

# Implementation Forum 2020

## — — AggSky Introduction

TravelSky

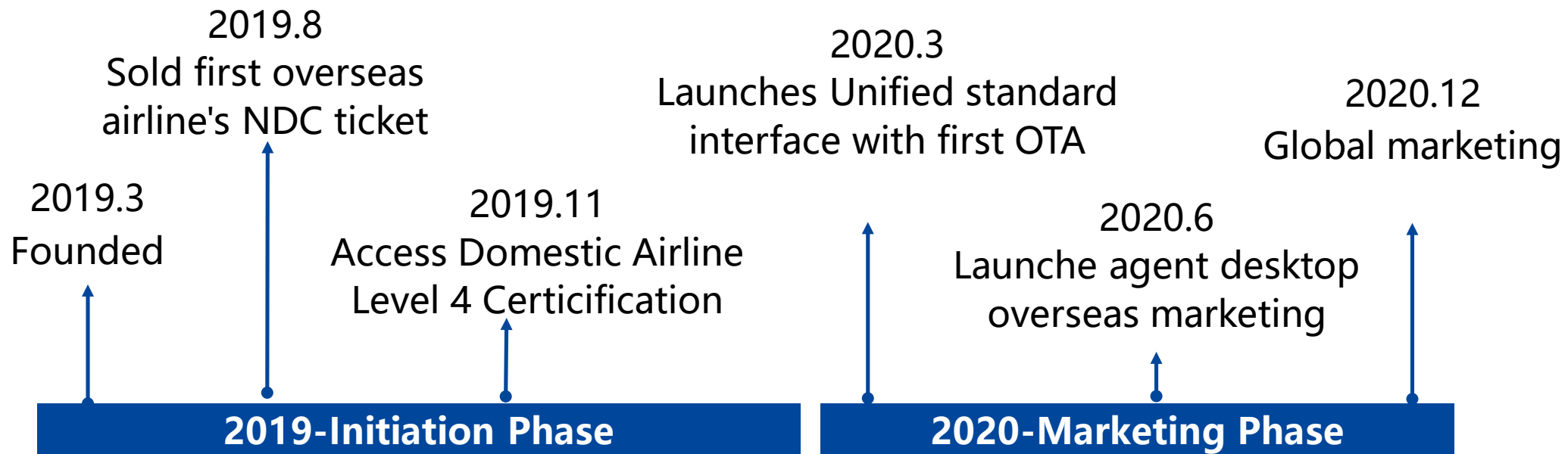
Xie Jia



# Overview

AggSky is:

- NDC aggregator Platform
- Source:NDC/GDS/Non Air
- Distributed to various marketing channels



