在线分销产品
国内公布运价服务用户手册

目录

1.概述

国内公布运价查询服务可以查询指定航线与日期上特定航空公司所发布的运价信息，对应于 eTerm 中的 FD 指令。

2.版本

主要内容	国内公布运价查询服务				
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	2013/11/19	创建	谢杰		
V1.0.1	2013/12/03	修改部分描述	李利波		

3.业务范围

对应于 eTerm 中的 FD 指令，用来查询国内航空公司对国内航段发布的运价信息。
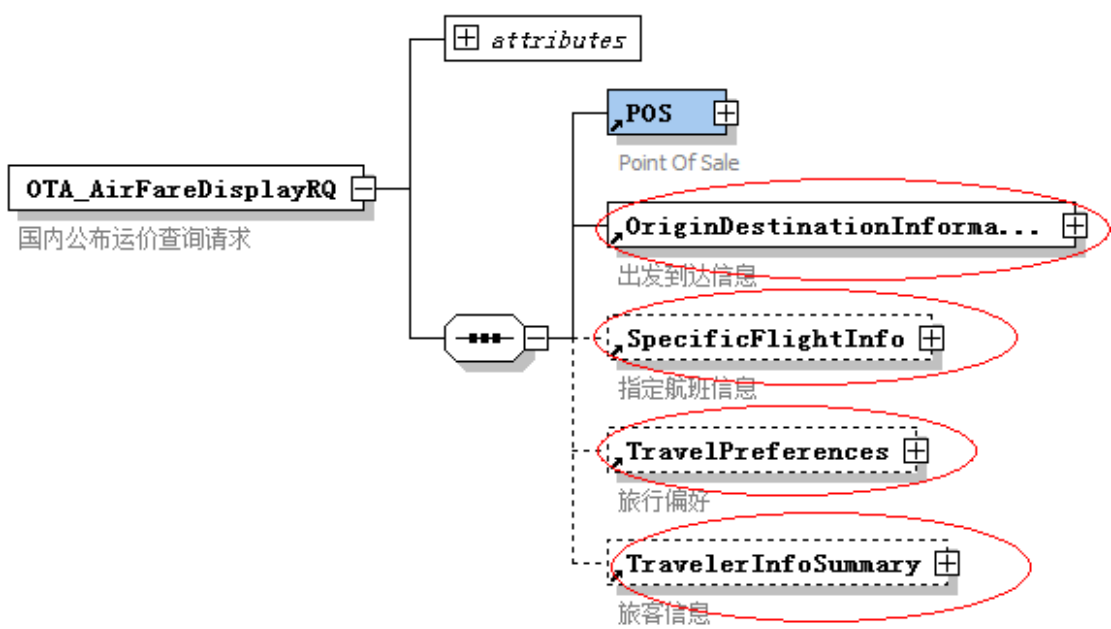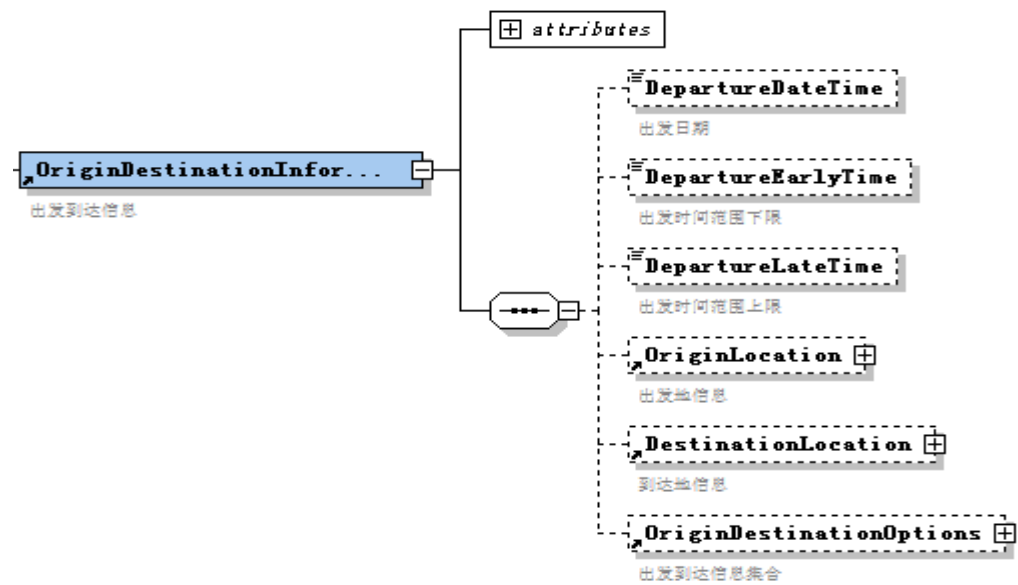
4.功能范围

● 查询指定航线与日期上特定国内航空公司所发布的运价信息；

5.接口说明

5.1 接口结构

5.1.1 请求结构

其中标识红色椭圆线的节点结构如下：

OriginDestinationInformation 节点

OriginDestinationInfor... 出发到达信息

- attributes
- DepartureDateTime 出发日期
- DepartureEarlyTime 出发时间范围下限
- DepartureLateTime 出发时间范围上限
- OriginLocation 出发地信息
- DestinationLocation 到达地信息
- OriginDestinationOptions 出发到达信息集合

