

Altea NDC

21.3 Starter Kit

SHP1 - Shop and order a flight for a single passenger.

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1 Use case

SHP1: Shop and order a flight for a single passenger.

Description:

This use case covers a prime booking flow, i.e. the steps between simple shopping (no a la carte seats or services) and order creation with/without payment.

2 Steps

NDC flow & description:

AirShoppingRQ: Seller requests flight offers to airline providing origins, destinations, and dates, for one Adult and for a One Way

AirShoppingRS: Airline replies with different flight offers

OfferPriceRQ: Seller requests the selection of flight offer

OfferPriceRS: Airline responds with a unified priced offer with selected flight service

OrderCreateRQ: Seller requests creation of the order with the selected priced offer, with a payment in Cash

OrderViewRS: Airlines responds with the created order

3 Analysis

All shared information such as DistributionChainLink can be retrieved in “AmadeusAlteaNDC_Shared21.3” Implementation Guide

AirShoppingRQ:

Seller requests flight offers to airline providing origins, destination pair, travel dates and travelling passengers.

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```

<n1:Request>
  <cns:FlightRequest>
    <cns:FlightRequestOriginDestinationsCriteria>
      <cns:OriginDestCriteria>
        <cns:CabinType>
          <cns:CabinTypeCode>5</cns:CabinTypeCode>
          <cns:PrefLevel>
            <cns:PrefLevelCode>Preferred</cns:PrefLevelCode>
          </cns:PrefLevel>
        </cns:CabinType>
        <cns:DestArrivalCriteria>
          <cns:IATA_LocationCode>CPH</cns:IATA_LocationCode>
        </cns:DestArrivalCriteria>
        <cns:OriginDepCriteria>
          <cns:Date>2023-07-15</cns:Date>
          <cns:IATA_LocationCode>HEL</cns:IATA_LocationCode>
        </cns:OriginDepCriteria>
      </cns:OriginDestCriteria>
    </cns:FlightRequestOriginDestinationsCriteria>
  </cns:FlightRequest>
  <cns:PaxList>
    <cns:Pax>
      <cns:PaxID>PAX1</cns:PaxID>
      <cns:PTC>ADT</cns:PTC>
    </cns:Pax>
  </cns:PaxList>
</n1:Request>

```

AirShoppingRS:

Airline replies with all travel solution recommendations they would like to propose to the seller.

