoice number, the date and the included Carnets' ranges (see 2.2 on page 9)
- the Carnets' transfer between Association branch offices (if any) (see 2.3 on page 13)
- the Carnets' transfer between the Central stock and mini-store (see 2.4 on page 15)
- the selected Haulier and the types and ranges of TIR Carnets being issued (see 2.5 on page 17)
- the annulment of the issuance of TIR Carnets (see 2.6 on page 25)
- the selected Haulier and the types and ranges of TIR Carnets being returned (see 2.7 on page 25)
- the creation of request for the deposit by the selected Haulier (see 2.8 on page 29)

1.2 TIR Haulier

It is possible for the Associations which want to create a specific application for their Hauliers to request data from AskTIR^{web}. Currently it is possible to:

- get the Haulier details (see 3.1 on page 34)
- create Haulier (see 3.2 on page 34)

- update an existing Haulier (see 3.3 on page 34)
- create a vehicle (see 3.4 on page 35)
- update an existing vehicle (see 3.5 on page 35)
- delete a vehicle (see 3.6 on page 36)
- search vehicles (see 3.8 on page 36)
- search Haulier TIR Carnets (see 3.9 on page 37)
- get Haulier contacts (see 3.10 on page 38)
- other data

1.3 TIR Haulier administrative data

It is possible for the Associations which want to get additional administrative data for their internal applications or portals to request data from AskTIR^{web}. Currently it is possible to get:

- the list of modified contacts during the period (see 4.1 on page 39)

1.4 Technical notes

1.4.1 Asynchronicity

In order to not disturb the normal functioning of the application, the default mode of operation to send data is asynchronous. Indeed, the data will be first checked and saved by the application, and only then replicated to the external system.

If the latter is failing to respond, the data sending is deferred and new attempts are made regularly. For such asynchronous data sending, it is guaranteed that the external system will receive the data:

- in the same order as what have been saved
- one piece of data at a time (no concurrency is possible)

There are a 4 exceptions (synchronous calls), mostly for the issuance of TIR Carnets as described in 2.5 on page 17, and which will be marked as such when encountered.

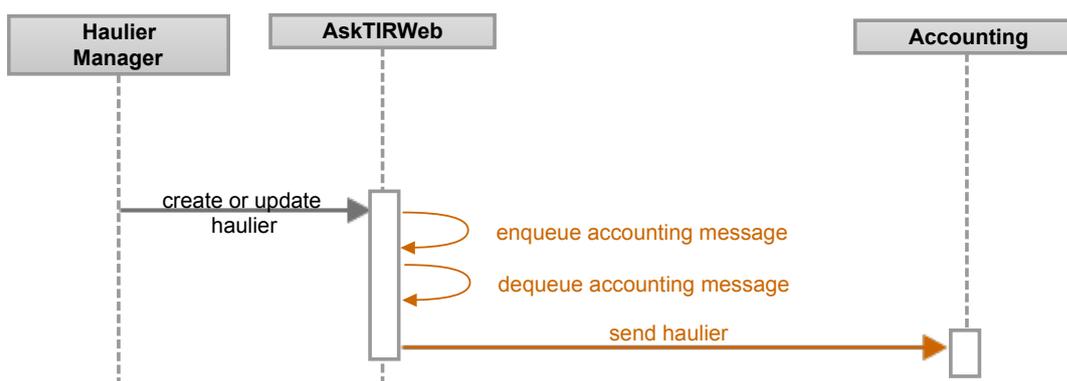
1.4.2 Configuration

It is possible to configure AskTIR^{web} to not send unexpected or irrelevant data to the Association accounting system (for example: if there is no tracking of the location of Carnets).

2 TIR Accounting Processes

The methods described here are defined in 6.1 on page 41.

2.1 Sending Haulier details



Upon creation or update of a Haulier, AskTIR^{web} can send the details about the Haulier (of `TIRHaulierType` type in `http://www.asktirweb.org/model/haulier-1` namespace) to the Association accounting system, as defined in 7.1.4 on page 64:

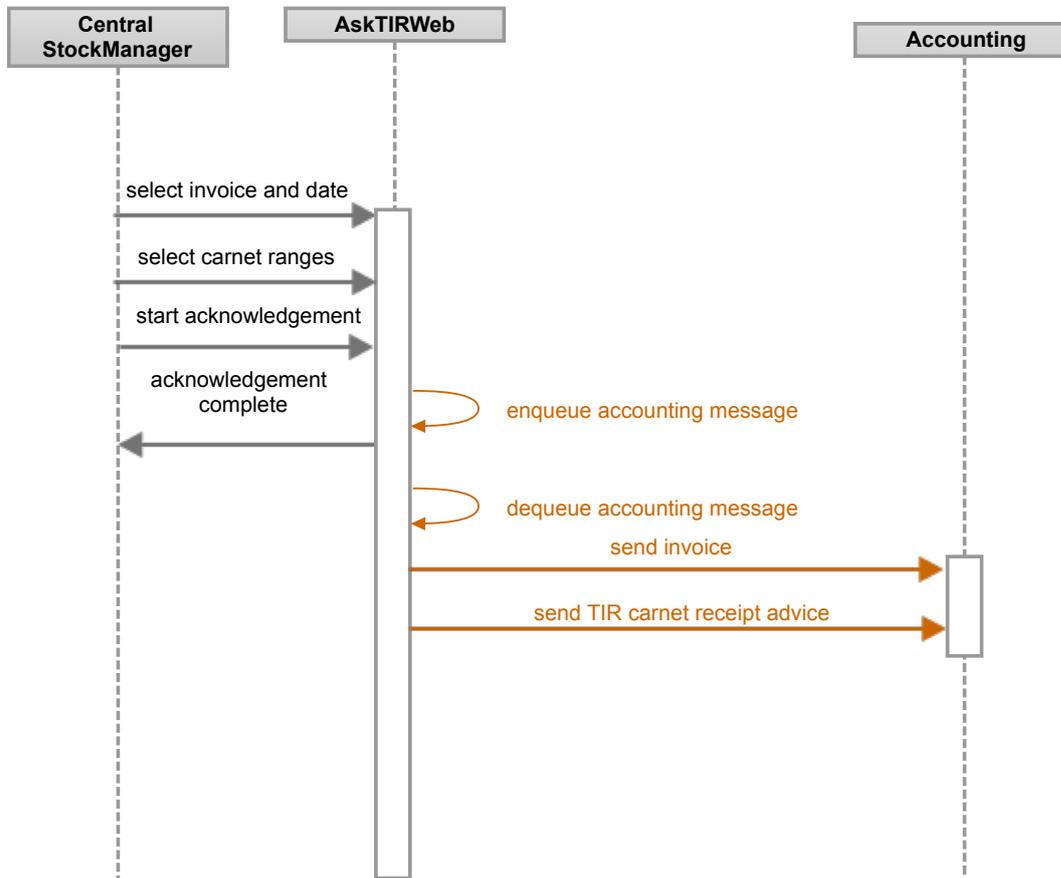
- **Id:** the unique identifier of the Haulier, in accordance with UNECE recommendation (<http://www.unece.org/tir/news/7march.html>).
- **OrganisationName:** the legally registered name for the company.
- **AdditionalCodes:** other codes that have been assigned to the company. For example, the national tax number or an EORI.
- **OtherOrganisationName:** an optional, unbounded list of other names.
- **CompanyTypeCode:** the type of company, as a code (optional).
- **NationalityType:** the type of nationality (optional).
- **OwnershipTypeCode:** the type of ownership, as a code (optional).
- **MembershipTypeCode:** the type of membership, as a code (optional).
- **OfficialDocumentReferences:** an optional, unbounded list of references to official documents. For example, the International Licence.
- **AssociationTIRStatus:** the status with respect to the Association (optional).
- **CustomsTIRStatus:** the status with respect to the Customs Authorities (optional).
- **Quota:** the quota (optional).

- LegalLocation: the details of the legally registered address, with the associated communications means (email, telephone, fax).
- OtherLocations: an optional, unbounded list of other addresses' details, with their associated communications means (email, telephone, fax).

The method that will be called is named `sendHaulier`.

```
<sendHaulier xmlns="http://www.asktirweb.org/services/TIRAccountingService-1" xmlns:ns2="http://www.asktirweb.org/model/common-1" xmlns:ns3="http://www.asktirweb.org/model/invoice-1" xmlns:ns4="http://www.iru.org/model/tir-actor-1" xmlns:ns5="http://www.asktirweb.org/model/tir-carnet-1" xmlns:ns6="http://www.asktirweb.org/model/carnet-order-1" xmlns:ns7="http://www.asktirweb.org/model/carnet-movement-1" xmlns:ns8="http://www.asktirweb.org/model/haulier-1" xmlns:ns10="http://www.asktirweb.org/model/accounting-1">
  <haulier>
    <ns8:Id>XAK/150/27914</ns8:Id>
    <ns8:OrganisationName>Haulier created for test purpose 27914</ns8:OrganisationName>
    <ns8:LegalLocation>
      <ns2:Address>
        <ns2:AddressLines>
          <ns2:AddressLine>Testing road 20</ns2:AddressLine>
          <ns2:AddressLine>Building 23</ns2:AddressLine>
        </ns2:AddressLines>
        <ns2:Locality>Tester city</ns2:Locality>
        <ns2:PostalCode>12345</ns2:PostalCode>
        <ns2:CountryCode>XAK</ns2:CountryCode>
      </ns2:Address>
    </ns8:LegalLocation>
  </haulier>
</sendHaulier>
```

2.2 Acknowledgement of an IRU TIR Invoice



When acknowledging the reception of TIR Carnets from the IRU, the application can send the information regarding the Invoice and/or the Receipt Advice:

- the Invoice contains the same information as the PDF (and the paper copy accompanying the physical Carnets during the transport), and comprises (but is not limited to) the list of shipped ranges.
- the Receipt Advice contains only the ranges which have really been received and acknowledged in the application (it is possible to only partially acknowledge an Invoice, for instance in the case when there are multiple shipments).

If there are multiple acknowledgements for the same invoice, the full Invoice details will be sent once per acknowledgement. It is the responsibility of the accounting system to act according to its own rules (discard, re-validate, etc.).

2.2.1 Sending the Invoice

The Invoice (of `InvoiceType` type in `http://www.asktirweb.org/model/invoice-1` namespace, as defined in 7.1.7 on page 67) details contain:

- **Id:** the unique number for the TIR Invoice.
- **IssueDate:** the date when the TIR Invoice was accounted in IRU systems.
- **DocumentCurrencyCode:** the currency used through-out the document ; it should always be CHF.
- **OrderReference:** the reference to the order made by the association ("IRU reference").
- **DespatchDocumentReference:** the unique identifier of the Despatch document ("Delivery note").
- **SupplierParty:** it should always be the IRU.
- **CustomerParty:** it should always be the Association.
- **InvoiceLine:** the details of each line of the invoice. It contains:
 - **Id:** the identifier of this line (made from the invoice Id and the line number).
 - **InvoicedQuantity:** the quantity being invoiced.
 - **DespatchLineReference:** the reference to the line on the Despatch document (made from the DespatchDocumentReference and the line number).
 - **Item:** the item being invoiced ; it can either be **TIRCarnetItem** with its **VoletCount** (4, 6, 14, 20), **CarnetType** (ORDINARY, PILOT, TRANSIT), and the range (**FirstTIRCarnetNumber**, **LastTIRCarnetNumber**, **UnitQuantity**(which should be the same as **InvoicedQuantity**) and **PackagesQuantity** (Carnets are shipped in packages of 50 or 100)); or **OtherItem** with a **Description** (as readable on the PDF) and a **Code** (see 7.1.9 on page 70 for the list).
 - **TotalPriceAmount:** the total amount for this line (expressed in **DocumentCurrencyCode** unless specified).

The method that will be called is named `sendInvoice`.

```
<ns2:sendInvoice xmlns="http://www.asktirweb.org/model/common-1" xmlns:ns2="http://www.asktirweb.org/services/TIRAccountingService-1" xmlns:ns3="http://www.asktirweb.org/model/carnet-movement-1" xmlns:ns4="http://www.iru.org/model/tir-actor-1" xmlns:ns5="http://www.asktirweb.org/model/tir-carnet-1" xmlns:ns6="http://www.asktirweb.org/model/carnet-order-1" xmlns:ns7="http://www.asktirweb.org/model/accounting-1" xmlns:ns8="http://www.asktirweb.org/model/invoice-1" xmlns:ns9="http://www.asktirweb.org/model/haulier-1">
  <ns8:Invoice>
    <Id>61001</Id>
    <ns8:IssueDate>2013-04-24</ns8:IssueDate>
    <ns8:DocumentCurrencyCode>CHF</ns8:DocumentCurrencyCode>
    <ns8:OrderReference type="http://association.iru.org/logistics/order">603</ns8:OrderReference>
    <ns8:DespatchDocumentReference type="http://tir.iru.org/logistics/despatch">CB1400540</ns8:DespatchDocumentReference>
    <ns8:SupplierParty>
      <ns4:IRU/>
    </ns8:SupplierParty>
    <ns8:CustomerParty>
      <ns4:Association id="150" name="Test Association"/>
    </ns8:CustomerParty>
    <ns8:InvoiceLine>
      <Id>61001-1</Id>
      <ns8:InvoicedQuantity>2000</ns8:InvoicedQuantity>
      <ns8:DespatchLineReference type="http://tir.iru.org/logistics/despatch/line">CB1400540-1</ns8:DespatchLineReference>
      <ns8:Item>
        <ns5:TIRCarnetItem>
          <ns5:VoletCount>14</ns5:VoletCount>
          <ns5:CarnetType>ORDINARY</ns5:CarnetType>
          <ns5:TIRCarnetRangeInstance>
            <ns5:FirstTIRCarnetNumber>XC91398001</ns5:FirstTIRCarnetNumber>
            <ns5>LastTIRCarnetNumber>XW91400000</ns5>LastTIRCarnetNumber>
            <ns5:UnitQuantity>2000</ns5:UnitQuantity>
            <ns5:PackagesQuantity>40</ns5:PackagesQuantity>
          </ns5:TIRCarnetRangeInstance>
        </ns5:TIRCarnetItem>
      </ns8:Item>
    </ns8:InvoiceLine>
  </ns8:Invoice>
</ns2:sendInvoice>
```

```

<ns8:TotalPriceAmount>120000.00</ns8:TotalPriceAmount>
</ns8:InvoiceLine>
<ns8:InvoiceLine>
  <Id>61001-2</Id>
  <ns8:InvoicedQuantity>8700</ns8:InvoicedQuantity>
  <ns8:DespatchLineReference type="http://tir.iru.org/logistics/despatch/line">CB1400540-2</ns8:DespatchLineReference>
  <ns8:Item>
    <ns5:TIRCarnetItem>
      <ns5:VoletCount>14</ns5:VoletCount>
      <ns5:CarnetType>ORDINARY</ns5:CarnetType>
      <ns5:TIRCarnetRangeInstance>
        <ns5:FirstTIRCarnetNumber>XC92088001</ns5:FirstTIRCarnetNumber>
        <ns5>LastTIRCarnetNumber>AX92096700</ns5>LastTIRCarnetNumber>
        <ns5:UnitQuantity>8700</ns5:UnitQuantity>
        <ns5:PackagesQuantity>174</ns5:PackagesQuantity>
      </ns5:TIRCarnetRangeInstance>
    </ns5:TIRCarnetItem>
  </ns8:Item>
  <ns8:TotalPriceAmount>500000.00</ns8:TotalPriceAmount>
</ns8:InvoiceLine>
<ns8:InvoiceLine>
  <Id>61001-3</Id>
  <ns8:InvoicedQuantity>10700</ns8:InvoicedQuantity>
  <ns8:Item>
    <ns8:OtherItem>
      <ns8:Code type="http://wineur.git.ch/invoicing/item-code">FR_SURCHARGE</ns8:Code>
      <ns8:Description>Surcharge TIR participation</ns8:Description>
    </ns8:OtherItem>
  </ns8:Item>
  <ns8:TotalPriceAmount>610.97</ns8:TotalPriceAmount>
</ns8:InvoiceLine>
<ns8:InvoiceLine>
  <Id>61001-4</Id>
  <ns8:InvoicedQuantity>10700</ns8:InvoicedQuantity>
  <ns8:Item>
    <ns8:OtherItem>
      <ns8:Code type="http://wineur.git.ch/invoicing/item-code">FR_PACKAGING</ns8:Code>
      <ns8:Description>Participation Secure Packaging Charges</ns8:Description>
    </ns8:OtherItem>
  </ns8:Item>
  <ns8:TotalPriceAmount>107.00</ns8:TotalPriceAmount>
</ns8:InvoiceLine>
<ns8:InvoiceLine>
  <Id>61001-5</Id>
  <ns8:InvoicedQuantity>10700</ns8:InvoicedQuantity>
  <ns8:Item>
    <ns8:OtherItem>
      <ns8:Code type="http://wineur.git.ch/invoicing/item-code">FR_TRANSP INSUR</ns8:Code>
      <ns8:Description>Transport insurance</ns8:Description>
    </ns8:OtherItem>
  </ns8:Item>
  <ns8:TotalPriceAmount>50.00</ns8:TotalPriceAmount>
</ns8:InvoiceLine>
<ns8:InvoiceLine>
  <Id>61001-6</Id>
  <ns8:InvoicedQuantity>1</ns8:InvoicedQuantity>
  <ns8:Item>
    <ns8:OtherItem>
      <ns8:Code type="http://wineur.git.ch/invoicing/item-code">FR_TRANSPORT</ns8:Code>
      <ns8:Description>Transport</ns8:Description>
    </ns8:OtherItem>
  </ns8:Item>
  <ns8:TotalPriceAmount>80.00</ns8:TotalPriceAmount>
</ns8:InvoiceLine>
<ns8:InvoiceLine>
  <Id>61001-7</Id>
  <ns8:InvoicedQuantity>1</ns8:InvoicedQuantity>
  <ns8:Item>
    <ns8:OtherItem>
      <ns8:Code type="http://wineur.git.ch/invoicing/item-code">FR_TRANSP-RET</ns8:Code>
      <ns8:Description>Transport return</ns8:Description>
    </ns8:OtherItem>
  </ns8:Item>
  <ns8:TotalPriceAmount>90.00</ns8:TotalPriceAmount>
</ns8:InvoiceLine>
</ns8:Invoice>
</ns2:sendInvoice>

```

2.2.2 Sending the TIR Carnet Receipt Advice

The TIR Carnet Receipt Advice (of `TIRCarnetReceiptAdviceType` in `http://www.asktirweb.org/model/tir-carnet-movement-1` namespace, as defined in 7.1.10 on page 70) details contain:

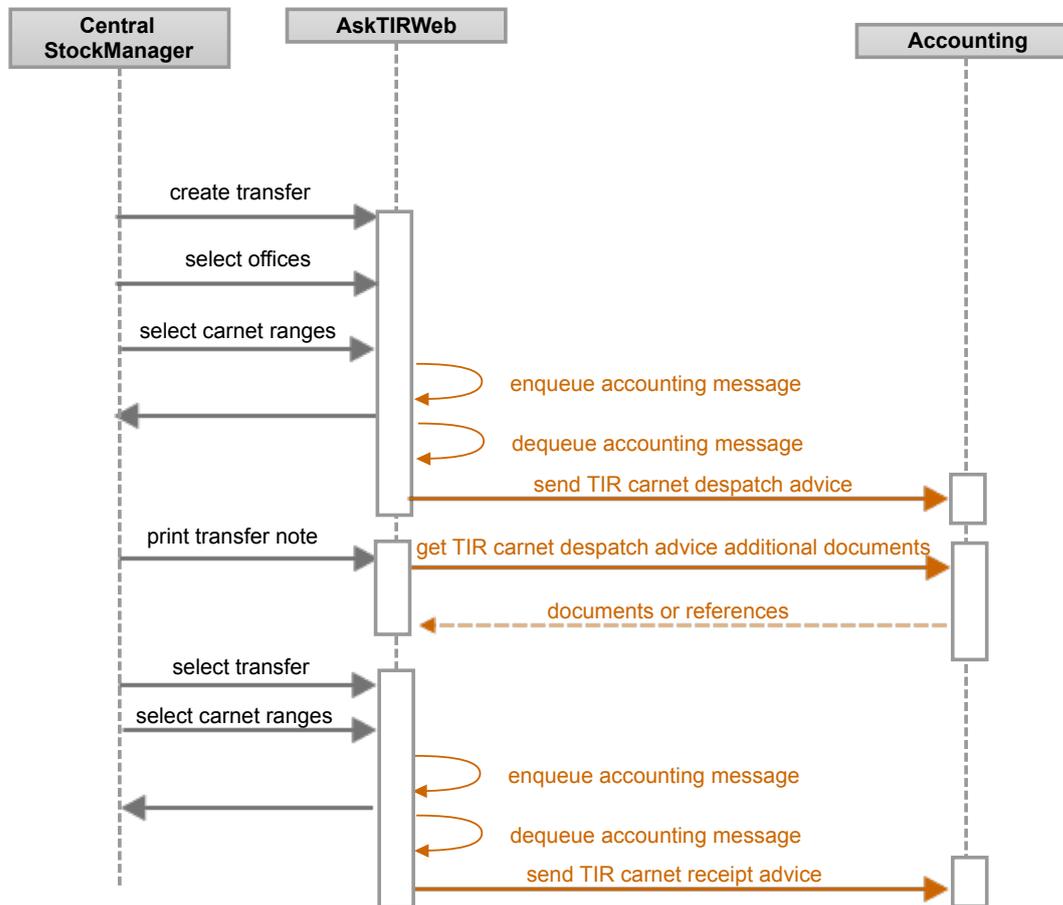
- **Id**: the unique identifier of the acknowledgement event.
- **IssueDate**: the date of the acknowledgement.

- Reference: a list that will contain a Reference to the Invoice and a Reference to the Despatch.
- DespatchParty: it should always be the IRU.
- DeliveryParty: it should always be the Association Branch that received the Carnets (currently it is possible to acknowledge carnets only at the Head-Quarter).
- TIRCarnetReceiptLine: the details of each line of the receipt advice. It contains:
 - Id: the identifier of this line (made from the TIR carnet receipt advice Id and the line number).
 - Quantity: the quantity being received.
 - TIRCarnetItem with its VoletCount (4, 6, 14, 20), CarnetType (ORDINARY, PILOT, TRANSIT), and the range (FirstTIRCarnetNumber, LastTIRCarnetNumber, UnitQuantity (which should be the same as the Quantity) and PackagesQuantity (Carnets are shipped in packages of 50 or 100)).

The method that will be called is named sendTIRCarnetReceiptAdvice.

```
<sendTIRCarnetReceiptAdvice xmlns="http://www.asktirweb.org/services/TIRAccountingService-1" xmlns:ns2="http://www.asktirweb.org/model/common-1"
  xmlns:ns3="http://www.asktirweb.org/model/invoice-1" xmlns:ns4="http://www.iru.org/model/tir-actor-1" xmlns:ns5="http://www.asktirweb.org
/model/tir-carnet-1" xmlns:ns6="http://www.asktirweb.org/model/carnet-order-1" xmlns:ns7="http://www.asktirweb.org/model/carnet-movement-1"
  xmlns:ns8="http://www.asktirweb.org/model/haulier-1" xmlns:ns10="http://www.asktirweb.org/model/accounting-1">
  <ns7:TIRCarnetReceiptAdvice>
    <ns2:Id>4261461</ns2:Id>
    <ns7:IssueDate>2013-05-13T00:00:00.000+03:00</ns7:IssueDate>
    <ns7:Reference type="http://tir.iru.org/accounting/invoice" date="2013-04-24T00:00:00+01:00">61001</ns7:Reference>
    <ns7:Reference type="http://tir.iru.org/logistics/despatch">CB1400540</ns7:Reference>
    <ns7:DespatchParty>
      <ns4:IRU/>
    </ns7:DespatchParty>
    <ns7:DeliveryParty>
      <ns2:AssociationOffice id="TST" name="Test Office" associationId="150"/>
    </ns7:DeliveryParty>
    <ns7:TIRCarnetReceiptLine>
      <ns2:Id>4261461-1</ns2:Id>
      <ns7:Quantity>2000</ns7:Quantity>
      <ns5:TIRCarnetItem>
        <ns5:VoletCount>14</ns5:VoletCount>
        <ns5:CarnetType>ORDINARY</ns5:CarnetType>
        <ns5:TIRCarnetRangeInstance>
          <ns5:FirstTIRCarnetNumber>XC91398001</ns5:FirstTIRCarnetNumber>
          <ns5>LastTIRCarnetNumber>XW91400000</ns5>LastTIRCarnetNumber>
          <ns5:UnitQuantity>2000</ns5:UnitQuantity>
          <ns5:PackagesQuantity>40</ns5:PackagesQuantity>
        </ns5:TIRCarnetRangeInstance>
      </ns5:TIRCarnetItem>
    </ns7:TIRCarnetReceiptLine>
  </ns7:TIRCarnetReceiptAdvice>
</sendTIRCarnetReceiptAdvice>
```

2.3 Transfer between branches



The process happens in two distinct phases, therefore two messages will be sent to the accounting system.

Upon sending, the TIR Carnet Despatch Advice (of `TIRCarnetDespatchAdviceType` type in `http://www.asktirweb.org/model/tir-carnet-movement-1` namespace, as defined in 7.1.10 on page 70) details contain:

- **Id:** the unique identifier of the transfer event.
- **IssueDate:** the date of the transfer.
- **DespatchParty:** it should always be the Association Branch from which the Carnets are sent.
- **DeliveryParty:** it should always be the Association Branch will receive the sent Carnets.
- **TIRCarnetDespatchLine:** the details of each line of the despatch advice. It contains:
 - **Id:** the identifier of this line (made from the TIR carnet despatch advice Id and the line number).

- Quantity: the quantity being received.
- TIRCarnetItemwith its VoletCount (4, 6, 14, 20), CarnetType (ORDINARY, PILOT, TRANSIT), and the range (FirstTIRCarnetNumber, LastTIRCarnet-Number, UnitQuantity (which should be the same as the Quantity).

The method that will be called is named sendTIRCarnetDespatchAdvice.

```
<ns3:sendTIRCarnetDespatchAdvice xmlns="http://www.asktirweb.org/model/haulier-1" xmlns:ns2="http://www.asktirweb.org/model/common-1" xmlns:ns3="http://www.asktirweb.org/services/TIRAccountingService-1" xmlns:ns4="http://www.asktirweb.org/model/carnet-movement-1" xmlns:ns5="http://www.iru.org/model/tir-actor-1" xmlns:ns6="http://www.asktirweb.org/model/tir-carnet-1" xmlns:ns7="http://www.asktirweb.org/model/accounting-1" xmlns:ns8="http://www.asktirweb.org/model/invoice-1" xmlns:ns9="http://www.asktirweb.org/model/carnet-order-1">
  <ns4:TIRCarnetDespatchAdvice>
    <ns2:Id>4232772</ns2:Id>
    <ns4:IssueDate>2013-11-01T00:00:00.000+03:00</ns4:IssueDate>
    <ns4:DespatchParty>
      <ns2:AssociationOffice id="TST" name="Test Office" associationId="150"/>
    </ns4:DespatchParty>
    <ns4:DeliveryParty>
      <ns2:AssociationOffice id="RCV" name="Receiving Office" associationId="150"/>
    </ns4:DeliveryParty>
    <ns4:TIRCarnetDespatchLine>
      <ns2:Id>4232772-1</ns2:Id>
      <ns4:Quantity>100</ns4:Quantity>
      <ns6:TIRCarnetItem>
        <ns6:VoletCount>4</ns6:VoletCount>
        <ns6:CarnetType>ORDINARY</ns6:CarnetType>
        <ns6:TIRCarnetRangeInstance>
          <ns6:FirstTIRCarnetNumber>XB92115201</ns6:FirstTIRCarnetNumber>
          <ns6>LastTIRCarnetNumber>XW92115300</ns6>LastTIRCarnetNumber>
          <ns6:UnitQuantity>100</ns6:UnitQuantity>
        </ns6:TIRCarnetRangeInstance>
      </ns6:TIRCarnetItem>
    </ns4:TIRCarnetDespatchLine>
  </ns4:TIRCarnetDespatchAdvice>
</ns3:sendTIRCarnetDespatchAdvice>
```

Upon receiving, the TIR Carnet Receipt Advice (of TIRCarnetReceiptAdviceType type in <http://www.asktirweb.org/model/tir-carnet-movement-1> namespace, as defined in 7.1.10 on page 70) details contain:

- Id: the unique identifier of the transfer acknowledgement event.
- IssueDate: the date of the transfer acknowledgement.
- Reference: the Reference to the TIR Carnet Despatch Advice.
- DespatchParty: it should always be the Association Branch from which the Carnets are sent.
- DeliveryParty: it should always be the Association Branch which received the sent Carnets.
- TIRCarnetReceiptLine: the details of each line of the receipt advice. It contains:
 - Id: the identifier of this line (made from the TIR carnet despatch advice Id and the line number).
 - Quantity: the quantity being received.
 - TIRCarnetItemwith its VoletCount (4, 6, 14, 20), CarnetType (ORDINARY, PILOT, TRANSIT), and the range (FirstTIRCarnetNumber, LastTIRCarnet-Number, UnitQuantity (which should be the same as the Quantity).

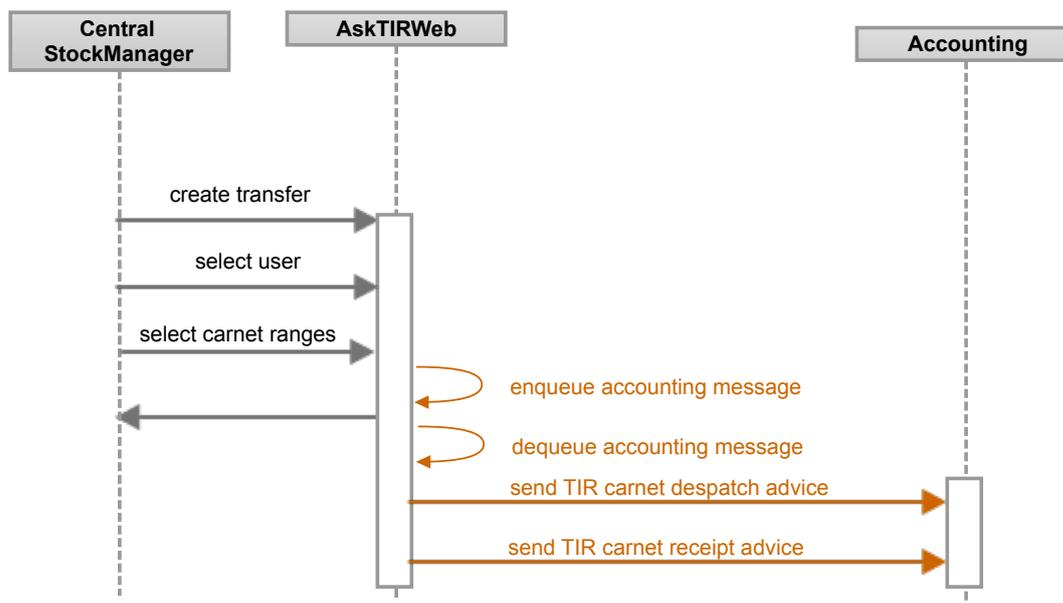
The method that will be called is named sendTIRCarnetReceiptAdvice.

```

<ns3:sendTIRCarnetReceiptAdvice xmlns="http://www.asktirweb.org/model/haulier-1" xmlns:ns2="http://www.asktirweb.org/model/common-1" xmlns:ns3="
http://www.asktirweb.org/services/TIRAccountingService-1" xmlns:ns4="http://www.asktirweb.org/model/carnet-movement-1" xmlns:ns5="http://
www.iru.org/model/tir-actor-1" xmlns:ns6="http://www.asktirweb.org/model/tir-carnet-1" xmlns:ns7="http://www.asktirweb.org/model/
accounting-1" xmlns:ns8="http://www.asktirweb.org/model/invoice-1" xmlns:ns9="http://www.asktirweb.org/model/carnet-order-1">
  <ns4:TIRCarnetReceiptAdvice>
    <ns2:Id>4233386</ns2:Id>
    <ns4:IssueDate>2013-11-26T00:00:00.000+03:00</ns4:IssueDate>
    <ns4:DespatchParty>
      <ns2:AssociationOffice id="TST" name="Test Office" associationId="150"/>
    </ns4:DespatchParty>
    <ns4:DeliveryParty>
      <ns2:AssociationOffice id="RCV" name="Receiving Office" associationId="150"/>
    </ns4:DeliveryParty>
    <ns4:TIRCarnetReceiptLine>
      <ns2:Id>4233386-1</ns2:Id>
      <ns4:Quantity>100</ns4:Quantity>
      <ns6:TIRCarnetItem>
        <ns6:VoletCount>4</ns6:VoletCount>
        <ns6:CarnetType>ORDINARY</ns6:CarnetType>
        <ns6:TIRCarnetRangeInstance>
          <ns6:FirstTIRCarnetNumber>XB92115201</ns6:FirstTIRCarnetNumber>
          <ns6:LastTIRCarnetNumber>XW92115300</ns6:LastTIRCarnetNumber>
          <ns6:UnitQuantity>100</ns6:UnitQuantity>
        </ns6:TIRCarnetRangeInstance>
      </ns6:TIRCarnetItem>
    </ns4:TIRCarnetReceiptLine>
  </ns4:TIRCarnetReceiptAdvice>
</ns3:sendTIRCarnetReceiptAdvice>

```

2.4 Assignment to a mini-store



Similarly to the transfer between branches, and though there is a single action in the application, two messages will be sent. These messages are very similar to the transfer messages, except that the delivery party will be a User.

