INTERNATIONAL CIVIL AVIATION ORGANIZATION

الهيئة العامة للطيران المدني
CIVIL AVIATION AUTHORITY

ICAO Regional Seminar on MRTDs, Biometrics and Border Security

دودندوة الايكاو الإقليمية عن وثائق السفر المقروءة آليا، والأدوات البيومترية وأمن الحدود

الدوحة، قطر

31 October - 2 November 2011, Doha, Qatar

٣١ أكتوبر إلى ٢ نوفمبر ٢٠١١

ICAO MRTD
STANDARDS & SPECIFICATIONS

David Philp

General Manager, New Zealand Passports

Chair, ICAO ICBWG

Agenda

- Role of ICAO
- Chicago Convention 1944
- Doc 9303
  - Part 1 MRPs
  - Part 2 Visas
  - Part 3 Travel cards

International standards

IOM - OIM

osce

Evolution of MRTD

- Annex 9 to the Chicago convention of 1944
- 1968 - ICAO started work on MRTD standards.
- 1980 – First edition of Doc 9303
- First MRP issued in 1981
- Standards evolved over nearly 3 decades
- Balance between facilitation and security
- Cultural considerations:
  - Transliteration
  - Flexibility in VIZ
- First introduction of ePassport 2004

Chapter 3. of Annex 9

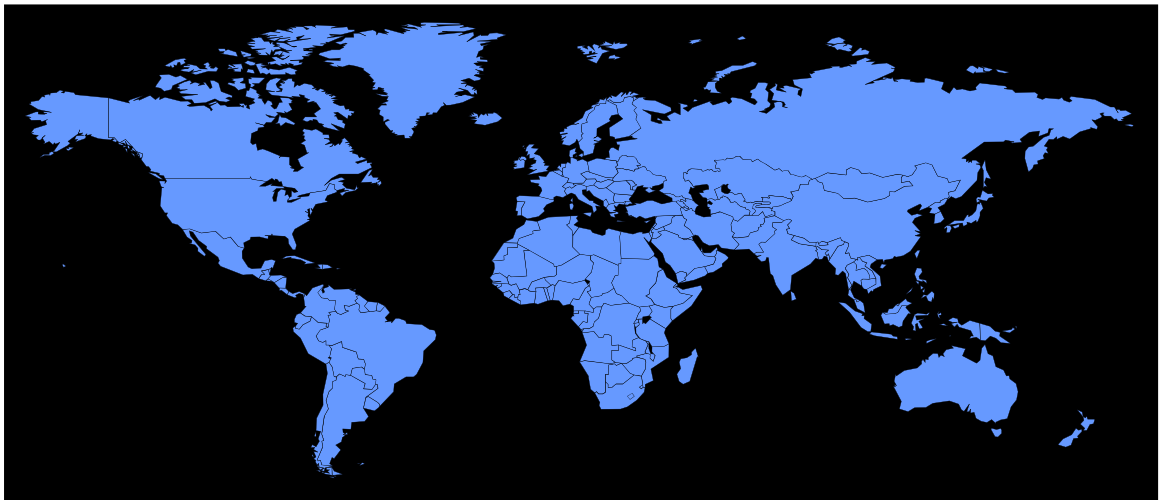
- **Contracting States:**
  - **Shall not extend the validity of their MRTDs**
  - **Shall issue a separate passport to each person, regardless of age**
  - **Validity. At least 5 years. Not more than 10 yrs**
  - **Shall begin issuing only MRPs no later than 1 April 2010**
  - **Shall make provision for encoded data to be revealed to the holder of the document**
  - **Non MR passports issued after 24 Nov 2005 shall ensure that the expiration date falls before 24 Nov 2015. After 2015 all passports in circulation must be MRP**
  - **NOTE: UN Conventions (1951 Refugee and 1954 Stateless Persons) state that fees for CTDs should not exceed the lowest scale of charges for national passports**

ICAO standards

- ICAO DOCUMENT 9303 (Parts 1-3), Family of MRTDs:
  - Part 1: Machine Readable Passports (MRPs)
    - **Volumes 1 & 2**
  - Part 2: Machine Readable Visas (MRVs)
  - Part 3: Official Travel Documents (cards)
    - Volumes 1 & 2
- SUPPLEMENT (10)

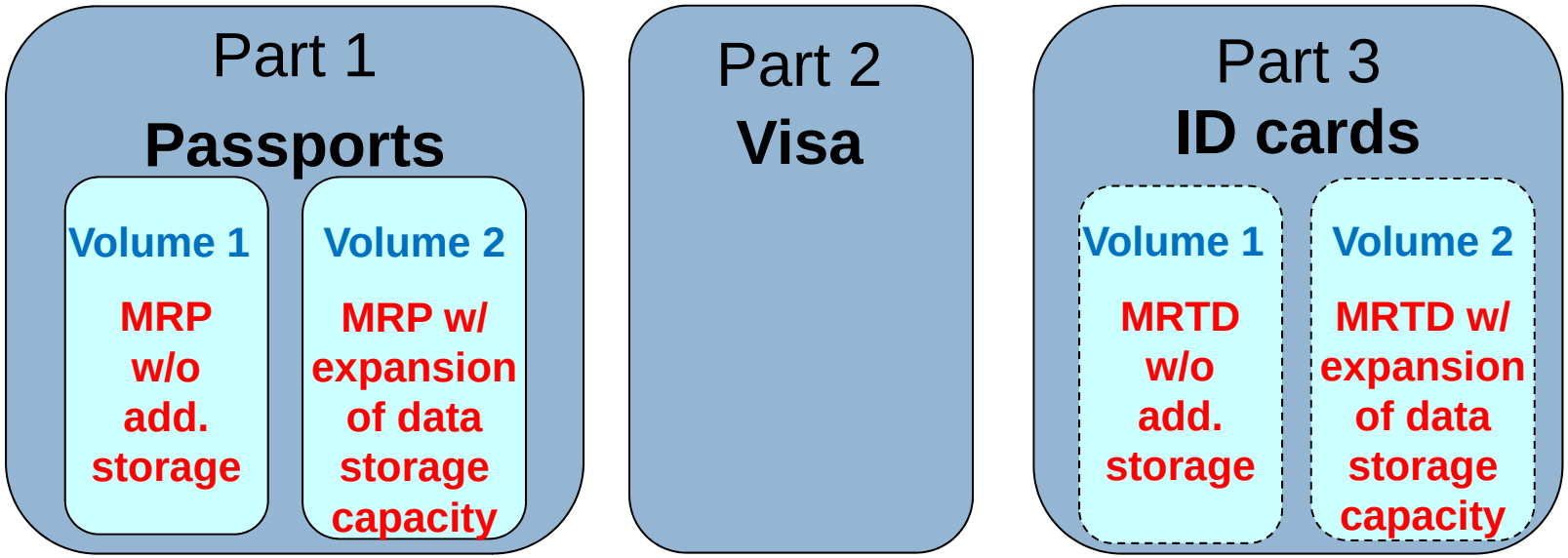
Intended benefits of MRTDs

- To facilitate and secure passenger processing at border control points
- To enable global interoperability



