Honeywell

Easy*Parse* for Boarding Passes

Total*Freedom*™ Formatting Plug-In

Integration Guide

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Patents

For patent information, please refer to www.honeywellaidc.com/patents.

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Introduction

Overview

Honeywell's Easy*Parse* for Boarding Passes software plug-in parses bar code data found on IATA Airline tickets for specific field information such as passenger name, date of journey, flight number etc. Easy*Parse* for Boarding Passes may be purchased pre-installed on select Honeywell area-imaging products or purchased as a standalone upgrade.

The following products support the Easy*Parse* for Boarding Passes software plug-in.

- Xenon 1900
- Xenon 1902
- Vuquest™ 3310g
- N5600

Note: Honeywell cannot be held responsible for Airline tickets that do not comply with the formatting standards set forth by IATA for Bar Coded Boarding Pass.

Getting Started

EasyParse for Boarding Passes Software Installation

Note: Honeywell products ordered with EasyParse for Boarding Passes do not require software installation or software activation. Skip to page 4 for instructions on how to enable the software plug-in.

Items required for Easy*Parse* for Boarding Passes installation:

- A computer with access to the internet
- The imager's User's Guide
- The firmware upgrade cable specified in the imagers User's Guide
- EZConfig-Scanning software, downloadable at no additional cost from www.honeywellaidc.com

The following installation procedure is not applicable for imagers that do not support firmware updates through EZConfig-Scanning download feature. Consult the imager's User's Guide to verify the capabilities of the imager before proceeding.

To install the Easy*Parse* for Boarding Passes software plug-in:

1. Download and save the Easy*Parse* for Boarding Passes ◈ plug-in trial software available at www.honeywellaidc.com.
2. Consult the imager's User's Guide for information on the specific cable required for firmware updates.
3. Connect the cable to the imager and an available RS232 serial or USB port on the host system.
4. Start the EZConfig-Scanning software. Click on the *Help* file in the menu bar. Select *Help Topics* and follow the steps under *Connecting to a Device*.
5. In the Application Explorer, select Download. In the Main Workspace, click on the "…" button to browse for the Easy*Parse* for Boarding Passes flash image file (*.moc.) Click on the Download to Device button.

◈ *The free trial version of EasyParse for Boarding Passes has unlimited trials, however inserts "X" characters in the data stream. To prevent "X" characters from appearing in the transmitted data stream, a full EasyParse for Boarding Passes license must be purchased. Contact customer service for more information on how to purchase an EasyParse for Boarding Passes license. See page 57 for contact information.*

6. After the firmware has been downloaded to the imager, scan the Save Custom Defaults bar code in the User's Guide.

7. To activate Easy*Parse* for Boarding Passes software, scan the *Activate Plug-in* bar code followed by the *Reset* bar code:

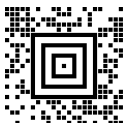Activate Plug-in

PLGFOE1;PLGFONEasyBCBPConf.

Reset

RESET_.

EasyParse for Boarding Passes Software Activation

A license key is required to activate the full version of Easy*Parse* for Boarding Passes. Contact a customer service representative for information on purchasing a licensing key. Regional contact information is on page 57.

To Enable EasyParse for Boarding Passes Software Plug-In
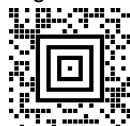
Scan the **Enable Easy*Parse* for Boarding Passes** bar code to enable the Easy*Parse* for Boarding Passes software plug-in.

* Enable Easy*Parse* for Boarding Passes

9902A0020#ENABLE#.

Disable Easy*Parse* for Boarding Passes

9902A0020#DISABLE#.

*   *Factory Default.*

Data Transmission Configuration

Before starting the configuration process, identify the necessary data fields required for the application and the order with which the data must be transmitted to the electronic form or database.

The default format of parsing configuration is First Name [space] Last Name [tab] Departing City [tab] Arriving City [tab] Flight Number.

Configuration

To configure the imager for Programming Mode configuration:

1. Scan **Enter Programming Mode** bar code on page 6.

2. Scan the **Start Configuration** bar code on page 6.

3. Scan each required data field bar code in the order of the desired transmission sequence (pages 7 - 21), if necessary, desired formatting option (page 22) with desired separators for data fields (see pages 23 - 41.)