```

<ns2:Offer>
  <ns2:BaggageAssociations>
    <ns2:BaggageAllowanceRefID>FBA1</ns2:BaggageAllowanceRefID>
    <ns2:OfferFlightAssociations>
      <ns2:PaxSegmentReferences>
        <ns2:PaxSegmentRefID>SEG2</ns2:PaxSegmentRefID>
      </ns2:PaxSegmentReferences>
    </ns2:OfferFlightAssociations>
    <ns2:PaxRefID>PAX1</ns2:PaxRefID>
  </ns2:BaggageAssociations>
  <ns2:JourneyOverview>
    <ns2:JourneyPriceClass>
      <ns2:PaxJourneyRefID>FLT1</ns2:PaxJourneyRefID>
    </ns2:JourneyPriceClass>
    <ns2:PriceClassRefID>ESLIGHT21</ns2:PriceClassRefID>
  </ns2:JourneyOverview>
  <ns2:OfferExpirationTimeLimitDateTime>2023-07-10T07:38:08Z
</ns2:OfferExpirationTimeLimitDateTime>
  <ns2:OfferID>SP2F-2172276059051069644-1
</ns2:OfferID>
  <ns2:OfferItem>
    <ns2:CancelRestrictions>
      <ns2:AllowedModificationInd>false</ns2:AllowedModificationInd>
    </ns2:CancelRestrictions>
  </ns2:OfferItem>

```

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```

    <ns2:DescText>Cancel not permitted</ns2:DescText>
</ns2:CancelRestrictions>
<ns2:ChangeRestrictions>
  <ns2:AllowedModificationInd>false</ns2:AllowedModificationInd>
  <ns2:DescText>Change not permitted</ns2:DescText>
</ns2:ChangeRestrictions>
<ns2:ChangeRestrictions>
  <ns2:AllowedModificationInd>false</ns2:AllowedModificationInd>
  <ns2:DescText>Reissue not permitted</ns2:DescText>
</ns2:ChangeRestrictions>
<ns2:FareDetail>
  <ns2:FareComponent>
    <ns2:CabinType>
      <ns2:CabinTypeCode>5</ns2:CabinTypeCode>
      <ns2:CabinTypeName>ECO</ns2:CabinTypeName>
    </ns2:CabinType>
    <ns2:FareBasisCode>QNY0S9BZ</ns2:FareBasisCode>
    <ns2:FareRule>
      <ns2:Remark>
        <ns2:RemarkText>NEGOTIATED FARE</ns2:RemarkText>
      </ns2:Remark>
    </ns2:FareRule>
    <ns2:PaxSegmentRefID>SEG2</ns2:PaxSegmentRefID>
    <ns2:PriceClassRefID>ESLIGHT21</ns2:PriceClassRefID>
    <ns2:RBD>
      <ns2:RBD_Code>Q</ns2:RBD_Code>
    </ns2:RBD>
  </ns2:FareComponent>
  <ns2:PaxRefID>PAX1</ns2:PaxRefID>
  <ns2:Price>
    <ns2:BaseAmount CurCode="EUR">91.00</ns2:BaseAmount>
    <ns2:TaxSummary>
      <ns2:TotalTaxAmount CurCode="EUR">16.77</ns2:TotalTaxAmount>
    </ns2:TaxSummary>
    <ns2:TotalAmount CurCode="EUR">107.77</ns2:TotalAmount>
  </ns2:Price>
</ns2:FareDetail>
<ns2:MandatoryInd>true</ns2:MandatoryInd>
<ns2:OfferItemID>SP2F- 2172276059051069644-1-1</ns2:OfferItemID>
<ns2:Price>
  <ns2:BaseAmount CurCode="EUR">91.00</ns2:BaseAmount>
  <ns2:TaxSummary>
    <ns2:TotalTaxAmount CurCode="EUR">16.77</ns2:TotalTaxAmount>
  </ns2:TaxSummary>
  <ns2:TotalAmount CurCode="EUR">107.77</ns2:TotalAmount>
</ns2:Price>
<ns2:Service>
  <ns2:OfferServiceAssociation>
    <ns2:PaxJourneyRef>
      <ns2:PaxJourneyRefID>FLT1</ns2:PaxJourneyRefID>
    </ns2:PaxJourneyRef>
  </ns2:OfferServiceAssociation>
  <ns2:PaxRefID>PAX1</ns2:PaxRefID>
  <ns2:ServiceID>1</ns2:ServiceID>
</ns2:Service>
</ns2:OfferItem>
<ns2:OwnerCode>6X</ns2:OwnerCode>

```

Transition: To move from AirShopping to OfferPrice request, the seller needs to send in input the OfferID to be priced. Here OfferID SP2F-2172276059051069644-1 as an example.

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OfferPriceRQ:

The OfferPrice request allows the user to refine the price of the offer selected from AirShoppingRS. On top of OfferID selected, the seller adds in input the passenger concerned.

Example:

```
<n1:Request>
  <DataLists>
    <PaxList>
      <Pax>
        <PaxID>PAX1</PaxID>
        <PTC>ADT</PTC>
      </Pax>
    </PaxList>
  </DataLists>
  <PricedOffer>
    <SelectedOfferList>
      <SelectedOffer>
        <OfferRefID>SP2F- 2172276059051069644-1</OfferRefID>
        <OwnerCode>6X</OwnerCode>
        <SelectedOfferItem>
          <OfferItemRefID>SP2F- 2172276059051069644-1-1</OfferItemRefID>
          <PaxRefID>PAX1</PaxRefID>
        </SelectedOfferItem>
      </SelectedOffer>
    </SelectedOfferList>
  </PricedOffer>
```

OfferPriceRS:

