

在线分销产品
自动修改服务用户手册

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1. 概述

自动修改服务(AirBookModify)是中国航信在线分销平台统一解决方案中专门针对旅客订座记录（PNR）预定后操作、管理的接口产品。

自动修改服务为用户提供 PNR 特殊服务添加、PNR 备注信息添加、修改和删除、PNR 航段信息添加、PNR 旅行代码添加、PNR 其他服务信息添加、修改和删除、PNR 航段修改、PNR 航段信息修改、PNR 旅客证件信息修改、PNR 取消、PNR 分离、PNR 内容删除等功能。

2. 版本

主要内容	自动修改				
参考文档					
创建部门					
批准单					
版本号：					
批准人		批准人签字		批准日期	
文档控制					
版本	修改日期	修改内容描述	作者	批准人	批准日期
V1.0.0	2013.5.22	创建	刁华林		
V1.0.1	2013.9.16	修改	刁华林		
V1.0.2	2013.10.29	修改	刁华林		

3. 业务范围

提供对旅客订座记录（PNR）的基本操作，包括 PNR 特殊服务添加、PNR 备注信息添加和修改、PNR 航段信息添加、PNR 旅行代码添加、PNR 其他服务信息添加和修改、PNR 航段修改、PNR 航段信息修改、PNR 旅客证件信息修改、PNR 取消、PNR 分离、PNR 内容删除等操作。

4. 功能范围

- PNR 特殊服务添加
- PNR 备注信息添加
- PNR 备注信息修改
- PNR 备注信息删除
- PNR 航段信息添加
- PNR 旅行代码添加
- PNR 其他服务信息添加
- PNR 其他服务信息修改
- PNR 其他服务信息删除
- PNR 航段修改
- PNR 航段信息修改
- PNR 旅客证件信息修改
- PNR 取消
- PNR 分离
- PNR 内容删除

5. 接口说明

5.1 接口结构

5.1.1 请求结构

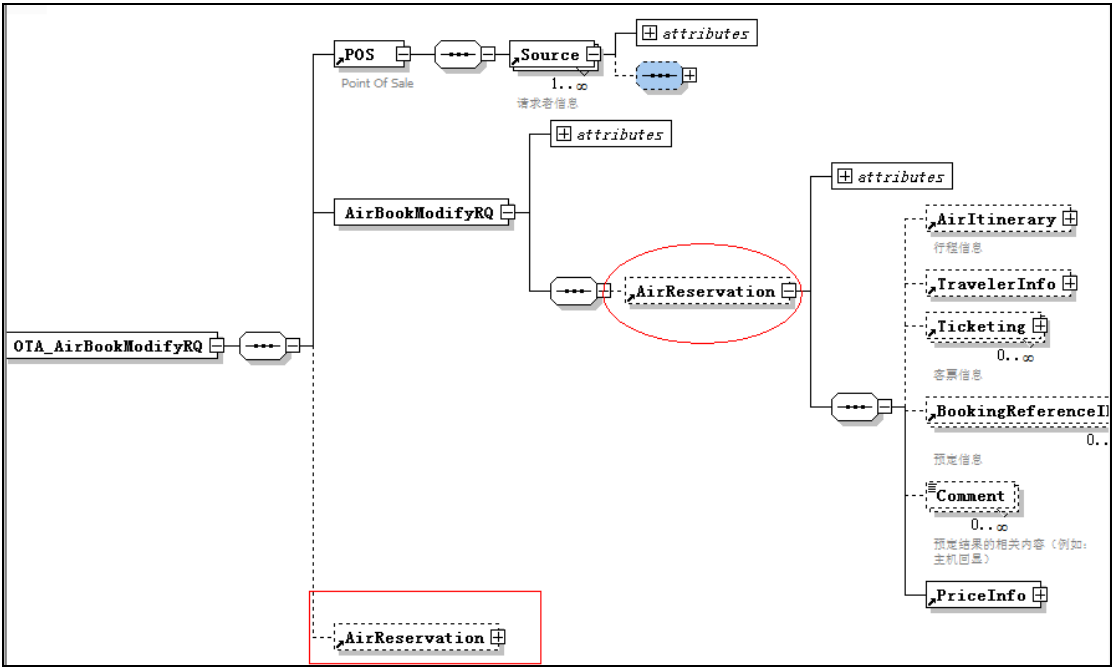


图 5.1 OTA_AirBookModifyRQ 节点结构

其中标识红色标识的节点结构如下：

AirBookModifyRQ 节点的 AirReservation 节点同 OTA_AirBookModifyRQ 节点下的的 AirReservation 节点结构一致，但是功能不同，椭圆中的节点放置需要操作的各种信息，方块圈住的地方放置的信息为 PNR 等相关信息。

