

## 21.3 Advanced use cases

Recompute the Order amount by adding card OB fees

## Description

This use case illustrates a passenger booking a 3 passengers order and paying this order using a credit card. However, the airline set up OB fees for this card.

## Steps

### NDC flow & description:

Pre requisite: Prime booking unpaid without card OB fees.

OrderRetrieveRQ: Seller requests for the retrieval of selected OrderID.

OrderViewRS: Airline responds with the created order.

OrderQuoteRQ: Seller requests the pricing of the card OB fee without repricing the order.

OrderReshopRS: Airline responds with the new amounts.

OrderChangeRQ: Seller requests the update of the order with or without payment.

OrderViewRS: Airline responds with the Updated order.

## Analysis

**OrderRetreiveRQ**: Seller requests the retrieval of selected OrderID.

**AirShoppingRS**: Airline replies with the display of the order.

**OrderQuoteRQ**: This OrderQuote request allows the seller to add card OB fees to an existing order. The seller adds in input some of the passenger card's information. If the TST is expired, the order will be automatically repriced (it is not the case in this example).

```

<Payload>
  <ExistingOrder>
    <OrderID>6X123WUQJVA00</OrderID>
    <OwnerCode>6X</OwnerCode>
  </ExistingOrder>
  <PaymentFunctions>
    <PaymentMethodCriteria>
      <PaymentBrandCode>VI</PaymentBrandCode>
      <PaymentCriteriaAddlInfo>
        <PaymentCardCriteriaAddlInfo>
          <IIN_IINNumber>414720</IIN_IINNumber>
        </PaymentCardCriteriaAddlInfo>
      </PaymentCriteriaAddlInfo>
      <PaymentTypeCode>CC</PaymentTypeCode>
    </PaymentMethodCriteria>
  </PaymentFunctions>
</Payload>

```

Code Block 1 OrderQuote request

**Note:** The field IIN\_IINNumber contain the 6 first numbers of the passenger card number. This card has to be the same at OrderChange time.

**OrderReshopRS:** The OrderReshopRS returns the full price details of the selected OfferID, including the base amount, the fee breakdown, the tax breakdown and the total amount.

The card OB fee breakdown is returned in the  
/IATA\_OrderReshopRS/Response/ReshopResults/RepricedOffer/RepricedOfferItem/FareDetail/Price

As the FareDetail are returned per passenger type, all fee amount are returned per passenger type. The card OB fees are included in  
/IATA\_OfferPriceRS/Response/PricedOffer/OfferItem/FareDetail/Price/TotalAmount.

```

<FareDetail>
  <FareComponent>
    <CabinType>
      <CabinTypeCode>2</CabinTypeCode>
      <CabinTypeName>BUSINESS</CabinTypeName>
    </CabinType>
    <FareBasisCode>INN0S9BZ</FareBasisCode>
    <NegotiatedCode>749</NegotiatedCode>
    <PaxSegmentRefID>SEG1</PaxSegmentRefID>
    <PriceClassRefID>FFM1</PriceClassRefID>
    <RBD>
      <RBD_Code>I</RBD_Code>
    </RBD>
  </FareComponent>
  <PaxRefID>PAX2</PaxRefID>
  <Price>
    <BaseAmount CurCode="THB">10430</BaseAmount>
    <Fee>
      <Amount CurCode="THB">225</Amount>
      <DescText>Credit Card OB fees</DescText>
      <DesigText>FCA</DesigText>
      <RefundInd>>false</RefundInd>
    </Fee>
    <TaxSummary>
      <Tax>
        <AddlTaxCode>AP</AddlTaxCode>
        <Amount CurCode="THB">225</Amount>
        <TaxCode>DQ</TaxCode>
      </Tax>
      <Tax>
        <AddlTaxCode>DP</AddlTaxCode>
        <Amount CurCode="THB">440</Amount>
        <TaxCode>FI</TaxCode>
      </Tax>
      <Tax>
        <AddlTaxCode>AV</AddlTaxCode>
        <Amount CurCode="THB">40</Amount>
        <TaxCode>XU</TaxCode>
      </Tax>
      <TotalTaxAmount CurCode="THB">705</TotalTaxAmount>
    </TaxSummary>
    <TotalAmount CurCode="THB">11360</TotalAmount>
  </Price>
</FareDetail>

