

# OrderChange 21.3

## Implementation guide

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## Interface Overview

### Description

The OrderChangeRQ/OrderViewRS allows to add/remove/update an element to an existing order. The scope of these elements is defined in the following section.

## Current Scope

Are considered in the scope of the current Altea NDC release :

- Pending order confirmation (payment and issuance of Tickets/EMDs)
- Confirmation of OB fees re-computation

## Limitations

Here are the limitations related to the current Altea NDC release:

- Only one FOP is accepted per requestSupported flows

### Use case: Confirm pending order

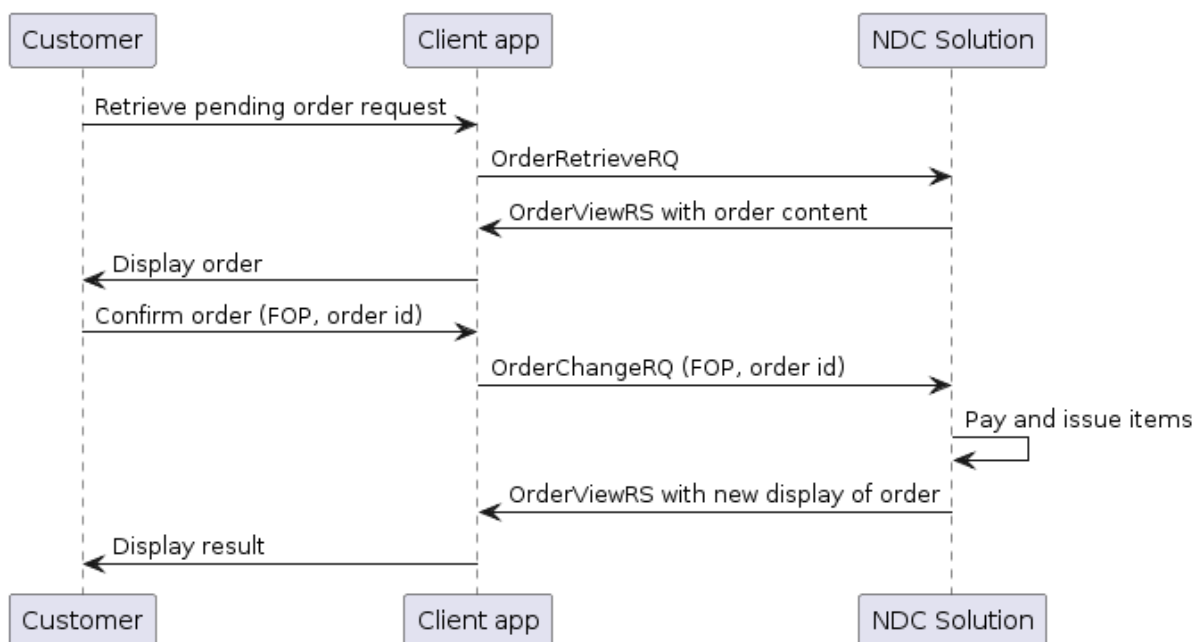
#### Conditions

Request composed of Order and PaymentFunctions parts and that's all

#### Prerequisites

- The OrderCreate request has been run successfully to book an order, without payment.

#### Flow



# Building a Query: OrderChangeRQ

This section describes the implementation of the input message based on the **NDC schema version 21.3**.

## DistributionChain

This is described in [Shared 21.3 Implementation guide](#)

## Point of sale

This part is described in this page : [Shared 21.3 Implementation guide](#)

## Request

### Order

This structure contains the passengers to be sub-divided into a child Order. The passenger and segment IDs used should be taken from the previous message (OrderViewRS).

Designation	Repetition	Status	Location	Comments
Order	1	M	/Request/Order	Uniquely identified record containing all information about the booking
OrderID	1	M	/Request/Order/OrderID	Identifier of the Order
OwnerCode	1	M	/Request/Order/OwnerCode	IATA code assigned to the carrier

### Payments

Forms of payment are listed in the PaymentInfo element. Only one form of payment is accepted per request.