SpecificFlightInfo 节点

SpecificFlightInfo 指定航班信息

- OriginDestinationInfor... 出发到达信息引用 0..∞
- FlightNumber 航班号
- Airline 航空公司信息 1..∞
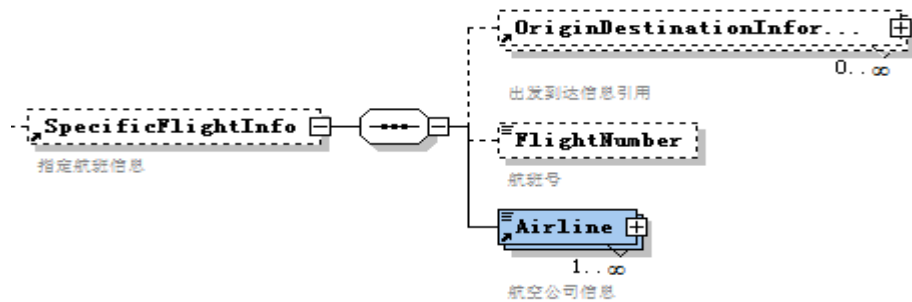
TravelPreferences 节点

TravelPreferences 旅行偏好

- attributes
- FlightTypePref 航班类型偏好
- FareRestrictPref 坐价约束
- CabinPref 舱位偏好

TravelerInfoSummary 节点

TravelerInfoSummary 旅客信息

- attributes
- AirTravelerAvail 旅客信息，指定旅客类型、数量等 0..∞
  - PassengerTypeQuantity 乘客类型、数量信息 1..∞
  - AirTraveler 乘客信息
- PaymentDetail 支付信息
  - attributes
  - CreditCardInfo 信用卡信息 0..∞
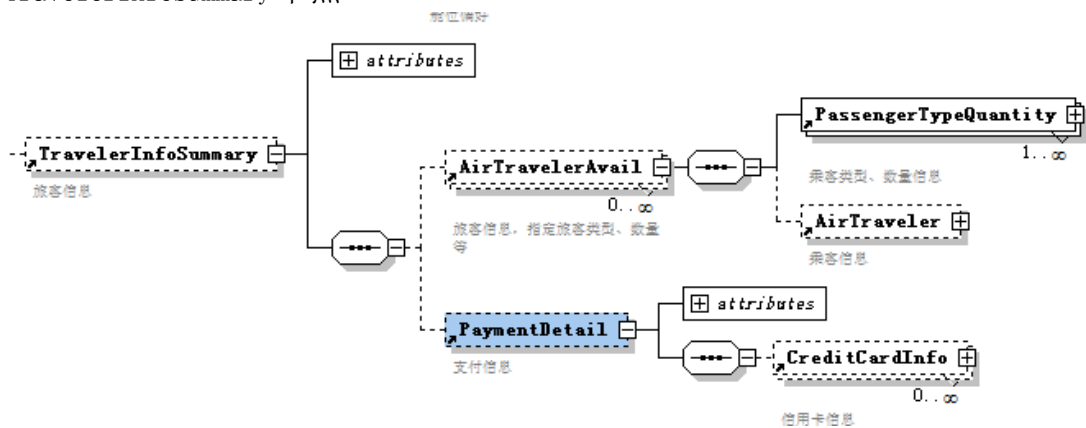
5.1.2 响应结构
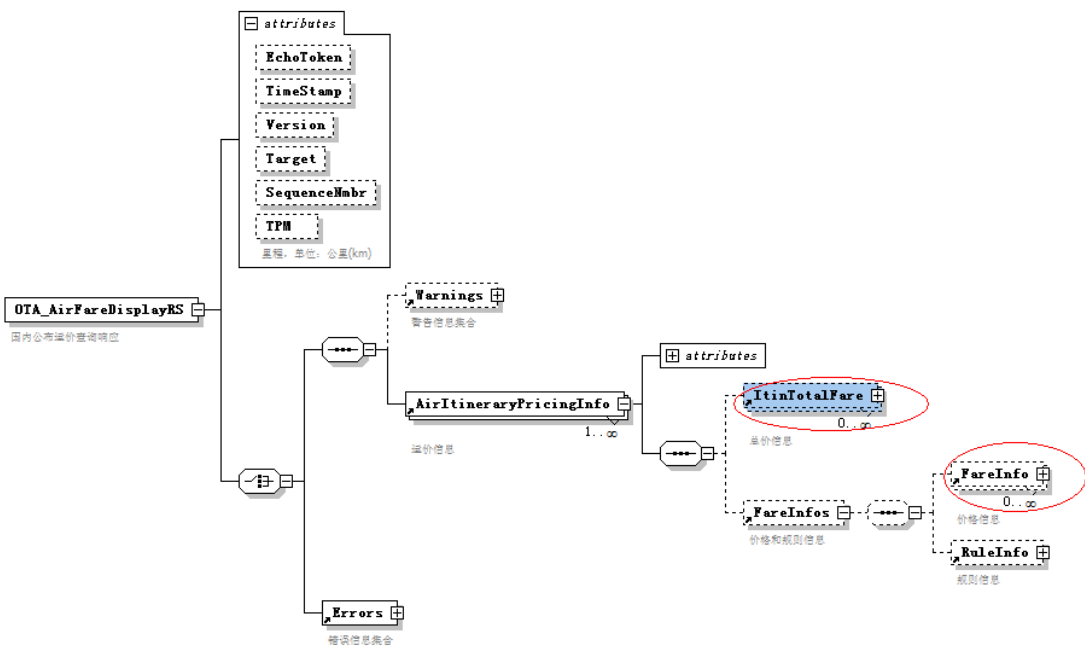
其中标识红色椭圆线的节点结构如下：