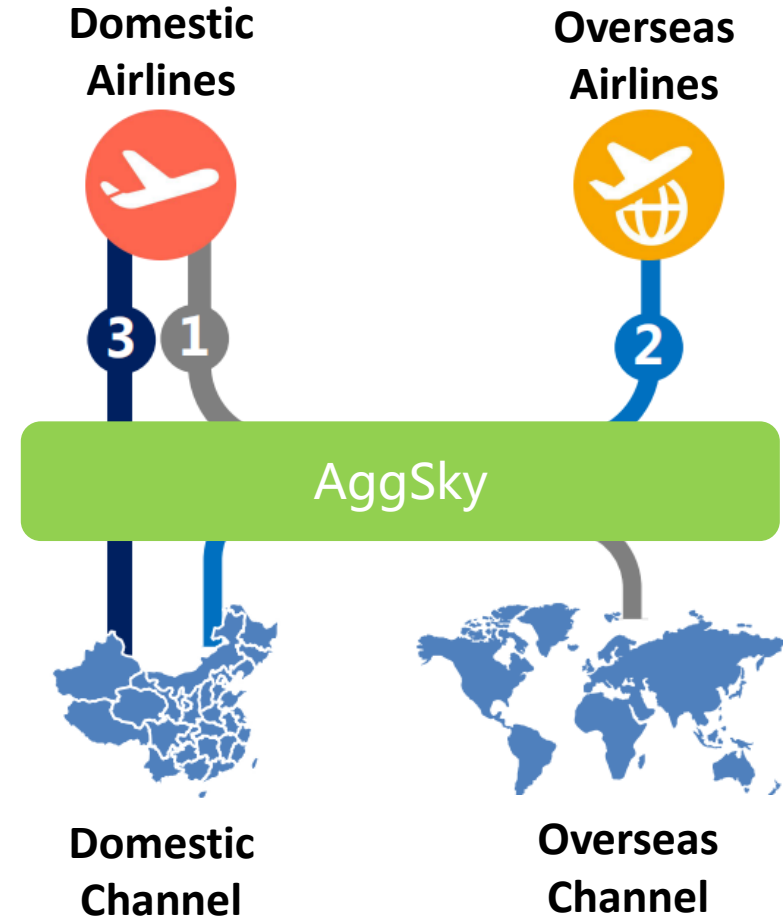
# AggSky Implementation

- **Latest schema version implemented**  
18.2
- **Servicing messages implemented**  
AirShopping  
OfferPrice  
OrderCreateOrderRetrieve  
OrderChange  
OrderReshop  
OrderCancel  
ServiceList  
SeatAvailability
- **Roles**  
Aggregator
- **Ancillaries supported**  
All
- **Payment method supported**  
Cash&CC
- **1 other feature you would like to highlight**  
BOP
- **1-2 implementation successes**  
10+
- **1-2 big implementation concerns**  
Ticket Refund  
Ancillaries Refund

