

# Fraktguide

(Shippingguide)

## Technical Developer Notes for Bring Fraktguide

**This document is aimed at technical developers  
integrating with fraktguide with Web Services**

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## *What is Fraktguiden?*

See <http://fraktguide.bring.no> for up to date information about fraktguiden. The webpages also includes a English-introduction to fraktguiden.

## ***Requesting features or Reporting bugs in Fraktguiden***

We welcome any ideas, features, improvements and bug reports.

In a request we would be pleased if you include the following information

- Description of error or sought for feature, and how you would expect it to work.
- Name, email and phone number for contact person
- Technical information (should be logged by users of Fraktguiden)
  - Date and time of Request (from webshop's logs)
  - Error Message from Fraktguiden
  - ErrorId from Fraktguiden
  - Your own error codes/messages.

Send requests, ideas, bugreports and errors to [fraktguide@posten.no](mailto:fraktguide@posten.no)

## ***Testing Fraktguiden***

You are welcome to integration/functionally-test with Fraktguiden (production).

If you need to run repeated queries, load testing, etc, please contact us, so we can give you details to our QA environment.

## ***Products in Fraktguiden***

See information on products, additional services and product texts at <http://fraktguide.bring.no>

## Three simple steps to access the Web Services

### 1. Register at <http://fraktguide.bring.no>

#### Registrere ny bruker

Fyll ut feltene under for å registrere deg som bruker. Alle feltene er obligatoriske.

##### Kontaktinformasjon

Firmanavn *	<input type="text"/>
Kontaktperson *	<input type="text"/>
E-post *	<input type="text"/>
Telefon *	<input type="text"/>
Webadresse *	<input type="text"/>

##### Brukerinformasjon

Brukernavn og passord skiller mellom små og store bokstaver.

Ønsket brukernavn *	<input type="text"/>
Ønsket passord *	<input type="password"/>
Gjenta passord *	<input type="password"/>

##### Vilkår

Avtalevilkår som må godtas...

☐ Jeg har lest og godtar vilkårene

Avbryt

Registrer

### 2. Note your unique identifier string ('identifikasjonsstreng')

After logging in, click "Min identifikator"

Din identifikatorstreng er:

**83b8664b-f354-424e-8772-28bcb4f1e2e5**

### 3. Use your identifier when calling our Web Service

```
<ship:ShippingGuideRequest>
  <ship:UserInformation>
    <ship:Usercode>83b8664b-f354-424e-8772-28bcb4f1e2e5</ship:Usercode>
  (...)
```

## *For developers*

The address of the WSDL is in the menu of Fraktguiden's website.

The Web Services are based on request documents and response documents. Both documents are defined in the XSD section of the WSDL.

### ***Error Handling***

- Errors are thrown as SOAP Exceptions with an error code, a short (technical) description, and an error Id for the occurrence.

### ***Terms and technologies a developer should know***

Web Services	<a href="http://en.wikipedia.org/wiki/Web_services">http://en.wikipedia.org/wiki/Web_services</a>
WSDL	<a href="http://en.wikipedia.org/wiki/Web_Services_Description_Language">http://en.wikipedia.org/wiki/Web_Services_Description_Language</a>
XML	<a href="http://no.wikipedia.org/wiki/XML">http://no.wikipedia.org/wiki/XML</a>

Further information on Bring's products can be found here:

<http://www.bring.no/Produkter+og+tjenester/Bring+Logistics>

## ***Get acquainted with the service – test it with soapUI!***

Before developing your integration, we recommend that you first explore how the service work.

Before you start: Download and install soapUI

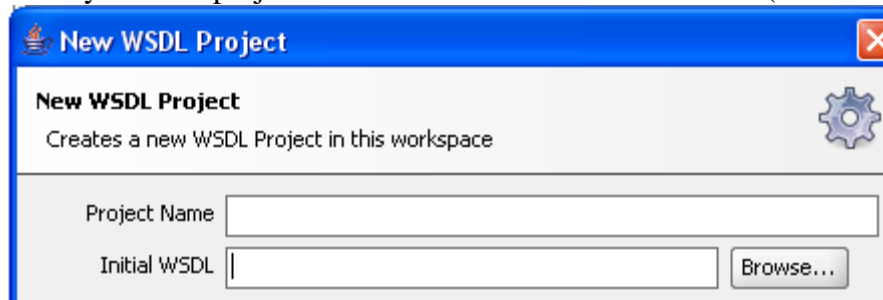
<http://www.soapui.org/>

Recipe:

1. Right-click "Projects" and choose...



2. Enter your own projectname and the address of the WSDL (see above)



3. soapUI will generate an example ShippingGuideRequest which you can use to test the service



4. Double-click "Request 1"
5. Modify the request with your own values. The service handles default values, and you can remove quite a few parameters you do not like. Example ShippingGuideRequest (NB! Remember to set your own identifier-string):

```
<ship:ShippingGuideRequest>
  <ship:UserInformation>
    <ship:UserCode>83b8664b-f354-424e-8772-28bcb4f1e2e5</ship:UserCode>
  </ship:UserInformation>
  <ship:ProductIds>
    <ship:ProductId>SERVICEPAKKE</ship:ProductId>
  </ship:ProductIds>
  <ship:Packages>
    <ship:Package packageId="MyRef">
      <ship:GrossWeight unitCode="GRM">4000</ship:GrossWeight>
      <ship:FromPostalCode>1407</ship:FromPostalCode>
      <ship:ToPostalCode>7600</ship:ToPostalCode>
      <ship:ShippingDate>
        <ship:Year>2009</ship:Year>
        <ship:Month>04</ship:Month>
        <ship:Day>06</ship:Day>
      </ship:ShippingDate>
    </ship:Package>
  </ship:Packages>
</ship:ShippingGuideRequest>
```

6. Click "Run"

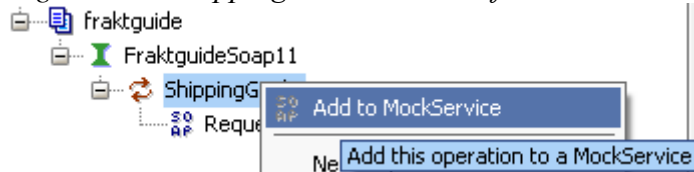


7. You should receive a response such as this:

```
<ship:ShippingGuideResponse xmlns:ship="http://www.bring.no/logistics/shippingguide">
  <ship:Packages>
    <ship:Package packageId="MyRef">
      <ship:Product>
        <ship:ProductId>SERVICEPAKKE</ship:ProductId>
        <ship:Price>
          <ship:PackagePriceWithoutAdditionalServices>
            <ship:AmountWithoutVAT>86.00</ship:AmountWithoutVAT>
            <ship:VAT>21.50</ship:VAT>
            <ship:AmountWithVAT>107.50</ship:AmountWithVAT>
          </ship:PackagePriceWithoutAdditionalServices>
          <ship:PackagePriceWithAllAdditionalServices>
            <ship:AmountWithoutVAT>86.00</ship:AmountWithoutVAT>
            <ship:VAT>21.50</ship:VAT>
            <ship:AmountWithVAT>107.50</ship:AmountWithVAT>
          </ship:PackagePriceWithAllAdditionalServices>
        </ship:Price>
        <ship:ExpectedDelivery>
          <ship:WorkingDays>2</ship:WorkingDays>
          <ship:FormattedExpectedDeliveryDate>08.04.2009</ship:FormattedExpectedDeliveryDate>
          <ship:ExpectedDeliveryDate>
            <ship:Year>2009</ship:Year>
            <ship:Month>4</ship:Month>
            <ship:Day>8</ship:Day>
          </ship:ExpectedDeliveryDate>
        </ship:ExpectedDelivery>
      </ship:Product>
    </ship:Package>
  </ship:Packages>
</ship:ShippingGuideResponse>
```

*Tip: soapUI can generate an example ShippingGuideResponse:*

1. Right-click "ShippingGuide" in the left-side tree-menu



2. Choose "Ok" and "Yes" in the following dialogs

3. You should now see an example response (without content)

## Online price requests (*ShippingGuideRequest*)

**When you require the up-to-date price for one or more packages, you may call this service. This is the most advanced service and will respond the highest quality answer for your request.**

At the Fraktguide website you may test the functionality of the service through a web-interface.

You can get responses for several products and packages concurrently if you wish.