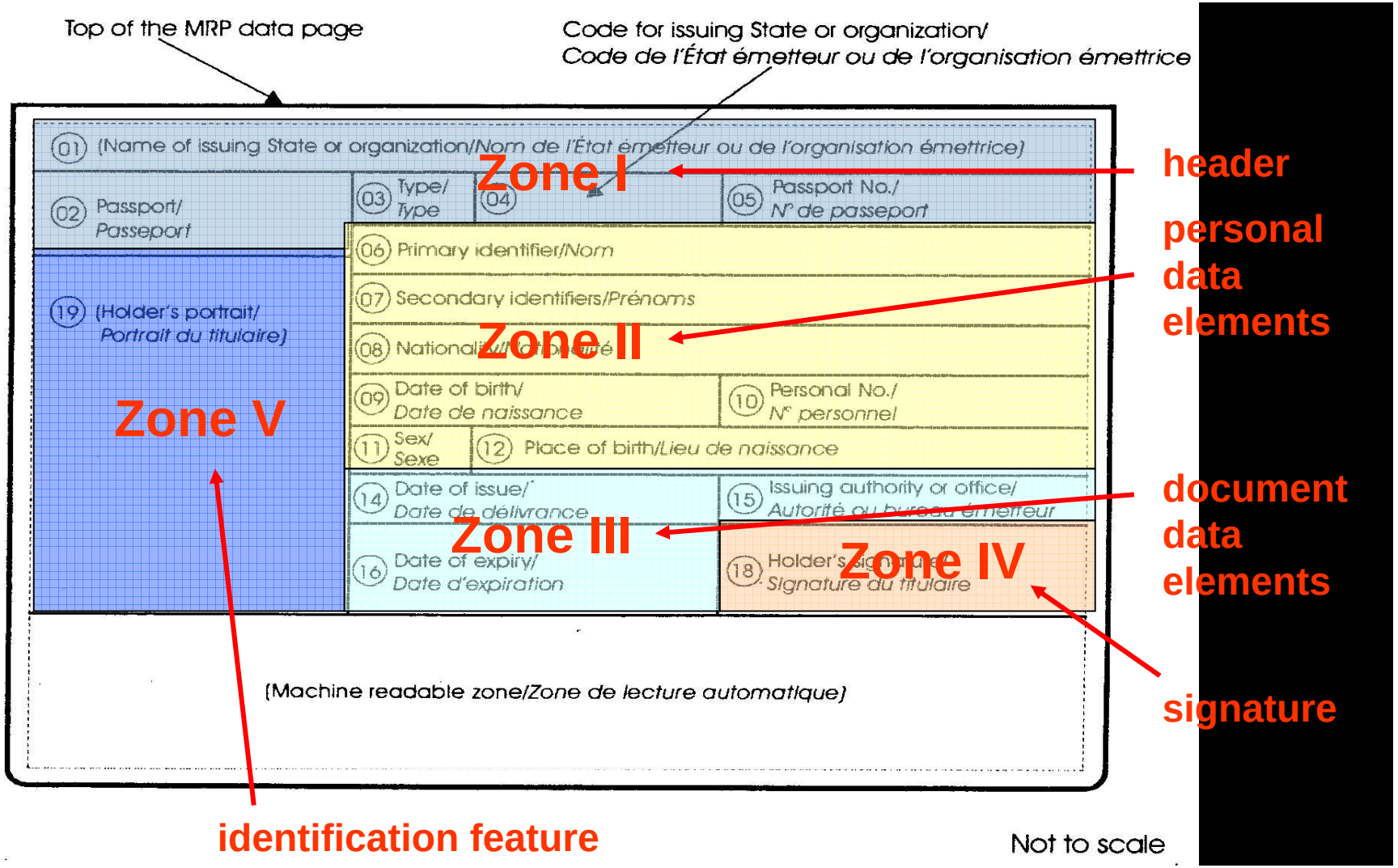
ICAO Document 9303 – status

- Structure of Document 9303
- Supplements (10)
- Under review – TAG/MRTD 20: WP 8

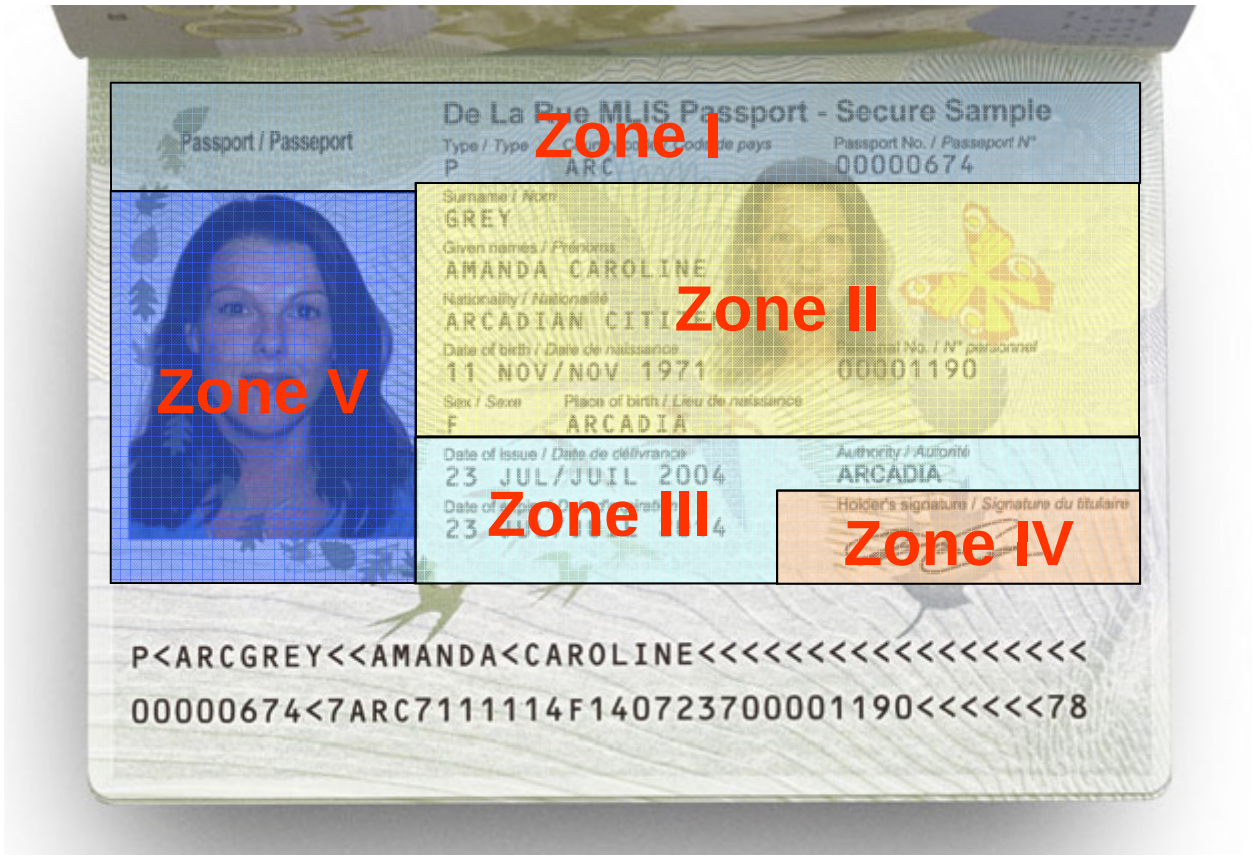


Data page layout

Visual inspection zone (VIZ)