Upon sending, the TIR Carnet Despatch Advice (of `TIRCarnetDespatchAdviceType` type in `http://www.asktirweb.org/model/tir-carnet-movement-1` namespace, as defined in 7.1.10 on page 70) details contain:

- Id: a unique identifier of the assignment.
- IssueDate: the date of the assignment.

- **DespatchParty**: it should always be the Association Branch of the User.
- **DeliveryParty**: it should always be the User who will receive the Carnets.
- **TIRCarnetDespatchLine**: the details of each line of the despatch advice. It contains:
 - **Id**: the identifier of this line (made from the TIR carnet despatch advice Id and the line number).
 - **Quantity**: the quantity being received.
 - **TIRCarnetItem** with its **VoletCount** (4, 6, 14, 20), **CarnetType** (ORDINARY, PILOT, TRANSIT), and the range (**FirstTIRCarnetNumber**, **LastTIRCarnetNumber**, **UnitQuantity** (which should be the same as the **Quantity**)).

The method that will be called is named `sendTIRCarnetDespatchAdvice`.

```
<ns2:sendTIRCarnetDespatchAdvice xmlns="http://www.asktirweb.org/model/common-1" xmlns:ns2="http://www.asktirweb.org/services/TIRAccountingService-1" xmlns:ns3="http://www.asktirweb.org/model/carnet-movement-1" xmlns:ns4="http://www.iru.org/model/tir-actor-1" xmlns:ns5="http://www.asktirweb.org/model/tir-carnet-1" xmlns:ns6="http://www.asktirweb.org/model/carnet-order-1" xmlns:ns7="http://www.asktirweb.org/model/accounting-1" xmlns:ns8="http://www.asktirweb.org/model/invoice-1" xmlns:ns9="http://www.asktirweb.org/model/haulier-1">
  <ns3:TIRCarnetDespatchAdvice>
    <Id>1386000234174</Id>
    <ns3:IssueDate>2013-12-02T19:03:54.174+03:00</ns3:IssueDate>
    <ns3:DespatchParty>
      <ns2:AssociationOffice id="TST" name="Test Office" associationId="150"/>
    </ns3:DespatchParty>
    <ns3:DeliveryParty>
      <User username="test150" name="First Last" associationId="150"/>
    </ns3:DeliveryParty>
    <ns3:TIRCarnetDespatchLine>
      <Id>1386000234174-1</Id>
      <ns3:Quantity>1</ns3:Quantity>
      <ns5:TIRCarnetItem>
        <ns5:VoletCount>14</ns5:VoletCount>
        <ns5:CarnetType>ORDINARY</ns5:CarnetType>
        <ns5:TIRCarnetRangeInstance>
          <ns5:FirstTIRCarnetNumber>XC91398001</ns5:FirstTIRCarnetNumber>
          <ns5>LastTIRCarnetNumber>XC91398001</ns5>LastTIRCarnetNumber>
          <ns5:UnitQuantity>1</ns5:UnitQuantity>
        </ns5:TIRCarnetRangeInstance>
      </ns5:TIRCarnetItem>
    </ns3:TIRCarnetDespatchLine>
  </ns3:TIRCarnetDespatchAdvice>
</ns2:sendTIRCarnetDespatchAdvice>
```

Upon receiving, the TIR Carnet Receipt Advice (of `TIRCarnetReceiptAdviceType` type in `http://www.asktirweb.org/model/tir-carnet-movement-1` namespace, as defined in 7.1.10 on page 70) details contain:

- **Id**: a unique identifier of the assignment.
- **IssueDate**: the date of the assignment.
- **Reference**: the Reference to the TIR Carnet Despatch Advice.
- **DespatchParty**: it should always be the Association Branch of the User.
- **DeliveryParty**: it should always be the User who received the Carnets.
- **TIRCarnetReceiptLine**: the details of each line of the receipt advice. It contains:
 - **Id**: the identifier of this line (made from the TIR carnet despatch advice Id and the line number).
 - **Quantity**: the quantity being received.

- TIRCarnetItem with its VoletCount (4, 6, 14, 20), CarnetType (ORDINARY, PILOT, TRANSIT), and the range (FirstTIRCarnetNumber, LastTIRCarnetNumber, UnitQuantity (which should be the same as the Quantity).

The method that will be called is named sendTIRCarnetReceiptAdvice.

```
<ns2:sendTIRCarnetReceiptAdvice xmlns="http://www.asktirweb.org/model/common-1" xmlns:ns2="http://www.asktirweb.org/services/TIRAccountingService-1" xmlns:ns3="http://www.asktirweb.org/model/carnet-movement-1" xmlns:ns4="http://www.iru.org/model/tir-actor-1" xmlns:ns5="http://www.asktirweb.org/model/tir-carnet-1" xmlns:ns6="http://www.asktirweb.org/model/carnet-order-1" xmlns:ns7="http://www.asktirweb.org/model/accounting-1" xmlns:ns8="http://www.asktirweb.org/model/invoice-1" xmlns:ns9="http://www.asktirweb.org/model/haulier-1">
  <ns3:TIRCarnetReceiptAdvice>
    <Id>1386000234174</Id>
    <ns3:IssueDate>2013-12-02T19:03:54.174+03:00</ns3:IssueDate>
    <ns3:Reference type="http://www.asktirweb.org/logistics/despatch">1386000234174</ns3:Reference>
    <ns3:DespatchParty>
      <ns2:AssociationOffice id="TST" name="Test Office" associationId="150"/>
    </ns3:DespatchParty>
    <ns3:DeliveryParty>
      <User username="test150" name="First Last" associationId="150"/>
    </ns3:DeliveryParty>
    <ns3:TIRCarnetReceiptLine>
      <Id>1386000234174-1</Id>
      <ns3:Quantity>1</ns3:Quantity>
      <ns5:TIRCarnetItem>
        <ns5:VoletCount>14</ns5:VoletCount>
        <ns5:CarnetType>ORDINARY</ns5:CarnetType>
        <ns5:TIRCarnetRangeInstance>
          <ns5:FirstTIRCarnetNumber>XC91398001</ns5:FirstTIRCarnetNumber>
          <ns5>LastTIRCarnetNumber>XC91398001</ns5>LastTIRCarnetNumber>
          <ns5:UnitQuantity>1</ns5:UnitQuantity>
          <ns5:PackagesQuantity>1</ns5:PackagesQuantity>
        </ns5:TIRCarnetRangeInstance>
      </ns5:TIRCarnetItem>
    </ns3:TIRCarnetReceiptLine>
  </ns3:TIRCarnetReceiptAdvice>
</ns2:sendTIRCarnetReceiptAdvice>
```

When the Carnets are returned to Central stock, the same couple of messages is sent but the DespatchParty and DeliveryParty are reversed.

2.5 Issuance of TIR Carnets

2.5.1 Verification of Haulier accounts

During the issuance process, AskTIR^{web} can optionally query the Association's accounting system to perform checks of the Haulier accounts and possibly to block the issuance process. The first phase is to call synchronously `getUsableHaulierAccountsForOrder` that takes a single argument `tirCarnetOrder` (of `TIRCarnetOrderType` in `http://www.asktirweb.org/model/carnet-order-1` namespace, as defined in 7.1.3 on page 63), whose details contain:

- **Id:** the unique identifier of the order.
- **IssueDate:** the date of the order.
- **CustomerParty:** the Haulier that ordered the Carnets.
- **SupplierParty:** the Association that will issue the Carnets.
- **TIRCarnetOrderLine:** the details of each line of the order. It contains:
 - **Id:** the identifier of this line (made from the Order Id and the line number).
 - **Quantity:** the quantity for this type of Carnet being issued.

- TIRCarnetItem with its VoletCount (4, 6, 14, 20) and CarnetType (ORDINARY, PILOT, TRANSIT).

```
<getUsableHaulierAccountsForOrder xmlns="http://www.asktirweb.org/services/TIRAccountingService-1" xmlns:ns11="http://rts.iru.org/model/carnet-1"
  xmlns:ns12="http://www.asktirweb.org/model/contact-1" xmlns:ns13="http://rts.iru.org/model/termination-1" xmlns:ns14="http://www.iru.org
/model/iso-4217" xmlns:ns2="http://www.asktirweb.org/model/common-1" xmlns:ns3="http://www.asktirweb.org/model/carnet-movement-1" xmlns:
ns4="http://www.iru.org/model/tir-actor-1" xmlns:ns5="http://www.asktirweb.org/model/tir-carnet-1" xmlns:ns6="http://www.asktirweb.org/
model/accounting-1" xmlns:ns7="http://www.asktirweb.org/model/invoice-1" xmlns:ns8="http://www.asktirweb.org/model/carnet-order-1" xmlns:
ns9="http://www.asktirweb.org/model/haulier-1">
<tirCarnetOrder>
  <ns2:Id>ORDER2</ns2:Id>
  <ns8:CustomerParty>
    <ns4:Haulier id="XAK/150/27914" name="Haulier created for test purpose 27914"/>
  </ns8:CustomerParty>
  <ns8:SupplierParty>
    <ns4:Association id="150" name="Test Association"/>
  </ns8:SupplierParty>
  <ns8:TIRCarnetOrderLine>
    <ns2:Id>ORDER2-1</ns2:Id>
    <ns8:Quantity>1</ns8:Quantity>
    <ns5:TIRCarnetItem>
      <ns5:VoletCount>4</ns5:VoletCount>
      <ns5:CarnetType>PILOT</ns5:CarnetType>
    </ns5:TIRCarnetItem>
  </ns8:TIRCarnetOrderLine>
  <ns8:TIRCarnetOrderLine>
    <ns2:Id>ORDER2-2</ns2:Id>
    <ns8:Quantity>0</ns8:Quantity>
    <ns5:TIRCarnetItem>
      <ns5:VoletCount>6</ns5:VoletCount>
      <ns5:CarnetType>PILOT</ns5:CarnetType>
    </ns5:TIRCarnetItem>
  </ns8:TIRCarnetOrderLine>
  <ns8:TIRCarnetOrderLine>
    <ns2:Id>ORDER2-3</ns2:Id>
    <ns8:Quantity>0</ns8:Quantity>
    <ns5:TIRCarnetItem>
      <ns5:VoletCount>4</ns5:VoletCount>
      <ns5:CarnetType>ORDINARY</ns5:CarnetType>
    </ns5:TIRCarnetItem>
  </ns8:TIRCarnetOrderLine>
  <ns8:TIRCarnetOrderLine>
    <ns2:Id>ORDER2-4</ns2:Id>
    <ns8:Quantity>0</ns8:Quantity>
    <ns5:TIRCarnetItem>
      <ns5:VoletCount>6</ns5:VoletCount>
      <ns5:CarnetType>ORDINARY</ns5:CarnetType>
    </ns5:TIRCarnetItem>
  </ns8:TIRCarnetOrderLine>
  <ns8:TIRCarnetOrderLine>
    <ns2:Id>ORDER2-5</ns2:Id>
    <ns8:Quantity>0</ns8:Quantity>
    <ns5:TIRCarnetItem>
      <ns5:VoletCount>14</ns5:VoletCount>
      <ns5:CarnetType>ORDINARY</ns5:CarnetType>
    </ns5:TIRCarnetItem>
  </ns8:TIRCarnetOrderLine>
  <ns8:TIRCarnetOrderLine>
    <ns2:Id>ORDER2-6</ns2:Id>
    <ns8:Quantity>0</ns8:Quantity>
    <ns5:TIRCarnetItem>
      <ns5:VoletCount>20</ns5:VoletCount>
      <ns5:CarnetType>ORDINARY</ns5:CarnetType>
    </ns5:TIRCarnetItem>
  </ns8:TIRCarnetOrderLine>
</tirCarnetOrder>
</getUsableHaulierAccountsForOrder>
```

The Association accounting system should return a list of accounts belonging to the Haulier which are sufficiently provisioned to fulfill the order. The details of a haulierAccount (of AccountType type in <http://www.asktirweb.org/model/accounting-1> namespace) are:

- Id: the unique identifier of the account in the accounting system.
- CurrencyCode: the currency for this account.

```
<getUsableHaulierAccountsForOrderResponse xmlns="http://www.asktirweb.org/services/TIRAccountingService-1" xmlns:ns2="http://www.asktirweb.org/
model/common-1" xmlns:ns3="http://www.asktirweb.org/model/carnet-movement-1" xmlns:ns4="http://www.iru.org/model/tir-actor-1" xmlns:ns5="
http://www.asktirweb.org/model/tir-carnet-1" xmlns:ns6="http://www.asktirweb.org/model/accounting-1" xmlns:ns7="http://www.asktirweb.org/
model/invoice-1" xmlns:ns8="http://www.asktirweb.org/model/carnet-order-1" xmlns:ns9="http://www.asktirweb.org/model/haulier-1" xmlns:ns11
="http://www.iru.org/model/iso-4217">
<haulierAccount>
  <ns2:Id>12-46546-1</ns2:Id>
  <ns6:CurrencyCode>CHF</ns6:CurrencyCode>
</haulierAccount>
<haulierAccount>
```

```
<ns2:Id>PB-8941-FEDFE</ns2:Id>  
<ns6:CurrencyCode>USD</ns6:CurrencyCode>  
</haulierAccount>  
</getUsableHaulierAccountsForOrderResponse>
```

If the list is empty or if there is an error, the issuance cannot continue. In case of error (ServiceException), the contained Message will be displayed to the user.

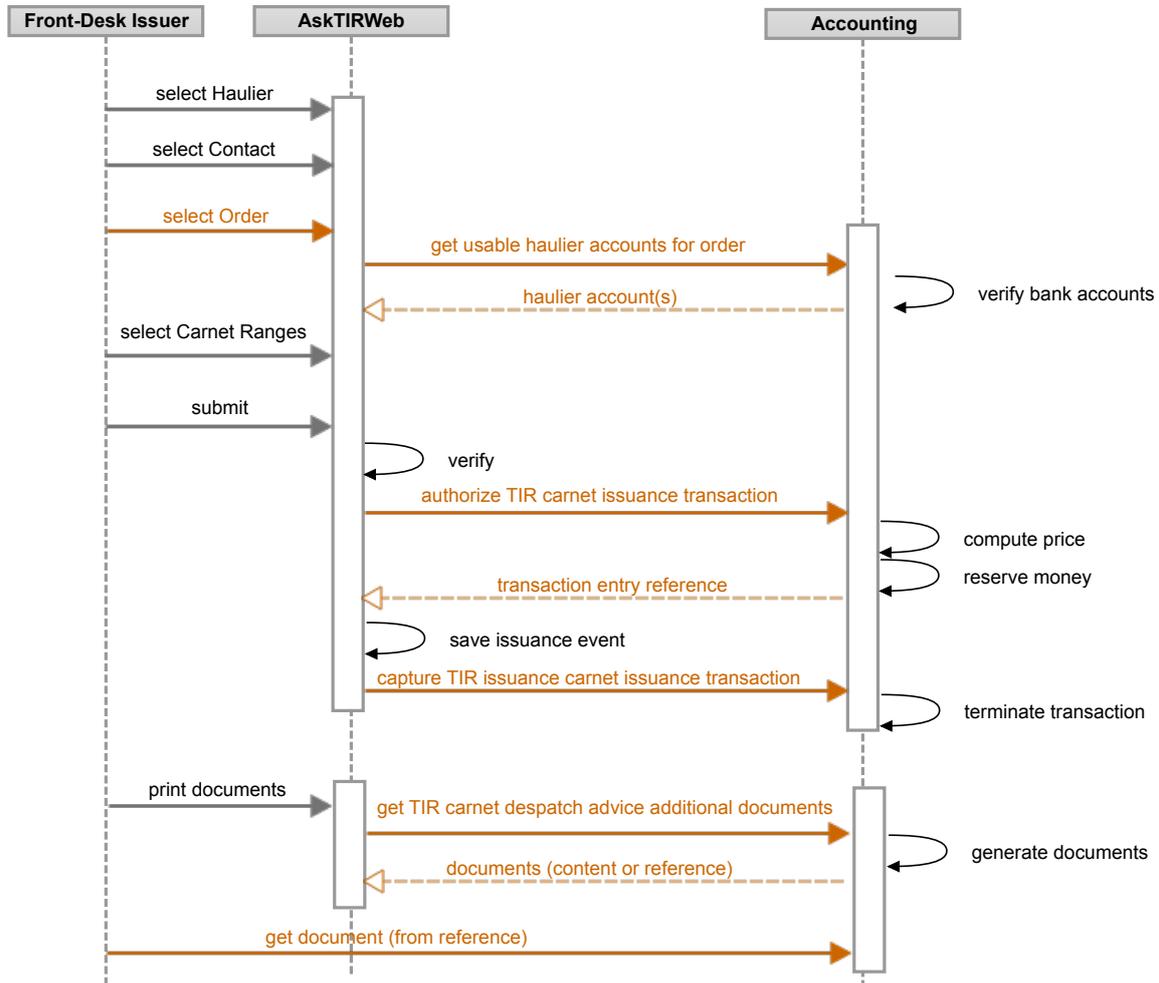
2.5.2 Payment

AskTIR^{web} payment phase is modeled after the Credit Card systems:

- either the transaction is authorised first (so the money cannot be taken from the account), then the issuance happens in AskTIR^{web} and only then the transaction is captured;
- or the issuance first happens in AskTIR^{web} and then the transaction is authorised and captured in a single operation.

This allows the Association to not have to modify their accounting process regarding the issuance.

Using reservation In this mode of operation, there will be a synchronous call to the `authorizeTIRCarnetIssuanceTransactionmethod` with `tirCarnetDespatchAdvice` and optionally the selected `haulierAccount` if the Association chose to use Haulier orders.



The details of the `tirCarnetDespatchAdvice` parameter (of `TIRCarnetDespatchAdviceType` in <http://www.asktirweb.org/model/tir-carnet-movement-1> namespace, as defined in 7.1.10 on page 70) details contain:

- **Id:** the identifier of the issuance.
- **IssueDate:** the date of the issuance.
- **DespatchParty:** it should always be the Association Branch where the Carnets will be issued.
- **DeliveryParty:** it can either be the Haulier who will receive the Carnets or instead be a `HaulierContact`, containing Haulier authorised representative name if issuance method is 'Authorised representative'.
- **TIRCarnetDespatchLine:** the details of each line of the despatch advice. It contains:
 - **Id:** the identifier of this line (made from the issuance `Id` and the line number).
 - **Quantity:** the quantity being received.

- TIRCarnetItem with its VoletCount (4, 6, 14, 20), CarnetType (ORDINARY, PILOT, TRANSIT), and the range (FirstTIRCarnetNumber, LastTIRCarnetNumber, UnitQuantity (which should be the same as the Quantity).

The haulierAccount parameter is one from the list returned by the getUsableHaulierAccountsForOrder method as seen in 2.5.1 on page 17.

```
<authorizeTIRCarnetIssuanceTransaction xmlns="http://www.asktirweb.org/services/TIRAccountingService-1" xmlns:ns11="http://rts.iru.org/model/carnet-1" xmlns:ns12="http://www.asktirweb.org/model/contact-1" xmlns:ns13="http://rts.iru.org/model/termination-1" xmlns:ns14="http://www.iru.org/model/iso-4217" xmlns:ns2="http://www.asktirweb.org/model/common-1" xmlns:ns3="http://www.asktirweb.org/model/carnet-movement-1" xmlns:ns4="http://www.iru.org/model/tir-actor-1" xmlns:ns5="http://www.asktirweb.org/model/tir-carnet-1" xmlns:ns6="http://www.asktirweb.org/model/accounting-1" xmlns:ns7="http://www.asktirweb.org/model/invoice-1" xmlns:ns8="http://www.asktirweb.org/model/carnet-order-1" xmlns:ns9="http://www.asktirweb.org/model/haulier-1">
  <tirCarnetDespatchAdvice>
    <ns2:Id>4268910</ns2:Id>
    <ns3:IssueDate>2014-02-05T17:27:30.416+03:00</ns3:IssueDate>
    <ns3:DespatchParty>
      <ns2:AssociationOffice id="TST" name="Test Office" associationId="150"/>
    </ns3:DespatchParty>
    <ns3:DeliveryParty>
      <ns2:HaulierContact firstName="Ivan" lastName="Ivanovich" haulierId="XAK/150/27914" haulierName="Haulier created for test purpose 27914" />
    </ns3:DeliveryParty>
    <ns3:TIRCarnetDespatchLine>
      <ns2:Id>4268910-1</ns2:Id>
      <ns3:Quantity>1</ns3:Quantity>
      <ns5:TIRCarnetItem>
        <ns5:VoletCount>14</ns5:VoletCount>
        <ns5:CarnetType>ORDINARY</ns5:CarnetType>
        <ns5:TIRCarnetRangeInstance>
          <ns5:FirstTIRCarnetNumber>XK91366807</ns5:FirstTIRCarnetNumber>
          <ns5>LastTIRCarnetNumber>XK91366807</ns5>LastTIRCarnetNumber>
          <ns5:UnitQuantity>1</ns5:UnitQuantity>
        </ns5:TIRCarnetRangeInstance>
      </ns5:TIRCarnetItem>
    </ns3:TIRCarnetDespatchLine>
  </tirCarnetDespatchAdvice>
  <haulierAccount>
    <ns2:Id>12-46546-1</ns2:Id>
    <ns6:CurrencyCode>CHF</ns6:CurrencyCode>
  </haulierAccount>
</authorizeTIRCarnetIssuanceTransaction>
```

The accounting system should return a transactionEntryReference (of ReferenceType type in http://www.asktirweb.org/model/common-1 namespace as defined in 7.1.1 on page 59) that:

- doesn't need to be globally unique; it is only used to correlate the different calls during the issuance process.
- will never be stored by AskTIR^{web} in any way.

```
<authorizeTIRCarnetIssuanceTransactionResponse xmlns="http://www.asktirweb.org/services/TIRAccountingService-1" xmlns:ns2="http://www.asktirweb.org/model/common-1" xmlns:ns3="http://www.asktirweb.org/model/carnet-movement-1" xmlns:ns4="http://www.iru.org/model/tir-actor-1" xmlns:ns5="http://www.asktirweb.org/model/tir-carnet-1" xmlns:ns6="http://www.asktirweb.org/model/accounting-1" xmlns:ns7="http://www.asktirweb.org/model/invoice-1" xmlns:ns8="http://www.asktirweb.org/model/carnet-order-1" xmlns:ns9="http://www.asktirweb.org/model/haulier-1" xmlns:ns11="http://www.iru.org/model/iso-4217">
  <transactionEntryReference>TX_XAK_REF_001</transactionEntryReference>
</authorizeTIRCarnetIssuanceTransactionResponse>
```

Once the issuance is finished in AskTIR^{web} (ie. an Idhas been assigned, the Carnets statuses have changed, etc.), there will be an asynchronous call to:

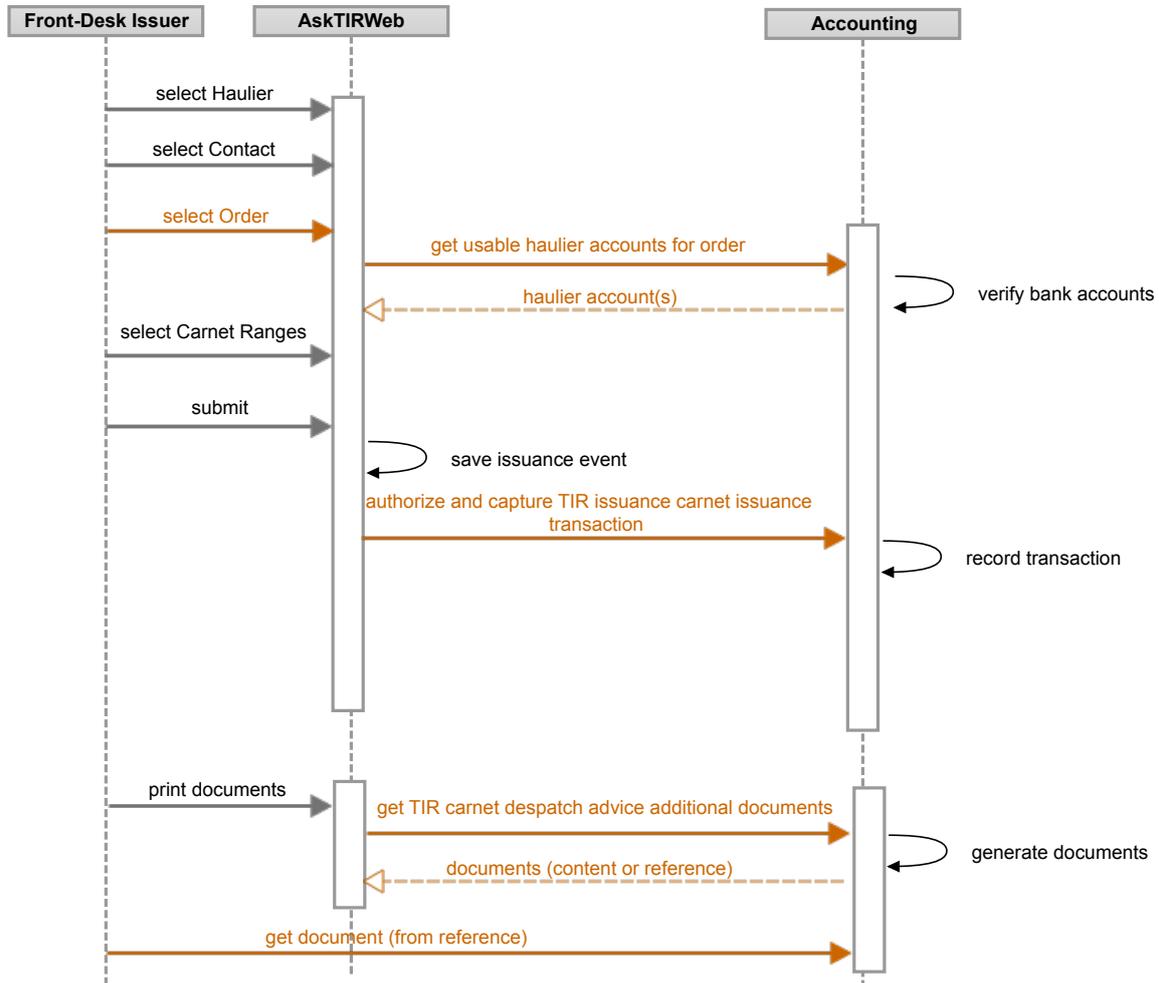
- either captureTIRCarnetIssuanceTransactionif the issuance was performed successfully, with the following parameters:
 - transactionEntryReference: the reference returned by the authorizeTIRCarnetIssuanceTransaction method.
 - tirCarnetDespatchAdviceId: the id assigned to the issuance event.

```
<captureTIRCarnetIssuanceTransaction xmlns="http://www.asktirweb.org/services/TIRAccountingService-1" xmlns:ns11="http://rts.iru.org/model/carnet-1" xmlns:ns12="http://www.asktirweb.org/model/contact-1" xmlns:ns13="http://rts.iru.org/model/termination-1" xmlns:ns14="http://www.iru.org/model/iso-4217" xmlns:ns2="http://www.asktirweb.org/model/common-1" xmlns:ns3="http://www.asktirweb.org/model/carnet-movement-1" xmlns:ns4="http://www.iru.org/model/tir-actor-1" xmlns:ns5="http://www.asktirweb.org/model/tir-carnet-1" xmlns:ns6="http://www.asktirweb.org/model/accounting-1" xmlns:ns7="http://www.asktirweb.org/model/invoice-1" xmlns:ns8="http://www.asktirweb.org/model/carnet-order-1" xmlns:ns9="http://www.asktirweb.org/model/haulier-1">
  <transactionEntryReference>TX_XAK_REF 001</transactionEntryReference>
  <tirCarnetDespatchAdviceId>4268910</tirCarnetDespatchAdviceId>
</captureTIRCarnetIssuanceTransaction>
```

- or reverseTIRCarnetIssuanceTransaction if the issuance failed and the transaction should be reversed in the Accounting system. It will take on the transactionEntryReference as parameter (as returned by authorizeTIRCarnetIssuanceTransaction).

```
<reverseTIRCarnetIssuanceTransaction xmlns="http://www.asktirweb.org/services/TIRAccountingService-1" xmlns:ns11="http://rts.iru.org/model/carnet-1" xmlns:ns12="http://www.asktirweb.org/model/contact-1" xmlns:ns13="http://rts.iru.org/model/termination-1" xmlns:ns14="http://www.iru.org/model/iso-4217" xmlns:ns2="http://www.asktirweb.org/model/common-1" xmlns:ns3="http://www.asktirweb.org/model/carnet-movement-1" xmlns:ns4="http://www.iru.org/model/tir-actor-1" xmlns:ns5="http://www.asktirweb.org/model/tir-carnet-1" xmlns:ns6="http://www.asktirweb.org/model/accounting-1" xmlns:ns7="http://www.asktirweb.org/model/invoice-1" xmlns:ns8="http://www.asktirweb.org/model/carnet-order-1" xmlns:ns9="http://www.asktirweb.org/model/haulier-1">
  <transactionEntryReference>TX_XAK_REF 001</transactionEntryReference>
</reverseTIRCarnetIssuanceTransaction>
```

Without reservation In this mode of operation, after the issuance is finished successfully, there will be an asynchronous call to the authorizeAndCaptureTIRCarnetIssuanceTransaction method with tirCarnetDespatchAdvice and optionally the selected haulierAccount if the Association chose to use Haulier orders.



The details of the `tirCarnetDespatchAdvice` parameter (of `TIRCarnetDespatchAdviceType` type in `http://www.asktirweb.org/model/tir-carnet-movement-1` namespace, as defined in 7.1.10 on page 70) details contain:

- **Id:** the Id of the issuance event.
- **IssueDate:** the date of the issuance.
- **DespatchParty:** it should always be the Association Branch where the Carnets will be issued.
- **DeliveryParty:** it can either be the Haulier who will receive the Carnets or instead be a `HaulierContact`, containing Haulier authorised representative name if issuance method is 'Authorised representative'.
- **TIRCarnetDespatchLine:** the details of each line of the despatch advice. It contains:
 - **Id:** the identifier of this line (made from the `Id` and the line number).
 - **Quantity:** the quantity being received.

- TIRCarnetItem with its VoletCount (4, 6, 14, 20), CarnetType (ORDINARY, PILOT, TRANSIT), and the range (FirstTIRCarnetNumber, LastTIRCarnetNumber, UnitQuantity (which should be the same as the Quantity).

