Retailing Implementation Forum

29 – 30 September 2022

9:30 - 17:30

9:00 - 17:00



Competition Law Guidelines

This meeting is being conducted in compliance with the Provisions for the Conduct of the IATA Traffic Conferences. Pursuant thereto, this meeting will not discuss or take action to develop fares or charges, nor will it discuss or take action on remuneration levels of any intermediaries engaged in the sale of passenger air transportation. The meeting also has no authority to discuss or reach agreement on the allocation of markets, the division or sharing of traffic or revenues, or the number of flights or capacity to be offered in any market. Delegates are cautioned that any discussion regarding such matters, or concerning any other competitively sensitive topics outside the scope of the agenda, either on the floor or off, is strictly prohibited.

The foregoing applies equally to email discussions, instant messaging and social media discussions whether directed to announced participants or other parties not present in the meeting. Participants are reminded that live streaming of this meeting to parties not present in person is not permitted except as indicated by and with the express permission and knowledge of the Chairperson and IATA and only in the event that specific participation on a given item from a party not present in person is required. Unauthorized recording of the meeting is prohibited.

Introductions – Round the Room

Name Company Live Status

- Airlines
- Sellers
- System Providers sellers
- System Providers airlines
- Others
- IATA



Rules of Engagement

- 1. Competition Law Guidelines come first
- 2. Keep the customer experience in mind
- 3. Respect each other's perspectives and experience
 - Appreciate that there will be different perspectives on the same implementation topic
- 4. Seek to clarify challenges
- Be solutions minded
- 6. Be open to mindset shifts
- 7. Be on the lookout for low hanging fruit



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Agenda

Face to Face Forum Agenda

[IATA and industry stakeholders present, followed by breakout workshops]

Day 1: November 29, 2022, 9:00am - 5:30pm CET

~ 9:00 - 12:00 ~

- A playback of the top implementation variances from 7 implementers (aggregators, OBTs and sellers) and how to solve them
 - IATA and implementers present
 - Interactive table breakouts

~ Lunch 12:00 - 1:30pm ~

- 2. Normalization examples being implemented by airline partners,
 - The impact of normalization on achieving value participants share their observations
 - Perspectives on how a schema convergence release could help achieve consistent implementations
- 3. How to achieve industry consistency your takeaways
- 4. The pathway towards consistent implementations of the standard in a retailing context

~ End of Day 1, 5:30pm ~

Day 2: November 30, 2022, 9:00am - 5:00pm CET

~ 9:00 - 12:00 ~

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- 2. The best-case scenario of servicing in NDC with legacy progresses value chain discussion
- 3. Addressing Servicing where are the quick wins and how to solve them

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- 5. Discussion on best practices to get the most from your NDC implementation?
- **6.** Pulling it together
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Variances – setting the scene



Variances – setting the scene

 Aggregators, OBTs speak of the inefficiencies, lack of standardization of implementations across different airlines.

TMCs ask for "Standardization to minimize variances in the implementation of NDC"





Main Reasons Behind Variations

- Flexibility in standards
- Availability of documentation
- Legacy processes
- Retrofitting + workarounds (adopting features from newer schemas)



Setting the scene



Are all variances bad?

When is a variance **good**?

When is a variance **not good**?



9 categories of variances received from the industry

1/ Walkthrough of examples

Workshop

2/ Table deep dive

Output: list of items in categories for open discussion during wrap-up



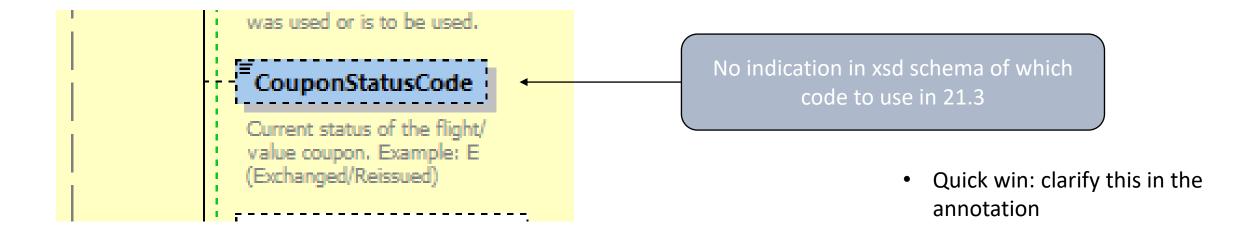
Variances shared with IATA

16	Payment	Payment Card Fees	Inconsistent reporting on taxes vs fees, impacting BO processes	I
23	Reference Data	Coupon Status	Some airlines not adhering to code set 4405	ID
43	Servicing - Voluntary	Residual Values	Inconsistencies in implementations of credit and residual values at pricing time for servicing flows	I
48	Servicing - Voluntary	Exchange	Flights limited to 3 changes	I
57	Setup	Corporate Fares	Lack of corporate identification	D
69	Shopping	Offers	Offers constructed per bound per itinerary	D
71	Shopping	Cabin Class	Variances in location of cabin details in messages	Q
73	Shopping	Price Class	Fare brands not always provided	Q
84	Shopping	Reference Data	The use of ServiceList is inconsistent (e.g. using SSR's for free services)	IDQ