5.1.2 响应结构

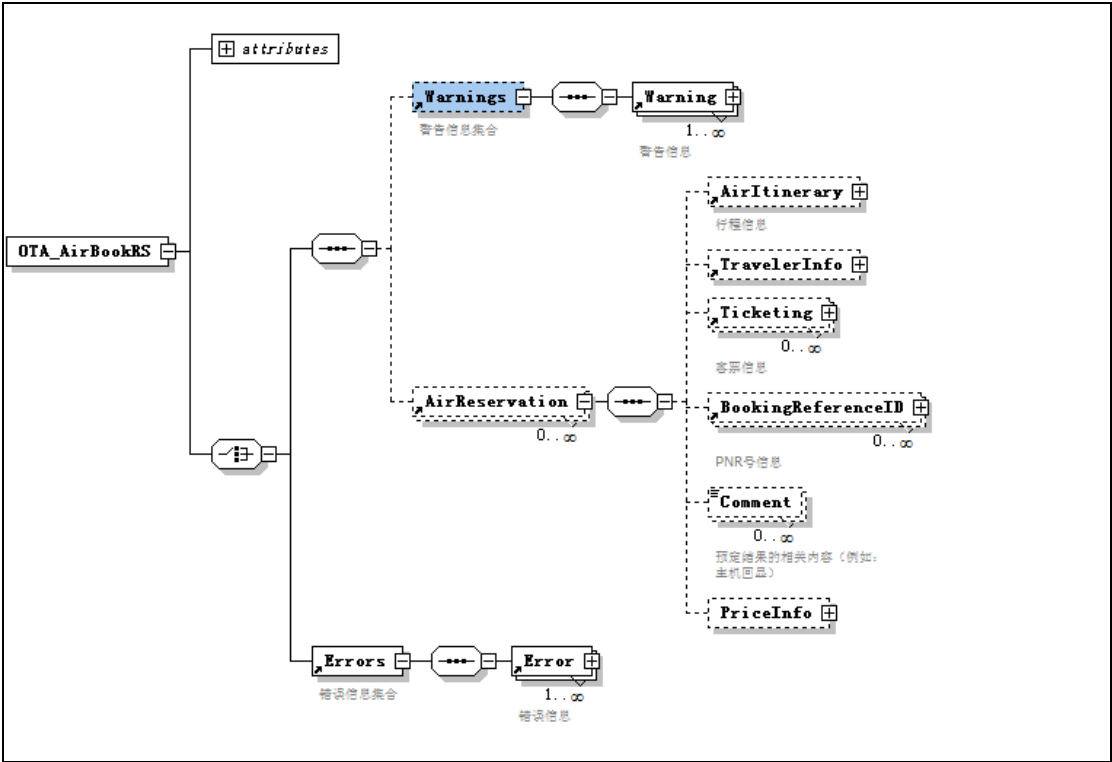


图 5.2 OTA_AirBookRS 结构

5.2 请求参数说明

元素名称	说明	Rep	类型	默认值	备注
OTA_AirBookModifyRQ		1			
AirBookModifyRQ		1			
@ModificationType		1			
AirReservation		0...n			AirBookModifyRQ 下节点
TravelerInfo	旅客信息	0...n			
AirTraveler		0...n			修改旅客证件信息请填写此项
@PassengerTypeCode	旅客类型	1	String		
PersonName		1	String		
@LanguageType	语言类型	1	String		
@Surname	姓名	1	String		
Document	证件信息	1	String		
@DocType	证件类型	1	String		

@DocID	证件编号	1	String	
TravelerRefNumber		0...n		
@RPH	序号	1	String	
SpecialReqDetails		0...1		修改其他项需要输入此项
SpecialRemarks		0...1		
SpecialRemark		0...1		
@Text	RMK 项	1	String	RMK 项修改需要输入此项
OtherServiceInformations		0...1		
OtherServiceInformation		1		
TravelerRefNumber		1		
@RPH		1	String	
Airline		0...1		部分 OSI 必须指定航司
@Code	航空公司	1	String	
Text	OSI 项	1	String	OSI 文本
Ticketing		0...1		
TicketItemInfo	客票信息	1	String	EI 项修改需要输入此项
@ExchangeInfo	EI	1		
PriceInfo	价格信息项	0..1		
ItinTotalFare		1		
TourCode	TC 项	1	String	TC 项需要输入此项
AirReservation		1		订单信息
BookingReferenceID		1		
@ID	PNR 号	1	String	
@ID_Context		0...1	String	

5.3 响应参数说明

元素名称	说明	Rep	类型	默认值	备注
OTA_AirBookRS		1			
Errors	错误信息	0..1			
Error		1			
@Code	错误代码	0..1			
@Type	错误类型	0..1			
@ShortText	错误详细信息	0..1			
Warnings		0..1			

Warning		0..1
@Type	警告信息	0..1
@ShortText	警告详细信息	0..1
@Code	警告代码	0..1
AirReservation		
@Comment	说明	

6. 错误说明

6.1 http 协议错误

由于接口为 HTTP 接口，HTTP 协议会返回 403 错误：

http 错误代码	说明
403	用户名、密码、IP 错误或无权限

6.2 接口错误

<Errors>节点记录了错误信息。错误信息分为两类：业务错误、系统错误。详细见下表：

系统错误

错误代码	错误描述	说明
-303	Inner service error!	内部服务错误

业务错误

错误代码	错误描述	说明
-1	Biz Error	业务异常
-303	inner service error	内部服务异常
-400	format of xml string is not valid	xml 内容格式错误
-402	input error	输入错误
-500	office code is empty	office 代码为空
-560	pnr locator is empty	pnr 号为空

7. 参考样例

7. 1K 位信息确认

输入样例

```
<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="PEK099"/>
  </POS>
  <AirBookModifyRQ ModificationType="SEGMENT_CONFIRM" ModificationInfo="K"/>
  <AirReservation>
    <BookingReferenceID ID="JZMH94"/>
  </AirReservation>
</OTA_AirBookModifyRQ>
```

对应输出：

```
<OTA_AirBookRS>
  <AirReservation>
    <Comment>1</Comment>
    <Comment>OK</Comment>
    <Comment>SUCCESS</Comment>
  </AirReservation>
</OTA_AirBookRS>
```

7. 2 添加 EI

输入样例：

```
<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="PEK099"/>
  </POS>
  <AirBookModifyRQ ModificationType="EI_ADD">
    <AirReservation>
      <Ticketing>
        <TicketItemInfo Endorsement="不得签转"/>
      </Ticketing>
    </AirReservation>
  </AirBookModifyRQ>
  <AirReservation>
    <BookingReferenceID ID="HSVM20"/>
  </AirReservation>
```

```
</OTA_AirBookModifyRQ>
```

对应输出：

```
<OTA_AirBookRS>
  <AirReservation>
    <Comment>1</Comment>
    <Comment>OK</Comment>
    <Comment>SUCCESS</Comment>
  </AirReservation>
</OTA_AirBookRS>
```

7.3 添加 OSI

输入样例：

```
<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="PEK099" />
  </POS>
  <AirBookModifyRQ ModificationType="OSI_ADD">
    <AirReservation>
      <TravelerInfo>
        <SpecialReqDetails>
          <OtherServiceInformations>
            <OtherServiceInformation>
              <TravelerRefNumber RPH="1" />
              <Airline Code="CA" />
              <Text>OSI</Text>
            </OtherServiceInformation>
          </OtherServiceInformations>
        </SpecialReqDetails>
      </TravelerInfo>
    </AirReservation>
  </AirBookModifyRQ>
  <AirReservation>
    <TravelerInfo>
      <AirTraveler PassengerTypeCode="ADT" AccompaniedByInfant="false">
        <PersonName LanguageType="ZH">
          <Surname>WANG/QIANG</Surname>
        </PersonName>
        <Document DocType="NI" DocID="650203200511220711" />
        <TravelerRefNumber RPH="1" />
      </AirTraveler>
```

```
</TravelerInfo>
  <BookingReferenceID ID="JMX042" />
</AirReservation>
</OTA_AirBookModifyRQ>
```

