

RESOLUTION 792

BAR CODED BOARDING PASS (BCBP) — VERSION 3

∧ PSC(30)792

Expiry: Indefinite

Type: B

RESOLVED that:

Members may issue, either for online or interline carriage. a Boarding Pass with version 2 of the Bar Code standard as described herein. All of the following specifications define the required characteristics of the elements and format of the Bar Code on the Boarding Pass or electronic (mobile) device.

Section 1 — General

INTRODUCTION

This resolution defines a machine-readable bar code for boarding passes or electronic (mobile) devices. This data format supports single segment, multi-segment and inter-line data encoding. The 2-dimensional Bar Code format has the capacity to convey this data allowing a wider range of devices to display or produce boarding passes with encoded data.

1.1 USE OF BAR CODED BOARDING **PASS**

This resolution addresses the Bar Code format for use on single-segment and multi-segment Boarding Passes. This does not preclude the ability for a Member to adopt their own Bar Code for online use, or for use as bilaterally agreed upon between a Member and an interline partner.

riangle The Bar Code format also permits an airline to include its own proprietary data, and a digital signature alongside the required Bar Code information.

riangle A Bar Coded Boarding Pass may not be issued for more than one passenger.

1.1.1 USE OF PAPER BAR CODED **BOARDING PASS**

The Bar Code presented here is designed for use on all forms of Boarding Pass stock, including ATB (Automated Ticket and Boarding Pass), General Purpose (i.e. kiosk) and self-printed (i.e. web check-in). The Bar Code shall be printed on the same side of the page as the passenger and flight information. The Bar Code does not require any specific placement or orientation on the Boarding Pass. However it is recommended that the Bar Code be printed adjacent and parallel to an edge of the document in order to facilitate the use of reading devices.

1.1.2 USE OF ELECTRONIC (MOBILE) **DEVICE BOARDING PASS**

 \triangle The Bar Codes presented here are designed for use on an electronic (mobile) boarding pass. These Bar Codes should be able to be displayed by all modern electronic (mobile) devices and to have the screen display optimised. Airport Bar Code Readers should be able to read the printed Bar Codes as well as the electronic (mobile) presented symbologies. The digital signature only applies to electronic (mobile) boarding passes.

1.2 ACCEPTANCE

In accordance with their interline travel agreements, Members shall accept and honour Boarding Passes or documentation with Bar Codes issued under this resolution.

Section 2 — Technical Specifications Scope

This data structure is designed exclusively for use on Bar Coded airline boarding documents, passes and Electronic Ticket Itinerary Receipts. The resolution defines the encoding of Bar Code data, and its visual representation and placement on a document or electronic (mobile) device.

The use of this Bar Code does not impose additional requirements or restrictions on what else is displayed on the boarding document or pass.

2.1 TECHNICAL REQUIREMENTS

2.1.1 Printed Boarding Pass

The Bar Code presented here is a 2-dimensional Bar Code in PDF417 standard containing a structured data message (SDM). This message as defined in ISO/IEC 15438 contains fixed-length fields and variable-length data that can be used by airlines at their discretion.

The PDF417 Bar Code format permits flexibility in the size, readability, robustness and capacity of printed Bar Codes. It is widely supported by current Bar Code scanners and printers, and is already in use within the airline industry.

2.1.2 Electronic (Mobile) Boarding Pass

The Bar Codes presented here are 2-dimensional bar codes in Aztec, Datamatrix and QR code formats containing a structured data message (SDM). Airlines are free to choose one of the three presented Bar Code formats.

The Datamatrix message as defined in ISO/IEC 16022 contains fixed-length fields and variable-length data that can be used by airlines at their discretion.

The QR message as defined in ISO/IEC 18004 contains fixed-length fields and variable-length data that can be used by airlines at their discretion.



The Aztec message as defined in ISO/IEC 24778 contains fixed-length fields and variable-length data that can be used by airlines at their discretion.

Aztec, Datamatrix and QR permit flexibility in the size, readability, robustness and capacity of Bar Codes.

2.2 STRUCTURE REQUIREMENTS

This Bar Code format allows for 1 fixed-length and 2 variable-length sets of data. The fixed-length data refers to all elements that are required and must be included within every Bar Code. The first set of variable-length data is conditional (use if available) and the second set of variable length data is optional which allows airlines to include their own information alongside the required elements.