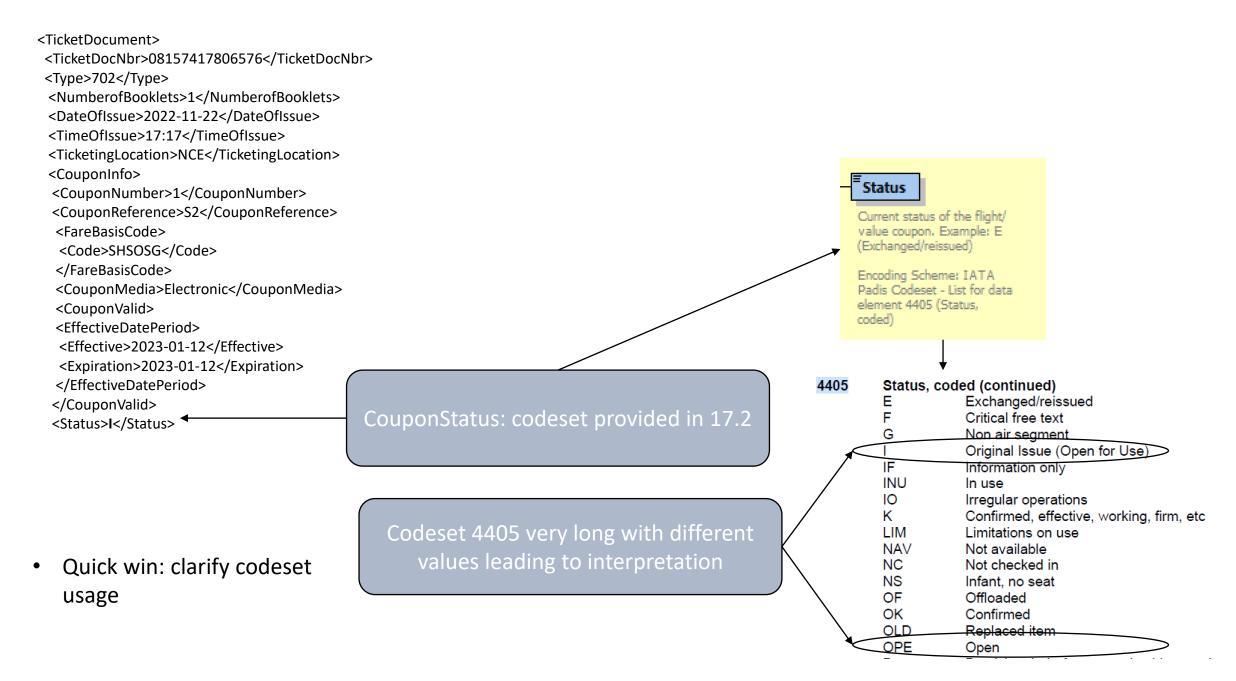


Industry Example shared at Implementation Forum

Coupon status is important as this is reported to seller's mid back office and is important for BSP reconciliation



Examples of CouponStatus in 17.2 for airline



Variances – preparing for action

Categories

- Low Hanging Fruit: obvious and simple to implement – can be developed in <1month if resources were assigned
- 2. Not throw away code implementation is version agnostic
- Level of complexity in coding by intermediary mark Low Medium High
- 4. Clear, obvious e.g. align to reference documentation (code, imp guide)
- 5. Difficult to categorise the variance

Variance deep dive

Table breakout - 60 min

Output: Prepare for action, categorise the variances



Variances – preparing for action

Categories

- Low Hanging Fruit: obvious and simple to implement – can be developed in <1month if resources were assigned
- 2. Not throw away code implementation is version agnostic
- Level of complexity in coding by intermediary mark Low Medium High
- 4. Clear, obvious e.g. align to reference documentation (code, imp guide)
- 5. Difficult to categorise the variance

Table deep dive - 60min

Output: Assess and categorise the variances

- Refer to the variances assigned to your table
- Discuss & assign a category or categories
- Designate a scribe and write on flipcharts
- You may skip ones you don't understand



15min Break!

Restart at 11:30



Variances – preparing for action

Categories

- Low Hanging Fruit: obvious and simple to implement – can be developed in <1month if resources were assigned
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PLAYBACK



Lunch!

Restart 1:15pm



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Normalization examples being implemented by airline partners

Normalization of

- Data
- Flows
- Display

Is there another perspective?

Listen for perspectives from sellers and intermediaries:

- What capability/feature did you not implement because of the variance?
- Which feature do you support but with a lot of time and effort?







Agenda

1 Introduction on value store

Diverse implementations

Amadeus proposition

Q&A

Definition

A "Value Store" is a value held by the airline on behalf of a payer due to a previous transaction or transactions.

