



ICAO

Doc 9303

Machine Readable Travel Documents

Seventh Edition, 2015

Part 4: Specifications for Machine Readable Passports (MRPs)
and other TD3 Size MRTDs



Approved by the Secretary General and published under his authority

INTERNATIONAL CIVIL AVIATION ORGANIZATION



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Part 4 — *Specifications for Machine Readable Passports (MRPs) and other TD3 Size MRTDs*
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1. SCOPE

The Seventh Edition of Doc 9303 represents a restructuring of the ICAO specifications for Machine Readable Travel Documents. Without incorporating substantial modifications to the specifications, in this new edition Doc 9303 has been reformatted into a set of specifications for Size 1 Machine Readable Official Travel Documents (TD1), Size 2 Machine Readable Official Travel Documents (TD2), and Size 3 Machine Readable Travel Documents (TD3), as well as visas. This set of specifications consists of various separate documents in which general (applicable to all MRTDs) as well as MRTD form factor specific specifications are grouped.

This Part 4 of Doc 9303 is based on the Sixth Edition of Doc 9303, Part 1, *Machine Readable Passports*, Volume.1 (2006).

Doc 9303, Part 4 defines specifications that are specific to TD3 size Machine Readable Passports (MRPs) and other TD3 size Machine Readable Travel Documents (MRTDs). For brevity the term MRP has been used throughout this document and, except where stated, all the specifications herein shall apply equally to all other TD3 size MRTDs. This document should be read in conjunction with:

- Part 1 — *Introduction*;
- Part 2 — *Specifications for the Security of the Design, Manufacture and Issuance of MRTDs*;
- Part 3 — *Specifications Common to all MRTDs*.

Together these specifications provide for global data interchange of MRTDs both by visual (eye readable) and machine readable (optical character recognition) means.

Additional specifications providing for global data interchange of electronic data in eMRPs and eMROTDs can be found in Doc 9303, Parts 9 through 12.

2. CONSTRUCTION AND DIMENSIONS OF THE MRP AND MRP DATA PAGE

2.1 Construction

The MRP shall take the form of a book consisting of a cover and a minimum of eight pages and shall include a data page onto which the issuing State or organization enters the personal data relating to the holder of the document and data concerning the issuance and validity of the MRP.

2.2 MRP Data Page Nominal Dimensions

The nominal dimensions shall be as specified in ISO/IEC 7810 (except thickness) for the TD3 size MRTD, i.e.:

88.0 mm ± 0.75 mm × 125.0 mm ± 0.75 mm (3.46 in ± 0.03 in × 4.92 in ± 0.03 in).

2.3 MRP Data Page Edge Tolerances

The edges of the data page following final preparation shall be within the area circumscribed by the concentric rectangles as illustrated in Figure 1.

Inner rectangle: 87.25 mm × 124.25 mm (3.44 in × 4.89 in)

Outer rectangle: 88.75 mm × 125.75 mm (3.49 in × 4.95 in)

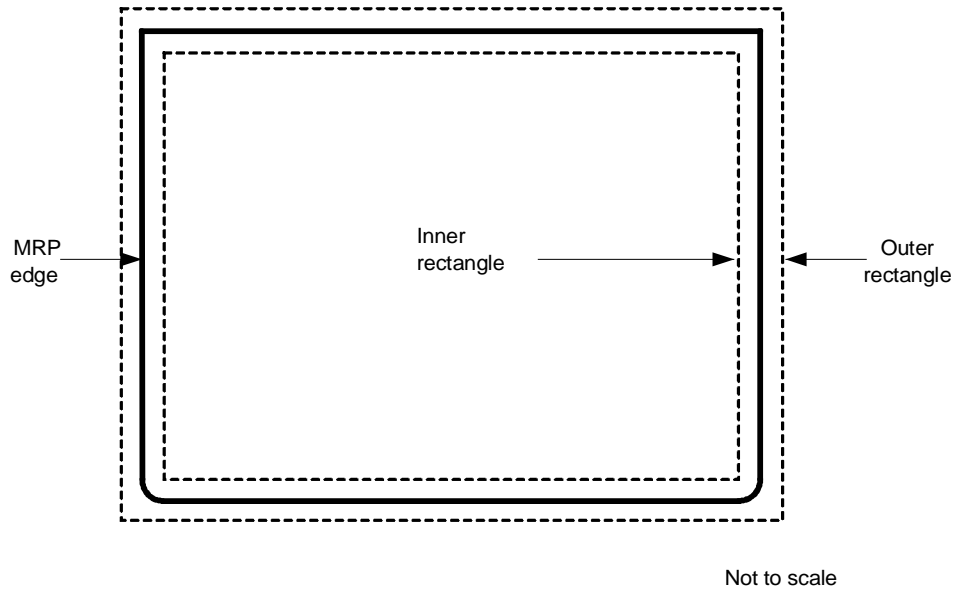


Figure 1. MRP data page dimensional illustration

2.4 MRP Data Page Margins

The dimensional specifications refer to the outer limits of the MRP data page. A margin of 2.0 mm (0.08 in) along the left and right hand edges and top edge must be left clear of data, as shown in Figure 2. The position of data in the machine readable zone is as shown in Figure 3.