```

Code Block 2 FareDetail

However, the  
/IATA\_OrderReshopRS/Response/ReshopResults/RepricedOffer/RepricedOfferItem/**TotalPrice**  
is computed differently.

```
<TotalPrice>
  <BaseAmount CurCode="THB">18275</BaseAmount>
  <TaxSummary>
    <TotalTaxAmount CurCode="THB">1410</TotalTaxAmount>
  </TaxSummary>
  <TotalAmount CurCode="THB">19685</TotalAmount>
</TotalPrice>
```

Code Block 3 RePricedOrderItem/TotalPrice

The card OB fee are not included in  
/IATA\_OrderReshopRS/Response/ReshopResults/RepricedOffer/RepricedOfferItem/**TotalPrice/TotalAmount**.

As card OB fees are not included the field  
/IATA\_OrderReshopRS/Response/ReshopResults/RepricedOffer/RepricedOfferItem/**OriginalOrderItem/TotalPrice/TotalAmount**

and  
/IATA\_OrderReshopRS/Response/ReshopResults/RepricedOffer/RepricedOfferItem/**TotalPrice/TotalAmount** should have the same value.

**Finally**, the total amount of card OB fee for the order is returned in  
/IATA\_OrderReshopRS/Response/PaymentFunctions.

```
<PaymentFunctions>
  <OfferAssociation>
    <OfferRefID>Cg9KDUFZMTA1V1VRSIZBMDDKAQWSAKNDKgYOMTQ3MjA=</OfferRefID>
    <OwnerCode>6X</OwnerCode>
  </OfferAssociation>
  <PaymentSupportedMethod>
    <PaymentMethodAddlInfo>
      <PaymentCardAddlInfo>
        <CardTypeText>Credit card</CardTypeText>
      </PaymentCardAddlInfo>
    </PaymentMethodAddlInfo>
    <PaymentSurcharge>
      <PreciseAmount CurCode="THB">400</PreciseAmount>
    </PaymentSurcharge>
    <PaymentTypeCode>CC</PaymentTypeCode>
  </PaymentSupportedMethod>
</PaymentFunctions>
```

Code Block 4 Response/PaymentFunctions

The total amount to be paid by card for this offer need to be calculated. Two methods are possible.

- Sum of the /FareDetail/Price/TotalAmount
- Sum of /RepricedOfferItem/TotalPrice/TotalAmount and of /PaymentFunctions/PaymentSupportedMethod/PaymentSurcharge/PreciseAmount

**Transition:** To finalize the flow, the seller will need to provide the OfferRefID. In this flow it is a base64 blob. In this example it is

`Cg9KDUFZMTA1V1VRSIZBMDDKAQwSAkNDKgY0MTQ3MjA=.`

### OrderChangeRQ:

The seller must provide the OfferRefID in the node

`/IATA_OrderChangeRQ/Request/ChangeOrderChoice/AcceptRepricedOrder/OfferRefID.`

```
<Request>
  <ChangeOrderChoice>
    <AcceptRepricedOrder>
      <OfferRefID>Cg9KDUFZMTA1V1VRSIZBMDDKAQwSAkNDKgY0MTQ3MjA=</OfferRefID>
    </AcceptRepricedOrder>
  </ChangeOrderChoice>
  <Order>
    <OrderID>6X123WUQJVA00</OrderID>
    <OwnerCode>6X</OwnerCode>
  </Order>
</Request>
```