Value store can be requested while sellers performs:

- A change to an order item resulting in residual value
- A cancellation to an order item resulting in a residual value

Once the value store is created, it can subsequently be re-used for a new purchase

Reference to IATA implementation guide:

https://guides.developer.iata.org/v213/docs/en/conord06-value-store?highlight=value%20store

Usage as per standard

There are 2 methods to hold a value using the standard*

- Storing the value as an OrderItem (thus can only be used against a future modification of the same order unless a voucher is issued)
- Storing the value on an Open Accountable Document

The value store can be*

- Of fixed value such as on a value store OrderItem
- Of variable value such as a portion of a ticket or an EMD that is « unused »

 $^{^*\} https://guides.developer.iata.org/v213/docs/en/conord06-value-store?highlight=value\%20 store$



Implementation by airline 1 using 17.2

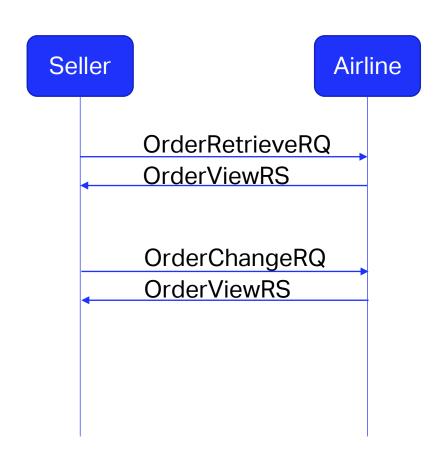
Value Store creation

Display the Order

- OrderRetrieveRQ
- OrderRetrieveRS

Cancel the Order

- OrderChangeRQ with specific "retain" option in OrderChangeRQ/Query/OrderChangeMetadata/Oth er/OtherMetadata/RuleMetadatas/RuleMetadata/Va lues/Value/Instruction
- OrderViewRS with no OrderItems (grammar break) but with documents in TicketDocInfos nodes with coupons "open"



Implementation by airline 1 using 17.2

Value Store usage

Create new unpaid Order

Create new offer using documents

- Passed in AugmentationPoint/UseDocument/TicketDocNbr
- Empty Query/Reshop/OrderServicing
- Offer created with ReshopDifferential node provide differential between document and new itinerary created

Pay for the new offer

- OrderChangeRQ (OfferID, new OrderID)
- OrderViewRS



Implementation by airline 2 using 17.2

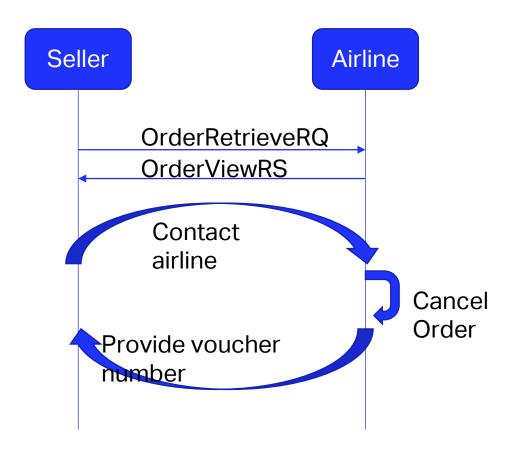
Value Store creation

Display the Order

- OrderRetrieveRQ
- OrderRetrieveRS

Cancel the Order

- Offline call to airline help desk that will issue a voucher.
- Ability to check the value of the voucher directly on the airline.com



Implementation by airline 2 using 17.2

Value Store usage

Create new unpaid Order

Pay for new order using voucher

 Passed in Payments/Payment/Method/Voucher/Number



Implementation by airline 3 using 17.2

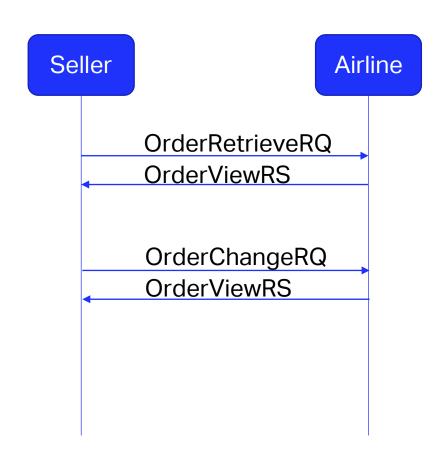
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Implementation by airline 3 using 17.2

Value Store usage

Shop for new itinerary

Price offer with documents in input

- Passed in OfferPriceRQ/InExchangeForTicket/TicketNu mbers/TicketNumber
- Offer returned provides in Total Price the balance amount between the new itinerary and the old document

Create new Order based on this new offer and pay for it



Implementation by airline 4 using 17.2

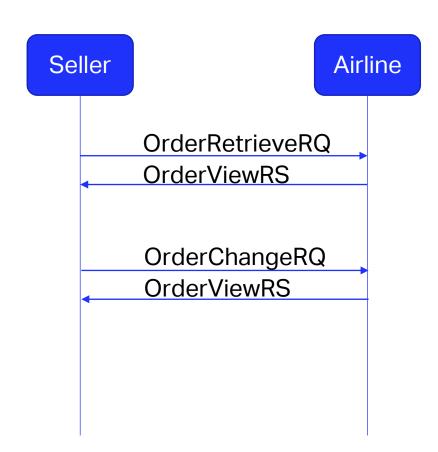
Value Store creation

Display the Order

- OrderRetrieveRQ
- OrderRetrieveRS

Cancel the Order

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Implementation by airline 4 using 17.2

