

Barcode Specifications

Background

USCIS has implemented a 2D (two-dimensional) barcode on each page of selected forms that can be used to replace form data entry.

Not every piece of data that the user entered on the form is included in the barcode or appears in the barcode exactly as entered on the form.

- Data entered "by hand" (i.e., handwritten onto the form rather than entered by computer) will not be reflected in the barcode.
- Some data that the user has entered via computer on the form is not captured in the barcode at all.
- Some fields entered on the form by computer are represented in the barcode as combined or altered.

Data is encoded in the barcode in a specific format that allows the data to be parsed (separated) into distinct fields.

- Vertical bars ('| ') denote the end of each field in the text string. This includes the last field in the barcode.
- Defined fields that contain no data may be represented by two consecutive bars ('| | ') or by bars separated by any number of blank spaces (' | | | ').
- The end of line is not a field separator.
- Data within the barcode relates to data on the same physical page. No barcode contains data from a field entered on a different page.

There are three data fields included in the barcode that are not based on data entered by the applicant. These are the first three data fields in each barcode.

- Form type
- Form revision date
- Form page number

Technical characteristics

Barcode Type: PDF 417
Error Correction Length: 5
Module Height/Length: 2
Scanning Method: Document Scanner
Data Compaction: Byte Compaction (BC)

Barcode Measurements	Points	Inches
Module Width:	0.958pt	0.0133in
Actual Width of Barcode:	540pt	7.5in
Actual Height of Barcode:	108pt	1.5in

Note:

Print on a high resolution printer, either Laser or InkJet.



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Decoding

The decoded data contained in this example barcode looks like this:

I-90|12/29/14|1|11111111|2222222222|Family NameAAAAAAAAAAAAAAAAAAAA|Given NameAAAAAAA|Middle NameCCCCCC|N|
 |||In Care of NameAAAAAAAAAAAAAAAAAAAA|111 Street Number Nameaaa APT APT1|City or TownAAAAAAA|DC|11111|||USA|

This example barcode contains 20 fields:

- 1: I-90
- 2: 12/29/14
- 3: 1
- 4: 11111111
- 5: 2222222222
- 6: Family NameAAAAAAAAAAAAAAAAAAAA
- 7: Given NameAAAAAAA
- 8: Middle NameCCCCCC
- 9: N
- 10:
- 11:
- 12:
- 13: In Care of NameAAAAAAAAAAAAAAAAAAAA
- 14: 111 Street Number Nameaaa APT APT1
- 15: City or TownAAAAAAA
- 16: DC
- 17: 11111
- 18:
- 19:
- 20: USA



Application to Replace Permanent Resident Card

Department of Homeland Security
U.S. Citizenship and Immigration Services

USCIS
Form I-90
OMB No. 1615-0082
Expires 10/31/2017

For USCIS Use Only	<input type="checkbox"/> Applicant Interviewed	Receipt	Action Block
	Date:		
	Class of Admission		
	Remarks		

► **START HERE - Type or print in black ink.**

Part 1. Information About You

1. Alien Registration Number (A-Number)
 A-

1	1	1	1	1	1	1	1	1	1
---	---	---	---	---	---	---	---	---	---

2. USCIS ELIS Account Number (if any)
 ►

2	2	2	2	2	2	2	2	2	2
---	---	---	---	---	---	---	---	---	---

Your Full Name

NOTE: Your card will be issued in this name.

3.a. Family Name (Last Name)

3.b. Given Name (First Name)

3.c. Middle Name

4. Has your name legally changed since the issuance of your Permanent Resident Card?
 Yes (Proceed to **Item Numbers 5.a. - 5.e.**)
 No (Proceed to **Item Numbers 6.a. - 6.l.**)
 N/A - I never received my previous card. (Proceed to **Item Numbers 6.a. - 6.l.**)

Provide your name exactly as it is printed on your current Permanent Resident Card.

NOTE: Attach all evidence of your legal name change with this application.

5.a. Family Name (Last Name)

5.b. Given Name (First Name)

5.c. Middle Name

Mailing Address

6.a. In Care Of Name

6.b. Street Number and Name

6.c. Apt. Ste. Flr.

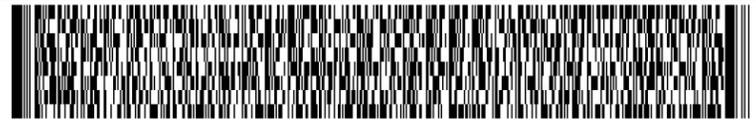
6.d. City or Town

6.e. State 6.f. ZIP Code

6.g. Province

6.h. Postal Code

6.l. Country



Form I-90 12/29/14 N
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There are decoding tools available online that can be used to test barcodes. Using your preferred search engine, enter "pdf417 decoding".