









Introduction

**Definitions** 

Key Principles

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Data Elements

Elements

Transmission
Timings
and
Frequency

and Frequency Message Standards

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**Benefits** 

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Benefits

How To

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#### INCREASING NON-STANDARD REQUESTS



























- Understand the complexities of passenger data programs
- Increase awareness of existing international standards and airlines' capabilities
- Understand that ICAO, WCO and IATA can offer assistance and expertise







## DEFINITIONS









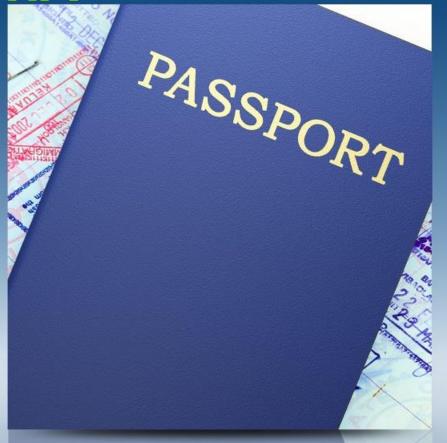
Electronic data concerning passengers' identity (API) or travel reservations (PNR) which is used by public authorities for border control.











API helps identify people you know about.

For instance : people on a watchlist



```
**** ELECTRONIC TICKET ****

F 1.1TEST/HEXAMRS'
WW6ACWW 25JUL KBR4Z5'
1 AC 870 M TU 10SEP YULCDO
FONE-'
1.WW6-T HEXA'
2.WW6-C 1 111 1231231/PAX'
3.WW6-A TEST TRAVEL AGENCY AC
N3 CA'
4.WW6-E SHAILESHD//HEXAWARE.C
TKT-'
1.1 K25JULWW6WW 0142123729112
AP FAX-'
1.1 SSRDOCSYYHK1 ////11MAR84
```

PNRGOV (from PNR) helps notice people and trends you did not know about.

For instance: suspicious travel patterns







# PASSPORT

#### ADVANCE PASSENGER INFORMATION (API)

Information about a person's identity.

- API can be useful for:
- Immigration
- Customs
- Security







#### API - TRANSMISSION

Legacy (Batch) API















#### API - TRANSMISSION

Interactive API (iAPI)









#### PASSENGER NAME RECORD (PNR)

Information about a person's travel reservation. It can be useful:

- For customs, law enforcement, security
- To help identify contraband, smuggling, etc.
- To assist in risk assessment







### KEY PRINCIPLES







#### **KEY PRINCIPLES**

#### "ACE" stands for

- Alignment with standards
- <u>C</u>ooperation with industry and other States (data protection)
- Efficiency: necessary data only























## AIRLINES' SYSTEMS ARE COMPLEX AND DIFFERENT

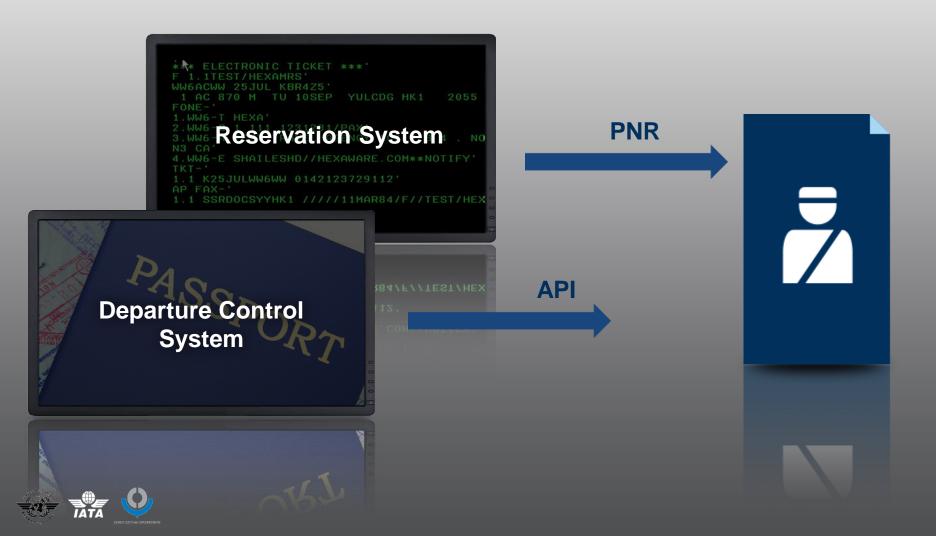
- API or PNR data may be stored in different airline systems
- PNR may look completely different from one airline to the other