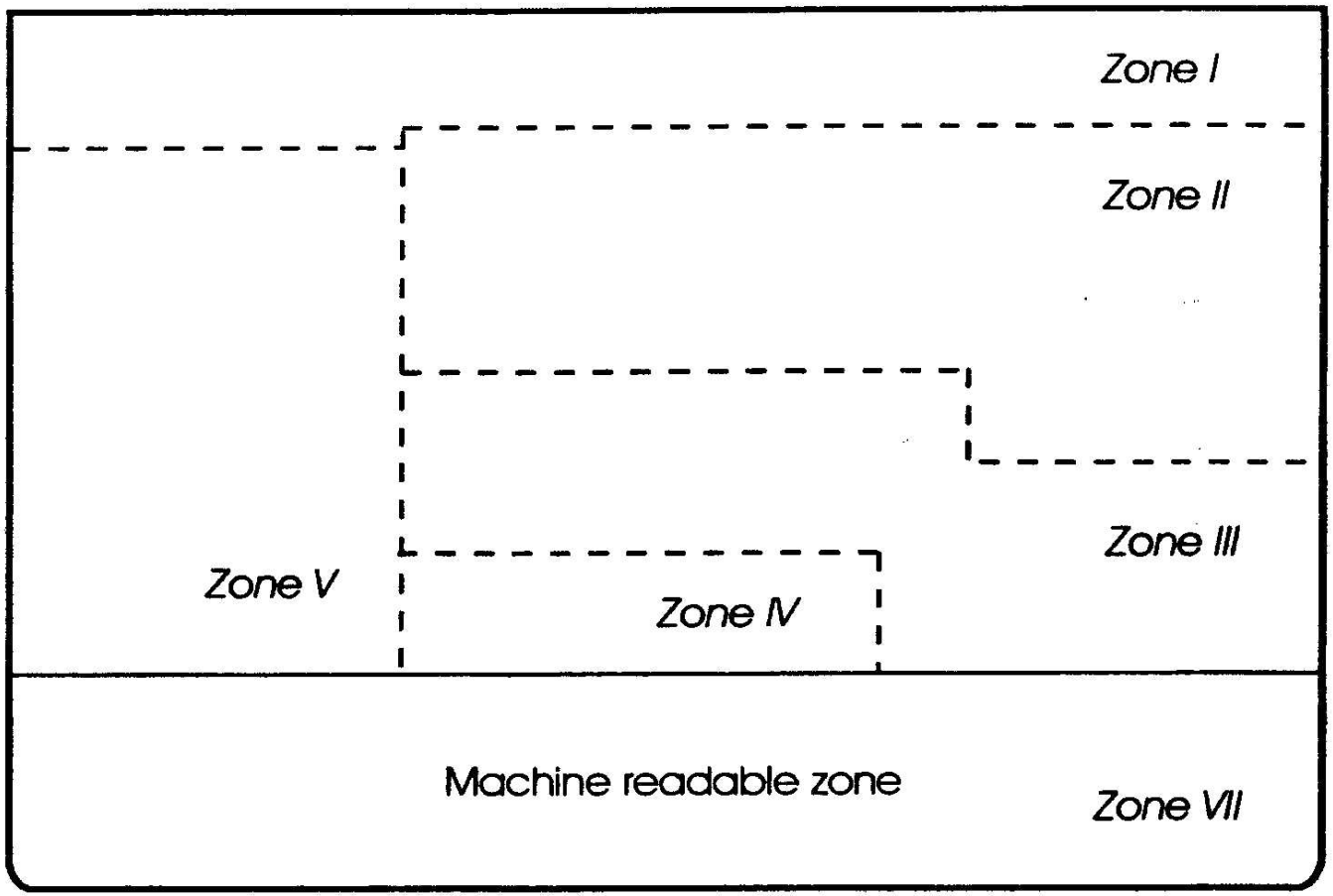
Visual inspection zone (VIZ)



VIZ – zone location options

Diagram 2. Flexible positioning of Zones 1 to V

Example 1



VIZ – zone location options

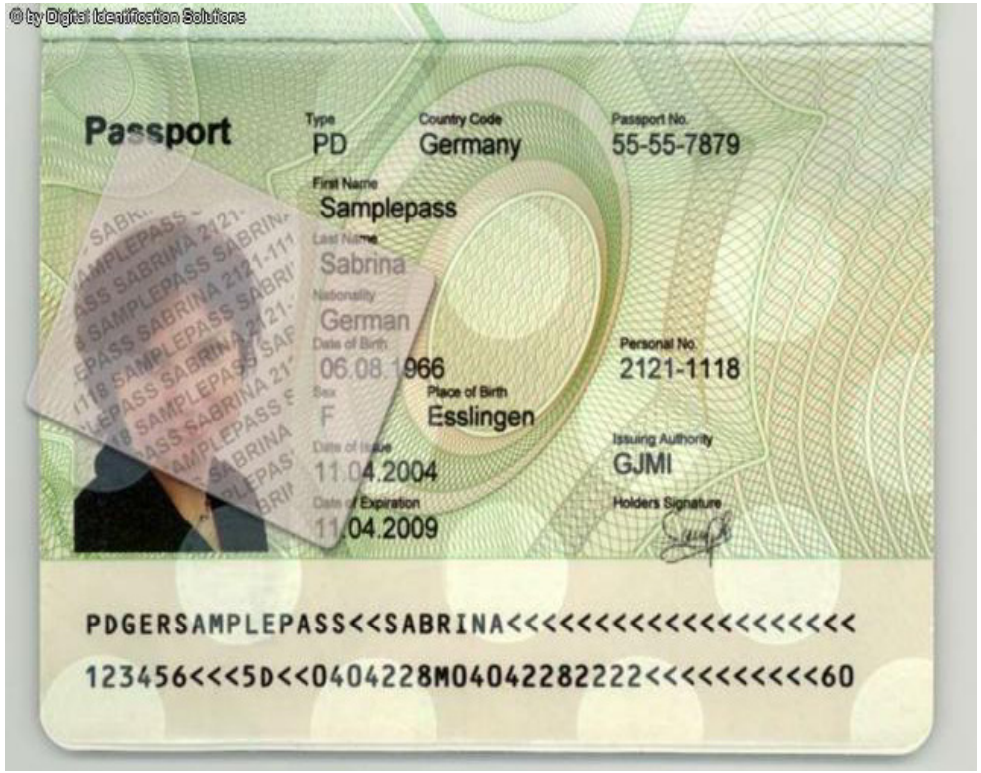
Field 13 – optional personal data elements (ghost image, fingerprint, etc) (VR)

VIZ – zone location options

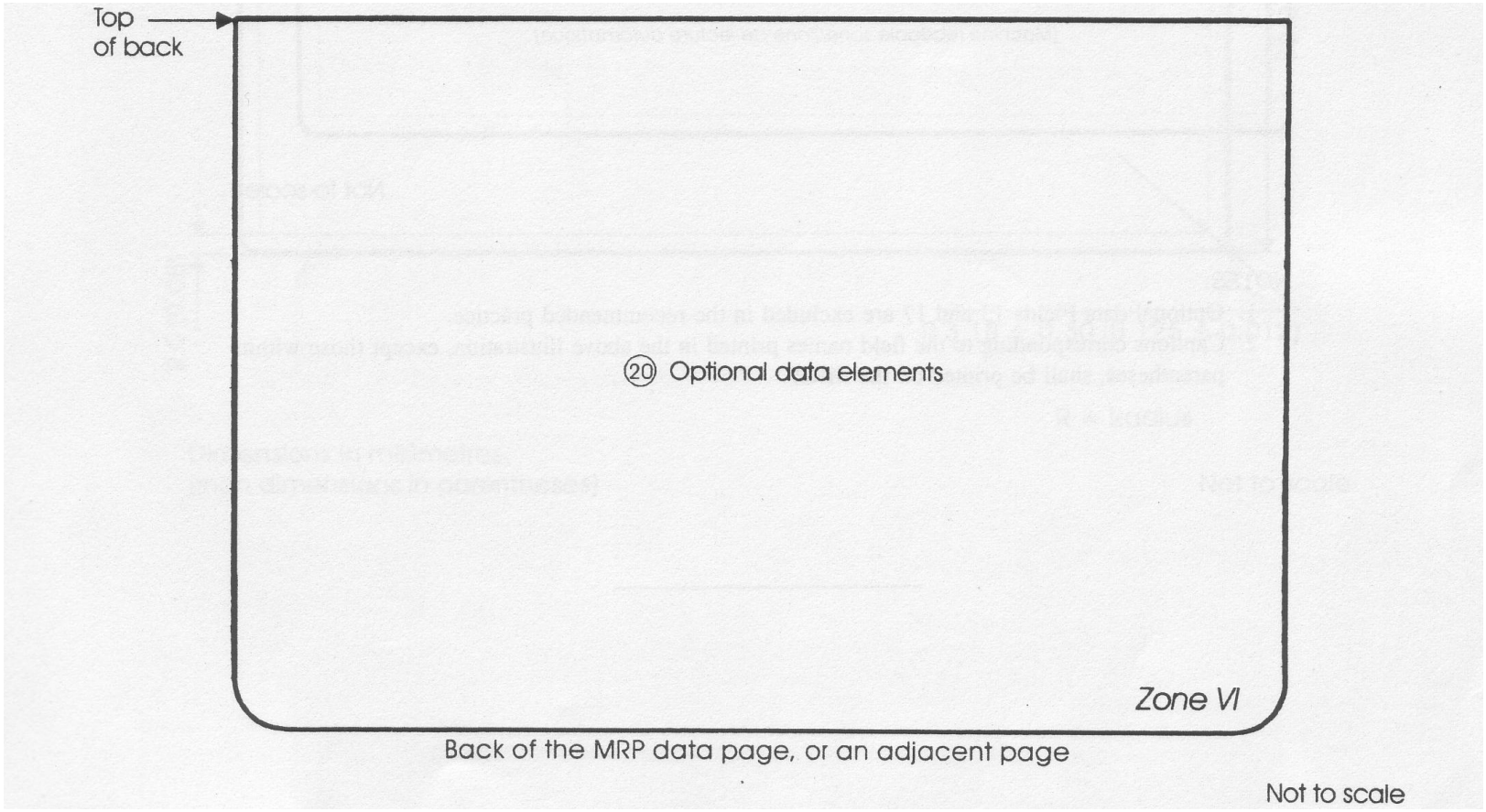
Field 18 – Holder's signature or usual mark (VR), may be located in Zone VI (rear)