ItinTotalFare 节点
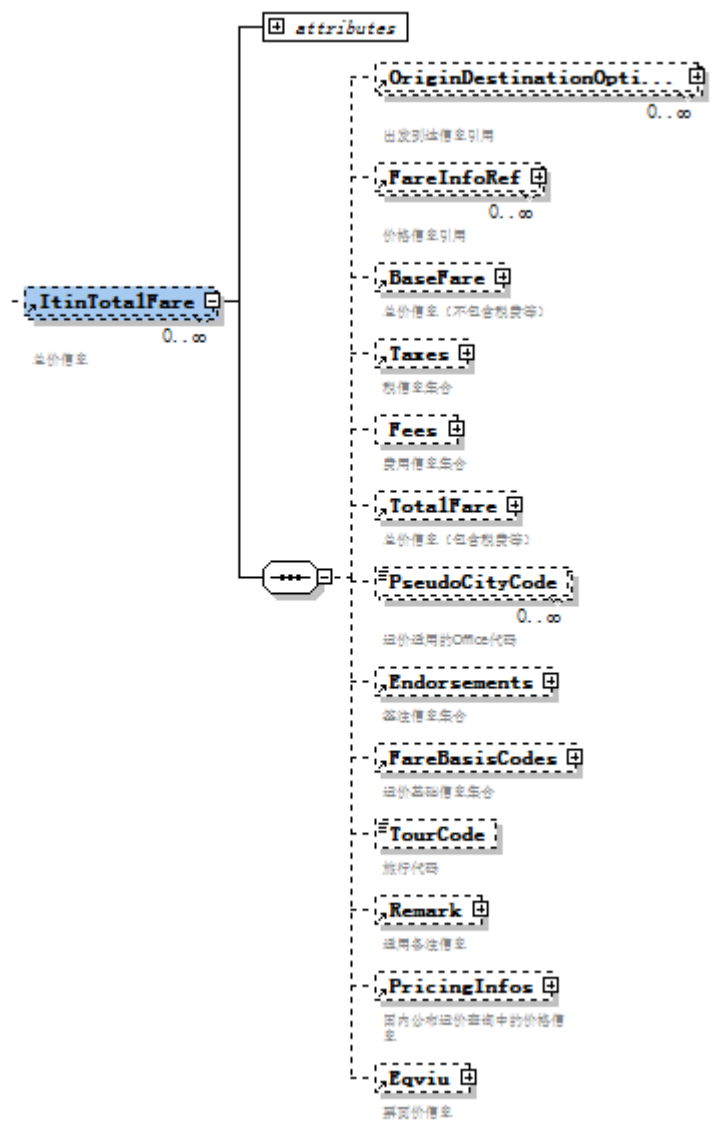
FareInfos 节点
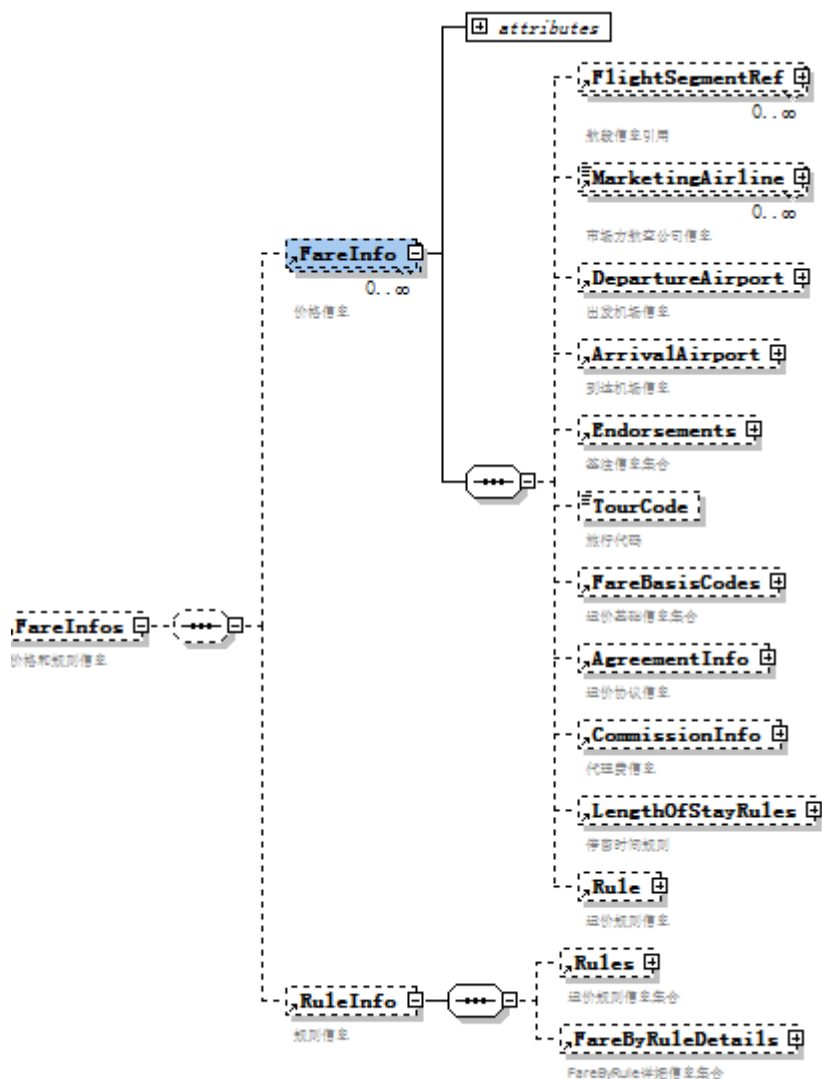
5.2 请求参数说明

