Altea NDC

21.3 Starter Kit

SHP2 - Shop and order a flight and an ancillary for a single passenger.

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Document control				
Security level	Altea NDC Customers			
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Department	Altea NDC			
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Approved by	Anne Savini		Date	07/09/2023
Version	Date	Change	Comment	By
1	2023-08-30	Original		

1 Use case

SHP2: Shop and order a flight and an ancillary for a single passenger.

Description:

This use case illustrates the creation of an order for a single passenger booking for a flight and selecting an ancillary with/without payment. In this use case the passenger selects an upsell offer proposed by the airline

2 Steps

NDC flow & description:

AirShoppingRQ: Seller requests flight offers to airline providing origin, destination, and date
AirShoppingRS: Airline replies with different flight offers
ServiceListRQ: Seller requests for additional ancillaries on a selected flight offer
ServiceListRS: Airline responds with excess bag (or any other ancillary)
OfferPriceRQ: Seller requests the selection of flight offer with the chosen ancillary
OfferPriceRS: Airline responds with a unified priced offer with selected flight service and ancillary service along with upsell offers
OrderCreateRQ: Seller requests creation of the order with the selected offers
OrderViewRS: Airlines responds with the created order

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3 Analysis

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

AirShoppingRQ:
The seller requests flight offers to airline providing origin, destination, travel date and travelling passengers.

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

Transition: *At this stage, if the seller would like to add a service, the seller needs to send in input the OfferID selected for which a list of services should be returned. Here OfferID SP2F-14392024692515288519-1 as an example.*

ServiceListRQ:
The seller requests the catalogue of services (chargeable and free) for the selected flight offer.

```
<cns:ServiceListCoreRequest>
    <cns:OfferRequest>
        <cns:Offer>
            <cns:OfferID>SP2F-14392024692515288519-1</cns:OfferID>
            <cns:OfferItem>
                <cns:OfferItemID>SP2F-14392024692515288519-1-1</cns:OfferItemID>
                <cns:Service>
                    <cns:ServiceID>1</cns:ServiceID>
                </cns:Service>
            </cns:OfferItem>
            <cns:OwnerCode>6X</cns:OwnerCode>
        </cns:Offer>
    </cns:OfferRequest>
</cns:ServiceListCoreRequest>
```

ServiceListRS:
Airline replies with the list of Ancillary services including their prices when applicable.

In the ALaCarteOffer Section:

```
<ns2:OfferItem>
    <ns2:Eligibility>
        <ns2:OfferFlightAssociations>
            <ns2:PaxSegmentReferences>
                <ns2:PaxSegmentRefID>SEG2</ns2:PaxSegmentRefID>
            </ns2:PaxSegmentReferences>
        </ns2:OfferFlightAssociations>
        <ns2:PaxRefID>PAX1</ns2:PaxRefID>
    </ns2:Eligibility>
    <ns2:OfferItemID>SP2F-14392024692515288519-1-2</ns2:OfferItemID>
    <ns2:Service>
        <ns2:ServiceDefinitionRefID>SRV1</ns2:ServiceDefinitionRefID>
        <ns2:ServiceID>1</ns2:ServiceID>
    </ns2:Service>
```

```
    <ns2:UnitPrice>
        <ns2:BaseAmount CurCode="SGD">35.40</ns2:BaseAmount>
        <ns2:TaxSummary>
            <ns2:TotalTaxAmount
CurCode="SGD">0.00</ns2:TotalTaxAmount>
        </ns2:TaxSummary>
        <ns2:TotalAmount CurCode="SGD">35.40</ns2:TotalAmount>
    </ns2:UnitPrice>
</ns2:OfferItem>
```