The 2nd variable-length data (optional) can include non-printable (binary) data. A Bar Code scanning system designed for this Bar Code format must scan and accept with valid data, including non-printable data in the variable length segment, even if it does not use of all of the data. The maximum size of the bar code shall not exceed 600 characters.

2.3 BAR CODE STRUCTURE SPECIFICATIONS

See Resolution 792, Attachment 'A'.

□ **Note:** the S format was removed from these specifications in 2007. Therefore carriers should stop using the S format no later than 1 June 2009.

2.4 EXAMPLES

△ Five examples reflecting the positioning of the data in the bar code and the string of characters to be encoded can be found in Resolution 792, Attachment 'B'.

2.5 BAR CODE SPECIFICATION

2.5.1 PDF 417 barcode

As it is envisaged that Bar Codes will be produced in different environments (e.g. home printer, kiosk, etc.) and read with different devices (laser, optical, etc.), the following guidelines have been developed.

Printing resolution of an ink jet personal printer: minimum 300 dpi (maximum not applicable).

Printing resolution of a direct thermal GPP (General Purpose Printer): minimum 200 dpi (maximum not applicable).

Recommended Setting for PDF 417

X Dim = 10 mils or 0.03CM (one inch is approximately 3CM)

X to Y ratio = 3

Note: X Dim is the width of a narrow bar. The Y dimension is the height of each row within the PDF417 symbol.

Error Correction Level 3 4
Number of characters encoded 41–160 161–320

2.6 REFERENCES: BAR CODE SPECIFICATIONS

See Resolution 792, Attachment 'C'.

2.7 USAGE ON ELECTRONIC TICKET PASSENGER ITINERARY RECEIPT

When a Bar Code is printed or displayed on an electronic passenger itinerary receipt, it shall be in accordance with the provisions of this resolution. Conditional element 16 shall be present with indicator 'I' to identify that the Bar Code is printed on an itinerary receipt and not the boarding pass document.

☐ 2.8 DATA EXCHANGE OF 2D BAR CODE DATA ELEMENTS

- **2.8.1** IATA PADIS XML message standards shall be used for the Data Exchange of the 2D bar code data elements
- 2.8.2 For data message exchange of 2D bar code data elements between a system or process needing to read and validate the data in the 2D barcode and an airline's DCS system, an IATA PADIS XML Message Exchange Standard has been developed to support this exchange.
- 2.8.3 This PADIS XML standard is developed and maintained by PADIS XMLWG under the PADIS BOARD umbrella as defined in IATA Resolution 783.
- 2.8.4 The XML Standard messages (schema) and supporting documentation is stored under the IATA PADIS private site and can be accessed by following URL: http://extranet2.iata.org/sites/padis_xml_typex_releases / default.aspx.



Resolution 792 Attachment 'A'