元素名称	说明	Rep	类型	默认值	备注
OTA_AirFareDisplayRQ		1			
POS	零售商信息	1			
Source					
@PseudoCityCode	伪城市代码（Office代	1	String		如：PEK099

元素名称	说明	Rep	类型	默认值	备注
	码）				
OriginDestinationInformation	出发到达地信息	1			
OriginDestinationOptions	OD 项集合	1			
OriginDestinationOption	OD 项	1			
FlightSegment		1			
@DepartureDateTime	出发日期	1	String		格式:YYYY-MM-DDTHH:mm:ss
Equipment					
@AirEquipType	机型	1	String		
DepartureAirport	出发地三字码	1			
@LocationCode	出发地三字码	1	String		如：PEK
ArrivalAirport	到达地三字码	1			
@LocationCode	到达地三字码	1	String		如：SHA
MarketingAirline	市场方航空公司	1			
@Code	航空公司代码	1	String		如:CA
TravelerInfoSummary	旅行信息	1			
AirTravelerAvail	旅客信息	1			
@PassengerTypeCode	乘客类型代码	1	String		如：ADT

5.3 响应参数说明

元素名称	说明	Rep	类型	默认值	备注
OTA_AirFareDisplayRS		1			
@TPM	里程数	1	String		单位：公里（KM）
Errors	错误信息	0..1			
Error		0..1			

@Code	错误代码	0..1	String		
@Type	错误类型	0..1	String		
@ShortText	错误详细信息	0..1	String		
Warnings	警告信息	0..1			
Warning		0..1			
@Code	警告代码	0..1	String		
@Type	警告类型	0..1	String		
@ShortText	警告详细信息	0..1	String		
AirItineraryPricingInfo	运价信息	1			
@ScheduleValidStartDate	运价有效起始日期	1	Date		格式：yyyy-MM-dd
@ScheduleValidEndDate	运价结束有效日期	1	Date		格式：yyyy-MM-dd
ItinTotalFare	总价信息	1			
Taxes	税费信息	1			
Tax	税费信息	1			
@TaxCode	税代码	1	String		
@Amount	金额	1	Decimal		
PricingInfos	国内公布运价查询中的价格信息	1			
@SinglePrice	单程价格	1	Decimal		
@RoundPrice	往返加价	1	Decimal		
@DiscountRate	折扣率	1	Decimal		
@CurrencyCode	货币代码	1	String		
FareInfos	价格和规则信息	1			
FareInfo	价格信息	1			
@Cabin	舱位等级	1	String		

@ResBookDesigCode	舱位	1	String
MarketingAirline	市场方航空公司信息	1	
@Code	航空公司代码	1	String
FareBasisCodes	运价基础信息集合	1	
@FareBasisCode	运价基础信息代码	1	String
Rule	运价规则信息	1	
@RuleID	规则 ID	1	String

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	内部服务异常
-9999	unknown error!	未知错误
-305	transaction times limited	访问次数限制
-304	sending commands too	访问速度过快,请稍后再试

| | fast, try again later | |

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	内部异常
-402	Input Error	输入参数有误
-390	IBE Service Error	IBE 服务异常

7. 参考样例

7.1 查询指定日期、航线和航空公司的公布运价信息

查询国内公布运价信息请求用例：

```xml
<?xml version="1.0" encoding="UTF-8"?>
<OTA_AirFareDisplayRQ>
    <POS>
        <Source PseudoCityCode="PEK099"/>
    </POS>
    <OriginDestinationInformation>
        <OriginDestinationOptions>
            <OriginDestinationOption>
                <FlightSegment DepartureDateTime="2013-12-25T09:30:00">
                    <Equipment AirEquipType="738"/>
                    <DepartureAirport LocationCode="PEK"/>
                    <ArrivalAirport LocationCode="SHA"/>
                    <MarketingAirline Code="CA"/>
                </FlightSegment>
            </OriginDestinationOption>
        </OriginDestinationOptions>
    </OriginDestinationInformation>
    <TravelerInfoSummary>
        <AirTravelerAvail>
            <PassengerTypeQuantity Code="ADT"/>
        </AirTravelerAvail>
    </TravelerInfoSummary>
</OTA_AirFareDisplayRQ>
```