Keywords on the functionality of online price lookups/queries

- The service will attempt to respond with as minimal input as possible.
- If you only pass *to* and *from* postal codes, it will respond with estimated time of delivery and coverage of the product.
- If you also pass weight it will in addition to the above calculate and return the price by it's weight.
- If you include *volume* in your request (length & height), it will calculate and return the price in accordance to its metrics.
- **Summary: The more parameters/input you pass to Fraktguiden, the more accurate the calculations will be.**
- Calculation of expected delivery date is based that the request passes parameter "ShippingDate". The ShippingDate is the date the postal service receive and register the package/parcel.
- With the «På Døren» (On the Door) product you may *select* a delivery date. In practise this is done by withholding the package/parcel by delivering it to Bring. Fraktguiden will let the webshop know when they have to hand over the package/parcel to be delivered the agreed date.
- **NOTE that** In certain circumstances you may receive an empty answer. This indicates that no recommended products are available for the package/parcel you ask to ship. Typically this indicates the product(s) you request cannot be delivered to the postalcode entered. These edge cases should be handled by the client.
- **NOTE that** the actual billed price is based on the existing agreements, and on the measurements registered by Bring's measurement- and weightstations.

## Example messages

### ShippingGuideRequest (as in soapUI – simplified slightly)

```
<ShippingGuideRequest>
  <UserInformation>
    <Usercode>?</Usercode>
  </UserInformation>
  <RequestProperties>
    <Language>?</Language>
    <WithPrice>?</WithPrice>
    <WithExpectedDelivery>?</WithExpectedDelivery>
    <NumberOfAlternativeDeliveryDates>?
  </NumberOfAlternativeDeliveryDates>
    <EDI>?</EDI>
    <PostingAtPostoffice>?</PostingAtPostoffice>
  </RequestProperties>
</ShippingGuideRequest>
```



```

</RequestProperties>
<ProductIds>
  <ProductId>?</ProductId>
</ProductIds>
<Packages>
  <Package packageId="?">
    <Height unitCode="CMT">?</Height>
    <Width unitCode="CMT">?</Width>
    <Length unitCode="CMT">?</Length>
    <GrossWeight unitCode="GRM">?</GrossWeight>
    <Volume unitCode="DMQ">?</Volume>
    <VolumeSpecial>?</VolumeSpecial>
    <FromPostalCode>?</FromPostalCode>
    <ToPostalCode>?</ToPostalCode>
    <ShippingDate>
      <Year>?</Year>
      <Month>?</Month>
      <Day>?</Day>
    </ShippingDate>
    <AdditionalServices>
      <AdditionalService>
        <AdditionalServiceId>?</AdditionalServiceId>
        <AdditionalServiceParameters>
          <AdditionalServiceParameter name="?">?
        </AdditionalServiceParameter>
        </AdditionalServiceParameters>
      </AdditionalService>
    </AdditionalServices>
    <EarlyCollectionAtTerminal>?</EarlyCollectionAtTerminal>
  </Package>
</Packages>
</ShippingGuideRequest>

```

### ShippingGuideRequest (real example)

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:ship="http://www.bring.no/logistics/shippingguide">
  <soapenv:Header />
  <soapenv:Body>
    <ship:ShippingGuideRequest>
      <ship:UserInformation>
        <ship:UserCode>83b8664b-f354-424e-8772-
28bcb4f1e2e5</ship:UserCode>
      </ship:UserInformation>
      <ship:RequestProperties>

        <ship:NumberOfAlternativeDeliveryDates>2</ship:NumberOfAlternativeDelive
ryDates>
      </ship:RequestProperties>
      <ship:ProductIds>
        <ship:ProductId>SERVICEPAKKE</ship:ProductId>
      </ship:ProductIds>
      <ship:Packages>
        <ship:Package packageId="MyRef">
          <ship:GrossWeight unitCode="GRM">4000</ship:GrossWeight>
          <ship:FromPostalCode>7600</ship:FromPostalCode>
          <ship:ToPostalCode>1407</ship:ToPostalCode>
          <ship:ShippingDate>
            <ship:Year>2009</ship:Year>
            <ship:Month>04</ship:Month>
            <ship:Day>06</ship:Day>
          </ship:ShippingDate>
        </ship:Package>
      </ship:Packages>
    </ship:ShippingGuideRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

```

        <ship:AdditionalServices>
            <ship:AdditionalService>

<ship:AdditionalServiceId>Postoppkrav</ship:AdditionalServiceId>
            </ship:AdditionalService>
        </ship:AdditionalServices>
    </ship:Package>
</ship:Packages>
</ship:ShippingGuideRequest>
</soapenv:Body>
</soapenv:Envelope>