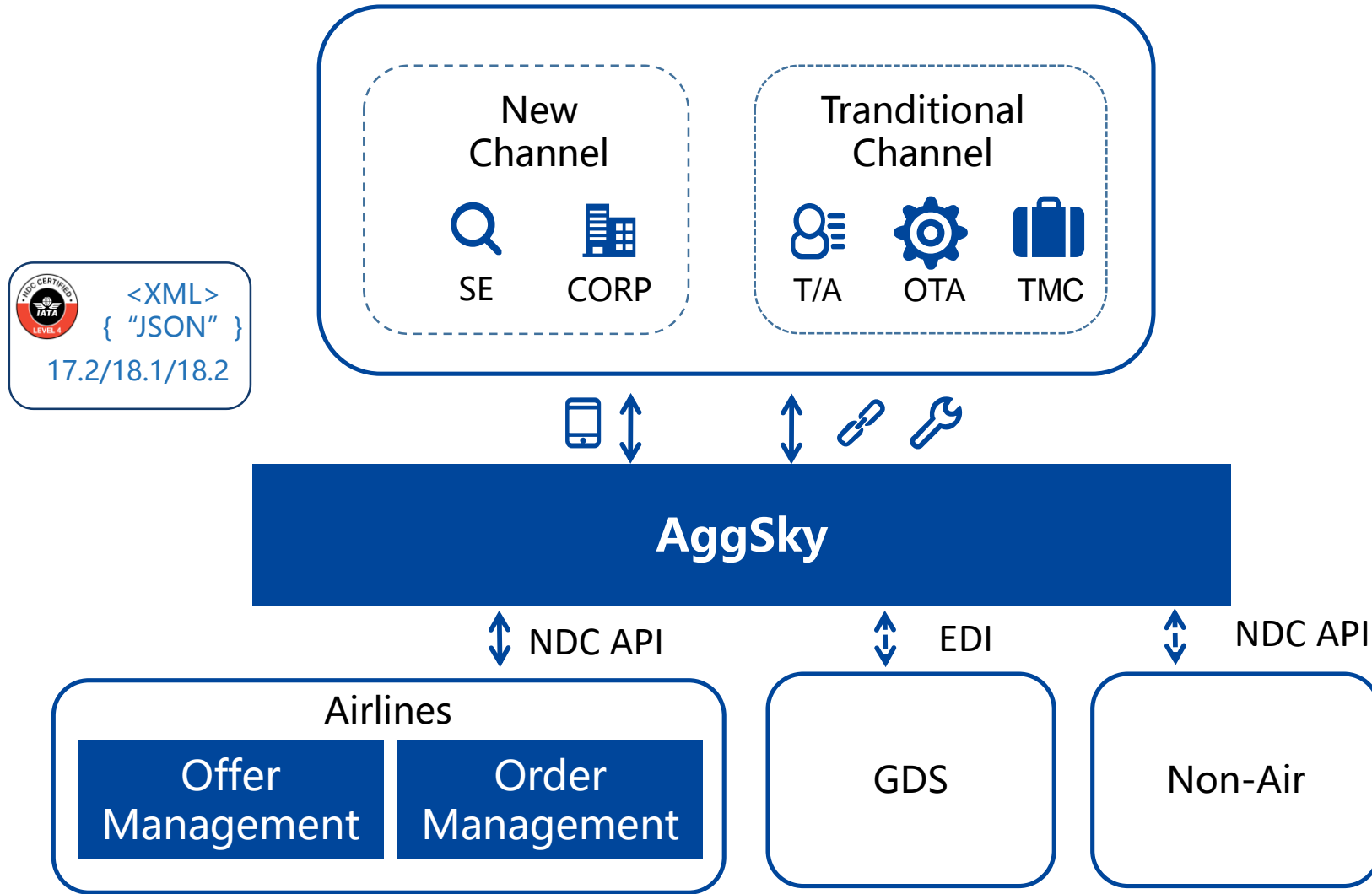


# AggSky Advantage

- 1** Travelsky's abundant products with business accumulation
- 2** Abundant distributions channels of domestic and overseas
- 3** Integrated with GDS's resources
- 4** Integrated with Travelsky's front-end and backend products



# Road Map



## Road Map

- 2020.3:
  - Unified standard interface
- 2020.6:
  - Implementaion on TravelSky TMC Desktop
- 2020.12:
  - Implementation on TravelSky General Portal
  - Access to search engine



# Implementation on TMC Desktop

The screenshot displays the Bluesky TMC Desktop interface. At the top left is the Bluesky logo with the text '差旅桌面'. The user is logged in as '你好, AGGSKY'. The main search area includes fields for origin (London), destination (Helsinki), and dates (2020-03-22 and 2020-03-29). A dropdown menu for airlines is open, showing options like AA, AY, QF, SQ, BA, UA, and IB. Below the search area, there are filters for 'NDC航班查询结果' and '自由组合: 选择去程 -> 选择返程'. The results table shows flight options for Finnair AY1336, British Airways BA0794, and Finnair AY5904 (operated by BA). Each result includes flight details, NDC codes, and prices.

航空公司	航班号	出发地	出发时间	到达地	到达时间	飞行时长	NDC	品牌/舱位	价格 (含税)	操作
芬兰航空	AY1336	伦敦	16:10	赫尔辛基	21:10	3h0m	LIGHT10	VALUE10	CNY 868.00	选定
芬兰航空	AY1336	伦敦	16:10	赫尔辛基	21:10	3h0m	PRO20	VALUE10	CNY 1268.00	选定
芬兰航空	AY1336	伦敦	16:10	赫尔辛基	21:10	3h0m	PRO20	PRO20	CNY 6780.00	选定
英国航空	BA0794	伦敦	07:55	赫尔辛基	13:00	3h5m	Euro Traveller	Euro Traveller	CNY 1036.89	选定
芬兰航空	AY5904	伦敦	07:55	赫尔辛基	13:00	3h5m	LIGHT10	VALUE10	CNY 3824.00	选定
芬兰航空	AY5904	伦敦	07:55	赫尔辛基	13:00	3h5m	PRO20	VALUE10	CNY 4024.00	选定
芬兰航空	AY5904	伦敦	07:55	赫尔辛基	13:00	3h5m	PRO20	PRO20	CNY 6780.00	选定

Single airline or multi-airline search

NDC message's uniform display

brand fare



# Implementation on TMC Desktop

行程信息						
去程	AY1332	伦敦希斯罗机场 (3) - 赫尔辛基万塔机场 (2)	出发: 3月22日 10:20	到达: 3月22日 15:15	直飞	VALUE10
回程	AY1333	赫尔辛基万塔机场 (2) - 伦敦希斯罗机场 (3)	出发: 3月29日 11:25	到达: 3月29日 12:35	直飞	VALUE10
<a href="#">航班详情</a>						已选航班 CNY <b>1268.00</b>