查询国内公布运价信息响应用例：

```xml
<OTA_AirFareDisplayRS>
    <AirItineraryPricingInfo                              ScheduleValidStartDate="2013-11-15"
ScheduleValidEndDate="1949-12-31">
        <ItinTotalFare>
            <Taxes>
                <Tax TaxCode="CN" Amount="50.0"/>
                <Tax TaxCode="YQ" Amount="120.0"/>
            </Taxes>
            <PricingInfos            SinglePrice="4520.00"            RoundPrice="9040.00"
DiscountRate="400.0" CurrencyCode="CNY"/>
        </ItinTotalFare>
        <FareInfos>
            <FareInfo Cabin="F" ResBookDesigCode="P">
                <MarketingAirline Code="CA"/>
                <FareBasisCodes>
                    <FareBasisCode>P</FareBasisCode>
                </FareBasisCodes>
                <Rule RuleID="FY1G"/>
            </FareInfo>
        </FareInfos>
    </AirItineraryPricingInfo>
    <AirItineraryPricingInfo                              ScheduleValidStartDate="2013-11-16"
ScheduleValidEndDate="2014-03-16">
        <ItinTotalFare>
            <Taxes>
                <Tax TaxCode="CN" Amount="50.0"/>
                <Tax TaxCode="YQ" Amount="120.0"/>
            </Taxes>
            <PricingInfos            SinglePrice="3160.00"            DiscountRate="280.0"
CurrencyCode="CNY"/>
        </ItinTotalFare>
        <FareInfos>
            <FareInfo Cabin="F" ResBookDesigCode="F">
                <MarketingAirline Code="CA"/>
                <FareBasisCodes>
                    <FareBasisCode>FOW</FareBasisCode>
                </FareBasisCodes>
                <Rule RuleID="FY1G"/>
            </FareInfo>
        </FareInfos>
    </AirItineraryPricingInfo>
    <AirItineraryPricingInfo                              ScheduleValidStartDate="2013-03-01"
ScheduleValidEndDate="1949-12-31">
```

```xml
<ItinTotalFare>
    <Taxes>
        <Tax TaxCode="CN" Amount="50.0"/>
        <Tax TaxCode="YQ" Amount="120.0"/>
    </Taxes>
    <PricingInfos          SinglePrice="2830.00"          RoundPrice="5660.00"
DiscountRate="250.0" CurrencyCode="CNY"/>
</ItinTotalFare>
<FareInfos>
    <FareInfo Cabin="F" ResBookDesigCode="A">
        <MarketingAirline Code="CA"/>
        <FareBasisCodes>
            <FareBasisCode>A</FareBasisCode>
        </FareBasisCodes>
        <Rule RuleID="AV1G"/>
    </FareInfo>
</FareInfos>
</AirItineraryPricingInfo>
<AirItineraryPricingInfo                              ScheduleValidStartDate="2013-03-01"
ScheduleValidEndDate="1949-12-31">
    <ItinTotalFare>
        <Taxes>
            <Tax TaxCode="CN" Amount="50.0"/>
            <Tax TaxCode="YQ" Amount="120.0"/>
        </Taxes>
        <PricingInfos          SinglePrice="2600.00"          RoundPrice="5200.00"
DiscountRate="230.0" CurrencyCode="CNY"/>
    </ItinTotalFare>
    <FareInfos>
        <FareInfo Cabin="C" ResBookDesigCode="C">
            <MarketingAirline Code="CA"/>
            <FareBasisCodes>
                <FareBasisCode>C</FareBasisCode>
            </FareBasisCodes>
            <Rule RuleID="FY1G"/>
        </FareInfo>
    </FareInfos>
</AirItineraryPricingInfo>
<AirItineraryPricingInfo                              ScheduleValidStartDate="2013-11-16"
ScheduleValidEndDate="2014-03-16">
    <ItinTotalFare>
        <Taxes>
            <Tax TaxCode="CN" Amount="50.0"/>
            <Tax TaxCode="YQ" Amount="120.0"/>
```

```xml
            </Taxes>
            <PricingInfos          RoundPrice="4980.00"          DiscountRate="220.0"
CurrencyCode="CNY"/>
        </ItinTotalFare>
        <FareInfos>
            <FareInfo Cabin="F" ResBookDesigCode="F">
                <MarketingAirline Code="CA"/>
                <FareBasisCodes>
                    <FareBasisCode>FRT</FareBasisCode>
                </FareBasisCodes>
                <Rule RuleID="FY1G"/>
            </FareInfo>
        </FareInfos>
    </AirItineraryPricingInfo>
    <AirItineraryPricingInfo                    ScheduleValidStartDate="2013-03-01"
ScheduleValidEndDate="1949-12-31">
        <ItinTotalFare>
            <Taxes>
                <Tax TaxCode="CN" Amount="50.0"/>
                <Tax TaxCode="YQ" Amount="120.0"/>
            </Taxes>
            <PricingInfos          SinglePrice="2030.00"          RoundPrice="4060.00"
DiscountRate="180.0" CurrencyCode="CNY"/>
        </ItinTotalFare>
        <FareInfos>
            <FareInfo Cabin="C" ResBookDesigCode="D">
                <MarketingAirline Code="CA"/>
                <FareBasisCodes>
                    <FareBasisCode>D</FareBasisCode>
                </FareBasisCodes>
                <Rule RuleID="AV1G"/>
            </FareInfo>
        </FareInfos>
    </AirItineraryPricingInfo>
    <AirItineraryPricingInfo                    ScheduleValidStartDate="2013-03-01"
ScheduleValidEndDate="1949-12-31">
        <ItinTotalFare>
            <Taxes>
                <Tax TaxCode="CN" Amount="50.0"/>
                <Tax TaxCode="YQ" Amount="120.0"/>
            </Taxes>
            <PricingInfos          SinglePrice="1810.00"          RoundPrice="3620.00"