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BCBP M FORMAT VERSION 3

	New item number	Element Description	Field	Unique / repeated	Data type	Formatting	Ref no(s)
	-	Format Code	1	⊃	•		m
	2	Number of Legs Encoded	-	∍	z		۵
	1	Passenger Name	20	Þ	-	Left justified and trailing blanks	14
	253	Electronic Ticket Indicator	-	Þ	-		65
SI	7	Operating carrier PNR Code	7	œ	-	Left justified and trailing blanks	O
шə	26	From City Airport Code	8	œ	æ		56
đị /	38		3	œ	æ		56
(uo	42	Operating carrier Designator	3	œ	-	Left justified and trailing blanks	
tek	43	Flight Number	5	œ	NNNN[a]	Leading zeros on numerics and alpha or blank on last digit	
oue	46	Date of Flight (Julian Date)	3	œ	z	Leading zeros	4
W	71	Compartment Code	_	œ	æ		17
	104	Seat Number	4	œ	NNNa	Leading zeros on numerics	
	107	Check-In Sequence Number	5	œ	NNNN	Leading zeros on numerics and alpha or blank on last digit	
	113	Passenger Status	1	~	ţ		16
	9	Field size of variable size field (Conditional + Airline item 4)	2	œ	-	Right justified and leading zeros	σ
	∞	Beginning of version number	1	Э		> sign	
	6	Version number	1	U	f	Number sign	f
	10	Field size of following structured message - unique	2	U	ţ	Right justified and leading zeros	g
	15	Passenger Description	1	n	ţ		49
	12	Source of check-in	1	>	<u>_</u>		ح
	14	Source of Boarding Pass Issuance	1	>	<u>_</u>		_
ę	22	Date of Issue of Boarding Pass (Julian Date)	4	n	z	First digit for the year then 3 digits with leading zeros	4
swi	16	Document Type	1	n	ţ		. –
əţi	21	Airline Designator of boarding pass issuer	3	n	ţ	Left justified and trailing blanks	0
lsr	23	Baggage Tag Licence Plate Number (s)	13	⊃	-	As per BSM specifications	۵
ıoi	17	Field size of following structured message - repeated	2	٣	z	Right justified and leading zeros	¥
tibi	142	Airline Numeric Code	3	œ	z	Right justified and leading zeros	
uo;	143	Document Form/Serial Number	10	ď	-	Right justified and leading zeros	
2	18	Selectee indicator	_	œ	ų.		_
	108	International Documentation Verification	_	œ	-		22
	19	Marketing carrier designator	3	œ	-	Left justified and trailing blanks	٤
	50	Frequent Flyer Airline Designator	က	œ	-	Left justified and trailing blanks	_
	236	Frequent Flyer Number	16	~	-	Depends on the carriers and alliances	42
	88	ID/AD Indicator	1	œ	Ţ		53
	118	Free Baggage Allowance	3	œ	ţ		59
	4	For individual airline use	Var	œ			Φ
ŗλ	25	Beginning of Security Data	1	U		^ sign	
ļun	28	Type of Security Data	1	n	ţ		
ıɔə	59	Length of Security Data	2	n	ţ	Right justified and leading zeros	δ
S	30	Security Data	Var	n	ţ		r
	+ Z @ □ *	Alpha-Numerical (full set ASCII including symbols) Numerical (0-9) Alphabetical (A-Z) Optional Mandatory when issued on an ET Itinerary Receipt					
	*	Optional when issued on an ET Itinerary Receipt					



RESOLUTION 792 Attachment 'B'

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EXAMPLE — M1 USING MANDATORY ELEMENTS ONLY