The OfferPriceRS returns the full price details of the selected OfferID, including the base amount, the tax breakdown and the total amount.

```
<ns2:Price>
  <ns2:BaseAmount CurCode="EUR">91.00</ns2:BaseAmount>
  <ns2:TaxSummary>
    <ns2:Tax>
      <ns2:Amount CurCode="EUR">5.41</ns2:Amount>
      <ns2:Country>
        <ns2:CountryCode>AP</ns2:CountryCode>
      </ns2:Country>
      <ns2:TaxCode>DQ</ns2:TaxCode>
    </ns2:Tax>
    <ns2:Tax>
      <ns2:Amount CurCode="EUR">10.46</ns2:Amount>
      <ns2:Country>
        <ns2:CountryCode>DP</ns2:CountryCode>
      </ns2:Country>
      <ns2:TaxCode>FI</ns2:TaxCode>
    </ns2:Tax>
    <ns2:Tax>
      <ns2:Amount CurCode="EUR">0.90</ns2:Amount>
      <ns2:Country>
        <ns2:CountryCode>AV</ns2:CountryCode>
      </ns2:Country>
      <ns2:TaxCode>XU</ns2:TaxCode>
    </ns2:Tax>
```

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```

    </ns2:Tax>
    <ns2:TotalTaxAmount CurCode="EUR">16.77</ns2:TotalTaxAmount>
  </ns2:TaxSummary>
  <ns2:TotalAmount CurCode="EUR">107.77</ns2:TotalAmount>

```

***Transition:** To finalize the prime booking flow, the seller will need to provide mandatory information to convert the offer to an order.*

OrderCreateRQ:

The seller must input:

- OfferID selected & priced.

```

<cns:CreateOrder>
  <cns:AcceptSelectedQuotedOfferList>
    <cns:SelectedPricedOffer>
      <cns:OfferRefID>SP2F-2172276059051069644-1</cns:OfferRefID>
      <cns:OwnerCode>6X</cns:OwnerCode>
      <cns:SelectedOfferItem>
        <cns:OfferItemRefID>SP2F-2172276059051069644-1-1</cns:OfferItemRefID>
        <cns:PaxRefID>PAX1</cns:PaxRefID>
      </cns:SelectedOfferItem>
    </cns:SelectedPricedOffer>
  </cns:AcceptSelectedQuotedOfferList>
</cns:CreateOrder>

```

- Passenger's contact details of the passenger

```

  <cns:ContactInfoList>
    <cns:ContactInfo>
      <cns:ContactInfoID>CTCPAX1_1</cns:ContactInfoID>
      <cns:EmailAddress>
        <cns:ContactTypeText>Home</cns:ContactTypeText>
        <cns:EmailAddressText>AA-DESSEE@MAIL.COM</cns:EmailAddressText>
      </cns:EmailAddress>
      <cns:EmailAddress>
        <cns:ContactTypeText>Business</cns:ContactTypeText>
        <cns:EmailAddressText>CA-DESSEE@MAIL.COM</cns:EmailAddressText>
      </cns:EmailAddress>
      <cns:IndividualRefID>PAX1</cns:IndividualRefID>
      <cns:Phone>
        <cns:ContactTypeText>Mobile</cns:ContactTypeText>
        <cns:PhoneNumber>+330929464935</cns:PhoneNumber>
      </cns:Phone>
      <cns:Phone>
        <cns:ContactTypeText>Home</cns:ContactTypeText>
        <cns:PhoneNumber>+33066523568923</cns:PhoneNumber>
      </cns:Phone>
      <cns:Phone>
        <cns:ContactTypeText>Business</cns:ContactTypeText>
        <cns:PhoneNumber>+33066523568922</cns:PhoneNumber>
      </cns:Phone>
    </cns:ContactInfo>
  </cns:ContactInfoList>

```

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- Passenger's name & title