DiscountRate="160.0" CurrencyCode="CNY"/>
        </ItinTotalFare>
```

```xml
            <FareInfos>
                <FareInfo Cabin="C" ResBookDesigCode="Z">
                    <MarketingAirline Code="CA"/>
                    <FareBasisCodes>
                        <FareBasisCode>Z</FareBasisCode>
                    </FareBasisCodes>
                    <Rule RuleID="AV1G"/>
                </FareInfo>
            </FareInfos>
        </AirItineraryPricingInfo>
        <AirItineraryPricingInfo                          ScheduleValidStartDate="2013-03-01"
ScheduleValidEndDate="1949-12-31">
            <ItinTotalFare>
                <Taxes>
                    <Tax TaxCode="CN" Amount="50.0"/>
                    <Tax TaxCode="YQ" Amount="120.0"/>
                </Taxes>
                <PricingInfos          SinglePrice="1130.00"          RoundPrice="2260.00"
DiscountRate="100.0" CurrencyCode="CNY"/>
            </ItinTotalFare>
            <FareInfos>
                <FareInfo Cabin="Y" ResBookDesigCode="W">
                    <MarketingAirline Code="CA"/>
                    <FareBasisCodes>
                        <FareBasisCode>W</FareBasisCode>
                    </FareBasisCodes>
                    <Rule RuleID="FY1G"/>
                </FareInfo>
            </FareInfos>
        </AirItineraryPricingInfo>
        <AirItineraryPricingInfo                          ScheduleValidStartDate="2013-03-01"
ScheduleValidEndDate="1949-12-31">
            <ItinTotalFare>
                <Taxes>
                    <Tax TaxCode="CN" Amount="50.0"/>
                    <Tax TaxCode="YQ" Amount="120.0"/>
                </Taxes>
                <PricingInfos          SinglePrice="1130.00"          RoundPrice="2260.00"
DiscountRate="100.0" CurrencyCode="CNY"/>
            </ItinTotalFare>
            <FareInfos>
                <FareInfo Cabin="Y" ResBookDesigCode="Y">
                    <MarketingAirline Code="CA"/>
                    <FareBasisCodes>
```

```xml
                    <FareBasisCode>Y</FareBasisCode>
                </FareBasisCodes>
                <Rule RuleID="FY1G"/>
            </FareInfo>
        </FareInfos>
    </AirItineraryPricingInfo>
    <AirItineraryPricingInfo                    ScheduleValidStartDate="2013-03-01"
ScheduleValidEndDate="1949-12-31">
        <ItinTotalFare>
            <Taxes>
                <Tax TaxCode="CN" Amount="50.0"/>
                <Tax TaxCode="YQ" Amount="120.0"/>
            </Taxes>
            <PricingInfos SinglePrice="1020.00" RoundPrice="2040.00" DiscountRate="90.0"
CurrencyCode="CNY"/>
        </ItinTotalFare>
        <FareInfos>
            <FareInfo Cabin="Y" ResBookDesigCode="B">
                <MarketingAirline Code="CA"/>
                <FareBasisCodes>
                    <FareBasisCode>B</FareBasisCode>
                </FareBasisCodes>
                <Rule RuleID="AV1G"/>
            </FareInfo>
        </FareInfos>
    </AirItineraryPricingInfo>
    <AirItineraryPricingInfo                    ScheduleValidStartDate="2013-03-01"
ScheduleValidEndDate="1949-12-31">
        <ItinTotalFare>
            <Taxes>
                <Tax TaxCode="CN" Amount="50.0"/>
                <Tax TaxCode="YQ" Amount="120.0"/>
            </Taxes>
            <PricingInfos SinglePrice="990.00" RoundPrice="1980.00" DiscountRate="88.0"
CurrencyCode="CNY"/>
        </ItinTotalFare>
        <FareInfos>
            <FareInfo Cabin="Y" ResBookDesigCode="M">
                <MarketingAirline Code="CA"/>
                <FareBasisCodes>
                    <FareBasisCode>M</FareBasisCode>
                </FareBasisCodes>
                <Rule RuleID="AV1G"/>
            </FareInfo>
```

```xml
            </FareInfos>
        </AirItineraryPricingInfo>
        <AirItineraryPricingInfo                          ScheduleValidStartDate="2013-03-01"
ScheduleValidEndDate="1949-12-31">
            <ItinTotalFare>
                <Taxes>
                    <Tax TaxCode="CN" Amount="50.0"/>
                    <Tax TaxCode="YQ" Amount="120.0"/>
                </Taxes>
                <PricingInfos SinglePrice="960.00" RoundPrice="1920.00" DiscountRate="85.0"
CurrencyCode="CNY"/>
            </ItinTotalFare>
            <FareInfos>
                <FareInfo Cabin="Y" ResBookDesigCode="M">
                    <MarketingAirline Code="CA"/>
                    <FareBasisCodes>
                        <FareBasisCode>M1</FareBasisCode>
                    </FareBasisCodes>
                    <Rule RuleID="AV1G"/>
                </FareInfo>
            </FareInfos>
        </AirItineraryPricingInfo>
        <AirItineraryPricingInfo                          ScheduleValidStartDate="2013-03-01"
ScheduleValidEndDate="1949-12-31">
            <ItinTotalFare>
                <Taxes>
                    <Tax TaxCode="CN" Amount="50.0"/>
                    <Tax TaxCode="YQ" Amount="120.0"/>
