

1 Introduction

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1.1 This document

This document contains documentation for customers who want a programming interface with Schenker web services (for only the Norwegian customers at the moment).

Changelog

Date	Responsible	Comments on change
1. January 2007	Tore Gard	-Redesign of this document -PriceAndTimeTable webservice introduced
11. April 2007	Tore Gard	Price And Time Table -Change of URI address to the WSDL document -All integer, date and decimal values IS NOT optional. Default values must be set.
12. April 2007	Tore Gard	Track & Trace ProductCode (ProduktKD) gives code instead of tekstvalue. Added ProduktKDTxt=old ProduktKD (text value)
7. January 2013	Frode Gregersen	Updated layout and logo.
4. April 2014	Frode Gregersen	Added returninformation to the Track&Trace service: GPS-position, orderreference, Co2-emission and shipment-status.
30. April 2014	Frode Gregersen	Added list of observations.
16. May 2014	Frode Gregersen	Updated description of priceAndTimeTable result.
24. November 2014	Frode Gregersen	Updated description of unitcode in priceAndTime.
24. November 2014	Frode Gregersen	Added a new method for price and time table, V2, with 3 new arguments for measures.
4. August 2015	Frode Gregersen	Tables in chapter 3 is translated into English.
26. October 2015	Frode Gregersen	Added sections for URL-services. NB! Only in norwegian.
26. October 2015	Frode Gregersen	Productcode and goodstype is updated
21. December 2015	Frode Gregersen	Productcode parcel removed

With a programming developer tools that support webservice, like the free programming development tool Visual Studio Express, Eclipse, Netbeans (<http://www.netbeans.org>), or other SOA friendly programming architecture, these webservices may be the integration solution you are looking for.

For the moment we support following services:

- Track and Trace (domestic)
- Track and Trace with POD (domestic)
- Price and Timetable (domestic)

If you want a list of servicemethodes, go to this web-adress:

<http://webservices.eschenker.no/PublicMethodes.aspx>

Schenker Norway Webservices

You must have a valid **user** and **password** to use these services.

The following operations are supported. For a formal definition, please review the [Service Description](#).

- [PriceAndTimeTable](#)
Price and timetable
- [TrackAndTrace](#)
With this services You can track and trace on a given item observed in Norway. Input is shipment number, consignment number or collinumber. Yoy MUST use a valid User and Password , given by Linjegods
- [TrackAndTracePODs](#)
This service gives You one or more POD URI's to tiff images. Input is shipment number, consignment number or collinumber

Figur 1. Overview of the public Schenker webservices

1.2 What you need

- Connection to the internet
- Knowledge of using web service and programming tools (see <http://www.netbeans.org> for free tool)
- The WSDL document. The url to WSDL document which specifies the interface to Schenker Web Service interface. The WSDL details the service's available methods and parameter types.
- The WSDL web-adress.
<http://webservices.eschenker.no/PublicMethodes.aspx?WSDL>
- A user and password given by Schenker AS with the right access

2 Track & Trace

With this services you can track&trace on a given item observed in Norway.

2.1 TrackAndTrace

Method name : TrackAndTrace

Input:

Username: User

password: Password

id: Shipment number, consignment number or collinumber

The ID can have 10, 11, 15 or 17 digits (shipment, consignment number)

View soap request structure body:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:lin="LinjegodsWebServices">
  <soapenv:Header/>
  <soapenv:Body>
    <lin:TrackAndTrace>
      <lin:username>?</lin:username>
      <lin:password>?</lin:password>
      <lin:id>?</lin:id>
    </lin:TrackAndTrace>
  </soapenv:Body>
</soapenv:Envelope>
```

Respons information:

Response Code	Response Message	Status
00	Everything is ok (Ok a shipment where found)	Implemented
1	No error, but shipment not found	Implemented
10	Invalid request (wrong input arguments)	Implemented
11	Invalid user/password	Implemented
12	User have no access to this service	Implemented
20	Internal Schenker error (validation rule or database message)	Implemented
21	Schenker Service closed	Not implemented
100	No error, but POD missing	Implemented

View soap response structure:

...