Designation	Repetition	Status	Location	Comments
Payment Info	0..N	O	/Request/PaymentFunctions	
OrderAssociation	0..1	O	/Request/PaymentFunctions/OrderAssociation	
OrderRefID	1	M	/Request/PaymentFunctions/OrderAssociation/OrderRefID	
Amount	1	M	/Request/PaymentFunctions/PaymentProcessingDetails/Amount	The amount for this FOP. Mandatory for the processing. The "CurCode" attribute is used to give the currency
<b>Credit card details</b>				
Payment Method	1	M	/Request/PaymentFunctions/PaymentProcessingDetails/PaymentMethod	Selection of the payment method
Payment Card	1	O	/Request/PaymentFunctions/PaymentProcessingDetails/PaymentMethod/PaymentCard	Payment Card Method
CardBrandCode	1	O	/Request/PaymentFunctions/PaymentProcessingDetails/PaymentMethod/PaymentCard/CardBrandCode	This is the type of the payment card (CA, VI...).
CardholderAddress	1	O	/Request/PaymentFunctions/PaymentProcessingDetails/PaymentMethod/PaymentCard/CardholderAddress	
CityName	0..1	O	/Request/PaymentFunctions/PaymentProcessingDetails/PaymentMethod/PaymentCard/CardholderAddress/PostalCityName	
CountryCode	0..1	O	/Request/PaymentFunctions/PaymentProcessingDetails/PaymentMethod/PaymentCard/CardholderAddress/CountryCode	
CountrySubDivisionName	0..1	O	/Request/PaymentFunctions/PaymentProcessingDetails/PaymentMethod/PaymentCard/CardholderAddress/CountrySubDivisionName	Example: New York
PostalCode	0..1	O	/Request/PaymentFunctions/PaymentProcessingDetails/PaymentMethod/PaymentCard/CardholderAddress/PostalCode	
StreetText	0..2	O	/Request/PaymentFunctions/PaymentProcessingDetails/PaymentMethod/PaymentCard/CardholderAddress/StreetText	

Designation	Repetitions	Status	Location	Comments
CardHolderName	0..1	O	/Request/PaymentFunctions/PaymentProcessingDetails/PaymentMethod/PaymentCard/CardHolderName	
CardNumber	1	O	/Request/PaymentFunctions/PaymentProcessingDetails/PaymentMethod/PaymentCard/CardNumber	Credit card number
CardSecurityCode	1	O	/Request/PaymentFunctions/PaymentProcessingDetails/PaymentMethod/PaymentCard/CardSecurityCode	Verification digits (ex: 123)
ApprovalCode	1	O	<b>Dedicated augmentation point to be created</b>	Credit card external approval code. Should be allowed via configuration.
ExpirationDate	1	O	/Request/PaymentFunctions/PaymentProcessingDetails/PaymentMethod/PaymentCard/ExpirationDate	Credit card expiry date
<b>Cash</b>				
SettlementPlanX	0..1	O	/Request/PaymentFunctions/PaymentProcessingDetails/PaymentMethod/OfflinePayment	Used to indicate payment in cash.
PaymentTypeCode	1	M	/Request/PaymentFunctions/PaymentProcessingDetails/PaymentMethod/OfflinePayment/PaymentTypeCode	
<b>Other (freetext methods of payment)</b>				
OtherPaymentMethod	0..1	O	/Request/PaymentFunctions/PaymentProcessingDetails/PaymentMethod/OfflinePayment	Used for freetext methods of payment. The Fopcode is taken from the TypeCode tag.
RemarkText	0..1	O	/Request/PaymentFunctions/PaymentProcessingDetails/PaymentMethod/OfflinePayment/Remark/RemarkText	Freetext value for the freetext method of payment.

## Receiving a Reply: OrderViewRS

An OrderViewRS message is sent in response to the OrderChangeRQ.

Please refer to the [OrderRetrieve 21.3 Implementation guide](#) for the implementation of this message.

# Troubleshooting

Please refer to Troubleshooting chapter in OrderCreate Implementation guide: [OrderCreate 21.3 Implementation guide](#).

**376 TST EXPIRED - OVERRIDE OR DELETE AND REPRICE** - in case of deferred payment and TST has expired.

## Detailed use cases

### Use case 1 : Deferred payment : Pay and finalize a pending order

#### Use case description

The OrderChangeRQ is sent to pay an order.