The haulierAccount parameter is one from the list returned by the getUsableHaulierAccountsForOrder method as seen in 2.5.1 on page 17.

```
<authorizeAndCaptureTIRCarnetIssuanceTransaction xmlns="http://www.asktirweb.org/services/TIRAccountingService-1" xmlns:ns1="http://rts.iru.org/model/carnet-1" xmlns:ns2="http://www.asktirweb.org/model/contact-1" xmlns:ns3="http://rts.iru.org/model/termination-1" xmlns:ns4="http://www.iru.org/model/iso-4217" xmlns:ns5="http://www.asktirweb.org/model/common-1" xmlns:ns6="http://www.asktirweb.org/model/carnet-movement-1" xmlns:ns7="http://www.iru.org/model/tir-actor-1" xmlns:ns8="http://www.asktirweb.org/model/tir-carnet-1" xmlns:ns9="http://www.asktirweb.org/model/accounting-1" xmlns:ns10="http://www.asktirweb.org/model/invoice-1" xmlns:ns11="http://www.asktirweb.org/model/carnet-order-1" xmlns:ns12="http://www.asktirweb.org/model/haulier-1">
  <tirCarnetDespatchAdvice>
    <ns2:Id>4268910</ns2:Id>
    <ns3:IssueDate>2014-02-05T17:27:30.416+03:00</ns3:IssueDate>
    <ns3:DespatchParty>
      <ns2:AssociationOffice id="TST" name="Test Office" associationId="150"/>
    </ns3:DespatchParty>
    <ns3:DeliveryParty>
      <ns4:Haulier id="XAK/150/27914" name="Haulier created for test purpose 27914"/>
    </ns3:DeliveryParty>
    <ns3:TIRCarnetDespatchLine>
      <ns2:Id>4268910-1</ns2:Id>
      <ns3:Quantity>1</ns3:Quantity>
      <ns5:TIRCarnetItem>
        <ns5:VoletCount>14</ns5:VoletCount>
        <ns5:CarnetType>ORDINARY</ns5:CarnetType>
        <ns5:TIRCarnetRangeInstance>
          <ns5:FirstTIRCarnetNumber>XK91366807</ns5:FirstTIRCarnetNumber>
          <ns5>LastTIRCarnetNumber>XK91366807</ns5>LastTIRCarnetNumber>
          <ns5:UnitQuantity>1</ns5:UnitQuantity>
        </ns5:TIRCarnetRangeInstance>
      </ns5:TIRCarnetItem>
    </ns3:TIRCarnetDespatchLine>
  </tirCarnetDespatchAdvice>
  <haulierAccount>
    <ns2:Id>12-46546-1</ns2:Id>
    <ns6:CurrencyCode>CHF</ns6:CurrencyCode>
  </haulierAccount>
</authorizeAndCaptureTIRCarnetIssuanceTransaction>
```

2.5.3 Printing additional documents

After the issuance process, AskTIR^{web} can generate an Issue Note that can be printed by the user. This document is in many cases not enough for the Association which has the need to print other documents (for instance, a real invoice).

It is possible for the Accounting system to generate such documents and to let the user access them through AskTIR^{web}, by calling the method getTIRCarnetDespatchAdviceAdditionalDocuments with a tirCarnetDespatchAdviceId parameter (which is the id of the issuance event, as seen in captureTIRCarnetIssuanceTransaction or authorizeAndCaptureTIRCarnetIssuanceTransaction).

```
<getTIRCarnetDespatchAdviceAdditionalDocuments xmlns="http://www.asktirweb.org/services/TIRAccountingService-1" xmlns:ns1="http://rts.iru.org/model/carnet-1" xmlns:ns2="http://www.asktirweb.org/model/contact-1" xmlns:ns3="http://rts.iru.org/model/termination-1" xmlns:ns4="http://www.iru.org/model/iso-4217" xmlns:ns5="http://www.asktirweb.org/model/common-1" xmlns:ns6="http://www.asktirweb.org/model/carnet-movement-1" xmlns:ns7="http://www.iru.org/model/tir-actor-1" xmlns:ns8="http://www.asktirweb.org/model/tir-carnet-1" xmlns:ns9="http://www.asktirweb.org/model/accounting-1" xmlns:ns10="http://www.asktirweb.org/model/invoice-1" xmlns:ns11="http://www.asktirweb.org/model/carnet-order-1" xmlns:ns12="http://www.asktirweb.org/model/haulier-1">
  <tirCarnetDespatchAdviceId>4268910</tirCarnetDespatchAdviceId>
</getTIRCarnetDespatchAdviceAdditionalDocuments>
```

The Accounting system will return a list of documents (of DocumentType type in http://www.asktirweb.org/model/common-1 namespace as defined in 7.1.1 on page 59), whose details are:

- Reference: a textual reference to the document.
- either Location which a URL that will be opened through AskTIR^{web}, or Content that will be streamed directly.

```
<getTIRCarnetDespatchAdviceAdditionalDocumentsResponse xmlns="http://www.asktirweb.org/services/TIRAccountingService-1" xmlns:ns2="http://www.
asktirweb.org/model/common-1" xmlns:ns3="http://www.asktirweb.org/model/carnet-movement-1" xmlns:ns4="http://www.iru.org/model/tir-actor-1
" xmlns:ns5="http://www.asktirweb.org/model/tir-carnet-1" xmlns:ns6="http://www.asktirweb.org/model/accounting-1" xmlns:ns7="http://www.
asktirweb.org/model/invoice-1" xmlns:ns8="http://www.asktirweb.org/model/carnet-order-1" xmlns:ns9="http://www.asktirweb.org/model/haulier
-1" xmlns:ns11="http://www.iru.org/model/iso-4217">
  <document>
    <ns2:Reference date="2014-02-05T17:28:00+03:00">INV_TX_XAK_REF 001</ns2:Reference>
    <ns2:Location>http://acc12.tir-assoc.xak/docs/27914/inv001.pdf</ns2:Location>
  </document>
</getTIRCarnetDespatchAdviceAdditionalDocumentsResponse>
```

2.6 Annulment of issuance of TIR Carnets

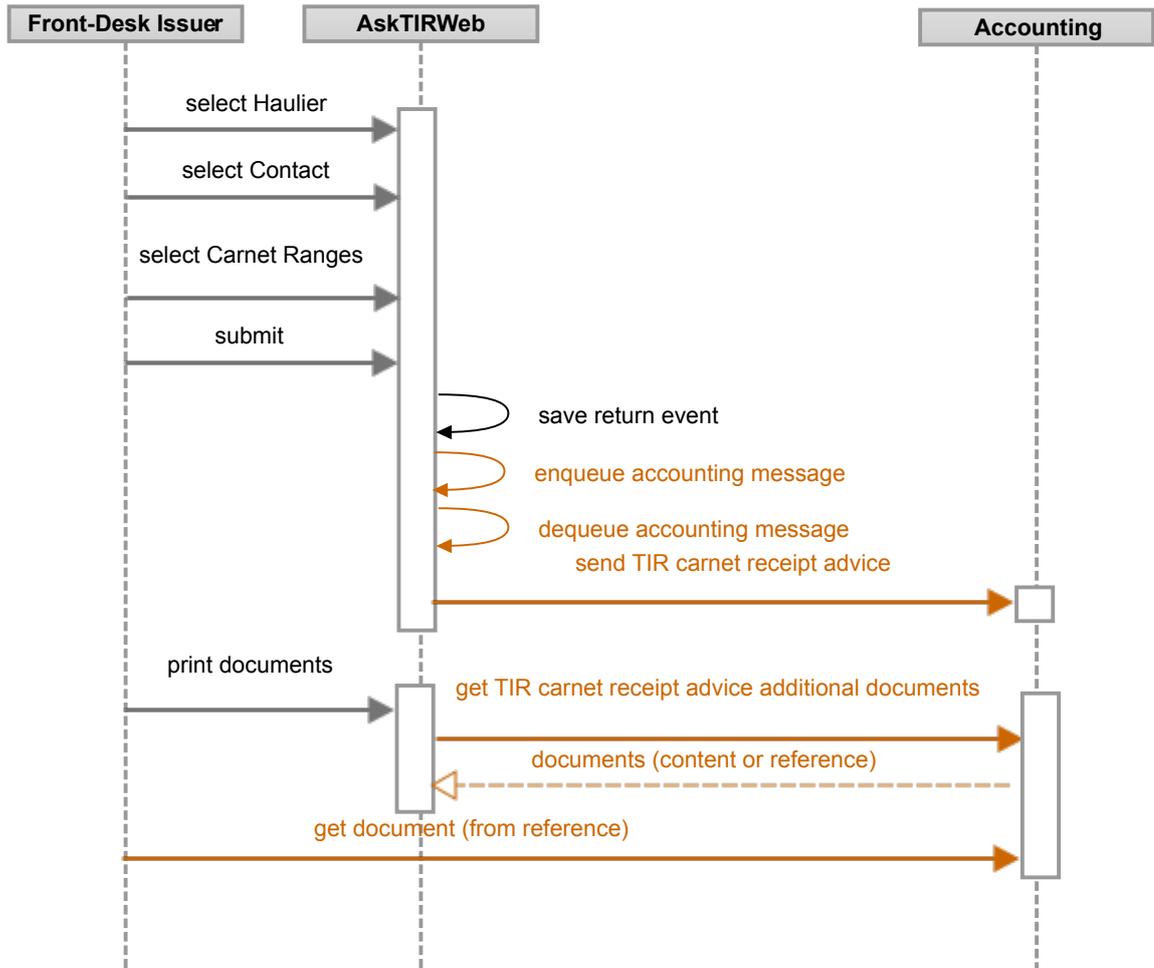
Carnet issuance can be annulled in if certain business conditions have been met (in particular, the carnets must not have been presented to the customs office of departure yet). After the issuance has been successfully annulled by the user, AskTIR^{web} can asynchronously send the corresponding data regarding the event to an external system (ex: Accounting) using the method `followonCreditTIRCarnetIssuanceTransaction`. It has a single parameter `tirCarnetDespatchAdviceId`, which is the identifier of the issuance that was annulled.

```
<followonCreditTIRCarnetIssuanceTransaction xmlns="http://www.asktirweb.org/services/TIRAccountingService-1">
  <tirCarnetDespatchAdviceId>22386260</tirCarnetDespatchAdviceId>
</followonCreditTIRCarnetIssuanceTransaction>
```

2.7 Return of TIR Carnets

2.7.1 Return of TIR Carnets

As soon as return event has been registered, AskTIR^{web} can send all corresponding data regarding the event to an external system (ex: Accounting). Please see the diagram be-



low:

The details of the `tirCarnetDespatchAdvice` parameter (of `TIRCarnetReceiptAdviceType` type in <http://www.asktirweb.org/model/tir-carnet-movement-1> namespace, as defined in 7.1.10 on page 70) details contain:

- **Id:** the Id of the return event.
- **IssueDate:** return date of the carnet.
- **DespatchParty:** it can either be the Haulier who returns the carnet or instead be a `HaulierContact`, containing Haulier authorised representative name if return method is 'Authorised representative'.
- **DeliveryParty:** it should always be the Association Branch where the Carnets are returned to.
- **TIRCarnetReceiptLine:** the details of each line of the receipt advice. It contains:
 - **Id:** the identifier of this line (made from the Id and the line number).
 - **Quantity:** the quantity being received.
 - **TIRCarnetItem** with its `VoletCount` (4, 6, 14, 20), `CarnetType` (ORDINARY, PILOT, TRANSIT), `AdditionalCarnetProperties`, and the range (`FirstTIRCarnetNumber`, `LastTIRCarnetNumber`, `UnitQuantity` (which should be the same as the `Quantity`)).

```

<sendTIRCarnetReceiptAdvice
  xmlns="http://www.asktirweb.org/services/TIRAccountingService-1"
  xmlns:ns10="http://www.asktirweb.org/model/haulier-1" xmlns:ns11="http://rts.iru.org/model/carnet-1"
  xmlns:ns12="http://rts.iru.org/model/termination-1" xmlns:ns13="http://www.asktirweb.org/model/contact-1"
  xmlns:ns2="http://www.asktirweb.org/model/common-1" xmlns:ns3="http://www.asktirweb.org/model/carnet-movement-1"
  xmlns:ns4="http://www.iru.org/model/tir-actor-1" xmlns:ns5="http://www.asktirweb.org/model/tir-carnet-1"
  xmlns:ns6="http://www.asktirweb.org/model/accounting-1" xmlns:ns7="http://www.asktirweb.org/model/invoice-1"
  xmlns:ns8="http://www.asktirweb.org/model/accounting-item-1"
  xmlns:ns9="http://www.asktirweb.org/model/carnet-order-1">
  <ns3:TIRCarnetReceiptAdvice>
    <ns2:Id>5115385</ns2:Id>
    <ns3:IssueDate>2015-04-30T22:19:39.681+06:00</ns3:IssueDate>
    <ns3:DespatchParty>
      <ns4:Haulier id="KAZ/081/236" name="AO Trans-Leasing.KZ" />
    </ns3:DespatchParty>
    <ns3:DeliveryParty>
      <ns2:AssociationOffice associationId="81" id="0" name="Almaty" />
    </ns3:DeliveryParty>
    <ns3:TIRCarnetReceiptLine>
      <ns2:Id>5115385-1</ns2:Id>
      <ns3:Quantity>1</ns3:Quantity>
      <ns5:TIRCarnetItem>
        <ns5:VoletCount>6</ns5:VoletCount>
        <ns5:CarnetType>ORDINARY</ns5:CarnetType>
        <ns5:AdditionalCarnetProperties>
          <ns5:AdditionalCarnetProperty>
            <ns5:NameCode
              type="http://www.asktirweb.org/model/tir-carnet-1/property-name">USED</ns5:NameCode>
            <ns5:Value>true</ns5:Value>
          </ns5:AdditionalCarnetProperty>
        </ns5:AdditionalCarnetProperties>
        <ns5:TIRCarnetRangeInstance>
          <ns5:FirstTIRCarnetNumber>XB76425240</ns5:FirstTIRCarnetNumber>
          <ns5>LastTIRCarnetNumber>XB76425240</ns5>LastTIRCarnetNumber>
          <ns5:UnitQuantity>1</ns5:UnitQuantity>
        </ns5:TIRCarnetRangeInstance>
      </ns5:TIRCarnetItem>
    </ns3:TIRCarnetReceiptLine>
    <ns3:TIRCarnetReceiptLine>
      <ns2:Id>5115385-2</ns2:Id>
      <ns3:Quantity>1</ns3:Quantity>
      <ns5:TIRCarnetItem>
        <ns5:VoletCount>6</ns5:VoletCount>
        <ns5:CarnetType>ORDINARY</ns5:CarnetType>
        <ns5:AdditionalCarnetProperties>
          <ns5:AdditionalCarnetProperty>
            <ns5:NameCode
              type="http://www.asktirweb.org/model/tir-carnet-1/property-name">USED</ns5:NameCode>
            <ns5:Value>true</ns5:Value>
          </ns5:AdditionalCarnetProperty>
        </ns5:AdditionalCarnetProperties>
        <ns5:TIRCarnetRangeInstance>
          <ns5:FirstTIRCarnetNumber>YX76425239</ns5:FirstTIRCarnetNumber>
          <ns5>LastTIRCarnetNumber>YX76425239</ns5>LastTIRCarnetNumber>
          <ns5:UnitQuantity>1</ns5:UnitQuantity>
        </ns5:TIRCarnetRangeInstance>
      </ns5:TIRCarnetItem>
    </ns3:TIRCarnetReceiptLine>
  </ns3:TIRCarnetReceiptAdvice>
</sendTIRCarnetReceiptAdvice>

```

2.7.2 Printing additional documents

After the return process, AskTIR^{web} can generate a Return Note that can be printed by the user. This document is in many cases not enough for the Association which has the need to print other additional documents.

It is possible for the Accounting system to generate such documents and to let the user access them through AskTIR^{web}, by calling the method `getTIRCarnetReceiptAdvice-AdditionalDocuments` with a `tirCarnetReceiptAdviceId` parameter, which is the id of the return event.

```

<getTIRCarnetReceiptAdviceAdditionalDocuments
  xmlns="http://www.asktirweb.org/services/TIRAccountingService-1"
  xmlns:ns10="http://www.asktirweb.org/model/haulier-1" xmlns:ns11="http://rts.iru.org/model/carnet-1"
  xmlns:ns12="http://rts.iru.org/model/termination-1" xmlns:ns13="http://www.asktirweb.org/model/contact-1"
  xmlns:ns2="http://www.asktirweb.org/model/common-1" xmlns:ns3="http://www.asktirweb.org/model/carnet-movement-1"
  xmlns:ns4="http://www.iru.org/model/tir-actor-1" xmlns:ns5="http://www.asktirweb.org/model/tir-carnet-1"
  xmlns:ns6="http://www.asktirweb.org/model/accounting-1" xmlns:ns7="http://www.asktirweb.org/model/invoice-1"
  xmlns:ns8="http://www.asktirweb.org/model/accounting-item-1"
  xmlns:ns9="http://www.asktirweb.org/model/carnet-order-1">
  <tirCarnetReceiptAdviceId>1234567</tirCarnetReceiptAdviceId>
</getTIRCarnetReceiptAdviceAdditionalDocuments>

```

The Accounting system will return a list of documents (of `DocumentType` type in `http://`

www.asktirweb.org/model/common-1 namespace as defined in 7.1.1 on page 59), whose details are:

- Reference: a textual reference to the document.
- either Location which a URL that will be opened through AskTIR^{web}, or Content that will be streamed directly.

```
<getTIRCarnetReceiptAdviceAdditionalDocumentsResponse
  xmlns="http://www.asktirweb.org/services/TIRAccountingService-1"
  xmlns:ns2="http://www.asktirweb.org/model/common-1" xmlns:ns3="http://www.asktirweb.org/model/carnet-movement-1"
  xmlns:ns4="http://www.iru.org/model/tir-actor-1" xmlns:ns5="http://www.asktirweb.org/model/tir-carnet-1"
  xmlns:ns6="http://www.asktirweb.org/model/accounting-1" xmlns:ns7="http://www.asktirweb.org/model/invoice-1"
  xmlns:ns8="http://www.asktirweb.org/model/accounting-item-1"
  xmlns:ns9="http://www.asktirweb.org/model/carnet-order-1" xmlns:ns10="http://www.asktirweb.org/model/haulier-1"
  xmlns:ns11="http://rts.iru.org/model/carnet-1" xmlns:ns12="http://rts.iru.org/model/termination-1"
  xmlns:ns13="http://www.asktirweb.org/model/contact-1">
  <document>
    <ns2:Location>http://www.google.ch</ns2:Location>
  </document>
  <document>
    <ns2:Location>http://www.bing.ch</ns2:Location>
  </document>
  <document>
    <ns2:Reference type="text" date="2015-05-05T13:45:01.703Z">test.txt</ns2:Reference>
    <ns2:Content mimetype="text/plain">dGVzdHRlc3R0ZXN0dGVzdHRlc3R0ZXN0dGVzdHRlc3R0ZXN0</ns2:Content>
  </document>
</getTIRCarnetReceiptAdviceAdditionalDocumentsResponse>
```

2.7.3 Notification of changes after return of TIR Carnets

If carnets properties which are set during the return of TIR Carnets are modified afterwards (in particular if a carnet was used or not), AskTIR^{web} can notify the external system regarding the change. The details of the `tirCarnetDespatchAdviceChange` parameter (of `TIRCarnetReceiptAdviceChangeType` type in `http://www.asktirweb.org/model/tir-carnet-movement-1` namespace, as defined in 7.1.10 on page 70) details contain:

- Id: the Id of the change event.
- IssueDate: date of change for the carnet.
- DespatchParty: the Haulier to whom the carnet was issued.
- TIRCarnetReceiptLineChange: the details of each line of the receipt advice change. It contains:
 - Id: the identifier of this line (made from the Id and the line number).
 - Quantity: the quantity being received.
 - TIRCarnetItemwith its VoletCount (4, 6, 14, 20), CarnetType (ORDINARY, PILOT, TRANSIT), AdditionalCarnetProperties, and the range (FirstTIRCarnetNumber, LastTIRCarnetNumber, UnitQuantity (which should be the same as the Quantity).

```
<ns3:notifyTIRCarnetReceiptAdviceChange
  xmlns="http://www.asktirweb.org/model/haulier-1"
  xmlns:ns2="http://www.asktirweb.org/model/common-1"
  xmlns:ns3="http://www.asktirweb.org/services/TIRAccountingService-1"
  xmlns:ns4="http://www.iru.org/model/tir-actor-1"
  xmlns:ns5="http://www.asktirweb.org/model/invoice-1"
  xmlns:ns6="http://www.asktirweb.org/model/tir-carnet-1"
  xmlns:ns7="http://www.asktirweb.org/model/accounting-item-1"
```

```

xmlns:ns8="http://www.asktirweb.org/model/carnet-movement-1"
xmlns:ns9="http://www.asktirweb.org/model/accounting-1"
xmlns:ns10="http://www.asktirweb.org/model/carnet-order-1">
  <ns8:TIRCarnetReceiptAdviceChange>
    <ns2:Id>7773532</ns2:Id>
    <ns8:IssueDate>2016-09-12T16:01:52.600+03:00</ns8:IssueDate>
    <ns8:Reference type="http://www.asktirweb.org/logistics/receipt" date="2016-09-09T11:29:51.680+03:00">7770391</ns8:Reference>
    <ns8:Reference type="http://www.asktirweb.org/control" date="2016-09-12T15:59:49.247+03:00">7773531</ns8:Reference>
    <ns8:DespatchParty>
      <ns4:Haulier id="RUS/011/99999" name="Test Haulier"/>
    </ns8:DespatchParty>
    <ns8:TIRCarnetReceiptLineChange>
      <ns2:Id>7773532-1</ns2:Id>
      <ns8:Quantity>1</ns8:Quantity>
      <ns6:TIRCarnetItem>
        <ns6:VoletCount>4</ns6:VoletCount>
        <ns6:CarnetType>ORDINARY</ns6:CarnetType>
        <ns6:AdditionalCarnetProperties>
          <ns6:AdditionalCarnetProperty>
            <ns6:NameCode type="http://www.asktirweb.org/model/tir-carnet-1/property-name">USED</ns6:NameCode>
            <ns6:Value>true</ns6:Value>
          </ns6:AdditionalCarnetProperty>
        </ns6:AdditionalCarnetProperties>
        <ns6:TIRCarnetRangeInstance>
          <ns6:FirstTIRCarnetNumber>XN80394906</ns6:FirstTIRCarnetNumber>
          <ns6>LastTIRCarnetNumber>XN80394906</ns6>LastTIRCarnetNumber>
          <ns6:UnitQuantity>1</ns6:UnitQuantity>
        </ns6:TIRCarnetRangeInstance>
      </ns6:TIRCarnetItem>
    </ns8:TIRCarnetReceiptLineChange>
  </ns8:TIRCarnetReceiptAdviceChange>
</ns3:notifyTIRCarnetReceiptAdviceChange>

```

2.8 Deposit orders

2.8.1 Create a deposit order

AskTIR^{web} can call an external web service in order to create a request for the deposit by the Haulier. It calls the `createDepositOrder` method to indicate to the Association's accounting system that a deposit has been ordered and that it must generate a the corresponding bill.

The details of the `order` parameter (of `OrderType` type in `http://www.asktirweb.org/model/deposit-order-1` namespace, as defined in 7.1.8 on page 68) details contain:

- **Id**: an identifier of the deposit order, assigned by AskTIR^{web}.
- **IssueDate**: the date and time when the request for the deposit order has been issued.
- **Note**: an optional list of notes.
- **CustomerParty**: a reference to the Haulier. This item must contain a Haulier with its Id.
- **SupplierParty**: a reference to the Association. This item must contain details of the Association that will create the deposit payment request, with its Id.
- **OrderLine**: the ordered deposit lines, composed of:
 - **Id**: the identifier of this line (made from the Id and the line number).
 - **Quantity**: the quantity of requested items.
 - **Item**: the ordered deposit description, which has the following elements:
 - * **StandardItemIdentificationID**: a code that identifies the reason of request for deposit.

- * SubLineItem: a complementary, optional, information about the concerned TIR Carnets. Those pieces of information are described in TIR-CarnetItem : VoletCount (4, 6, 14, 20), CarnetType (ORDINARY, PILOT, TRANSIT), and optionally, the range (FirstTIRCarnetNumber, LastTIRCarnetNumber, UnitQuantity (which should be the same as the Quantity).

```
<tir:createDepositOrder
  xmlns:tir="http://www.asktirweb.org/services/TIRAccountingService-1"
  xmlns:dep="http://www.asktirweb.org/model/deposit-order-1"
  xmlns:tir1="http://www.iru.org/model/tir-actor-1"
  xmlns:com="http://www.asktirweb.org/model/common-1"
  xmlns:tir2="http://www.asktirweb.org/model/tir-carnet-1">
  <dep:Order>
    <dep:ID>13</dep:ID>
    <dep:IssueDate>2017-02-17T10:04:52Z</dep:IssueDate>
    <dep:CustomerParty>
      <tir1:Haulier id="RUS/053/12523" />
    </dep:CustomerParty>
    <dep:SupplierParty>
      <tir1:Association id="53" />
    </dep:SupplierParty>
    <dep:OrderLine>
      <dep:ID>1</dep:ID>
      <dep:Quantity>1</dep:Quantity>
      <dep:Item>
        <dep:StandardItemIdentificationID>lost</dep:StandardItemIdentificationID>
        <dep:SubLineItem>
          <dep:TIRCarnetItem>
            <tir2:VoletCount>14</tir2:VoletCount>
            <tir2:CarnetType>ORDINARY</tir2:CarnetType>
            <tir2:TIRCarnetRangeInstance>
              <tir2:FirstTIRCarnetNumber>XK91366807</tir2:FirstTIRCarnetNumber>
              <tir2:LastTIRCarnetNumber>XK91366807</tir2:LastTIRCarnetNumber>
              <tir2:UnitQuantity>1</tir2:UnitQuantity>
            </tir2:TIRCarnetRangeInstance>
          </dep:TIRCarnetItem>
        </dep:SubLineItem>
      </dep:Item>
    </dep:OrderLine>
  </dep:Order>
</tir:createDepositOrder>
```

The Association's accounting system will create the request for the deposit and return the information (of OrderSimpleResponseType type in <http://www.asktirweb.org/model/deposit-order-1> namespace, as defined in 7.1.8 on page 68), whose details are:

- Id: the identifier of the deposit order, assigned by AskTIR^{web}.
- SalesOrderId: an identifier of the request for the deposit order, assigned by the Association's accounting system.
- IssueDate: the date and time assigned by the Association's accounting system when the request for the deposit order was issued.
- Note: an optional list of notes.
- AcceptedIndicator: indicates whether the deposit order is accepted (true) or rejected (false).
- RejectionNotes: the reason for rejection if the order was not accepted (optional).
- CustomerParty: a reference to the Haulier. This item must contain a Haulier with its Id.
- SupplierParty: a reference to the Association. This item must contain details of the Association that will create the deposit payment request, with its Id.

```

<tir:createDepositOrderResponse xmlns:tir="http://www.asktirweb.org/services/TIRAccountingService-1"
  xmlns:dep="http://www.asktirweb.org/model/deposit-order-1"
  xmlns:tir1="http://www.iru.org/model/tir-actor-1"
  xmlns:com="http://www.asktirweb.org/model/common-1">
  <tir:depositOrderResponse>
    <dep:ID>13</dep:ID>
    <dep:SalesOrderID>111</dep:SalesOrderID>
    <dep:IssueDate>2017-02-17T10:05:52Z</dep:IssueDate>
    <dep:AcceptedIndicator>true</dep:AcceptedIndicator>
    <dep:CustomerParty>
      <tir1:Haulier id="RUS/053/12523" />
    </dep:CustomerParty>
    <dep:SupplierParty>
      <tir1:Association id="53" />
    </dep:SupplierParty>
  </tir:depositOrderResponse>
</tir:createDepositOrderResponse>

```

2.8.2 Search a list of deposit orders

AskTIR^{web} can display the list of existing deposit orders. The displayed data comes from the response of the method `searchDepositOrders`.