```
<soap:Body>
  <TrackAndTraceResponse xmlns="LinjegodsWebServices">
    <TrackAndTraceResult>
      <ResponseCode>00</ResponseCode>
      <ResponseMessage>Everything is ok</ResponseMessage>
      <AmountOfShipments>1</AmountOfShipments>
      <Shipments>
        <Shipment>
          <AmountOfPods>1</AmountOfPods>
          <AmountOfKollies>4</AmountOfKollies>
          <ShipmentMessage>Funnet</ShipmentMessage>
          <Fraktbrevnr>4064273716</Fraktbrevnr>
          <SendersRef>01920427490</SendersRef>
          <SendKundenv>Killroy</SendKundenv>
          <ProduktKD>K</ProduktKD>
          <ProduktKDTxt>Stykk.1-k</ProduktKDTxt>
          <IlevStedNr>0661</IlevStedNr>
          <PostStednv>OSLO</PostStednv>
          <InnlevDt>2006-12-14T00:00:00</InnlevDt>
          <UtlevDt>2006-12-15T00:00:00</UtlevDt>
          <UtlevKI>16.54</UtlevKI>
          <UlevSignNv></UlevSignNv>
          <Vekt>12</Vekt>
          <Volum>113</Volum>
          <Kolli>1</Kolli>
          <MottKundenv>Sappa AS</MottKundenv>
          <UlevAdrNv>NYE VAKSvein 3</UlevAdrNv>
          <UlevAdrNv2></UlevAdrNv2>
          <UtlevStedNr>1395</UtlevStedNr>
          <UtlevStedNv>HVALSTAD</UtlevStedNv>
          <GiroKidTx>67204-67490</GiroKidTx>
          <GarOppfyltJn>Ja</GarOppfyltJn>
          <AmountOfKolliesDelivered>4</AmountOfKolliesDelivered>
          <NetFreight>260</NetFreight>
          <CollectionSurcharge>0</CollectionSurcharge>
          <OrdreReferanse>420781</OrdreReferanse>
          <SendingTilstandKd>5</SendingTilstandKd>
          <SendingTilstand>Delivered</SendingTilstand>
          <TilstandAvvikJN>Nei</TilstandAvvikJN>
          <UtslippCo2Kg>0.0034034588</UtslippCo2Kg>
          <Documents>
            <PODs>
              <POD>
                <ConsignmentNo>4063479716</ConsignmentNo>
                <DocumentType>Utleveringsdokument tilgjengelig:</DocumentType>
                <RegDT>2006-12-18T11:32:00</RegDT>
                <URIToTiffImage>
                  http://www.linjegods.no/linjegods/DesktopModules/StreamImages.aspx?Command=tracandtrace&fraktbrevnr=4064279716&index=0
                </URIToTiffImage>
              </POD>
            </PODs>
          </Documents>
          <ColliObservations>
            <ColliObservation>
              <kollinr>019204674900011395</kollinr>
              <obstype>Mål/vekt</obstype>
              <obsdato>2006-12-14T16:24:00</obsdato>
              <obssted>OSLO</obssted>
              <TilleggsInfo></TilleggsInfo>
            </ColliObservation>
          </ColliObservations>
        </Shipment>
      </Shipments>
    </TrackAndTraceResult>
  </TrackAndTraceResponse>
</soap:Body>
```