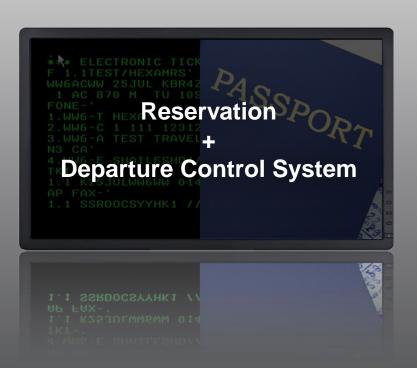


#### AIRLINES WITH SEPARATE SYSTEMS

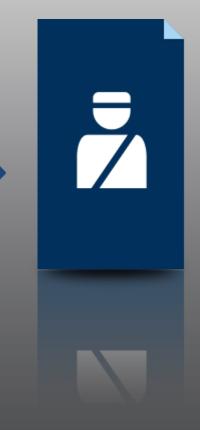




#### AIRLINES WITH INTEGRATED SYSTEMS



Passenger data







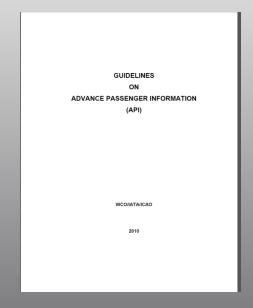




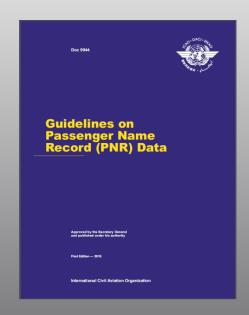
#### WHERE TO FIND THE LIST OF DATA ELEMENTS



Standards and Recommended Practices for API, iAPI and PNR



API and iAPI data elements are listed in the WCO-IATA-ICAO Guidelines on API



PNR data elements are listed in the ICAO Guidelines on PNR Data (Doc. 9944)







## BENEFITS







#### BENEFITS OF STANDARD TRANSMISSION

- Faster implementation
- ✓ Better compliance
- ✓ Cost control
- Reliable data
- Minimum impact on airport infrastructure



## HOW TO







## HOW TO SET UP A PASSENGER DATA EXCHANGE PROGRAM

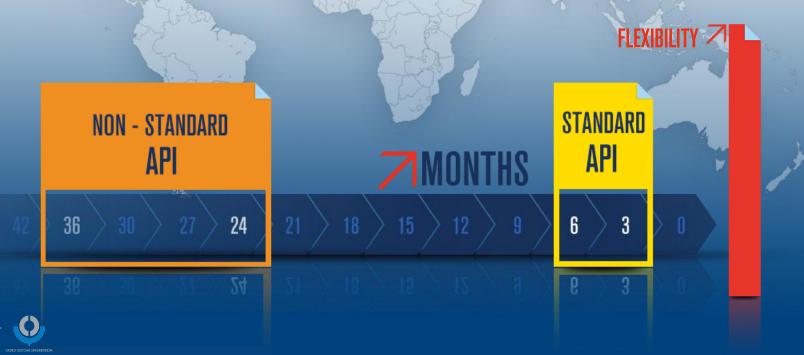
- ✓ Determine your needs Is the data necessary?
- Familiarize yourself with global standards
- Include stakeholders early
- Approach foreign States for any data protection issues
- Check that appropriate legislation is in place
- Seek assistance from experts
- Cooperate and remain flexible



#### **LEAD TIME FOR API**

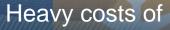
For standard API, airlines need at least 3 to 6 months to

- Configure systems incl. peripheral systems like internet check-in and selfservice kiosks
- Test connectivity
- Train staff