In the ServiceDefinitionList Section:

```
<ns2:ServiceDefinition>
    <ns2:Desc>
        <ns2:DescText>Chargeable</ns2:DescText>
    </ns2:Desc>
    <ns2:Desc>
        <ns2:DescText>F</ns2:DescText>
        <ns2:MarkupStyleText>Service_Type</ns2:MarkupStyleText>
    </ns2:Desc>
    <ns2:Desc>
        <ns2:DescText>01</ns2:DescText>
        <ns2:MarkupStyleText>BKM</ns2:MarkupStyleText>
    </ns2:Desc>
    <ns2:Desc>
        <ns2:DescText>BG</ns2:DescText>
        <ns2:MarkupStyleText>Group</ns2:MarkupStyleText>
    </ns2:Desc>
    <ns2:Name>PRE PAID BAGGAGE</ns2:Name>
    <ns2:OwnerCode>6X</ns2:OwnerCode>
    <ns2:RFIC>C</ns2:RFIC>
    <ns2:RFISC>0AA</ns2:RFISC>
    <ns2:ServiceCode>PDBG</ns2:ServiceCode>
    <ns2:ServiceDefinitionID>SRV1</ns2:ServiceDefinitionID>
</ns2:ServiceDefinition>
```

Transition: *For the next step, the seller needs to send in input the OfferID to be priced.*

OfferPriceRQ:

The OfferPrice request allows the user to refine the price of the offer selected from AirShoppingRS for the “AIR” part and from ServiceListRS for the “Ancillary”part.
On top of OfferID selected, the seller adds in input the passenger concerned.
Example:
AIR_OfferItemRefID: SP2F-14392024692515288519-1-1
Ancillary_OfferItemRefID:SP2F-14392024692515288519-1-2

```
 <SelectedOffer>
     <OfferRefID>SP2F-14392024692515288519-1</OfferRefID>
     <OwnerCode>6X</OwnerCode>
     <SelectedOfferItem>
         <OfferItemRefID>SP2F-14392024692515288519-1-1</OfferItemRefID>
         <PaxRefID>PAX1</PaxRefID>
     </SelectedOfferItem>
     <SelectedOfferItem>
         <OfferItemRefID>SP2F-14392024692515288519-1-2</OfferItemRefID>
         <PaxRefID>PAX1</PaxRefID>
     </SelectedOfferItem>
```

OfferPriceRS:

The OfferPriceRS returns the full price details of the selected OfferID, including the base amount, the tax breakdown (for the air part) and the total amount, for both “AIR” and “Ancillary” parts.


```xml
<ns2:OfferItem>
    <ns2:Commission>
        <ns2:Amount CurCode="EUR">0.00</ns2:Amount>
    </ns2:Commission>
    <ns2:MandatoryInd>false</ns2:MandatoryInd>
    <ns2:OfferItemID>SP2F-14392024692515288519-1-2</ns2:OfferItemID>
    <ns2:PaymentTimeLimit>
        <ns2:PaymentTimeLimitDate>
            <ns2:PaymentTimeLimitDateTime>2023-09-12T04:25:00Z</ns2:PaymentTimeLimitDateTime>
        </ns2:PaymentTimeLimitDate>
    </ns2:PaymentTimeLimit>
    <ns2:Price>
        <ns2:BaseAmount CurCode="EUR">35.40</ns2:BaseAmount>
        <ns2:TaxSummary>
            <ns2:TotalTaxAmount CurCode="EUR">0.00</ns2:TotalTaxAmount>
        </ns2:TaxSummary>
        <ns2:TotalAmount CurCode="EUR">35.40</ns2:TotalAmount>
    </ns2:Price>
    <ns2:Service>
        <ns2:OfferServiceAssociation>
            <ns2:ServiceDefinitionRef>
                <ns2:OfferFlightAssociations>
                    <ns2:PaxSegmentReferences>
                        <ns2:PaxSegmentRefID>SEG2</ns2:PaxSegmentRefID>
                    </ns2:PaxSegmentReferences>
                </ns2:OfferFlightAssociations>
                <ns2:ServiceDefinitionRefID>SRV1</ns2:ServiceDefinitionRefID>
            </ns2:ServiceDefinitionRef>
        </ns2:OfferServiceAssociation>
        <ns2:PaxRefID>PAX1</ns2:PaxRefID>
        <ns2:ServiceID>1</ns2:ServiceID>
    </ns2:Service>
</ns2:OfferItem>
```


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

OderCreateRQ:

The seller must input:

- OfferItemIDs selected & priced.
- Passenger’s contact details of the passenger
- Passenger’s name & title
- Method of payment (for instant payment)


```xml
<cns:SelectedPricedOffer>
    <cns:OfferRefID>SP2F-14392024692515288519-1</cns:OfferRefID>
    <cns:OwnerCode>6X</cns:OwnerCode>
    <cns:SelectedOfferItem>
        <cns:OfferItemRefID>SP2F-14392024692515288519-1-1</cns:OfferItemRefID>
        <cns:PaxRefID>PAX1</cns:PaxRefID>
    </cns:SelectedOfferItem>
    <cns:SelectedOfferItem>
        <cns:OfferItemRefID>SP2F-14392024692515288519-1-2</cns:OfferItemRefID>
```

```
        <cns:PaxRefID>PAX1</cns:PaxRefID>
      </cns:SelectedOfferItem>
    </cns:SelectedPricedOffer>
...
<cns:PaymentProcessingDetails>
    <cns:Amount CurCode="EUR">Total amount for both AIR & Ancillary</cns:Amount>
    <cns:PaymentMethod>
        <cns:OfflineP6Xment>
            <cns:PaymentTypeCode>CA</cns:PaymentTypeCode>
        </cns:OfflineP6Xment>
    </cns:PaymentMethod>
</cns:PaymentProcessingDetails>
```

OrderViewRS:

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

- *OrderID* that has been created:
  <ns2:OrderID>6X172LO8Q9E00</ns2:OrderID>
  and contain the 2 OrderItems created:
  --- one for the Air part: 6X172LO8Q9E00_AIR-1
  --- one for the Ancillary part: 6X172LO8Q9E00_SRV7

```
<ns2:OrderItem>
    <ns2:OrderItemID>6X172LO8Q9E00_SRV7</ns2:OrderItemID>
    <ns2:OwnerCode>6X</ns2:OwnerCode>
    <ns2:Price>
        <ns2:BaseAmount CurCode="EUR">35.40</ns2:BaseAmount>
        <ns2:TaxSummary>
            <ns2:TotalTaxAmount CurCode="EUR">0</ns2:TotalTaxAmount>
        </ns2:TaxSummary>
        <ns2:TotalAmount CurCode="EUR">35.40</ns2:TotalAmount>
    </ns2:Price>
    <ns2:Service>
        <ns2:BookingRef>
            <ns2:BookingEntity>
                <ns2:Carrier>
                    <ns2:AirlineDesigCode>6X</ns2:AirlineDesigCode>
                </ns2:Carrier>
            </ns2:BookingEntity>
            <ns2:BookingID>LO8Q9E</ns2:BookingID>
        </ns2:BookingRef>
        <ns2:OrderServiceAssociation>
            <ns2:ServiceDefinitionRef>
                <ns2:OrderFlightAssociations>
                    <ns2:PaxSegmentRef>
                        <ns2:PaxSegmentRefID>SEG1</ns2:PaxSegmentRefID>
                    </ns2:PaxSegmentRef>
                </ns2:OrderFlightAssociations>
                <ns2:ServiceDefinitionRefID>PDBG_1</ns2:ServiceDefinitionRefID>
            </ns2:ServiceDefinitionRef>
        </ns2:OrderServiceAssociation>
        <ns2:PaxRefID>PAX1</ns2:PaxRefID>
        <ns2:ServiceID>SSR4</ns2:ServiceID>
        <ns2:ServiceRefID>SEG1_PAX1</ns2:ServiceRefID>
        <ns2:StatusCode>HK</ns2:StatusCode>
    </ns2:Service>
</ns2:OrderItem>
```