```

<Breddegrad>59.8661</Breddegrad>
<Lengdegrad>9.8313</Lengdegrad>
</ColliObservation>
<ColliObservation>
  <kollinr>019204674900011395</kollinr>
  ...
  ...
</soap:Envelope>

```

Note:

- The response may contain one or many shipments
- POD (Proof Of Delivery) is enclosed if available
- Colli observations are listed

Table of shipmentstatuses

Code	Text	Description
1	Registered	
2	Submitted	
3	Delayed	
4	Partial delivered	Some of the collies are delivered, but not all.
5	Delivered	
6	Partially out for delivery	Some of the collies are loaded for distribution, but not all.
G	Arrived terminal	
I	Distribution halt	Probably delayed.
K	At delivery terminal	At local storage. Check TilstandAvvikJN to determine if this is a deviation or not.
M	Out for delivery	
Q	Not loaded	Was planned to be loaded.
R	Sorted wrong route	Sent wrong. Probably delayed.
S	Delayed	
U	Returned terminal	
Z	Tried delivered	

Table of observations

Code	Text	Description
A	Collected at shipper	
B	Loaded by shipper	
D	Delivered to terminal by shipper	
E	Transferred sent terminal	
F	Arrived at terminal	
G	Arrived at terminal	
H	Dimensions and weight measured	
I	At terminal	
K	Entered storage	
L	Loaded for linehaul	
M	Loaded on delivery vehicle	
N	Picked up by consignee	
O	Delivered to consignee	
P	Out from storage	
Q	Missed linehaul	
R	Sent to wrong terminal	
S	Missed linehaul	
T	Delivered to agent	
U	Returned terminal	
V	Direct delivery	
W	Delivered to 3rd party	
X	Redispatch	
Y	At terminal	
Z	Delivery attempted	Not succeeded
0	Collected at shipper	
1	Collected for distribution	
2	Delivered to consignee	
3	Delivered wo. receipt	
4	Delivered at terminal	
5	Picked up at terminal	
6	Returned to shipper	

2.2 TrackAndTracePods

This service gives you one or more POD URI's to tiff images. Input is shipment number, consignment number or collinumber. Arguments is given as documented in chapter 2.1:

Methode name: TrackAndTracePods

Input:

username: User

password: Password

id: Shipment number, consignment number or collinumber

View soap response structure:

```
<soap:Body>
  <TrackAndTracePODsResponse xmlns="LinjegodsWebServices">
    <TrackAndTracePODsResult>
      <ResponseCode>00</ResponseCode>
      <ResponseMessage>Everything is ok</ResponseMessage>
      <AmountOfPODs>1</AmountOfPODs>
      <PODs>
        <POD>
          <ConsignmentNo>4064234716</ConsignmentNo>
          <DocumentType>Utleveringsdokument tilgjengelig:</DocumentType>
          <RegDT>2006-12-18T11:32:00</RegDT>
          <URIToTiffImage>http://myschenker.linjegods.no/linjegods/DesktopModules/StreamImages.aspx?Command=tracandtrace&fraktbrevnr=4064273333&index=0
          </URIToTiffImage>
        </POD>
      </PODs>
    </TrackAndTracePODsResult>
  </TrackAndTracePODsResponse>
</soap:Body>
```


3 Price and Time table

With this service you can calculate the freight price, and transportation times.

3.1 PriceAndTimeTable

Methode name: PriceAndTimeTable

Arguments to the webservice:

Argument	Optional	Description
Customnumber	No	Customer number (6 or 7 digits)
User	No	Contact Schenker to get an internet service (mySchenker.no) user
Password	No	Contact Schenker to get an internet service (mySchenker.no) user
ConsignorPostCode	No	Submission postal code
ConsigneePostCode	No	Delivery postal code
Weight	No	Weight (integer) NB! For parcel price, the weight can not exceed 35 kg.
Volumd3	No	Integer. Volume is set to 0 if not provided.
ProductCode	Yes	Productcode must be S = Groupage (default) L = Express B = Partload (Delivery date is not calculated) D = Direct distribution (Delivery date is not calculated)
TypeOfGoods	Yes	Goodstype must be G=Regular goods (default) F=Dangerous goods T=Heat controlled goods V=Volume goods E=Return of packaging
PaymentCode	Yes	Paymentcode must be 0=Payed by consignee 3=Payed by shipper (default) 4=Giro service 5=Payed by other
HandleCodeOfPacks	Yes	Process code. Must be <empty> = no value (default), E = Shipment return P = Private ordinary Q = like P and return of packaging R = like P and return of old device S = like P and Q + R T = Private at work Z = Schenker special
NumberOfPackages	Yes	Number of packages. Impact on Private delivery surcharge. Assumes that process code is set to private delivery (P,Q,R,S,T). Set to 0 if not provided. If not provided, UnitCode/UnitNumbers are used.
UnitNumbers	Yes	Number of units. Set to 0 if not provided.

		NB! UnitCode must also be provided. If loadingmeters, UnitNumbers is specified in desimeters
UnitCode	Yes	51..99 - According to customer agreement KL - Packages PL - Pallets PP - Palletplaces LM - Loadingmeters
AcceptanceDate	No	Submission date

View soap request structure:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:lin="LinjegodsWebServices">
  <soapenv:Header/>
  <soapenv:Body>
    <lin:PriceAndTimeTable>
      <lin:username>user</lin:username>
      <lin:password>password</lin:password>
      <lin:kriterie>
        <lin:Customnumber>customernumberr</lin:Customnumber>
        <lin:PaymentCode>3</lin:PaymentCode>
        <lin:Weight>10</lin:Weight>
        <lin:Volumd3>0</lin:Volumd3>
        <lin:ProductCode>S</lin:ProductCode>
        <lin:TypeOfGoods>G</lin:TypeOfGoods>
        <lin:HandleCodeOfPackes></lin:HandleCodeOfPackes>
        <lin:ConsignorPostCode>7000</lin:ConsignorPostCode>
        <lin:ConsigneePostCode>8000</lin:ConsigneePostCode>
        <lin:AcceptanceDate>2006-11-07T00:00:00</lin:AcceptanceDate>
        <lin:NumberOfPackages>3</lin:NumberOfPackages>
        <lin:UnitNumbers>0</lin:UnitNumbers>
        <lin:UnitCode>0</lin:UnitCode>
      </lin:kriterie>
    </lin:PriceAndTimeTable>
  </soapenv:Body>
</soapenv:Envelope>
```