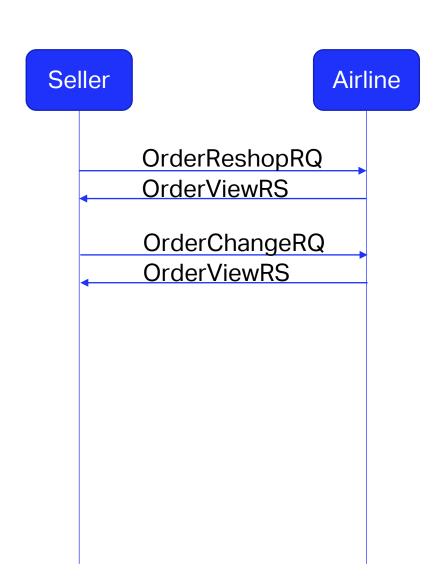
Value Store usage

Reshop for new itinerary using initial order

Standard Reshop offer returned

Pay for the new offer

- OrderChangeRQ (OfferID, new OrderID)
- OrderViewRS



Summary of the different approaches

Impacts on integration of airlines' content

	Airline 1	Airline 2	Airline 3	Airline 4
Hold value type	In accountable docs	In voucher	In accountable docs	In accountable docs
Value store type	Variable value	Fixed value	Variable value	Variable value
Re-usage in same OrderID	No	No	No	Yes
Compliancy with standard as per 21.3	No (schema breaks)	Yes	No (schema breaks & amount in OfferPriceRS)	No (schema breaks)
Complexity of integration	Schema breaks, accounting impacts		Schema breaks and wrong amounts in OfferPrice, accounting impacts	Schema breaks
Complexity of normalization for Amadeus/sellers	Requires adaptation of reshop step	Requires seller manual action to call center	Flow not compatible with any standard	

Colour code



Medium

High

Very high

Discussion

Perspectives on addressing these value store variances





Value Store propositions

Keep 2 options as per standard for Value Store and implement them as normalized features

- Allow Fixed value via vouchers (or accountable document or even OrderID/OrderItemID)
- Allow variable value and make it order based compatible (not only using accountable documents)

Value Store propositions

In blue, points to be further discussed

Holding value (fully order based)

Trigger

- OrderReshopRQ: respend indicator
- OrderReshopRS:
 - deleteOfferItems: status?, serviceItems cancelled, May require new indicator stating value not committed

Commitment

- OrderChangeRQ
- OrderViewRS:
 - Initial OrderItem: cancelled
 - <new Price>? Should be set to 0?
 - <Price differential/differentialTypeCode= REUSABLE>

Redeem:

- Through initial Order
- New OrderReshopRQ (deleteOrderItem)
- OrderReshopRS with addOfferItems

Fixed value

_Trigger

- OrderReshopRQ: respend indicator
- OrderReshopRS:
 - deleteOfferItems: cancelled, serviceItems cancelled
 - addOfferItems: voucher value

Commitment

- OrderChangeRQ: addOfferItems
- OrderViewRS:
 - New OrderItem
 - Price = voucher value
 - Voucher number & conditions in new node?

Redeem:

- Through initial Order or new Order
- Part of <PaymentMethod/Voucher>

4.

Q&A





Normalization Breakout (15min)

What examples of normalization have you seen? Data, Flow, Display Was it a benefit or a risk to customer experience?

	Benefit to customer experience	Risk to positive cust. experience	Other
Data			
Flow			
Display			



Normalization - Wrapping Up

Playback

Benefit and risks of normalization

The way forward?

List of variances
Normalization
What next and who



15min Break!



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Your Takeaways

Achieving implementation consistency at industry level



Where should the challenge be addressed by the value chain?

Setup

Alignment phase ... Including

- Partners, System Providers
- Current capabilities
- Known limitations
- Roadmap
- ...

Implementation

Technical and support aspects

- Implementation guides
- Issue management
- ..

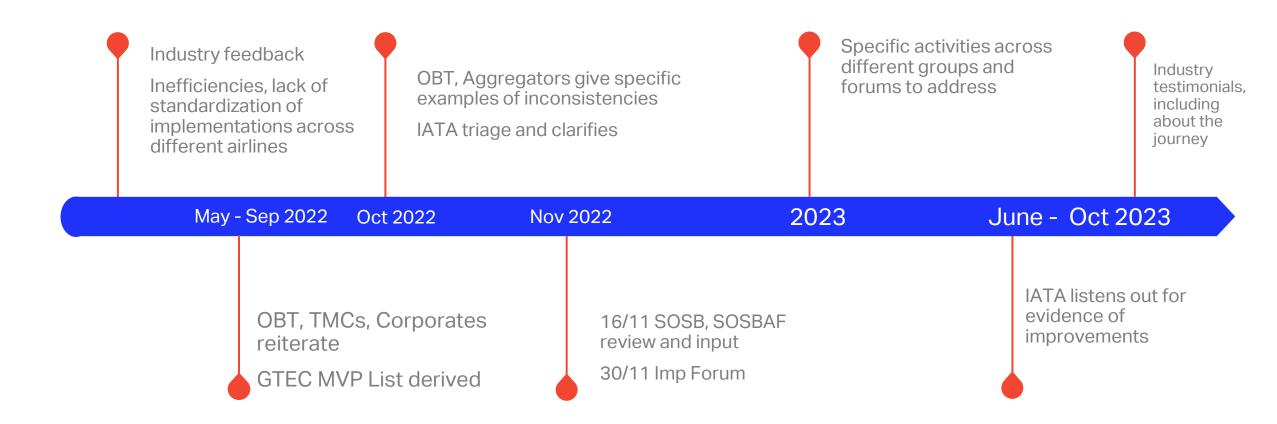
Change Management

Review

- Processes, organization
- Gap analysis
- Reflections, lessons learnt



Towards consistent implementations





End of Day 1!