对应输出:

```
<OTA_AirBookRS>
  <AirReservation>
    <Comment>1</Comment>
    <Comment>OK</Comment>
    <Comment>SUCCESS</Comment>
  </AirReservation>
</OTA_AirBookRS>
```

7.4 添加 RMK

输入样例:

```
<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="PEK099" />
  </POS>
  <AirBookModifyRQ ModificationType="REMARK_ADD">
    <AirReservation>
      <TravelerInfo>
        <SpecialReqDetails>
          <SpecialRemarks>
            <SpecialRemark>
              <TravelerRefNumber RPH="1" />
              <FlightRefNumber RPH="1" />
              <Text>remark</Text>
            </SpecialRemark>
          </SpecialRemarks>
        </SpecialReqDetails>
      </TravelerInfo>
    </AirReservation>
  </AirBookModifyRQ>
</AirReservation>
  <AirItinerary>
    <OriginDestinationOptions>
      <OriginDestinationOption>
        <FlightSegment RPH="1" DepartureDateTime="2011-08-08T16:05:00"
          FlightNumber="1831" NumberInParty="1" Status="NN"
SegmentType="NORMAL">
```

```

        <OperatingAirline Code="CA" FlightNumber="1831" />
        <DepartureAirport LocationCode="PEK" />
        <ArrivalAirport LocationCode="SHA" />
        <MarketingAirline Code="CA" />
        <BookingClassAvail ResBookDesigCode="Y" />
    </FlightSegment>
</OriginDestinationOption>
</OriginDestinationOptions>
</AirItinerary>
<TravelerInfo>
    <AirTraveler PassengerTypeCode="ADT" AccompaniedByInfant="false">
        <PersonName LanguageType="ZH">
            <Surname>WANG/QIANG</Surname>
            </PersonName>
            <Document DocType="NI" DocID="650203200511220711" />
            <TravelerRefNumber RPH="1" />
        </AirTraveler>
    </TravelerInfo>
    <BookingReferenceID ID="HMMVMQ" />
</AirReservation>
</OTA_AirBookModifyRQ>

```

对应输出:

```

<OTA_AirBookRS>
  <AirReservation>
    <Comment>1</Comment>
    <Comment>OK</Comment>
    <Comment>SUCCESS</Comment>
  </AirReservation>
</OTA_AirBookRS>

```

7.5 添加 SSR-CHLD

输入样例:

```

<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="BJS988"/>
  </POS>
  <AirBookModifyRQ ModificationType="SSR_ADD">
    <AirReservation>
      <TravelerInfo>
        <SpecialReqDetails>
          <SpecialServiceRequests>

```

```

        <SpecialServiceRequest SSRCode="CHLD" Status="HK">
            <FlightRefNumber RPH="1"/>
            <TravelerRefNumber RPH="1"/>
        </SpecialServiceRequest>
    </SpecialServiceRequests>
</SpecialReqDetails>
</TravelerInfo>
</AirReservation>
</AirBookModifyRQ>
<AirReservation>
    <AirItinerary>
        <OriginDestinationOptions>
            <OriginDestinationOption>
                <FlightSegment      RPH="1"      DepartureDateTime="2012-03-22T14:38:20"
FlightNumber="1831" NumberInParty="1" Status="NN" SegmentType="NORMAL">
                    <OperatingAirline Code="CA" FlightNumber="1831"/>
                    <DepartureAirport LocationCode="PEK"/>
                    <ArrivalAirport LocationCode="SHA"/>
                    <MarketingAirline Code="CA"/>
                    <BookingClassAvail ResBookDesigCode="Y"/>
                </FlightSegment>
            </OriginDestinationOption>
        </OriginDestinationOptions>
    </AirItinerary>
</TravelerInfo>
    <AirTraveler PassengerTypeCode="CHD">
        <PersonName LanguageType="ZH">
            <Surname>小明</Surname>
            <PersonName>
                <TravelerRefNumber RPH="1"/>
            </PersonName>
        </AirTraveler>
    </TravelerInfo>
    <BookingReferenceID ID="HS3BM7"/>
</AirReservation>
</OTA_AirBookModifyRQ>

```

对应输出：

```

<OTA_AirBookRS>
    <AirReservation>
        <Comment>1</Comment>
        <Comment>OK</Comment>
        <Comment>SUCCESS</Comment>
    </AirReservation>
</OTA_AirBookRS>

```

7.6 添加 SSR-DOCS

输入样例：

```
<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="PEK099"/>
  </POS>
  <AirBookModifyRQ ModificationType="SSR_ADD">
    <AirReservation>
      <TravelerInfo>
        <SpecialReqDetails>
          <SpecialServiceRequests>
            <SpecialServiceRequest SSRCode="DOCS" ServiceQuantity="1" Status="NN"
RPH="1">
              <Airline Code="CA"/>
              <TravelerRefNumber RPH="1"/>
            </SpecialServiceRequest>
          </SpecialServiceRequests>
        </SpecialReqDetails>
      </TravelerInfo>
    </AirReservation>
  </AirBookModifyRQ>
  <AirReservation>
    <TravelerInfo>
      <AirTraveler PassengerTypeCode="ADT">
        <PersonName LanguageType="ZH">
          <Surname>李四</Surname>
        </PersonName>
        <Document DocType="PP" DocTypeDetail="P" DocID="G12324234"
DocIssueCountry="CN" DocHolderNationality="CN" BirthDate="1982-07-09" Gender="MALE"
ExpireDate="2030-09-08" RPH="1">
          <DocHolderFormattedName>
            <GivenName>SI</GivenName>
            <Surname>LI</Surname>
          </DocHolderFormattedName>
        </Document>
        <TravelerRefNumber RPH="1"/>
      </AirTraveler>
    </TravelerInfo>
    <BookingReferenceID ID="HSVM20"/>
  </AirReservation>
</OTA_AirBookModifyRQ>
```

对应输出：

```
<OTA_AirBookRS>
  <AirReservation>
    <Comment>1</Comment>
    <Comment>OK</Comment>
    <Comment>SUCCESS</Comment>
  </AirReservation>
</OTA_AirBookRS>
```

