

# Booking export pushpop

Export of all bookings made in merlin.merlinx.pl is based on push/pop services.

In bookings table there is 1 field with last modification time - we have to take care that every service writing to that table update that field everytime.

To check is if we have a key defined on that field for fast selecting.

Based on that we can settle the periodically run service to export all last changed bookings.

## Definition of webservice to send to

Definition where service need to send the info about booking status change is done on few levels

1. per agency (bookings made for this agency will be sent to defined webservice URL)
2. per operator (bookings made for this agency will be sent to defined webservice URL)

For consideration is how to handle groups - but that can be done in PUSH service directly with recognition of group leader.

## PUSH

After every booking make/change - we send info to defined webservice URL (based on agency and operator defined address).

Proposed info to be sent to configured webservice:

```
<bookingpushrequest>
  <agency>AgencyNr</agency>
  <consultant>ConsultantNr</consultant>
  <operator>
    <code></code>
    <name></name>
  </operator>
  <booking>BookingNr</booking>
  <basketNo></basketNo>
  <status></status>
</bookingpushrequest>
```

Possible status:

NEW, CHG, DEL

That gives a base for external service to POP booking informations

Mandatory fields:

agency, consultant, (operator and booking) or basketNo

Expected response is simple string 'ok', otherwise we assume an error occurred, and it will be logged, and sending will be repeated up to 5 times (in 1 min long intervals).

## POP

POP service gives a possibility to external web service to download all booking details depend on its type.

Request are to be sent to this service based on previous PUSH details send from our (merlinX)

service PUSH to clients webservice.

For PUSH/POP service we need an extra credentials that are only for Booking export PUSH/POP service.

Service use our sub-agency management. Gives possibility to 'mother' to POP their and their 'child' agency bookings using 1 credentials.

All communication is XML based

## Request

```
<?xml version='1.0'?>
<mds>
  <auth>
    <login>login</login>
    <pass>password</pass>
  </auth>
  <request>
    <conditions>
      <agency></agency>
      <operator></operator>
      <booking></booking>
      <basketNo></basketNo>
    </conditions>
  </request>
</mds>
```

Required fields:

login, pass, agency, (operator and booking) or basketNo

## Response

Not every fields/elements are mandatory in response. A list of mandatory fields is below each element.

## Header

```
<response>
  <responseStatus>status</responseStatus>
  <header>
    <agency>agencyNr</agency>
    <consultant>consultant</consultant>
    <createDateTime>YYYY-MM-DD HH:MM:SS</createDateTime>
    <modificationDateTime>YYYY-MM-DD HH:MM:SS</modificationDateTime>
    <bookingInfo>
      <bookingNo>bookingNR</bookingNo>
      <bookingStatus></bookingStatus>
      <operator>
        <code></code>
        <name></name>
      </operator>
      <pax>PaxNr</pax>
      <catalog></catalog>
      <price>PRICE</price>
      <currency>CURR</currency>
      <markup>
        <commision>
          <price>PRICE</price>
```

```

    <currency>CURR</currency>
  </commision>
  <margin>
    <price>PRICE</price>
    <currency>CURR</currency>
  </margin>
  <marginSub>
    <price>PRICE</price>
    <currency>CURR</currency>
  </marginSub>
</markup>
<pcc></pcc>
<ipcc></ipcc>
</bookingInfo>
<basketInfo>
  <basketNo></basketNo>
  <pax>PaxNr</pax>
  <price>PRICE</price>
  <currency>CURR</currency>
</basketInfo>
</header>

```

ELEMENTS (described below)

```
</response>
```

#### Mandatory fields:

agency, consultant, createDateTime, modificationDateTime, bookingInfo, basketInfo,