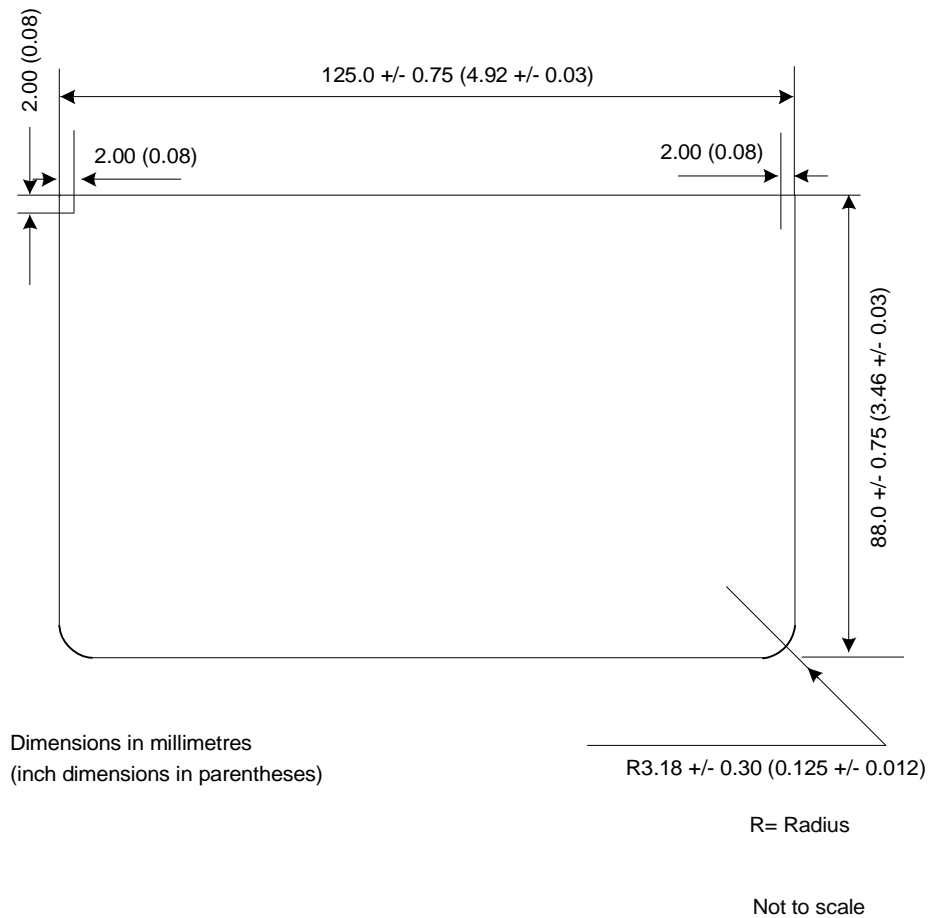


Figure 2. Edge margins of the MRP data page

2.5 MRP Data Page Thickness

The thickness, including any final preparation (e.g. laminate), shall be as follows:

- Minimum:

No minimum thickness is specified. However, States are advised that currently available materials are unlikely to provide an adequately robust data page if the thickness is below 0.15 mm (0.006 in);

- Maximum:

0.90 mm (0.035 in).

The thickness of the area within the machine readable zone shall not vary by more than 0.10 mm (0.004 in).

General note.— The decimal notation in these specifications conforms to ICAO practice. This differs from the ISO practice, which is to use a decimal point (.) in imperial measurements and a comma (,) in metric measurements.

2.6 MRP Dimensions

The dimensional specifications defined in Paragraphs 2.2 to 2.3 above also apply to the MRP book. If required for binding purposes, the 88.0 mm (3.46 in) dimension may be increased.

3. GENERAL LAYOUT OF THE MRP DATA PAGE

The MRP data page follows a standardized layout to facilitate reading of data globally by visual and machine readable means.

The MRP data page should either be an inner page in close proximity to an end leaf of the MRP or form part of the cover of the MRP. Where the MRP data page is part of the cover, precautions must be taken to ensure that the endleaf/cover assembly combined with the means of personalization are together resistant to fraudulent attack, particularly by delamination of the cover structure. Where the MRP data page is not constructed as part of the cover, the recommended practice is to locate the MRP data page on page 2 or on the penultimate page of the MRP. The location of the MRP data page in any other position in the MRP will give rise to problems for document examiners in the operation of swipe readers reading the MRZ. The MRZ shall be positioned adjacent to the outside long edge of the book, parallel to the spine of the book (see Figures 3 and 4).