VIZ – zone location options

Data Feature - Digital Security



VIZ – zone VI

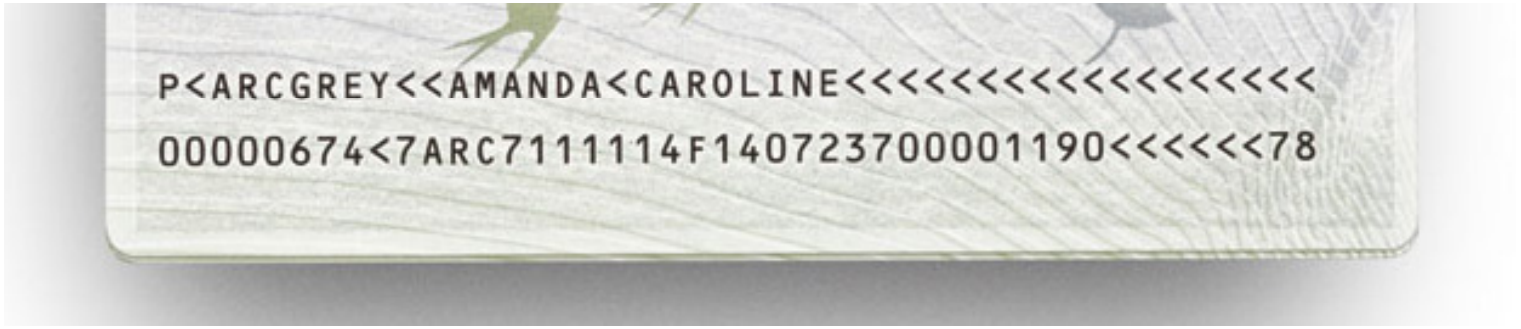

Top
of back
20 Optional data elements
Zone VI
Back of the MRP data page, or an adjacent page
Not to scale

Machine readable zone (MRZ)

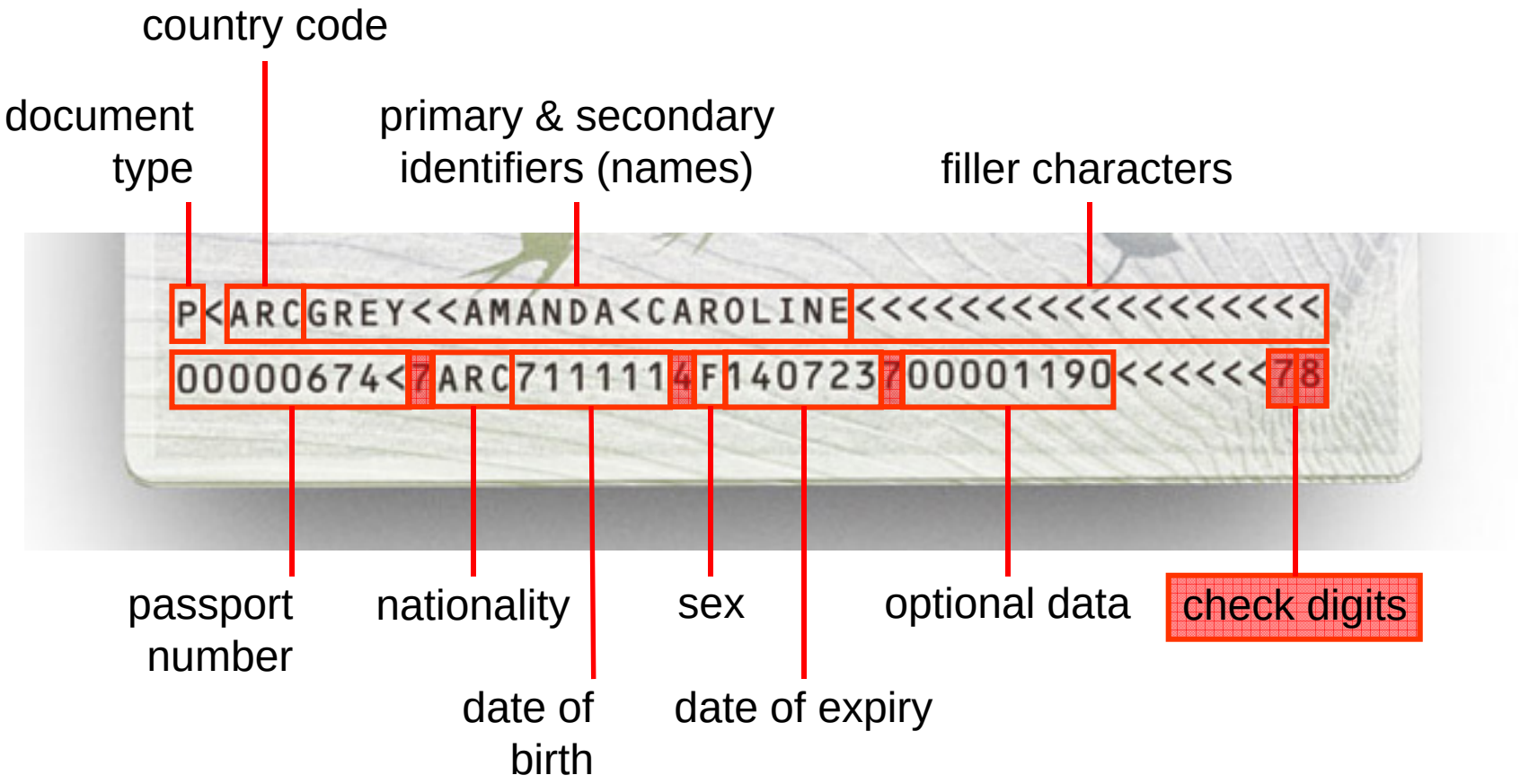
MRZ

MRZ – OCR-B

- “Machine readable information is contained in two lines of OCR-B text, each with 44 characters”. ICAO Doc 9303, II-2



MRZ – OCR-B


country code
document type
primary & secondary identifiers (names)
filler characters
P<ARCGREY<<AMANDA<CAROLINE<<<<<<<<<<<<<<<<<<<<
00000674<7ARC7111114F1407237700001190<<<<<<<78
passport number
nationality
date of birth
sex
date of expiry
optional data
check digits