4. Scan the **End Configuration** bar code on page 6.

5. Scan **Exit Programming Mode** bar code on page 6.

Note: The bar codes must be scanned in this sequence. If scanned out of sequence the imager will razz and no action will be taken.

Example

John,13B:PHL-DTW,2/17

To configure the imager to transmit the data sequence above:

1. Scan the **Enter Programming Mode** bar code on page 6.

2. Scan the **Start Configuration** bar code on page 6.

3. Scan the **S1_Passengers Name** bar code followed by the **First Name** bar code, the **Comma** bar code, the **S1_Seat Number** bar code, the **Colon** bar code, the **S1_From City Airport Code** bar code the **Hyphen** bar code, the **S1_To City Airport Code** bar code, the **Comma** bar code, the **S1_Date of Journey** bar code and then the **MM/DD** bar code.

4. Scan the **End Configuration** bar code on page 6.

5. Scan the **Exit Programming Mode** bar code on page 6.

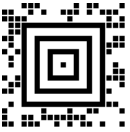*Figure 1. Example of Programming Mode Configuration*

Formatting Option Notes

Date and Passenger Name Data Fields have formatting options. Date formatting available options are MM/DD, MMDD and MM-DD. Passenger Name current formatting options are First Name and Last Name. If formatting is required, scan the data field bar code **followed by** the desired format for the field (see page 22.)

A *Tab* or *Space* in the Passenger Name on a boarding pass will be replaced with a *forward slant* (/.) The prefix of the *Tab* or *Space* is read as Last Name and the suffix is read as First Name. If there are two or more *Spaces*, the prefix of the first space is read as Last Name and suffix is read as First Name.

Enter/Exit Programming Mode Bar Codes
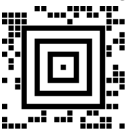
Enter Programming Mode

9902EntA0020.

Exit Programming Mode

99Exit.

Start/End Configuration Bar Codes

Start Configuration

9902#START#.

End Configuration

9902#END#.

Data Field Options for Programming Mode

The S1, S2, S3 or S4 prefixes in the Field Name represent segment identifiers for airline tickets that have multiple flight segments.

For detailed field descriptions, please refer to IATA Resolution 792.

Segment 1 Bar Codes		
Field Name	Menu Command	Programming Code
S1_Format Code	9902F00	
S1_Number of Legs Encoded	9902F01	
S1_Passenger Name	9902F02	
S1_Electronic Ticket Indicator	9902F03	
S1_Operating Carrier PNR Code	9902F04	

Field Name	Menu Command	Programming Code
S1_From City Airport Code	9902F05	
S1_To City Airport Code	9902F06	
S1_Operating Carrier Designator	9902F07	
S1_Flight Number	9902F08	
S1_Date of Flight (Julian Date)	9902F09	
S1_Compartment Code	9902F0A	
S1_Seat Number	9902F0B	

Field Name	Menu Command	Programming Code
S1_Check-in Sequence Number	9902F0C	
S1_Passenger Status	9902F0D	
S1_Beginning of Version Number	9902F0F	
S1_Version Number	9902F10	
S1_Passenger Description	9902F12	
S1_Source of Check-in	9902F13	
S1_Source of Boarding Pass Issuance	9902F14	

Field Name	Menu Command	Programming Code
S1_Date of Issue of Boarding Pass (Julian Date)	9902F15	
S1_Document Type	9902F16	
S1_Airline Designator of Boarding Pass Issuer	9902F17	
S1_Baggage Tag License Plate Number(s)	9902F18	
S1_Airline Numeric Code	9902F1A	
S1_Document Form/Serial Number	9902F1B	
S1_Selectee Indicator	9902F1C	

Field Name	Menu Command	Programming Code
S1_International Documentation Verification	9902F1D	
S1_Marketing Carrier Designator	9902F1E	
S1_Frequent Flyer Airline Designator	9902F1F	
S1_Frequent Flyer Number	9902F20	
S1_ID/AD Indicator	9902F21	
S1_Free Baggage Allowance	9902F22	
S1_For Individual Airline Use	9902F23	

