



2023 F B II P S Y M P O S I U M

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API and PNR data

Characteristics of PNR and API data

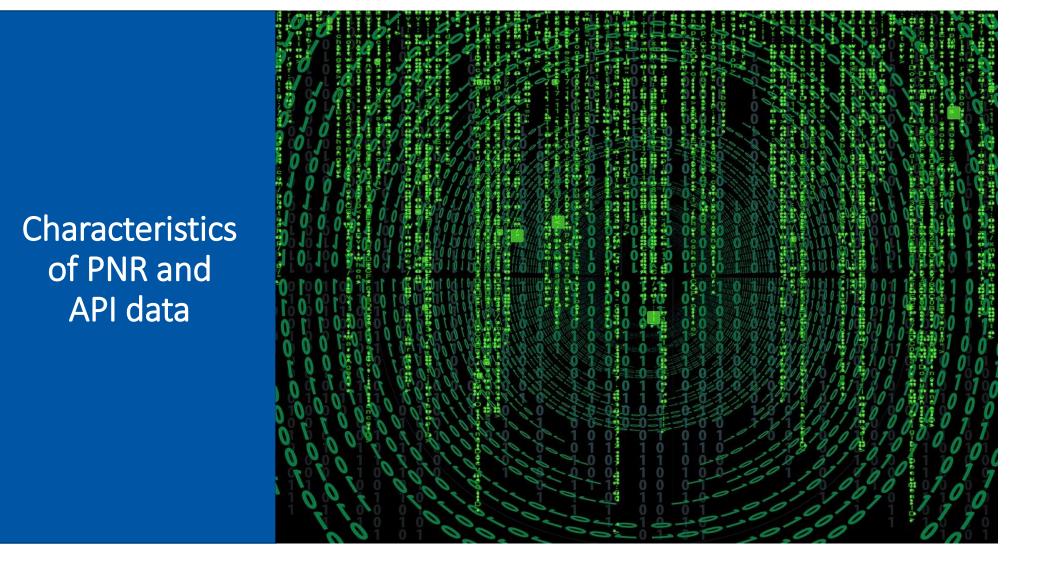
Data formats

Using PNR & API data

Combining PNR & API data

Working Groups







PNR

Passenger Name Record

- Booking data
- > Lower quality
- > Early availability
- > Format: PNRGOV
- ➤ Batch transmission (all at once)



API

Advance Passenger Information

- > Check-in data
- > Higher quality
- ➤ Late availability
- > Format: PAXLST
- ➤ Batch (all passengers at once) or iAPI (one passenger, immediate response from Border Control)





02 Data formats

```
attr, ngSwitchController) {
| | attr.on,
                function ngSwitchWatchAction(value) {
             previousElements.length = 0;
       ## (1 = 0, 11 = selectedScopes.length; i < ii; ++i) {
## selected = selectedElements[i];</pre>
       previousElements(i) = selected;
previousElements(i) = function() {
    previousElements.splice(i, 1);
selectedFlements.length = 0;
selectedScopes.length = 0;
# ((selectedTranscludes = ngSwitchController.cases['!' * value] | | age
forEach(selectedTranscludes, function(selectedTransclude) {
 wer selectedScope = scope.$new();
selectedScopes.push(selectedScopes)
```



```
UNA:+.?*'
UNB+IATB:1+1A+BVAC+201228:0816+0003+++X'
UNH+1+PNRGOV:11:1:IA+281220/0816/RJ/125'
MSG+:141'
ORG+1A:MUC'
TVL+281220:0940:281220:1340+AMM+FRA+RJ+125'
EQN+2'
SRC'
RCI+1A:ZZUU66::061220:1520+1G:JPGRV9:0'
DAT+700:281220:0721'
ORG+1A:MUC+99999999:SWI1G2400+AMM+1G:AMM+T+JO+00001GRM'
TIF+DALE: I+ROKASMR::1'
REF+:2005AE7E0001CFED'
SSR+CTCE:HK:1:RJ::::ROKAS.DALE//GMAIL.COM'
SSR+CTCM:HK:1:RJ:::::009627555547775'
SSR+DOCS:HK:1:RJ::::/C/NLD/VUURR4T/NLD/03SEP91/M/30NOV21/DALE/ROKAS'
TKT+5125592850753:T:1'
DAT+710:061220'
```

PNRGOV

- EDIFACT (plain text), XML (rarely used)
- Mostly used in version 11, 13, or 15
- Standard is defined jointly by Industry, Governments and Organizations
- Collected in RES (Reservation System) by airlines or data providers
- Standard but not fully standardized! Contains free text fields
- Reduced data quality for various reasons (customer supplied data, no checks, ...)

```
UNA:+.?*'
UNB+UNOA: 4+1A:GA+BVAAPIS+220331:1500+1A98601730++APIS'
UNG+PAXLST+GREATAIRLINE:GA+BVAAPIS+220331:1500+1A98601731+UN+D:02B'
UNH+1+PAXLST:D:02B:UN:IATA++02'
BGM+745'
TDT+20+GA1337'
LOC+125+FRA'
DTM+189:2203311700:201'
LOC+87+LHR'
DTM+232:2203311740:201'
NAD+DDU+++DALE:ROKAS'
ATT+2++M'
DTM+329:910903'
LOC+178+ZAG'
LOC+179+LHR'
NAT+2+LTU'
RFF+AVF:09B6PS'
DOC+P:110:111+123491404'
DTM+36:270328'
```

PAXLST

- EDIFACT (plain text), XML (rarely used), JSON (upcoming)
- Mostly used in version 02b or 05b
- Collected in DCS (Departure Control System) at airport counter or via mobile/web app
- High data quality in general only passport data
- Used also for iAPI (immediate response from Border Control)







04 Combining PNR & API data





Identification of Movement A passenger on a specific flight



Flight Details

Origin, destination, scheduled time of departure/arrival, flight number

Personal Details

Name, gender, date of birth, nationality

Travel Document



Booking Information + Data Delivery

Booking reference, single reservation, data delivery ID

Ticket Number



TRIP2023



Identification of a Person Collating all flights of the same person



Personal Details

Name, gender, date of birth, nationality

Travel Document



Booking Information

Booking reference, booking system



TRIP2023

05 Working Groups





Working Groups



Meet twice a year (Spring and Fall):

PNRGOV Working Group

24 October 2023

PAXLST Working Group

25 October 2023



Membership open to IATA and A4A Members, Government Representatives and IATA Strategic Partners



IATA Headquarters

Montreal, Canada