VIZ – zone location options

Part 2 – Visa

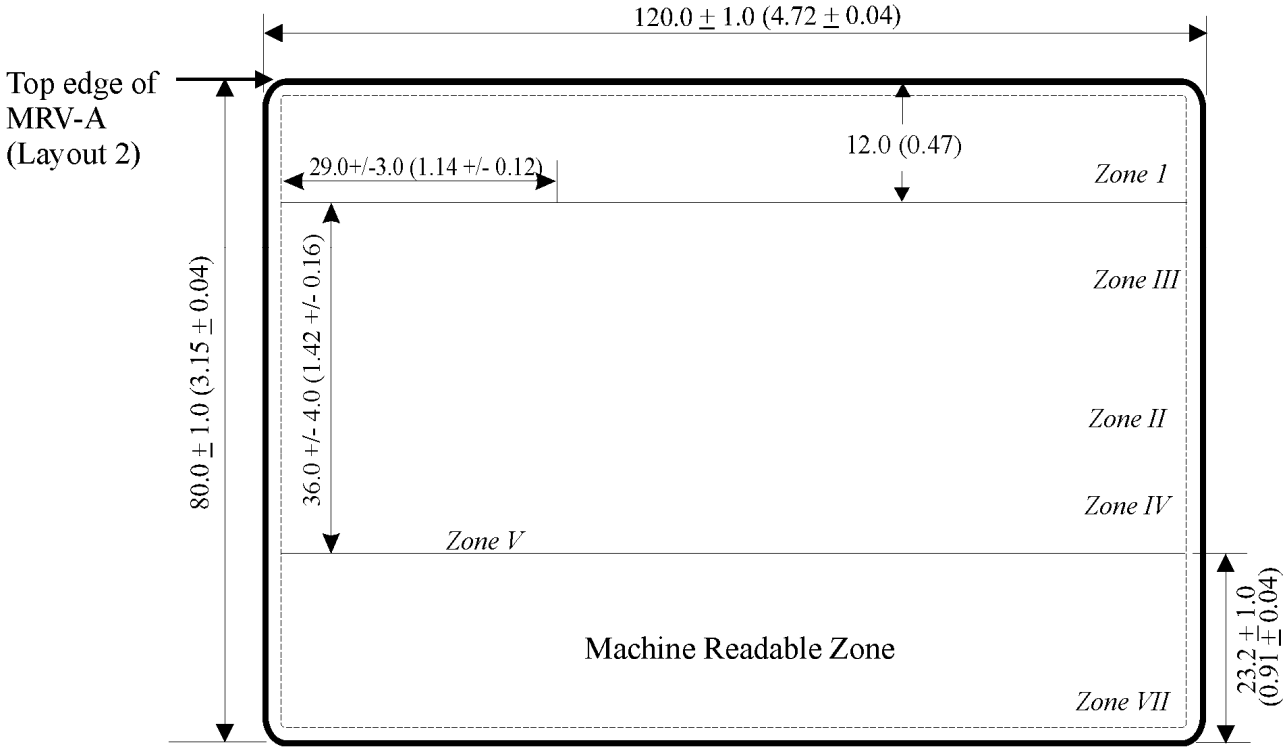
- Interoperability a must? Airlines!
- 3 eVisa possibilities
  - in visa label
  - in database (also supporting label)
  - in ePassport chip (future possibility)

Visas
Why interoperability?

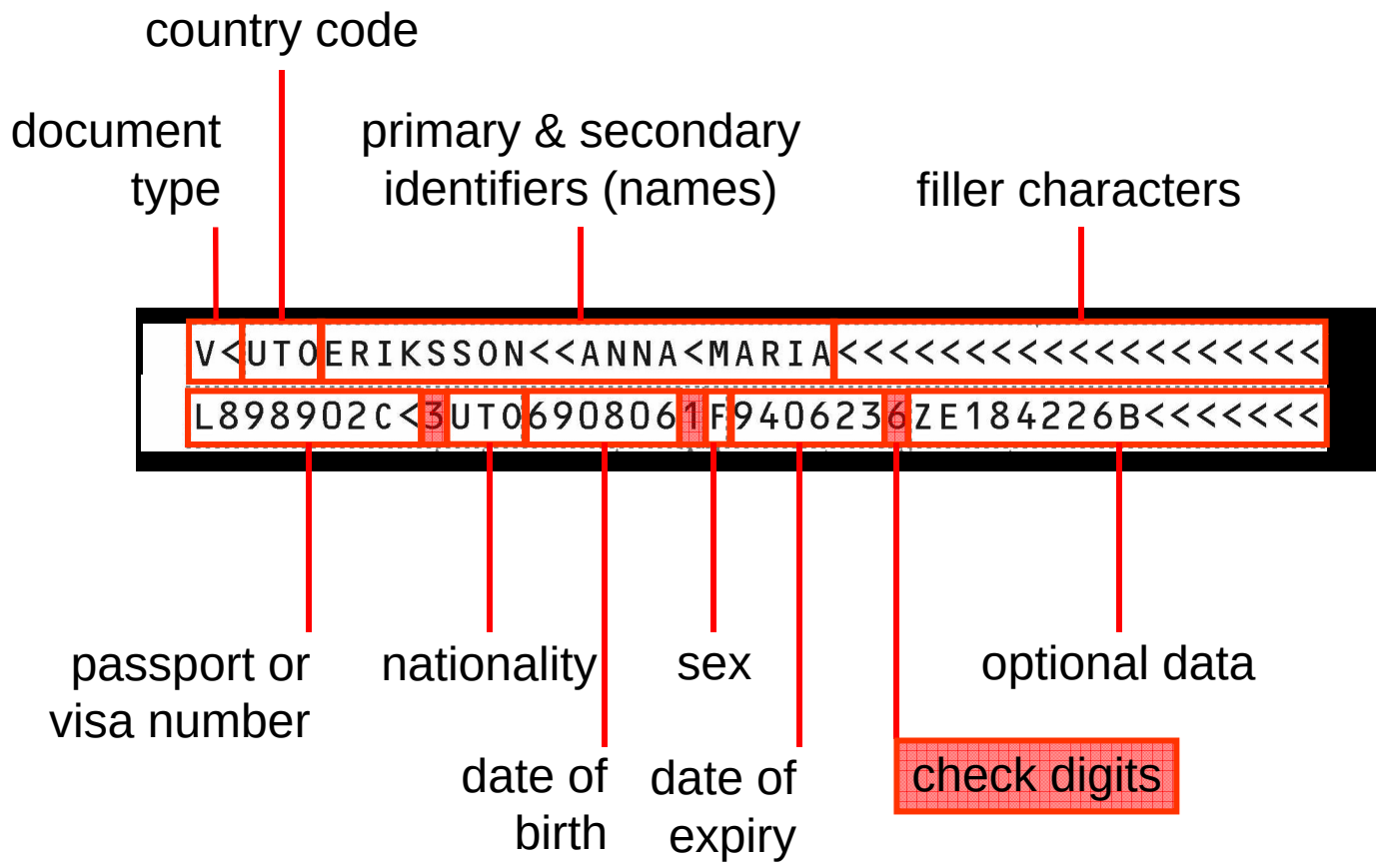
- International travel
- Border control – 191 member state
- Airlines – carriers' liability provisions
- Other private and public sector users (e.g. educational institutions and banks)