			1	Ĺ	H	ŀ	F	_	F	ŀ	F	t	ŀ	F	ŀ	ŀ	L	ŀ	
New Item	Element Description	Size	Unique / repeated	_	^	4	5		7	- 6	10 11	12	13 14	15	16	17 18	19	20	Notes
	Format Code	_	b	Σ	+		_				+	1	+		: [-	:	+	
5	Number of Legs Encoded	-	n	-	H	┢		\vdash			-		_		\vdash	H		\vdash	
=	Passenger Name	20	n		Ш	S	4	R	_ _	S		_	ပ						
253	Electronic Ticket Indicator	-	n	ш	Н	H		\vdash		H	H		┝		\vdash	H		H	
	Operating carrier PNR Code	7	R	_ <	В	7	2	က					-			H			
	From City Airport Code	3	2		_ _	_		\vdash											
38	To City Airport Code	3	2	<u>-</u>	2	4		\vdash					H						
42	Operating carrier Designator	3	2	4	ပ			\vdash		Н	H		\vdash		\vdash	H		H	
43	Flight Number	5	æ		8	3 4		\vdash								┡			
[_	Date of Flight (Julian Date)	3	2		-	9							_			H		⋖	August 14th
12	Compartment Code	-	2	_	-	H	L	+	L	t	╀	İ	+		+	\vdash	L	+	
104	Seat Number	4	2	0	0	1		H	L	t	-	L	H		t	H		H	
107	Check-In Sequence Number	2	2	-	+	2 5					-		-			\vdash			
113	Passenger Status	-	2	-	Н	H		\vdash			-		\vdash		\vdash	H		H	
	Field size of following variable size field	2	8	0	0	┝		\vdash		\vdash			\vdash		\vdash	\vdash		10	0 in Decimal = 00 in Hexidecimal
	Beginning of version number	-	n													H			
6	Version number	-	n	İ	H	┢		\vdash			-		_			┡			
ا	Field size of following structured message - unique	٥	=	İ	t	┝	L	H	L	H	-	L	H		t	\vdash		+	11 in Decimal = B in Hexadecimal
15		-		İ	t	╀	L	+	L	t	╁	İ	+	L	+	\vdash	L	╫	1
12	Source of check-in	-		L	t	-				T			\vdash			H			
. _	Source of Boarding Pass Issuance	-		İ	+	╁		+		\dagger	-	L	+		+	+	L	+	
22	Date of Issue of Boarding Pass (Julian Date)	4		İ	t	╀		+		t	\vdash		+		H	-	L	9	= 2006, 225 = August 13th
16	Document Type	-	D	İ	H	⊢		\vdash		t			┢		\vdash	-			
	Airline Designator of boarding pass issuer	3	⊃																
23	Baggage Tag Licence Plate Number (s)	13	n			-										\vdash			
		2	2		\vdash	┝		\vdash		Н	L		┝		\vdash			4	41 in Decimal = 29 in Hexadecimal
142	Airline Numeric Code	3	2	İ	-	┢										H			
143	Document Form/Serial Number	10	2																
18	Selectee indicator	-	R.		H	H							\vdash					z	Not applicable to that flight
108	International Documentation Verification	-	æ																
19	Marketing carrier designator	က	2																
20	Frequent Flyer Airline Designator	3	R		H	H										H			
9	Frequent Flyer Number	16	R		Н								_						
	ID/AD Indicator	-	Z.																
118	Free Baggage Allowance	3	2																
4	For individual airline use	Var	2					H					H			H		a.	airline specific
25	Beginning of Security Data	-	n	<	H	-		\vdash			-		_		\vdash	H			-
_	Type of Security Data	-	n	-	H	\vdash		\vdash		H	-		H		\vdash	H		H	
	Length of Security Data	2	n	9	4	┝										H		F	100 in Decimal = 64 in Hexadecimal
	Security Data	100	N	ຶ		<u>></u> ∧	Ö	2 E	ЕН	7	z	F	8 9	4	<u>н</u>	2 >	7	6	
				1	3			4	-		<u>2</u>	8	A	ш	0	-	ပ	<u>ы</u>	continued from previous row
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\triangle EXAMPLE 2 — 1 SEGMENT, ALL CONDITIONAL AND OPTIONAL DATA FILEDS POPULATED

Value	9 10 11 12 13 14 15 16 17 18 19 20 Notes			S / L U C								August 14th					76 in Decimal = 4C in Hexadecimal			24 in Decimal = 18 in Hexadecimal							5 6 0 0 3	41 in Decimal = 29 in Hexadecimal		0 6	Not applicable to that flight				9 0 1 2 3			airline specific			100 in Decimal = 64 in Hexadecimal	1	N 5 J 8 K 4 F 0 L 0 G E continued from previous row	N 8 7 0 9 H K T 5 D 3 D continued from previous row	M Y 7 J 5 T 6 H F R 4	N 5 J 8 K 4 F 0 L 0 G E continued from previous row
Field Unique /	Size repeated 1 2 3 4 5 6 7 8			20 U D E S M A R A I	<u>ш</u>	Г		-	_ •	∀		R 2	ي	4 R 0 0 1 A	R 0 0 2		2 R 4 C		1 O 1	2 0 18)			4 U 6 2 2 5	Г		n	2 R 2 9	R 0 1	10 R 1 2 3 4 5 6 7 8	х				16 R 1 2 3 4 5 6 7 8	1 R	3 R 2 P C	Var R L X 5 8 Z	< -		2 0 6 4	>	1 W 2 Q A	Q3DF5TGB	GBHFC	1 W 2 Q A 4 D V
Field	Size repeated 1 2		Г	□ □	ш	7 R A B	= >	- u	< (L	3 R	R 0 8	R 2 2	ي	۳ 0	5 R 00		field 2 R 4	D		2 0			D	4 0 6 2	Г	issuer 3 U A	r (s) 13 U 0 0	- repeated 2 R 2	3 R 0 1	10 R 1 2	_	Verification 1	3 R	3 R A	16 R 1 2	1 R	R 2 P	R .	< -		9	– 9	1 W	က	က	
Element	Description	Format Code	Number of Legs Encoded	Passenger Name	Electronic Ticket Indicator	Operating carrier PNR Code	From City Airport Code	To City Airport Code	outy All point Code	Operating carrier Designator	Flight Number	Date of Flight (Julian Date)	Compartment Code	Seat Number	Check-In Sequence Number	Passenger Status	Field size of following variable size	Beginning of version number	Version number	Field size of following structured message - unique	Passenger Description	Source of check-in	Source of Boarding Pass Issuance	Date of Issue of Boarding Pass (Julian Date)	Document Type	Airline Designator of boarding pass	Baggage Tag Licence Plate Number (s)	Field size of following structured message	Airline Numeric Code	Document Form/Serial Number	Selectee indicator	International Documentation Verification	Marketing carrier designator	Frequent Flyer Airline Designator	Frequent Flyer Number	ID/AD Indicator	Free Baggage Allowance	For individual airline use	Beginning of Security Data	Type of Security Data	Length of Security Data	Security Data	,			
New item	number		5	11	253	L	L	eti S2	_		4 3	46		104	107	113	9	80	6			12 12			1t s		щ. 23								236	88	118	4	25	28	29	L	าวฮ	30 S		