```

## ShippingGuideResponse (real example- response)

```

<ship:ShippingGuideResponse
  xmlship:ship="http://www.bring.no/logistics/shippingguide">
  <ship:Packages>
    <ship:Package packageId="MyRef">
      <ship:Product>
        <ship:ProductId>SERVICEPAKKE</ship:ProductId>
        <ship:GuiInformation>
          <ship:SortOrder>1</ship:SortOrder>
          <ship>MainDisplayCategory>Hent sendingen
selv</ship>MainDisplayCategory>
          <ship:SubDisplayCategory />
          <ship:DisplayName>Hent sendingen selv - På
postkontor eller post i butikk</ship:DisplayName>
          <ship:ProductName>Bring
Servicepakke</ship:ProductName>
          <ship:DescriptionText>Vinterbro Post i Butikk,
COOP OBS Vinterbro. Åpningstider Man - Fre: 0800-2200, Lør: 0800-2000
</ship:DescriptionText>
          <ship:HelpText>Sendingen er en Bring
Servicepakke som blir levert til mottakers postkontor/ post i butikk.
Mottaker kan velge å hente sendingen på et annet postkontor/post i butikk
enn sitt lokale. Mottaker varsles om at sendingen er ankommet via SMS, e-
post eller hentemelding i postkassen. Transporttid er normalt 1-3
virkedager, avhengig av strekning. Sendingen kan spores ved hjelp av
sporingsnummeret.</ship:HelpText>
          <ship:Tip>Billigst!</ship:Tip>
        </ship:GuiInformation>
        <ship:Price>
          <ship:PackagePriceWithoutAdditionalServices>

<ship:AmountWithoutVAT>86.00</ship:AmountWithoutVAT>
          <ship:VAT>21.50</ship:VAT>

<ship:AmountWithVAT>107.50</ship:AmountWithVAT>
          </ship:PackagePriceWithoutAdditionalServices>
          <ship:PackagePriceWithAllAdditionalServices>

<ship:AmountWithoutVAT>120.00</ship:AmountWithoutVAT>
          <ship:VAT>30.00</ship:VAT>

<ship:AmountWithVAT>150.00</ship:AmountWithVAT>
          </ship:PackagePriceWithAllAdditionalServices>
          <ship:AdditionalServicePrices>
            <ship:AdditionalService>

<ship:AdditionalServiceId>Postoppkrav
          </ship:AdditionalServiceId>

```

```

                                <ship:AdditionalServicePrice>

<ship:AmountWithoutVAT>34.00</ship:AmountWithoutVAT>
                                <ship:VAT>8.50</ship:VAT>

<ship:AmountWithVAT>42.50</ship:AmountWithVAT>
                                </ship:AdditionalServicePrice>
                                </ship:AdditionalService>
                                </ship:AdditionalServicePrices>
</ship:Price>
<ship:ExpectedDelivery>
    <ship:WorkingDays>2</ship:WorkingDays>
    <ship:UserMessage>Kan inneholde tekst om
fremsendingstid

                                </ship:UserMessage>
                                <ship:FormattedExpectedDeliveryDate>08.04.2009
                                </ship:FormattedExpectedDeliveryDate>
                                <ship:ExpectedDeliveryDate>
                                    <ship:Year>2009</ship:Year>
                                    <ship:Month>4</ship:Month>
                                    <ship:Day>8</ship:Day>
                                </ship:ExpectedDeliveryDate>
                                <ship:AlternativeDeliveryDates>
                                    <ship:AlternativeDeliveryDate>
                                        <ship:ShippingDate>
                                            <ship:Year>2009</ship:Year>
                                            <ship:Month>4</ship:Month>
                                            <ship:Day>7</ship:Day>
                                        </ship:ShippingDate>
                                        <ship:UserMessage>Kan inneholde
tekst om fremsendingstid

                                </ship:UserMessage>
                                <ship:ExpectedDeliveryDate>
                                    <ship:Year>2009</ship:Year>
                                    <ship:Month>4</ship:Month>
                                    <ship:Day>11</ship:Day>
                                </ship:ExpectedDeliveryDate>
                                </ship:AlternativeDeliveryDate>
                                </ship:AlternativeDeliveryDates>
                                </ship:ExpectedDelivery>
                                </ship:Product>
                                </ship:Package>
                                </ship:Packages>
</ship:ShippingGuideResponse>