This method takes five optional arguments (defined in <http://www.asktirweb.org/services/TIRAccountingService-1> namespace, as defined in 7.1.8 on page 68) whose are:

- `customerParty`: a reference to the Haulier. If present, this item must contain a Haulier with it's Id.
- `orderResponseCodes`: a list of status code. The list of values are documented in the `OrderResponseCodeType` type in <http://www.asktirweb.org/model/deposit-order-1> namespace.
- `paymentMeansInstructionIDs`: a list of identifiers for the payment instruction. The list of values are documented in the `PaymentMeansInstructionIDType` type in <http://www.asktirweb.org/model/deposit-order-1> namespace; additionally, one must use a null value in the list to get unpaid orders.
- `standardItemIdentificationIDs`: a list of codes identifying the reasons of deposits.
- `subLineItemTIRCarnetItems`: a list of `TIRCarnetRangeInstance` that describe the TIR Carnets. The criteria include `VoletCount` (4, 6, 14, 20), `CarnetType` (ORDINARY, PILOT, TRANSIT), and the range `FirstTIRCarnetNumber` and `LastTIRCarnetNumber`.

```

<tir:searchDepositOrder
  xmlns:tir="http://www.asktirweb.org/services/TIRAccountingService-1"
  xmlns:dep="http://www.asktirweb.org/model/deposit-order-1"
  xmlns:tir1="http://www.iru.org/model/tir-actor-1"
  xmlns:com="http://www.asktirweb.org/model/common-1"
  xmlns:tir2="http://www.asktirweb.org/model/tir-carnet-1">
  <dep:CustomerParty>
    <tir1:Haulier id="RUS/053/12523"/>
  </dep:CustomerParty>
  <tir:orderResponseCodes>
    <tir:OrderResponseCode type="http://www.asktirweb.org/model/deposit-order-1/order-response-code">http://www.asktirweb.org/model/deposit-order-1/order-response-code#cancelled</tir:OrderResponseCode>
    <tir:OrderResponseCode type="http://www.asktirweb.org/model/deposit-order-1/order-response-code">http://www.asktirweb.org/model/deposit-order-1/order-response-code#accepted</tir:OrderResponseCode>
  </tir:orderResponseCodes>
  <tir:paymentMeansInstructionIDs>
    <tir:PaymentMeansInstructionID>http://www.iru.org/model/deposit-order-1/payment-means-instruction-id#settled</tir:PaymentMeansInstructionID>
  </tir:paymentMeansInstructionIDs>
  <tir:standardItemIdentificationIDs>

```

```

<tir:StandardItemIdentificationID>lost</tir:StandardItemIdentificationID>
<tir:StandardItemIdentificationID>guarantee_deposit_to_get_carnets</tir:StandardItemIdentificationID>
</tir:standardItemIdentificationIDs>

<tir:subLineItemTIRCarnetItems>
  <tir2:VoletCount>14</tir2:VoletCount>
  <tir2:CarnetType>ORDINARY</tir2:CarnetType>
</tir:subLineItemTIRCarnetItems>

<tir:subLineItemTIRCarnetItems>
  <tir2:TIRCarnetRangeInstance>
    <tir2:FirstTIRCarnetNumber>XK91366807</tir2:FirstTIRCarnetNumber>
    <tir2>LastTIRCarnetNumber>XK91366807</tir2>LastTIRCarnetNumber>
  </tir2:TIRCarnetRangeInstance>
</tir:subLineItemTIRCarnetItems>

</tir:searchDepositOrder>

```

The Accounting system will return the list of Order (of OrderResponseType type in <http://www.asktirweb.org/model/deposit-order-1> namespace, as defined in 7.1.8 on page 68) that correspond to the given criteria. The returned data contains the following details :

- Id: the identifier of the deposit order, assigned by AskTIR^{web}.
- SalesOrderId: the identifier of the request for the deposit order, assigned by the Association's accounting system.
- IssueDate: the date and time assigned by the Association's accounting system when the request for the deposit order was issued.
- Note: an optional list of notes.
- OrderResponseCode: the status of the order. The list of values are documented in the OrderResponseCodeType type in <http://www.asktirweb.org/model/deposit-order-1> namespace.
 - <http://www.asktirweb.org/model/deposit-order-1/order-response-code#accepted> if the order has been accepted during the creation process.
 - <http://www.asktirweb.org/model/deposit-order-1/order-response-code#cancelled> if the order has been accepted during the creation process and then cancelled later.
 - <http://www.asktirweb.org/model/deposit-order-1/order-response-code#rejected> if the order has been rejected directly during the creation process. This status is optional and may not be used if failed creations are not stored.
- CustomerParty: a reference to the Haulier. This item must contain a Haulier with its Id.
- SupplierParty: a reference to the Association. This item must contain details of the Association that will create the deposit payment request, with its Id.
- PaymentMeans: the optional element InstructionID contains the identifier for the payment instruction. The list of values are documented in the PaymentMeans-InstructionIDType type in <http://www.asktirweb.org/model/deposit-order-1> namespace.
- OrderLine: the ordered deposit lines, composed of:

- Id: the identifier of this line (made from the Id and the line number).
- Quantity: the quantity of issued items.
- Item: the ordered deposit description, which has the following elements:
 - * StandardItemIdentificationID: a code that identifies the reason of request for deposit.
 - * SubLineItem: a complementary, optional, information about the concerned TIR Carnets. Those pieces of information are described in TIR-CarnetItem : VoletCount (4, 6, 14, 20), CarnetType (ORDINARY, PILOT, TRANSIT), and optionally, the range (FirstTIRCarnetNumber, LastTIRCarnetNumber, UnitQuantity (which should be the same as the Quantity)).

```

<tir:searchDepositOrderResponse
  xmlns:tir="http://www.asktirweb.org/services/TIRAccountingService-1"
  xmlns:dep="http://www.asktirweb.org/model/deposit-order-1"
  xmlns:tir1="http://www.iru.org/model/tir-actor-1"
  xmlns:com="http://www.asktirweb.org/model/common-1"
  xmlns:tir2="http://www.asktirweb.org/model/tir-carnet-1">
  <tir:orders>
    <tir:Order>
      <dep:ID>13</dep:ID>
      <dep:SalesOrderID>111</dep:SalesOrderID>
      <dep:IssueDate>2017-02-17T10:04:52Z</dep:IssueDate>
      <dep:OrderResponseCode type="http://www.asktirweb.org/model/deposit-order-1/order-response-code">http://www.asktirweb.org/model/deposit-order-1/order-response-code#accepted</dep:OrderResponseCode>
      <dep:CustomerParty>
        <tir1:Haulier id="RUS/053/12523" />
      </dep:CustomerParty>
      <dep:SupplierParty>
        <tir1:Association id="53" />
      </dep:SupplierParty>
      <dep:PaymentMeans>
        <dep:InstructionID>http://www.iru.org/model/deposit-order-1/payment-means-instruction-id#settled</dep:InstructionID>
      </dep:PaymentMeans>
      <dep:OrderLine>
        <dep:ID>1</dep:ID>
        <dep:SalesOrderID>1</dep:SalesOrderID>
        <dep:Quantity>1</dep:Quantity>
        <dep:Item>
          <dep:StandardItemIdentificationID>lost</dep:StandardItemIdentificationID>
          <dep:SubLineItem>
            <dep:TIRCarnetItem>
              <tir2:VoletCount>14</tir2:VoletCount>
              <tir2:CarnetType>ORDINARY</tir2:CarnetType>
              <tir2:TIRCarnetRangeInstance>
                <tir2:FirstTIRCarnetNumber>XK91366807</tir2:FirstTIRCarnetNumber>
                <tir2>LastTIRCarnetNumber>XK91366807</tir2>LastTIRCarnetNumber>
                <tir2:UnitQuantity>1</tir2:UnitQuantity>
              </tir2:TIRCarnetRangeInstance>
            </dep:TIRCarnetItem>
          </dep:SubLineItem>
        </dep:Item>
      </dep:OrderLine>
    </tir:Order>

    <tir:Order>
      <dep:ID>52</dep:ID>
      <dep:SalesOrderID>13</dep:SalesOrderID>
      <dep:IssueDate>2017-02-18T10:04:52Z</dep:IssueDate>
      <dep:OrderResponseCode type="http://www.asktirweb.org/model/deposit-order-1/order-response-code">http://www.asktirweb.org/model/deposit-order-1/order-response-code#cancelled</dep:OrderResponseCode>
      <dep:CustomerParty>
        <tir1:Haulier id="RUS/053/2334" />
      </dep:CustomerParty>
      <dep:SupplierParty>
        <tir1:Association id="53" />
      </dep:SupplierParty>
      <dep:OrderLine>
        <dep:ID>1</dep:ID>
        <dep:SalesOrderID>1</dep:SalesOrderID>
        <dep:Quantity>1</dep:Quantity>
        <dep:Item>
          <dep:StandardItemIdentificationID>guarantee_deposit_to_get_carnets</dep:StandardItemIdentificationID>
        </dep:Item>
      </dep:OrderLine>
    </tir:Order>
  </tir:orders>
</tir:searchDepositOrderResponse>

```

3 TIR Haulier exposed data

The methods described here are defined in 6.2 on page 49.

3.1 Haulier details

The method `getHaulier` allows to get the details about a haulier. It takes a single argument `id` (of `HaulierIdType` type defined in <http://www.iru.org/model/tir-actor-1> in 7.2.1 on page 72), which is the unique identifier of the Haulier. The method will return a `Haulier` (of `TIRHaulierType` type in <http://www.asktirweb.org/model/haulier-1> namespace), as defined in 7.1.4 on page 64, which is exactly the same information sent through `sendHaulier` (in 2.1 on page 7).

3.2 Creating a Haulier

The method `createHaulier` allows to create a new haulier in AskTIR^{web}. It takes three arguments:

- `haulier`: the haulier details (of `GeneralInformationType` type defined in <http://www.asktirweb.org/model/haulier-1> in 7.1.4 on page 64) including `Id`, `OrganisationName`, `AdditionalCodes`, `OtherOrganisationName`, `CompanyTypeCode`, `NationalityType`, `OwnershipTypeCode`, `MembershipTypeCode` and `OfficialDocumentReferences` (see above in 2.1).
- `legalLocation`: the details of the legally registered address, with the associated communications means (email, telephone, fax).
- `OtherLocations`: an optional, unbounded list of other addresses' details, with their associated communications means (email, telephone, fax).
- `applicationDate`: the date when the haulier became applicant to the TIR system.

It will return the timestamp when the information was successfully saved in AskTIR^{web}, which must be used in subsequent calls to update the haulier.

3.3 Updating an existing Haulier

The method `setHaulierGeneralInformation` allows to update an existing haulier. It takes three arguments (the first two are the same as for `createHaulier`, see above in 3.2):

- `haulier`: the haulier details.
- `legalLocation`: the details of the legally registered address, with the associated communications means (email, telephone, fax).

- `OtherLocations`: an optional, unbounded list of other addresses' details, with their associated communications means (email, telephone, fax).
- `lastModificationDate`: the timestamp of the last update or creation of the haulier.

Similarly to `createHaulier`, it will return the timestamp when the information was successfully saved in AskTIR^{web}, which must be used in subsequent calls to the same method.

3.4 Creating a Vehicle

The method `createVehicle` allows to create a new vehicle for a designated haulier. It takes two arguments:

- `haulierId`: the unique identifier of the haulier.
- `vehicle`: the details of the vehicle (of `VehicleType` type defined in <http://www.asktirweb.org/model/vehicle-1> in 7.1.11 on page 71). It may contain the type (`Type`, as a code), the make (`Make`), the model (`Model`), the date of manufacture (`ManufactureDate`), the vehicle identification number (`VehicleIdentificationNumber`), an unbounded list of certificates (`Certificates`) and the registration number (`RegistrationNumber`), as well as the contractual relationship (`ContractualRelationship`) that the haulier has with the vehicle. It can also include optional element (`InQuota`) to add the vehicle to the quota calculation and an element (`CarnetAllowance`) to set the carnet allowance (this element overrides the default association's configuration for carnet allowance)

It returns the unique identifier of the vehicle (`id`) and the timestamp (`lastModificationDate`) when the information was successfully saved in AskTIR^{web}, which must be used in subsequent calls to update or delete the vehicle.

3.5 Updating an existing Vehicle

The method `updateVehicle` allows to update an existing vehicle of a designated haulier. It takes four arguments (the last two are the same as in `createVehicle`, see above in 3.4):

- `id`: unique identifier of the vehicle.
- `lastModificationDate`: the timestamp of the last update or creation of the vehicle.
- `haulierId`: the unique identifier of the haulier.
- `vehicle`: the details of the vehicle.

It returns the unique identifier of the vehicle (`id`) and the timestamp (`lastModificationDate`) when the information was successfully saved in AskTIR^{web}, which must be used in subsequent calls to update or delete the vehicle.

3.6 Deleting a vehicle

The method `deleteVehicle` allows to delete a vehicle of a designated haulier. It takes three arguments (same as the first three in `updateVehicle`, see above in 3.5):

- `id`: unique identifier of the vehicle.
- `lastModificationDate`: the timestamp of the last update or creation of the vehicle.
- `haulierId`: the unique identifier of the haulier.

There is no return value for this method.

3.7 Vehicle details

The method `getVehicle` allows to receive the vehicle details. It takes two arguments:

- `haulierId`: of `HaulierIdType` type defined in <http://www.iru.org/model/tir-actor-1> in 7.2.1 on page 72, which is the unique identifier of the Haulier.
- `vehicleId`: the unique identifier of the vehicle.

It returns the unique identifier of the vehicle (`id`), the timestamp (`lastModificationDate`) when the vehicle information was successfully saved in AskTIR^{web}, which must be used in subsequent calls to update or delete the vehicle and the vehicle data (`VehicleType`).

- `id`: the unique identifier of the vehicle.
- `haulierId`: the unique identifier of the Haulier of type `HaulierIdType`.
- `lastModificationDate`: the timestamp when the information was successfully saved in AskTIR^{web}.
- `vehicle`: vehicle data defined in <http://www.asktirweb.org/model/vehicle-1> in 7.1.11 on page 71

3.8 Search vehicles

The method `searchVehicles` allows to search for vehicles among the ones of a given Haulier. It takes two arguments:

- `haulierId`: the unique identifier of the haulier.
- `filter`: the optional, different filters to apply. It contains:
 - `make`: the make that a vehicle must have to match the filter.

- `vehicleIdentificationNumberPart`: the Vehicle Identification Number (VIN) that a vehicle must have (at least partially) to match the filter.
- `registrationNumberPart`: the registration number that a vehicle must have (at least partially) to match the filter.

It returns the list of vehicles, which have with the following elements (all optional unless marked mandatory):

- `id`: unique identifier of the vehicle.
- `lastModificationDate`: the timestamp of the last update or creation of the vehicle.
- `Type`: the type of the vehicle, as a code (mandatory).
- `Make`: the make of the vehicle.
- `ManufactureDate`: the manufacture date of the vehicle.
- `VehicleIdentificationNumber`: the vehicle identification number (VIN) of the vehicle.
- `RegistrationNumber`: the registration number of the vehicle (mandatory).
- `ContractualRelationship`: the contractual relationship of the vehicle (mandatory).
- `InQuota`: the state of the included in quota flag (mandatory). It is `true` if the vehicle has been selected by the user to be used during the quota calculation, `false` otherwise.
- `CarnetAllowance`: the carnet allowance given to the vehicle in order to compute the quota of the Haulier.
- `ComputedCarnetAllowance`: the computed carnet allowance by Association's quota formula.
- `ActiveToday`: the active status of the vehicle for the actual date in the timezone of the association headquarters.
- `Certificates`: the list of certificates associated to the vehicle.

3.9 Search Haulier TIR Carnets

The method `searchTIRCarnets` allows to search among the TIR carnets which have been issued to a Haulier. It takes two arguments:

- `haulierId`: the unique identifier of the haulier.
- `filter`: the optional, different filters to apply. It contains:

- `status` (ISSUED, RETURNED, STOPPED): the status that a carnet must have to match the filter.
- `lastEventPeriod`: the period when the last event of a carnet (issuance, return or declaration) must have occurred to match the filter.

It returns the list of carnet with the following elements :

- `TIRCarnetNumber`: the carnet number.
- `VoletCount` (4, 6, 14, 20): the volet count.
- `CarnetType` (ORDINARY, PILOT, TRANSIT): the type of the carnet.
- `Status` (ISSUED, RETURNED, STOPPED): the status of the carnet.
- `IssuanceDate`: the issuance date of the carnet.
- `ExpiryDate`: the expiry date of the carnet.
- `ReturnLimitDate`: the limit date to return the carnet. This attribute is computed based on the expiry date. This is optional and will be present only if the status of the Carnet is ISSUED.
- `ReturnDate`: the return date of the carnet. It is optional, and will be present only if the carnet has been returned.
- `AutomaticTemporarySuspensionDate`: the date when the Haulier will be suspended if the carnet is not returned. It is optional, and will be present if the overdue management and the automatic suspension functionalities are enabled and the carnet has the status ISSUED.

It returns also the following attributes :

- `lastEventDate`: the date of the last event.
- `tirOperationTerminationCount`: the quantity of TIR operation termination data (SafeTIR) received from the customs authorities.

3.10 Get Haulier contacts

The method `getContacts` allows to get active Haulier employee's contacts. It takes one argument:

- `haulierId`: the unique identifier of the Haulier.

It returns the list of active (with currently valid job positions) Haulier contacts with the following elements:

- `Name`: Contact details (including first name, middle name and last name).

- **OfficialDocumentReferences:** References to contact's official documents, like passport.
- **RoleTypeCode:** Contact's job position.
- **RelationshipPeriod:** Period of contact's job position.
- **AuthorisationToCollectDocumentReference:** Reference to current authorization document (and its validity period) for contact to collect carnets (optional).
- **AuthorisationToOrderDocumentReference:** Reference to current authorization document (and its validity period) for contact to order carnets (optional).

It returns also the following attribute :

- **ownershipIndicator:** indicates whether this contact is registered as owner of the Haulier (optional).

3.11 Other data

Other methods have been tentatively defined but are not implemented, and should not be called. They will be documented in due time.

4 TIR Haulier portal administrative data

The methods described here are defined in 6.3 on page 56.

4.1 Modified contacts details

The method `getContacts` allows to get list of contacts modified during the period. It takes a `PeriodType` as an argument.

- **PeriodType:** start and end date of the period.

It returns a list of contacts whose details were changed during the given period.

- **Id:** contact's unique technical identifier (of type `IdType`).
- **Contact:** contact details, including `Name` and `OfficialDocumentReferences`.
- **Relationships:** List of haulier's contractual `Relationship` (composed of `HaulierId`, `RoleTypeCode`, `RelationshipPeriod`, `AuthorisationToCollectDocumentReference` and `AuthorisationToOrderDocumentReference`) with the contact (optional).
- **Ownerships:** List of `HaulierId` whose haulier is owned by the contact (optional).

It returns also the following attribute :

- `modificationDate`: modification date of the contact change.

For the case where one or more contacts have been deleted during the requested period, the method also returns the list of deleted contact's identifiers (of type `IdType`).

5 Security

5.1 Network

AskTIR^{web} is deployed within the IRU network, and is accessible over any Internet connection (at the following address: <https://www.asktirweb.org/>).

5.1.1 Connectivity

Associations' systems may also be directly addressable over the Internet, or to the contrary only accessible using a Virtual Private Network. This will not impact the architecture which supports both connectivity models.

5.1.2 HTTPS

Independently of the network connectivity, it is important that no other party can inspect the traffic between AskTIR^{web} servers and the associations' systems. Therefore all the webservice traffic will be sent over HTTPS instead of HTTP.

5.2 WS-Security

WS-Security is a set of interoperable standards defined by OASIS Web Services Security (WSS) Technical Committee (https://www.oasis-open.org/committees/tc_home.php?wg_abbrev=wss). We will use mostly the Core Specification (version 1.1 at <http://www.oasis-open.org/committees/download.php/16790/wss-v1.1-spec-os-SOAPMessageSecurity.pdf>) and the Username Token Profile (version 1.1 at <http://www.oasis-open.org/committees/download.php/16782/wss-v1.1-spec-os-UsernameTokenProfile.pdf>).

5.3 Client role

5.3.1 Application authentication

AskTIR^{web} will use a single service account to authenticate with the association's information system using a username, a nonce, a timestamp and a password digest as

described in the section 3.1 of above mentioned document describe the Username Token profile.

The SOAP header will contain a similar element in the Security part:

```
<wsse:UsernameToken wsu:Id="UsernameToken-1">
  <wsse:Username>asktirweb_service_account_in_assoc_ws</wsse:Username>
  <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-2004
01-wss-username-token-profile-1.0#PasswordDigest">ZjMwk30TVmZDkxYwo=</w
sse:Password>
  <wsse:Nonce EncodingType="http://docs.oasis-open.org/wss/2004/01/oasis
-200401-wss-soap-message-security-1.0#Base64Binary">bm9uY2UK</wsse:Nonc
e>
  <wsu:Created>2013-03-27T17:52:42Z</wsu:Created>
</wsse:UsernameToken>
```

5.3.2 User forwarding

AskTIR^{web} will also forward the username inside another element (`SecurityTokenReference`) in the Security part of the SOAP header (it will be the user who did the operation that caused the application to call the association's webservice, whether the call is synchronous or not).

The `SecurityTokenReference` will contain a single `Embedded` element whose `ValueType` will always be `http://www.asktirweb.org/security/authentication/username` and the `Id` will be the username.

An example is given below:

```
<wsse:SecurityTokenReference>
  <wsse:Embedded Id="username" ValueType="http://www.asktirweb.org/security/
authentication/username" />
</wsse:SecurityTokenReference>
```

5.4 Server role

When AskTIR^{web} will expose data or services to other applications, the same security scheme will be used to authenticate this third-party:

- a single service account will be used (it will be granted the minimal amount of rights needed), also with a nonce, a timestamp and a password digest;
- other elements may be added inside the `Security` element, but those will not be used by AskTIRWeb.

6 WebService Definitions

6.1 TIR Accounting

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<definitions xmlns="http://schemas.xmlsoap.org/wsdl/" xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap12/"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
  xmlns:wsa10="http://www.w3.org/2005/08/addressing"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  targetNamespace="http://www.asktirweb.org/services/TIRAccountingService-1"
  xmlns:tns="http://www.asktirweb.org/services/TIRAccountingService-1"
  xmlns:com="http://www.asktirweb.org/model/common-1"
  xmlns:mov="http://www.asktirweb.org/model/carnet-movement-1"
  xmlns:inv="http://www.asktirweb.org/model/invoice-1"
  xmlns:ord="http://www.asktirweb.org/model/carnet-order-1"
  xmlns:acc="http://www.asktirweb.org/model/accounting-1"
  xmlns:hau="http://www.asktirweb.org/model/haulier-1"
  xmlns:dor="http://www.asktirweb.org/model/deposit-order-1"
  xmlns:car="http://www.asktirweb.org/model/tir-carnet-1">

  <wsp:Policy wsu:Id="TIRAccountingServiceUsingAddressingPolicy">
    <wsp:ExactlyOne>
      <wsp>All>
        <wsaw:UsingAddressing />
      </wsp>All>
    </wsp:ExactlyOne>
  </wsp:Policy>

  <types>
    <xs:schema targetNamespace="http://www.asktirweb.org/services/TIRAccountingService-1" elementFormDefault="qualified">
      <xs:import namespace="http://www.asktirweb.org/model/common-1" schemaLocation="askw-common-1.xsd" />
      <xs:import namespace="http://www.asktirweb.org/model/haulier-1" schemaLocation="askw-haulier-1.xsd" />
      <xs:import namespace="http://www.asktirweb.org/model/accounting-1" schemaLocation="askw-accounting-1.xsd" />
      <xs:import namespace="http://www.asktirweb.org/model/carnet-order-1" schemaLocation="askw-carnet-order-1.xsd" />
      <xs:import namespace="http://www.asktirweb.org/model/invoice-1" schemaLocation="askw-invoice-1.xsd" />
      <xs:import namespace="http://www.asktirweb.org/model/carnet-movement-1" schemaLocation="askw-carnet-movement-1.xsd" />
      <xs:import namespace="http://www.asktirweb.org/model/deposit-order-1" schemaLocation="askw-deposit-order-1.xsd" />
      <xs:import namespace="http://www.asktirweb.org/model/tir-carnet-1" schemaLocation="askw-carnet-1.xsd" />

      <xs:complexType name="ServiceFaultInfoType">
        <xs:sequence>
          <xs:element name="Id" type="xs:string"/>
          <xs:element name="Message" type="xs:string" minOccurs="0"/>
          <xs:element name="RetryIndicator" type="xs:boolean"/>
          <xs:element name="RetryMinDelay" type="xs:duration" minOccurs="0"/>
          <xs:element name="RetryMaxDelay" type="xs:duration" minOccurs="0"/>
        </xs:sequence>
      </xs:complexType>

      <xs:element name="ServiceFaultInfo" type="tns:ServiceFaultInfoType" />

      <xs:element name="sendInvoice">
        <xs:complexType>
          <xs:sequence>
            <xs:element ref="inv:Invoice" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>

      <xs:element name="sendTIRCarnetDespatchAdvice">
        <xs:complexType>
          <xs:sequence>
            <xs:element ref="mov:TIRCarnetDespatchAdvice" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>

      <xs:element name="getTIRCarnetDespatchAdviceAdditionalDocuments">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="tirCarnetDespatchAdviceId" type="com:IdType"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>

      <xs:element name="getTIRCarnetDespatchAdviceAdditionalDocumentsResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="document" type="com:DocumentType" minOccurs="0" maxOccurs="unbounded"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>

      <xs:element name="sendTIRCarnetReceiptAdvice">
        <xs:complexType>
          <xs:sequence>
            <xs:element ref="mov:TIRCarnetReceiptAdvice"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>

      <xs:element name="notifyTIRCarnetReceiptAdviceChange">
        <xs:complexType>
          <xs:sequence>
            <xs:element ref="mov:TIRCarnetReceiptAdviceChange"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>

      <xs:element name="getTIRCarnetReceiptAdviceAdditionalDocuments">
        <xs:complexType>
          <xs:sequence>

```

```

    <xs:element name="tirCarnetReceiptAdviceId" type="com:IdType"/>
  </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="getTIRCarnetReceiptAdviceAdditionalDocumentsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="document" type="com:DocumentType" minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="sendHaulier">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="haulier" type="hau:TIRHaulierType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="getUsableHaulierAccountsForOrder">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="tirCarnetOrder" type="ord:TIRCarnetOrderType" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="getUsableHaulierAccountsForOrderResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="haulierAccount" type="acc:AccountType" minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="authorizeTIRCarnetIssuanceTransaction">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="tirCarnetDespatchAdvice" type="mov:TIRCarnetDespatchAdviceType">
        <xs:annotation>
          <xs:documentation>Id is empty as the despatch has not happened yet</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="haulierAccount" type="acc:AccountType" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="authorizeTIRCarnetIssuanceTransactionResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="transactionEntryReference" type="com:ReferenceType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="captureTIRCarnetIssuanceTransaction">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="transactionEntryReference" type="com:ReferenceType"/>
      <xs:element name="tirCarnetDespatchAdviceId" type="com:IdType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="reverseTIRCarnetIssuanceTransaction">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="transactionEntryReference" type="com:ReferenceType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="authorizeAndCaptureTIRCarnetIssuanceTransaction">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="tirCarnetDespatchAdvice" type="mov:TIRCarnetDespatchAdviceType" />
      <xs:element name="haulierAccount" type="acc:AccountType" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="followonCreditTIRCarnetIssuanceTransaction">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="tirCarnetDespatchAdviceId" type="com:IdType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="createDepositOrder">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="dor:Order"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

<xs:element name="createDepositOrderResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="depositOrderResponse" type="dor:OrderSimpleResponseType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:complexType name="PaymentMeansInstructionIDsType">
  <xs:sequence>
    <xs:element name="PaymentMeansInstructionID" type="com:IdType" maxOccurs="unbounded" nillable="true" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="StandardItemIdentificationIDsType">
  <xs:sequence>
    <xs:element name="StandardItemIdentificationID" type="com:IdType" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="TIRCarnetItemSearchType">
  <xs:sequence>
    <xs:element ref="car:VoletCount" minOccurs="0" />
    <xs:element ref="car:CarnetType" minOccurs="0" />
    <xs:element ref="car:TIRCarnetRangeInstance" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="OrderResponseCodesType">
  <xs:sequence>
    <xs:element name="OrderResponseCode" type="com:CodeType" minOccurs="1" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:element name="searchDepositOrder">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="dor:CustomerParty" minOccurs="0"/>
      <xs:element name="orderResponseCodes" type="tns:OrderResponseCodesType" minOccurs="0" />
      <xs:element name="paymentMeansInstructionIDs" type="tns:PaymentMeansInstructionIDsType" minOccurs="0" />
      <xs:element name="standardItemIdentificationIDs" type="tns:StandardItemIdentificationIDsType" minOccurs="0" />
      <xs:element name="subLineItemTIRCarnetItems" type="tns:TIRCarnetItemSearchType" minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:complexType name="OrdersType">
  <xs:sequence>
    <xs:element name="Order" type="dor:OrderResponseType" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:element name="searchDepositOrderResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="orders" type="tns:OrdersType" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:schema>
</types>

<message name="ServiceException">
  <part name="fault" element="tns:ServiceFaultInfo" />
</message>

<message name="sendInvoice">
  <part name="parameters" element="tns:sendInvoice" />
</message>
<message name="sendInvoiceResponse"/>

<message name="sendTIRCarnetDespatchAdvice">
  <part name="parameters" element="tns:sendTIRCarnetDespatchAdvice" />
</message>
<message name="sendTIRCarnetDespatchAdviceResponse"/>

<message name="getTIRCarnetDespatchAdviceAdditionalDocuments">
  <part name="parameters" element="tns:getTIRCarnetDespatchAdviceAdditionalDocuments" />
</message>
<message name="getTIRCarnetDespatchAdviceAdditionalDocumentsResponse">
  <part name="parameters" element="tns:getTIRCarnetDespatchAdviceAdditionalDocumentsResponse" />
</message>

<message name="sendTIRCarnetReceiptAdvice">
  <part name="parameters" element="tns:sendTIRCarnetReceiptAdvice" />
</message>
<message name="sendTIRCarnetReceiptAdviceResponse"/>

<message name="notifyTIRCarnetReceiptAdviceChange">
  <part name="parameters" element="tns:notifyTIRCarnetReceiptAdviceChange" />
</message>
<message name="notifyTIRCarnetReceiptAdviceChangeResponse"/>

<message name="getTIRCarnetReceiptAdviceAdditionalDocuments">
  <part name="parameters" element="tns:getTIRCarnetReceiptAdviceAdditionalDocuments" />
</message>
<message name="getTIRCarnetReceiptAdviceAdditionalDocumentsResponse">

```

```

<part name="parameters" element="tns:getTIRCarnetReceiptAdviceAdditionalDocumentsResponse" />
</message>

<message name="sendHaulier">
  <part name="parameters" element="tns:sendHaulier" />
</message>
<message name="sendHaulierResponse"/>

<message name="getUsableHaulierAccountsForOrder">
  <part name="parameters" element="tns:getUsableHaulierAccountsForOrder" />
</message>
<message name="getUsableHaulierAccountsForOrderResponse">
  <part name="parameters" element="tns:getUsableHaulierAccountsForOrderResponse" />
</message>

<message name="authorizeTIRCarnetIssuanceTransaction">
  <part name="parameters" element="tns:authorizeTIRCarnetIssuanceTransaction" />
</message>
<message name="authorizeTIRCarnetIssuanceTransactionResponse">
  <part name="parameters" element="tns:authorizeTIRCarnetIssuanceTransactionResponse" />
</message>

<message name="captureTIRCarnetIssuanceTransaction">
  <part name="parameters" element="tns:captureTIRCarnetIssuanceTransaction" />
</message>
<message name="captureTIRCarnetIssuanceTransactionResponse"/>

<message name="reverseTIRCarnetIssuanceTransaction">
  <part name="parameters" element="tns:reverseTIRCarnetIssuanceTransaction" />
</message>
<message name="reverseTIRCarnetIssuanceTransactionResponse"/>

<message name="authorizeAndCaptureTIRCarnetIssuanceTransaction">
  <part name="parameters" element="tns:authorizeAndCaptureTIRCarnetIssuanceTransaction" />
</message>
<message name="authorizeAndCaptureTIRCarnetIssuanceTransactionResponse"/>

<message name="followonCreditTIRCarnetIssuanceTransaction">
  <part name="parameters" element="tns:followonCreditTIRCarnetIssuanceTransaction" />
</message>
<message name="followonCreditTIRCarnetIssuanceTransactionResponse"/>

<message name="createDepositOrder">
  <part name="parameters" element="tns:createDepositOrder" />
</message>
<message name="createDepositOrderResponse">
  <part name="parameters" element="tns:createDepositOrderResponse" />
</message>

<message name="searchDepositOrder">
  <part name="parameters" element="tns:searchDepositOrder" />
</message>
<message name="searchDepositOrderResponse">
  <part name="parameters" element="tns:searchDepositOrderResponse" />
</message>

<portType name="TIRAccountingSEI">
  <documentation>
    Service Endpoint Interface for associations TIR Accounting system.
  </documentation>
  <operation name="sendInvoice">
    <documentation>
      Send the details of an invoice.
    </documentation>
    <input message="tns:sendInvoice" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/sendInvoice"/>
    <output message="tns:sendInvoiceResponse" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/sendInvoiceResponse" />
    <fault message="tns:ServiceException" name="ServiceException" />
  </operation>
  <operation name="sendTIRCarnetDespatchAdvice">
    <documentation>
      Send the details of the TIR carnets sent at the association.
    </documentation>
    <input message="tns:sendTIRCarnetDespatchAdvice" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/sendTIRCarnetDespatchAdvice"/>
    <output message="tns:sendTIRCarnetDespatchAdviceResponse" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/sendTIRCarnetDespatchAdviceResponse" />
    <fault message="tns:ServiceException" name="ServiceException" />
  </operation>
  <operation name="getTIRCarnetDespatchAdviceAdditionalDocuments">
    <documentation>
      Get additional details related to the transfer of carnets or the invoice for the Holder.
    </documentation>
    <input message="tns:getTIRCarnetDespatchAdviceAdditionalDocuments" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/getTIRCarnetDespatchAdviceAdditionalDocuments"/>
    <output message="tns:getTIRCarnetDespatchAdviceAdditionalDocumentsResponse" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/getTIRCarnetDespatchAdviceAdditionalDocumentsResponse" />
    <fault message="tns:ServiceException" name="ServiceException" />
  </operation>
  <operation name="sendTIRCarnetReceiptAdvice">
    <documentation>
      Send the details of the TIR carnets received at the association.
    </documentation>
    <input message="tns:sendTIRCarnetReceiptAdvice" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/sendTIRCarnetReceiptAdvice"/>
    <output message="tns:sendTIRCarnetReceiptAdviceResponse" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/sendTIRCarnetReceiptAdviceResponse" />
    <fault message="tns:ServiceException" name="ServiceException" />
  </operation>

```