Example of MRV-A

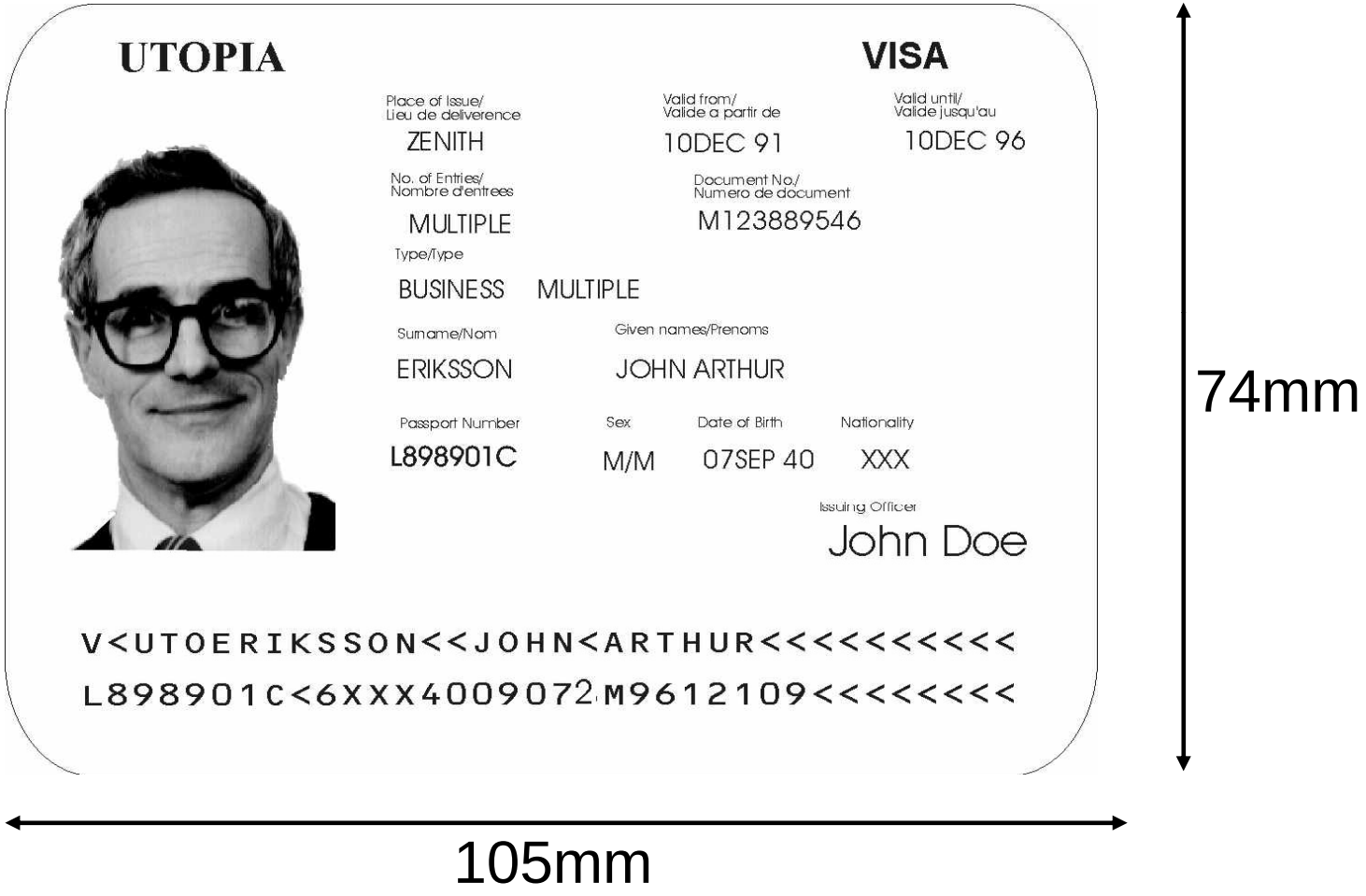
Zone boundaries: MRV-A



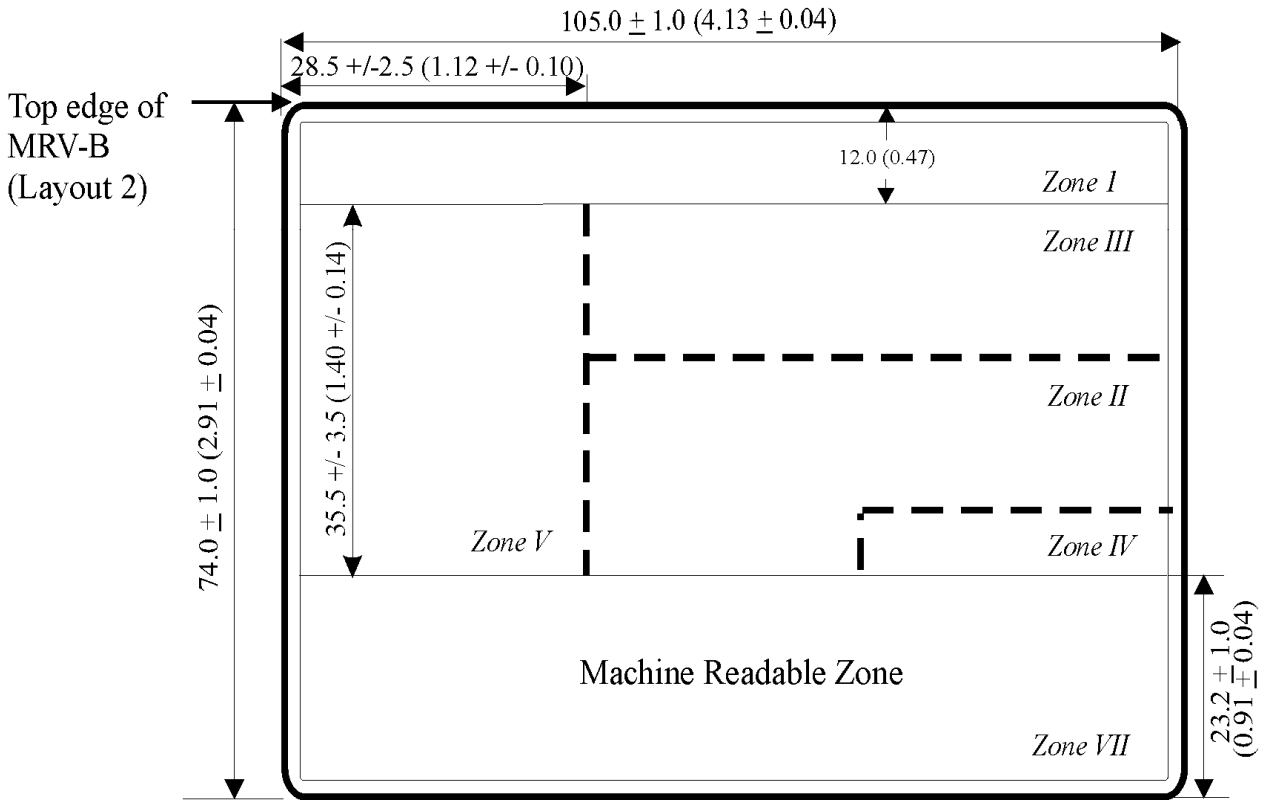
Machine-readable zone: MRV-A



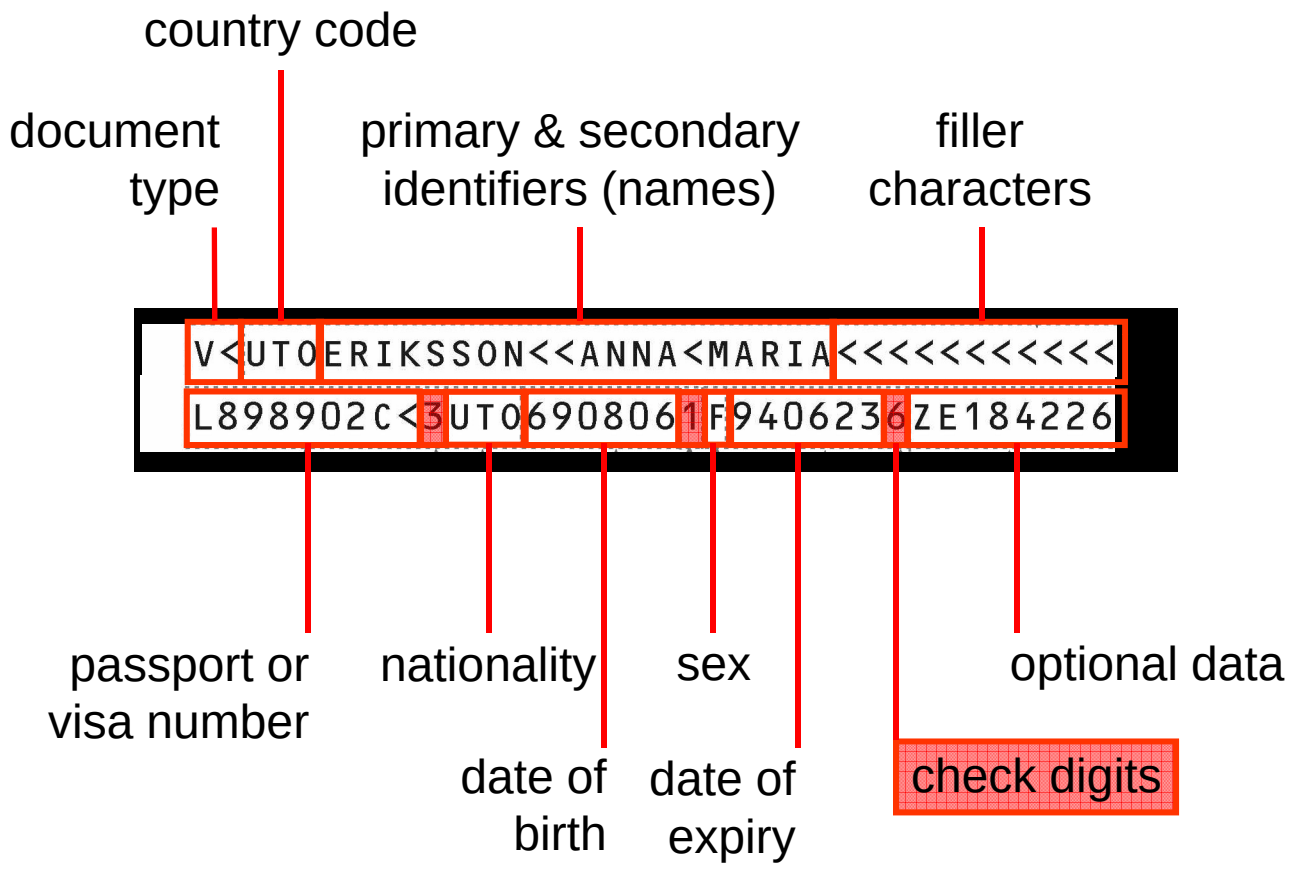
Example of MRV-B



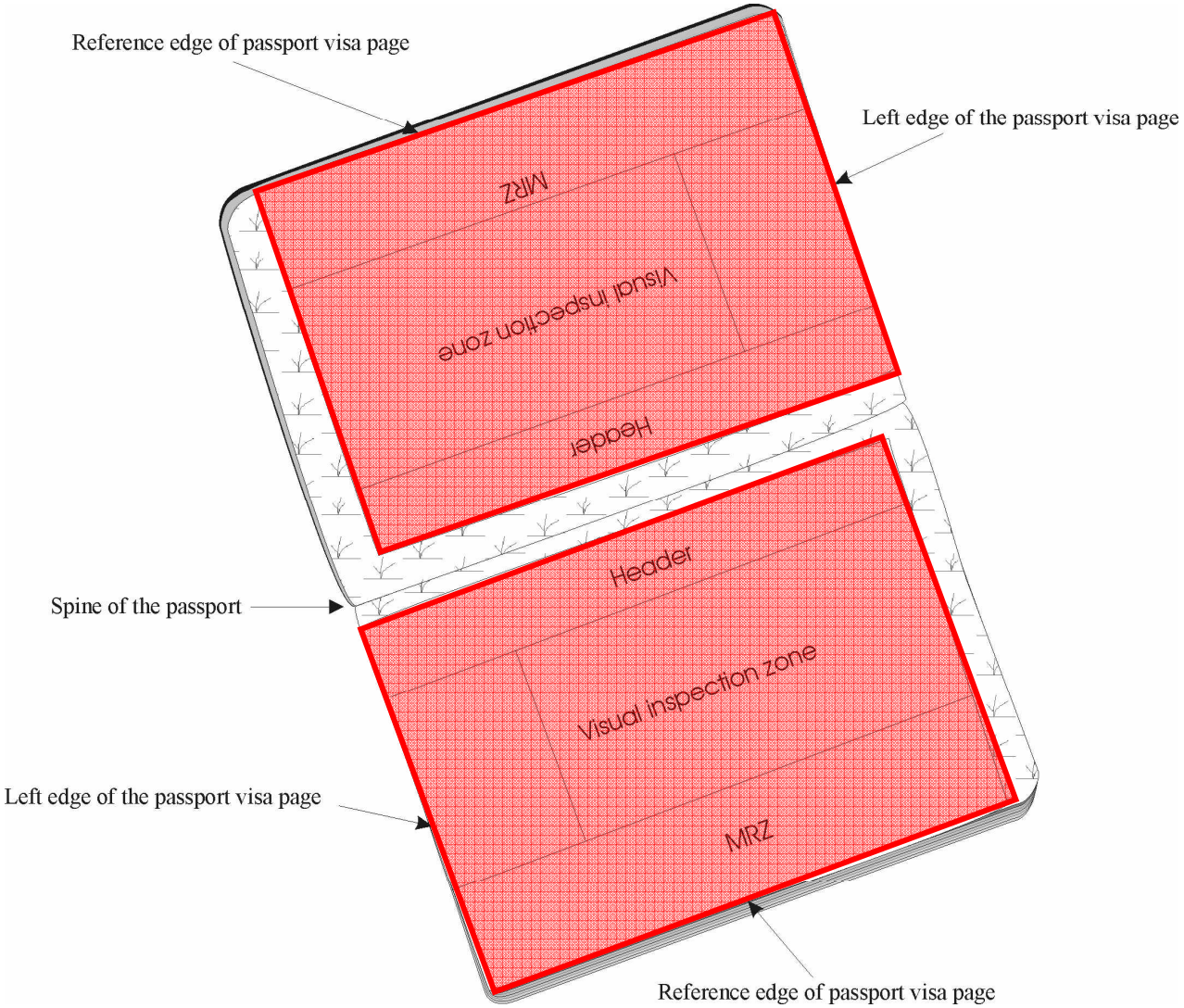