Segment 2 Bar Codes		
Field Name	Menu Command	Programming Code
S2_Operating Carrier PNR Code	9902F24	
S2_From City Airport Code	9902F25	
S2_To City Airport Code	9902F26	
S2_Operating Carrier Designator	9902F27	
S2_Flight Number	9902F28	
S2_Date of Flight (Julian Date)	9902F29	

Field Name	Menu Command	Programming Code
S2_Compartment Code	9902F2A	
S2_Seat Number	9902F2B	
S2_Check-in Sequence Number	9902F2C	
S2_Passenger Status	9902F2D	
S2_Airline Numeric Code	9902F30	
S2_Document Form/Serial Number	9902F31	
S2_Selectee Indicator	9902F32	

Field Name	Menu Command	Programming Code
S2_International Documentation Verification	9902F33	
S2_Marketing Carrier Designator	9902F34	
S2_Frequent Flyer Airline Designator	9902F35	
S2_Frequent Flyer Number	9902F36	
S2_ID/AD Indicator	9902F37	
S2_Free Baggage Allowance	9902F38	
S2_For Individual Airline Use	9902F39	

Segment 3 Bar Codes		
Field Name	Menu Command	Programming Code
S3_Operating Carrier PNR Code	9902F3A	
S3_From City Airport Code	9902F3B	
S3_To City Airport Code	9902F3C	
S3_Operating Carrier Designator	9902F3D	
S3_Flight Number	9902F3E	
S3_Date of Flight (Julian Date)	9902F3F	

Field Name	Menu Command	Programming Code
S3_Compartment Code	9902F40	
S3_Seat Number	9902F41	
S3_Check-in Sequence Number	9902F42	
S3_Passenger Status	9902F43	
S3_Airline Numeric Code	9902F46	
S3_Document Form/Serial Number	9902F47	
S3_Selectee Indicator	9902F48	

Field Name	Menu Command	Programming Code
S3_International Documentation Verification	9902F49	
S3_Marketing Carrier Designator	9902F4A	
S3_Frequent Flyer Airline Designator	9902F4B	
S3_Frequent Flyer Number	9902F4C	
S3_ID/AD Indicator	9902F4D	
S3_Free Baggage Allowance	9902F4E	
S3_For Individual Airline Use	9902F4F	

Segment 4 Bar Codes		
Field Name	Menu Command	Programming Code
S4_Operating Carrier PNR Code	9902F50	
S4_From City Airport Code	9902F51	
S4_To City Airport Code	9902F52	
S4_Operating Carrier Designator	9902F53	
S4_Flight Number	9902F54	
S4_Date of Flight (Julian Date)	9902F55	

Field Name	Menu Command	Programming Code
S4_Compartment Code	9902F56	
S4_Seat Number	9902F57	
S4_Check-in Sequence Number	9902F58	
S4_Passenger Status	9902F59	
S4_Airline Numeric Code	9902F5C	
S4_Document Form/Serial Number	9902F5D	
S4_Selectee Indicator	9902F5E	

Field Name	Menu Command	Programming Code
S4_International Documentation Verification	9902F5F	
S4_Marketing Carrier Designator	9902F60	
S4_Frequent Flyer Airline Designator	9902F61	
S4_Frequent Flyer Number	9902F62	
S4_ID/AD Indicator	9902F63	
S4_Free Baggage Allowance	9902F64	
S4_For Individual Airline Use	9902F65	

Security Data Bar Codes		
Field Name	Menu Command	Programming Code
Beginning of Security Data	9902F66	
Type of Security Data	9902F67	
Length of Security Data	9902F68	
Security Data	9902F69	

Formatting Options for Select Data Fields

Passenger Name		
First Name	9902X10	
Last Name	9902X11	
Date of Flight / Date of Issue of Boarding Pass		
MM/DD	9902X00	
MMDD	9902X01	
MM-DD	9902X02	

Separators for Programming Mode

Field Name	Menu Command	Programming Code
Line Feed	9902S0A	
Vertical Tab	9092S0B	
Horizontal Tab	9902S09	
Carriage Return	9902S0D	
Space " "	9902S20	
Comma ","	9902S2C	