Code Block 5 OrderChange request

In addition if the seller wants to pay the order, the card info of the passenger need to be in the input by adding a PaymentFunction section.

```

<PaymentFunctions>
  <OfferAssociation>
    <OfferRefID>Cg9KDUFZMTA1V1VRSIZBMDDKAQwSAkNDKgYOMTQ3MjA=</OfferRefID>
    <OwnerCode>6X</OwnerCode>
  </OfferAssociation>
  <PaymentProcessingDetails>
    <Amount CurCode="THB">20085</Amount>
    <PaymentMethod>
      <PaymentCard>
        <CardBrandCode>VI</CardBrandCode>
        <CardholderAddress>
          <CityName>New York City</CityName>
          <CountryCode>US</CountryCode>
          <CountrySubDivisionName>NEW YORK</CountrySubDivisionName>
          <PostalCode>NY 10001</PostalCode>
          <StreetText>350 FIFTH AVENUE</StreetText>
        </CardholderAddress>
        <CardHolderName>Dessee</CardHolderName>
        <CardNumber>4147209999990008</CardNumber>
        <CardSecurityCode>123</CardSecurityCode>
        <ExpirationDate>1230</ExpirationDate>
        <SecurePaymentVersion2>
      </PaymentCard>
    </PaymentMethod>
    <AuthenticationTokenValue>WTJGeVpHbHVZV3hqYJlxdFpYSmpaV0YxZEdnPQ==</AuthenticationTokenValue>
  </PaymentProcessingDetails>
  <DirectoryServerTrxID>M2Q1MGY2ZTUtZGY0My00M2M2LWFIYWYtZDY5OTE4NTg0ZjRI</DirectoryServerTrxID>
    <ElectronicCommerceInd>05</ElectronicCommerceInd>
    <PaymentTrxChannelCode>EC</PaymentTrxChannelCode>
    <ProgramProtocolText>2.1.0</ProgramProtocolText>
    <TrxStatusText>Y</TrxStatusText>
  </DirectoryServerTrxID>
</PaymentFunctions>

```

Code Block 6 OrderChange request

## OrderViewRS:

In the OrderViewRS, the seller can see:

- the order updated.
- the fee breakdown.

The fee breakdown follow a similar logic like previously .

The full breakdown is displayed per PTC in  
 /IATA\_OrderViewRS/Response/Order/OrderItem/FareDetail/Price and are included in  
 /IATA\_OrderViewRS/Response/Order/OrderItem/FareDetail[2]/Price/TotalAmount

```

<FareDetail>
  <...>
  <PaxRefID>PAX3</PaxRefID>
  <Price>
    <BaseAmount CurCode="THB">7845</BaseAmount>
    <Fee>
      <Amount CurCode="THB">175</Amount>
      <DescText>Credit Card OB fees</DescText>
      <DesigText>FCA</DesigText>
    </Fee>
    <TaxSummary>
      <Tax>
        <AddTaxCode>AP</AddTaxCode>
        <Amount CurCode="THB">225</Amount>
        <TaxCode>DQ</TaxCode>
      </Tax>
      <Tax>
        <AddTaxCode>DP</AddTaxCode>
        <Amount CurCode="THB">440</Amount>
        <TaxCode>FI</TaxCode>
      </Tax>
      <Tax>
        <AddTaxCode>AV</AddTaxCode>
        <Amount CurCode="THB">40</Amount>
        <TaxCode>XU</TaxCode>
      </Tax>
      <TotalTaxAmount CurCode="THB">705</TotalTaxAmount>
    </TaxSummary>
    <TotalAmount CurCode="THB">8725</TotalAmount>
  </Price>
</FareDetail>
  