品牌运价详情	
...	
附加服务	

**行李**

单独购买

**LHR-HEL**

PRE PAID BAGGAGE CNY195  EXCESS PIECE SPECIAL CHARGE CNY312  BICYCLE CNY429  PET IN CABIN CNY312  PET IN HOLD CNY585

**HEL-LHR**

PRE PAID BAGGAGE CNY293  EXCESS PIECE SPECIAL CHARGE CNY468  BICYCLE CNY644  PET IN CABIN CNY312  PET IN HOLD CNY585

组合购买

**LHR-HEL HEL-LHR**

PRE PAID BAGGAGE CNY488  EXCESS PIECE SPECIAL CHARGE CNY780  BICYCLE CNY1073  PET IN CABIN CNY624  PET IN HOLD CNY1170

**机上服务**

单独购买

**HEL-LHR**

BROWSING INTERNET OVER 2H CNY55  STREAMING INTERNET OVER 2H CNY101  FETA AND SPINACH SALAD CNY55

COLD SMOKED SALMON RYE BREAD CNY55  SMOKED SALMON PREMIUM PLATTER CNY94  SMOKED REINDEER FLATBREAD CNY63

RUSTIC BEEF PASTRAMI BAGUETTE CNY63  CHICKEN CAESAR BAGEL CNY55  OAT ROLL WITH CHEESE CNY47

**LHR-HEL**

FETA AND SPINACH SALAD CNY55  COLD SMOKED SALMON RYE BREAD CNY55  SMOKED SALMON PREMIUM PLATTER CNY94

SMOKED REINDEER FLATBREAD CNY63  RUSTIC BEEF PASTRAMI BAGUETTE CNY63  CHICKEN CAESAR BAGEL CNY55  OAT ROLL WITH CHEESE CNY47

Ticket and ancillary integrated sale

Combined sale according to itinerary



# Implementation on TMC Desktop

**座位信息**

A B C D E F

9 10 11 12 13 14 15

已订出座位 同行旅客座位 可预订座位

不可订座位 当前选择座位

LA 盥洗室 G 厨房

Sale Ancillary after issuance

行程信息 旅客和机票信息 附加服务 **选座**

**已购买座位**

旅客姓名	航段	已选座位	座位价格
XIE/JIA	AY1332 LHR-HEL	64J	CNY 125
XIE/JIA	AY1333 HEL-LHR	9A	CNY 125





# Implementation in Payment and Settlement

## Route One: Dovepay's BSP solution

Provide solutions to overseas airline who need to sell NDC ticket through BSP in Chinese market.

## Participants

- AggSky
- Agent
- DovePay
- IATA
- Airline

```
<Request>
  <Order>
    <OwnerCode>QF</OwnerCode>
    <OrderID>QF_ORD_18926aefb68d</OrderID>
  </Order>
  <PaymentInfo>
    <Amount>CupCode "CNY" 24440</Amount>
    <TypeCode>CA</TypeCode>
  </PaymentInfo>
</Request>
```