```

<operation name="notifyTIRCarnetReceiptAdviceChange">
  <documentation>
    Send changes on the details of the TIR carnets received at the association (in particular the changes related to additional properties).
  </documentation>
  <input message="tns:notifyTIRCarnetReceiptAdviceChange" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/notifyTIRCarnetReceiptAdviceChange"/>
  <output message="tns:notifyTIRCarnetReceiptAdviceChangeResponse" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/notifyTIRCarnetReceiptAdviceChangeResponse" />
  <fault message="tns:ServiceException" name="ServiceException" />
</operation>
<operation name="getTIRCarnetReceiptAdviceAdditionalDocuments">
  <documentation>
    Get additional details related to the acknowledgement of transfer of carnets or the return of carnets by the Holder.
  </documentation>
  <input message="tns:getTIRCarnetReceiptAdviceAdditionalDocuments" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/getTIRCarnetReceiptAdviceAdditionalDocuments"/>
  <output message="tns:getTIRCarnetReceiptAdviceAdditionalDocumentsResponse" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/getTIRCarnetReceiptAdviceAdditionalDocumentsResponse" />
  <fault message="tns:ServiceException" name="ServiceException" />
</operation>
<operation name="sendHaulier">
  <documentation>
    Send the details of a haulier.
  </documentation>
  <input message="tns:sendHaulier" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/sendHaulier"/>
  <output message="tns:sendHaulierResponse" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/sendHaulierResponse" />
  <fault message="tns:ServiceException" name="ServiceException" />
</operation>
<operation name="getUsableHaulierAccountsForOrder">
  <documentation>
    Get the list of accounts of the haulier that can be used for the specified TIR carnet order.
  </documentation>
  <input message="tns:getUsableHaulierAccountsForOrder" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/getUsableHaulierAccountsForOrder"/>
  <output message="tns:getUsableHaulierAccountsForOrderResponse" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/getUsableHaulierAccountsForOrderResponse" />
  <fault message="tns:ServiceException" name="ServiceException" />
</operation>
<operation name="authorizeTIRCarnetIssuanceTransaction">
  <documentation>
    Create authorization of payment for a TIR carnet issuance.
  </documentation>
  <input message="tns:authorizeTIRCarnetIssuanceTransaction" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/authorizeTIRCarnetIssuanceTransaction"/>
  <output message="tns:authorizeTIRCarnetIssuanceTransactionResponse" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/authorizeTIRCarnetIssuanceTransactionResponse" />
  <fault message="tns:ServiceException" name="ServiceException" />
</operation>
<operation name="captureTIRCarnetIssuanceTransaction">
  <documentation>
    Capture the previously authorized payment.
  </documentation>
  <input message="tns:captureTIRCarnetIssuanceTransaction" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/captureTIRCarnetIssuanceTransaction"/>
  <output message="tns:captureTIRCarnetIssuanceTransactionResponse" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/captureTIRCarnetIssuanceTransactionResponse" />
  <fault message="tns:ServiceException" name="ServiceException" />
</operation>
<operation name="reverseTIRCarnetIssuanceTransaction">
  <documentation>
    Reverse (cancel) the previously authorized payment.
  </documentation>
  <input message="tns:reverseTIRCarnetIssuanceTransaction" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/reverseTIRCarnetIssuanceTransaction"/>
  <output message="tns:reverseTIRCarnetIssuanceTransactionResponse" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/reverseTIRCarnetIssuanceTransactionResponse" />
  <fault message="tns:ServiceException" name="ServiceException" />
</operation>
<operation name="authorizeAndCaptureTIRCarnetIssuanceTransaction">
  <documentation>
    Capture directly the payment for a TIR carnet issuance.
  </documentation>
  <input message="tns:authorizeAndCaptureTIRCarnetIssuanceTransaction" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/authorizeAndCaptureTIRCarnetIssuanceTransaction"/>
  <output message="tns:authorizeAndCaptureTIRCarnetIssuanceTransactionResponse" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/authorizeAndCaptureTIRCarnetIssuanceTransactionResponse" />
  <fault message="tns:ServiceException" name="ServiceException" />
</operation>
<operation name="followonCreditTIRCarnetIssuanceTransaction">
  <documentation>
    Credit following the payment of a TIR carnet issuance in case of later cancellation.
  </documentation>
  <input message="tns:followonCreditTIRCarnetIssuanceTransaction" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/followonCreditTIRCarnetIssuanceTransaction"/>
  <output message="tns:followonCreditTIRCarnetIssuanceTransactionResponse" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/followonCreditTIRCarnetIssuanceTransactionResponse" />
  <fault message="tns:ServiceException" name="ServiceException" />
</operation>
<operation name="createDepositOrder">
  <documentation>
    Create an order to create a bill for the customer to get a deposit.
  </documentation>
  <input message="tns:createDepositOrder" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/createDepositOrder"/>
  <output message="tns:createDepositOrderResponse" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/createDepositOrderResponse" />
  <fault message="tns:ServiceException" name="ServiceException" />
</operation>
<operation name="searchDepositOrder">
  <documentation>

```

```

        Search a list deposit order and return their data.
    </documentation>
    <input message="tns:searchDepositOrder" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/searchDepositOrder"/>
    <output message="tns:searchDepositOrderResponse" wsaw:Action="http://www.asktirweb.org/services/TIRAccountingService-1/
        searchDepositOrderResponse" />
    <fault message="tns:ServiceException" name="ServiceException" />
    </operation>

</portType>

<binding name="TIRAccountingServicePortBinding" type="tns:TIRAccountingSEI">
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http" style="document" />
    <operation name="sendInvoice">
        <soap:operation soapAction="http://www.asktirweb.org/services/TIRAccountingService-1/sendInvoice" />
        <input>
            <soap:body use="literal" />
        </input>
        <output>
            <soap:body use="literal" />
        </output>
        <fault name="ServiceException">
            <soap:fault name="ServiceException" use="literal" />
        </fault>
    </operation>
    <operation name="sendTIRCarnetDespatchAdvice">
        <soap:operation soapAction="http://www.asktirweb.org/services/TIRAccountingService-1/sendTIRCarnetDespatchAdvice" />
        <input>
            <soap:body use="literal" />
        </input>
        <output>
            <soap:body use="literal" />
        </output>
        <fault name="ServiceException">
            <soap:fault name="ServiceException" use="literal" />
        </fault>
    </operation>
    <operation name="getTIRCarnetDespatchAdviceAdditionalDocuments">
        <soap:operation soapAction="http://www.asktirweb.org/services/TIRAccountingService-1/getTIRCarnetDespatchAdviceAdditionalDocuments" />
        <input>
            <soap:body use="literal" />
        </input>
        <output>
            <soap:body use="literal" />
        </output>
        <fault name="ServiceException">
            <soap:fault name="ServiceException" use="literal" />
        </fault>
    </operation>
    <operation name="sendTIRCarnetReceiptAdvice">
        <soap:operation soapAction="http://www.asktirweb.org/services/TIRAccountingService-1/sendTIRCarnetReceiptAdvice" />
        <input>
            <soap:body use="literal" />
        </input>
        <output>
            <soap:body use="literal" />
        </output>
        <fault name="ServiceException">
            <soap:fault name="ServiceException" use="literal" />
        </fault>
    </operation>
    <operation name="notifyTIRCarnetReceiptAdviceChange">
        <soap:operation soapAction="http://www.asktirweb.org/services/TIRAccountingService-1/notifyTIRCarnetReceiptAdviceChange" />
        <input>
            <soap:body use="literal" />
        </input>
        <output>
            <soap:body use="literal" />
        </output>
        <fault name="ServiceException">
            <soap:fault name="ServiceException" use="literal" />
        </fault>
    </operation>
    <operation name="getTIRCarnetReceiptAdviceAdditionalDocuments">
        <soap:operation soapAction="http://www.asktirweb.org/services/TIRAccountingService-1/getTIRCarnetReceiptAdviceAdditionalDocuments" />
        <input>
            <soap:body use="literal" />
        </input>
        <output>
            <soap:body use="literal" />
        </output>
        <fault name="ServiceException">
            <soap:fault name="ServiceException" use="literal" />
        </fault>
    </operation>
    <operation name="sendHaulier">
        <soap:operation soapAction="http://www.asktirweb.org/services/TIRAccountingService-1/sendHaulier" />
        <input>
            <soap:body use="literal" />
        </input>
        <output>
            <soap:body use="literal" />
        </output>
        <fault name="ServiceException">
            <soap:fault name="ServiceException" use="literal" />
        </fault>
    </operation>
    <operation name="getUsableHaulierAccountsForOrder">
        <soap:operation soapAction="http://www.asktirweb.org/services/TIRAccountingService-1/getUsableHaulierAccountsForOrder" />

```

```

<input>
  <soap:body use="literal" />
</input>
<output>
  <soap:body use="literal" />
</output>
<fault name="ServiceException">
  <soap:fault name="ServiceException" use="literal" />
</fault>
</operation>
<operation name="authorizeTIRCarnetIssuanceTransaction">
  <soap:operation soapAction="http://www.asktirweb.org/services/TIRAccountingService-1/authorizeTIRCarnetIssuanceTransaction" />
  <input>
    <soap:body use="literal" />
  </input>
  <output>
    <soap:body use="literal" />
  </output>
  <fault name="ServiceException">
    <soap:fault name="ServiceException" use="literal" />
  </fault>
</operation>
<operation name="captureTIRCarnetIssuanceTransaction">
  <soap:operation soapAction="http://www.asktirweb.org/services/TIRAccountingService-1/captureTIRCarnetIssuanceTransaction" />
  <input>
    <soap:body use="literal" />
  </input>
  <output>
    <soap:body use="literal" />
  </output>
  <fault name="ServiceException">
    <soap:fault name="ServiceException" use="literal" />
  </fault>
</operation>
<operation name="reverseTIRCarnetIssuanceTransaction">
  <soap:operation soapAction="http://www.asktirweb.org/services/TIRAccountingService-1/reverseTIRCarnetIssuanceTransaction" />
  <input>
    <soap:body use="literal" />
  </input>
  <output>
    <soap:body use="literal" />
  </output>
  <fault name="ServiceException">
    <soap:fault name="ServiceException" use="literal" />
  </fault>
</operation>
<operation name="authorizeAndCaptureTIRCarnetIssuanceTransaction">
  <soap:operation soapAction="http://www.asktirweb.org/services/TIRAccountingService-1/authorizeAndCaptureTIRCarnetIssuanceTransaction" />
  <input>
    <soap:body use="literal" />
  </input>
  <output>
    <soap:body use="literal" />
  </output>
  <fault name="ServiceException">
    <soap:fault name="ServiceException" use="literal" />
  </fault>
</operation>
<operation name="followonCreditTIRCarnetIssuanceTransaction">
  <soap:operation soapAction="http://www.asktirweb.org/services/TIRAccountingService-1/followonCreditTIRCarnetIssuanceTransaction" />
  <input>
    <soap:body use="literal" />
  </input>
  <output>
    <soap:body use="literal" />
  </output>
  <fault name="ServiceException">
    <soap:fault name="ServiceException" use="literal" />
  </fault>
</operation>
<operation name="createDepositOrder">
  <soap:operation soapAction="http://www.asktirweb.org/services/TIRAccountingService-1/createDepositOrder" />
  <input>
    <soap:body use="literal" />
  </input>
  <output>
    <soap:body use="literal" />
  </output>
  <fault name="ServiceException">
    <soap:fault name="ServiceException" use="literal" />
  </fault>
</operation>
<operation name="searchDepositOrder">
  <soap:operation soapAction="http://www.asktirweb.org/services/TIRAccountingService-1/searchDepositOrder" />
  <input>
    <soap:body use="literal" />
  </input>
  <output>
    <soap:body use="literal" />
  </output>
  <fault name="ServiceException">
    <soap:fault name="ServiceException" use="literal" />
  </fault>
</operation>
</binding>

<service name="TIRAccountingService">
  <documentation>Service implemented by associations TIR Accounting system.</documentation>
  <port name="TIRAccountingServicePort" binding="tns:TIRAccountingServicePortBinding">

```

```

<documentation>TIRAccountingServicePort SOAP 1.2 port</documentation>
<soap:address location="http://www.asktirweb.org/services/TIRAccountingService-1" />
<wsa10:EndpointReference>
  <wsa10:Address>http://www.asktirweb.org/services/TIRAccountingService-1</wsa10:Address>
  <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
    <Dns>www.asktirweb.org</Dns>
  </Identity>
</wsa10:EndpointReference>
</port>
</service>
</definitions>

```

6.2 TIR Haulier

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<definitions xmlns="http://schemas.xmlsoap.org/wsdl/" xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap12/"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
  xmlns:wsa10="http://www.w3.org/2005/08/addressing"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  targetNamespace="http://www.asktirweb.org/services/TIRHaulierService-1"
  xmlns:tns="http://www.asktirweb.org/services/TIRHaulierService-1"
  xmlns:act="http://www.iru.org/model/tir-actor-1"
  xmlns:car="http://www.iru.org/model/tir-carnet-1"
  xmlns:com="http://www.asktirweb.org/model/common-1"
  xmlns:c="http://www.asktirweb.org/model/tir-carnet-1"
  xmlns:h="http://www.asktirweb.org/model/haulier-1"
  xmlns:v="http://www.asktirweb.org/model/vehicle-1">
  <wsp:Policy wsu:Id="TIRHaulierServiceUsingAddressingPolicy">
    <wsp:ExactlyOne>
      <wsp>All>
        <wsaw:UsingAddressing />
      </wsp>All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <types>
    <xs:schema targetNamespace="http://www.asktirweb.org/services/TIRHaulierService-1" elementFormDefault="qualified">
      <xs:import namespace="http://www.iru.org/model/tir-actor-1" schemaLocation="tir-actor-1.xsd" />
      <xs:import namespace="http://www.iru.org/model/tir-carnet-1" schemaLocation="tir-carnet-1.xsd" />
      <xs:import namespace="http://www.asktirweb.org/model/common-1" schemaLocation="askw-common-1.xsd"/>
      <xs:import namespace="http://www.asktirweb.org/model/tir-carnet-1" schemaLocation="askw-carnet-1.xsd"/>
      <xs:import namespace="http://www.asktirweb.org/model/haulier-1" schemaLocation="askw-haulier-1.xsd"/>
      <xs:import namespace="http://www.asktirweb.org/model/vehicle-1" schemaLocation="askw-vehicle-1.xsd"/>
      <xs:complexType name="ServiceFaultInfoType">
        <xs:sequence>
          <xs:element name="Id" type="xs:string"/>
          <xs:element name="Message" type="xs:string" minOccurs="0"/>
          <xs:element name="RetryIndicator" type="xs:boolean"/>
          <xs:element name="RetryMinDelay" type="xs:duration" minOccurs="0"/>
          <xs:element name="RetryMaxDelay" type="xs:duration" minOccurs="0"/>
        </xs:sequence>
      </xs:complexType>
      <xs:element name="ServiceFaultInfo" type="tns:ServiceFaultInfoType" />
      <xs:element name="getHaulier">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="id" type="act:HaulierIdType"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="getHaulierResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="haulier" type="h:TIRHaulierType"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="createHaulier">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="haulier" type="h:GeneralInformationType" />
            <xs:element name="legalLocation" type="com:LocationType" />
            <xs:element name="otherLocations" type="com:LocationsType" minOccurs="0" />
            <xs:element name="applicationDate" type="xs:date" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <!-- elements are lower-case as they're used for method parameters only -->
      <xs:group name="HaulierUpdateResponseGroup">
        <xs:sequence>
          <xs:element name="lastModificationDate" type="xs:dateTime" />
        </xs:sequence>
      </xs:group>
      <xs:element name="createHaulierResponse">
        <xs:complexType>
          <xs:group ref="tns:HaulierUpdateResponseGroup"/>
        </xs:complexType>
      </xs:element>
    </xs:schema>
  </types>

```

```

</xs:complexType>
</xs:element>

<xs:complexType name="OtherLocationsType">
  <xs:sequence>
    <xs:element name="Location" type="com:LocationType" minOccurs="0" maxOccurs="unbounded"/><!-- leave empty to clear the list -->
  </xs:sequence>
</xs:complexType>

<xs:element name="setHaulierGeneralInformation">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="haulier" type="h:GeneralInformationType" />
      <xs:element name="legalLocation" type="com:LocationType" minOccurs="0" /><!-- if omitted, then unchanged -->
      <xs:element name="otherLocations" type="tns:OtherLocationsType" minOccurs="0" /><!-- if omitted, then unchanged -->
      <xs:element name="lastModificationDate" type="xs:dateTime"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="setHaulierGeneralInformationResponse">
  <xs:complexType>
    <xs:group ref="tns:HaulierUpdateResponseGroup"/>
  </xs:complexType>
</xs:element>

<xs:element name="getContacts">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="haulierId" type="act:HaulierIdType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="getContactsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="contacts" type="h:ContactsType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="getOfficialDocuments">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="haulierId" type="act:HaulierIdType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="getOfficialDocumentsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="com:OfficialDocumentReferences" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="getTIRGuarantees">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="haulierId" type="act:HaulierIdType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="getTIRGuaranteesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="tirGuarantees" type="h:TIRGuaranteesType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="searchVehicles">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="haulierId" type="act:HaulierIdType"/>
      <xs:element name="filter" type="tns:VehicleSearchFilterType" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:complexType name="SearchedVehicleType">
  <xs:sequence>
    <xs:element ref="com:Id" />
    <xs:element name="Vehicle" type="v:VehicleType" />
    <xs:element name="LastModificationDate" type="xs:dateTime" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="SearchedVehiclesType">
  <xs:sequence>
    <xs:element name="Vehicle" type="tns:SearchedVehicleType" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:element name="searchVehiclesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="vehicles" type="tns:SearchedVehiclesType" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:complexType name="CarnetSearchFilterType">
  <xs:sequence>
    <xs:element name="Status" type="c:TIRHolderCarnetStatusType" minOccurs="0"/>
    <xs:element name="LastEventPeriod" type="com:PeriodType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="searchTIRCarnets">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="haulierId" type="act:HaulierIdType"/>
      <xs:element name="filter" type="tns:CarnetSearchFilterType" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:complexType name="TIRCarnetsType">
  <xs:sequence>
    <xs:element name="TIRCarnet" type="c:TIRHolderCarnetType" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="searchTIRCarnetsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="tirCarnets" type="tns:TIRCarnetsType" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="getTIRCarnet">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="haulierId" type="act:HaulierIdType"/>
      <xs:element name="tirCarnetNumber" type="car:TIRCarnetNumberType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="getTIRCarnetResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="tirCarnet" type="c:TIRTerminatedHolderCarnetType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:complexType name="VehicleSearchFilterType">
  <xs:sequence>
    <xs:element name="Make" type="v:MakeType" minOccurs="0"/>
    <xs:element name="VehicleIdentificationNumberPart" type="xs:string" minOccurs="0"/>
    <xs:element name="RegistrationNumberPart" type="xs:string" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:element name="createVehicle">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="haulierId" type="act:HaulierIdType"/>
      <xs:element name="vehicle" type="v:VehicleType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<!-- elements are lower-case as they're used for method parameters only -->
<xs:group name="VehicleUpdateResponseGroup">
  <xs:sequence>
    <xs:element name="id" type="xs:string" />
    <xs:element name="lastModificationDate" type="xs:dateTime" />
  </xs:sequence>
</xs:group>

<xs:element name="createVehicleResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:group ref="tns:VehicleUpdateResponseGroup"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="getVehicle">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="id" type="xs:string" />
      <xs:element name="haulierId" type="act:HaulierIdType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="getVehicleResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:group ref="tns:VehicleUpdateResponseGroup"/>
      <xs:element name="haulierId" type="act:HaulierIdType"/>
      <xs:element name="vehicle" type="v:VehicleType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

<xs:element name="updateVehicle">
  <xs:complexType>
    <xs:sequence>
      <xs:group ref="tns:VehicleUpdateResponseGroup"/>
      <xs:element name="haulierId" type="act:HaulierIdType"/>
      <xs:element name="vehicle" type="v:VehicleType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="updateVehicleResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:group ref="tns:VehicleUpdateResponseGroup"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="deleteVehicle">
  <xs:complexType>
    <xs:sequence>
      <xs:group ref="tns:VehicleUpdateResponseGroup"/>
      <xs:element name="haulierId" type="act:HaulierIdType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:schema>
</types>

<message name="ServiceException">
  <part name="fault" element="tns:ServiceFaultInfo" />
</message>

<message name="getHaulier">
  <part name="parameters" element="tns:getHaulier" />
</message>
<message name="getHaulierResponse">
  <part name="parameters" element="tns:getHaulierResponse" />
</message>

<message name="createHaulier">
  <part name="parameters" element="tns:createHaulier" />
</message>
<message name="createHaulierResponse">
  <part name="parameters" element="tns:createHaulierResponse" />
</message>

<message name="setHaulierGeneralInformation">
  <part name="parameters" element="tns:setHaulierGeneralInformation" />
</message>
<message name="setHaulierGeneralInformationResponse">
  <part name="parameters" element="tns:setHaulierGeneralInformationResponse" />
</message>

<message name="getContacts">
  <part name="parameters" element="tns:getContacts" />
</message>
<message name="getContactsResponse">
  <part name="parameters" element="tns:getContactsResponse" />
</message>

<message name="getOfficialDocuments">
  <part name="parameters" element="tns:getOfficialDocuments" />
</message>
<message name="getOfficialDocumentsResponse">
  <part name="parameters" element="tns:getOfficialDocumentsResponse" />
</message>

<message name="getTIRGuarantees">
  <part name="parameters" element="tns:getTIRGuarantees" />
</message>
<message name="getTIRGuaranteesResponse">
  <part name="parameters" element="tns:getTIRGuaranteesResponse" />
</message>

<message name="searchVehicles">
  <part name="parameters" element="tns:searchVehicles" />
</message>
<message name="searchVehiclesResponse">
  <part name="parameters" element="tns:searchVehiclesResponse" />
</message>

<message name="searchTIRCarnets">
  <part name="parameters" element="tns:searchTIRCarnets" />
</message>
<message name="searchTIRCarnetsResponse">
  <part name="parameters" element="tns:searchTIRCarnetsResponse" />
</message>

<message name="getTIRCarnet">
  <part name="parameters" element="tns:getTIRCarnet" />
</message>
<message name="getTIRCarnetResponse">
  <part name="parameters" element="tns:getTIRCarnetResponse" />
</message>

<message name="createVehicle">
  <part name="parameters" element="tns:createVehicle" />
</message>

```

```

<message name="createVehicleResponse">
  <part name="parameters" element="tns:createVehicleResponse" />
</message>

<message name="getVehicle">
  <part name="parameters" element="tns:getVehicle" />
</message>
<message name="getVehicleResponse">
  <part name="parameters" element="tns:getVehicleResponse" />
</message>

<message name="updateVehicle">
  <part name="parameters" element="tns:updateVehicle" />
</message>
<message name="updateVehicleResponse">
  <part name="parameters" element="tns:updateVehicleResponse" />
</message>

<message name="deleteVehicle">
  <part name="parameters" element="tns:deleteVehicle" />
</message>
<message name="deleteVehicleResponse">
</message>

<portType name="TIRHaulierSEI">
  <documentation>
    Service Endpoint Interface for associations TIR Haulier system.
  </documentation>

  <operation name="getHaulier">
    <documentation>
      Get the details of a haulier.
    </documentation>
    <input message="tns:getHaulier" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/getHaulier"/>
    <output message="tns:getHaulierResponse" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/getHaulierResponse" />
    <fault message="tns:ServiceException" name="ServiceException" />
  </operation>

  <operation name="createHaulier">
    <documentation>
      Create a new TIR Haulier.
    </documentation>
    <input message="tns:createHaulier" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/createHaulier"/>
    <output message="tns:createHaulierResponse" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/createHaulierResponse" />
    <fault message="tns:ServiceException" name="ServiceException" />
  </operation>

  <operation name="setHaulierGeneralInformation">
    <documentation>
      Update the General Information of an existing TIR Haulier.
    </documentation>
    <input message="tns:setHaulierGeneralInformation" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/
      setHaulierGeneralInformation"/>
    <output message="tns:setHaulierGeneralInformationResponse" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/
      setHaulierGeneralInformationResponse" />
    <fault message="tns:ServiceException" name="ServiceException" />
  </operation>

  <operation name="getContacts">
    <documentation>
      Get the contacts of a haulier.
    </documentation>
    <input message="tns:getContacts" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/getContacts"/>
    <output message="tns:getContactsResponse" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/getContactsResponse" />
    <fault message="tns:ServiceException" name="ServiceException" />
  </operation>

  <operation name="getOfficialDocuments">
    <documentation>
      Get the official documents of a haulier.
    </documentation>
    <input message="tns:getOfficialDocuments" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/getOfficialDocuments"/>
    <output message="tns:getOfficialDocumentsResponse" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/
      getOfficialDocumentsResponse" />
    <fault message="tns:ServiceException" name="ServiceException" />
  </operation>

  <operation name="getTIRGuarantees">
    <documentation>
      Get the TIR guarantees of a haulier.
    </documentation>
    <input message="tns:getTIRGuarantees" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/getTIRGuarantees"/>
    <output message="tns:getTIRGuaranteesResponse" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/getTIRGuaranteesResponse"
      />
    <fault message="tns:ServiceException" name="ServiceException" />
  </operation>

  <operation name="searchVehicles">
    <documentation>
      Search among the vehicles of a haulier.
    </documentation>
    <input message="tns:searchVehicles" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/searchVehicles"/>
    <output message="tns:searchVehiclesResponse" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/searchVehiclesResponse" />
    <fault message="tns:ServiceException" name="ServiceException" />
  </operation>

  <operation name="searchTIRCarnets">
    <documentation>
      Search among the TIR carnets which have been issued to a haulier.

```

```

</documentation>
<input message="tns:searchTIRCarnets" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/searchTIRCarnets"/>
<output message="tns:searchTIRCarnetsResponse" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/searchTIRCarnetsResponse"
/>
<fault message="tns:ServiceException" name="ServiceException" />
</operation>

<operation name="getTIRCarnet">
<documentation>
  Get the details (incl. TIR operation terminations) of a TIR carnet which has been issued to a haulier.
</documentation>
<input message="tns:getTIRCarnet" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/getTIRCarnet"/>
<output message="tns:getTIRCarnetResponse" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/getTIRCarnetResponse" />
<fault message="tns:ServiceException" name="ServiceException" />
</operation>

<operation name="createVehicle">
<documentation>
  Create a new Vehicle.
</documentation>
<input message="tns:createVehicle" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/createVehicle"/>
<output message="tns:createVehicleResponse" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/createVehicleResponse" />
<fault message="tns:ServiceException" name="ServiceException" />
</operation>

<operation name="getVehicle">
<documentation>
  Get an existing Vehicle.
</documentation>
<input message="tns:getVehicle" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/getVehicle"/>
<output message="tns:getVehicleResponse" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/getVehicleResponse" />
<fault message="tns:ServiceException" name="ServiceException" />
</operation>

<operation name="updateVehicle">
<documentation>
  Update an existing Vehicle.
</documentation>
<input message="tns:updateVehicle" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/updateVehicle"/>
<output message="tns:updateVehicleResponse" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/updateVehicleResponse" />
<fault message="tns:ServiceException" name="ServiceException" />
</operation>

<operation name="deleteVehicle">
<documentation>
  Delete an existing Vehicle.
</documentation>
<input message="tns:deleteVehicle" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/deleteVehicle"/>
<output message="tns:deleteVehicleResponse" wsaw:Action="http://www.asktirweb.org/services/TIRHaulierService-1/deleteVehicleResponse" />
<fault message="tns:ServiceException" name="ServiceException" />
</operation>

</portType>

<binding name="TIRHaulierServicePortBinding" type="tns:TIRHaulierSEI">
<soap:binding transport="http://schemas.xmlsoap.org/soap/http" style="document" />
<operation name="getHaulier">
<soap:operation soapAction="http://www.asktirweb.org/services/TIRHaulierService-1/getHaulier" />
<input>
  <soap:body use="literal" />
</input>
<output>
  <soap:body use="literal" />
</output>
<fault name="ServiceException">
  <soap:fault name="ServiceException" use="literal" />
</fault>
</operation>
<operation name="createHaulier">
<soap:operation soapAction="http://www.asktirweb.org/services/TIRHaulierService-1/createHaulier" />
<input>
  <soap:body use="literal" />
</input>
<output>
  <soap:body use="literal" />
</output>
<fault name="ServiceException">
  <soap:fault name="ServiceException" use="literal" />
</fault>
</operation>
<operation name="setHaulierGeneralInformation">
<soap:operation soapAction="http://www.asktirweb.org/services/TIRHaulierService-1/setHaulierGeneralInformation" />
<input>
  <soap:body use="literal" />
</input>
<output>
  <soap:body use="literal" />
</output>
<fault name="ServiceException">
  <soap:fault name="ServiceException" use="literal" />
</fault>
</operation>
<operation name="getContacts">
<soap:operation soapAction="http://www.asktirweb.org/services/TIRHaulierService-1/getContacts" />
<input>
  <soap:body use="literal" />
</input>
<output>
  <soap:body use="literal" />
</output>

```

```

</output>
<fault name="ServiceException">
  <soap:fault name="ServiceException" use="literal" />
</fault>
</operation>
<operation name="getOfficialDocuments">
  <soap:operation soapAction="http://www.asktirweb.org/services/TIRHaulierService-1/getOfficialDocuments" />
  <input>
    <soap:body use="literal" />
  </input>
  <output>
    <soap:body use="literal" />
  </output>
  <fault name="ServiceException">
    <soap:fault name="ServiceException" use="literal" />
  </fault>
</operation>
<operation name="getTIRGuarantees">
  <soap:operation soapAction="http://www.asktirweb.org/services/TIRHaulierService-1/getTIRGuarantees" />
  <input>
    <soap:body use="literal" />
  </input>
  <output>
    <soap:body use="literal" />
  </output>
  <fault name="ServiceException">
    <soap:fault name="ServiceException" use="literal" />
  </fault>
</operation>
<operation name="searchVehicles">
  <soap:operation soapAction="http://www.asktirweb.org/services/TIRHaulierService-1/searchVehicles" />
  <input>
    <soap:body use="literal" />
  </input>
  <output>
    <soap:body use="literal" />
  </output>
  <fault name="ServiceException">
    <soap:fault name="ServiceException" use="literal" />
  </fault>
</operation>
<operation name="searchTIRCarnets">
  <soap:operation soapAction="http://www.asktirweb.org/services/TIRHaulierService-1/searchTIRCarnets" />
  <input>
    <soap:body use="literal" />
  </input>
  <output>
    <soap:body use="literal" />
  </output>
  <fault name="ServiceException">
    <soap:fault name="ServiceException" use="literal" />
  </fault>
</operation>
<operation name="getTIRCarnet">
  <soap:operation soapAction="http://www.asktirweb.org/services/TIRHaulierService-1/getTIRCarnet" />
  <input>
    <soap:body use="literal" />
  </input>
  <output>
    <soap:body use="literal" />
  </output>
  <fault name="ServiceException">
    <soap:fault name="ServiceException" use="literal" />
  </fault>
</operation>
<operation name="createVehicle">
  <soap:operation soapAction="http://www.asktirweb.org/services/TIRHaulierService-1/createVehicle" />
  <input>
    <soap:body use="literal" />
  </input>
  <output>
    <soap:body use="literal" />
  </output>
  <fault name="ServiceException">
    <soap:fault name="ServiceException" use="literal" />
  </fault>
</operation>
<operation name="getVehicle">
  <soap:operation soapAction="http://www.asktirweb.org/services/TIRHaulierService-1/getVehicle" />
  <input>
    <soap:body use="literal" />
  </input>
  <output>
    <soap:body use="literal" />
  </output>
  <fault name="ServiceException">
    <soap:fault name="ServiceException" use="literal" />
  </fault>
</operation>
<operation name="updateVehicle">
  <soap:operation soapAction="http://www.asktirweb.org/services/TIRHaulierService-1/updateVehicle" />
  <input>
    <soap:body use="literal" />
  </input>
  <output>
    <soap:body use="literal" />
  </output>
  <fault name="ServiceException">
    <soap:fault name="ServiceException" use="literal" />
  </fault>
</operation>

```

```

</fault>
</operation>
<operation name="deleteVehicle">
  <soap:operation soapAction="http://www.asktirweb.org/services/TIRHaulierService-1/deleteVehicle" />
  <input>
    <soap:body use="literal" />
  </input>
  <output>
    <soap:body use="literal" />
  </output>
  <fault name="ServiceException">
    <soap:fault name="ServiceException" use="literal" />
  </fault>
</operation>
</binding>

<service name="TIRHaulierService">
  <documentation>Service implemented by associations TIR Accounting system.</documentation>
  <port name="TIRHaulierServicePort" binding="tns:TIRHaulierServicePortBinding">
    <documentation>TIRHaulierServicePort SOAP 1.2 port</documentation>
    <soap:address location="http://www.asktirweb.org/services/TIRHaulierService-1" />
    <wsa10:EndpointReference>
      <wsa10:Address>http://www.asktirweb.org/services/TIRHaulierService-1</wsa10:Address>
      <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
        <Dns>www.asktirweb.org</Dns>
      </Identity>
    </wsa10:EndpointReference>
  </port>
</service>
</definitions>