View soap response structure:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <soap:Body>
    <PriceAndTimeTableResponse xmlns="LinjegodsWebServices">
      <PriceAndTimeTableResult>
        <ResponseCode>00</ResponseCode>
        <ResponseMessage>OK</ResponseMessage>
        <price>
          <Messageld>0</Messageld>
          <Message/>
          <Grossfreight>277</Grossfreight>
          <Discount>77</Discount>
          <Freight>0.0</Freight>
          <Netfreight>0.0</Netfreight>
          <PrivateDeliverySurcharge>0.0</PrivateDeliverySurcharge>
          <ParcelVolumSurcharge>0.0</ParcelVolumSurcharge>
          <GiroServiceSurcharge>0.0</GiroServiceSurcharge>
          <ConsigneeToPay>0.0</ConsigneeToPay>
          <CollectionSurcharge>0.0</CollectionSurcharge>
        </price>
        <timeTable>
          <ScheduledDeliveryTime>2006-11-08T00:00:00</ScheduledDeliveryTime>
          <Messageld>0</Messageld>
          <Message/>
        </timeTable>
      </PriceAndTimeTableResult>
    </PriceAndTimeTableResponse>
  </soap:Body>
</soap:Envelope>
```

If an error occurs, ResponseCode og ResponseMessage will be provided, if not they will be 00/OK.

PriceAndTimeTableResult

Price	Norwegian	Description
Messageld		
Message		Eventual message
Grossfreight	Bruttofrakt	
Discount	Rabatt	
Freight	Frakt	
Netfreight	Nettofrakt	
PrivateDeliverySurcharge	Privatleveringsgebyr	
ParcelVolumSurcharge	Volumtillegg	
GiroServiceSurcharge	Giroservicegebyr	
ConsigneeToPay	Betalingsoverføringsgebyr	
CollectionSurcharge	Hentetillegg	May apply
TimeTable		NB! This part might not be returned, depending on if a scheduled plan exists.

ScheduledDeliveryTime	Planlagt leveringsdag	Planned delivery date
Message		
Message	Eventuell melding	Eventual message

Calculation of total freight :

Only one of these two possibilities is possible:

- Freight is specified in Netfreight
- Freight is specified in Freight

If freight is specified as Netfreight, Grossfreight and Discount might be specified.
Netfreight is then Grossfreight - Discount.

Any surcharges and additions must be added.

CollectionSurcharge might be added, following own rules.

Total freight will be freight + surcharges/additions + possibly collectionsurcharge.

3.2 PriceAndTimeTableV2

This is a newer version of priceAndTimeTable. The input offers 3 new arguments, as shown in the table below. The return is identical.

Argument	Optional	Description
LengthCm	Yes*	Length in cm
WidthCm	Yes*	Width in cm
HeightCm	Yes*	Height in cm

* The measures must be provided to get a correct price if the product 1-kolli-pallet is to be used. Specify 0 if not provided. Either none or all must be provided.

4 URL til tjenester (REST style web service)

Disse tjenestene er laget for Schenker AS sine kunder som ønsker en knytning/integrering med Schenker AS sine webtjenester. Tjenestene baserer seg på at man oppgir en web adresse (URI). Schenker benytter domenet <https://www.myschenker.no>.

Tidligere benyttet vi domenet <http://myschenker.linjegods.no>. Dette fungerer fortsatt, men vil bli faset ut på ett tidspunkt ikke og bør ikke benyttes. Der støtter heller ikke HTTPs-protokollen.

Schenker tilbyr også webservicer (for sporing og fraktberegning. Her vil man få returnert noe mer informasjon, eksempelvis utleveringsseddel med kvittering for mottatt gods der dette finnes.

Følgende tjenester finnes i dag:

- Sporing
- Fraktberegning

4.1 URL Sporing

Kunde kan starte opp sporing direkte fra sine applikasjoner og få frem sporingsdata uten å gå gjennom kriteriebildet.

URL'en som en bruker er som følger:

`https://www.myschenker.no/srv_spor_kriterier.html?fraktnr=<parameter>`

Inngangparameter <parameter>

Parameterens navn <fraktnr> kan ha 10, 11, 15, 17, 18 siffer bak. Hvis parameterverdien er 10 eller 17 siffer antas det at det er et fraktbrevnummer. Er den 11 eller 15 siffer antas det at det er en senders referansenummer, og der den 18 siffer antas det at det er kollinummer. Får vi et annet antall siffer er det en feil.

Følgende meldinger kan komme avhengig av oppslagsbegrep:

- For 10 / 17 siffer Fraktbrevnummer nn..nn er ikke kjent hos Schenker.
- For 11 / 15 siffer Senders referanse nn..nn er ikke kjent hos Schenker.
- For 18 siffer Kollikode nn..nn er ikke kjent hos Schenker.