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EXAMPLE 3 — 1 SEGMENT, PARTIALLY POPULATED

9	1 12 13 14 15 16 17 18 19 20 Notes			/ WELAN-E							August 16th																13 in Decimal = 0D in Hexadecimal													100 in Decimal = 64 in Hexadecimal	N T 6 8 4 F V N J 9	8 K 4 F 0 L 0 G E	9 H K T 2 D	J 5 T 6 H F R 4	J 8 K 4 F 0 L 0 G E continued from previous row
L	Field Unique / Size repeated 1 2 3 4 5 6 7 8 9 10 11		Т	20 U GRANDMAIRE	— Ш	7 R ABC123		C		R 0		~		5 R 0 0 2 5		2 R 113	1 U V	1 0 3	2 U 0 0 0				→ 4		3 0			5 7		1 R		3 R			A	3 R	Var R	< n		2 U 6 4	100 U G 1 W V C 5 E H 7 J 	Q A 4 D V N 5	3 D F 5 T G B N 8	G B H F C V	1 W 2 Q A 4 D V N 5
	Element Description	Format Code	Number of Leas Encoded	Passenger Name	Electronic Ticket Indicator	Operating carrier PNR Code	From City Airport Code	To City Airport Code	Operating carrier Designator	Flight Number	Date of Flight (Julian Date)	Compartment Code	Seat Number	Check-In Sequence Number	Passenger Status	Field size of following variable size field	Beginning of version number	Version number	Field size of following structured message - unique	Passenger Description	Source of check-in	Source of Boarding Pass Issuance	Date of Issue of Boarding Pass (Julian Date)	Document Type	Airline Designator of boarding pass issuer	Baggage Tag Licence Plate Number (s)	Field size of following structured message - repeated	Airline Numeric Code	Document Form/Serial Number	Selectee indicator	International Documentation Verification	Marketing carrier designator	Frequent Flyer Airline Designator	Frequent Flyer Number	ID/AD Indicator	Free Baggage Allowance	For individual airline use	Beginning of Security Data	Type of Security Data	Length of Security Data	Security Data				
	New item	_	. 2	=======================================	253			Ji V					104	107	113	9	80	6	10		tue 12			s 1r 16		Т			143						88	118	4	25	28	1	hinu	100	06 S		



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EXAMPLE 4 — 2 SEGMENTS, ALL CONDITIONAL AND OPTIONAL DATA FIELDS POPULATED