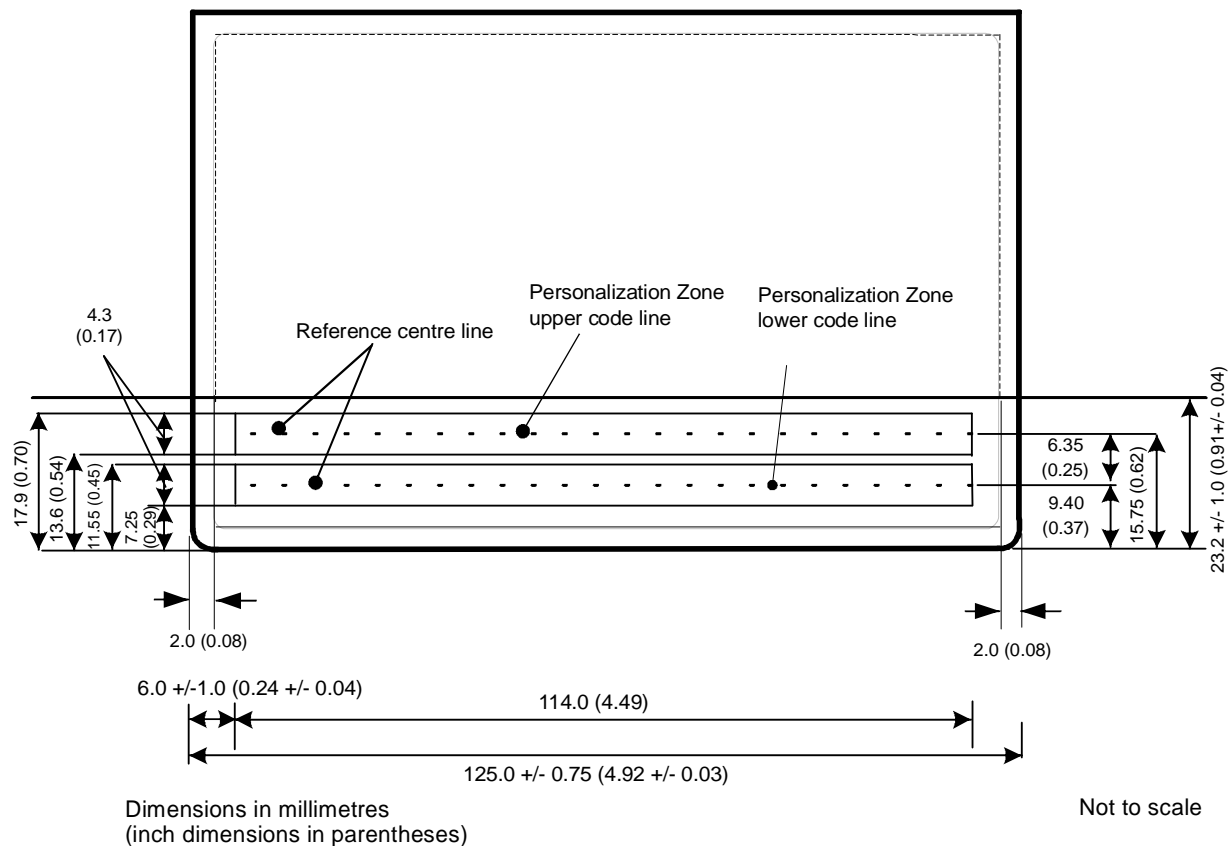


Figure 3. Schematic diagram of the Machine Readable Zone (MRZ)

3.1 MRP Zones

To accommodate the various requirements of States' laws and practices and to achieve the maximum standardization within those divergent requirements, the MRP data page is divided into seven zones as follows:

3.1.1 Front of MRP data page

Zone I	Mandatory header
Zone II	Mandatory and optional personal data elements
Zone III	Mandatory and optional document data elements
Zone IV	Mandatory holder's signature or usual mark (original or reproduction)
Zone V	Mandatory identification feature
Zone VII	Mandatory machine readable zone (MRZ)

3.1.2 Back of MRP data page, or an adjacent page

Zone VI	Optional data elements
---------	------------------------

3.2 Content and Use of Zones

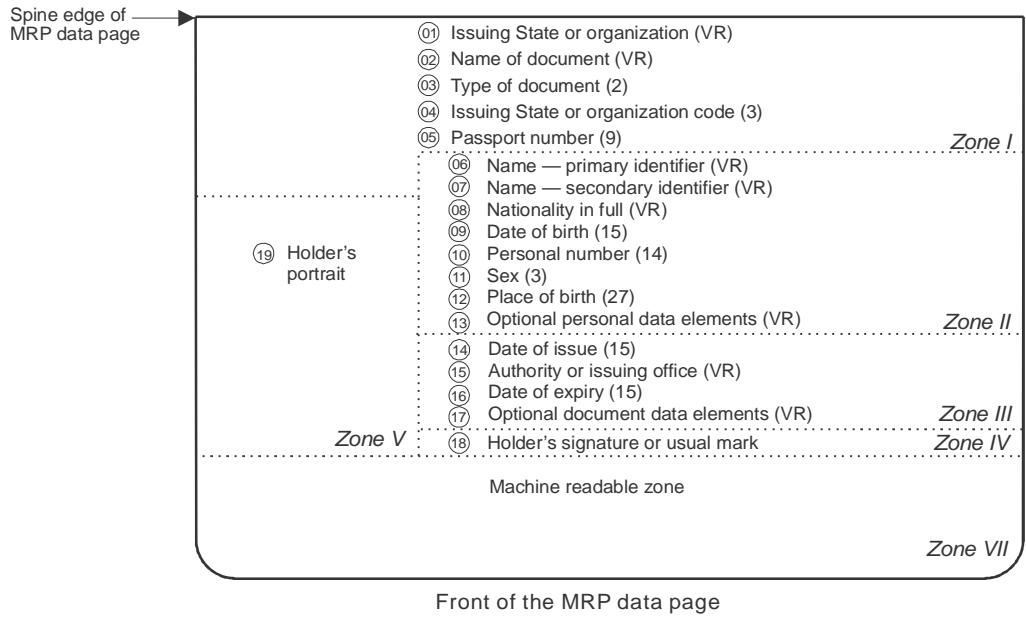
Zones I to V, which, together with Zone VI, form the Visual Inspection Zone (VIZ), and Zone VII, which is the Machine Readable Zone (MRZ), contain mandatory elements in a standard sequence which represent the minimum requirements for the MRP data page. The optional elements in Zones II, III and VI accommodate the diverse requirements of issuing States or organizations, allowing for presentation of additional data at the discretion of the issuing State or organization, while achieving the desired level of standardization. The location of zones and standard sequence for data elements are set out in Figure 4. The technical specifications for the printing of data on the MRP data page are defined in Section 4. Figures 8, 9 and 10 outline the guidelines for positioning and adjusting the dimensional specifications of Zones I to V to accommodate the flexibility desired by issuing States or organizations. Some examples of personalized MRP data pages are shown in Appendix A.

3.2.1 Zone IV — Location of holder's signature or usual mark

Field 18, the holder's signature or usual mark (or a reproduction thereof), shall normally be placed in Zone IV of the MRP data page (see Figure 4). Where the issuing State or organization wishes to locate the holder's signature or usual mark on a page other than the MRP data page, it may, as specified in the Data Element Directory, relocate Field 18 to Zone VI on the back of the MRP data page or to the page adjacent to the MRP data page. In this case, the size of adjacent fields in the visual zone on the MRP data page may be increased.