Dersom fraktnr. parameteret inneholder et annet antall siffer, kommer meldingen:

- Parameter må ha 10, 11, 15, 17 eller 18 siffer.

Alle disse meldinger betyr at systemet fungerer, men det ble ikke treff i oppslaget.

Retur

Schenker tjenesteside vil vises på samme måte som på web (mySchenker).

Retur meldinger

Schenker tjenesteside vil vises på samme måte som på web (mySchenker).

4.2 Url Fraktberegning

Dette avsnittet beskriver kort hvordan man bruker Url fraktberegningstjenesten som Schenker tilbyr kunder som ønsker en tetter integrasjon mellom sine og Schenker's IT systemer. Denne tjenesten beregner fraktkostnader og eventuelt utleveringsdato basert på oppgitt innlevert dato.

Begrensninger

Den tekniske løsningen baserer seg på at man har tilgang til internett og at kunde har programmeringskomponenter som kan kommunisere via http med Schenker's WEB server. Kunden gjør en forespørsel til Schenker's WEB server, og tilbake får kunden et XML dokument (Schema ikke definert). Det blir da kundens ansvar å viderebehandle (parse) dette dokumentet.

Inngangsparametere

For å kunne benytte tjenesten må kunden ha

- Schenkers internett bruker og passord
- Et eller flere kundenummer tilknyttet brukeren (bruker/passord)

Adresse til Schenkers fraktberegningstjeneste er:

<https://www.myschenker.no/Fraktberegning/Webgrensesnitt/Fraktberegning.aspx>

Domene navnet myschenker.linjegods.no vil bli erstattet av myschenker.no, og skal ikke benyttes.

Følgende innparametere må/kan man oppgi :

Innparameter	Obligatorisk	Valg/kommentar
send_kunde_nr	Ja	Kundenummer (6/7 siffer)
bruker	Ja	Kontakt Schenker hvis du mangler bruker på Schenkers internett tjenester
Passord	Ja	Kontakt Schenker hvis du mangler bruker på Schenker internett tjeneste
send_post_nr	Ja	
mott_post_nr	Ja	
virt_vekt_kg	Ja	Default 0 Vekt (heltall) NB ! For pakkepris kan ikke vekt overstige 35 kg

volum_d3	Nei	Default 0 Volum (Heltall) Hvis både mål og volum oppgis, må dette stemme overens.
produkt_kd	Nei	Produktkode må være <ul style="list-style-type: none"> - S= Stykkgoods (default) - L = Ekspress - B= Partigods (Utleveringsdato beregnes ikke) - D=Direkte distribusjon (Utleveringsdato beregnes ikke)
godstype_kd	Nei	Godstype må være <ul style="list-style-type: none"> - G=vanlig gods (default) - F= farlig gods - T= varmegods - V=volumgods - E=Embalasje i retur
send_bet_kd	Nei	Betalingskode må være <ul style="list-style-type: none"> - 3=sender betaler (default) - 4=giroservice
beh_kd	Nei	Behandlingskode må være <ul style="list-style-type: none"> - Tom = ingen(default) - P = privatlevering - Q = som P men med retur av emballasje - R = som Q men retur av gammelt apparat for destruksjon - S = gjenvinning, S=R+Q - T = privatlevering på jobb
kolli_an	Nei	Antall kolli. Får betydning for privatleveringsgebyret. Forutsetter at du har satt behandlingskode (beh_kd) til privatlevering (P,Q,R, S eller T).
enhet_an	Nei	Antall enheter NB ! enhet_an >0 går ikke hvis enhet_kd er tom Hvis lastemeter oppgis denne i desimeter
enhet_kd	Nei	Enhetskode NB! enhet_an >0 går ikke hvis enhet_kd er tom 51..99: Kundespesifikk KL: Kolli PL: Paller PP: Palleplasser LM: Lastemeter (i desimeter)
tilgj_dk1	Nei	Innlevert dato Default dagens dato. Må være på formatet DD.MM.ÅÅ F.eks 3 august 2014 tilsvarer 03.08.14
lengde_cm	Nei	Sendingens lengde, oppgitt i cm. Hvis både mål og volum oppgis, må dette stemme overens. Angi 0 hvis ikke oppgitt.
bredde_cm	Nei	Sendingens bredde, oppgitt i cm. Hvis både mål og volum oppgis, må dette stemme overens. Angi 0 hvis ikke oppgitt.
hoejde_cm	Nei	Sendingens høyde, oppgitt i cm. Hvis både mål og volum oppgis, må dette stemme overens. Angi 0 hvis

		ikke oppgitt.
--	--	---------------

Retur

Dette dokumentet kan deles i 3 deler:

- <melding/> xml element: Områdets "ret_kode" er satt til 0 hvis søket gikk bra.
- <pris/> xml element: Fraktberegningresultat.
- <leveringstid/> xml element: En eller flere leveringstidspunkter.

Et xml lignende resultat vises pakket inn i en i et <fraktberegning/> xml element. Siden det ikke eksisterer et Schema for dette xml lignende dokumentet, oppfordrer man til å bruke webservice tjenesten i stedet.

Et eksempel resultat vises i figur 1 (visning vist i en nettleser)