```

<cns:PaxList>
  <cns:Pax>
    <cns:IdentityDoc>
      <cns:ExpiryDate>2029-08-13</cns:ExpiryDate>
      <cns:IdentityDocID>0123456789</cns:IdentityDocID>
      <cns:IdentityDocTypeCode>PT</cns:IdentityDocTypeCode>
      <cns:IssuingCountryCode>GB</cns:IssuingCountryCode>
      <cns:ResidenceCountryCode>GB</cns:ResidenceCountryCode>
      <cns:Surname>STCXN</cns:Surname>
    </cns:IdentityDoc>
    <cns:Individual>
      <cns:Birthdate>1986-12-08</cns:Birthdate>
      <cns:GenderCode>M</cns:GenderCode>
      <cns:GivenName>STCXN</cns:GivenName>
      <cns:IndividualID>PAX1</cns:IndividualID>
      <cns:Surname>STCXN</cns:Surname>
      <cns:TitleName>MR</cns:TitleName>
    </cns:Individual>
    <cns:LangUsage>
      <cns:LangCode>FR</cns:LangCode>
    </cns:LangUsage>
    <cns:PaxID>PAX1</cns:PaxID>
    <cns:PTC>ADT</cns:PTC>
    <cns:Remark>
      <cns:RemarkText>I AM BATMAN</cns:RemarkText>
    </cns:Remark>
  </cns:Pax>
</cns:PaxList>

```

- Method of payment (for instant payment)

```

<cns:PaymentFunctions>
  <cns:PaymentProcessingDetails>
    <cns:Amount CurCode="EUR">107.77</cns:Amount>
    <cns:PaymentMethod>
      <cns:OfflinePayment>
        <cns:PaymentTypeCode>CA</cns:PaymentTypeCode>
      </cns:OfflinePayment>
    </cns:PaymentMethod>
  </cns:PaymentProcessingDetails>
</cns:PaymentFunctions>

```

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OrderViewRS:

The OrderViewRS is the response of the OrderCreateRQ returning following information such as:

- **OrderID** that has been created:
`<ns2:OrderID>6X172JXKPY800</ns2:OrderID>`
 and some information related to it such as the price