Field Name	Menu Command	Programming Code
NULL	9902S00	
Start of Header	9902S01	
Start of Text	9902S02	
End of Text	9902S03	
End of Transmission	9902S04	
Enquiry	9902S05	
Acknowledge	9902S06	

Field Name	Menu Command	Programming Code
Bell	9902S07	
Backspace	9902S08	
Form Feed	9902S0C	
Shift Out	9902S0E	
Shift In	9902S0F	
Data Link Escape	9902S10	
Device Control 1	9902S11	

Field Name	Menu Command	Programming Code
Device Control 2	9902S12	
Device Control 3	9902S13	
Device Control 4	9902S14	
Negative ACK	9902S15	
Synchronous Idle	9902S16	
End of Text Block	9902S17	
Cancel	9902S18	

Field Name	Menu Command	Programming Code
End of Medium	9902S19	
Substitute	9902S1A	
Escape	9902S1B	
File Separator	9902S1C	
Group Separator	9902S1D	
Record Separator	9902S1E	
Unit Separator	9902S1F	

Field Name	Menu Command	Programming Code
Exclamation Point "!"	9902S21	
Quotation Mark ""	9902S22	
Cross Hatch "#"	9902S23	
Dollar Sign "$"	9902S24	
Percent Sign "%"	9902S25	
Ampersand "&"	9902S26	
Closing Single Quote ""	9902S27	

Field Name	Menu Command	Programming Code
Opening Parentheses "("	9902S28	
Closing Parentheses ")"	9902S29	
Asterisk "*"	9902S2A	
Plus "+"	9902S2B	
Hypen "-"	9902S2D	
Period "."	9902S2E	
Forward Slant "/"	9902S2F	

Field Name	Menu Command	Programming Code
0	9902S30	
1	9902S31	
2	9902S32	
3	9902S33	
4	9902S34	
5	9902S35	
6	9902S36	

Field Name	Menu Command	Programming Code
7	9902S37	
8	9902S38	
9	9902S39	
Colon ":"	9902S3A	
Semi-Colon ";"	9902S3B	
Less Than Sign "<"	9902S3C	
Equals Sign "="	9902S3D	

Field Name	Menu Command	Programming Code
Greater Than Sign ">"	9902S3E	
Question Mark "?"	9902S3F	
At Sign "@"	9902S40	
A	9902S41	
B	9902S42	
C	9902S43	
D	9902S44	

Field Name	Menu Command	Programming Code
E	9902S45	
F	9902S46	
G	9902S47	
H	9902S48	
I	9902S49	
J	9902S4A	
K	9902S4B	

Field Name	Menu Command	Programming Code
L	9902S4C	
M	9902S4D	
N	9902S4E	
O	9902S4F	
P	9902S50.	
Q	9902S51	
R	9902S52	

Field Name	Menu Command	Programming Code
S	9902S53	
T	9902S54	
U	9902S55	
V	9902S56	
W	9902S57	
X	9902S58	
Y	9902S59	

Field Name	Menu Command	Programming Code
Z	9902S5A	
Opening Square Bracket "["	9902S5B	
Reverse Slant "\"	9902S5C	
Closing Square Bracket "]"	9902S5D	
Caret "^"	9902S5E	
Underscore "_"	9902S5F	
Opening Single Quote "`"	9902S60	

Field Name	Menu Command	Programming Code
a	9902S61	
b	9902S62	
c	9902S63	
d	9902S64	
e	9902S65	
f	9902S66	
g	9902S67	

Field Name	Menu Command	Programming Code
h	9902S68	
i	9902S69	
j	9902S6A	
k	9902S6B	
l	9902S6C	
m	9902S6D	
n	9902S6E	

Field Name	Menu Command	Programming Code
o	9902S6F	
p	9902S70	
q	9902S71	
r	9902S72	
s	9902S73	
t	9902S74	
u	9902S75	

Field Name	Menu Command	Programming Code
v	9902S76	
w	9902S77	
x	9902S78	
y	9902S79	
z	9902S7A	
Opening Curly Bracket "{"	9902S7B	
Vertical Line "|"	9902S7C	

Field Name	Menu Command	Programming Code
Closing Curly Bracket "}"	9902S7D	
Tilde "~"	9902S7E	
DEL	9902S7F	

Configuration Utility

Easy*Parse* for Boarding Passes can also be configured using Honeywell's Easy*Parse* for Boarding Passes Configuration Utility. This utility can generate bar codes to configure the plug-in alone, delays alone and both plug-in and delays in a single bar code.