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+ Day 1 recap and a quick one on payment variance

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Day 1 Variances Recap

- Reviewed and categorised ~50% of variance list
 - 3 5 quick wins or low hanging fruit
 - Context for variance review should be 21.3 improvements (majority planning for 21.3)
- Most impactful next steps to solve variances
 - 1/Worked examples, 2/Clarify handling of optional elements, 3/Industry feedback loop
- List of 93 variances next steps
 - Send <u>digital</u>:-) copy of your table's categorisation
 - Same tables review remaining items and clarify and categorize (low hanging, etc.)
 - Cross check items vs. working group backlog to be documented (e.g. value store)



Payment variances – an extract

Variance	Input
1. OB fees incorrectly recorded as taxes (making customer invoicing impossible)	OB fees are how ATPCo record airline (card) surcharge. In 21.3 a payment surcharge is identified as a separate info
13. Not getting soft- decline errors on3DSecure transactions	There is a catalogue of <u>payment errors</u> , including one saying 'declined, authentication required'. @ Airlines, are you sending this back to the seller? https://guides.developer.iata.org/v213/docs/payment-errors
18. 3DSecure mandated even for corporate transactions	Airline needs to take into account the context of the transaction to know how to treat the payment - way client and seller engage and also the nature of card
19. CVV mandated for corporate cards	



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Servicing – setting the scene

- Servicing in our discussions refer to the change to a customer's Order, triggered by the customer or by the airline.
- The NDC schema supports servicing capability between the airline and its seller partner.
- There are no known <u>major</u> gaps in the schema to prevent streamlined and automated servicing.

- The Implementation Guide explains the concepts and workflows to implementing servicing using the NDC schemas (21.3 and beyond)
- The guide is evolving to cover more servicing capabilities



Constraints in delivering servicing (examples)

- Resources people and funds
- Capability of intermediaries some servicing supported
- Timing of implementations airlines at different stages
- Retrofitting + workarounds linked to legacy and 17.2 limitations
- Roadmaps not always transparent what can (and can't) be done
- Legacy processes the synchronization reality



Servicing – setting the scene

Full end to end servicing capabilities in the API must be deployed by the airline and their seller partners

- supported by other parties that may be a part of the servicing flow
 - aggregators
 - mid/back-office providers
 - delivery service providers

Standard vs.
Implementation (ARM index)



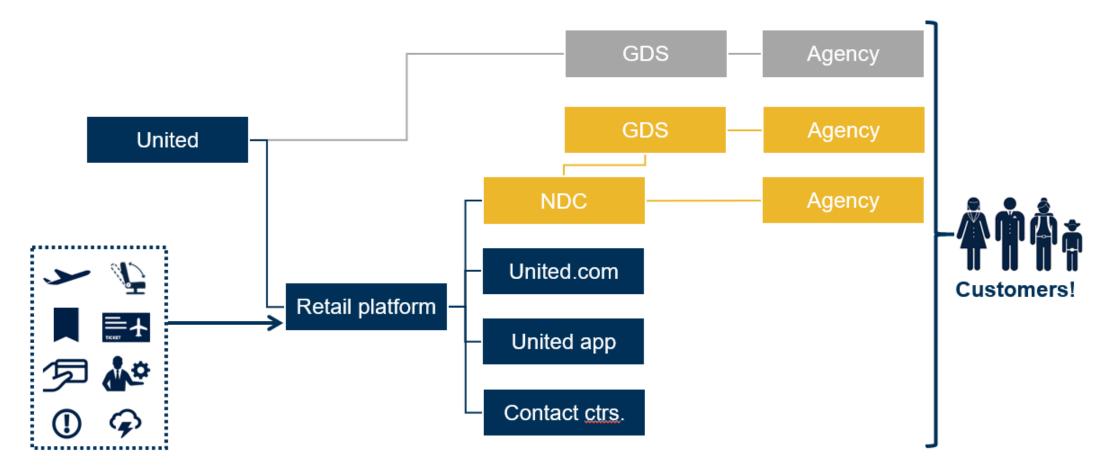
Servicing via United NDC

Arjun Gupta November, 2022





NDC leverages United direct channel systems & servicing



Legacy distribution via GDSs will be available for foreseeable future as well



Powerful servicing capabilities focus on agency enablement via NDC



Flight & Date Changes

Changes to wholly unused & partially flown orders

Origin and destination changes supported



Customer initiated void, cancelation & refund



Unused Tickets

Ability to cancel non-refundable ticket for future use

Unused ticket in Booking flow (OfferPrice)