## Route Two: NDC-Link Direct Sale Solution

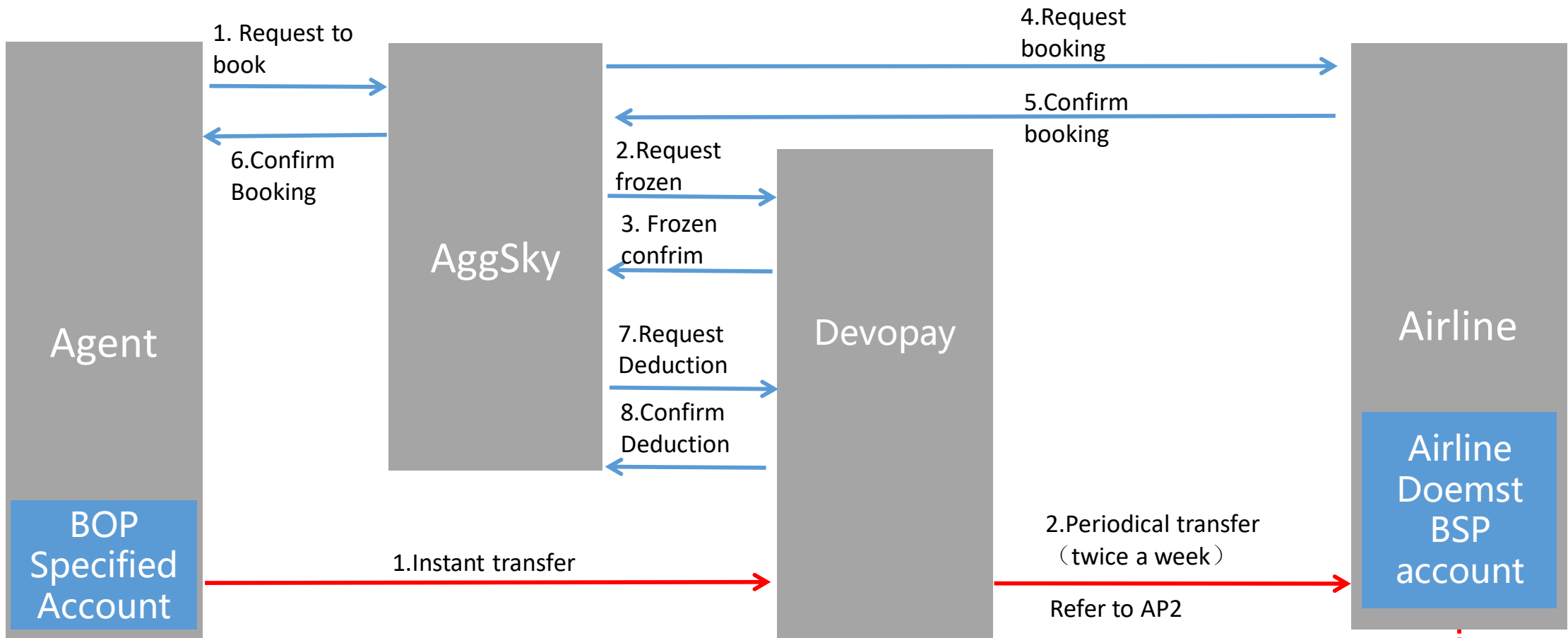
For airlines rely on BSP method, NDC-Link enable airlines' direct sale with transition BSP method.

