



International Civil Aviation Organization

Seventh Symposium and Exhibition
on ICAO MRTDs, Biometrics
and Security Standards

ICAO Headquarters, Montréal, Canada
12 - 15 September 2011



API/PNR:

Regulatory Framework and Practical Applications

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Holiday Plans

- MyBank

- YUL-AMS-JNB (return)

- ▶ Name

- ▶ Date of birth

- ▶ Credit card details/Travel Points

- ▶ Address; Telephone Nos.; E-mail

- ▶ Seat; Meals

- ▶ (online): Frequent flyer #; Address

Holiday Plans

At Airport check-in:

- Passport scanned
- Bag(s) weighed & tagged
- Booking / check-in processes:
Airlines collect passenger & flight information
- States want this data
- Subject-matter today . . . Basic introduction



Data: Categories

- Advance Passenger Information: API
- Passenger Name Record: PNR

Overview

- **What** is API [PNR]?
- **Why** do States want API [PNR] data (“practical applications”)?
- **When** is this data collected?
- **What elements** of data make up an API [a PNR] transmission?
- Regulatory framework
- Trends ... and the future

What is API?

... the capture of passenger **and/or** crew member biographic data **and** flight details by the aircraft operator prior to departure [arrival] of the flight.

... **electronically** transmitted to the border control agencies in the destination country.

What is PNR?

... the generic name given to records created by aircraft operators or their authorized agents for each journey **booked** by or on behalf of any passenger. The data are used by operators for their own commercial and operational purposes in providing air transportation services. PNR built up by data supplied for all segments of a passenger's journey.

WHY do States want data?

- ▶ improve clearance at border controls
- ▶ risk management purposes
- ▶ combat illegal migration
- ▶ identify passengers who are a known immigration or security threat [.....]

WHY do States want data? (cont.)

- ▶ improve/enhance security (generally) & aviation security (in particular)
- ▶ threat assessment value from analysis of data
- ▶ identification of potentially high-risk passengers
- ▶ fight against terrorism [.....]

WHY do States want data?

(cont.)

- ▶ more effective allocation of border control and law enforcement resources
- ▶ closer inter-agency cooperation

WHEN is **API [PNR]** data **collected?**

- **PNR:** Captured months/ weeks / days in advance of flight; systems of sales agents, airlines, other entities
- **API:** Available in DCS: flight “open” for check-in (48hrs)

Elements of API [PNR] Data

- 105 (approx.) elements of data in API & PNR combined [Nearly all API in PNR]

▶ 102 / 105 → PNR

▶ 38 / 105 → API

Elements of MRTD Data in API/PNR

10 data elements from primary
MRTD (e.g. MRP):

1. SURNAME	2. GIVEN NAME(S)
3. GENDER	4. DATE OF BIRTH
5. PLACE OF BIRTH	6. NATIONALITY
7. TYPE OF TRAVEL DOCUMENT	8. TRAVEL DOCUMENT NUMBER
9. NAME OF ISSUING STATE/ORGN.	10. EXPIRATION DATE OF TD

Elements of MRTD Data

+ 3 if MRV is used

11. VISA NUMBER	12. DATE OF ISSUANCE	13. PLACE OF ISSUANCE
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+ 2 if other secondary TD used

14. TYPE OF TRAVEL DOCUMENT (e.g. Canadian PRC)	15. NUMBER OF OTHER TD
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[All 10-15 elements part of API]

Other Data Elements

- ▶ Contact details (6)
- ▶ Pax/crew flight details (66+)
- ▶ Payment details (~4)
- ▶ Other information (~4)
- ▶ Data related to aircraft flight
(9)

Elements of API [PNR] Data

- Not all information may be required by a State (esp. API)
 - Not all data elements applicable to all passengers
 - PNR: Not all elements with actual carrier
- ▶ ▶ ▶ Leads to non-uniformity

Regulatory Framework: API

- 1990: USA 1st to implement API
- Concern: Lack of international uniformity
- **WCO+IATA:** API “best practice” Guidelines (1993)
- **2003, 2010: ICAO** endorsement
- **Pax1st Message:** Std. e-message for pax manifest transmissions

Regulatory Framework: API

- WCO, IATA, ICAO: **Max** set of API data in Paxlst (Not all required!)
- **Paxlst → UN/EDIFACT**
- Changes to Paxlst: DMRs to **API Contact Committee**
- **Paxlst → Annex 9**

Reg. Framework: Annex 9

▶ Std 3.47: States shall adhere to int'l standards for transmission of API

▶ Stds 3.47.1 + 3.47.2: States shall: a) **require only MRTD data elements**; b) conform to Paxlst; c) ensure compliance with Paxlst or follow WCO's DMR process

Reg. Fr/work: 37th Assembly

- A37-20, App. D, Sec. III

- ▶ Pax data requirements conform with int'l UN stds

- A37-17, App. C

- ▶ Use of API to reduce risk to pax . . . protection of privacy

- A37: Declaration on AVSEC

- ▶ Use of API & PNR as an aid to security

Regulatory Framework: PNR

- 2004: 12th FAL Division
- Concern: Unilateral PNR data requirements
- Annex 9: RP 3.48
- PNR Guidelines: Cir 309 (2006); Doc 9944 (2010)
- PNR data elements

Regulatory Framework: PNR

- IATA's PNRGOV

- ▶ Message structure & content of PNR data elements

- ▶ Harmonization of PNR

- ▶ Subsequent ICAO endorsement in Doc 9944

- ICAO: 37th Assembly

Trends & the Future

- **API, in force: 38 States**
 - ▶ [Anticipated: 27 States]
 - ▶▶ **iAPI [5 / 3]**

- **PNR, in force: 6 States**
 - ▶ [Anticipated: 29 States]



THANK YOU!

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