```
<ns2:Order>
  <ns2:OrderID>6X172JXKPY800</ns2:OrderID>
  <ns2:OrderItem>
    <ns2:Commission>
      <ns2:Amount CurCode="EUR">0.00</ns2:Amount>
    </ns2:Commission>
    <ns2:FareDetail>
      <ns2:FareCalculationInfo>
        <ns2:AddlInfoText>FC-HEL 6X CPH97.45NUC97.45END ROE0.933742</ns2:AddlInfoText>
        <ns2:PricingCodeText>FC</ns2:PricingCodeText>
      </ns2:FareCalculationInfo>
      <ns2:FareComponent>
        <ns2:CabinType>
          <ns2:CabinTypeCode>5</ns2:CabinTypeCode>
          <ns2:CabinTypeName>ECONOMY</ns2:CabinTypeName>
        </ns2:CabinType>
        <ns2:FareBasisCode>QNY0S9BZ</ns2:FareBasisCode>
        <ns2:PaxSegmentRefID>SEG1</ns2:PaxSegmentRefID>
      </ns2:FareComponent>
      <ns2:PaxRefID>PAX1</ns2:PaxRefID>
      <ns2:Price>
        <ns2:BaseAmount CurCode="EUR">91.00</ns2:BaseAmount>
        <ns2:TaxSummary>
          <ns2:Tax>
            <ns2:Amount CurCode="EUR">5.41</ns2:Amount>
            <ns2:Country/>
            <ns2:TaxCode>DQ</ns2:TaxCode>
          </ns2:Tax>
          <ns2:Tax>
            <ns2:Amount CurCode="EUR">10.46</ns2:Amount>
            <ns2:Country/>
            <ns2:TaxCode>FI</ns2:TaxCode>
          </ns2:Tax>
          <ns2:Tax>
            <ns2:Amount CurCode="EUR">0.90</ns2:Amount>
            <ns2:Country/>
            <ns2:TaxCode>XU</ns2:TaxCode>
          </ns2:Tax>
          <ns2:TotalTaxAmount CurCode="EUR">16.77</ns2:TotalTaxAmount>
        </ns2:TaxSummary>
        <ns2:TotalAmount CurCode="EUR">107.77</ns2:TotalAmount>
      </ns2:Price>
    </ns2:FareDetail>
    <ns2:OrderItemID>6X172JXKPY800_AIR-1</ns2:OrderItemID>
    <ns2:OwnerCode>6X</ns2:OwnerCode>
    <ns2:Price>
      <ns2:BaseAmount CurCode="EUR">91.00</ns2:BaseAmount>
      <ns2:Fee>
        <ns2:Amount>0</ns2:Amount>
      </ns2:Fee>
      <ns2:TaxSummary>
        <ns2:TotalTaxAmount CurCode="EUR">16.77</ns2:TotalTaxAmount>
      </ns2:TaxSummary>
      <ns2:TotalAmount CurCode="EUR">107.77</ns2:TotalAmount>
    </ns2:Price>
    <ns2:Service>
```

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```

<ns2:BookingRef>
  <ns2:BookingEntity>
    <ns2:Carrier>
      <ns2:AirlineDesigCode>6X</ns2:AirlineDesigCode>
    </ns2:Carrier>
  </ns2:BookingEntity>
  <ns2:BookingID>JXKPY8</ns2:BookingID>
</ns2:BookingRef>
<ns2:OrderServiceAssociation>
  <ns2:ServiceDefinitionRef>
    <ns2:OrderFlightAssociations>
      <ns2:PaxSegmentRef>
        <ns2:PaxSegmentRefID>SEG1</ns2:PaxSegmentRefID>
      </ns2:PaxSegmentRef>
    </ns2:OrderFlightAssociations>
    <ns2:ServiceDefinitionRefID>BAGALLOW_1</ns2:ServiceDefinitionRefID>
  </ns2:ServiceDefinitionRef>
</ns2:OrderServiceAssociation>
<ns2:PaxRefID>PAX1</ns2:PaxRefID>
<ns2:ServiceID>SEG1_PAX1</ns2:ServiceID>
<ns2:StatusCode>HK</ns2:StatusCode>
</ns2:Service>
</ns2:OrderItem>
<ns2:OwnerCode>6X</ns2:OwnerCode>
<ns2:TotalPrice>
  <ns2:BaseAmount CurCode="EUR">91.00</ns2:BaseAmount>
  <ns2:TaxSummary>
    <ns2:TotalTaxAmount CurCode="EUR">16.77</ns2:TotalTaxAmount>
  </ns2:TaxSummary>
  <ns2:TotalAmount CurCode="EUR">107.77</ns2:TotalAmount>
</ns2:TotalPrice>
</ns2:Order>

```

- *TicketDocInfo* with ticketing information such as ticket number, coupon status....

```

<ns2:TicketDocInfo>
  <ns2:BookingAgency>
    <ns2:AgencyID></ns2:AgencyID>
    <ns2:TravelAgent>
      <ns2:TravelAgentID>9973WS/SU</ns2:TravelAgentID>
    </ns2:TravelAgent>
  </ns2:BookingAgency>
  <ns2:BookletQty>1</ns2:BookletQty>
  <ns2:OriginalIssueInfo>
    <ns2:IssueDate>2023-07-10</ns2:IssueDate>
    <ns2:IssuingCarrier>
      <ns2:AirlineDesigCode>6X</ns2:AirlineDesigCode>
    </ns2:IssuingCarrier>
  </ns2:OriginalIssueInfo>
  <ns2:PaxRefID>PAX1</ns2:PaxRefID>
  <ns2:Ticket>
    <ns2:Coupon>
      <ns2:BaggageAllowanceRefID>FBA1</ns2:BaggageAllowanceRefID>
      <ns2:CouponNumber>1</ns2:CouponNumber>
      <ns2:CouponStatusCode>I</ns2:CouponStatusCode>
      <ns2:CurrentCouponFlightInfoRef>
        <ns2:CurrentAirlinePaxSegmentRef>
          <ns2:PaxSegmentRefID>SEG1</ns2:PaxSegmentRefID>
        </ns2:CurrentAirlinePaxSegmentRef>
      </ns2:CurrentCouponFlightInfoRef>
      <ns2:FareBasisCode>QNY0S9BZ</ns2:FareBasisCode>
    </ns2:Coupon>
    <ns2:ReportingTypeCode>BSP</ns2:ReportingTypeCode>
    <ns2:TicketDocTypeCode>T</ns2:TicketDocTypeCode>
    <ns2:TicketNumber>1722476917246</ns2:TicketNumber>
  </ns2:Ticket>
</ns2:TicketDocInfo>