If request was sent with operator and booking fields filled, following fields will be additionally mandatory in answer:

bookingInfo block: bookingNo, bookingStatus, operator, pax, catalog, price, currency, markup, pcc, ipcc

basketInfo block: basketNo

Markup block may contains optional blocks: commision, margin, marginSub

If request was sent with basketNo field filled, following fields will be additionally mandatory in answer:

bookingInfo block: will remains empty

basketInfo block: basketNo, pax, price, currency

## ELEMENTS

### Flights

```

<flights>
  <flightlist>
    <flight>
      <id>1</id>
      <booking></booking>
      <operator>
        <code></code>
        <name></name>
      </operator>
      <status></status>
      <price>350</price>
    </flight>
  </flightlist>
</flights>

```

```

<currency>EUR</currency>
<markup></markup>
<pax>2</pax>
<adult></adult>
<child></child>
<infant></infant>
<departureFlightCode>WROLON</departureFlightCode>
<returnFlightCode></returnFlightCode>
<departureDate>2015-05-21</departureDate>
<returnDate></returnDate>
<segmentlist>
  <segment>
    <id>1</id>
    <departure>
      <code>WRO</code>
      <name>Wroclaw</name>
      <datetime>2015-05-21 10:22</datetime>
    </departure>
    <destination>
      <code>LON</code>
      <name>Londyn</name>
      <datetime>2015-05-21 11:32</datetime>
    </destination>
    <flightID>
      <code>FR3221</code>
      <number>3221</number>
    </flightID>
    <supplier>
      <code>FR</code>
      <name>Ryanair</name>
    </supplier>
  </segment>
</segmentlist>
</flight>
</flightlist>
</flights>

```

#### Mandatory fields:

In flightlist - at least 1 flight

In flight: id, outwardFlightCode, departureDate, pax, status, segmentlist

In segmentlist - at least 1 segment

In segment: id, departure - code, departure - datetime, destination - code, destination - datetime

## Hotels

```

<hotels>
  <hotellist>
    <hotel>
      <id>1</id>
      <code></code>
      <xCode></xCode>
      <name></name>
      <origName></origName>
      <city></city>
      <region></region>
      <country></country>
      <category></category>
      <localization>
        <lat></lat>
        <lng></lng>
      </localization>
    </hotel>
  </hotellist>
</hotels>

```

```

<localization>
  <room>
    <code></code>
    <name></name>
  </room>
  <service>
    <code></code>
    <name></name>
  </service>
  <supplier>
    <code></code>
    <name></name>
  </supplier>
  <arrivalDate></arrivalDate>
  <departureDate></departureDate>
  <pax>2</pax>
  <adult></adult>
  <child></child>
  <infant></infant>
  <price>350</price>
  <currency>EUR</currency>
  <markup></markup>
  <operator>
    <code></code>
    <name></name>
  </operator>
  <booking></booking>
  <status></status>
  <checkin>HH:MM</checkin>
  <checkout>HH:MM</checkout>
  <freeCancelation>YYYY-MM-DD HH:MM</freeCancelation>
</hotel>
</hotellist>
</hotels>

```

### Mandatory fields:

In hotellist - at least 1 hotel

In hotel: id, code, xCode, name, country, room - code, service - code, arrivalDate, departureDate, pax, status

## Services

```

<services>
  <servicelist>
    <service>
      <id>1</id>
      <type></type>
      <code></code>
      <name></name>
      <text></text>
      <inPrice></inPrice>
      <startDate></startDate>
      <endDate></endDate>
      <pax>2</pax>
      <adult></adult>
      <child></child>
      <infant></infant>
      <price>350</price>
      <currency>EUR</currency>
      <markup></markup>
    </service>
  </servicelist>
</services>

```

```

    <operator>
      <code></code>
      <name></name>
    </operator>
    <booking></booking>
    <status></status>
  </service>
</servicelist>
</services>

```

**Mandatory fields:**

In servicelist - at least 1 service

In service: id, code, startDate, endDate, pax, status

## Insurances

```

<insurances>
  <insurancelist>
    <insurance>
      <id>1</id>
      <code></code>
      <name></name>
      <text></text>
      <country></country>
      <supplier>
        <code></code>
        <name></name>
      </supplier>
      <startDate></startDate>
      <endDate></endDate>
      <pax>2</pax>
      <adult></adult>
      <child></child>
      <infant></infant>
      <price>350</price>
      <currency>EUR</currency>
      <markup></markup>
      <operator>
        <code></code>
        <name></name>
      </operator>
      <booking></booking>
      <status></status>
    </insurance>
  </insurancelist>
</insurances>