                </Taxes>
                <PricingInfos SinglePrice="900.00" RoundPrice="1800.00" DiscountRate="80.0"
CurrencyCode="CNY"/>
            </ItinTotalFare>
            <FareInfos>
                <FareInfo Cabin="Y" ResBookDesigCode="H">
                    <MarketingAirline Code="CA"/>
                    <FareBasisCodes>
                        <FareBasisCode>H</FareBasisCode>
                    </FareBasisCodes>
                    <Rule RuleID="AV1G"/>
                </FareInfo>
            </FareInfos>
        </AirItineraryPricingInfo>
        <AirItineraryPricingInfo                          ScheduleValidStartDate="2013-03-01"
ScheduleValidEndDate="1949-12-31">
```

```xml
        <ItinTotalFare>
            <Taxes>
                <Tax TaxCode="CN" Amount="50.0"/>
                <Tax TaxCode="YQ" Amount="120.0"/>
            </Taxes>
            <PricingInfos SinglePrice="880.00" RoundPrice="1760.00" DiscountRate="78.0"
CurrencyCode="CNY"/>
        </ItinTotalFare>
        <FareInfos>
            <FareInfo Cabin="Y" ResBookDesigCode="H">
                <MarketingAirline Code="CA"/>
                <FareBasisCodes>
                    <FareBasisCode>H1</FareBasisCode>
                </FareBasisCodes>
                <Rule RuleID="AV1G"/>
            </FareInfo>
        </FareInfos>
    </AirItineraryPricingInfo>
    <AirItineraryPricingInfo                            ScheduleValidStartDate="2013-03-01"
ScheduleValidEndDate="1949-12-31">
        <ItinTotalFare>
            <Taxes>
                <Tax TaxCode="CN" Amount="50.0"/>
                <Tax TaxCode="YQ" Amount="120.0"/>
            </Taxes>
            <PricingInfos SinglePrice="850.00" RoundPrice="1700.00" DiscountRate="75.0"
CurrencyCode="CNY"/>
        </ItinTotalFare>
        <FareInfos>
            <FareInfo Cabin="Y" ResBookDesigCode="K">
                <MarketingAirline Code="CA"/>
                <FareBasisCodes>
                    <FareBasisCode>K</FareBasisCode>
                </FareBasisCodes>
                <Rule RuleID="AV1G"/>
            </FareInfo>
        </FareInfos>
    </AirItineraryPricingInfo>
    <AirItineraryPricingInfo                            ScheduleValidStartDate="2013-03-01"
ScheduleValidEndDate="1949-12-31">
        <ItinTotalFare>
            <Taxes>
                <Tax TaxCode="CN" Amount="50.0"/>
                <Tax TaxCode="YQ" Amount="120.0"/>
```

```xml
                </Taxes>
                <PricingInfos SinglePrice="820.00" RoundPrice="1640.00" DiscountRate="73.0"
CurrencyCode="CNY"/>
            </ItinTotalFare>
            <FareInfos>
                <FareInfo Cabin="Y" ResBookDesigCode="K">
                    <MarketingAirline Code="CA"/>
                    <FareBasisCodes>
                        <FareBasisCode>K1</FareBasisCode>
                    </FareBasisCodes>
                    <Rule RuleID="AV1G"/>
                </FareInfo>
            </FareInfos>
    </AirItineraryPricingInfo>
    <AirItineraryPricingInfo                                ScheduleValidStartDate="2013-03-01"
ScheduleValidEndDate="1949-12-31">
            <ItinTotalFare>
                <Taxes>
                    <Tax TaxCode="CN" Amount="50.0"/>
                    <Tax TaxCode="YQ" Amount="120.0"/>
                </Taxes>
                <PricingInfos SinglePrice="790.00" RoundPrice="1580.00" DiscountRate="70.0"
CurrencyCode="CNY"/>
            </ItinTotalFare>
            <FareInfos>
                <FareInfo Cabin="Y" ResBookDesigCode="L">
                    <MarketingAirline Code="CA"/>
                    <FareBasisCodes>
                        <FareBasisCode>L</FareBasisCode>
                    </FareBasisCodes>
                    <Rule RuleID="AV1G"/>
                </FareInfo>
            </FareInfos>
    </AirItineraryPricingInfo>
    <AirItineraryPricingInfo                                ScheduleValidStartDate="2013-03-01"
ScheduleValidEndDate="1949-12-31">
            <ItinTotalFare>
                <Taxes>
                    <Tax TaxCode="CN" Amount="50.0"/>
                    <Tax TaxCode="YQ" Amount="120.0"/>
                </Taxes>
                <PricingInfos SinglePrice="730.00" RoundPrice="1460.00" DiscountRate="65.0"
CurrencyCode="CNY"/>
            </ItinTotalFare>
```

```xml
            <FareInfos>
                <FareInfo Cabin="Y" ResBookDesigCode="L">
                    <MarketingAirline Code="CA"/>
                    <FareBasisCodes>
                        <FareBasisCode>L1</FareBasisCode>
                    </FareBasisCodes>
                    <Rule RuleID="AV1G"/>
                </FareInfo>
            </FareInfos>
        </AirItineraryPricingInfo>
        <AirItineraryPricingInfo                          ScheduleValidStartDate="2013-03-01"
ScheduleValidEndDate="1949-12-31">
            <ItinTotalFare>
                <Taxes>
                    <Tax TaxCode="CN" Amount="50.0"/>