Fare Rules & Penalties

Structured fare penalties in booking flow Full fare rules provided in FareRulesRQ/RS



Omnichannel

Orders in NDC are serviceable by direct channels & always in sync



Waiver Automation

Waivers are automatically applied for change/cancel - No waiver codes needed

UA policies like Same Day Change applied



Notifications

Involuntary Change Notifications

Customer initiated & operational changes are provided



SSRs

Focus on accessibility with medical & disability SSRs supported



Deep Dive into Waivers



Today's process is manual and multi-step



United leverages our direct channel technology to automate waivers



Changing an existing process was a challenge, but the process drove interest



Agent can now save time with the automated process, and customers can self serve a complex process



Waivers are automatically applied for change/cancel – No waiver codes needed

UA policies like Same Day Change applied



Deep Dive into Omnichannel



Today United is unable to service many bookings made on indirect channels



NDC Orders are created using the same ticketing services as United direct channels



Omnichannel

Orders in NDC are serviceable by direct channels & always in sync



NDC had to rebuild many established capabilities like ARC/ BSP settlement



NDC bookings are serviceable on direct channels. Direct channel bookings can be serviced in NDC



Discussion

What servicing scenarios are working well?

- automated processes (vs. call centre)
- streamlined customer handling via the API
- seller handling disruption scenarios

What are the live examples of servicing in your implementation?



11min Break!

Restart 11:01 ©



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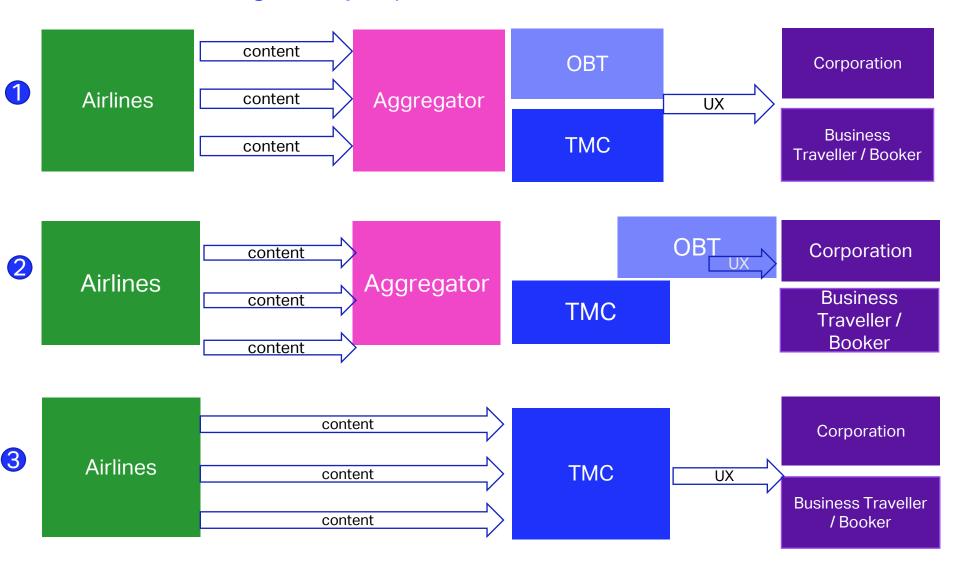
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Examples of airline integrations 1/2

Successful servicing delivery requires a value chain conversation

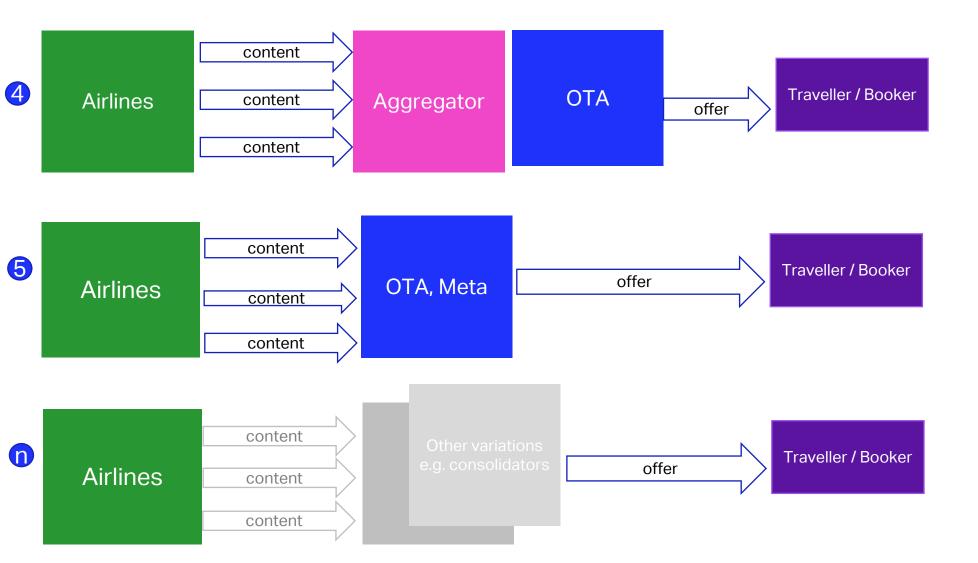


Partners and providers:

