



Passenger Data Exchange

THE BASICS



WORLD CUSTOMS ORGANIZATION



Introduction

Definitions

Key Principles

Data Elements

Transmission Timings and Frequency

Message Standards

Benefits

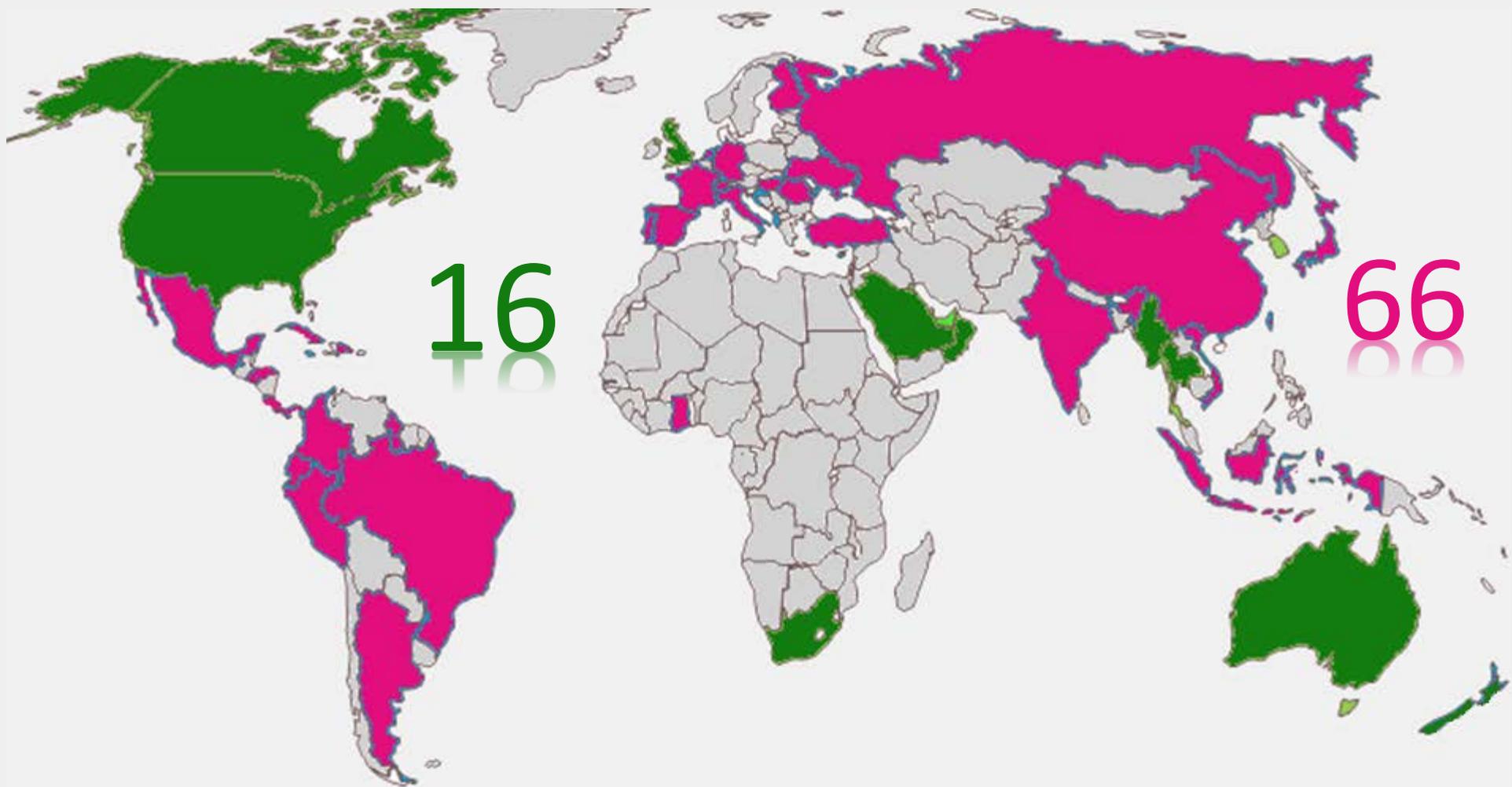
How To

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The implementation of **iAPI** and **API** programs by Member States is becoming a standard



INCREASING NONSTANDARD REQUESTS

PNR
State Design



AI:
Web/Email



etc.

iAI: Commercial Solution



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OBJECTIVE

- 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

PASSENGER DATA—WHAT IS IT?

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

API

VS

PNR

Definitions



API helps identify people you know about.