	_				_	_	_	_	_	_	_		_	_							_		_		_	_	_	_	_	_`	_		_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_			
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 Notes			SMARAIS/LUC		-				+	o l	•	-	2 5		76 in Decimal = 4C in Hexadecimal			24 in Decimal = 18 in Hexadecimal				2 5 6 = 2006, 225 = August 13th			8 5 1 2 3 4 5 6 0 0 3	_	4	3 4 5 6 7 8 9 0	Not applicable to that flight			111000000000000000000000000000000000000	3 4 3 6 7 8 9 0 1		a ∠ u	, ц	. 4			7			0 2	-		45 in Decimal = 2D in Hexadecimal	41 in Decimal	4	8 7 6 5 4 3 2 1					2 4 5 7 8 9 0 1 2 3			_			100 in Decimal = 64 in Hexadecimal	W V C 5 F F H 7 - N T 6 8 8 4 F F N T 6 8 8 4 F F N T 6 8 8 4 F F N T 6 8 8 7 F F F N T 6 8 8 7 F F F N T 6 8 8 7 F F F N T 6 8 8 7 F F F N T 6 8 8 7 F F F N T 6 8 8 7 F F F N T 6 8 8 7 F F F N T 6 8 8 7 F F F N T 6 8 8 7 F F F N T 6 8 8 7 F F F N T 6 8 7 F F F N T 6 8 7 F F F N T 6 8 7 F F F N T 6 8 7 F F F N T 6 8 7 F F N T 6 7 F F N T 6 7 F F N T 6 7 F F N T 6 7 F F N T 6 7 F F N T 6 7 F F N T 6 7 F F N T 6 7 F F N	2 O A 4 O C C C C C C C C C C C C C C C C C C	D F 5 T G B N 8 7 0 9 H K T 5 D 3 D	G B H F C V H M Y 7 J 5 T 6 H F R	2 Q A 4 D V N 3 3 8 N 4 F 0 L 0 6 E
-	Σ	7	<u>ы</u> О і	ш Ф) = (>) « (c		7 7			0	_	4 C	^	က	~	-	>	$\overline{}$	9	_				0	1		_		ہ ۲ ∀	7				7 IT					יי	0	0	_	2 D		0	6		-	. A			-	ر م		_	-	- 9			Θ	ε ; Α	-
Unique /	D	Э	> :	o 0	2 02	<u> </u>	۵ ک	۵ م	۵ ک	צו	× c	١	2	ا ک	r :	0	5	⊃	⊃	⊃	Ω	∍	o :	0	5	۱ ۲	œ	۱	۱ ۲	2 (× (צמ	צ מ	2 د	צ מ	: 0:	2 02	2 02	: 02	2	: a	: 02	2	2	2	œ	œ	œ	œ	œ	œ	2 02	2 02	۵ م	<u>د</u> م	<u>د</u> م	<u>د</u> م	:=	=	=	=)			
Field Size	-	-	2	-	- 6	0 6	2 0	2 4	0	?	-	4	2		7	-	-	2	-	-	-	4	-	0	2	7	0	10	-	- 0	200	υ á	₽ ₹	- 0	ره د	-	- (**	0 60	o cc	2.0	· c	-	4	5.	-	2	2	9	9	-	-	- m	0 60	2 4	2 -	- ~	Var	-	-	- 6	101	2			_
Element Description	Format Code	Number of Legs Encoded	Passenger Name	Operating carrier DNR Code	From City Aimort Code	To City Airport Code	Describe confor Decimater	Eliah Number	Deta of Eliabt (Inlian Data)	Date of Flight (Julian Date)	Compartment Code	Seat Number	Check-In Sequence Number	Passenger Status	Field size of following variable size field	Beginning of version number	Version number	Field size of following structured message - unique	Passenger Description	Source of check-in	Source of Boarding Pass Issuance	Date of Issue of Boarding Pass (Julian Date)	Document Type	Airline Designator of boarding pass issuer	Baggage Tag Licence Plate Number (s)	Field size of following structured message - repeated	Airline Numeric Code	Document Form/Serial Number	Selectee indicator	International Documentation Verification	Marketing carrier designator	Frequent Flyer Almine Designator	ID/AD Indicator	ID/AD IIIdicatol	Free Baggage Allowance	Operating carrier DNR Code	From City Airrort Code	To City Aimort Code	Onerating carrier Designator	Flight Number	Date of Flight (Julian Date)	Compartment Code	Seat Number	Check-In Sequence Number	Passenger Status	Field size of following variable size field	Field size of following structured message - repeated	Airline Numeric Code	Document Form/Serial Number	Selectee indicator	International Documentation Verification	Marketing carrier designator	Fragiliant Flyar Airline Designator	Frequent Fiver Number	ID/AD Indicator	Free Bandade Allowance	For individual airline use	Beginning of Security Data	Type of Security Data	I specific Data	Security Data				
New item number	-	2	11	207	. 8	S &	3 5	¥ 6	2 9	9	7	104	107	113	9	∞	<u>ه</u>	10	12	12	14	22	16	54	23	14	142	143	9	108	9	250	857	97,0	<u> </u>	-	. 92	2 %	4	43	46	71	104	107	113	9	17	142	143	18	108	6	2	236	3 8	118	4	. 52	3 8	200	87		30		
				s	·w	əti	λı	ote	pu	ysı	N		1	_				ı	# 1	uə	wß	ìəs	зų	gil	∃ -	su	uəş	i le	uo	(3)	ouc	ာ၁					14	6il		# 1 su			ioj	epi	uel	N			;# I su											,	γity	no	əS		