```

## Reference manual - ShippingGuideRequest

Element (XPath)	Description	Default
/UserInformation/Usercode	Identificator String	
/RequestProperties/*	Contains <b>optional</b> elements that can be used to affect the response	
/RequestProperties/Language	Language of the response. At the moment, only Norwegian is supported.	no
/RequestProperties/WithPrice/	Flag to indicate if prices should be returned.	true
/RequestProperties/WithExpectedDelivery	Flag to indicate if expected deliver date is to be returned	true
/RequestProperties/NumberOfAlternativeDeliveryDates/	Number of "ShipmentDates" the service should calculate. Max value is 9	0
/RequestProperties/EDI	Flag to indicate if the packages are to be sent via EDI	true
/RequestProperties/ PostingAtPostoffice	Flag to indicate that the packages will be delivered to a post office terminal (may affect the price in certain cases)	false
/ProductIds/ProductId	List of Product IDs you wish to get alternatives for. See more in table below.	No defaults – required field
/Packages/Package/@packageId	If you ship more than one package, you can add a reference to each package. This reference will be included in the response. <i>Maximum 10 Package elements for each request.</i>	
/Packages/Package/Height	Height of the package in <b>centimeters</b>	
/Packages/Package/Width	Width of package in <b>centimeters</b>	
/Packages/Package/Length	Length of package in <b>centimeters</b>	
/Packages/Package/GrossWeight	Gross Weight of the package in <b>grams</b>	
/Packages/Package/Volume	Volume of package in <b>dm<sup>3</sup></b>	
/Packages/Package/VolumeSpecial	Flag to indicate if the package has a shape that may require 'special handling fee'.	False
/Packages/Package/FromPostalCode	Postalcode <b>from</b> (sender)	
/Packages/Package/ToPostalCode	Postalcode <b>to</b> (recipient)	

/Packages/Package/ShippingDate/*	Date to ship (delivery date to the postal service) <b>within</b> the shipment/pickup date-time. If date is given, you will receive a "ExpectedDelivery"
----------------------------------	---

	element in ShippingGuideResponse
/Packages/Package/AdditionalServices/*	Element containing additional services you wish to request the prices for.
/Packages/Package/AdditionalServices/ AdditionalServiceId	Id of additional service you request the price for. See table below.
/Packages/Package/AdditionalServices/ AdditionalServiceParameters/*	Parameters for the respective additional service. (For future use).
/Packages/Package/EarlyCollectionAtTerminal	<p>Postalcode for terminal.</p> <p>If you have an agreement for same-day delivery, and ship a "På Døren" (To the Door) package to the Oslo terminal – within the deadline of the agreement; use code 0024 in this field. Using this field currently only affects shipment times for these packages.</p>

## Reference manual - ShippingGuideResponse

Element (XPath)	Description	Example value
/Packages/*	Contains the requested packages	
/Packages/Package/*	A single package. The attribute <b>packageId</b> contains the reference you specified in the request	
/Packages/Package/Product/*	Information about the product. Can contain 0-n products.	
/Packages/Product/ProductId	Product ID. See table below.	SERVICE PAKKE
/Packages/Product/GuiInformation/*	Product texts. See more complete description below.	
/Packages/Product/Price/*	Collection for all information related to prices.	
/Packages/Product/Price/ PackagePriceWithoutAdditionalServices/*	Price <b>without</b> any additional services <i>All prices are given</i> <i>-without value added tax (VAT),</i> <i>-with VAT as well as</i> <i>-VAT itself specified. Period is used for separating decimals.</i>	
/Packages/Product/Price/ PackagePriceWithAllAdditionalServices/*	Price with <b>all</b> requested additional services <i>All prices are given</i> <i>-without value added tax (VAT),</i> <i>-with VAT as well as</i> <i>-VAT itself specified. Period is used for separating decimals.</i>	
/Packages/Product/ Price/AdditionalServicePrices/*	Collection containing all requested additional services with respective prices	
/Packages/Product/ Price/AdditionalServicePrices/ AdditionalService/AdditionalServiceId	Id of additional service.	POST OPPKRAV
/Packages/Product/ Price/AdditionalServicePrices/ AdditionalService/AdditionalServicePrice	Price for <b>the single</b> additional service.	