7.7 添加 SSR-FQTV

输入样例：

```
<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="BJS988" />
  </POS>
  <AirBookModifyRQ ModificationType="SSR_ADD">
    <AirReservation>
      <TravelerInfo>
        <SpecialReqDetails>
          <SpecialServiceRequests>
            <SpecialServiceRequest SSRCode="FQTV"
              Status="HK">
              <Airline Code="CA" />
              <Text>CA185336034</Text>
              <TravelerRefNumber RPH="1" />
            </SpecialServiceRequest>
          </SpecialServiceRequests>
        </SpecialReqDetails>
      </TravelerInfo>
    </AirReservation>
  </AirBookModifyRQ>
  <AirReservation>
    <TravelerInfo>
      <AirTraveler PassengerTypeCode="ADT" AccompaniedByInfant="false">
        <PersonName LanguageType="ZH">
          <Surname>李明</Surname>
        </PersonName>
        <TravelerRefNumber RPH="1" />
      </AirTraveler>
    </TravelerInfo>
    <BookingReferenceID ID="HS381L" />
  </AirReservation>
</OTA_AirBookModifyRQ>
```



```
</AirReservation>
</OTA_AirBookModifyRQ>
```

对应输出:

```
<OTA_AirBookRS>
  <AirReservation>
    <Comment>1</Comment>
    <Comment>OK</Comment>
    <Comment>SUCCESS</Comment>
  </AirReservation>
</OTA_AirBookRS>
```

7.8 添加 SSR-SPML

输入样例:

```
<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="PEK099" />
  </POS>
  <AirBookModifyRQ ModificationType="SSR_ADD">
    <AirReservation>
      <TravelerInfo>
        <SpecialReqDetails>
          <SpecialServiceRequests>
            <SpecialServiceRequest SSRCode="SPML"
              Status="NN">
              <Text>NOSALT</Text>
              <FlightRefNumber RPH="1" />
              <TravelerRefNumber RPH="1" />
            </SpecialServiceRequest>
          </SpecialServiceRequests>
        </SpecialReqDetails>
      </TravelerInfo>
    </AirReservation>
  </AirBookModifyRQ>
  <AirReservation>
    <AirItinerary>
      <OriginDestinationOptions>
        <OriginDestinationOption>
          <FlightSegment RPH="1" DepartureDateTime="2011-08-08T16:52:01"
            FlightNumber="1831" NumberInParty="1" Status="NN"
            SegmentType="NORMAL">
            <OperatingAirline Code="CA" FlightNumber="1831" />
            <DepartureAirport LocationCode="PEK" />
```

```

        <ArrivalAirport LocationCode="SHA" />
        <MarketingAirline Code="CA" />
        <BookingClassAvail ResBookDesigCode="Y" />
    </FlightSegment>
</OriginDestinationOption>
</OriginDestinationOptions>
</AirItinerary>
<TravelerInfo>
    <AirTraveler PassengerTypeCode="ADT" AccompaniedByInfant="false">
        <PersonName LanguageType="ZH">
            <Surname>WANG/QIANG</Surname>
            </PersonName>
            <Document DocType="NI" DocID="650203200511220711" />
            <TravelerRefNumber RPH="1" />
        </AirTraveler>
    </TravelerInfo>
    <BookingReferenceID ID="JMX0QV" />
</AirReservation>
</OTA_AirBookModifyRQ>

```

对应输出：

```

<OTA_AirBookRS>
  <AirReservation>
    <Comment>1</Comment>
    <Comment>OK</Comment>
    <Comment>SUCCESS</Comment>
  </AirReservation>
</OTA_AirBookRS>

```

7.9 添加 SSR-UMNR

输入样例：

```

<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="BJS988"/>
  </POS>
  <AirBookModifyRQ ModificationType="SSR_ADD">
    <AirReservation>
      <TravelerInfo>
        <SpecialReqDetails>
          <SpecialServiceRequests>
            <SpecialServiceRequest SSRCode="UMNR" Status="NN">
              <Text>UM7</Text>
              <FlightRefNumber RPH="1"/>
            </SpecialServiceRequest>
          </SpecialServiceRequests>
        </SpecialReqDetails>
      </TravelerInfo>
    </AirReservation>
  </AirBookModifyRQ>
</OTA_AirBookModifyRQ>

```

```

        <TravelerRefNumber RPH="1"/>
        </SpecialServiceRequest>
    </SpecialServiceRequests>
    </SpecialReqDetails>
</TravelerInfo>
</AirReservation>
</AirBookModifyRQ>
<AirReservation>
    <AirItinerary>
        <OriginDestinationOptions>
            <OriginDestinationOption>
                <FlightSegment      RPH="1"      DepartureDateTime="2012-03-12T14:22:21"
FlightNumber="1831" NumberInParty="1" Status="NN" SegmentType="NORMAL">
                    <OperatingAirline Code="CA" FlightNumber="1831"/>
                    <DepartureAirport LocationCode="PEK"/>
                    <ArrivalAirport LocationCode="SHA"/>
                    <MarketingAirline Code="CA"/>
                    <BookingClassAvail ResBookDesigCode="Y"/>
                </FlightSegment>
            </OriginDestinationOption>
        </OriginDestinationOptions>
    </AirItinerary>
</TravelerInfo>
    <AirTraveler PassengerTypeCode="ADT" AccompaniedByInfant="false">
        <PersonName LanguageType="ZH">
            <Surname>WANG/QIANG</Surname>
        </PersonName>
        <Document DocType="NI" DocID="650203200511220711"/>
        <TravelerRefNumber RPH="1"/>
    </AirTraveler>
</TravelerInfo>
    <BookingReferenceID ID="JDGM1X"/>
</AirReservation>
</OTA_AirBookModifyRQ>

```

对应输出：

```

<OTA_AirBookRS>
    <AirReservation>
        <Comment>1</Comment>
        <Comment>OK</Comment>
        <Comment>SUCCESS</Comment>
    </AirReservation>
</OTA_AirBookRS>

```

7.10 添加 TC

输入样例：

```
<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="PEK099" />
  </POS>
  <AirBookModifyRQ ModificationType="TC_ADD">
    <AirReservation>
      <PriceInfo>
        <ItinTotalFare>
          <TourCode>IT1CA1BJS187</TourCode>
        </ItinTotalFare>
      </PriceInfo>
    </AirReservation>
  </AirBookModifyRQ>
  <AirReservation>
    <BookingReferenceID ID="JMX043" />
  </AirReservation>
</OTA_AirBookModifyRQ>
```

