

# Activities of the NTWG

## Revision of Doc 9303

TAG\_22  
WP03

Tom Kinneging  
Convenor ISO/IEC JTC1 SC17 WG3

## → **Part 1 - Machine Readable Passports, Sixth edition - 2006**

- Volume 1 - Passports with Machine Readable data stored in OCR format
- Volume 2 - Electronically enabled Passports with Biometric Identification Capability

## → **Part 2 - Machine Readable Visas, Third edition - 2005**

## → **Part 3 - Machine Readable Official Travel Documents, Third edition - 2008**

- Volume 1 - MRtds with Machine Readable data stored in OCR format
- Volume 2 - Electronically enabled MRtds with Biometric Identification Capability

## → **Supplement to Doc 9303, Release 14 - 2014**

## → **7 Technical Reports**

# SUPPLEMENT TO DOC 9303

→ **Supplement Release 14 - 2014**

→ **176 pages**

→ **253 issues**

- Clarifications
- Interpretations
- Fixes

# TECHNICAL REPORTS

- **TR - MRTDs: History, Interoperability and Implementation**
- **TR - CSCA Countersigning and Master List issuance**
- **TR - LDS and PKI Maintenance**
- **TR - Supplemental Access Control for MRTDs**
- **TR - Machine reading options for td1 size MRTDs**
- **TR - Machine Assisted Document Security Verification**
- **TR - Transliteration of Arabic Script in MRTDs**

# DOC 9303 REVISION PROJECT

## → Three activities - Three phases

- Phase 1 - Re-structuring
- Phase 2 - Supplement incorporation
- Phase 3 - Technical Reports incorporation

## → Timeline when we started

- New structure design - Q4 2011
- Re-structuring finalized - Q3 2012
- Supplement issues incorporated - Q4 2012
- Technical Reports incorporated - Q3 2013
- Review cycles completed - Q1 2014
- Ready for translation / publication - Q2 2014

# DOC 9303 - 7<sup>TH</sup> EDITION

1. **Introduction;**
2. **Specifications for the Security of Design, Manufacture and Issuance of MRTDs;**
3. **Specifications common to all Machine Readable Travel Documents;**
4. **Specifications specific to TD3 size MRTDs, Machine Readable Passports;**
5. **Specifications specific to TD1 size MRTDs, Machine Readable Official Travel Documents;**
6. **Specifications specific to TD2 size MRTDs, Machine Readable Official Travel Documents;**
7. **Machine Readable Visas;**
8. **Reserved for future use (Emergency Travel Documents);**
9. **The Deployment of Biometric Identification and Electronic Storage of Data in MRTDs;**
10. **Logical Data Structure;**
11. **Security Protocols;**
12. **Public Key Infrastructure for Machine Readable Travel Documents.**



# DOC 9303 - 7<sup>TH</sup> EDITION, PART 1

<b>1</b>	<b>FOREWORD</b>	<b>1</b>
<b>2</b>	<b>SCOPE</b>	<b>2</b>
<b>3</b>	<b>GENERAL CONSIDERATIONS</b>	<b>3</b>
3.1	ICAO's Leadership Role	3
3.2	Relative Costs and Benefits of Machine Readable Travel Documents	3
3.3	Operations	3
3.4	Note on the Supplement	4
3.5	Endorsement by ISO	4
<b>4</b>	<b>DEFINITIONS AND REFERENCES</b>	<b>5</b>
4.1	Acronyms	5
4.2	Terms and Definitions	7
4.3	Key Words	20
4.4	Object Identifiers	21
4.5	The use of Notes	22
<b>5</b>	<b>GUIDANCE ON THE USE OF DOC 9303</b>	<b>23</b>
5.1	Doc 9303 Composition	23
5.2	Relationship between MRTD Form Factors and relevant Doc 9303 Parts	24
<b>6</b>	<b>REFERENCES (NORMATIVE)</b>	<b>25</b>