```
- <fraktberegning>
- <melding>
  <ret_kode>0</ret_kode>
  <ret_melding />
</melding>
- <pris>
  <kr_bruttopris>0</kr_bruttopris>
  <kr_rabatt>0</kr_rabatt>
  <kr_nettopris>0</kr_nettopris>
  <kr_hovedfrakt>0</kr_hovedfrakt>
  <kr_lokaltfrakt>0</kr_lokaltfrakt>
  <kr_avtalefrakt>3971</kr_avtalefrakt>
  <kr_hentetillegg>0,0</kr_hentetillegg>
  <kr_privatleveringsgebyr>0,0</kr_privatleveringsgebyr>
  <kr_volumtillegg_bedr_pakke>0,0</kr_volumtillegg_bedr_pakke>
  <kr_giroservicegebyr>0,0</kr_giroservicegebyr>
  <kr_bet_overfoeringsgebyr>0,0</kr_bet_overfoeringsgebyr>
</pris>
- <leveringstider>
  - <leveringstid dato_innlevering="">
    <dag_transporttid>0</dag_transporttid>
    <dato_utlevering>0</dato_utlevering>
  </leveringstid>
</leveringstider>
</fraktberegning>
```

Retur meldinger

<melding><ret_melding> gir en tekstlig beskrivelse av resultatet.

Eksempel URL Fraktberegning

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