## Route Three: Card Payment Direct Sale solution

Airline settling with agencies with credit or debit card



# Implementation in Payment and Settlement



- Information flow
- Capital flow
- Optional capital flow

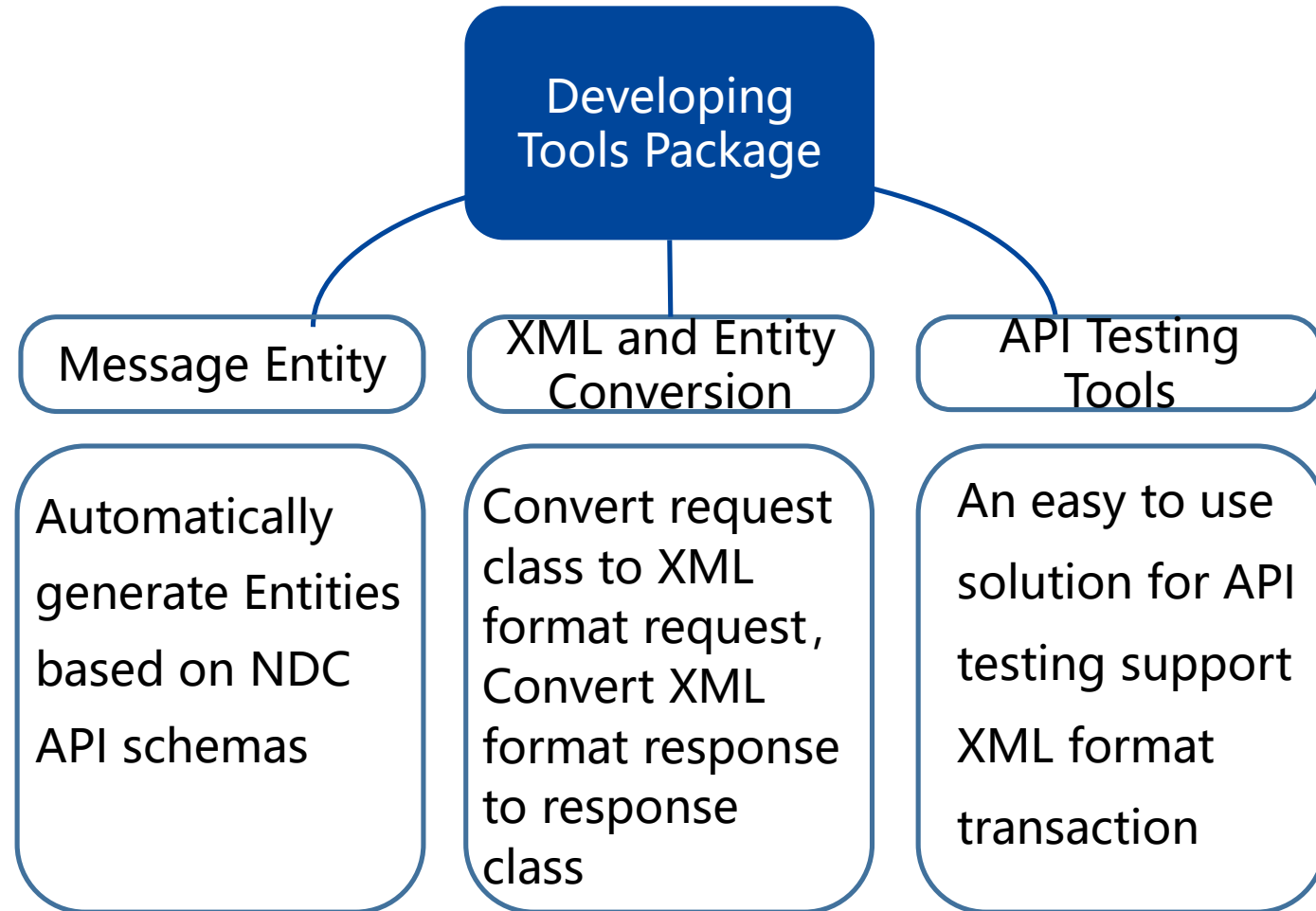
Airline overseas BSP account

3. cross-border capital flow  
ICCS service and etc.



# Development Kit

- reduce development work
- reduce bug rate
- improve development efficiency



# Questions

- For Airline: Fully support refund and reissue of of ancillaries
- For Airline: Enable brand fare,ticket refund policy and ancillaries information returned in all airline returned XMLs, not merely in offerPriceRS.
- For IATA: Could have more detail guide or uniform the use of NDC Standards.



# Implementation Difficulties

## Unstructured Data

```
<BaggageAllowance>
  <BaggageAllowanceID>_BAGA_8a0d0b3160bac2a63fcc6bfa
  <DescText>CHECKED BAGGAGE UP TO 23KGS</DescText>
  <DescText>MUSICAL INSTRUMENT MEDIUM 23KG</DescText>
  <DescText>SKI OR SNOWBOARD UP TO 23KG</DescText>
  <DescText>SPORT EQP MEDIUM UP TO 23KG</DescText>
  <PieceAllowance>
    <ApplicablePartyText>Traveler</ApplicablePartyText>
    <TotalQty>1</TotalQty>
  </PieceAllowance>
  <TypeCode>CheckedBag</TypeCode>
</BaggageAllowance>
```

## Ambiguous attributes' standard

<OfferExpiration DateTime="2020-03-30T07:42:19Z"></OfferExpiration>
<OfferExpiration DateTime="2020-04-14T03:07:11Z"></OfferExpiration>
<OfferExpiration DateTime="2020-04-14T03:18:25Z"></OfferExpiration>
<ns2:OfferExpirationDateTime>2020-04-14T01:52:09Z</ns2:OfferExpirationDateTime>
<ns2:OfferExpirationDateTime>2020-04-14T01:52:09Z</ns2:OfferExpirationDateTime>
<OfferExpirationDateTime>2020-02-20T09:24:56.303Z</OfferExpirationDateTime>
<OfferExpirationDateTime>2020-01-19T09:02:13.731Z</OfferExpirationDateTime>
<OfferExpirationDateTime>2020-05-13T15:03:51.747+08:00</OfferExpirationDateTime>
<OfferExpiration DateTime="2019-11-21T04:55:00"/>



# Additional Questions

- Regarding to Payment& Billings, what is IATA's standard and guidance and latest progress?
- What would be the most significant feature of the new version, what should we concern for when updating?



感谢观看！ THANK YOU!