```

6.3 TIR Haulier portal admin services

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<definitions xmlns="http://schemas.xmlsoap.org/wsdl/" xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap12/"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
  xmlns:wsa10="http://www.w3.org/2005/08/addressing"
  xmlns:wssu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  targetNamespace="http://www.asktirweb.org/services/HaulierPortalAdminService-1"
  xmlns:tns="http://www.asktirweb.org/services/HaulierPortalAdminService-1"
  xmlns:com="http://www.asktirweb.org/model/common-1"
  xmlns:h="http://www.asktirweb.org/model/haulier-1"
  xmlns:v="http://www.asktirweb.org/model/vehicle-1"
  xmlns:ctt="http://www.asktirweb.org/model/contact-1">

  <wsp:Policy wsu:Id="HaulierPortalAdminServiceUsingAddressingPolicy">
    <wsp:ExactlyOne>
      <wsp:All>
        <wsaw:UsingAddressing />
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>

  <types>
    <xs:schema targetNamespace="http://www.asktirweb.org/services/HaulierPortalAdminService-1" elementFormDefault="qualified">
      <xs:import namespace="http://www.iru.org/model/tir-actor-1" schemaLocation="tir-actor-1.xsd" />
      <xs:import namespace="http://www.asktirweb.org/model/common-1" schemaLocation="askw-common-1.xsd"/>
      <xs:import namespace="http://www.asktirweb.org/model/haulier-1" schemaLocation="askw-haulier-1.xsd"/>
      <xs:import namespace="http://www.asktirweb.org/model/vehicle-1" schemaLocation="askw-vehicle-1.xsd"/>
      <xs:import namespace="http://www.asktirweb.org/model/contact-1" schemaLocation="askw-contact-1.xsd"/>

      <xs:complexType name="ServiceFaultInfoType">
        <xs:sequence>
          <xs:element name="Id" type="xs:string"/>
          <xs:element name="Message" type="xs:string" minOccurs="0"/>
          <xs:element name="RetryIndicator" type="xs:boolean"/>
          <xs:element name="RetryMinDelay" type="xs:duration" minOccurs="0"/>
          <xs:element name="RetryMaxDelay" type="xs:duration" minOccurs="0"/>
        </xs:sequence>
      </xs:complexType>

      <xs:element name="ServiceFaultInfo" type="tns:ServiceFaultInfoType" />

      <xs:complexType name="TIRHaulierSearchFilterType">
        <xs:sequence>
          <xs:element name="ModificationPeriod" type="com:PeriodType" minOccurs="0"/>
          <xs:element name="AssociationTIRStatus" type="h:AssociationTIRStatusType" minOccurs="0"/>
          <xs:element name="CustomsTIRStatus" type="h:CustomsTIRStatusType" minOccurs="0"/>
        </xs:sequence>
      </xs:complexType>
      <xs:element name="searchTIRHauliers">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="filter" type="tns:TIRHaulierSearchFilterType"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>

      <xs:complexType name="TIRHauliersType">
        <xs:sequence>
          <xs:element name="Haulier" type="h:TIRHaulierType" maxOccurs="unbounded"/>
        </xs:sequence>
      </xs:complexType>
      <xs:element name="searchTIRHauliersResponse">

```

```

<xs:complexType>
  <xs:sequence>
    <xs:element name="hauliers" type="tns:TIRHauliersType"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

<xs:element name="getVehicleMakes"/>
<xs:complexType name="VehicleMakesType">
  <xs:sequence>
    <xs:element name="Make" type="v:MakeType"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="getVehicleMakesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="makes" type="tns:VehicleMakesType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:complexType name="VehicleTypesType">
  <xs:sequence>
    <xs:element name="Type" type="v:VehicleTypeType" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
<xs:element name="getVehicleTypes"/>
<xs:element name="getVehicleTypesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="vehicleTypes" type="tns:VehicleTypesType" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="getVehicleCertificateTypes"/>
<xs:complexType name="VehicleCertificateTypesType">
  <xs:sequence>
    <xs:element name="VehicleCertificateType" type="xs:string" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="getVehicleCertificateTypesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="vehicleCertificateTypes" type="tns:VehicleCertificateTypesType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="getCompartmentTypeCodes"/>
<xs:element name="getCompartmentTypeCodesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="compartmentTypeCodes" type="com:CodesType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="getContacts">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="modificationPeriod" type="com:PeriodType" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:complexType name="ModifiedContactType">
  <xs:sequence>
    <xs:element ref="com:Id" />
    <xs:element name="Contact" type="ctt:ContactType"/>
    <xs:element name="Relationships" type="h:ContactRelationshipsType" minOccurs="0"/>
    <xs:element name="Ownerships" type="h:ContactOwnershipsType" minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="modificationDate" type="xs:dateTime" />
</xs:complexType>

<xs:complexType name="ModifiedContactsType">
  <xs:sequence>
    <xs:element name="Contact" type="tns:ModifiedContactType" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="DeletedContactsType">
  <xs:sequence>
    <xs:element name="ContactId" type="com:IdType" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:element name="getContactsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="modifiedContacts" type="tns:ModifiedContactsType" minOccurs="0" />
      <xs:element name="deletedContacts" type="tns:DeletedContactsType" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:schema>

```

```

</types>

<message name="ServiceException">
  <part name="fault" element="tns:ServiceFaultInfo" />
</message>

<message name="searchTIRHauliers">
  <part name="parameters" element="tns:searchTIRHauliers" />
</message>
<message name="searchTIRHauliersResponse">
  <part name="parameters" element="tns:searchTIRHauliersResponse" />
</message>

<message name="getVehicleMakes">
  <part name="parameters" element="tns:getVehicleMakes" />
</message>
<message name="getVehicleMakesResponse">
  <part name="parameters" element="tns:getVehicleMakesResponse" />
</message>

<message name="getVehicleCertificateTypes">
  <part name="parameters" element="tns:getVehicleCertificateTypes" />
</message>
<message name="getVehicleCertificateTypesResponse">
  <part name="parameters" element="tns:getVehicleCertificateTypesResponse" />
</message>

<message name="getCompartmentTypeCodes">
  <part name="parameters" element="tns:getCompartmentTypeCodes" />
</message>
<message name="getCompartmentTypeCodesResponse">
  <part name="parameters" element="tns:getCompartmentTypeCodesResponse" />
</message>

<message name="getContacts">
  <part name="parameters" element="tns:getContacts" />
</message>
<message name="getContactsResponse">
  <part name="parameters" element="tns:getContactsResponse" />
</message>

<portType name="HaulierPortalAdminSEI">
  <documentation>
    Service Endpoint Interface for associations TIR Haulier Portal Administration.
  </documentation>

  <operation name="searchTIRHauliers">
    <documentation>
      Search among the hauliers.
    </documentation>
    <input message="tns:searchTIRHauliers" wsaw:Action="http://www.asktirweb.org/services/HaulierPortalAdminService-1/searchTIRHauliers"/>
    <output message="tns:searchTIRHauliersResponse" wsaw:Action="http://www.asktirweb.org/services/HaulierPortalAdminService-1/searchTIRHauliersResponse" />
    <fault message="tns:ServiceException" name="ServiceException" />
  </operation>

  <operation name="getVehicleMakes">
    <documentation>
      Get the list of possible vehicle makes.
    </documentation>
    <input message="tns:getVehicleMakes" wsaw:Action="http://www.asktirweb.org/services/HaulierPortalAdminService-1/getVehicleMakes"/>
    <output message="tns:getVehicleMakesResponse" wsaw:Action="http://www.asktirweb.org/services/HaulierPortalAdminService-1/getVehicleMakesResponse" />
    <fault message="tns:ServiceException" name="ServiceException" />
  </operation>

  <operation name="getVehicleCertificateTypes">
    <documentation>
      Get the list of possible vehicle makes.
    </documentation>
    <input message="tns:getVehicleCertificateTypes" wsaw:Action="http://www.asktirweb.org/services/HaulierPortalAdminService-1/getVehicleCertificateTypes"/>
    <output message="tns:getVehicleCertificateTypesResponse" wsaw:Action="http://www.asktirweb.org/services/HaulierPortalAdminService-1/getVehicleCertificateTypesResponse" />
    <fault message="tns:ServiceException" name="ServiceException" />
  </operation>

  <operation name="getCompartmentTypeCodes">
    <documentation>
      Get the list of possible vehicle makes.
    </documentation>
    <input message="tns:getCompartmentTypeCodes" wsaw:Action="http://www.asktirweb.org/services/HaulierPortalAdminService-1/getCompartmentTypeCodes"/>
    <output message="tns:getCompartmentTypeCodesResponse" wsaw:Action="http://www.asktirweb.org/services/HaulierPortalAdminService-1/getCompartmentTypeCodesResponse" />
    <fault message="tns:ServiceException" name="ServiceException" />
  </operation>

  <operation name="getContacts">
    <documentation>
      Get the list of modified/deleted contacts in a period.
    </documentation>
    <input message="tns:getContacts" wsaw:Action="http://www.asktirweb.org/services/HaulierPortalAdminService-1/getContacts"/>
    <output message="tns:getContactsResponse" wsaw:Action="http://www.asktirweb.org/services/HaulierPortalAdminService-1/getContactsResponse" />
    <fault message="tns:ServiceException" name="ServiceException" />
  </operation>

```

```

</portType>

<binding name="HaulierPortalAdminServicePortBinding" type="tns:HaulierPortalAdminSEI">
  <soap:binding transport="http://schemas.xmlsoap.org/soap/http" style="document" />
  <operation name="searchTIRHauliers">
    <soap:operation soapAction="http://www.asktirweb.org/services/HaulierPortalAdminService-1/searchTIRHauliers" />
    <input>
      <soap:body use="literal" />
    </input>
    <output>
      <soap:body use="literal" />
    </output>
    <fault name="ServiceException">
      <soap:fault name="ServiceException" use="literal" />
    </fault>
  </operation>
  <operation name="getVehicleMakes">
    <soap:operation soapAction="http://www.asktirweb.org/services/HaulierPortalAdminService-1/getVehicleMakes" />
    <input>
      <soap:body use="literal" />
    </input>
    <output>
      <soap:body use="literal" />
    </output>
    <fault name="ServiceException">
      <soap:fault name="ServiceException" use="literal" />
    </fault>
  </operation>
  <operation name="getVehicleCertificateTypes">
    <soap:operation soapAction="http://www.asktirweb.org/services/HaulierPortalAdminService-1/getVehicleCertificateTypes" />
    <input>
      <soap:body use="literal" />
    </input>
    <output>
      <soap:body use="literal" />
    </output>
    <fault name="ServiceException">
      <soap:fault name="ServiceException" use="literal" />
    </fault>
  </operation>
  <operation name="getCompartmentTypeCodes">
    <soap:operation soapAction="http://www.asktirweb.org/services/HaulierPortalAdminService-1/getCompartmentTypeCodes" />
    <input>
      <soap:body use="literal" />
    </input>
    <output>
      <soap:body use="literal" />
    </output>
    <fault name="ServiceException">
      <soap:fault name="ServiceException" use="literal" />
    </fault>
  </operation>
  <operation name="getContacts">
    <soap:operation soapAction="http://www.asktirweb.org/services/HaulierPortalAdminService-1/getContacts" />
    <input>
      <soap:body use="literal" />
    </input>
    <output>
      <soap:body use="literal" />
    </output>
    <fault name="ServiceException">
      <soap:fault name="ServiceException" use="literal" />
    </fault>
  </operation>
</binding>

<service name="HaulierPortalAdminService">
  <documentation>Service implemented by associations TIR Accounting system.</documentation>
  <port name="HaulierPortalAdminServicePort" binding="tns:HaulierPortalAdminServicePortBinding">
    <documentation>HaulierPortalAdminServicePort SOAP 1.2 port</documentation>
    <soap:address location="http://www.asktirweb.org/services/HaulierPortalAdminService-1" />
    <wsa10:EndpointReference>
      <wsa10:Address>http://www.asktirweb.org/services/HaulierPortalAdminService-1</wsa10:Address>
      <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
        <Dns>www.asktirweb.org</Dns>
        </Identity>
      </wsa10:EndpointReference>
    </port>
  </service>
</definitions>

```

7 Schemas

7.1 AskTIR^{web} specific schemas

7.1.1 Common

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
```

```

<xs:schema version="1.0"
  targetNamespace="http://www.asktirweb.org/model/common-1" xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns="http://www.asktirweb.org/model/common-1"
  xmlns:act="http://www.iru.org/model/tir-actor-1"
  xmlns:cs="http://www.ietf.org/rfc/rfc2278"
  xmlns:mt="http://www.ietf.org/rfc/rfc4288"
  xmlns:icc="http://www.iru.org/model/iso-3166-1-alpha-3"
  xmlns:l="http://www.iru.org/model/iso-639-1"
  elementFormDefault="qualified">
  <xs:import namespace="http://www.iru.org/model/tir-actor-1" schemaLocation="tir-actor-1.xsd"/>
  <xs:import namespace="http://www.ietf.org/rfc/rfc2278" schemaLocation="ietf-rfc-2278.xsd"/>
  <xs:import namespace="http://www.ietf.org/rfc/rfc4288" schemaLocation="ietf-rfc-4288.xsd"/>
  <xs:import namespace="http://www.iru.org/model/iso-3166-1-alpha-3" schemaLocation="iso-3166-1-alpha-3.xsd"/>
  <xs:import namespace="http://www.iru.org/model/iso-639-1" schemaLocation="iso-639-1.xsd"/>
  <xs:import namespace="http://www.ietf.org/rfc/rfc2278" schemaLocation="ietf-rfc-2278.xsd"/>
  <xs:simpleType name="QuantityType">
    <xs:restriction base="xs:unsignedInt"/>
  </xs:simpleType>
  <xs:simpleType name="IdType" >
    <xs:restriction base="xs:token"/>
  </xs:simpleType>
  <xs:element name="Id" type="IdType"/>
  <xs:complexType name="CodeType">
    <xs:simpleContent>
      <xs:extension base="xs:string">
        <xs:attribute name="type" type="xs:string" use="required"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
  <xs:complexType name="CodesType">
    <xs:sequence>
      <xs:element name="Code" type="CodeType" minOccurs="1" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="ReferenceType">
    <xs:simpleContent>
      <xs:extension base="xs:string">
        <xs:attribute name="type" type="xs:string" use="required"/>
        <xs:attribute name="date" type="xs:dateTime" use="optional"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
  <xs:simpleType name="ReferenceTypeValueType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="http://association.iru.org/logistics/order"/>
      <xs:enumeration value="http://tir.iru.org/accounting/invoice"/>
      <xs:enumeration value="http://tir.iru.org/logistics/despatch"/>
      <xs:enumeration value="http://tir.iru.org/logistics/despatch/line"/>
      <xs:enumeration value="http://www.asktirweb.org/logistics/order"/>
      <xs:enumeration value="http://www.asktirweb.org/logistics/despatch"/>
      <xs:enumeration value="http://www.asktirweb.org/logistics/receipt"/>
      <xs:enumeration value="http://www.asktirweb.org/control"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:complexType name="AssociationOfficeType">
    <xs:attribute name="id" type="IdType" use="required"/>
    <xs:attribute name="name" type="xs:string" use="optional"/>
    <xs:attribute name="associationId" type="xs:unsignedInt" use="required"/>
  </xs:complexType>
  <xs:element name="AssociationOffice" type="AssociationOfficeType"/>
  <xs:complexType name="UserType">
    <xs:attribute name="username" type="IdType" use="required"/>
    <xs:attribute name="name" type="xs:string" use="optional"/>
    <xs:attribute name="associationId" type="xs:unsignedInt" use="required"/>
  </xs:complexType>
  <xs:element name="User" type="UserType"/>
  <xs:complexType name="HaulierContactType">
    <xs:attribute name="firstName" type="NameElementType" use="optional"/>
    <xs:attribute name="middleName" type="NameElementType" use="optional"/>
    <xs:attribute name="lastName" type="NameElementType" use="optional"/>
    <xs:attribute name="haulierId" type="act:HaulierIdType" use="required"/>
    <xs:attribute name="haulierName" type="xs:string" use="optional"/>
  </xs:complexType>
  <xs:element name="HaulierContact" type="HaulierContactType"/>
  <xs:complexType name="PartyType">
    <xs:choice>
      <xs:element ref="act:IRU"/>
      <xs:element ref="act:Association"/>
      <xs:element ref="AssociationOffice"/>
      <xs:element ref="User"/>
      <xs:element ref="act:Haulier"/>
      <xs:element ref="HaulierContact"/>
    </xs:choice>
  </xs:complexType>
  <xs:complexType name="DocumentContentType">
    <xs:simpleContent>

```

```

<xs:extension base="xs:base64Binary">
  <xs:attribute name="mimetype" use="optional" type="mt:IANAMediaType" default="application/octet-stream"/>
  <xs:attribute name="charset" use="optional" type="cs:IANACharsetType"/>
</xs:extension>
</xs:simpleContent>
</xs:complexType>

<xs:complexType name="DocumentType">
  <xs:sequence>
    <xs:element name="Reference" type="ReferenceType" />
    <xs:choice>
      <xs:element name="Location" type="xs:anyURI" />
      <xs:element name="Content" type="DocumentContentType"/>
    </xs:choice>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="AddressLinesType">
  <xs:sequence>
    <xs:element name="AddressLine" type="xs:string" minOccurs="1" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="AddressType">
  <xs:sequence>
    <xs:element name="AddressLines" type="AddressLinesType"/>
    <xs:element name="Locality" type="xs:string"/>
    <xs:element name="PostalCode" type="xs:string"/>
    <xs:element name="CountryCode" type="icc:CountryCodeType" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="PeriodType">
  <xs:attribute name="start" type="xs:dateTime" use="optional"/>
  <xs:attribute name="end" type="xs:dateTime" use="optional"/>
</xs:complexType>

<xs:simpleType name="NameElementType">
  <xs:restriction base="xs:string"/>
</xs:simpleType>

<xs:complexType name="LocalisedNameElementType">
  <xs:simpleContent>
    <xs:extension base="NameElementType">
      <xs:attribute name="languageCode" type="l:LanguageCodeType" use="optional"/>
      <xs:attribute name="charset" type="cs:IANACharsetType" use="optional"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>

<xs:complexType name="TypedNameElementType">
  <xs:simpleContent>
    <xs:extension base="NameElementType">
      <xs:attribute name="type" type="xs:string" use="required"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>

<xs:complexType name="OrganisationType">
  <xs:sequence>
    <xs:element name="Name" type="NameElementType"/>
    <xs:element name="CountryCode" type="icc:CountryCodeType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:simpleType name="PersonOtherNameTypeValueType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="http://www.asktirweb.org/person/fathersName"/>
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="PersonNameType">
  <xs:sequence>
    <xs:element name="FirstName" type="NameElementType" minOccurs="0"/>
    <xs:element name="MiddleName" type="NameElementType" minOccurs="0"/>
    <xs:element name="LastName" type="NameElementType" minOccurs="0"/>
    <xs:element name="OtherNames" type="TypedNameElementType" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="OfficialDocumentReferenceType">
  <xs:sequence>
    <xs:element ref="Id"/>
    <xs:element name="Type" type="xs:string"/>
    <xs:element name="IssueDate" type="xs:dateTime" minOccurs="0"/>
    <xs:element name="IssuingOrganisation" type="OrganisationType" minOccurs="0"/>
    <xs:element name="ValidityPeriod" type="PeriodType" minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="primary" type="xs:boolean" use="optional" default="false"/>
</xs:complexType>

<xs:element name="OfficialDocumentReference" type="OfficialDocumentReferenceType"/>

<xs:complexType name="OfficialDocumentReferencesType">
  <xs:sequence>
    <xs:element ref="OfficialDocumentReference" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="OfficialDocumentReferences" type="OfficialDocumentReferencesType"/>

```

```

<xs:complexType name="MeasureType">
  <xs:simpleContent>
    <xs:extension base="xs:decimal">
      <xs:attribute name="unitCode" type="xs:normalizedString" use="required"/>
      <xs:attribute name="unitCodeListURI" type="xs:anyURI" use="optional"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>

<xs:complexType name="CommunicationMeanType">
  <xs:simpleContent>
    <xs:extension base="xs:string">
      <xs:attribute name="type" type="xs:string" use="optional"/>
      <xs:attribute name="usage" type="xs:string" use="optional" />
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
<xs:element name="CommunicationMean" type="CommunicationMeanType"/>

<xs:element name="EmailAddress" substitutionGroup="CommunicationMean"/>
<xs:element name="PhoneNumber" substitutionGroup="CommunicationMean"/>
<xs:element name="FaxNumber" substitutionGroup="CommunicationMean"/>
<xs:element name="TelexNumber" substitutionGroup="CommunicationMean"/>

<xs:complexType name="CommunicationMeansType">
  <xs:sequence>
    <xs:element ref="CommunicationMean" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="CommunicationMeans" type="CommunicationMeansType" />

<xs:complexType name="LocationType">
  <xs:sequence>
    <xs:element name="Addressee" type="NameElementType" minOccurs="0"/>
    <xs:element name="Address" type="AddressType"/>
    <xs:element ref="CommunicationMeans" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="LocationsType">
  <xs:sequence>
    <xs:element name="Location" type="LocationType" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="ContractualRelationshipType">
  <xs:sequence>
    <xs:element name="Type" type="xs:string"/>
    <xs:element name="Period" type="PeriodType" minOccurs="0"/>
    <xs:element name="OwnerName" type="xs:string" minOccurs="0"/>
    <xs:element name="OwnerType" type="CodeType" minOccurs="0"/>
    <xs:element name="OwnerCountryCode" type="icc:CountryCodeType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="NoteType">
  <xs:simpleContent>
    <xs:extension base="xs:string">
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
</xs:schema>

```

7.1.2 Carnet

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema version="1.0"
  targetNamespace="http://www.asktirweb.org/model/tir-carnet-1" xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns="http://www.asktirweb.org/model/tir-carnet-1"
  xmlns:car="http://www.iru.org/model/tir-carnet-1"
  xmlns:com="http://www.asktirweb.org/model/common-1"
  xmlns:rts="http://rts.iru.org/model/termination-1"
  elementFormDefault="qualified">

  <xs:import namespace="http://www.iru.org/model/tir-carnet-1" schemaLocation="tir-carnet-1.xsd"/>
  <xs:import namespace="http://rts.iru.org/model/termination-1" schemaLocation="rts-termination-1.xsd"/>
  <xs:import namespace="http://www.asktirweb.org/model/common-1" schemaLocation="askw-common-1.xsd"/>

  <xs:element name="VoletCount" type="car:VoletCountType"/>

  <xs:simpleType name="AdditionalCarnetPropertyNameCodeType">
    <xs:restriction base="xs:token">
      <xs:enumeration value="USED" />
      <xs:enumeration value="DEFFECTIVE" />
      <xs:enumeration value="HVG" />
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="AdditionalCarnetPropertyNameCodeTypeType">
    <xs:restriction base="xs:anyURI">
      <xs:enumeration value="http://www.asktirweb.org/model/tir-carnet-1/property-name" />
    </xs:restriction>
  </xs:simpleType>

```

```

<xs:complexType name="AdditionalCarnetPropertyType">
  <xs:sequence>
    <xs:element name="NameCode" type="com:CodeType" />
    <xs:element name="Value" type="xs:string" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="AdditionalCarnetPropertiesType">
  <xs:sequence>
    <xs:element name="AdditionalCarnetProperty" type="AdditionalCarnetPropertyType" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:simpleType name="CarnetTypeType">
  <xs:restriction base="xs:token">
    <xs:enumeration value="ORDINARY"/>
    <xs:enumeration value="PILOT"/>
    <xs:enumeration value="TRANSIT"/>
    <xs:enumeration value="INTERNAL"/>
    <xs:enumeration value="EGUARANTEE"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="CarnetType" type="CarnetTypeType"/>

<xs:complexType name="TIRCarnetRangeInstanceType">
  <xs:sequence>
    <xs:element name="FirstTIRCarnetNumber" type="car:TIRCarnetNumberType" />
    <xs:element name="LastTIRCarnetNumber" type="car:TIRCarnetNumberType" />
    <xs:element name="UnitQuantity" type="com:QuantityType" minOccurs="0"/>
    <xs:element name="PackagesQuantity" type="com:QuantityType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="TIRCarnetRangeInstance" type="TIRCarnetRangeInstanceType" />

<xs:complexType name="TIRCarnetItemType">
  <xs:sequence>
    <xs:element ref="VoletCount" />
    <xs:element ref="CarnetType" />
    <xs:element name="AdditionalCarnetProperties" type="AdditionalCarnetPropertiesType" minOccurs="0" />
    <xs:element ref="TIRCarnetRangeInstance" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="TIRCarnetItem" type="TIRCarnetItemType"/>

<xs:simpleType name="TIRHolderCarnetStatusType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ISSUED" />
    <xs:enumeration value="RETURNED" />
    <xs:enumeration value="STOPPED" />
  </xs:restriction>
</xs:simpleType>

<!-- represents the guarantee, as emitted to the holder -->
<xs:complexType name="TIRHolderCarnetType">
  <xs:sequence>
    <xs:element name="TIRCarnetNumber" type="car:TIRCarnetNumberType"/>
    <xs:element ref="VoletCount" />
    <xs:element ref="CarnetType" />
    <xs:element name="Status" type="TIRHolderCarnetStatusType"/>
    <xs:element name="IssuanceDate" type="xs:dateTime"/>
    <xs:element name="ExpiryDate" type="xs:date"/><!-- last day when the carnet can be open @ customs office, not validity -->
    <xs:element name="ReturnLimitDate" type="xs:date" minOccurs="0" />
    <xs:element name="ReturnDate" type="xs:dateTime" minOccurs="0"/>
    <xs:element name="AutomaticTemporarySuspensionDate" type="xs:date" minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="lastEventDate" type="xs:dateTime" use="required"/>
  <xs:attribute name="tirOperationTerminationCount" type="xs:unsignedInt" use="optional"/><!-- number of terminations, can't be more than 3 (
    in theory) ; missing if we did not get the count -->
</xs:complexType>

<xs:complexType name="TIROperationTerminationsType">
  <xs:sequence>
    <xs:element name="TIROperationTermination" type="rts:TIROperationTerminationType" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="TIRTerminatedHolderCarnetType">
  <xs:complexContent>
    <xs:extension base="TIRHolderCarnetType">
      <xs:sequence>
        <xs:element name="TIROperationTerminations" type="TIROperationTerminationsType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
</xs:schema>

```

7.1.3 Carnet Order

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema version="1.0"
  targetNamespace="http://www.asktirweb.org/model/carnet-order-1" xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns="http://www.asktirweb.org/model/carnet-order-1"

```

```

xmlns:act="http://www.iru.org/model/tir-actor-1"
xmlns:car="http://www.asktirweb.org/model/tir-carnet-1"
xmlns:com="http://www.asktirweb.org/model/common-1"
elementFormDefault="qualified">

<xs:import namespace="http://www.iru.org/model/tir-actor-1" schemaLocation="tir-actor-1.xsd"/>
<xs:import namespace="http://www.asktirweb.org/model/tir-carnet-1" schemaLocation="askw-carnet-1.xsd"/>
<xs:import namespace="http://www.asktirweb.org/model/common-1" schemaLocation="askw-common-1.xsd"/>

<xs:complexType name="TIRCarnetOrderLineType">
  <xs:sequence>
    <xs:element ref="com:Id" />
    <xs:element name="Quantity" type="com:QuantityType" />
    <xs:element ref="car:TIRCarnetItem" /><!-- TIRCarnetRangeInstance should not be present -->
  </xs:sequence>
</xs:complexType>
<xs:element name="TIRCarnetOrderLine" type="TIRCarnetOrderLineType"/>

<xs:complexType name="TIRCarnetOrderType">
  <xs:sequence>
    <xs:element ref="com:Id" />
    <xs:element name="IssueDate" type="xs:dateTime" />
    <xs:element name="CustomerParty" type="com:PartyType"/>
    <xs:element name="SupplierParty" type="com:PartyType"/>
    <xs:element ref="TIRCarnetOrderLine" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
<xs:element name="TIRCarnetOrder" type="TIRCarnetOrderType"/>
</xs:schema>

```

7.1.4 Haulier

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema version="1.0"
  targetNamespace="http://www.asktirweb.org/model/haulier-1" xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns="http://www.asktirweb.org/model/haulier-1"
  xmlns:act="http://www.iru.org/model/tir-actor-1"
  xmlns:acc="http://www.asktirweb.org/model/accounting-1"
  xmlns:com="http://www.asktirweb.org/model/common-1"
  xmlns:ctt="http://www.asktirweb.org/model/contact-1"
  elementFormDefault="qualified">

  <xs:import namespace="http://www.iru.org/model/tir-actor-1" schemaLocation="tir-actor-1.xsd"/>
  <xs:import namespace="http://www.asktirweb.org/model/accounting-1" schemaLocation="askw-accounting-1.xsd"/>
  <xs:import namespace="http://www.asktirweb.org/model/common-1" schemaLocation="askw-common-1.xsd"/>
  <xs:import namespace="http://www.asktirweb.org/model/contact-1" schemaLocation="askw-contact-1.xsd"/>

  <xs:simpleType name="CodeTypeType">
    <xs:restriction base="xs:anyURI">
      <xs:enumeration value="http://www.eori.eu"/>
      <xs:enumeration value="http://www.nalog.by/unn"/>
      <xs:enumeration value="http://www.nalog.ru/rn77/fl/interest/inn"/>
      <xs:enumeration value="http://www.gib.gov.tr"/>
      <xs:enumeration value="http://zakon.rada.gov.ua/laws/show/755-15"/>
    </xs:restriction>
  </xs:simpleType>

  <xs:complexType name="AddressesType">
    <xs:sequence>
      <xs:element name="Address" type="com:AddressType" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>

  <xs:group name="GeneralInformationGroup">
    <xs:sequence>
      <xs:element name="Id" type="act:HaulierIdType"/>
      <xs:element name="OrganisationName" type="com:NameElementType" />
      <xs:element name="AdditionalCodes" type="com:CodesType" minOccurs="0" />
      <xs:element name="OtherOrganisationName" type="com:LocalisedNameElementType" minOccurs="0" maxOccurs="unbounded" />
      <xs:element name="CompanyTypeCode" type="com:CodeType" minOccurs="0"/>
      <xs:element name="NationalityType" type="NationalityTypeType" minOccurs="0"/>
      <xs:element name="OwnershipTypeCode" type="com:CodeType" minOccurs="0"/>
      <xs:element name="MembershipTypeCode" type="com:CodeType" minOccurs="0"/>
      <xs:element ref="com:OfficialDocumentReferences" minOccurs="0" />
    </xs:sequence>
  </xs:group>

  <xs:complexType name="GeneralInformationType">
    <xs:sequence>
      <xs:group ref="GeneralInformationGroup"/>
    </xs:sequence>
  </xs:complexType>

  <xs:simpleType name="NationalityTypeType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NATIONAL" />
      <xs:enumeration value="FOREIGN" />
      <xs:enumeration value="JOINT_VENTURE" />
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="TypeCodeTypeValueType">
    <xs:restriction base="xs:string">

```

```

<xs:enumeration value="http://www.asktirweb.org/haulier/ownership/type"/>
<xs:enumeration value="http://www.asktirweb.org/haulier/company/type"/>
<xs:enumeration value="http://www.asktirweb.org/haulier/membership/type"/>
<xs:enumeration value="http://www.asktirweb.org/haulier/official-document/type#international-licence"/>
<xs:enumeration value="http://www.asktirweb.org/haulier/official-document/type#registration"/>
</xs:restriction>
</xs:simpleType>