/Packages/Product/ExpectedDelivery/*	Collection for all information related to delivery time
/Packages/Product/ExpectedDelivery/ WorkingDays	Number of week days from pickup to delivery. First day is day 0. NOTE! If this number is used, know that there are special rules surrounding christmas, easter, shipments to Svalbard and certain other

	destinations. <i>For the complete picture of delivery time, it is important that the message in <b>UserMessage</b> is made available to the end user</i>	
/Packages/Product/ExpectedDelivery/ FormattedExpectedDeliveryDate	Expected delivery date based on the request parameters (product, postalcodes and <b>ShipmentDate</b> ). This field is preformatted.	DD.MM.YY YY
/Packages/Product/ExpectedDelivery/ ExpectedDeliveryDate	Expected delivery date based on request parameters. Contains elements year, month, day.	
/Packages/Product/ExpectedDelivery/ UserMessage	Important message to end-user in requested language regarding delivery.  We recommend this is forwarded to the end-user.	Usually empty response. In special cases a one-liner.
/Packages/Product/ExpectedDelivery/ AlternativeDeliveryDates	Collection for alternate delivery dates if <i>NumberOfAlternativeDeliveryDates</i> is specified in request. <i>In practise this collection can be used to let the customer decide which day to receive the package. The datastructure also provides the sender when to deliver to the postal service in order to reach the customer on the given day.</i>	
/Packages/Product/ExpectedDelivery/ AlternativeDeliveryDates/ AlternativeDeliveryDate	An alternate delivery date.	
/Packages/Product/ExpectedDelivery/ AlternativeDeliveryDates/ AlternativeDeliveryDate/ShippingDate	The date the shop must ship the package by make the delivery date.	
/Packages/Product/ExpectedDelivery/ AlternativeDeliveryDates/ AlternativeDeliveryDate/ ExpectedDeliveryDate	Estimated delivery date based on <b>ShippingDate</b> for alternate delivery dates.	
/Packages/Product/ExpectedDelivery/ AlternativeDeliveryDates/ AlternativeDeliveryDate/UserMessage	See (...)/ <b>ExpectedDelivery/UserMessage</b>	

## *Offline data (OfflineShippingGuideRequest)*

This service provides the client to download a complete data structure of Brings prices. The representation is more complete and detailed than the information available through Excel files found at [www.bring.no](http://www.bring.no). Data is available as XML, CSV and HTML(!).

When using the offline service, all dates for shipment date, special handling, weight-based freight, taxes and delivery date must be calculated by your own system.

The data structure is available both through the web-interface and Web Service. We recommend professional parties to automate retrieval in order to stay current with the prices.

### **Suggested implementation**

The data structure in XML is created to achieve quickest possible lookup/query.

If you have the opportunity, we recommend using XPath with XML data. I.e. Do not map the values into a relational database – this simplifies updates of the data structure.

XPath to find the number of days to send a package to Levanger (7600):  
`//ExpectedDeliveryTimes/WorkingDays[@toPostalCode='7600']`

XPath to find the price zone for a shipment to Levanger (7600):  
`//PrizeZoneForPostalCode/PriceZone[@toPostalCode='7600']`

Once the price zone has been found, you can use this to get price (excluding tax). For packages, you should round up to the nearest kilo, and give the value in grams.  
`//Prices/Price[@priceZone='3' and @weight='4000']`

### **About the Data Structure**

The structure is calculated with a given «**from**» postal code (passed in the request to the Web Service). If you need to ship from several postal codes, you need several sets of offline data structures.

Data is represented like this:

For every single product requested

- Table of delivery times
  - For each row: Postalcode, and how many workdays for the shipment
    - A value of -1 means that the destination postalcode is inside the senders postal code, but the number of workdays is unknown.
- Table price zones
  - For each row: Postalcode, and which price zone is to be used for shipments to the postal code.
    - If postalcode does not contain any rows in, the postal code is outside of the coverage area of the selected product.
    - Price zones are based on Bring's regular zones (1-5). In addition, the zone model support non-central zones and Svalbard.