                    <Tax TaxCode="YQ" Amount="120.0"/>
                </Taxes>
                <PricingInfos SinglePrice="680.00" RoundPrice="1360.00" DiscountRate="60.0"
CurrencyCode="CNY"/>
            </ItinTotalFare>
            <FareInfos>
                <FareInfo Cabin="Y" ResBookDesigCode="Q">
                    <MarketingAirline Code="CA"/>
                    <FareBasisCodes>
                        <FareBasisCode>Q</FareBasisCode>
                    </FareBasisCodes>
                    <Rule RuleID="AV1G"/>
                </FareInfo>
            </FareInfos>
        </AirItineraryPricingInfo>
        <AirItineraryPricingInfo                          ScheduleValidStartDate="2013-03-01"
ScheduleValidEndDate="1949-12-31">
            <ItinTotalFare>
                <Taxes>
                    <Tax TaxCode="CN" Amount="50.0"/>
                    <Tax TaxCode="YQ" Amount="120.0"/>
                </Taxes>
                <PricingInfos SinglePrice="620.00" RoundPrice="1240.00" DiscountRate="55.0"
CurrencyCode="CNY"/>
            </ItinTotalFare>
            <FareInfos>
                <FareInfo Cabin="Y" ResBookDesigCode="Q">
                    <MarketingAirline Code="CA"/>
                    <FareBasisCodes>
```

```xml
                    <FareBasisCode>Q1</FareBasisCode>
                </FareBasisCodes>
                <Rule RuleID="AV1G"/>
            </FareInfo>
        </FareInfos>
    </AirItineraryPricingInfo>
    <AirItineraryPricingInfo                          ScheduleValidStartDate="2013-03-01"
ScheduleValidEndDate="1949-12-31">
        <ItinTotalFare>
            <Taxes>
                <Tax TaxCode="CN" Amount="50.0"/>
                <Tax TaxCode="YQ" Amount="120.0"/>
            </Taxes>
            <PricingInfos SinglePrice="570.00" RoundPrice="1140.00" DiscountRate="50.0"
CurrencyCode="CNY"/>
        </ItinTotalFare>
        <FareInfos>
            <FareInfo Cabin="Y" ResBookDesigCode="G">
                <MarketingAirline Code="CA"/>
                <FareBasisCodes>
                    <FareBasisCode>G</FareBasisCode>
                </FareBasisCodes>
                <Rule RuleID="AV1G"/>
            </FareInfo>
        </FareInfos>
    </AirItineraryPricingInfo>
    <AirItineraryPricingInfo                          ScheduleValidStartDate="2013-03-01"
ScheduleValidEndDate="1949-12-31">
        <ItinTotalFare>
            <Taxes>
                <Tax TaxCode="CN" Amount="50.0"/>
                <Tax TaxCode="YQ" Amount="120.0"/>
            </Taxes>
            <PricingInfos SinglePrice="510.00" RoundPrice="1020.00" DiscountRate="45.0"
CurrencyCode="CNY"/>
        </ItinTotalFare>
        <FareInfos>
            <FareInfo Cabin="Y" ResBookDesigCode="V">
                <MarketingAirline Code="CA"/>
                <FareBasisCodes>
                    <FareBasisCode>V</FareBasisCode>
                </FareBasisCodes>
                <Rule RuleID="AV1G"/>
            </FareInfo>
```

```
        </FareInfos>
    </AirItineraryPricingInfo>
    <AirItineraryPricingInfo                    ScheduleValidStartDate="2013-11-22"
ScheduleValidEndDate="1949-12-31">
        <ItinTotalFare>
            <Taxes>
                <Tax TaxCode="CN" Amount="50.0"/>
                <Tax TaxCode="YQ" Amount="120.0"/>
            </Taxes>
            <PricingInfos  SinglePrice="450.00"  RoundPrice="900.00"  DiscountRate="40.0"
CurrencyCode="CNY"/>
        </ItinTotalFare>
        <FareInfos>
            <FareInfo Cabin="Y" ResBookDesigCode="V">
                <MarketingAirline Code="CA"/>
                <FareBasisCodes>
                    <FareBasisCode>V1</FareBasisCode>
                </FareBasisCodes>
                <Rule RuleID="AV1G"/>
            </FareInfo>
        </FareInfos>
    </AirItineraryPricingInfo>
</OTA_AirFareDisplayRS>
```

8. 接口调用

国内运价查询服务提供基于 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/AirFareDisplay/D?xsd

接口试用地址： http://espeed.travelsky.com/develop/xml/AirFareDisplay/D

8.4 JAVA 调用示例

Java 调用 http 接口示例如下：

其中该样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)
 */
```

```java
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
```

```java
                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();
            }

        }
}

                    throw new Exception(
                            "Invoke Post Method Failed, HttpStatus = " + statusCode);
                }
            byte[] responseBody = postMethod.getResponseBody(); // 读取内容
            response = new String(responseBody);
            System.out.println("response string =\n" + response); // 返回内容
        } catch (Exception e) {
            e.printStackTrace();
        } finally {
            postMethod.releaseConnection();    // 释放连接
        }
```

```
            return response;
        }
}
```

8.5.NET 调用示例

.Net 调用 http 接口示例如下：

其中该样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);
        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);
```