```

**Mandatory fields:**

In insurancelist - at least 1 insurance

In insurance: id, code, startDate, endDate, pax, status

## Parkings

```

<parkings>
  <parkinglist>
    <parking>
      <id>1</id>

```

```

<code></code>
<name></name>
<text></text>
<city></city>
<localization>
  <lat></lat>
  <lng></lng>
</localization>
<supplier>
  <code></code>
  <name></name>
</supplier>
<startDate></startDate>
<endDate></endDate>
<count>1</count>
<pax></pax>
<adult></adult>
<child></child>
<infant></infant>
<price>350</price>
<currency>EUR</currency>
<markup></markup>
<operator>
  <code></code>
  <name></name>
</operator>
<booking></booking>
<status></status>
</parking>
</parkinglist>
</parkings>

```

Mandatory fields:

In parkinglist - at least 1 parking

In parking: id, code, startDate, endDate, count, status

## Transfers

```

<transfers>
  <transferlist>
    <transfer>
      <id>1</id>
      <code></code>
      <name></name>
      <text></text>
      <outward>
        <departure>
          <code>WRO</code>
          <name>Wroclaw</name>
          <datetime>2015-05-21 10:22</datetime>
        </departure>
        <destination>
          <code>LON</code>
          <name>Londyn</name>
          <datetime>2015-05-21 11:32</datetime>
        </destination>
      </outward>
      <return>
        <departure>
          <code>WRO</code>

```

```

        <name>Wroclaw</name>
        <datetime>2015-05-21 10:22</datetime>
    </departure>
    <destination>
        <code>LON</code>
        <name>Londyn</name>
        <datetime>2015-05-21 11:32</datetime>
    </destination>
</return>
<outwardDate></outwardDate>
<returnDate></returnDate>
<pax></pax>
<adult></adult>
<child></child>
<infant></infant>
<price>350</price>
<currency>EUR</currency>
<markup></markup>
<operator>
    <code></code>
    <name></name>
</operator>
<booking></booking>
<status></status>
</transfer>
</transferlist>
</transfers>

```

#### Mandatory fields:

In transferlist - at least 1 transfer

In transfer: id, code, name, outward-departure-code, outward-departure-name, outward-departure-datetime, outward-destination-code, outward-destination-name, outward-destination-datetime, outwardDate, pax, status

## Passengers

```

<passengers>
  <passengerlist>
    <passenger>
      <id>1</id>
      <title></title>
      <name></name>
      <surname></surname>
      <dateofbirth></dateofbirth>
      <price></price>
      <currency></currency>
      <serviceAllocation></serviceAllocation>
      <nationality></nationality>
      <address>
        <addressLine1></addressLine1>
        <addressLine2></addressLine2>
        <addressLine3></addressLine3>
        <city></city>
        <zipCode></zipCode>
        <country></country>
      </address>
      <passport>
        <number></number>
        <valid></valid>
        <issuedBy></issuedBy>
      </passport>
    </passenger>
  </passengerlist>
</passengers>

```



```
</passport>
<email></email>
<phone></phone>
</passenger>
</passengerlist>
</passengers>
```

Mandatory fields:

In passengerlist - at least 1 passenger

In passenger: id, name, surname

## Payer

```
<payer>
  <title></title>
  <name></name>
  <surname></surname>
  <dateofbirth></dateofbirth>
  <nationality></nationality>
  <address>
    <addressLine1></addressLine1>
    <addressLine2></addressLine2>
    <addressLine3></addressLine3>
    <city></city>
    <zipCode></zipCode>
    <country></country>
  </address>
  <email></email>
  <phone></phone>
</payer>
```

Whole element 'payer' is not mandatory

Mandatory fields i payer:

name, surname