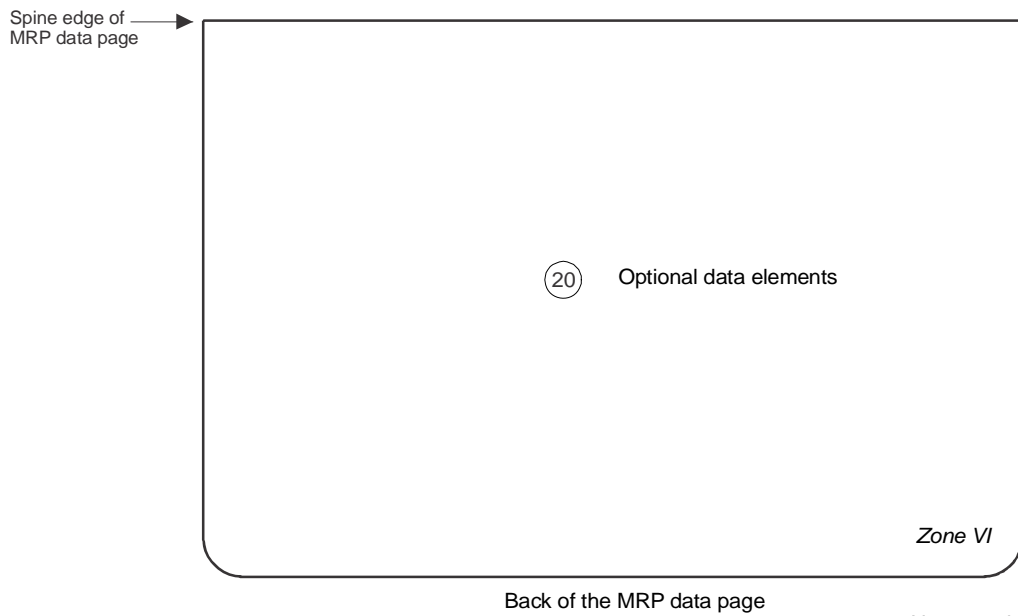
3.2.2 Zone V — Position of holder's portrait

Within Zone V, the holder's portrait shall be at least 2.0 mm (0.08 in) from the left-hand edge of the MRP data page. The use of affixed or stick-on portrait photos is not permitted and these shall not be used. Instead, the portrait image shall be integrated with the biodata page using a secure personalization technology.



Not to scale

Figure 4. Sequence of data elements on front side of MRP data page



Not to scale

Figure 5. Data elements on reverse side

Notes to Figures 4 and 5:

Note 1.— (VR) = variable number of characters in field.

Note 2.— (n) = the maximum or fixed number of characters allowed in the field.

Note 3.— O = indicates the field number.

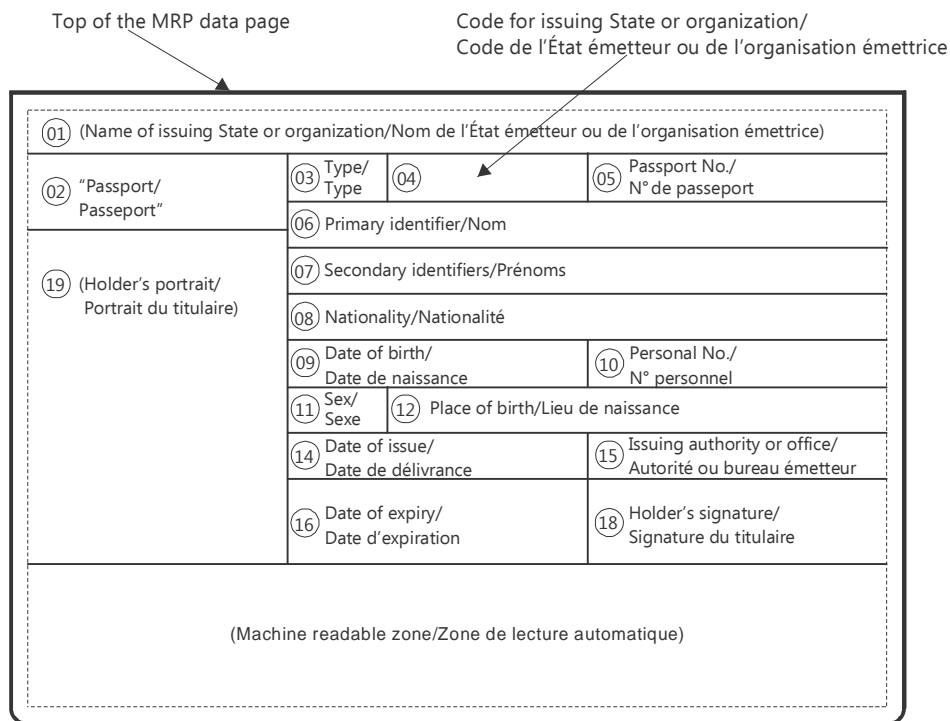
3.2.3 Data elements

The data elements to be included in the zones, the preparation of the zones and guidelines for the dimensional layout of zones shall be as described in Section 4 of this Part.

3.2.4 Mandatory zones

The MRP data page shall contain Zones I, II, III, V and VII. If the issuing State or organization's practice is to omit mandatory elements 01 and 02 (issuing State or organization, in full, and document, in full) from the header (Zone I), these data elements shall be placed on an adjacent or preceding page.

Zone IV shall be present either on the data page or on an adjacent page and contain the holder's signature or usual mark, i.e. original or reproduction. Alternatively, at the discretion of the issuing State or organization, the holder's signature may be located in Zone VI on the reverse side of the MRP data page. Zone V shall include the personal identification feature(s) which shall include a portrait solely of the rightful holder. At the discretion of the issuing State or organization, the name fields in Zone II and the holder's signature or usual mark in Zone IV may overlay Zone V provided this does not hinder recognition of the data in any of the three zones.



Not to scale

Note 1.— Optional data Fields 13 and 17 are excluded in the recommended practice.

Note 2.— Captions corresponding to the field names printed in the above illustration, except those within parentheses, shall be printed on the MRP data page.