#### **COST AND FUNDING**





- Capturing
- Formatting
- Transmitting data



- Costs of systems development
- Interactive API is a sophisticated system that requires particularly heavy investment

API is a border security requirement. States should not charge airlines (or passengers) in a bid to subsidize their own development costs.













can provide

#### **ASSISTANCE** and **EXPERTISE**

Contact email: passengerdata@iata.org























#### ADVANCE PASSENGER INFORMATION (API)

- API includes data relating to the flight and to each passenger on that flight
- Data elements are contained in the API Guidelines.
- This is an extensive list. States are urged to limit their requests for specific data elements to those deemed essential for their border control needs
- Annex 9 encourages States to limit passenger data to only those elements found in the MRZ







#### API DATA RELATING TO THE FLIGHT

- Flight Identification
- Scheduled Departure Date
- Scheduled Departure Time
- Scheduled Arrival Date
- Scheduled Arrival Time
- Last Place/Port of Call of Aircraft
- Place/Port of Aircraft Initial Arrival
- Subsequent Place/Port of Call within the country
- Number of Passengers



## API DATA ELEMENTS RELATING TO EACH PASSENGER

- Surname/Given Names
- Nationality
- Date of Birth
- Gender
- Official Travel Document Number
- Issuing State or Organization of the Official Travel Document
- Travel Document Type
- Expiration Date of Travel Document



## TRANSMISSION TIMINGS AND FREQUENCY







## BATCH API TRANSMISSION TIMINGS AND FREQUENCY



#### **TIMING**

Not earlier than 30 minutes before departure, preferably when the aircraft door has been closed and the aircraft readied for departure

#### **TREQUENCY**

Single transmission ideally, or transmissions limited to the extent possible.

#### MESSAGE STANDARDS







#### BATCH API MESSAGE AND MODE OF TRANSMISSION

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## KEY PRINCIPLES







### INTERACTIVE API: BENEFITS

- Live information about passengers checking in
- Potential prevention of inadmissible passengers and related penalties
- Use for aviation security, since the information is available before the flight takes off







### INTERACTIVE API: COMPLEXITIES

- State systems must be able to respond in real time to reduce delays at check-in / boarding
- Systems must be available 24/7
- Back-up processes must be in place in case of system failure
- Processes must exist to deal with customers denied boarding
- The responsible authority should have a risk assessment facility to provide appropriate responses and assistance



## DATA ELEMENTS







#### API DATA RELATING TO THE FLIGHT

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# TRANSMISSION TIMINGS AND FREQUENCY







# FREQUENCY



#### **TIMING**

Usually sent when passenger checks in and presents their travel document (typically 24 hours to 1 hour prior to departure)

#### **→** FREQUENCY

One transmission at time of passenger check-in

+ Potentially a final message confirming passengers on board

## MESSAGE STANDARDS







### MESSAGE STANDARDS FOR IAPI



**UN/EDIFACT PAXLST** 

**CUSRES** 

(Customs Response)













PNR









#### PRIVACY AND DATA PROTECTION

- PNR contains personal data
- Countries have different perspectives on how much is "private" or how much can be shared
- State to State agreement may be necessary
- Sensitive data should not be required















#### PNR DATA RELATING TO THE FLIGHT

- PNR can contain as little as a name and flight number
- PNRs may or may not include elements such as:
  - Passenger name (may be limited to surname and first initial);
  - Itinerary;
  - Ticketing information;
  - General contact information;
  - Form of payment;
  - And a range of possible additional information/data. Refer to list in Doc 9944
- Penalties should not be imposed for incomplete or inaccurate data



# TRANSMISSION TIMINGS AND FREQUENCY







# PNR TRANSMISSION TIMINGS AND FREQUENCY



#### **TIMING**

PNR transmission should be required as late as possible prior to flight departure to ensure complete data

#### **7** Frequency

Repeated scheduled transmission and adhoc requests should be limited as much as possible

Some carriers may be able to transmit updates only, if changes were made

## MESSAGE STANDARDS FOR PNR



**PNRGOV** 

**GOVREQ / ACKRES** 

(Government Request / Acknowledgement of Reponse)