- Airline, Corporate, TMC,
 OBT, Aggregator
- Duty of care/traveler security, Reporting, Payment



Examples airline integrations 2/2



Partners and providers:

 Airlines, other service providers, including Intermodal



The industry reality

Day 1: NDC launch

Source of Truth:

Airline's PNR, Ticket, EMD

No airline OMS in place

~~~~~

Source of Truth:

Airline's PNR or Order (transitionary)

Airline OMS WIP

Synchronization effort in implementation

End Game

Source of Truth:

Airline's Order

OMS in place



So what is the best-case of NDC servicing given the legacy constraints?

Discussion

- Includes process simplification opportunities
- Until full offer/order
- Legacy constraints include PNR, Tkt, EMD, RBD, (current) SSR processes etc.



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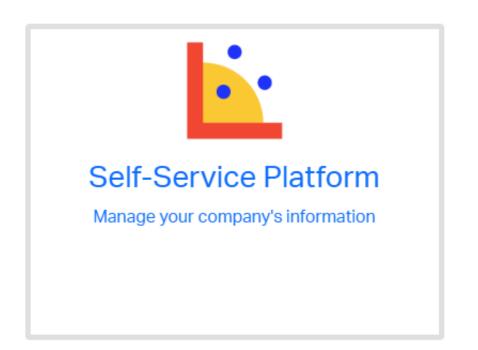
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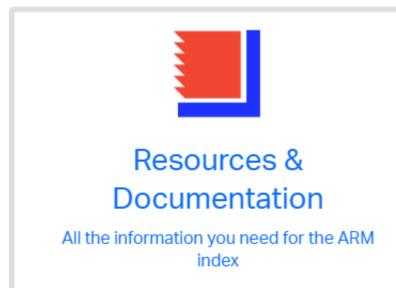




Registry

Registry of companies and their retailing capabilities





The ARM index registry makes it clear which organizations can deploy servicing according to the standard.



Airline Retailing Maturity Status



Airline Retailing Maturity (ARM) index



Capabilities Verification

Capabilities enabled by the IATA standards

Partnerships Deployment

Scalability across the retailing value chain

Value Capture Compass

Maturity of capturing potential value



Table Breakout (10min)

Give 3 tangible and specific ways the ARM index helps in addressing variances and servicing?



Servicing Capabilities

ARM index retailing.iata.org



Order

- [ORDWPM] Create Order Without Payment
- [ORDCRE] Order Creation With Instant Payment
- [ORDCWT] Order Creation Without Tickets/EMDs
- [ORDMSK] Ability to Indicate Masked Prices
- [ORDRSH] Seller-Initiated Change to an Order Requiring a Reshop
 - [ORDRE2] Reshopping for Ancillaries
 - [ORDNAM] Names Changes/Corrections Through Reshopping
- [ORDPAX] Seller-Initiated Change to an Order Not Requiring Reshop
- [ORDCAN] Cancel OrderItem
 - [ORDCA2] Cancel Full Order
- [ORDRET] Order Information Upon Request
 - [ORDHIS] Historical Information on Orders
 - [ORDLST] Order Information on Multiple Orders
- [ORDOCN] Notification of Airline Initiated Changes on an Order
 - [ORDOC2] Notification with Advanced Features
- [ORDGRP] Order Management for Groups
- [ORDDEL] Order Notification for Fulfillment of Services with no Tickets and Notification for Fulfillment of Services with no Tickets and Notification for Fulfillment of Services with no Tickets and Notification for Fulfillment of Services with no Tickets and Notification for Fulfillment of Services with no Tickets and Notification for Fulfillment of Services with no Tickets and Notification for Fulfillment of Services with no Tickets and Notification for Fulfillment of Services with no Tickets and Notification for Fulfillment of Services with no Tickets and Notification for Fulfillment of Services with no Tickets and Notification for Fulfillment of Services with Notification for Fulfillment
- [ORDSTS] Order Status Change for Service Delivery
 - [ORDST2] Order Notification for Fulfillment of Services to the Seller

Pay

Settle

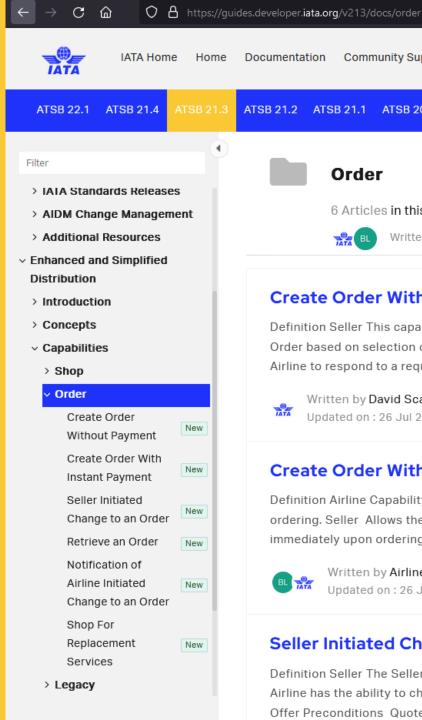


Implementation Guidance

EASD Standards

guides.developer.iata.org

Contact standards@iata.org to be involved in the working groups or contribute to the guidance





Documentation

Order

6 Articles in this category

Community Support

ATSB 21.2 ATSB 21.1 ATSB 20.2 ATSB 20.1 ...



Written by David Scannell, Airline Standards

Q Search

Q Search

Create Order Without Payment