Figure 6. Schematic of nominal layout of data elements

Data elements shall appear in a standard sequence as shown in Figures 4 and 5. Figure 6 is a schematic of the nominal layout of data elements on the front side of an MRP data page, and Figure 7 is a template for the position of the personalized data fields.

The dimensions and boundaries of Zone VII, the machine readable zone, are fixed. Zone VII conforms in height to the MRZ defined for all MRTDs so that the machine readable data lines fall within the effective reading zone (ERZ) specified in Doc 9303-3.

MRZ (Zone VII) data elements shall be as defined in Paragraph 4.2.2 and illustrated in Appendix B, Figure 15.

3.2.5 Optional data zone

Zone VI, which may be on the back of the data page or on an adjacent page, is a zone for optional data for use at the discretion of the issuing State or organization.

A template for the layout of personalized data elements on the front side of an MRP data page is shown in Figure 7.

3.3 Dimensional Flexibility of Zones I to V

Zones I to V may be adjusted in size and shape within the overall dimensional specifications of the MRP data page to accommodate the diverse requirements of issuing States or organizations. All zones, however, shall be bounded by straight lines, and all angles where straight lines join shall be right angles (i.e. 90 degrees). It is recommended that the zone boundaries not be printed on the MRP data page. The nominal position of the zones is shown in Figure 8.

When an issuing State or organization chooses to produce an MRP data page that contains a transparent or otherwise unprintable border, this will result in a reduction of the available area within the zones. The full MRP data page dimensions and zone boundaries shall be measured from the outside edge of this border, which is the external edge of the MRP data page.

Zone I shall be located along the top edge of the MRP data page and extend across the full 125.0 ± 0.75 mm (4.92 ± 0.03 in) dimension. (The top edge is the edge coincident with the spine of the MRP.) The issuing State or organization may vary the *vertical* dimension of Zone I, as required, but this dimension shall be sufficient to allow legible interpretation of the data elements in the zone and shall not be greater than 17.9 mm (0.70 in).

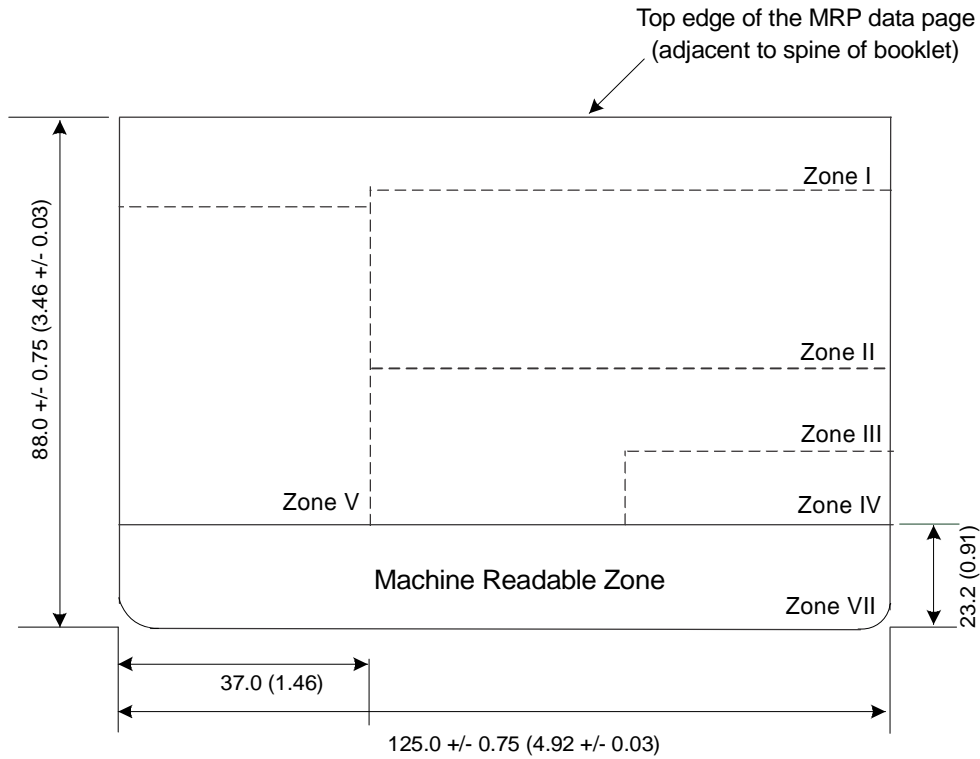
Zone V shall be located such that its left edge is coincident with the left edge of the MRP data page as shown in Figure 8. The dimensions of the portrait contained in Zone V are specified in Section 4.1.1.1, the Visual Data Element Directory, Field 19.

Zone V may move *vertically* along the left edge of the MRP data page and overlay a portion of Zone I as long as individual details contained in either zone are not obscured.

The upper boundary of Zone II shall be coincident with the lower boundary of Zone I.

When there is a specific requirement for the name fields to extend across the MRP data page, Zone II may extend up to the full 125.0 ± 0.75 mm (4.92 ± 0.03 in) dimension of the MRP data page. If the full dimension is used, Zone II shall overlay a portion of Zone V. In this case, issuing States or organizations shall ensure that data contained in either zone is not obscured.

The lower boundary of Zone II may be positioned at the discretion of the issuing State or organization. Enough space must be left for Zones III and IV below the boundary. This boundary does not need to be straight across the 125.0 ± 0.75 mm (4.92 ± 0.03 in) dimension of the MRP data page. This is illustrated in Figure 9.



Dimensions in millimetres
(inch dimensions in parentheses)

Not to scale

Figure 8. Nominal positions of Zones I-V

Note 1.— Dotted lines indicate zone boundaries whose positions are not fixed, enabling issuing States or organizations flexibility in the presentation of data. See paragraph 3.3.

Note 2.— Zone VI, where used, appears on the back of the data page or on an adjacent page.