- Price table
  - Rows: Price Zone, Weight in grams and price
    - Price reflects **PostingAtPostoffice**. TODO.
    - Price reflects **EDI**. TODO.
    - Weight in grams is **freight weight (gross+tare weight)**. Many products calculate (freight) weight by volume and not gross weight.
- Product attribute table
  - Rows: Id and product attribute text (i.e. Maximum measurements...)
- Additional Service Prices table
  - Rows: Id and Additional service price (i.e. Postoppkrav)...

### ***Automatic updates of offline data***

We recommend to update the offline data every night. The following data are prone to change often:

- Prices (Priser)
- Coverage (Dekningsområde)
- Delivery times (Fremsendingstider)

The Web Service response contains a **Checksum** that indicates if any of the data has been changed.

When setting up scheduled calls to the Web Service, please choose a random nightly (00:01 – 05:59) GMT+1 (CET) time. For instance 02:36. The offline calls are pretty heavy, so we prefer if they are spread across the night! ☺

### ***Example messages Offline service***

#### **OfflineShippingGuideRequest (soapUI – simplified)**

```
<OfflineShippingGuideRequest>
  <UserInformation>
    <Usercode>?</Usercode>
  </UserInformation>
  <OfflineRequestProperties>
    <Language>?</Language>
    <WithPrice>?</WithPrice>
    <WithExpectedDelivery>?</WithExpectedDelivery>
    <EDI>?</EDI>
    <PostingAtPostoffice>?</PostingAtPostoffice>
    <Trace>?</Trace>
  </OfflineRequestProperties>
  <ProductIds>
    <ProductId>?</ProductId>
  </ProductIds>
  <FromPostalCode>?</FromPostalCode>
</OfflineShippingGuideRequest>
```

#### **OfflineShippingGuideRequest (real example)**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:ns="http://www.bring.no/logistics/shippingguide/1.0">
```

```

<soapenv:Header />
<soapenv:Body>
  <ns:OfflineShippingGuideRequest>
    <ns:UserInformation>
      <ns:UserCode>d6bcc9b1-a74f-4deb-92ee-a3fcda85c57d</ns:UserCode>
    </ns:UserInformation>
    <ns:ProductIds>
      <ns:ProductId>SERVICEPAKKE</ns:ProductId>
      <ns:ProductId>PA_DOREN</ns:ProductId>
    </ns:ProductIds>
    <ns:FromPostalCode>7600</ns:FromPostalCode>
  </ns:OfflineShippingGuideRequest>
</soapenv:Body>
</soapenv:Envelope>

```

## OfflineShippingGuideResponse (real example)

```

<SOAP-ENV:Envelope xmlns:SOAP-
ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header />
  <SOAP-ENV:Body>
    <OfflineShippingGuideResponse
      xmlns="http://www.bring.no/logistics/shippingguide/1.0">
      <DataInformation>
        <FromPostalCode>7600</FromPostalCode>
        <EDI>true</EDI>
        <PostingAtPostoffice>false</PostingAtPostoffice>
        <FormattedGeneratedDate>06.01.2009</FormattedGeneratedDate>
        <FormattedValidFromDate>06.01.2009</FormattedValidFromDate>