Definition Seller This capability allows the Seller to request that an Air Order based on selection of Offer(s) and Offer Item(s). Airline This cap Airline to respond to a request form the Seller to create an Order...



Written by David Scannell Updated on: 26 Jul 2022

Create Order With Instant Payment

Definition Airline Capability allows an Airline to collect payment imme ordering. Seller Allows the seller to request the creation and pay for a immediately upon ordering. Preconditions Shopping step is already p



Written by Airline Standards, David Scannell Updated on: 26 Jul 2022

Seller Initiated Change to an Order

Definition Seller The Seller has the ability to request a change to an O Airline has the ability to change an Order. Variant 1 Change to an Order Offer Preconditions Quoted Offer, Cancel Offer or Reprice Offer e...

Agenda

Day 2: November 30, 2022, 9:00am - 5:00pm CET

- Industry presentations on Servicing
- 2. The best-case scenario of servicing in NDC with legacy progresses value chain discussion
- 3. Addressing Servicing where are the quick wins and how to solve them

- **4.** ARM index highlights + Standards way of working
- 5. Discussion on best practices to get the most from your NDC implementation?
- **6.** Pulling it together
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Addressing Servicing – where are the (quick)-wins and how to solve them



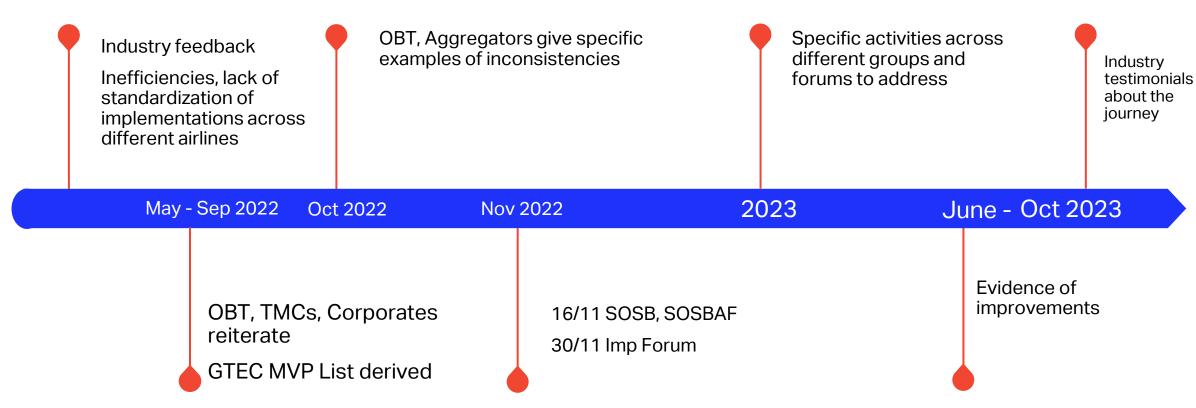
Servicing – where are the quick-wins?

Table deep dive - 20min

Documenting best practices on how offer and order artifacts in retailing standards are integrated into the current standards (e.g. Ticketing, Res)? Give 3 examples where this could be helpful.



Addressing industry Servicing and Inconsistent Implementations challenges





Looking forward

Corporates in TMAG say they would like automation, self-servicing, and are willing to revisit current processes to look for simplification opportunities

OBT support for servicing, opportunity for some capabilities to be moved to the OBE

Airlines?

Sellers?

Intermediaries?



Day 1 Variances Recap

- Reviewed and categorised ~50% of variance list
 - 3 5 quick wins or low hanging fruit
 - Context for variance review should be 21.3 improvements (majority planning for 21.3)
- Most impactful next steps to solve variances
 - 1/Worked examples, 2/Clarify handling of optional elements, 3/Industry feedback loop
- List of 93 variances next steps
 - Send <u>digital</u>:-) copy of your table's categorisation
 - Same tables review remaining items and clarify and categorize (low hanging, etc.)
 - Cross check items vs. working group backlog to be documented (e.g. value store)



Achieving Consistency

29/11 Implementation Forum Input

- Worked examples
- 2. 21.3
- 3. Aim for message consistency
- 4. Accept variances (because of business scenarios, regulations etc.)
 - what is the criteria for an accepted variance?
- 5. Be clear on the approach to handling optional data elements
 - Airlines to rethink the impact of NOT providing optional data
- 6. Legacy impacts variances
- 7. Feedback loop across implementers in the value chain IATA role in this
- 8. Airline role in creating the offer an acceptance by the value chain
- Educating internal (dev and sales) teams at solution providers about new flows
- 10. Using the partner onboarding to align and exchange feedback
- 11. Visibility of known 'bugs'/ backlog



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OPEN Q&A



Please scan to share your feedback















Thank You!

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