Zone III should start at the right vertical boundary of Zone V and may extend, at the discretion of the issuing State or organization, to the right edge of the MRP data page. Figures 9 and 10 illustrate the flexibility permitted to issuing States or organizations.

If Zone IV is placed on the MRP data page, it shall be at the bottom of the VIZ on the front of the MRP data page, its lower boundary coincident with the top edge of the MRZ. Figures 8 and 9 show two alternative positions for Zone IV. Figure 10 shows an MRP data page where Zone IV has been placed on an adjacent page.

Zone IV may also overlay Zone V, though this practice is not recommended. In this case, issuing States or organizations shall ensure that individual details contained in either zone are not obscured. See Appendix A, Figure 13.

When an issuing State or organization wishes to have a displayed image of an MRP holder’s fingerprint, the image may be displayed within the area designated for Zone II as illustrated in Appendix A, Figure 14.

4. CONTENTS OF THE MRP DATA PAGE

4.1 Visual Inspection Zone (VIZ) (Zones I through VI)

Guidance on the typeface, size and line spacing, the languages and character set, to be used in the VIZ may be found in Doc 9303-3.

If any optional field or data element is not used, the data may be spread more evenly in the visual zone of the MRP data page consistent with the requirement for sequencing zones and data elements.

4.1.1 Data element directory

The data elements in the VIZ are specified as follows:

4.1.1.1 Visual inspection zone — Data element directory

<i>Field/ zone no.</i>	<i>Data element</i>	<i>Specifications</i>	<i>Maximum no. of character positions</i>	<i>References and notes*</i>
01/I (Mandatory)	Issuing State or organization (in full)	The name of the State or organization responsible for issuing the MRP shall be displayed in full. For additional details see Doc 9303-3.	Variable	Notes a, c, d, f, g. If omitted, shall appear on an adjacent or preceding page in the passport.
02/I (Mandatory)	Document	The word for "passport" in the language of the issuing State or organization, plus either PASSPORT (English), PASSEPORT (French) or PASAPORTE (Spanish) if the language of the issuing State or organization is not English, French or Spanish. For additional details see Doc 9303-3.	Variable	Notes a, c, d, g, m, n. If omitted, shall appear on an adjacent or preceding page in the passport.
03/I (Mandatory)	Document code	Capital letter P to designate an MRP. One additional capital letter may be used, in the character position after the letter P and at the discretion of the issuing State or organization, to designate other types of passports such as MRP issued to diplomatic staff,	2	Notes a, g, l, m.

<i>Field/ zone no.</i>	<i>Data element</i>	<i>Specifications</i>	<i>Maximum no. of character positions</i>	<i>References and notes*</i>
		an MRP issued for travel on government business, or a passport issued for a special purpose.		
04/I (Mandatory)	Issuing State or organization (in code)	As abbreviated in the three-letter code specified in Doc 9303-3.	3 Fixed	Notes a, f, l.
05/I (Mandatory)	Passport Number	As given by the issuing State or organization to uniquely identify the document from all other MRTDs issued by the State or organization. For additional details see Doc 9303-3.	9	Notes a, b, c, g, l.
06/07/II (Mandatory)	Name	The full name of the holder, as identified by the issuing State or organization. For additional details see Doc 9303-3.	Variable	Notes a, c, g, k, l.
06/II (Mandatory)	Primary Identifier	Predominant component(s) of the name of the holder as described in Doc 9303-3. In cases where the predominant component(s) of the name of the holder (e.g. where this consists of composite names) cannot be shown in full or in the same order, owing to space limitations of Field(s) 06 and/or 07 or national practice, the most important component(s) (as determined by the State or organization) of the primary identifier shall be inserted.	Variable	Notes a, c, g, k, l.
07/II (Mandatory)	Secondary Identifier	Secondary component(s) of the name of the holder as described in Doc 9303-3. The most important component(s) (as determined by the State or organization) of the secondary identifier of the holder shall be inserted in full, up to the maximum dimensions of the field frame. Other components, where necessary, may be	Variable	Notes a, c, k, g, l.

<i>Field/ zone no.</i>	<i>Data element</i>	<i>Specifications</i>	<i>Maximum no. of character positions</i>	<i>References and notes*</i>
		represented by initials. Where the holder's name has only predominant component(s), this data field shall be left blank. A State may optionally utilize the whole zone comprising Fields 06 and 07 as a single field. In such a case, the primary identifier shall be placed first, followed by a comma and a space, followed by the secondary identifier.		
08/II (Mandatory)	Nationality	For details see Doc 9303-3.	Variable	Notes a, c, f, g, l, o.
09/II (Mandatory)	Date of birth	Holder's date of birth as recorded by the issuing State or organization. If the date of birth is unknown, see Doc 9303-3 for guidance.	Variable	Notes a, b, c, g, l.
10/II (Optional)	Personal number	Field optionally used for personal identification number given to holder by the issuing State or organization. For additional details see Doc 9303-3.	Variable	Notes a, b, c, e, g.
11/II (Mandatory)	Sex	Sex of the holder, to be specified by use of the single initial commonly used in the language of the State where the document is issued and, if translation into English, French or Spanish is necessary, followed by an oblique and the capital letter F for female, M for male, or X for unspecified.	3	Notes a, c, g, l.
12/II (Optional element in mandatory zone)	Place of birth	Field optionally used for city and State of the holder's birthplace. Refer to Doc 9303-3 for further details.	Variable	Notes a, c, e, f, g.