        <Checksum>ccf333d7ebf9487269e8394e59cc414244cff9c663b2f5c372fa55bd</Check
sum>

      </DataInformation>
      <Products>
        <Product productId="SERVICEPAKKE">
          <ProductAttributes>
            <ProductAttribute
productAttributeId="MaksVekt">35000</ProductAttribute>
            <ProductAttribute
productAttributeId="MinVolum">23x13x1</ProductAttribute>
            <ProductAttribute
productAttributeId="MaksVolum">120x60x60</ProductAttribute>
          </ProductAttributes>
          <AdditionalPrices>
            <AdditionalPrice
additionalPriceId="Spesialgodstillegg">74.00</AdditionalPrice>
            <AdditionalPrice additionalPriceId="Evarsling">-
1.00</AdditionalPrice>
            <AdditionalPrice
additionalPriceId="Postoppkrav">34.00</AdditionalPrice>
          </AdditionalPrices>
          <ExpectedDeliveryTimes>
            <WorkingDays toPostalCode="0001">2</WorkingDays>
            <WorkingDays toPostalCode="0002">2</WorkingDays>
            (...)
          </ExpectedDeliveryTimes>
          <PriceZoneForPostalCode>
            <PriceZone toPostalCode="0001">4</PriceZone>
            <PriceZone toPostalCode="0002">4</PriceZone>
            (...)
          </PriceZoneForPostalCode>
        </Product>
      </Products>
    </OfflineShippingGuideResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

```

        </PriceZoneForPostalCode>
        <Prices>
            <Price priceZone="1" weight="1000">63</Price>
            <Price priceZone="1" weight="2000">64</Price>
            (...)
        </Prices>
    </Product>
    <Product productId="PA_DOREN">
        <ProductAttributes>
            <ProductAttribute
productAttributeId="MaksVekt">35000</ProductAttribute>
            <ProductAttribute
productAttributeId="MinVolum">23x13x1</ProductAttribute>
            <ProductAttribute
productAttributeId="MaksVolum">120x60x60</ProductAttribute>
        </ProductAttributes>
        <AdditionalPrices>
            <AdditionalPrice
additionalPriceId="Spesialgodstillegg">74.00</AdditionalPrice>
            <AdditionalPrice
additionalPriceId="Postoppkrav">34.00</AdditionalPrice>
        </AdditionalPrices>
        <ExpectedDeliveryTimes>
            <WorkingDays toPostalCode="0139">1</WorkingDays>
            <WorkingDays toPostalCode="0151">1</WorkingDays>
            (...)
        </ExpectedDeliveryTimes>
        <PriceZoneForPostalCode>
            <PriceZone toPostalCode="0139">4</PriceZone>
            <PriceZone toPostalCode="0151">4</PriceZone>
            (...)
        </PriceZoneForPostalCode>
        <Prices>
            <Price priceZone="1" weight="1000">89</Price>
            <Price priceZone="1" weight="2000">90</Price>
            (...)
        </Prices>
    </Product>
</Products>
</OfflineShippingGuideResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

## ***Reference manual – OfflineShippingGuideRequest***

Element (XPath)	Description	Default
/UserInformation/Usercode	Identificator string	
/RequestProperties/*	<b>optional</b> elements used to modify the response...	
/RequestProperties/Language	Response language. Currently only supports norwegian	no
/RequestProperties/WithPrice/	Flag to indicate if price is to be returned	true
/RequestProperties/WithExpectedDelivery	Flag to indicate if expected delivery is to be returned	true
/RequestProperties/EDI	Flag to indicate if packages are to be sent via EDI (pickup by EDI)	true
/RequestProperties/ PostingAtPostoffice	Flag to indicate if packages are sent through a post office terminal (manual delivery)	false
/RequestProperties/ValidFromDate	From date of price requests (i.e. Prices from tomorrow). <u>Pending Fraktguiden has been updated with new prices.</u> More information on this at <a href="http://fraktguide.bring.no">fraktguide.bring.no</a>	
/ProductIds/ProductID	List of Products (Ids) that are to be included in the data structure.	None – specify atleast one
/FromPostalCode	Postal code for sender. This is used to calculate prices and times to all other destinations.	

## **Reference Manual – OfflineShippingGuideResponse**

<b>Element (XPath)</b>	<b>Description</b>
/DataInformation/FromPostalCode	From Postalcode
/DataInformation/EDI	Are the prices based on shipment with EDI?
/DataInformation/PostingAtPostoffice	Are the prices based on shipment from a local post office?
/DataInformation/FormattedGeneratedDate	Date and Time data structure was generated
/DataInformation/FormattedValidFromDate	Date the dataset is valid from*
/DataInformation/Checksum	Checksum for dataset.
/Products/Product/@productId	ProductId
/Products/Product/ProductAttributes/*	List of productattributes (keys/values) I.e. min/max weight, min/max volume.
/Products/Product/AdditionalPrices/*	List of additional service prices. I.e. Postoppkrav (pay on delivery) and spesialgodstillegg (special handling).
/Products/Product/ExpectedDeliveryTimes/*	List of expected delivery times for each destination postalcode. The times are given in workdays. Products vary in production and delivery days. Special rules in christmas and easter... <u>NB! -1 indicates it is possible to deliver, but time is unknown.</u>
/Products/Product/PriceZoneForPostalCode/*	List of price zones for postal code. NB! Does not equal the Postal service' own zone structure. These zones are computed for the quickest possible parsing by clients. <u>Do not hard-code or expect names for zones. Zone names may change without notification.</u>
/Products/Product/Prices/*	Based on freightweight and price zone. <u>Price is given without TAX.</u> Either integer or period-separated decimal i.e. "72", "6.40"