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EXAMPLE 5 — 2 SEGMENTS, PARTIALLY POPULATED

the witem beautiful beauti	Value	Size repeated 1 2 3 4 5 6 7 8 91011121314151617181920 Notes	2	20 U GRANDMAIRE/MELANIE	Е .	A (44 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (ט פ	2	- 6	Subject of the subjec	<u> </u>	0 0 0	2 4	2 R 2 F In Hexadecimal		Т	П	1 O	0:10				13 O	2 R 2	R 0 5 7	10 K 1 2 3 4 3 6 7 8 9 0 Not annificable to that flight			α C C C C C C C C C C C C C C C C C C C			3 R 20 K	7 R D E	0 0	RDT	3 ·	<u>~</u> 0	00 77 14		0 0	CC	2 K	2 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	10 R 0 9 8 7 6 5 4 4 3 2 2 1	0			υς σ				-	U 1	6 4		1 W 2 Q A 4 D V N 5 J 8 K 4 F 0 L 0 G	1 W 2 Q A 4 D V N 5 J 8 K 4 F 0 L 0 G Q 3 D F 5 T G B N 8 7 0 9 H K T 5 D 3
- [8 5] 1 [4] 1 1 1 1 1 1 1 1 1	n Element Field	Description Size		Passenger Name	253 Electronic Ticket Indicator 1	T		Ť	T	T	T	Seat Number	Check-In Sequence Number	Passenger Status	Field size of following variable size field	Beginning of version number	Ť	Field size of following structured message - unique		T	Source of Boarding Pass Issuance	Document Type	Airline Designator of boarding pass issuer	Baggage Tag Licence Plate Number (s)	Field size of following structured message - repeated	Airline Numeric Code	Selectes indicator	Τ	Marketing carrier designator	Frequent Flyer Airline Designator	Frequent Flyer Number	Т	Free Baggage Allowance	Operating carrier PNR Code	From City Airport Code	To City Airport Code	Operating carrier Designator	Flight Number	Compartment Code	Seat Number	Check-In Sequence Number	Passenger Status	Field size of following variable size field	Airline Numeric Code	Document Form/Serial Number	Selectee indicator	International Documentation Verification	Marketing carrier designator	Frequent Flyer Airline Designator	ID/AD Indicator	Free Bandade Allowance	For individual airline use	Beginning of Security Data	Type of Security Data	Length of Security Data			30



RESOLUTION 792 Attachment 'C'