```

Code Block 7 FareDetail section

However they are not included in /IATA\_OrderViewRS/Response/Order/OrderItem/Price



```

<Price>
  <BaseAmount CurCode="THB">18275</BaseAmount>
  <TaxSummary>
    <Tax>
      <Amount CurCode="THB">880</Amount>
      <TaxCode>FI</TaxCode>
    </Tax>
    <Tax>
      <Amount CurCode="THB">80</Amount>
      <TaxCode>XU</TaxCode>
    </Tax>
    <Tax>
      <Amount CurCode="THB">450</Amount>
      <TaxCode>DQ</TaxCode>
    </Tax>
    <TotalTaxAmount CurCode="THB">1410</TotalTaxAmount>
  </TaxSummary>
  <TotalAmount CurCode="THB">19685</TotalAmount>
</Price>

```

Code Block 8 OrderItem/Price

They are **not included either** in /IATA\_OrderViewRS/Response/Order/TotalPrice

```

<TotalPrice>
  <BaseAmount CurCode="THB">18275</BaseAmount>
  <TaxSummary>
    <TotalTaxAmount CurCode="THB">1410</TotalTaxAmount>
  </TaxSummary>
  <TotalAmount CurCode="THB">19685</TotalAmount>
</TotalPrice>

```

Code Block 9 Order/TotalPrice

**Finally**, the total amount of card OB fee for the order is returned in /IATA\_OrderViewRS/PaymentFunctions/PaymentSupportedMethod

```
<PaymentFunctions>
  <OrderAssociation>
    <OrderItemRefID>6X123WUUIH500_AIR-1</OrderItemRefID>
    <OrderRefID>6X123WUUIH500</OrderRefID>
  </OrderAssociation>
  <PaymentSupportedMethod>
    <PaymentMethodAddlInfo>
      <PaymentCardAddlInfo>
        <CardTypeText>Credit card</CardTypeText>
      </PaymentCardAddlInfo>
    </PaymentMethodAddlInfo>
    <PaymentSurcharge>
      <PreciseAmount CurCode="THB">400</PreciseAmount>
    </PaymentSurcharge>
    <PaymentTypeCode>CC</PaymentTypeCode>
  </PaymentSupportedMethod>
</PaymentFunctions>
```

Code Block 10 OrderViewRS PaymentFunctions UNPAID

```

<PaymentFunctions>
  <OrderAssociation>
    <OrderItemRefID>6X123WUUIH500_AIR-1</OrderItemRefID>
    <OrderRefID>6X123WUUIH500</OrderRefID>
  </OrderAssociation>
  <PaymentProcessingSummary>
    <Amount CurCode="THB">20085</Amount>
    <PaymentID>PAY1</PaymentID>
    <PaymentProcessingSummaryPaymentMethod>
      <PaymentCard>
        <CardBrandCode>VI</CardBrandCode>
        <CardholderAddress>
          <CityName>New York City</CityName>
          <CountryCode>US</CountryCode>
          <CountrySubDivisionName>NEW YORK</CountrySubDivisionName>
          <PostalCode>NY 10001</PostalCode>
          <StreetText>350 FIFTH AVENUE</StreetText>
        </CardholderAddress>
        <CardHolderName>Dessee</CardHolderName>
        <ExpirationDate>1230</ExpirationDate>
        <MaskedCardID>XXXXXXXXXXXX0008</MaskedCardID>
      </PaymentCard>
    </PaymentProcessingSummaryPaymentMethod>
    <PaymentStatusCode>SUCCESSFUL</PaymentStatusCode>
    <SurchargeAmount CurCode="THB">400</SurchargeAmount>
  </PaymentProcessingSummary>
  <PaymentSupportedMethod>
    <PaymentMethodAddlInfo>
      <PaymentCardAddlInfo>
        <CardTypeText>Credit card</CardTypeText>
      </PaymentCardAddlInfo>
    </PaymentMethodAddlInfo>
    <PaymentSurcharge>
      <PreciseAmount CurCode="THB">400</PreciseAmount>
    </PaymentSurcharge>
    <PaymentTypeCode>CC</PaymentTypeCode>
  </PaymentSupportedMethod>
</PaymentFunctions>

```

Code Block 11 OrderViewRS PaymentFunctions PAID

