

# **PARAMETRIC BAGGAGE TAG DATA CONCEPT**

**Revised Edition 2007**

Document Number AEABTP\_01.DOC

Last update: 15.March 2007

AEA/TS

## Abstract

# PARAMETRIC BAGGAGE TAG DATA CONCEPT

Revised:	27 February	1986	Original Issue 5/86	
	22 March	1988	Approved	
	19 January	1989	Rev. 2	p.5, p7, p11
	26 July	1989	Rev. 3	p.5
	03 July	1990	ATB 1	
	15. April	1991	Rev. 3	p.6, p.11
	18 September	1991	Approved	p.7
	01 March	1993	Rev. 5	p. 5
	06 September	1993	Rev. 6	p.10
	21 December	1993	Approved	p.10
	01 October	1994	Rev. 7	Logo/Format Code expansion
	01 November	1994	Approved	
	06 June	1995	Rev. 8	p.1, p.3. p.4, p.13
	06 November	1995	Approved	
	22 November	1999	Rev. 9 Approved	p.4 code 128
	21 <sup>st</sup> June	2001	Rev.10 Approved	colour printing, colour status, general status added, 2.2.3. code choice 7 deleted, 5.3.1 and 5.5.1 Note added
	26 August	2002	Rev. 11	2.2.3. barcode choice 7 added again, Note changed (same as ATB).
21 <sup>st</sup> June	2006	Rev. 12	Chapter 9, 10 & 11 added BS, AV & CT commands 5.1. clarified pex logo	
15.March	2007	Rev. 13	RFID capabilities added in pectab & printing, SC, RC commands, Annex A&B	

*This document has been produced by the AEA Technical Group (ATG):*  
**AIR FRANCE, BRITISH AIRWAYS, KLM, LUFTHANSA, SWISS AND BRUSSELS AIRLINES**

## **Table of Contents**

1.DEFINITION OF THE PARAMETRIC BAG TAG DATA CONCEPT .....	1
RFID AUTO MODE.....	1
2.THE TABLE.....	2
2.1.Layout of the Header of the Table .....	2
2.1.1.Header .....	2
2.1.2.Table Number .....	2
2.1.3.Table Version .....	2
2.1.4.Continuation Character .....	2
2.1.5.Auto Increment Field Length.....	3
2.1.6.Colour Character.....	3
2.1.7.Tag Width.....	3
2.1.8.Mirror Point.....	3
2.1.9.Element Reference Character .....	3
2.1.10.Separator Character.....	3
2.2.Structure of the Body of the Table (element descriptor) .....	3
2.2.1.Element Number .....	4
2.2.2.Element Type.....	4
2.2.3.Element Choice.....	4
2.2.4.Mirror Indicator .....	4
2.2.5.Orientation/Video .....	5
2.2.6.Position vertical .....	6
2.2.6.1. Example of RFID Data.....	6
2.2.7.Position horizontal .....	6
2.2.8.Size Height .....	7
2.2.9.Size Width .....	7
2.2.9.1. Listing of Barcodes for Pectabs.....	7
2.2.9.2.Example of Barcode Definition.....	8
2.2.10.Common Data.....	9
2.2.10.1. Example of Common Data (incl. reference character).....	9
2.2.11. Colour printing.....	10
2.2.12. Definition of coordinates.....	11
2.2.13.Example of the structure of a Table .....	13
3.PECTAB down line loading .....	15
3.1.The table load function.....	15
3.1.1.Example of the PECTAB load message.....	15
3.2.Confirmation of PECTAB load message.....	16
3.2.1.Example of a confirmation message after a successful PECTAB load.....	16
3.2.2.Example of a confirmation message after an unsuccessful PECTAB load .....	16
3.2.3.Example of a confirmation message after an unsuccessful PECTAB load .....	16
3.3.The PECTAB cancellation function.....	16
3.3.1.Example of a confirmation of cancellation of PECTAB(s).....	17
3.3.2.Example of a confirmation when PECTAB buffer contains no PECTAB(s) .....	17
3.4.The Pectab Status request.....	17
3.4.1.Example of a response on a status request .....	17
3.5.Illogical command.....	17
3.5.1.Example of an ERR2 message.....	17
4.BAG TAG PRINTING.....	18
4.1.Name of the Tag Data .....	18
4.2.Method .....	18
4.3.Bag Tag Data Message Concept .....	18
4.4.Examples of bag tag data message.....	19
4.4.1.Example 1.....	19