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REFERENCES

N _o	Description	Notes	Set of values
4	Date of Flight - Date of Issue	Calendar date. In date of issue, precede by single digit for year.	"001": Jan 1st, "6001": Jan 1st 2006, "365" Dec 31st, "6365": 31st Dec 2006
4	Passenger Name	Surname of passenger followed by an oblique and the given name, when available. When there is not enough space for the given name, encode at least one alpha character or initial. If surname exceeds 18 characters, furname are 18th character followed by an oblique and one alpha initial.	
4	, , , , , , , , , , , , , , , , , , ,		O ticket issuance/passenger not checked in, 1 ticket issuance/passenger checked in 28 baggage checked passenger not checked in, 28 baggage checked passenger not checked in, 28 baggage checked passenger passed security check, 5 Passenger passed security check, 5 Passenger passed security check, 5 Passenger passed security check, 5 Passenger passed gate exit (coupon used), 6 Transit, 7 Standby, Seat Number not primed on Boarding pass at time of theck-in, (Seat and number to be primed at time of seat assignment), 8 Boarding data revalidation done (Gate, Boarding Time and Seat on Revalidation Field already used.) 9 Original boarding time used a time of ticket issuance. A Up- or down-grading required at 10 seo out, e.g. when passenger waitlisted in C class and OK in Y class.
17	Compartment Code	Optional at time of ticket issuance - See Resolution 728 for list of codes	e.g. F (First Class), J (Business Class Premium), Y (Economy/Coach)
22	International Documentation Verification		O travel document verification not required, 1 travel document verification required, 2 travel document verification performed
42	Frequent Flyer Number	2 character or 3 letter airline designator followed by up the 13 numerics or alpha-numerics, or 16 numerics if the FFN is 16 digits	
49	Passenger Description		O adult, 1 Male, 2 Fernale, 3 child, 4 infant, 5 no passenger (cabin baggage), 6 adult tavelling with infant, 7 unaccompanied minor, 8–9 Future industry use, A–5 Future industry use.
53	ID/AD Indicator	Industry discount ticket (see Recommended Practice 1788):	"0". IDN1 positive space, "1". IDN2 Space available, 2 IDB1 Positive space, 3 IDB2 Space available, 4 AD, 5 DG, 6 DM, 7 GE, 8 IG, 9 RG, A UD, 8 ID—Industry discount not followed any classification, C IDFS1, D IDFS2, E IDR1, FIDS, 0.5 for future industry use
92	From City Airport Code - To City Airport	Elements 26 and 38 are Airport/City codes concerning the segment covered by the document in hand	
59	Free Baggage Allowance	See Resolution 722 - example: "20K"	"K":kilos, "L": pounds, "PC": pieces
65	Electronic Ticket Indicator		"E": Boarding pass issued against an Electronic Ticket
2 4	Number of Leas Encoded	Minimum 1 segment, Maximum 4 segments to limit the size of the bar code	2 or 4
٥	PNR Code	operating carrier, independent of code-share or lease or other issues	1,00,00
ਰ	Field size of variable size field (Conditional + Airline item 4)	Size of data used within the subsequent conditional and airline individual fields (tem 8 to 118, plus item 4), in ASCII-printed hexadecimal. If not used, enter "00"	
Φ -	For individual airline use Version number	Optional, whose data length must be given in the previous filed value Version of the structured message of the M format	
0	Field size of following structured message - unique		"90" to "FF"
ء د	Source of check-in	Where the check-in was initiated	"W": Web, "K": Airport Kiosk, "R": Remote or Off Site Kiosk, "M": Mobile Device, "O": Airport Agent, "T": Town Agent, "V": Third Party Vendor
_	Source of Boarding Pass Issuance	Where the Boarding Pass was issued	W- Web Printed / K. Airport Klosk Printed / X Transfer Klosk Printed / R Remote or Off Site Klosk Printed / M Mobile Device Printed / O Airport Bear Printed / T. Town Agent Printed / V Third Party Vendor Printed / Blank - Unable to support
	Document Type Field size of following structured message	Boarding Pass or Itinerary Receipt Size of data used within the subsequent fields (item 142 to 118), in ASCII- northed have advanted if not used enter no	"B". Boarding Pass, "": Itinerary Receipt
<u>-</u>	Selectee indicator	אווויסט ויסטים ווויין ווסן מסכמי סוונסן סס	"1": selectee, "0": not selectee
E 9	Marketing carrier Designator	Airline code of the marketing carrier	
: 0	Airline Designator of boarding pass issuer		
5	Length of Security Data	Size of data used within the subsequent security field (item 30), in ASCII- pize of data used within the subsequent security field (item 30), in ASCII-	"00" to "FF"
	Security Data	Digital signature generated according to the rules of the country where the foarding pass is used. All the data prior to the signature field (including items 10 to 4 excluding items 25 to 29) should be signed.	

29TH EDITION, JUNE 2009 765



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Airline Coding Directory - ACD

This reference contains all airline designators, three-digit airline numeric codes and location identifiers. It also includes ISO currency, country codes, minimum connecting time, coordinators and airlines applying reconfirmation procedures and Numeric Location Type Code.

Multilateral Interline Traffic Agreements Manual – MITA

This reference contains the passenger and cargo Interline Agreements that spell out which airlines have agreements and the basic rules airlines follow when collecting money and issuing documents for carriage on each others services.

Reservations Interline Message Procedures – AIRIMP

This reference contains universally agreed upon communications standards for the handling of Passenger Reservations Interline Messages. These standards are used in millions of transactions between Travel Agency and Airline systems and by Airline to Airline systems.

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