<i>Field/ zone no.</i>	<i>Data element</i>	<i>Specifications</i>	<i>Maximum no. of character positions</i>	<i>References and notes*</i>
13/II (Optional element in mandatory zone)	Optional personal data elements	Optional personal data elements e.g. personal identification number or fingerprint, at the discretion of the issuing State or organization. If a fingerprint is included in this field, it should be presented as a 1:1 representation of the original. If a date is included it shall follow the form of presentation described in Doc 9303-3.	Variable	Notes a, b, c, e, g, i.
14/III (Mandatory)	Date of issue	For details see Doc 9303-3.	Variable	Notes a, b, c, g, i, l.
15/III (Mandatory)	Authority or issuing organization	Authority or issuing organization for the MRP. This field shall be used to indicate the issuing authority or issuing organization and, optionally, its location, which may be personalized within this field. For additional details see Doc 9303-3.	Variable	Notes a, b, c, f, g, j, l.
16/III (Mandatory)	Date of expiry	Date of expiry of the MRP. For additional details see Doc 9303-3.	Variable	Notes a, b, c, g, l.
17/III Optional element in mandatory zone	Optional document data elements	Optional data elements relating to the document. For additional details see Doc 9303-3.	Variable	Notes a, b, c, e, g.
18/IV (Mandatory)	Holder's signature or usual mark	At the discretion of the issuing State or organization, the signature or usual mark may be located in Zone VI. The size of the field to be allocated to the signature or usual mark on the adjoining page shall be at the discretion of the issuing State or organization, subject to the overall dimensional limits of the MRP. For additional details see Doc 9303-3.	Variable	Notes e, j.

<i>Field/ zone no.</i>	<i>Data element</i>	<i>Specifications</i>	<i>Maximum no. of character positions</i>	<i>References and notes*</i>
19/V (Mandatory)	Identification feature	This field shall contain a portrait of the holder. The portrait shall not be larger than 45.0 mm x 35.0 mm (1.77 in x 1.38 in) nor smaller than 32.0 mm x 26.0 mm (1.26 in x 1.02 in). The position of the field concerned shall be aligned to the left of Zones II, III and IV. See Doc 9303-3 for additional specifications for the portrait.		Note d.
20/VI (Optional)	Optional data elements	Additional optional data elements at the discretion of the issuing State or organization. For additional details see Doc 9303-3.		Notes a, b, c, e, g, i.

* Notes can be found following paragraph 4.2.2.2.

4.2 Machine Readable Zone (MRZ) (Zone VII)

4.2.1 Data position, data elements and print position in the MRZ

4.2.1.1 Data position

The MRZ is located on the front of the MRP data page. Figure 3 defines the location of the MRZ and the nominal position of the data therein.

4.2.1.2 Data elements

The data elements corresponding to Fields 03 to 09, 11 and 16 of the VIZ shall be personalized in machine readable form, in the MRZ, beginning with the left most character position in each field in the sequence indicated in the data structure specifications shown below. Figure 15 indicates the structure of the MRZ.

4.2.1.3 Print position

The position of the left-hand edge of the first character shall be 6.0 ± 1.0 mm (0.24 ± 0.04 in) from the left-hand edge of the document. Reference centre lines for the OCR lines and the minimum starting position for the first character of each line are shown in Figure 3. The positioning of the characters is indicated by those reference lines and by the printing zones for the two code lines in Figure 7.

4.2.2 Data structure of machine readable data for the MRP data page

4.2.2.1 Data structure of the upper machine readable line

MRZ character positions (line 1)	Field no. in VIZ	Data element	Specifications	Number of characters	References and notes*
1 to 2	03	Document code	The first character shall be P to designate an MRP. One additional letter may be used, at the discretion of the issuing State or organization, to designate a particular MRP. If the second character position is not used for this purpose, it shall be filled by the filler character (<).	2	Notes a, d, m.
3 to 5	04	Issuing State or organization	The three-letter code specified in Doc 9303-3 shall be used. Spaces shall be replaced by filler characters (<).	3	Notes a, d, f.
6 to 44	06, 07	Name	For details see Doc 9303-3.	39 [Primary identifier(s), secondary identifier(s) and fillers]	Notes a, c, d.
		Punctuation in the name	Representation of punctuation is not permitted in the MRZ. For details on apostrophes, hyphens, commas, etc., see Doc 9303-3.		
		Name prefixes and suffixes	For details see Doc 9303-3.		
		Filler	When all components of the primary and secondary identifiers and required separators (filler characters) do not exceed 39 characters in total, all name components shall be included in the MRZ and all unused character positions shall be completed with filler characters (<) repeated up to position 44 as required.		
		Truncation of the name	When the primary and secondary identifiers and required separators (filler characters) exceed the number of character positions available for names (i.e. 39), they shall be truncated as follows:		Notes a, d.

<i>MRZ character positions (line 1)</i>	<i>Field no. in VIZ</i>	<i>Data element</i>	<i>Specifications</i>	<i>Number of characters</i>	<i>References and notes*</i>
			<p>Characters shall be removed from one or more components of the primary identifier until three character positions are freed, and two filler characters (<<) and the first character of the first component of the secondary identifier can be inserted. The last character (position 44) shall be an alphabetic character (A through Z). This indicates that truncation may have occurred.</p> <p>Further truncation of the primary identifier may be carried out to allow characters of the secondary identifier to be included, provided that the name field shall end with an alphabetic character (position 44). This indicates that truncation may have occurred.</p> <p>When the name consists of only a primary identifier which exceeds the number of character positions available for the name, i.e. 39, characters shall be removed from one or more components of the name until the last character in the name field is an alphabetic character.</p>		

* Notes can be found following paragraph 4.2.2.2.

4.2.2.2 Data structure of the lower machine readable line

<i>MRZ character positions (line2)</i>	<i>Field no. in VIZ</i>	<i>Data element</i>	<i>Specifications</i>	<i>Number of characters</i>	<i>References and notes*</i>
1 to 9	05	Passport number	As given by the issuing State or organization to uniquely identify the document. Any special characters or spaces in the passport number as shown in the VIZ shall be replaced by the filler character (<). The number shall be followed by the filler character (<) repeated up to position 9 as required.	9	Notes a, b, d.