#### Preconditions

The order contains an itinerary that is not paid yet.

```

<n1:IATA_OrderChangeRQ xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:n1="http://www.iata.org/IATA/2015/EASD/00/IATA_OffersAndOrdersMessage"
xmlns="http://www.iata.org/IATA/2015/EASD/00/IATA_OffersAndOrdersCommonTypes"
xsi:schemaLocation="http://www.iata.org/IATA/2015/EASD/00/IATA_OffersAndOrders
Message file:///C:/Bitbucket/ndc-grammar-generated/xml-messages-
ndc/src/main/schemas/IATA/2021.3/IATA_OrderChangeRQ.xsd">
  <n1:DistributionChain>
    <DistributionChainLink >
      <Ordinal>1</Ordinal>
      <OrgRole>Seller</OrgRole>
      <ParticipatingOrg>
        <OrgID>12345678</OrgID>
      </ParticipatingOrg>
    </DistributionChainLink>
    <DistributionChainLink>
      <Ordinal>2</Ordinal>
      <OrgRole>Carrier</OrgRole>
      <ParticipatingOrg>
        <OrgID>6X</OrgID>
      </ParticipatingOrg>
    </DistributionChainLink>
  </n1:DistributionChain>
  <n1:POS>
    <Country>
      <CountryCode>FR</CountryCode>
    </Country>
  </n1:POS>
  <n1:Request>
    <Order>
      <OrderID>6X123A1B2C300</OrderID>
      <OwnerCode>6X</OwnerCode>
    </Order>
    <PaymentFunctions>
      <OrderAssociation>
        <OrderRefID>6X123A1B2C300</OrderRefID>
      </OrderAssociation>
      <PaymentProcessingDetails>
        <Amount CurCode="EUR">100.00</Amount>
        <PaymentMethod>
          <PaymentCard>
            <CardBrandCode>CA</CardBrandCode>
            <CardholderAddress>
              <CityName>Paris</CityName>
              <CountryCode>FR</CountryCode>
              <PostalCode>75001</PostalCode>
              <StreetText>Avenue des Champs Elysées</StreetText>
            </CardholderAddress>
            <CardHolderName>Jack</CardHolderName>
            <CardNumber>4000879865438798</CardNumber>
            <CardSecurityCode>123</CardSecurityCode>
            <ExpirationDate>1228</ExpirationDate>
          </PaymentCard>
        </PaymentMethod>
      </PaymentProcessingDetails>
    </PaymentFunctions>
  </n1:Request>
</n1:IATA_OrderChangeRQ>

```



```
        </PaymentProcessingDetails>  
      </PaymentFunctions>  
    </n1:Request>  
  </n1:IATA_OrderChangeRQ>
```

Table 1 OrderChangeRQ to pay for a pending order with CC

```

<n1:IATA_OrderChangeRQ xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:n1="http://www.iata.org/IATA/2015/EASD/00/IATA_OffersAndOrdersMessage"
xmlns="http://www.iata.org/IATA/2015/EASD/00/IATA_OffersAndOrdersCommonTypes"
xsi:schemaLocation="http://www.iata.org/IATA/2015/EASD/00/IATA_OffersAndOrders
Message file:///C:/Bitbucket/ndc-grammar-generated/xml-messages-
ndc/src/main/schemas/IATA/2021.3/IATA_OrderChangeRQ.xsd">
  <n1:DistributionChain>
    <DistributionChainLink >
      <Ordinal>1</Ordinal>
      <OrgRole>Seller</OrgRole>
      <ParticipatingOrg>
        <OrgID>12345678</OrgID>
      </ParticipatingOrg>
    </DistributionChainLink>
    <DistributionChainLink>
      <Ordinal>2</Ordinal>
      <OrgRole>Carrier</OrgRole>
      <ParticipatingOrg>
        <OrgID>6X</OrgID>
      </ParticipatingOrg>
    </DistributionChainLink>
  </n1:DistributionChain>
  <n1:POS>
    <Country>
      <CountryCode>FR</CountryCode>
    </Country>
  </n1:POS>
  <n1:Request>
    <Order>
      <OrderID>6X123A1B2C300</OrderID>
      <OwnerCode>6X</OwnerCode>
    </Order>
    <PaymentFunctions>
      <OrderAssociation>
        <OrderRefID>6X123A1B2C300</OrderRefID>
      </OrderAssociation>
      <PaymentProcessingDetails>
        <Amount CurCode="EUR">100.00</Amount>
        <PaymentMethod>
          <OfflinePayment>
            <PaymentTypeCode>CA</PaymentTypeCode>
          </OfflinePayment>
        </PaymentMethod>
      </PaymentProcessingDetails>
    </PaymentFunctions>
  </n1:Request>
</n1:IATA_OrderChangeRQ>

```

Table 2 OrderChangeRQ to pay for a pending order with cash

## Glossary

**CC** - Credit Card

**FF** - Frequent Flyer

**FOP** - Form Of Payment

**FOID** - Form Of Identification

**FQTV** - Frequent flyer code for accruing miles

**MCO** - Miscellaneous Charge Order

**PNR** - Passenger Name Record

**PTC** - Passenger Type Code

**TST** - Transitional Stored Ticket

**RFIC** - Reason For Issuance Code

**RFISC** - Reason for Issuance Sub-Code

**SSR** - Special Service Request

**SVC** - Manual Auxiliary Segment

**TSM** - Transitional Stored MCO

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