```

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```
</ns2:Ticket>
</ns2:TicketDocInfo>
```

- *PaymentFunctions* with form of payment used and the amount paid.

```
<ns4:PaymentFunctions>
  <ns2:OrderAssociation>
    <ns2:OrderItemRefID>6X172JXKPY800_AIR-1</ns2:OrderItemRefID>
    <ns2:OrderRefID>6X172JXKPY800</ns2:OrderRefID>
  </ns2:OrderAssociation>
  <ns2:PaymentProcessingSummary>
    <ns2:Amount CurCode="EUR">107.77</ns2:Amount>
    <ns2:PaymentID>PAY1</ns2:PaymentID>
    <ns2:PaymentProcessingSummaryPaymentMethod>
      <ns2:SettlementPlan>
        <ns2:IATA_Number>23272325</ns2:IATA_Number>
        <ns2:PaymentTypeCode>CASH</ns2:PaymentTypeCode>
      </ns2:SettlementPlan>
    </ns2:PaymentProcessingSummaryPaymentMethod>
    <ns2:SurchargeAmount>0</ns2:SurchargeAmount>
  </ns2:PaymentProcessingSummary>
</ns4:PaymentFunctions>
```



4 Order reflected in the Airline PSS

Here below the PNR created in the Airline PSS corresponding to the OrderID:

<ns2:OrderID>**6X172JXKPY800**</ns2:OrderID>

```

RP/LON6X07ST/LON6X07ST          WS/SU    3JUL23/1226Z    JXKPY8
1.STCXN/STCXN MR (ADT/08DEC86)
2  6X 951 Q 15JUL 6 HELCPH HK1  0640      0725 0805    *1A/E*
3 APB +33066523568922
4 APE AA-DESSEE@MAIL.COM
5 APE CA-DESSEE@MAIL.COM
6 APH +33066523568923
7 APM +330929464935
8 APM +330929464931
9 APN 6X/E+NTF-DESSEE@MAIL.COM/FR
10 TK OK03JUL/LON6X07ST//ET6X
11 SSR CTCE 6X HK1 NTF./DESSEE//MAIL.COM/FR
12 SSR DOCS 6X HK1 P/GBR/0123456789/GBR/08DEC86/M/13AUG29/STCXN/STCXN
13 SSR CTCE 6X HK1 AA./DESSEE//MAIL.COM
14 SSR CTCE 6X HK1 CA./DESSEE//MAIL.COM
15 SSR CTCM 6X HK1 330929464935
16 SSR CTCM 6X HK1 330929464931
17 SK NDCS 6X IN-23272325/
18 SK NDCA 6X AG-1A
19 SK NDCF 6X FLEX_STANDARD
20 SK NDOI 6X
21 SK NDCL 6X -NDCLINK
22 SK NDCO 6X 6X172JXKPY800
23 RM I AM BATMAN
24 FA PAX 172-2476910546/ET6X/EUR107.77/03JUL23/LON6X07ST/91406884/S2
25 FB PAX 0000000000 TTP/ET/RT OK ETICKET ADVISE PSGR TO BRINGPICT ID
AT APT/S2
26 FE PAX NO BAG INCL/NONREF-NO CHNG/S2
27 FP PAX CASH/EUR107.77/S2
28 FV PAX *F*6X/S2
29 FZ RA23272325
30 AB DESSEE/ROUTE LINE 1/ROUTE LINE 2/PARIS//06600/FR
31 AM STCXN STCXN MR/ROUTE LINE 1/ROUTE LINE 2/PARIS/06600//FR

```