<xs:group name="LocationsGroup">
  <xs:sequence>
    <xs:element name="LegalLocation" type="com:LocationType" />
    <xs:element name="OtherLocations" type="com:LocationsType" minOccurs="0" />
  </xs:sequence>
</xs:group>

<xs:attributeGroup name="ModificationGroup">
  <xs:attribute name="lastModificationDate" type="xs:dateTime" use="optional" />
</xs:attributeGroup>

<xs:complexType name="HaulierType">
  <xs:complexContent>
    <xs:extension base="GeneralInformationType">
      <xs:sequence>
        <xs:group ref="LocationsGroup"/>
      </xs:sequence>
      <xs:attributeGroup ref="ModificationGroup" />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<!-- Access to TIR -->

<xs:simpleType name="AssociationTIRStatusType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="APPLICANT" />
    <xs:enumeration value="REFUSED" />
    <xs:enumeration value="ADMITTED" />
    <xs:enumeration value="PENDING_SUSP" />
    <xs:enumeration value="TEMP_SUSP" />
    <xs:enumeration value="PERM_SUSP" />
    <xs:enumeration value="INACTIVE" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="CustomsTIRStatusType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="APPLICANT" />
    <xs:enumeration value="AUTHORIZED" />
    <xs:enumeration value="REJECTED" />
    <xs:enumeration value="REVOKED" />
    <xs:enumeration value="TEMP_EXCLUDED" />
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="QuotaType">
  <xs:simpleContent>
    <xs:extension base="xs:nonNegativeInteger">
      <xs:attribute name="remaining" type="xs:integer" use="optional"/>
      <xs:attribute name="multiplier" type="xs:decimal" use="optional"/>
      <!-- <xs:attribute name="computed" type="xs:boolean" use="required"/> -->
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>

<xs:group name="TIRAccessGroup">
  <xs:sequence>
    <xs:element name="AssociationTIRStatus" type="AssociationTIRStatusType" minOccurs="0"/>
    <xs:element name="CustomsTIRStatus" type="CustomsTIRStatusType" minOccurs="0"/>
    <xs:element name="Quota" type="QuotaType" minOccurs="0"/>
  </xs:sequence>
</xs:group>

<xs:complexType name="TIRAccessType">
  <xs:sequence>
    <xs:group ref="TIRAccessGroup"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="TIRHaulierType">
  <xs:complexContent>
    <xs:extension base="GeneralInformationType">
      <xs:sequence>
        <xs:group ref="TIRAccessGroup"/>
        <xs:group ref="LocationsGroup"/>
      </xs:sequence>
      <xs:attributeGroup ref="ModificationGroup" />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:group name="ContactRelationshipGroup">
  <xs:sequence>
    <xs:element name="RoleTypeCode" type="com:CodeType"/>
    <xs:element name="RelationshipPeriod" type="com:PeriodType" />

    <xs:element name="AuthorisationToCollectDocumentReference" type="com:OfficialDocumentReferenceType" minOccurs="0"/>
    <xs:element name="AuthorisationToOrderDocumentReference" type="com:OfficialDocumentReferenceType" minOccurs="0"/>
  </xs:sequence>

```

```

</xs:group>

<xs:complexType name="ContactType">
  <xs:complexContent>
    <xs:extension base="ctt:ContactType">
      <xs:group ref="ContactRelationshipGroup"/>
      <xs:attribute name="ownershipIndicator" type="xs:boolean" use="optional"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="ContactsType">
  <xs:sequence>
    <xs:element name="Contact" type="ContactType" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="ContactRelationshipType">
  <xs:sequence>
    <xs:element name="HaulierId" type="act:HaulierIdType"/>
    <xs:group ref="ContactRelationshipGroup"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ContactRelationshipsType">
  <xs:sequence>
    <xs:element name="ContactRelationship" type="ContactRelationshipType" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="ContactOwnershipType">
  <xs:sequence>
    <xs:element name="HaulierId" type="act:HaulierIdType"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ContactOwnershipsType">
  <xs:sequence>
    <xs:element name="ContactOwnership" type="ContactOwnershipType" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:simpleType name="TIRGuaranteeTypeType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ADMISSION" />
    <xs:enumeration value="HVG" /><!-- historic -->
    <xs:enumeration value="UNRETURNED_TIRCARNET" />
    <xs:enumeration value="CLAIMED_TIRCARNET" />
    <xs:enumeration value="OTHER" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="TIRGuaranteeStatusType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AVAILABLE" />
    <xs:enumeration value="TO_BE_KEPT" />
    <xs:enumeration value="FULLY_FORFEITED" />
    <xs:enumeration value="PARTIALLY_FORFEITED" />
    <xs:enumeration value="RELEASED" />
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="TIRGuaranteeType">
  <xs:sequence>
    <xs:element name="Type" type="TIRGuaranteeTypeType" />
    <xs:element name="FormCode" type="com:CodeType" />
    <xs:element name="FormFinancialOrganisationName" type="com:NameElementType" minOccurs="0"/>
    <xs:element name="Amount" type="acc:AmountType" />
    <xs:element name="Reference" type="com:ReferenceType" minOccurs="0"/>
    <xs:element name="Status" type="TIRGuaranteeStatusType" />
    <xs:element name="StatusDate" type="xs:date" />
    <xs:element name="IssuancePeriod" type="com:PeriodType" minOccurs="0"/>
    <xs:element name="ReleaseDate" type="xs:date" minOccurs="0" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="TIRGuaranteesType">
  <xs:sequence>
    <xs:element name="TIRGuarantee" type="TIRGuaranteeType" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
</xs:schema>

```

7.1.5 Contact

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema version="1.0"
  targetNamespace="http://www.asktirweb.org/model/contact-1" xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns="http://www.asktirweb.org/model/contact-1"
  xmlns:com="http://www.asktirweb.org/model/common-1"
  elementFormDefault="qualified">

  <import namespace="http://www.asktirweb.org/model/common-1" schemaLocation="askw-common-1.xsd"/>

  <xs:complexType name="ContactType">
    <xs:sequence>
      <xs:element name="Name" type="com:PersonNameType" />

```

```

    <xs:element ref="com:OfficialDocumentReferences" minOccurs="0" />
  </xs:sequence>
</xs:complexType>
</xs:schema>

```

7.1.6 Accounting

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema version="1.0"
  targetNamespace="http://www.asktirweb.org/model/accounting-1"
  xmlns="http://www.asktirweb.org/model/accounting-1"
  xmlns:act="http://www.iru.org/model/tir-actor-1"
  xmlns:car="http://www.asktirweb.org/model/tir-carnet-1"
  xmlns:com="http://www.asktirweb.org/model/common-1"
  xmlns:cur="http://www.iru.org/model/iso-4217"
  xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified">

  <xs:import namespace="http://www.iru.org/model/tir-actor-1" schemaLocation="tir-actor-1.xsd"/>
  <xs:import namespace="http://www.iru.org/model/iso-4217" schemaLocation="iso-4217.xsd"/>
  <xs:import namespace="http://www.asktirweb.org/model/tir-carnet-1" schemaLocation="askw-carnet-1.xsd"/>
  <xs:import namespace="http://www.asktirweb.org/model/common-1" schemaLocation="askw-common-1.xsd"/>

  <xs:complexType name="AmountType">
    <xs:simpleContent>
      <xs:extension base="xs:decimal">
        <xs:attribute name="currencyCode" use="optional">
          <xs:annotation>
            <xs:documentation>optional if the currency is defined globally in a document</xs:documentation>
          </xs:annotation>
        </xs:attribute>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>

  <xs:complexType name="AccountType">
    <xs:sequence>
      <xs:element ref="com:Id"/>
      <xs:element name="CurrencyCode" type="cur:CurrencyCodeType" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="HaulierAccount" type="AccountType"/>

  <xs:element name="TransactionEntryReference" type="com:ReferenceType" />
</xs:schema>

```

7.1.7 Invoice

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema version="1.0"
  targetNamespace="http://www.asktirweb.org/model/invoice-1"
  xmlns="http://www.asktirweb.org/model/invoice-1"
  xmlns:act="http://www.iru.org/model/tir-actor-1"
  xmlns:car="http://www.asktirweb.org/model/tir-carnet-1"
  xmlns:com="http://www.asktirweb.org/model/common-1"
  xmlns:acc="http://www.asktirweb.org/model/accounting-1"
  xmlns:item="http://www.asktirweb.org/model/accounting-item-1"
  xmlns:cur="http://www.iru.org/model/iso-4217"
  xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified">

  <xs:import namespace="http://www.iru.org/model/iso-4217" schemaLocation="iso-4217.xsd"/>
  <xs:import namespace="http://www.asktirweb.org/model/common-1" schemaLocation="askw-common-1.xsd"/>
  <xs:import namespace="http://www.asktirweb.org/model/accounting-1" schemaLocation="askw-accounting-1.xsd"/>
  <xs:import namespace="http://www.asktirweb.org/model/accounting-item-1" schemaLocation="askw-accountingitem-1.xsd"/>
  <xs:import namespace="http://www.asktirweb.org/model/tir-carnet-1" schemaLocation="askw-carnet-1.xsd"/>

  <xs:complexType name="InvoiceLineType">
    <xs:sequence>
      <xs:element ref="com:Id" />
      <xs:element name="InvoicedQuantity" type="com:QuantityType"/>
      <xs:element name="DespatchLineReference" type="com:ReferenceType" minOccurs="0"/>
      <xs:element name="Item" type="item:ItemType" />
      <xs:element name="TotalPriceAmount" type="acc:AmountType" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="InvoiceLine" type="InvoiceLineType"/>

  <xs:complexType name="InvoiceType">
    <xs:sequence>
      <xs:element ref="com:Id" />
      <xs:element name="IssueDate" type="xs:date" />
      <xs:element name="DocumentCurrencyCode" type="cur:CurrencyCodeType"/>
      <xs:element name="OrderReference" type="com:ReferenceType"/>
      <xs:element name="DespatchDocumentReference" type="com:ReferenceType"/>
      <xs:element name="SupplierParty" type="com:PartyType"/>
      <xs:element name="CustomerParty" type="com:PartyType"/>
      <xs:element ref="InvoiceLine" minOccurs="1" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="Invoice" type="InvoiceType"/>
</xs:schema>

```

7.1.8 Deposit Order

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema version="1.0"
  targetNamespace="http://www.asktirweb.org/model/deposit-order-1"
  xmlns="http://www.asktirweb.org/model/deposit-order-1"
  xmlns:act="http://www.iru.org/model/tir-actor-1"
  xmlns:car="http://www.asktirweb.org/model/tir-carnet-1"
  xmlns:com="http://www.asktirweb.org/model/common-1"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:ccts="urn:un:unece:uncefact:documentation:2" elementFormDefault="qualified">

  <xs:import namespace="http://www.iru.org/model/tir-actor-1" schemaLocation="tir-actor-1.xsd" />
  <xs:import namespace="http://www.asktirweb.org/model/tir-carnet-1" schemaLocation="askw-carnet-1.xsd" />
  <xs:import namespace="http://www.asktirweb.org/model/common-1" schemaLocation="askw-common-1.xsd"/>

  <xs:element name="CustomerParty" type="com:PartyType"/>
  <xs:element name="SupplierParty" type="com:PartyType"/>
  <xs:element name="Item" type="ItemType"/>
  <xs:element name="ID" type="com:IdType"/>
  <xs:element name="InstructionID" type="com:IdType"/>
  <xs:element name="IssuerParty" type="com:PartyType"/>
  <xs:element name="IssueDate" type="xs:dateTime"/>
  <xs:element name="Order" type="OrderType"/>
  <xs:element name="OrderIssueDateTime" type="xs:dateTime"/>
  <xs:element name="OrderLine" type="OrderLineType"/>
  <xs:element name="OrderResponseCode" type="com:CodeType"/>
  <xs:element name="PaymentID" type="com:IdType"/>
  <xs:element name="PaymentMeans" type="PaymentMeansType"/>
  <xs:element name="PaymentMeansCode" type="com:CodeType"/>
  <xs:element name="Quantity" type="com:QuantityType"/>
  <xs:element name="Note" type="com:NoteType"/>
  <xs:element name="TIRCarnetItem" type="car:TIRCarnetItemType"/>
  <xs:element name="SalesOrderID" type="com:IdType"/>
  <xs:element name="SubLineItem" type="SubLineItemType"/>

  <xs:complexType name="ItemPropertyType">
    <xs:sequence>
      <xs:element name="NameCode" type="com:CodeType" minOccurs="0" maxOccurs="1" />
      <xs:element name="Value" type="xs:string" minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="OrderType">
    <xs:sequence>
      <xs:element ref="ID" minOccurs="1" maxOccurs="1" />
      <xs:element ref="IssueDate" minOccurs="1" maxOccurs="1" />
      <xs:element ref="Note" minOccurs="0" maxOccurs="unbounded" />
      <xs:element ref="CustomerParty" minOccurs="1" maxOccurs="1" />
      <xs:element ref="SupplierParty" minOccurs="1" maxOccurs="1" />
      <xs:element ref="OrderLine" minOccurs="1" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="OrderLineType">
    <xs:sequence>
      <xs:element ref="ID" minOccurs="1" maxOccurs="1" />
      <xs:element ref="SalesOrderID" minOccurs="0" maxOccurs="1" />
      <xs:element ref="Note" minOccurs="0" maxOccurs="unbounded" />
      <xs:element ref="Quantity" minOccurs="0" maxOccurs="1" />
      <xs:element ref="Item" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="PaymentMeansType">
    <xs:sequence>
      <xs:element ref="ID" minOccurs="0" maxOccurs="1" />
      <xs:element ref="PaymentMeansCode" minOccurs="0" maxOccurs="1" />
      <xs:element ref="InstructionID" minOccurs="0" maxOccurs="1" />
      <xs:element ref="PaymentID" minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="ItemType">
    <xs:sequence>
      <xs:element name="StandardItemIdentificationID" type="com:IdType" minOccurs="0" maxOccurs="1" />
      <xs:element name="AdditionalItemProperty" type="ItemPropertyType" minOccurs="0" maxOccurs="unbounded" />
      <xs:element ref="SubLineItem" minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="SubLineItemType">
    <xs:sequence>
      <xs:element ref="TIRCarnetItem" minOccurs="0" maxOccurs="1" />
    </xs:sequence>
  </xs:complexType>

  <xs:simpleType name="PaymentMeansInstructionIDType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="http://www.asktirweb.org/model/deposit-order-1/payment-means-instruction-id#settled"/>
      <xs:enumeration value="http://www.asktirweb.org/model/deposit-order-1/payment-means-instruction-id#sent-for-refund"/>
      <xs:enumeration value="http://www.asktirweb.org/model/deposit-order-1/payment-means-instruction-id#refunded"/>
    </xs:restriction>
  </xs:simpleType>

```

```

<xs:simpleType name="PaymentMeansCodeType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="http://www.asktirweb.org/model/deposit-order-1/payment-means-code"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="PaymentMeansCodeTypeValueType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="http://www.asktirweb.org/model/deposit-order-1/payment-means-code#invoice"/>
    <xs:enumeration value="http://www.asktirweb.org/model/deposit-order-1/payment-means-code#credit-card"/>
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="RejectionNotesType">
  <xs:sequence>
    <xs:element name="RejectionNote" type="xs:string"
      maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="OrderSimpleResponseType">
  <xs:sequence>
    <xs:element ref="ID" minOccurs="1" />
    <xs:element ref="SalesOrderID" minOccurs="1" />
    <xs:element ref="IssueDate" minOccurs="1" />
    <xs:element ref="Note" minOccurs="0" maxOccurs="unbounded" />
    <xs:element name="AcceptedIndicator" type="xs:boolean" />
    <xs:element name="RejectionNotes" type="RejectionNotesType" minOccurs="0" />
    <xs:element ref="CustomerParty" minOccurs="1" />
    <xs:element ref="SupplierParty" minOccurs="1" />
    <xs:element ref="PaymentMeans" minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:simpleType name="OrderResponseCodeListURIType">
  <xs:restriction base="xs:anyURI">
    <xs:enumeration value="http://www.asktirweb.org/model/deposit-order-1/order-response-code"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="OrderResponseCodeTypeType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="http://www.asktirweb.org/model/deposit-order-1/order-response-code#rejected"/>
    <xs:enumeration value="http://www.asktirweb.org/model/deposit-order-1/order-response-code#accepted"/>
    <xs:enumeration value="http://www.asktirweb.org/model/deposit-order-1/order-response-code#cancelled"/>
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="OrderResponseType">
  <xs:sequence>
    <xs:element ref="ID" minOccurs="1" />
    <xs:element ref="SalesOrderID" minOccurs="1" />
    <xs:element ref="IssueDate" minOccurs="1" />
    <xs:element ref="Note" minOccurs="0" maxOccurs="unbounded" />
    <xs:element name="OrderResponseCode" type="com:CodeType" />
    <xs:element ref="CustomerParty" minOccurs="1" />
    <xs:element ref="SupplierParty" minOccurs="1" />
    <xs:element ref="PaymentMeans" minOccurs="0" maxOccurs="unbounded" />
    <xs:element ref="OrderLine" minOccurs="1" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
</xs:schema>

```

7.1.9 Accounting Item

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema version="1.0"
  targetNamespace="http://www.asktirweb.org/model/accounting-item-1"
  xmlns="http://www.asktirweb.org/model/accounting-item-1"
  xmlns:car="http://www.asktirweb.org/model/tir-carnet-1"
  xmlns:com="http://www.asktirweb.org/model/common-1"
  xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified">

  <xs:import namespace="http://www.asktirweb.org/model/tir-carnet-1" schemaLocation="askw-carnet-1.xsd"/>
  <xs:import namespace="http://www.asktirweb.org/model/common-1" schemaLocation="askw-common-1.xsd"/>

  <xs:simpleType name="NonTIRCarnetItemCodeType">
    <xs:restriction base="xs:anyURI">
      <xs:enumeration value="http://wineur.git.ch/invoicing/item-code" />
    </xs:restriction>
  </xs:simpleType>

  <xs:complexType name="NonTIRCarnetItemType">
    <xs:sequence>
      <xs:element name="Code" type="com:CodeType" />
      <xs:element name="Description" type="xs:string" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="ItemType">
    <xs:choice>
      <xs:element ref="car:TIRCarnetItem" />
      <xs:element name="OtherItem" type="NonTIRCarnetItemType"/>
    </xs:choice>
  </xs:complexType>

```

```

</xs:choice>
</xs:complexType>

</xs:schema>

```

Currently, the only Code type allowed for the OtherItem in an Invoice is:

<http://wineur.git.ch/invoicing/item-code>

and the possible values are:

Value	Description
FR_PACKAGING	Participation Secure Packaging Charges
FR_PALETTES	Deposit on IRU palets
FR_SURCHARGE	Surcharge TIR participation
FR_TIREXB	TirExB - TIR Secretariat Cost
FR_TRANSP INSUR	Transport insurance charges
FR_TRANSPORT	Transport charges
FR_TRANSP-RET	Transport return charges

7.1.10 Carnet Movement

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema version="1.0"
  targetNamespace="http://www.asktirweb.org/model/carnet-movement-1" xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns="http://www.asktirweb.org/model/carnet-movement-1"
  xmlns:act="http://www.iru.org/model/tir-actor-1"
  xmlns:car="http://www.asktirweb.org/model/tir-carnet-1"
  xmlns:com="http://www.asktirweb.org/model/common-1"
  elementFormDefault="qualified">

  <xs:import namespace="http://www.iru.org/model/tir-actor-1" schemaLocation="tir-actor-1.xsd"/>
  <xs:import namespace="http://www.asktirweb.org/model/tir-carnet-1" schemaLocation="askw-carnet-1.xsd"/>
  <xs:import namespace="http://www.asktirweb.org/model/common-1" schemaLocation="askw-common-1.xsd"/>

  <xs:complexType name="TIRCarnetMovementLineType" abstract="true">
    <xs:sequence>
      <xs:element ref="com:Id" />
      <xs:element name="Quantity" type="com:QuantityType" />
      <xs:element ref="car:TIRCarnetItem" /><!-- TIRCarnetRangeInstance must be present -->
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="TIRCarnetReceiptLineType">
    <xs:complexContent>
      <xs:extension base="TIRCarnetMovementLineType"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="TIRCarnetReceiptLine" type="TIRCarnetReceiptLineType"/>

  <xs:complexType name="TIRCarnetReceiptLineChangeType">
    <xs:complexContent>
      <xs:extension base="TIRCarnetMovementLineType"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="TIRCarnetReceiptLineChange" type="TIRCarnetReceiptLineChangeType"/>

  <xs:complexType name="TIRCarnetDespatchLineType">
    <xs:complexContent>
      <xs:extension base="TIRCarnetMovementLineType"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="TIRCarnetDespatchLine" type="TIRCarnetDespatchLineType"/>

  <xs:complexType name="TIRCarnetMovementAdviceType" abstract="true">
    <xs:sequence>
      <xs:element ref="com:Id" />
      <xs:element name="IssueDate" type="xs:dateTime" />
      <xs:element name="Reference" type="com:ReferenceType" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="DespatchParty" type="com:PartyType"/>
      <xs:element name="DeliveryParty" type="com:PartyType"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="TIRCarnetDespatchAdviceType">
    <xs:complexContent>
      <xs:extension base="TIRCarnetMovementAdviceType">
        <xs:sequence>
          <xs:element ref="TIRCarnetDespatchLine" maxOccurs="unbounded" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="TIRCarnetDespatchAdvice" type="TIRCarnetDespatchAdviceType"/>

  <xs:complexType name="TIRCarnetReceiptAdviceType">

```

```

<xs:complexContent>
  <xs:extension base="TIRCarnetMovementAdviceType">
    <xs:sequence>
      <xs:element ref="TIRCarnetReceiptLine" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="TIRCarnetReceiptAdvice" type="TIRCarnetReceiptAdviceType"/>

<xs:complexType name="TIRCarnetReceiptAdviceChangeType" >
  <xs:sequence>
    <xs:element ref="com:Id" />
    <xs:element name="IssueDate" type="xs:dateTime" />
    <xs:element name="Reference" type="com:ReferenceType" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="DespatchParty" type="com:PartyType"/>
    <xs:element ref="TIRCarnetReceiptLineChange" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
<xs:element name="TIRCarnetReceiptAdviceChange" type="TIRCarnetReceiptAdviceChangeType"/>
</xs:schema>

```

7.1.11 Vehicle

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema version="1.0"
  targetNamespace="http://www.asktirweb.org/model/vehicle-1" xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns="http://www.asktirweb.org/model/vehicle-1"
  xmlns:com="http://www.asktirweb.org/model/common-1"
  elementFormDefault="qualified">

  <xs:import namespace="http://www.asktirweb.org/model/common-1" schemaLocation="askw-common-1.xsd"/>

  <xs:element name="Certificate" type="com:OfficialDocumentReferenceType"/>

  <xs:complexType name="CertificatesType">
    <xs:sequence>
      <xs:element ref="Certificate" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>

  <xs:simpleType name="VehicleIdentificationNumberType">
    <xs:restriction base="xs:string">
      <xs:length value="17"/>
    </xs:restriction>
  </xs:simpleType>

  <xs:element name="VehicleIdentificationNumber" type="VehicleIdentificationNumberType"/>
  <xs:element name="ChassisNumber" substitutionGroup="VehicleIdentificationNumber"/>

  <xs:simpleType name="MakeType">
    <xs:restriction base="xs:string"/>
  </xs:simpleType>

  <xs:complexType name="VehicleTypeType">
    <xs:sequence>
      <xs:element name="TypeCode" type="com:CodeType" minOccurs="0" />
      <xs:element name="SubtypeCode" type="com:CodeType" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="VehicleGuaranteeType">
    <xs:sequence>
      <xs:element name="Form" type="com:CodeType" minOccurs="0" />
      <xs:element name="ValidityPeriod" type="com:PeriodType" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>

  <xs:group name="VehicleQuotaGroup">
    <xs:sequence>
      <xs:element name="InQuota" type="xs:boolean" minOccurs="0"/>
      <xs:element name="CarnetAllowance" type="xs:unsignedShort" minOccurs="0"/>
      <xs:element name="ComputedCarnetAllowance" type="xs:unsignedShort" minOccurs="0"/>
      <xs:element name="ActiveToday" type="xs:boolean" minOccurs="0"/>
    </xs:sequence>
  </xs:group>

  <xs:group name="VehicleAdditionalInformationGroup">
    <xs:sequence>
      <xs:element name="Certificates" type="CertificatesType" minOccurs="0"/>
      <xs:element name="Guarantee" type="VehicleGuaranteeType" minOccurs="0" />
    </xs:sequence>
  </xs:group>

  <xs:complexType name="VehicleGeneralInformationType">
    <xs:sequence>
      <xs:element name="Type" type="VehicleTypeType" />
      <xs:element name="Make" type="MakeType" minOccurs="0" />
      <xs:element name="Model" type="xs:string" minOccurs="0" />
      <xs:element name="ManufactureDate" type="xs:string" minOccurs="0"/><!-- no xs:date, to allow incomplete data (just year, etc.) -->
      <xs:element ref="VehicleIdentificationNumber" minOccurs="0"/>
      <xs:element name="CompartmentTypeCode" type="com:CodeType" minOccurs="0" />
      <xs:element name="PayloadWeightMeasure" type="com:MeasureType" minOccurs="0"/>
      <xs:element name="PayloadVolumeMeasure" type="com:MeasureType" minOccurs="0"/>
      <xs:element name="RegistrationNumber" type="com:OfficialDocumentReferenceType" />
      <xs:element name="ContractualRelationship" type="com:ContractualRelationshipType" />
    </xs:sequence>
  </xs:complexType>

```

```

</xs:sequence>
</xs:complexType>

<xs:complexType name="VehicleType">
  <xs:complexContent>
    <xs:extension base="VehicleGeneralInformationType">
      <xs:sequence>
        <xs:group ref="VehicleQuotaGroup"/>
        <xs:group ref="VehicleAdditionalInformationGroup"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:simpleType name="ContractualRelationshipTypeType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="LEASE"/>
    <xs:enumeration value="OWNERSHIP"/>
    <xs:enumeration value="RENTAL"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="TypeCodeTypeValueType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="http://www.asktirweb.org/vehicle/type"/>
    <xs:enumeration value="http://www.asktirweb.org/vehicle/subtype"/>
    <xs:enumeration value="http://www.asktirweb.org/vehicle/compartment/type"/>
    <xs:enumeration value="http://www.asktirweb.org/vehicle/registration-number"/>
  </xs:restriction>
</xs:simpleType>
</xs:schema>

```

7.2 IRU schemas

7.2.1 TIR Actor

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
  targetNamespace="http://www.iru.org/model/tir-actor-1"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns="http://www.iru.org/model/tir-actor-1"
  xmlns:icc="http://www.iru.org/model/iso-3166-1-alpha-3">

  <import namespace="http://www.iru.org/model/iso-3166-1-alpha-3" schemaLocation="iso-3166-1-alpha-3.xsd"/>

  <xs:element name="IRU">
    <xs:complexType/>
  </xs:element>

  <xs:element name="Association">
    <xs:complexType>
      <xs:attribute name="id" type="xs:unsignedInt" use="required"/>
      <xs:attribute name="name" type="xs:string" use="optional"/>
    </xs:complexType>
  </xs:element>

  <xs:simpleType name="HaulierIdType">
    <xs:restriction base="xs:string">
      <xs:pattern value="[A-Z]{3}/[0-9]+/[0-9]+"/>
    </xs:restriction>
  </xs:simpleType>

  <xs:complexType name="HaulierType">
    <xs:attribute name="id" type="HaulierIdType" use="required"/>
    <xs:attribute name="name" type="xs:string" use="optional"/>
  </xs:complexType>

  <xs:element name="Haulier" type="HaulierType"/>
  <xs:element name="Holder" type="HaulierType"/>

  <xs:complexType name="GuaranteeChainPartyType">
    <xs:choice>
      <xs:element ref="IRU"/>
      <xs:element ref="Association"/>
      <xs:element ref="Haulier"/>
    </xs:choice>
  </xs:complexType>

  <xs:element name="Customs">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="CountryCode" type="icc:CountryCodeType"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>

```

7.2.2 IRU Guarantee

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://www.iru.org/model/guarantee-1"
xmlns="http://www.iru.org/model/guarantee-1"
xmlns:ccts="urn:un:unece:uncefact:documentation:2"
xmlns:xs="http://www.w3.org/2001/XMLSchema">

<xs:simpleType name="GuaranteeNumberType">
  <xs:restriction base="xs:token">
    <xs:pattern value="[A-Z]{0,2}[0-9]+" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="LegalFrameworkType">
  <xs:restriction base="xs:anyURI"/>
</xs:simpleType>

<xs:simpleType name="LegalFrameworkTypeType">
  <xs:restriction base="LegalFrameworkType">
    <xs:enumeration value="http://www.unece.org/tir/tirconv/conv75.html"/>
    <xs:enumeration value="http://www.iru.org/trade-facilitation/icarnet"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="UsageRuleType">
  <xs:restriction base="xs:anyURI"/>
</xs:simpleType>

<xs:simpleType name="UsageRuleTypeType">
  <xs:restriction base="UsageRuleType">
    <xs:enumeration value="http://www.iru.org/model/guarantee-1/volet#4"/>
    <xs:enumeration value="http://www.iru.org/model/guarantee-1/volet#6"/>
    <xs:enumeration value="http://www.iru.org/model/guarantee-1/volet#14"/>
    <xs:enumeration value="http://www.iru.org/model/guarantee-1/volet#20"/>
    <xs:enumeration value="http://www.iru.org/model/association/deed-of-engagement#pilot-addendum"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="UsageRuleSetType">
  <xs:restriction base="xs:anyURI"/>
</xs:simpleType>

<xs:simpleType name="UsageRuleSetTypeType">
  <xs:restriction base="UsageRuleSetType">
    <xs:enumeration value="http://www.iru.org/model/guarantee-1/usage-rule-set#4"/>
    <xs:enumeration value="http://www.iru.org/model/guarantee-1/usage-rule-set#6"/>
    <xs:enumeration value="http://www.iru.org/model/guarantee-1/usage-rule-set#6-pilot"/>
    <xs:enumeration value="http://www.iru.org/model/guarantee-1/usage-rule-set#14"/>
    <xs:enumeration value="http://www.iru.org/model/guarantee-1/usage-rule-set#20"/>
    <!-- <xs:enumeration value="http://www.iru.org/model/guarantee-1/usage-rule-set#"/> -->
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="GuaranteeFormatType">
  <xs:restriction base="xs:anyURI"/>
</xs:simpleType>

<xs:simpleType name="GuaranteeFormatTypeType">
  <xs:restriction base="GuaranteeFormatType">
    <xs:enumeration value="http://www.iru.org/model/guarantee-1/format#paper"/>
    <xs:enumeration value="http://www.iru.org/model/guarantee-1/format#electronic"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="GuaranteeValidityPeriodType">
  <xs:restriction base="xs:anyURI"/>
</xs:simpleType>

<xs:simpleType name="GuaranteeValidityPeriodTypeType">
  <xs:restriction base="GuaranteeValidityPeriodType">
    <xs:enumeration value="http://www.iru.org/model/guarantee-1/validity-period?duration="/>
    <xs:enumeration value="http://www.iru.org/model/guarantee-1/validity-period?final-date="/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="GuaranteeMonetaryLimitType">
  <xs:restriction base="xs:anyURI"/>
</xs:simpleType>

<xs:simpleType name="GuaranteeMonetaryLimitTypeType">
  <xs:restriction base="GuaranteeMonetaryLimitType">
    <xs:enumeration value="http://www.iru.org/model/guarantee-1/monetary-limit?value=&currency="/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ItemPropertyCodeType">
  <xs:restriction base="xs:anyURI"/>
</xs:simpleType>

<xs:simpleType name="ItemPropertyCodeTypeType">
  <xs:restriction base="ItemPropertyCodeType">
    <xs:enumeration value="http://www.iru.org/model/guarantee-1/legal-framework"/>
    <xs:enumeration value="http://www.iru.org/model/guarantee-1/usage-rule-set"/>
    <xs:enumeration value="http://www.iru.org/model/guarantee-1/format"/>
    <xs:enumeration value="http://www.iru.org/model/guarantee-1/validity-period"/>
    <xs:enumeration value="http://www.iru.org/model/guarantee-1/monetary-limit"/>
  </xs:restriction>
</xs:simpleType>