Zone boundaries: MRV-B



Machine-readable zone: MRV-B



Visa positioning in passport



Schengen MRV

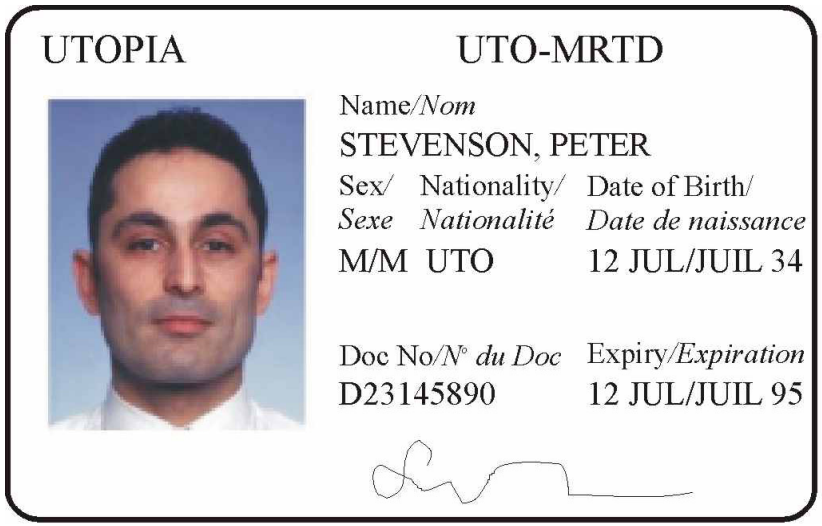
Part 3 – Official Travel Documents (cards)

- Currently many variations

Example of td1 (ID1-sized card)