<i>MRZ character positions (line2)</i>	<i>Field no. in VIZ</i>	<i>Data element</i>	<i>Specifications</i>	<i>Number of characters</i>	<i>References and notes*</i>
10		Check digit	Shall be calculated as specified in Doc 9303-3 and positioned as specified in paragraph 4.2.4.	1	Notes b, d.
11 to 13	08	Nationality	As a three-letter code representing the holder's nationality as listed in Doc 9303-3. Spaces are replaced by filler characters.	3	Notes a, d, f.
14 to 19	9	Date of birth	See Doc 9303-3 for details.	6	Notes b, d, i.
20		Check digit	Shall be calculated as specified in Doc 9303-3 and positioned as specified in paragraph 4.2.4.	1	Notes b, d.
21	11	Sex	F = female; M = male; < = unspecified.	1	Notes a, d.
22 to 27	16	Date of expiry	See Doc 9303-3 for details.	6	Notes b, d, i.
28		Check digit	Shall be calculated as specified in Doc 9303-3 and positioned as specified in paragraph 4.2.4.	1	Notes b, d.
29 to 42	10	Personal number or other optional data elements	Any special characters, including spaces in the personal identification number given to the holder by the issuing State or organization, shall be replaced by the filler character (<). The number shall be followed by the filler character (<) repeated up to position 42 as required. When the personal number field is not used, the character positions 29 to 42 in the second MRZ line should be completed with filler characters (<) (see also under "check digit", character position 43 below).	14	Notes a, b, d.
43		Check digit	Shall be calculated as specified in Doc 9303-3 and positioned as specified in paragraph 4.2.4. When the personal number field is not used and filler characters (<) are used in positions 29 to 42, the check digit	1	Notes b, d.

<i>MRZ character positions (line2)</i>	<i>Field no. in VIZ</i>	<i>Data element</i>	<i>Specifications</i>	<i>Number of characters</i>	<i>References and notes*</i>
			may be zero or the filler character (<) at the option of the issuing State or organization.		
44		Composite check digit	Composite check digit for characters of machine readable data of the lower line in positions 1 to 10, 14 to 20 and 22 to 43, including values for letters that are a part of the number fields and their check digits. Shall be calculated as specified in Doc 9303-3.	1	Notes b, d.

** Notes to the Visual and Machine Readable data element directories:*

- a) Alphabetic characters (A to Z) as defined in Doc 9303-3.
- b) Numeric characters (0 to 9) as defined in Doc 9303-3.
- c) Punctuation may be included in the VIZ. In the MRZ only the filler character specified in Doc 9303-3 may be used.
- d) The field caption is not printed on the document.
- e) The use of a caption to identify the field is at the option of the issuing State.
- f) In the case of the United Nations laissez-passer, Field 01 (Issuing State or Organization) in the VIZ shall be completed with the words "UNITED NATIONS — NATIONS UNIES". In keeping with the international character of United Nations officials, neither nationality nor place of birth shall be shown. The caption for Field 08 (Nationality) shall read instead: "Official of/Fonctionnaire des" and the words "UNITED NATIONS/ NATIONS UNIES" entered instead of nationality. Field 12 (Place of birth) shall be left blank. The codes to be used in Field 04 (Code for issuing State or organization) in the VIZ as well as in character positions 3 to 5 (Issuing State or Organization) in the upper line of the MRZ and in character positions 11 to 13 (Nationality) in the lower line shall be as specified in Doc 9303-3.
- g) A blank space (or spaces) is included. Blank spaces between words shall count towards the maximum number of characters permitted in the field.
- h) Intentionally omitted from the Data Element Directory. In the sixth and earlier editions of Doc 9303, this Note provided for stick-in portrait photographs the use of which is no longer permitted in an MRP.
- i) The method of writing dates is given in Doc 9303-3.
- j) The space reserved for Field 15 may be expanded to include additionally the space for Field 18 when the option is taken of locating the holder's signature or usual mark on the adjacent page. In this instance, the authority or issuing organization may be expressed as two lines of variable numbers of character positions.

4.2.3.4 Names that just fit, indicating possible truncation by letter in the last position of the name field, but which are not truncated

Name: Jonathon Warren Trevor Papandropoulos
 VIZ: PAPANDROPOULOUS, JONATHON WARREN TREVOR
 MRZ: P<UTOPAPANDROPOULOUS<<JONATHON<WARREN<TREVOR

Note.— Even though there is an alpha character in the 44th position of this passport upper machine readable line, this name has not been truncated but it must be assumed that it has been truncated.

4.2.4 Check digits in the Machine Readable Zone

The data structure of the lower machine readable line specified in paragraph 4.2.2.2 provides for the inclusion of five check digits as follows:

Check digit	Character positions (lower MRZ line) used to calculate check digit	Check digit position (lower MRZ line)
Passport number	1-9	10
Date of birth	14-19	20
Date of expiry	22-27	28
Personal number	29-42	43
Composite check digit	1-10, 14-20, 22-43 <i>Note.— Positions 11-13 and 21 are excluded when calculating the composite check digit.</i>	44

4.3 Representation of the Issuing State or Organization
and Nationality of Holder in the MRZ and the VIZ

Use of three-letter Country codes is mandatory in the MRZ and Field 04 in the VIZ and optional for the holder's nationality in the VIZ. Specific locations are defined in the following table:

	Zone	Field no.	Character position no.	Number of character positions
Issuing State or organization	VIZ	04	3-5	3
	MRZ (upper line)			3
Holder's nationality	VIZ	08	11-13	variable
	MRZ (lower line)			3

5. REFERENCES (NORMATIVE)

- ISO/IEC 7810 ISO/IEC 7810:2003, Identification cards – Physical characteristics.
- ISO/IEC 18745-1 ISO/IEC 18745-1:2014, Information technology – Test methods for machine readable travel documents (MRTD) and associated devices – Part 1: Physical test methods for passport books (durability).

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