```

```

</xs:restriction>
</xs:simpleType>

<xs:complexType name="ItemType">
  <xs:annotation>
    <xs:documentation>
      <ccts:Component>
        <ccts:ComponentType>ABIE</ccts:ComponentType>
        <ccts:DictionaryEntryName>Item. Details</ccts:DictionaryEntryName>
        <ccts:Definition>Information directly relating to an item.</ccts:Definition>
        <ccts:ObjectClass>Item</ccts:ObjectClass>
        <ccts:AlternativeBusinessTerms>article, product, goods item</ccts:AlternativeBusinessTerms>
      </ccts:Component>
    </xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="SellersItemIdentification" type="ItemIdentificationType" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>
          <ccts:Component>
            <ccts:ComponentType>ASBIE</ccts:ComponentType>
            <ccts:DictionaryEntryName>Item. Sellers_ Item Identification. Item Identification</ccts:DictionaryEntryName>
            <ccts:Definition>Associates the item with its identification according to the IRU accounting system.</ccts:Definition>
            <ccts:Cardinality>0..1</ccts:Cardinality>
            <ccts:ObjectClass>Item</ccts:ObjectClass>
            <ccts:PropertyTermQualifier>Sellers</ccts:PropertyTermQualifier>
            <ccts:PropertyTerm>Item Identification</ccts:PropertyTerm>
            <ccts:AssociatedObjectClass>Item Identification</ccts:AssociatedObjectClass>
          </ccts:Component>
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="StandardItemIdentification" type="ItemIdentificationType" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>
          <ccts:Component>
            <ccts:ComponentType>ASBIE</ccts:ComponentType>
            <ccts:DictionaryEntryName>Item. Standard_ Item Identification. Item Identification</ccts:DictionaryEntryName>
            <ccts:Definition>Associates the item with its identification according to a standard system (based on the properties).</ccts:Definition>
            <ccts:Cardinality>0..1</ccts:Cardinality>
            <ccts:ObjectClass>Item</ccts:ObjectClass>
            <ccts:PropertyTermQualifier>Standard</ccts:PropertyTermQualifier>
            <ccts:PropertyTerm>Item Identification</ccts:PropertyTerm>
            <ccts:AssociatedObjectClass>Item Identification</ccts:AssociatedObjectClass>
          </ccts:Component>
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="AdditionalItemProperty" type="ItemPropertyType" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>
          <ccts:Component>
            <ccts:ComponentType>ASBIE</ccts:ComponentType>
            <ccts:DictionaryEntryName>Item. Additional_ Item Property. Item Property</ccts:DictionaryEntryName>
            <ccts:Definition>Associates the item with a set of additional properties.</ccts:Definition>
            <ccts:Cardinality>0..n</ccts:Cardinality>
            <ccts:ObjectClass>Item</ccts:ObjectClass>
            <ccts:PropertyTermQualifier>Additional</ccts:PropertyTermQualifier>
            <ccts:PropertyTerm>Item Property</ccts:PropertyTerm>
            <ccts:AssociatedObjectClass>Item Property</ccts:AssociatedObjectClass>
          </ccts:Component>
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="ItemInstance" type="ItemInstanceType" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>
          <ccts:Component>
            <ccts:ComponentType>ASBIE</ccts:ComponentType>
            <ccts:DictionaryEntryName>Item. Item Instance</ccts:DictionaryEntryName>
            <ccts:Definition>An association to Item Instance.</ccts:Definition>
            <ccts:Cardinality>0..n</ccts:Cardinality>
            <ccts:ObjectClass>Item</ccts:ObjectClass>
            <ccts:PropertyTerm>Item Instance</ccts:PropertyTerm>
            <ccts:AssociatedObjectClass>Item Instance</ccts:AssociatedObjectClass>
          </ccts:Component>
        </xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="ItemIdentificationType">
  <xs:annotation>
    <xs:documentation>
      <ccts:Component>
        <ccts:ComponentType>ABIE</ccts:ComponentType>
        <ccts:DictionaryEntryName>Item Identification. Details</ccts:DictionaryEntryName>
        <ccts:Definition>Information about item identification.</ccts:Definition>
        <ccts:ObjectClass>Item Identification</ccts:ObjectClass>
      </ccts:Component>
    </xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="ID" type="xs:string" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>

```

```

<ccts:Component>
  <ccts:ComponentType>BBIE</ccts:ComponentType>
  <ccts:DictionaryEntryName>Item Identification. Identifier</ccts:DictionaryEntryName>
  <ccts:Definition>An identifier for an item.</ccts:Definition>
  <ccts:Cardinality>1</ccts:Cardinality>
  <ccts:ObjectClass>Item Identification</ccts:ObjectClass>
  <ccts:PropertyTerm>Identifier</ccts:PropertyTerm>
  <ccts:RepresentationTerm>Identifier</ccts:RepresentationTerm>
  <ccts:DataType>Identifier. Type</ccts:DataType>
  <ccts:Examples>CUST001 3333-44-123</ccts:Examples>
</ccts:Component>
</xs:documentation>
</xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>

<xs:complexType name="ItemPropertyType">
  <xs:annotation>
    <xs:documentation>
      <ccts:Component>
        <ccts:ComponentType>ABIE</ccts:ComponentType>
        <ccts:DictionaryEntryName>Item Property. Details</ccts:DictionaryEntryName>
        <ccts:Definition>Information about specific Item Properties.</ccts:Definition>
        <ccts:ObjectClass>Item Property</ccts:ObjectClass>
      </ccts:Component>
    </xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="NameCode" type="ItemPropertyCodeType" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>
          <ccts:Component>
            <ccts:ComponentType>BBIE</ccts:ComponentType>
            <ccts:DictionaryEntryName>Item Property. Name Code. Code</ccts:DictionaryEntryName>
            <ccts:Definition>The name of the Item Property expressed as code.</ccts:Definition>
            <ccts:Cardinality>0..1</ccts:Cardinality>
            <ccts:ObjectClass>Item Property</ccts:ObjectClass>
            <ccts:PropertyTerm>Name Code</ccts:PropertyTerm>
            <ccts:RepresentationTerm>Code</ccts:RepresentationTerm>
            <ccts:DataType>Code. Type</ccts:DataType>
          </ccts:Component>
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Value" type="xs:anyURI" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>
          <ccts:Component>
            <ccts:ComponentType>BBIE</ccts:ComponentType>
            <ccts:DictionaryEntryName>Item Property. Value. Text</ccts:DictionaryEntryName>
            <ccts:Definition>The Item Property value expressed as a text.</ccts:Definition>
            <ccts:Cardinality>0..n</ccts:Cardinality>
            <ccts:ObjectClass>Item Property</ccts:ObjectClass>
            <ccts:PropertyTerm>Value</ccts:PropertyTerm>
            <ccts:RepresentationTerm>Text</ccts:RepresentationTerm>
            <ccts:DataType>Text. Type</ccts:DataType>
            <ccts:Examples>100 watts , 15 European , 20% +/- 5%</ccts:Examples>
          </ccts:Component>
        </xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="ItemInstanceType">
  <xs:annotation>
    <xs:documentation>
      <ccts:Component>
        <ccts:ComponentType>ABIE</ccts:ComponentType>
        <ccts:DictionaryEntryName>Item Instance. Details</ccts:DictionaryEntryName>
        <ccts:Definition>Information about a specific instance of an item.</ccts:Definition>
        <ccts:ObjectClass>Item Instance</ccts:ObjectClass>
      </ccts:Component>
    </xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="ProductTraceID" type="GuaranteeNumberType" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>
          <ccts:Component>
            <ccts:ComponentType>BBIE</ccts:ComponentType>
            <ccts:DictionaryEntryName>Item Instance. Product Trace_ Identifier. Identifier</ccts:DictionaryEntryName>
            <ccts:Definition>An identifier used for tracing the item, such as the EPC number used in RFID.</ccts:Definition>
            <ccts:Cardinality>0..1</ccts:Cardinality>
            <ccts:ObjectClass>Item Instance</ccts:ObjectClass>
            <ccts:PropertyTermQualifier>Product Trace</ccts:PropertyTermQualifier>
            <ccts:PropertyTerm>Identifier</ccts:PropertyTerm>
            <ccts:RepresentationTerm>Identifier</ccts:RepresentationTerm>
            <ccts:DataType>Identifier. Type</ccts:DataType>
          </ccts:Component>
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="ManufactureDateTime" type="xs:dateTime" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>
          <ccts:Component>
            <ccts:ComponentType>BBIE</ccts:ComponentType>

```

```

    <ccts:DictionaryEntryName>Item Instance. Manufacture Date Time. Date Time</ccts:DictionaryEntryName>
    <ccts:Definition>The date and time of manufacture of the Item Instance.</ccts:Definition>
    <ccts:Cardinality>0..1</ccts:Cardinality>
    <ccts:ObjectClass>Item Instance</ccts:ObjectClass>
    <ccts:PropertyTerm>Manufacture Date Time</ccts:PropertyTerm>
    <ccts:RepresentationTerm>Date Time</ccts:RepresentationTerm>
    <ccts:DataType>Date Time. Type</ccts:DataType>
  </ccts:Component>
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="AdditionalItemProperty" type="ItemPropertyType" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>
      <ccts:Component>
        <ccts:ComponentType>ASBIE</ccts:ComponentType>
        <ccts:DictionaryEntryName>Item. Additional_ Item Property. Item Property</ccts:DictionaryEntryName>
        <ccts:Definition>Associates the item with a set of additional properties.</ccts:Definition>
        <ccts:Cardinality>0..n</ccts:Cardinality>
        <ccts:ObjectClass>Item</ccts:ObjectClass>
        <ccts:PropertyTermQualifier>Additional</ccts:PropertyTermQualifier>
        <ccts:PropertyTerm>Item Property</ccts:PropertyTerm>
        <ccts:AssociatedObjectClass>Item Property</ccts:AssociatedObjectClass>
      </ccts:Component>
    </xs:documentation>
  </xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:schema>

```

7.2.3 TIR Carnet

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
  targetNamespace="http://www.iru.org/model/tir-carnet-1"
  xmlns="http://www.iru.org/model/tir-carnet-1"
  xmlns:g="http://www.iru.org/model/guarantee-1"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <xs:import namespace="http://www.iru.org/model/guarantee-1" schemaLocation="iru-guarantee-1.xsd"/>

  <xs:simpleType name="TIRCarnetNumberType">
    <xs:restriction base="g:GuaranteeNumberType"/>
  </xs:simpleType>

  <xs:simpleType name="VoletPageNumberType">
    <xs:restriction base="xs:unsignedByte">
      <xs:minInclusive value="1"/>
      <xs:maxInclusive value="20"/>
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="VoletCountType">
    <xs:restriction base="xs:unsignedByte">
      <xs:enumeration value="4"/>
      <xs:enumeration value="6"/>
      <xs:enumeration value="14"/>
      <xs:enumeration value="20"/>
    </xs:restriction>
  </xs:simpleType>
</xs:schema>

```

7.2.4 RTS Carnet

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
  targetNamespace="http://rts.iru.org/model/carnet-1" xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:act="http://www.iru.org/model/tir-actor-1"
  xmlns:car="http://www.iru.org/model/tir-carnet-1"
  xmlns:vou="http://www.tirplus.net/model/voucher-1"
  xmlns="http://rts.iru.org/model/carnet-1">

  <xs:import schemaLocation="tir-actor-1.xsd" namespace="http://www.iru.org/model/tir-actor-1" />
  <xs:import schemaLocation="tir-carnet-1.xsd" namespace="http://www.iru.org/model/tir-carnet-1" />

  <xs:import schemaLocation="tirplus-voucher-1.xsd" namespace="http://www.tirplus.net/model/voucher-1" />

  <xs:element name="TIRCarnetNumber" type="car:TIRCarnetNumberType"/>

  <xs:simpleType name="VoletPageNumberType">
    <xs:restriction base="car:VoletPageNumberType">
      <xs:enumeration value="2"/>
      <xs:enumeration value="4"/>
      <xs:enumeration value="6"/>
      <xs:enumeration value="8"/>
      <xs:enumeration value="10"/>
      <xs:enumeration value="12"/>
      <xs:enumeration value="14"/>
      <xs:enumeration value="16"/>
      <xs:enumeration value="18"/>
    </xs:restriction>
  </xs:simpleType>

```

```

    <xs:enumeration value="20"/>
  </xs:restriction>
</xs:simpleType>

<xs:element name="VoletPageNumber" type="VoletPageNumberType"/>

<xs:complexType name="CarnetBaseType">
  <xs:sequence>
    <xs:element ref="TIRCarnetNumber"/>
    <xs:element name="ExpiryDate" type="xs:date" />
    <xs:element minOccurs="0" ref="act:Association" />
    <xs:element minOccurs="0" ref="act:Holder" />
  </xs:sequence>
</xs:complexType>

<xs:simpleType name="CarnetStatusType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ISSUED_TO_ASSOCIATION" />
    <xs:enumeration value="ISSUED_TO_HAULIER" />
    <xs:enumeration value="RETURNED_TO_ASSOCIATION" />
    <xs:enumeration value="RETURNED_TO_IRU" />
    <xs:enumeration value="STOPPED" />
    <xs:enumeration value="INCORRECT_NUMBER" />
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="CarnetType">
  <xs:complexContent>
    <xs:extension base="CarnetBaseType">
      <xs:sequence>
        <xs:element name="Status" type="CarnetStatusType"/>
        <xs:element name="TIROperationTerminations">
          <xs:complexType>
            <xs:attribute name="count" type="xs:unsignedInt" use="required"/>
            <xs:attribute name="hasFinal" type="xs:boolean" use="required"/>
          </xs:complexType>
        </xs:element>
        <xs:element name="VoucherNumber" type="vou:VoucherNumberType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:simpleType name="InvalidationStatusType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="DESTROYED" />
    <xs:enumeration value="LOST" />
    <xs:enumeration value="STOLEN" />
    <xs:enumeration value="RETAINED" />
    <xs:enumeration value="EXCLUDED" />
    <xs:enumeration value="INVALIDATED" />
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="StoppedCarnetType">
  <xs:complexContent>
    <xs:extension base="CarnetBaseType">
      <xs:sequence>
        <xs:element name="DeclarationDate" type="xs:date" />
        <xs:element name="InvalidationDate" type="xs:dateTime" />
        <xs:element name="InvalidationStatus" type="InvalidationStatusType" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
</xs:schema>

```

7.2.5 RTS Termination

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
  targetNamespace="http://rts.iru.org/model/termination-1"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns="http://rts.iru.org/model/termination-1"
  xmlns:act="http://www.iru.org/model/tir-actor-1"
  xmlns:car="http://rts.iru.org/model/carnet-1">

  <xs:import schemaLocation="rts-carnet-1.xsd" namespace="http://rts.iru.org/model/carnet-1" />
  <xs:import schemaLocation="tir-actor-1.xsd" namespace="http://www.iru.org/model/tir-actor-1" />

  <xs:group name="CustomsLedgerEntryGroup">
    <xs:sequence>
      <xs:element name="CustomsLedgerEntryReference">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:minLength value="1" />
            <xs:maxLength value="255" />
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="CustomsLedgerEntryDate" type="xs:dateTime" />
    </xs:sequence>
  </xs:group>

```

```

<xs:group name="CertificateOfTerminationGroup">
  <xs:sequence>
    <xs:element name="CertificateOfTerminationReference">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:minLength value="1" />
          <xs:maxLength value="255" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="CertificateOfTerminationDate" type="xs:dateTime" />
  </xs:sequence>
</xs:group>

<xs:complexType name="TIROperationTerminationType">
  <xs:sequence>
    <xs:element ref="car:TIRCarnetNumber" />
    <xs:element ref="car:VoletPageNumber" minOccurs="0"/>

    <xs:element ref="act:Customs" />
    <xs:element name="CustomsOffice">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:minLength value="1" />
          <xs:maxLength value="255" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>

    <xs:group ref="CustomsLedgerEntryGroup" minOccurs="0"/>
    <xs:group ref="CertificateOfTerminationGroup" minOccurs="0"/>

    <xs:choice>
      <xs:element name="IsBeforeLoad" type="xs:boolean" fixed="true"/>
      <xs:element name="IsExit" type="xs:boolean" fixed="true"/>
      <xs:element name="IsFinal" type="xs:boolean" />
    </xs:choice>
    <xs:element name="SequenceNumber" type="xs:unsignedByte" minOccurs="0"/>
    <xs:element name="IsWithReservation" type="xs:boolean" />
    <xs:element name="CustomsComment" minOccurs="0">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="126" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="PackageCount" type="xs:unsignedInt" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:element name="NewTIROperationTermination" type="TIROperationTerminationType"/>
<xs:element name="CancelledTIROperationTermination" type="TIROperationTerminationType"/>

<xs:complexType name="UpdatedTIROperationTerminationType">
  <xs:sequence>
    <xs:element ref="CancelledTIROperationTermination"/>
    <xs:element ref="NewTIROperationTermination"/>
  </xs:sequence>
</xs:complexType>

<xs:element name="UpdatedTIROperationTermination" type="UpdatedTIROperationTerminationType" />

<xs:complexType name="TIROperationTerminationsType">
  <xs:sequence maxOccurs="unbounded">
    <xs:choice>
      <xs:element ref="NewTIROperationTermination" />
      <xs:element ref="CancelledTIROperationTermination" />
      <xs:element ref="UpdatedTIROperationTermination" />
    </xs:choice>
  </xs:sequence>
  <xs:attribute name="count" type="xs:unsignedInt" />
</xs:complexType>

<xs:element name="TIROperationTerminations" type="TIROperationTerminationsType"/>

<xs:complexType name="MissingTIROperationTerminationType">
  <xs:sequence>
    <xs:element ref="car:TIRCarnetNumber" />
    <xs:element ref="car:VoletPageNumber" minOccurs="0"/>
    <xs:element ref="act:Customs" />

    <xs:element name="CustomsOffice" minOccurs="0">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:minLength value="1" />
          <xs:maxLength value="255" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>

    <xs:group ref="CustomsLedgerEntryGroup" minOccurs="0"/>
    <xs:group ref="CertificateOfTerminationGroup" minOccurs="0"/>

    <xs:choice minOccurs="0">
      <xs:element name="IsBeforeLoad" type="xs:boolean" fixed="true"/>
      <xs:element name="IsExit" type="xs:boolean" fixed="true"/>
      <xs:element name="IsFinal" type="xs:boolean" />
    </xs:choice>
    <xs:element name="SequenceNumber" type="xs:unsignedByte" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

```

<xs:element name="IsWithReservation" type="xs:boolean" minOccurs="0"/>
<xs:element name="CustomsComment" minOccurs="0">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="126" />
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="PackageCount" type="xs:unsignedInt" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:element name="MissingTIROperationTermination" type="MissingTIROperationTerminationType"/>

<!-- describe TIR operation termination data received at IRU -->
<xs:complexType name="ReceivedTIROperationTerminationType">
  <xs:complexContent>
    <xs:extension base="TIROperationTerminationType">
      <xs:attribute name="receivedDate" type="xs:dateTime" />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:simpleType name="ReconciliationRequestReasonType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="DISCREPANCY"/>
    <xs:enumeration value="MISSING"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ReconciliationRequestIdType">
  <xs:restriction base="xs:string">
    <xs:maxLength value="14" />
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="ReconciliationRequestType">
  <xs:sequence>
    <xs:element name="Id" type="ReconciliationRequestIdType"/>
    <xs:element name="Date" type="xs:dateTime" />
    <xs:element name="ReminderCount" type="xs:unsignedInt"/>
    <xs:element name="Originator">
      <xs:complexType>
        <xs:choice>
          <xs:element ref="act:IRU"/>
          <xs:element ref="act:Association"/>
        </xs:choice>
      </xs:complexType>
    </xs:element>
    <xs:element name="Remark" minOccurs="0">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="126" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="Reason" type="ReconciliationRequestReasonType"/>
    <xs:choice>
      <xs:element name="TIROperationTerminationToValidate" type="TIROperationTerminationType"/>
      <xs:element ref="MissingTIROperationTermination"/>
    </xs:choice>
  </xs:sequence>
</xs:complexType>

<xs:element name="ReconciliationRequest" type="ReconciliationRequestType"/>

<xs:complexType name="ReconciliationRequestReplyType">
  <xs:sequence>
    <xs:element name="Id" type="ReconciliationRequestIdType"/>
    <xs:element name="ReplyType">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="CONFIRMED"/>
          <xs:enumeration value="CORRECTED"/>
          <xs:enumeration value="NOT_FOUND"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="CorrectedTIROperationTermination" type="TIROperationTerminationType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="ReconciliationRequestRepliesType">
  <xs:sequence maxOccurs="unbounded">
    <xs:element name="ReconciliationRequestReply" type="ReconciliationRequestReplyType" />
  </xs:sequence>
  <xs:attribute name="count" type="xs:unsignedInt" />
</xs:complexType>

<xs:element name="ReconciliationRequestReplies" type="ReconciliationRequestRepliesType"/>
</xs:schema>

```

7.2.6 ISO 3166 1 - Country

```
<?xml version="1.0" encoding="UTF-8"?>
```

```

<xs:schema elementFormDefault="qualified"
targetNamespace="http://www.iru.org/model/iso-3166-1-alpha-3"
xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns="http://www.iru.org/model/iso-3166-1-alpha-3">

  <xs:simpleType name="CountryCodeType">
    <xs:restriction base="xs:string">
      <!-- No enumeration restriction is made here to take into account
      not only current, but also old and new country codes -->
      <xs:pattern value="[A-Z]{3}" />
    </xs:restriction>
  </xs:simpleType>

  <!-- http://www.unece.org/tir/system/tir-system-countries.html -->
  <xs:simpleType name="ContractingPartyCountryCodeType">
    <xs:restriction base="CountryCodeType">
      <xs:enumeration value="AFG" />
      <xs:enumeration value="ALB" />
      <xs:enumeration value="DZA" />
      <xs:enumeration value="ARM" />
      <xs:enumeration value="AUT" />
      <xs:enumeration value="AZE" />
      <xs:enumeration value="BLR" />
      <xs:enumeration value="BEL" />
      <xs:enumeration value="BIH" />
      <xs:enumeration value="BGR" />
      <xs:enumeration value="CAN" />
      <xs:enumeration value="CHL" />
      <xs:enumeration value="HRV" />
      <xs:enumeration value="CYP" />
      <xs:enumeration value="CZE" />
      <xs:enumeration value="DNK" />
      <xs:enumeration value="EST" />
      <xs:enumeration value="FIN" />
      <xs:enumeration value="FRA" />
      <xs:enumeration value="GEO" />
      <xs:enumeration value="DEU" />
      <xs:enumeration value="GRC" />
      <xs:enumeration value="HUN" />
      <xs:enumeration value="IDN" />
      <xs:enumeration value="IRN" />
      <xs:enumeration value="IRL" />
      <xs:enumeration value="ISR" />
      <xs:enumeration value="ITA" />
      <xs:enumeration value="JOR" />
      <xs:enumeration value="KAZ" />
      <xs:enumeration value="KWT" />
      <xs:enumeration value="KGZ" />
      <xs:enumeration value="LVA" />
      <xs:enumeration value="LBN" />
      <xs:enumeration value="LBR" />
      <xs:enumeration value="LTU" />
      <xs:enumeration value="LUX" />
      <xs:enumeration value="MLT" />
      <xs:enumeration value="MDA" />
      <xs:enumeration value="MNG" />
      <xs:enumeration value="MNE" />
      <xs:enumeration value="MAR" />
      <xs:enumeration value="NLD" />
      <xs:enumeration value="NOR" />
      <xs:enumeration value="POL" />
      <xs:enumeration value="PRT" />
      <xs:enumeration value="KOR" />
      <xs:enumeration value="ROU" />
      <xs:enumeration value="RUS" />
      <xs:enumeration value="SRB" />
      <xs:enumeration value="SVK" />
      <xs:enumeration value="SVN" />
      <xs:enumeration value="ESP" />
      <xs:enumeration value="SWE" />
      <xs:enumeration value="CHE" />
      <xs:enumeration value="SYR" />
      <xs:enumeration value="TJK" />
      <xs:enumeration value="MKD" />
      <xs:enumeration value="TUN" />
      <xs:enumeration value="TUR" />
      <xs:enumeration value="TKM" />
      <xs:enumeration value="UKR" />
      <xs:enumeration value="ARE" />
      <xs:enumeration value="GBR" />
      <xs:enumeration value="USA" />
      <xs:enumeration value="URY" />
      <xs:enumeration value="UZB" />
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="TIROperationalCountryCodeType">
    <xs:restriction base="ContractingPartyCountryCodeType">
      <xs:enumeration value="AFG" />
      <xs:enumeration value="ALB" />
      <xs:enumeration value="ARM" />
      <xs:enumeration value="AUT" />
      <xs:enumeration value="AZE" />
      <xs:enumeration value="BLR" />
      <xs:enumeration value="BEL" />
      <xs:enumeration value="BIH" />
      <xs:enumeration value="BGR" />
      <xs:enumeration value="HRV" />
      <xs:enumeration value="CYP" />
      <xs:enumeration value="CZE" />
    </xs:restriction>
  </xs:simpleType>

```

```

<xs:enumeration value="DNK" />
<xs:enumeration value="EST" />
<xs:enumeration value="FIN" />
<xs:enumeration value="FRA" />
<xs:enumeration value="GEO" />
<xs:enumeration value="DEU" />
<xs:enumeration value="GRC" />
<xs:enumeration value="HUN" />
<xs:enumeration value="IRN" />
<xs:enumeration value="IRL" />
<xs:enumeration value="ISR" />
<xs:enumeration value="ITA" />
<xs:enumeration value="JOR" />
<xs:enumeration value="KAZ" />
<xs:enumeration value="KWT" />
<xs:enumeration value="KGZ" />
<xs:enumeration value="LVA" />
<xs:enumeration value="LBN" />
<xs:enumeration value="LTU" />
<xs:enumeration value="LUX" />
<xs:enumeration value="MLT" />
<xs:enumeration value="MDA" />
<xs:enumeration value="MNG" />
<xs:enumeration value="MNE" />
<xs:enumeration value="MAR" />
<xs:enumeration value="NLD" />
<xs:enumeration value="NOR" />
<xs:enumeration value="POL" />
<xs:enumeration value="PRT" />
<xs:enumeration value="ROU" />
<xs:enumeration value="RUS" />
<xs:enumeration value="SRB" />
<xs:enumeration value="SVK" />
<xs:enumeration value="SVN" />
<xs:enumeration value="ESP" />
<xs:enumeration value="SWE" />
<xs:enumeration value="CHE" />
<xs:enumeration value="SYR" />
<xs:enumeration value="TJK" />
<xs:enumeration value="MKD" />
<xs:enumeration value="TUN" />
<xs:enumeration value="TUR" />
<xs:enumeration value="TKM" />
<xs:enumeration value="UKR" />
<xs:enumeration value="GBR" />
<xs:enumeration value="UZB" />
</xs:restriction>
</xs:simpleType>
</xs:schema>

```

7.2.7 ISO 4217 - Currency

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
  targetNamespace="http://www.iru.org/model/iso-4217"
  xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns="http://www.iru.org/model/iso-4217">

  <xs:simpleType name="CurrencyCodeType">
    <xs:restriction base="xs:string">
      <!-- No enumeration restriction is made here to take into account
        not only current, but also old and new currency codes -->
      <xs:pattern value="[A-Z]{3}" />
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="CurrencyNumType">
    <xs:restriction base="xs:unsignedShort">
      <!-- No restriction is made here to take into account
        not only current, but also old and new currency numeric codes -->
    </xs:restriction>
  </xs:simpleType>

  <xs:complexType name="CurrencyType">
    <xs:simpleContent>
      <xs:extension base="CurrencyCodeType">
        <xs:attribute name="num" type="CurrencyNumType" use="optional" />
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>

  <xs:element name="Currency" type="CurrencyType" />
</xs:schema>

```

7.2.8 ISO 639 1 - Language

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
  targetNamespace="http://www.iru.org/model/iso-639-1"
  xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns="http://www.iru.org/model/iso-639-1">

```

```

<xs:simpleType name="LanguageCodeType">
  <xs:restriction base="xs:string">
    <!-- No enumeration restriction is made here to take into account
         not only current, but also old and new language codes -->
    <xs:pattern value="[a-z]{2}" />
  </xs:restriction>
</xs:simpleType>
</xs:schema>

```

7.2.9 IETF RFC 2278 - Charset

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
  targetNamespace="http://www.ietf.org/rfc/rfc2278"
  xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns="http://www.ietf.org/rfc/rfc2278">

  <xs:simpleType name="IANACharsetType">
    <!--

3.3. Naming Requirements

One or more names MUST be assigned to all registered charsets.
Multiple names for the same charset are permitted, but if multiple
names are assigned a single primary name for the charset MUST be
identified. All other names are considered to be aliases for the
primary name and use of the primary name is preferred over use of any
of the aliases.

Each assigned name MUST uniquely identify a single charset. All
charset names MUST be suitable for use as the value of a MIME content
type charset parameter and hence MUST conform to MIME parameter value
syntax. This applies even if the specific charset being registered is
not suitable for use with the "text" media type.

Finally, charsets being registered for use with the "text" media type
MUST have a primary name that conforms to the more restrictive syntax
of the charset field in MIME encoded-words [RFC-2047, RFC-2184] and
MIME extended parameter values [RFC-2184]. A combined ABNF definition
for such names is as follows:

mime-charset = 1*<Any CHAR except SPACE, CTLs, and cspecials>

cspecials = "(" / ")" / "<" / ">" / "@" / "," / ";" / ":" / "\"
  <"> / "/" / "[" / "]" / "?" / "." / "=" / "*"

CHAR = <any ASCII character>; ( 0-177, 0.-127.)
SPACE = <ASCII SP, space>; ( 40, 32.)
CTL = <any ASCII control ; ( 0- 37, 0.- 31.)
      character and DEL>; ( 177, 127.)

-->
    <xs:restriction base="xs:string"/>
  </xs:simpleType>
</xs:schema>

```

7.2.10 IETF RFC 4288 - Media Type

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
  targetNamespace="http://www.ietf.org/rfc/rfc4288"
  xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns="http://www.ietf.org/rfc/rfc4288">

  <xs:simpleType name="IANAMediaType">
    <!--

4.2. Naming Requirements

All registered media types MUST be assigned type and subtype names.
The combination of these names serves to uniquely identify the media
type, and the format of the subtype name identifies the registration
tree. Both type and subtype names are case-insensitive.

Type and subtype names beginning with "X-" are reserved for
experimental use and MUST NOT be registered. This parallels the
restriction on the x. tree, as discussed in Section 3.4.

Type and subtype names MUST conform to the following ABNF:

type-name = reg-name
subtype-name = reg-name

reg-name = 1*127reg-name-chars
reg-name-chars = ALPHA / DIGIT / "!" /
  "#" / "$" / "&" / "." /
  "+" / "-" / "~" / "_"

Note that this syntax is somewhat more restrictive than what is
allowed by the ABNF in [RFC2045].

In accordance with the rules specified in [RFC3023], media subtypes

```

that do not represent XML entities MUST NOT be given a name that ends with the "+xml" suffix. More generally, "+suffix" constructs should be used with care, given the possibility of conflicts with future suffix definitions.

While it is possible for a given media type to be assigned additional names, the use of different names to identify the same media type is discouraged.

These requirements apply regardless of the registration tree involved.

The choice of top-level type name MUST take into account the nature of media type involved. New subtypes of top-level types MUST conform to the restrictions of the top-level type, if any. The following sections describe each of the initial set of top-level types and their associated restrictions. Additionally, various protocols, including but not limited to MIME, MAY impose additional restrictions on the media types they can transport. (See [RFC2046] for additional information on the restrictions MIME imposes.)

-->

```
<xs:restriction base="xs:string"/>
</xs:simpleType>
</xs:schema>
```