## **PARAMETRIC BAGGAGE TAG DATA CONCEPT**

4.4.2.Example 2 (message with use of the continuation character).....	20
4.5.Messages from the BTP to the host.....	20
4.5.1.Example of message 1 (print ok) .....	21
4.5.2.Example of Successful Print/Encode Message with RFID Void indicator .....	21
4.5.3.Various Examples of Successful Print/Encode Message with RFID Void indicator .....	21
4.5.3.1. Successful Print message - SC command set to J0 L0.....	21
4.5.3.2. Successful Print message - SC command set to J0 L1 .....	21
4.5.3.3. Successful Print message - SC command set to J1 L0.....	22
4.5.3.4. Successful Print message - SC command set to J1 L1 .....	22
4.5.3.5. Successful Print message - SC command set to J1 L1 – Intermediate Acknowledgement.....	22
4.5.3.6. Successful Print message - SC command set to J1 L1 – Intermediate Acknowledgement with Paper out inbetween.....	22
4.5.3.7. Partly Successful Print message - SC command set to J1 L1 – Intermediate Acknowledgement & too many voided tags.....	22
4.5.4.Example of message 2 (illogical command).....	22
4.5.5.Examples of message 3 (incorrect field detected).....	23
4.5.6.Example of message 5 (unsuccessful print).....	23
4.5.6.1.Example of message 5 (unsuccessful print) .....	23
4.5.6.2.Example of message 5 (unsuccessful print) – Paper out with voided bagtags.....	24
4.5.6.3.Example of message 5 (unsuccessful print – voids exceeds parameter) RFID .....	24
4.5.6.4.Example of message 5 (voids exceeds parameter) RFID – SC command set J1 .....	24
4.5.6.5.Example of message 5 (voids exceeds parameter) RFID – SC command set L1 .....	24
4.5.6.6.Example of message 5 (voids exceeds parameter) RFID – SC command set J1 L1.....	25
4.5.7.Example of message 6 (PECTAB not available).....	25
5.LOGO down line loading .....	26
5.1.Name of the LOGO data.....	26
5.2.The LOGO load function.....	26
5.2.1.Example of the LOGO load request.....	26
5.3.Confirmation of a LOGO load request.....	26
5.3.1.Example of a confirmation message after an successful LOGO load .....	27
5.3.2.Example of a confirmation message after an unsuccessful LOGO load .....	27
5.3.3.Example of a confirmation message after an unsuccessful LOGO load .....	27
5.4.The LOGO cancellation function.....	27
5.4.1.Example of a confirmation of cancellation of LOGO(s).....	27
5.4.2.Example of a confirmation when BTP contains no LOGO(s).....	27
5.5.The LOGO status request .....	28
5.5.1.Example of a response on a status request .....	28
5.6.Illogical command.....	28
5.6.1.Example of an ERR2 message.....	28
6.Colour status .....	29
6.1. Colour status request .....	29
6.2.Example of a response on a colour status request .....	29
7.PROGRAM down line loading.....	30
7.1.Method .....	30
7.2.Name of the PROGRAM data .....	30
7.2.1.The PROGRAM load function .....	30
7.2.1.1.Example of the PROGRAM load request .....	30
7.2.2.Confirmation of a PROGRAM load request .....	31

## **PARAMETRIC BAGGAGE TAG DATA CONCEPT**

7.2.2.1.Example of a confirmation message after an successful PROGRAM load.....	31
7.2.2.2.Example of a confirmation message after an unsuccessful PROGRAM load.....	31
7.2.3.The program delete function.....	31
7.2.3.1.Example of a response on a delete program request.....	31
7.3.The PROGRAM-version request.....	32
7.3.1.Example of a response on a prom version request.....	32
8. General status request.....	33
8.1.Example of a response on a general status request.....	33
9. Bin / Paper status request.....	34
9.1. Example of a response on a bin/paper status request.....	34
10. AEA version request.....	34
10.1. Example of a response on an AEA version request.....	34
11.The Hardcoded transaction code load function.....	35
11.1.Example of confirmation of TRANSACTION CODE load function.....	35
12. Bagtag Printer Set RFID Configuration.....	36
12.1.Set RFID configuration command.....	36
12.1.1.Example 1 of the Set RFID configuration command (all parameters).....	37
12.1.2.Example 2 of the Set RFID configuration command (Julian Date).....	37
12.1.3.Example 3 of the Set RFID configuration command (Time&Application ID).....	37
12.1.4.Confirmation of a Set RFID configuration command.....	38
12.2.Reset RFID configuration command.....	38
12.2.1.Example of a response on a Reset RFID configuration command.....	38
12.3.Errors to the Set RFID configuration command.....	38
12.3.1.Example 1 of an error response on a Set RFID configuration command.....	38
12.3.2.Example 2 of an error response on a Set RFID configuration command.....	38
12.3.3.Example 3 of an error response on a Set RFID configuration command.....	39
12.3.4.Example 4 of an error response on a Set RFID configuration command.....	39
12.3.5.Example 5 of an error response on a Set RFID configuration command.....	39
13. Bagtag Printer Configuration Query.....	40
13.1.Example of a Printer Configuration query response.....	40
Annex A: Explanation RFID encoding Structure according ISO.....	41
Annex B : Summary of Bagtag Printer Messages.....	42