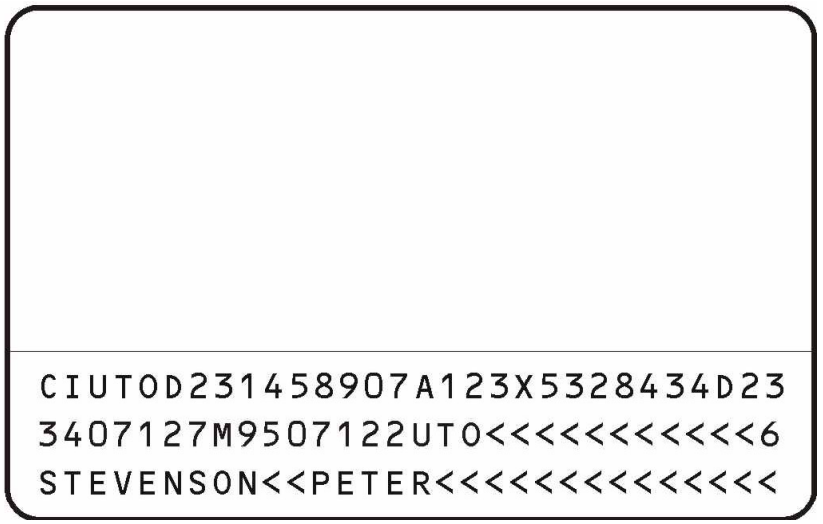
53.98mm

Front



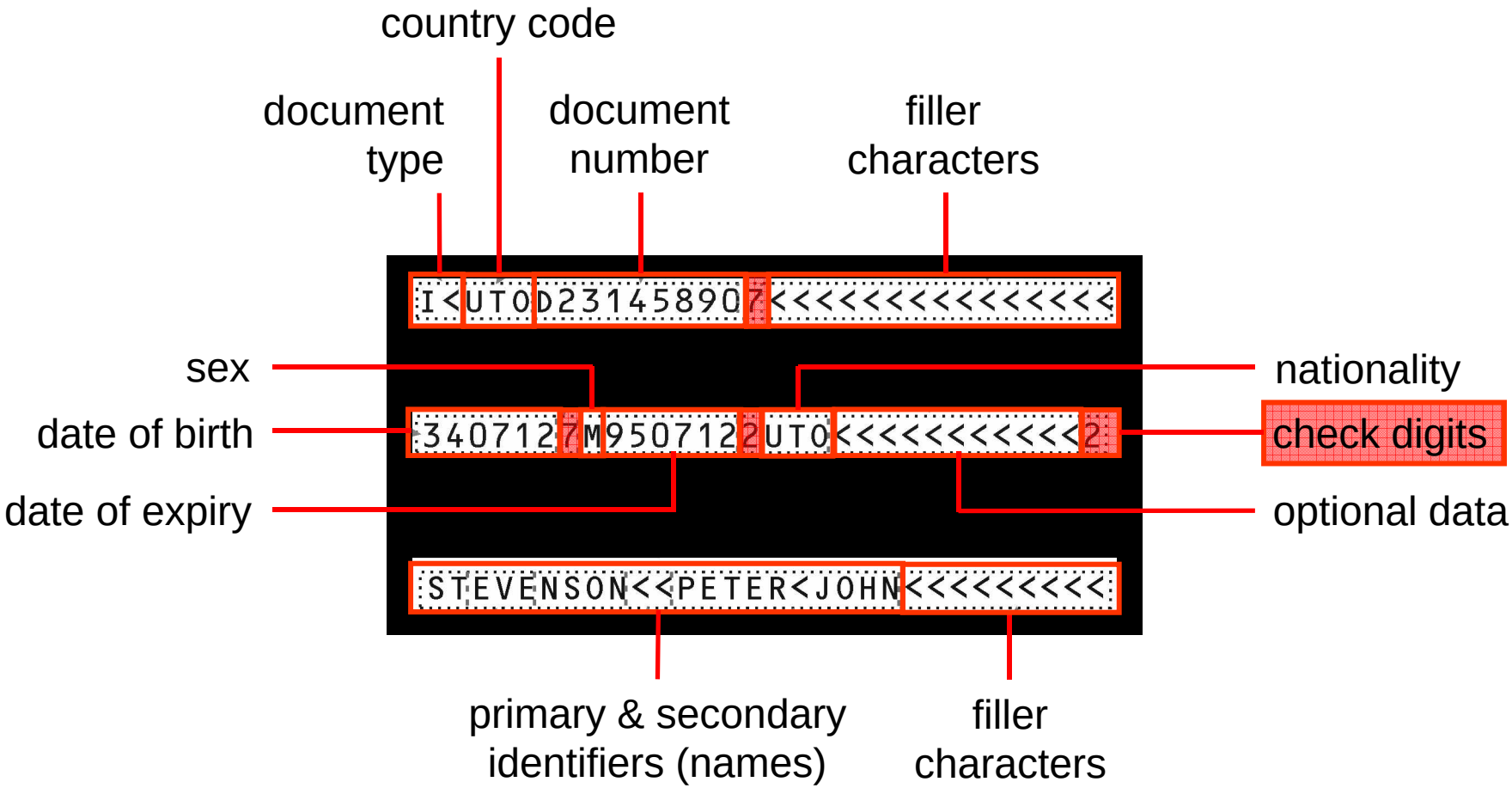
85.60mm

Rear



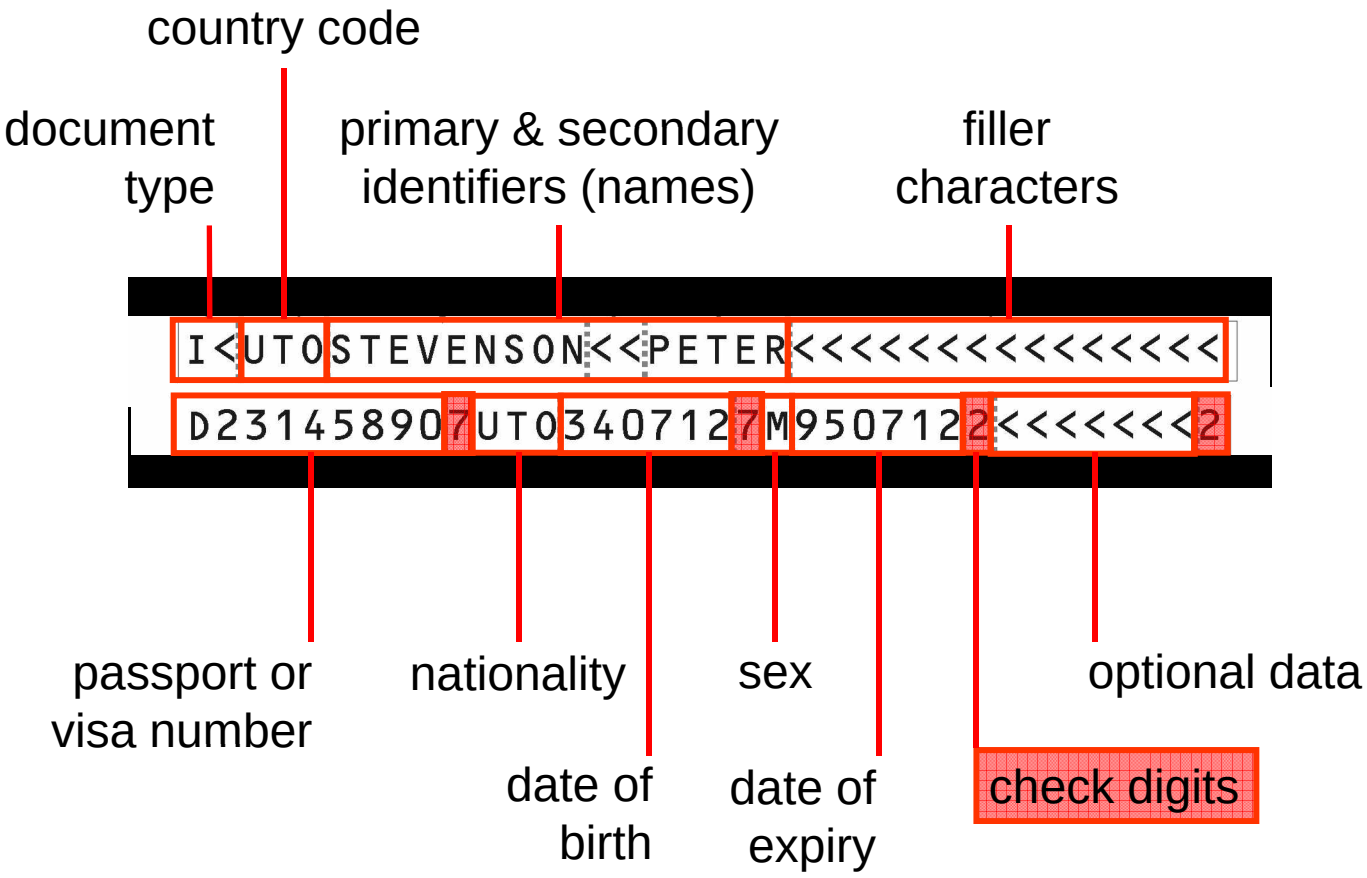
PACE: Introduction of a Card Access Number (CAN) will overcome issues at automated gates

Machine-readable zone: td1



Example of td2 (ID2-sized card)

Machine-readable zone: td2



MRP Summary

- 183 out of 190 countries issuing MRPs
- 7 countries still not issuing MRPs
- 2 countries issuing Diplomatic/Service MRPs, but their ordinary passports are still non MRP
- Nearly all of these countries have tenders or contracts in place
- ICAO requirement for all countries to issue MRPs by 1st April 2010
- No non MRPs after 2015

eMRTDs

- I will now hand over to Robin Chalmers

- Thank you for your attention