对应输出：

```
<OTA_AirBookRS>
  <AirReservation>
    <Comment>1</Comment>
    <Comment>OK</Comment>
    <Comment>SUCCESS</Comment>
  </AirReservation>
</OTA_AirBookRS>
```

7.11 添加航段

输入样例：

```
<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="PEK099" />
  </POS>
  <AirBookModifyRQ ModificationType="SEGMENT_ADD">
    <AirReservation>
      <AirItinerary>
        <OriginDestinationOptions>
          <OriginDestinationOption>
```

```

        <FlightSegment DepartureDateTime="2011-08-06T15:55:52"
            FlightNumber="1858"          NumberInParty="1"          Status="NN"
SegmentType="NORMAL">
            <OperatingAirline Code="CA" FlightNumber="1858" />
            <DepartureAirport LocationCode="SHA" />
            <ArrivalAirport LocationCode="PEK" />
            <MarketingAirline Code="CA" />
            <BookingClassAvail ResBookDesigCode="Y" />
        </FlightSegment>
    </OriginDestinationOption>
</OriginDestinationOptions>
</AirItinerary>
</AirReservation>
</AirBookModifyRQ>
<AirReservation>
    <BookingReferenceID ID="JMX0D9" />
</AirReservation>
</OTA_AirBookModifyRQ>

```

对应输出：

```

<OTA_AirBookRS>
  <AirReservation>
    <Comment>1</Comment>
    <Comment>OK</Comment>
    <Comment>SUCCESS</Comment>
  </AirReservation>
</OTA_AirBookRS>

```

7.12 修改航段

输入样例：

```

<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="PEK099" />
  </POS>
  <AirBookModifyRQ ModificationType="SEGMENT_MODIFY">
    <AirReservation>
      <AirItinerary>
        <OriginDestinationOptions>
          <OriginDestinationOption>
            <FlightSegment DepartureDateTime="2011-08-06T16:19:07"
              FlightNumber="1858"          NumberInParty="1"          Status="NN"
SegmentType="NORMAL">

```

```

        <OperatingAirline Code="CA" FlightNumber="1858" />
        <DepartureAirport LocationCode="SHA" />
        <ArrivalAirport LocationCode="PEK" />
        <MarketingAirline Code="CA" />
        <BookingClassAvail ResBookDesigCode="Y" />
    </FlightSegment>
</OriginDestinationOption>
</OriginDestinationOptions>
</AirItinerary>
</AirReservation>
</AirBookModifyRQ>
<AirReservation>
    <AirItinerary>
        <OriginDestinationOptions>
            <OriginDestinationOption>
                <FlightSegment DepartureDateTime="2011-08-05T16:18:49"
                    FlightNumber="1831"          NumberInParty="1"          Status="NN"
SegmentType="NORMAL">
                    <OperatingAirline Code="CA" FlightNumber="1831" />
                    <DepartureAirport LocationCode="PEK" />
                    <ArrivalAirport LocationCode="SHA" />
                    <MarketingAirline Code="CA" />
                    <BookingClassAvail ResBookDesigCode="Y" />
                </FlightSegment>
            </OriginDestinationOption>
        </OriginDestinationOptions>
    </AirItinerary>
    <BookingReferenceID ID="HMVMCD" />
</AirReservation>
</OTA_AirBookModifyRQ>

```

对应输出：

```

<OTA_AirBookRS>
    <AirReservation>
        <Comment>1</Comment>
        <Comment>OK</Comment>
        <Comment>SUCCESS</Comment>
    </AirReservation>
</OTA_AirBookRS>

```

7.13 修改证件号

输入样例：

```

<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="PEK099" />
  </POS>
  <AirBookModifyRQ ModificationType="PASSENGER_FOID_MODIFY">
    <AirReservation>
      <TravelerInfo>
        <AirTraveler PassengerTypeCode="ADT"
          AccompaniedByInfant="false">
          <PersonName LanguageType="ZH">
            <Surname>WANG/QIANG</Surname>
          </PersonName>
          <Document DocType="NI" DocID="220204195901192717" />
          <TravelerRefNumber RPH="1" />
        </AirTraveler>
      </TravelerInfo>
    </AirReservation>
  </AirBookModifyRQ>
  <AirReservation>
    <BookingReferenceID ID="HS380J" />
  </AirReservation>
</OTA_AirBookModifyRQ>

```

对应输出：

```

<OTA_AirBookRS>
  <AirReservation>
    <Comment>1</Comment>
    <Comment>OK</Comment>
    <Comment>SUCCESS</Comment>
  </AirReservation>
</OTA_AirBookRS>

```

7.14 删除旅客

输入样例：

```

<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="PEK099"/>
  </POS>
  <AirBookModifyRQ ModificationType="PASSENGER_DELETE">
    <AirReservation>
      <TravelerInfo>
        <AirTraveler PassengerTypeCode="ADT" AccompaniedByInfant="false">
          <PersonName LanguageType="ZH">

```

```

        <Surname>WANG/QIANG</Surname>
        </PersonName>
        <TravelerRefNumber RPH="1"/>
    </AirTraveler>
</TravelerInfo>
</AirReservation>
</AirBookModifyRQ>
<AirReservation>
    <BookingReferenceID ID="HS38PM"/>
</AirReservation>
</OTA_AirBookModifyRQ>

```

对应输出:

```

<OTA_AirBookRS>
    <AirReservation>
        <Comment>1</Comment>
        <Comment>OK</Comment>
        <Comment>SUCCESS</Comment>
    </AirReservation>
</OTA_AirBookRS>

```

7.15 取消航段

输入样例:

```

<OTA_AirBookModifyRQ>
    <POS>
        <Source PseudoCityCode="PEK099" />
    </POS>
    <AirBookModifyRQ ModificationType="SEGMENT_CANCEL">
        <AirReservation>
            <AirItinerary>
                <OriginDestinationOptions>
                    <OriginDestinationOption>
                        <FlightSegment DepartureDateTime="2011-08-06T15:35:05"
                            FlightNumber="1858"          NumberInParty="1"          Status="NN"
SegmentType="NORMAL">
                            <OperatingAirline Code="CA" FlightNumber="1858" />
                            <DepartureAirport LocationCode="SHA" />
                            <ArrivalAirport LocationCode="PEK" />
                            <MarketingAirline Code="CA" />
                            <BookingClassAvail ResBookDesigCode="Y" />
                        </FlightSegment>
                    </OriginDestinationOption>
                </OriginDestinationOptions>
            </AirItinerary>
        </AirReservation>
    </AirBookModifyRQ>
</OTA_AirBookModifyRQ>