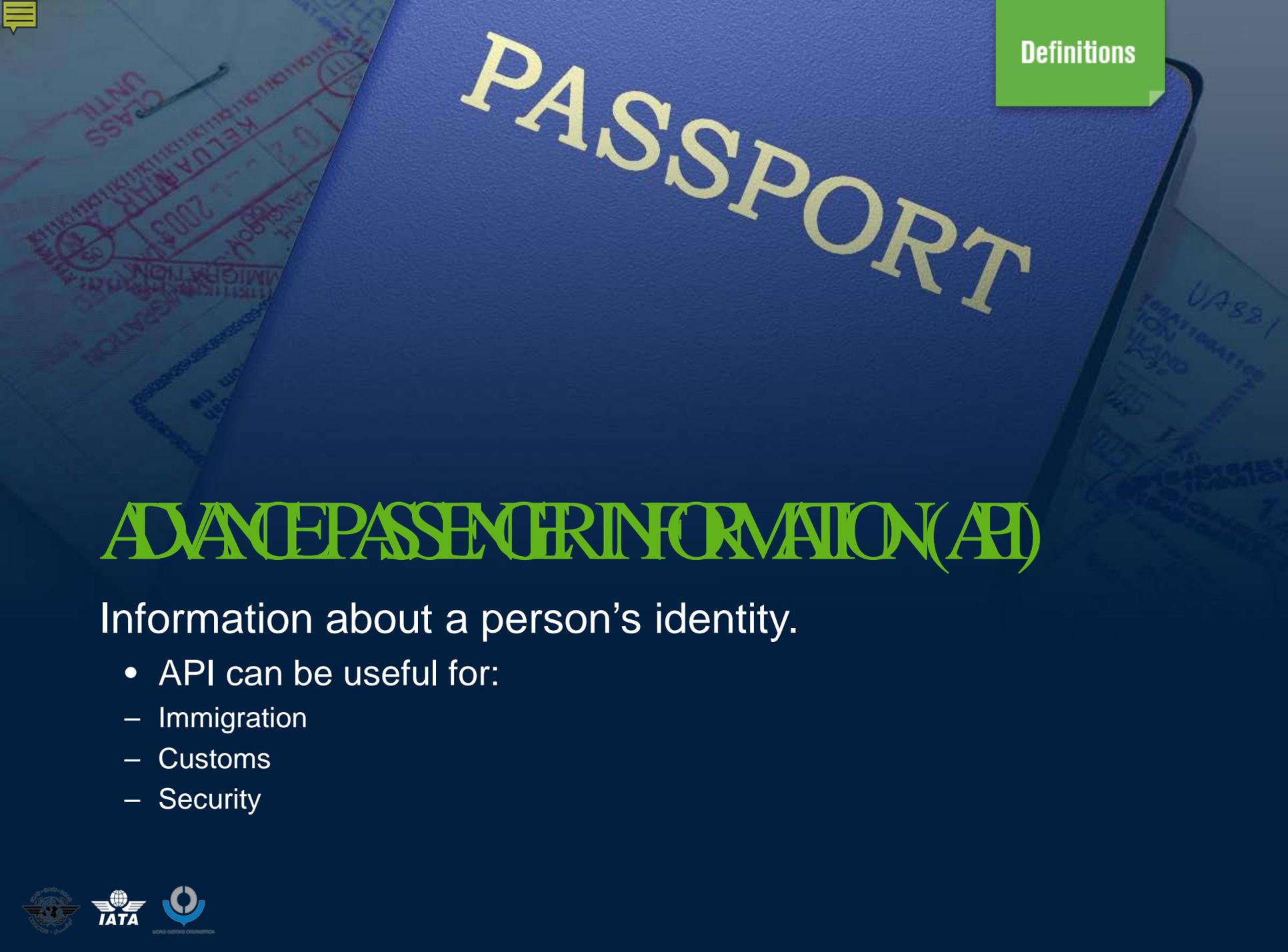
For instance : people on a watchlist

```
*** 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

AIDATA 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**

ALL 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

API – TRANSMISSION

Legacy (Batch) API



BATCH API MESSAGE AND MODE OF TRANSMISSION

	FORMAT	TRANSMISSION MODE
<p>TRADITIONAL/LEGACY</p> <p>Still the most common and widely recognized by the industry</p>	<p>UN EDIFACT PAXLST</p>	<p>Examples include : Type B and MATIP</p>

recognized by the industry
Still the most common and widely

TRADITIONAL/LEGACY

PAXLST
EDIFACT
UN

Type B and MATIP
Examples include :



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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

➤ FREQUENCY

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

API-TRANSMISSION

Interactive API (iAPI)



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

iAPI TRANSMISSION TIMINGS AND 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

KEY PRINCIPLES

“ACE” stands for

- Alignment with standards
- Cooperation with industry and other States (data protection)
- Efficiency: necessary data only

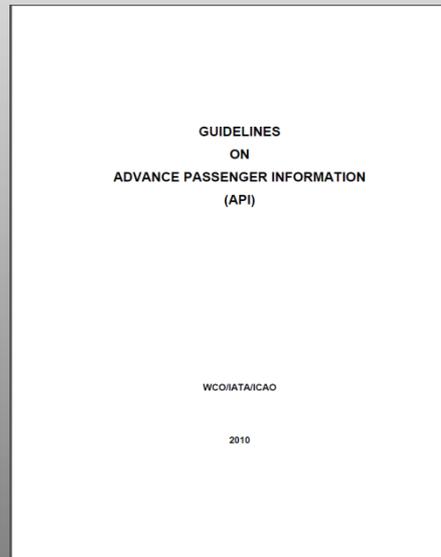
SINGLE WINDOW



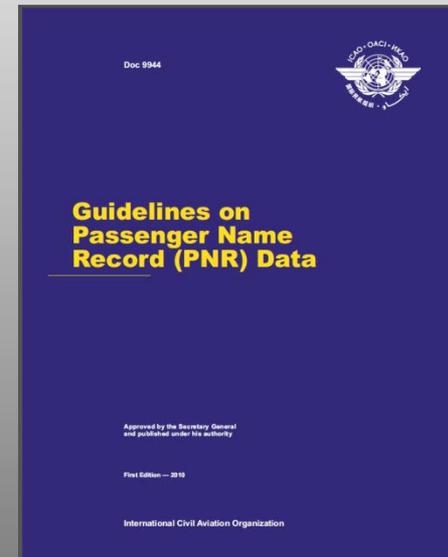
WHERE TO FIND THE LIST OF DATA ELEMENTS



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 OF STANDARD TRANSMISSION

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

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 self-service kiosks
- Test connectivity
- Train staff

FLEXIBILITY ↗

NON - STANDARD
API

36 30 27 24

↗ MONTHS

STANDARD
API

6 3 0

COST FUNDING



Heavy costs of

- 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.



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can provide

ASSISTANCE and EXPERTISE

Contact email: passengerdata@iata.org

THANK YOU
FOR YOUR ATTENTION

