IDs & Statuses in NDC & ONE Order

Vanni Sanvincenti
Lead Architect, Industry Distribution

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Persisting IDs – Why?

• Architecture principles introduced in 17.2
• Communicate by Reference, not by Value
• Sender removes repetition of data already known by recipient (also removes the need to “diff” / double-check that repeated values match stored values)
• Required for cross-message referencing
  – E.g. OrderChangeRQ – Cancel “OrderItemID” vs Cancel OrderItem+Services+ServiceDefinitions+FlightDetails+etc.
  – E.g. OrderCreateRQ – Accept OfferID for PaxID vs Accept OfferDetails+OfferItems+Services+####
IDs in Distribution Standards

3 types of IDs
1. Customer-facing
2. Cross-message
3. Intra-message
• Key+KeyRefs defined
<table>
<thead>
<tr>
<th>Candidate IDs - discussion</th>
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<tbody>
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<td>OrderID</td>
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<td>OrderItemID</td>
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<td>PaymentID</td>
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<td>ServiceDefinitionID</td>
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Candidate IDs - discussion

- **OrderID**
  - Refer to Reso 777
  - Currently the only customer-facing ID - TBD
  - Referenced when sending servicing requests, associating payments

- **OrderItemID**
  - Shopping for Offers
  - Servicing Orders

- **OfferID**
  - Shopping for Offers
  - Servicing Orders

- **OfferItemID**
  - Reshopping, Servicing Pax details
  - Note: PaxID starts persisting post-Order

- **ServiceID**
  - Specifying on which Flights Services need to be fulfilled
  - Seat Selection

- **PaxID**

- **JourneyID**
  - Specifying on which Flights Services need to be fulfilled
  - Seat Selection

- **SegmentID**

- **LegID**

- **PaymentID**
  - Referencing Payment transactions (incl. failed txns in unsuccessful OrderCreateRQs)

- **ServiceDefinitionID**
  - Selection of options within ServiceBundles
19.2 IDs – Fun Facts!

- 44 Message (NDC, OO, SwO)
- 100,503 Nodes
- 6134 IDs & RefIDs
- 3585 IDs
- 2549 RefIDs
- 745 KeyRef’ed RefIDs
- 1804 Un-restricted RefIDs
- Approx. 5:1 KeyRef to Key ratio (745:155)
Statuses in NDC & ONE Order

• Usage of status defined in Implementation Guides:
  – Service/StatusCode (19.2+)
  – Service/BookingStatusCode (18.2+)
  – Service/DeliveryStatusCode (18.2+)
• Currently 8 certified implementers using NDC statuses
• Anyone else here using them? If so, how?

../Order/StatusCode
../Order/OrderItem/StatusCode
../Order/OrderItem/Service/BookingStatusCode
../Order/OrderItem/Service/DeliveryStatusCode
../Order/OrderItem/Service/StatusCode

More info on
https://guides.developer.iata.org/docs
Thank you

Vanni Sanvincenti
sanvincenv@iata.org
www.iata.org