```



```
        </OriginDestinationOptions>
      </AirItinerary>
    </AirReservation>
  </AirBookModifyRQ>
  <AirReservation>
    <BookingReferenceID ID="HMVMBH" />
  </AirReservation>
</OTA_AirBookModifyRQ>
```

对应输出：

```
<OTA_AirBookRS>
  <AirReservation>
    <Comment>1</Comment>
    <Comment>OK</Comment>
    <Comment>SUCCESS</Comment>
  </AirReservation>
</OTA_AirBookRS>
```

7.16 取消 PNR

输入样例：

```
<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="PEK099" />
  </POS>
  <AirBookModifyRQ ModificationType="PNR_CANCEL" />
  <AirReservation>
    <BookingReferenceID ID="JMX0DK" />
  </AirReservation>
</OTA_AirBookModifyRQ>
```

对应输出：

```
<OTA_AirBookRS>
  <AirReservation>
    <Comment>1</Comment>
    <Comment>OK</Comment>
    <Comment>SUCCESS</Comment>
  </AirReservation>
</OTA_AirBookRS>
```

7.17 按行删除 PNR 信息

输入样例：

```
<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="PEK099" />
  </POS>
  <AirBookModifyRQ ModificationType="ITEM_CANCEL">
    <AirReservation>
      <BookingReferenceID ID_Context="6 7" />
    </AirReservation>
  </AirBookModifyRQ>
  <AirReservation>
    <BookingReferenceID ID="JMX08D" />
  </AirReservation>
</OTA_AirBookModifyRQ>
```

对应输出：

```
<OTA_AirBookRS>
  <AirReservation>
    <Comment>1</Comment>
    <Comment>OK</Comment>
    <Comment>SUCCESS</Comment>
  </AirReservation>
</OTA_AirBookRS>
```

7.18RR 航段信息

输入样例：

```
<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="BJS988"/>
  </POS>
  <AirBookModifyRQ ModificationType="SEGMENT_RECONFIRM">
    <AirReservation>
      <AirItinerary>
        <OriginDestinationOptions>
          <OriginDestinationOption>
            <FlightSegment RPH="1" DepartureDateTime="2012-08-12T00:00:00"
FlightNumber="1883" NumberInParty="1" Status="NN" SegmentType="NORMAL">
              <OperatingAirline Code="CA" FlightNumber="1883"/>
              <DepartureAirport LocationCode="PEK"/>
            </FlightSegment>
          </OriginDestinationOption>
        </OriginDestinationOptions>
      </AirItinerary>
    </AirReservation>
  </AirBookModifyRQ>
</OTA_AirBookModifyRQ>
```

```

        <ArrivalAirport LocationCode="PVG"/>
        <MarketingAirline Code="CA"/>
        <BookingClassAvail ResBookDesigCode="Y"/>
    </FlightSegment>
</OriginDestinationOption>
</OriginDestinationOptions>
</AirItinerary>
</AirReservation>
</AirBookModifyRQ>
<AirReservation>
    <BookingReferenceID ID="JT5M18"/>
</AirReservation>
</OTA_AirBookModifyRQ>

```

对应输出：

```

<OTA_AirBookRS>
  <AirReservation>
    <Comment>1</Comment>
    <Comment>OK</Comment>
    <Comment>SUCCESS</Comment>
  </AirReservation>
</OTA_AirBookRS>

```

7. 19PNR 分离

输入样例：

```

<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="PEK099" />
  </POS>
  <AirBookModifyRQ ModificationType="PNR_SPLIT">
    <AirReservation>
      <TravelerInfo>
        <AirTraveler PassengerTypeCode="ADT"
          AccompaniedByInfant="false">
          <PersonName LanguageType="ZH">
            <Surname>WANG/QIANG</Surname>
          </PersonName>
          <Document DocType="NI" DocID="650203200511220711" />
          <TravelerRefNumber RPH="1" />
        </AirTraveler>
        <AirTraveler PassengerTypeCode="ADT"
          AccompaniedByInfant="false">

```

```
<PersonName LanguageType="ZH">
    <Surname>王强</Surname>
</PersonName>
<Document DocType="NI" DocID="650203200511220712" />
<TravelerRefNumber RPH="2" />
</AirTraveler>
</TravelerInfo>
</AirReservation>
</AirBookModifyRQ>
<AirReservation>
    <BookingReferenceID ID="JMX05B" />
</AirReservation>
</OTA_AirBookModifyRQ>
```

对应输出：

```
<OTA_AirBookRS>
<AirReservation>
    <Comment>1</Comment>
    <Comment>OK</Comment>
    <Comment>SUCCESS</Comment>
</AirReservation>
</OTA_AirBookRS>
```

7.20 NO 位 PNR 补位

输入样例（对整个 **PNR** 中航段为 **NO** 的进行补位）：

```
<?xml version="1.0" encoding="UTF-8"?>
<OTA_AirBookModifyRQ>
    <POS>
        <Source PseudoCityCode="PEK099" />
    </POS>
    <AirBookModifyRQ ModificationType="SEGMENT_NO" ModificationInfo="K">

    </AirBookModifyRQ>
    <AirReservation>
        <BookingReferenceID ID="HR71F3" />
    </AirReservation>
</OTA_AirBookModifyRQ>
```

对应输出：

```
<OTA_AirBookRS>
<AirReservation>
    <Comment>1</Comment>
    <Comment>OK</Comment>
```

```
<Comment>SUCCESS</Comment>
</AirReservation>
</OTA_AirBookRS>
```

输入样例(对指定航段进行 **PNR** 补位):

```
<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="PEK099"/>
  </POS>
  <AirBookModifyRQ ModificationType="SEGMENT_NO" ModificationInfo="K">
    <AirReservation>
      <AirItinerary>
        <OriginDestinationOptions>
          <OriginDestinationOption>
            <FlightSegment RPH="1" DepartureDateTime="2012-05-04T09:50:31"
FlightNumber="1831" NumberInParty="1" Status="NN" SegmentType="NORMAL">
              <OperatingAirline Code="CA" FlightNumber="1831"/>
              <DepartureAirport LocationCode="PEK"/>
              <ArrivalAirport LocationCode="SHA"/>
              <MarketingAirline Code="CA"/>
              <BookingClassAvail ResBookDesigCode="Y"/>
            </FlightSegment>
          </OriginDestinationOption>
        </OriginDestinationOptions>
      </AirItinerary>
    </AirReservation>
  </AirBookModifyRQ>
</AirReservation>
  <BookingReferenceID ID="JZMH94"/>
</AirReservation>
</OTA_AirBookModifyRQ>
```