To configure using the Easy*Parse* for Boarding Passes Configuration Utility:

1. Start the Easy*Parse* for Boarding Passes Configuration Utility.

2. Select the desired Data Field or Separator from the list boxes. Click on the *Insert* button (>>) or double click on the item to add it to the Data Output Format list box.

3. The Separator Fields list box can be extended to show all supported ASCII characters by checking the Show All Separators box.

4. Formatting options are available for Passenger Name and Date data fields. Select either of these fields and the options are displayed in the Data Format list box. To select a Data Format, click on desired option. To deselect, double click on the option.

5. To move a selected field in the Data Output Format list box, click on the *Move Up* or *Move Down* buttons until the field has been moved to the desired location.

6. To remove a selected field in the Data Output Format list box, click on the *Remove* button (<<.)

7. To configure a delay after a separator, select the Separator from the Separator dropdown list. Enter the delay amount in milliseconds. (The delay must be in multiples of 5, starting from 5ms up to and including 5000ms.)

8. The Data Output Format list box and Configure Delays section can be cleared by clicking on the *Clear All* button.

9. To create a bar code from the Data Output Format list box and/or delays, click on the *Generate Barcode* button. A second window will appear with the bar code displayed. To save the bar code, click on the *Save* button. The bar code will be saved as an html file. To print the bar code, click on the *Print* button.

10. The selected configuration that includes Data Output Format list box and delays can also be saved into a file. Click on *Save to File* button and select the location to save then click on the *Save* button. The configuration will be saved as an xml file.

11. To generate a bar code from a Saved to File configuration, select *Load from File* button. Select file, then click on the *Open* button. The saved configuration will populate in the Data Output Format list box and Configure Delays section. To generate a bar code, follow step number 9.

12. To complete the configuration, scan the generated bar code.

Inserting Delays between Fields

Delays can be introduced in the data transmission using Data Formatter. The Data Formatting string can be sent as a serial command, built in a menu code, or created in EZConfig-Scanning. Follow input format needed as outlined in the imager's User's Guide available at www.honeywellaidc.com.

The EF command in the system data formatter will insert a delay between fields in the output.

To test the delay follow these steps:

1. Setup Easy*Parse* for Boarding Passes to output data as S1_Format Code [Horizontal Tab] S1_Flight Number.

2. For a delay after S1_Format Code, send the following data format string to the scanner:

   DFMBK30124999999F30900EF1000F100.

   The breakdown of the command line is shown below:

DFMBK3	inform the scanner the following string is data format
0	primary data format
124	terminal interface to apply data format. 124 = USB keyboard wedge
99	symbology ID (99 is a wildcard for all symbologies.)
9999	length of bar code to apply data format (9999 is a wildcard for all lengths.)
F30900	sends out all data up to but not including the 09 [horizontal tab] character, followed by 00 [null]
EF1000	inserts a delay of 5000ms (1000 x 5ms)
F100	sends the remainder data from the current virtual pointer position
.	informs scanner to save data to non-volatile flash.

3. The output will be S1_Format Code, a delay of 5000ms, horizontal tab, then S1_Flight Number.

Note: The system data formatter is based on the position of the virtual pointer in the data buffer.

The EF delay command will only work with keyboard interfaces, i.e. USB keyboard or PS/2 keyboard. It will not work with any other interface.

Version Identification

Scan the bar code below to transmit what version of Easy*Parse* for Boarding Passes software the imager is running.

Transmit Easy*Parse* for Boarding Passes Version

Note: If the characters @#$EasyBCBPVersion$#@. are transmitted when the bar code is scanned, then the unit is not equipped with the EasyParse for Boarding Passes software plug-in.

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