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


```xml
<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>2023-07-20</ns2:IssueDate>
        <ns2:IssuingCarrier>
            <ns2:AirlineDesigCode>6X</ns2:AirlineDesigCode>
        </ns2:IssuingCarrier>
    </ns2:OriginalIssueInfo>
    <ns2:PaxRefID>PAX1</ns2:PaxRefID>
    <ns2:Ticket>
        <ns2:ConnectedDocNumber>1722476924424</ns2:ConnectedDocNumber>
        <ns2:Coupon>
            <ns2:ConnectedCouponNumber>1</ns2:ConnectedCouponNumber>
            <ns2:CouponNumber>1</ns2:CouponNumber>
            <ns2:CouponStatusCode>I</ns2:CouponStatusCode>
            <ns2:RFIC>C</ns2:RFIC>
            <ns2:RFISC>0AA</ns2:RFISC>
            <ns2:ServiceRefID>SSR4</ns2:ServiceRefID>
        </ns2:Coupon>
        <ns2:ReportingTypeCode>BSP</ns2:ReportingTypeCode>
        <ns2:TicketDocTypeCode>J</ns2:TicketDocTypeCode>
        <ns2:TicketNumber>1724050025681</ns2:TicketNumber>
    </ns2:Ticket>
</ns2:TicketDocInfo>
```


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


```xml
<ns4:PaymentFunctions>
    <ns2:OrderAssociation>
        <ns2:OrderItemRefID>6X172LO8Q9E00_SRV7</ns2:OrderItemRefID>
        <ns2:OrderRefID>6X172LO8Q9E00</ns2:OrderRefID>
    </ns2:OrderAssociation>
    <ns2:PaymentProcessingSummary>
        <ns2:Amount CurCode="EUR">24.00</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>
```

```xml
<ns4:PaymentFunctions>
    <ns2:OrderAssociation>
        <ns2:OrderItemRefID>6X172LO8Q9E00_AIR-1</ns2:OrderItemRefID>
        <ns2:OrderRefID>6X172LO8Q9E00</ns2:OrderRefID>
    </ns2:OrderAssociation>
    <ns2:PaymentProcessingSummary>
        <ns2:Amount CurCode="EUR">87.77</ns2:Amount>
        <ns2:PaymentID>PAY2</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>
```

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4 Order reflected in the Airline PSS

Here below the PNR created in the Airline PSS corresponding to the OrderID:
<ns2:OrderID>6X172LO8Q9E00</ns2:OrderID>

```
RP/LON6X07ST/LON6X07ST            WS/SU   3JUL23/1259Z   LO8Q9E
1.ATORR/ATORR 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 PDBG 6X HK1/S2
12 SSR CTCE 6X HK1 NTF./DESSEE//MAIL.COM/FR
13 SSR DOCS 6X HK1 P/GBR/0123456789/GBR/08DEC86/M/13AUG29/ATORR/ATORR
14 SSR CTCE 6X HK1 AA./DESSEE//MAIL.COM
15 SSR CTCE 6X HK1 CA./DESSEE//MAIL.COM
16 SSR CTCM 6X HK1 330929464935
17 SSR CTCM 6X HK1 330929464931
18 SK NDCS 6X IN-23272325/
19 SK NDCA 6X AG-1A
20 SK NDCF 6X FLEX_STANDARD
21 SK NDOI 6X
22 SK NDCL 6X -NDCLINK
23 SK NDCO 6X 6X172LO8Q9E00
24 SK ESLI 6X HK1 ECONOMY SUPERLIGHT/S2
25 RM I AM BATMAN
26 FA PAX 172-2476924424/ET6X/EUR107.77/03JUL23/LON6X07ST/91406884/S2
27 FA PAX 172-4050025681/DT6X/EUR24.00/03JUL23/LON6X07ST/91406884/E11
28 FB PAX 0000000000 TTP/ET/RT OK ETICKET ADVISE PSGR TO BRINGPICT ID
AT APT/S2
29 FB PAX 0000000000 TTM/M1/RT OK EMD ADVISE PSGR TO BRING FOID/PICT
ID AT APT/E11
30 FE PAX NO BAG INCL/NONREF-NO CHNG/S2
31 FP PAX CASH/EUR107.77/S2
32 FV PAX *F*6X/S2
33 FZ RA23272325
34 AB  DESSEE/ROUTE LINE 1/ROUTE LINE 2/PARIS//06600/FR
35 AM ATORR ATORR MR/ROUTE LINE 1/ROUTE LINE 2/PARIS/06600//FR
```