对应输出:

```
<OTA_AirBookRS>
  <AirReservation>
    <Comment>1</Comment>
    <Comment>OK</Comment>
    <Comment>SUCCESS</Comment>
  </AirReservation>
</OTA_AirBookRS>
```

7.21 修改 RMK

输入样例：

```
<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="BJS187" />
  </POS>
  <AirBookModifyRQ ModificationType="REMARK_MODIFY">
    <AirReservation>
      <TravelerInfo>
        <SpecialReqDetails>
          <SpecialRemarks>
            <SpecialRemark>
              <Text>xxx</Text>
            </SpecialRemark>
          </SpecialRemarks>
        </SpecialReqDetails>
      </TravelerInfo>
    </AirReservation>
  </AirBookModifyRQ>
  <AirReservation>
    <TravelerInfo>
      <SpecialReqDetails>
        <SpecialRemarks>
          <SpecialRemark>
            <Text>NH1LP</Text>
          </SpecialRemark>
        </SpecialRemarks>
      </SpecialReqDetails>
    </TravelerInfo>
    <BookingReferenceID ID="HR70SP" ID_Context="PNR" />
  </AirReservation>
</OTA_AirBookModifyRQ>
```

对应输出：

```
<OTA_AirBookRS>
  <AirReservation>
    <Comment>1</Comment>
    <Comment>OK</Comment>
    <Comment>SUCCESS</Comment>
  </AirReservation>
</OTA_AirBookRS>
```

7.22 修改 OSI

输入样例：

```
<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="BJS187" />
  </POS>
  <AirBookModifyRQ ModificationType="OSI_MODIFY">
    <AirReservation>
      <TravelerInfo>
        <SpecialReqDetails>
          <OtherServiceInformations>
            <OtherServiceInformation Code="OTHS" RPH="12">
              <Airline Code="MU"/>
              <Text>CTCT 888888888888</Text>
            </OtherServiceInformation>
          </OtherServiceInformations>
        </SpecialReqDetails>
      </TravelerInfo>
    </AirReservation>
  </AirBookModifyRQ>
  <AirReservation>
    <TravelerInfo>
      <SpecialReqDetails>
        <OtherServiceInformations>
          <OtherServiceInformation Code="OTHS" RPH="12">
            <Airline Code="MU"/>
            <Text>123349847849</Text>
          </OtherServiceInformation>
        </OtherServiceInformations>
      </SpecialReqDetails>
    </TravelerInfo>
    <BookingReferenceID ID="HR70SP" ID_Context="PNR" />
  </AirReservation>
</OTA_AirBookModifyRQ>
```

对应输出：

```
<OTA_AirBookRS>
  <AirReservation>
    <Comment>1</Comment>
    <Comment>OK</Comment>
    <Comment>SUCCESS</Comment>
  </AirReservation>
</OTA_AirBookRS>
```

7.23 删除 OSI

输入样例:

```
<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="BJS187" />
  </POS>
  <AirBookModifyRQ ModificationType="OSI_DELETE">

  </AirBookModifyRQ>
  <AirReservation>
    <TravelerInfo>
      <SpecialReqDetails>
        <OtherServiceInformations>
          <OtherServiceInformation Code="OTHS" RPH="12">
            <Airline Code="MU"/>
            <Text>TTTT</Text>
          </OtherServiceInformation>
        </OtherServiceInformations>
      </SpecialReqDetails>
    </TravelerInfo>
    <BookingReferenceID ID="HR70SP" ID_Context="PNR" />
  </AirReservation>
</OTA_AirBookModifyRQ>
```

对应输出:

```
<OTA_AirBookRS>
  <AirReservation>
    <Comment>1</Comment>
    <Comment>OK</Comment>
    <Comment>SUCCESS</Comment>
  </AirReservation>
</OTA_AirBookRS>
```

7.24 删除 RMK

输入样例:

```
<OTA_AirBookModifyRQ>
  <POS>
    <Source PseudoCityCode="BJS187" />
  </POS>
```



```
<AirBookModifyRQ ModificationType="REMARK_DELETE">
</AirBookModifyRQ>
<AirReservation>
  <TravelerInfo>
    <SpecialReqDetails>
      <SpecialRemarks>
        <SpecialRemark>
          <Text>AAAAA</Text>
        </SpecialRemark>
      </SpecialRemarks>
    </SpecialReqDetails>
  </TravelerInfo>
  <BookingReferenceID ID="HR70SP" ID_Context="PNR" />
</AirReservation>
</OTA_AirBookModifyRQ>
```

对应输出：

```
<OTA_AirBookRS>
<AirReservation>
  <Comment>1</Comment>
  <Comment>OK</Comment>
  <Comment>SUCCESS</Comment>
</AirReservation>
</OTA_AirBookRS>
```

8. 接口调用

自动修改接口提供基于 XML 文档规范的标准 HTTP 协议接口,通过在标准 HTTP 通道上传输 XML 格式的请求和数据来完成服务调用。服务的输入输出定义在标准的 XSD 文档中,用户根据自有系统的实现环境结合 XSD 文档进行数据到对象间的转换。在线分销平台提供服务接口 URL,用户使用 HTTP 协议按照服务定义正确构造请求输入,正确解析数据输出实现服务的调用。

8.1 接口申请

请与您所在城市的中国航信分支机构联系,资质审查通过后签署试用协议,即可获得试用接口。

8.2 接口认证

授权用户调用试用接口时需要使用已分配的账号和密码、并使用申请时的 IP。

如果已变化 IP 请联系业务人员申请变更 IP。

8.3 接口地址

接口描述位置: <http://espeed.travelsky.com/develop/xml/AirBookModify?xsd>

接口试用地址: <http://espeed.travelsky.com/develop/xml/AirBookModify>

8.4 JAVA 调用示例

Java 调用 http 接口示例如下:

其中该调用示例程序只是为了展示如何接入使用

```
import java.io.BufferedReader;
import java.io.ByteArrayOutputStream;
import java.io.InputStream;
import java.io.InputStreamReader;
import java.util.zip.GZIPInputStream;
import java.util.zip.GZIPOutputStream;

import org.apache.commons.httpclient.Credentials;
import org.apache.commons.httpclient.DefaultHttpMethodRetryHandler;
import org.apache.commons.httpclient.HttpClient;
import org.apache.commons.httpclient.HttpState;
import org.apache.commons.httpclient.HttpStatus;
import org.apache.commons.httpclient.UsernamePasswordCredentials;
import org.apache.commons.httpclient.auth.AuthScope;
import org.apache.commons.httpclient.methods.ByteArrayRequestEntity;
import org.apache.commons.httpclient.methods.PostMethod;
import org.apache.commons.httpclient.methods.RequestEntity;
import org.apache.commons.httpclient.params.HttpMethodParams;

/**
 * http 客户端调用示例(数据压缩版)
 */
public class HttpClientDemo {

    public static void main(String[] args) {
```

```
//实际使用时，请设置正确的变量值
//用户名
String username = "用户名";
//密码
String pwd = "密码";
//服务地址
String serviceUrl = "服务地址";
//请求 XML
String reqStr = "test-xml";

// 构造 HttpClient 的实例
HttpClient httpClient = new HttpClient();
//调用验证信息
HttpState state = new HttpState();
Credentials credentials = new UsernamePasswordCredentials(username, pwd);
state.setCredentials(AuthScope.ANY, credentials);
httpClient.setState(state);

// 创建 POST 方法的实例
PostMethod postMethod = new PostMethod(serviceUrl);
// 使用系统提供的默认的恢复策略
postMethod.getParams().setParameter(HttpMethodParams.RETRY_HANDLER,
    new DefaultHttpMethodRetryHandler());
try {
    // 请求参数的数据压缩
    ByteArrayOutputStream out = new ByteArrayOutputStream();
    GZIPOutputStream gzip = new GZIPOutputStream(out);
    if (reqStr != null && !"".equals(reqStr)) {
        gzip.write(reqStr.getBytes());
    }
    gzip.close();
    RequestEntity requestEntity = new ByteArrayRequestEntity(out
        .toByteArray());
    postMethod.setRequestEntity(requestEntity);
    postMethod.addRequestHeader("Content-Type",
        "text/html;charset=UTF-8");
    postMethod.addRequestHeader("accept-encoding", "gzip");
    postMethod.addRequestHeader("content-encoding", "gzip");

    // 执行 getMethod
    int statusCode = httpClient.executeMethod(postMethod);
    if (statusCode != HttpStatus.SC_OK) {
        throw new Exception("Invoke Get Method Failed, HttpStatus = "
            + statusCode);
    }
}
```

```

    }

    // 返回结果的数据解压
    InputStream is = postMethod.getResponseBodyAsStream();
    BufferedReader br = new BufferedReader(new InputStreamReader(
        new GZIPInputStream(is)));

    StringBuffer respStr = new StringBuffer();
    String line = null;
    while ((line = br.readLine()) != null) {
        respStr.append(line);
    }

    // 打印结果
    System.out.println(respStr.toString());

    out.flush();
    out.close();
    is.close();
} catch (Exception e) {
    // 发生致命的异常，可能是协议不对或者返回的内容有问题
    e.printStackTrace();
} finally {
    // 释放连接
    postMethod.releaseConnection();
}

}
}

```

8. 5. NET 调用示例

.Net 调用 http 接口示例如下：

其中该调用示例程序只是为了展示如何接入使用

(1)建立一个 cs 文件,与服务器通信的类：

```

// 定义 xml 与服务器的通信
class OTA_XMLHTTP
{
    string user;    //用户名
    string pwd;    //密码
    string url;    //服务地址

```

```

public OTA_XMLHTTP(string _user,string _pwd,string _url)
{
    user = _user;
    pwd = _pwd;
    url = _url;
}
// 获取服务器返回的字符串
public string GetResponse(string requestXml)
{
    string xmlString = "";    //要返回的 xml 字符串
    bool a= requestXml.Contains("<?xml version=\"1.0\" encoding=\"UTF-8\"?>");
    requestXml = requestXml.Replace("<?xml version=\"1.0\" encoding=\"UTF-8\"?>\n", "");
    try
    {
        //制定服务器地址
        HttpWebRequest request = (HttpWebRequest)HttpWebRequest.Create(url);
        request.Method = WebRequestMethods.Http.Post; //设定 http 的传递方式
        request.ContentType = "application/x-www-form-urlencoded";
        //设定 http 的 header
        if (user != null && pwd != null)
        {
            string user_pwd = user + ":" + pwd;
            byte[] authBytes = Encoding.UTF8.GetBytes(user_pwd.ToCharArray());
            request.Headers.Add("Authorization", "Basic " + Convert.ToBase64String(authBytes));
            request.Headers.Add("Content-Encoding", "gzip");
            request.Headers.Add("Accept-Encoding", "gzip");
        }
        //将数据写入流中
        string para = "request";
        ASCIIEncoding encoding = new ASCIIEncoding();
        byte[] data = encoding.GetBytes(para + "=" + requestXml);
        request.ContentLength = data.Length;
        Stream stream = request.GetRequestStream();
        stream.Write(data, 0, data.Length);
        stream.Close();
        //建立获取 http 返回的 response
        HttpWebResponse response = (HttpWebResponse)request.GetResponse();
        //读取 http 返回的字符串
        Stream responseStream = response.GetResponseStream();
        if (response.ContentEncoding.ToLower().Contains("gzip"))
            responseStream = new GZipStream(responseStream, CompressionMode.Decompress);
        else if (response.ContentEncoding.ToLower().Contains("deflate"))
            responseStream = new DeflateStream(responseStream, CompressionMode.Decompress);
        StreamReader streamReader = new StreamReader(responseStream, Encoding.UTF8);
    }
    catch { }
}

```

```
        xmlString = streamReader.ReadToEnd();
        streamReader.Close();
    }
    catch (WebException e)
    {
        xmlString = e.Message;
    }
    return xmlString;
}
}
```

（2）调用上面的文件

调用方法：

```
string user="用户名";
string pwd="密码";
string url="接口地址";
OTA_XMLHTTP xmlHttp = new OTA_XMLHTTP(user, pwd, url);
PonseXmlBox.Text = xmlHttp.GetResponse(requestXml);
```