# DOC 9303 - 7<sup>TH</sup> EDITION, PART 2

<b>1</b>	<b>SCOPE.....</b>	<b>1</b>
<b>2</b>	<b>SECURITY OF THE MRTD AND ITS ISSUANCE .....</b>	<b>2</b>
<b>3</b>	<b>MACHINE ASSISTED DOCUMENT VERIFICATION.....</b>	<b>3</b>
3.1	Feature Types.....	3
3.2	Basic Principles .....	4
3.3	Machine Authentication and eMRTDS .....	5
<b>4</b>	<b>SECURITY OF MRTD PRODUCTION AND ISSUANCE FACILITIES.....</b>	<b>6</b>
<b>5</b>	<b>PROVISION OF INFORMATION ON NEWLY ISSUED MRTDS.....</b>	<b>7</b>
<b>6</b>	<b>PROVISION OF INFORMATION ON LOST AND STOLEN MRTDS .....</b>	<b>8</b>
	<b>APPENDIX A SECURITY STANDARDS FOR MRTDS (INFORMATIVE) .....</b>	<b>9</b>
A.1	Scope.....	9
A.2	Introduction .....	9
A.3	Basic Principles .....	9
A.4	Main threats to the security of travel documents .....	10
A.5	Security Features and Techniques .....	11
	<b>APPENDIX B MACHINE ASSISTED DOCUMENT SECURITY VERIFICATION (INFORMATIVE) ....</b>	<b>21</b>
B.1	Scope.....	21
B.2	Document Readers and Systems for Machine Authentication .....	21
B.3	Security features and their application for Machine Authentication.....	22
B.4	Selection criteria for machine verifiable security features .....	30
	<b>APPENDIX C THE PREVENTION OF FRAUD ASSOCIATED WITH THE ISSUANCE PROCESS</b>	
	<b>(INFORMATIVE) .....</b>	<b>31</b>
C.1	Scope.....	31
C.2	Fraud and its prevention .....	31
C.3	Recommended measures against fraud.....	31
C.4	Procedures to combat fraudulent applications .....	32
C.5	Control of issuing facilities .....	33

# DOC 9303 - 7<sup>TH</sup> EDITION, PART 3

<b>5 CODES FOR NATIONALITY, PLACE OF BIRTH, LOCATION OF ISSUING STATE/AUTHORITY AND OTHER PURPOSES</b>	<b>3</b>
<b>2 PHYSICAL CHARACTERISTICS OF MRIDS</b>	<b>23</b>
<b>6 TRANSLITERATIONS RECOMMENDED FOR USE BY STATES</b>	<b>28</b>
<b>3 VISUAL INSPECTION ZONE (VIZ)</b>	<b>3</b>
<b>APPENDIX A EXAMPLES OF CHECK DIGIT CALCULATION (INFORMATIVE)</b>	<b>35</b>
3.1 Languages and Characters	5
3.2 Typefaces and the Size	5
<b>APPENDIX B ARABIC TRANSLITERATION -- DETAILS AND EXAMPLES (INFORMATIVE)</b>	<b>39</b>
3.3 Captions/Fields	5
3.4 Example of Transliteration for Standard Arabic	39
3.5 Convention for Writing the Name of the Holder	8
3.6 Recommended Transliteration Scheme for Other Languages	40
3.7 Representation of Issuing State or Organization	6
3.8 Recommended Transliteration Scheme for Moroccan, Tunisian and Maghrib Arabic	41
3.9 Representation of Nationality	6
Reference (NORMATIVE)	42
3.7 Representation of Place of Birth	7
3.8 Representation of Dates	7
3.9 Displayed Identification Features of the Holder	9
<b>4 MACHINE READABLE ZONE (MRZ)</b>	<b>17</b>
4.1 Purpose of the MRZ	17
4.2 Properties of the MRZ	17
4.3 Constraints of the MRZ	17
4.4 Print Specifications	17
4.5 Machine Reading Requirements and the Effective Reading Zone	18
4.6 Convention for Writing the Name of the Holder	19
4.7 Representation of Issuing State or Organization and Nationality of Holder	20
4.8 Representation of Dates	20
4.9 Check Digits in the MRZ	21
4.10 Characteristics of the MRZ	21
4.11 Quality Specifications of the MRZ	21

# DOC 9303 - 7<sup>TH</sup> EDITION, PART 4

<b>1</b>	<b>SCOPE.....</b>	<b>1</b>
<b>2</b>	<b>CONSTRUCTION AND DIMENSIONS OF THE MRP AND MRP DATA PAGE.....</b>	<b>2</b>
2.1	Construction.....	2
2.2	MRP data page nominal dimensions.....	2
2.3	MRP data page edge tolerances .....	2
2.4	MRP data page margins .....	2
2.5	MRP data page thickness.....	3
2.6	MRP dimensions.....	3
<b>3</b>	<b>GENERAL LAYOUT OF THE MRP DATA PAGE.....</b>	<b>4</b>
3.1	MRP Zones .....	4
3.2	Content and use of zones.....	5
3.3	Dimensional flexibility of Zones I to V.....	8
<b>4</b>	<b>CONTENTS OF THE MRP DATA PAGE.....</b>	<b>11</b>
4.1	Visual Inspection Zone (VIZ) (Zones I through VI) .....	11
4.2	Machine Readable Zone (MRZ) (Zone VII) .....	15
4.3	Representation of the issuing State or organization and nationality of holder in the MRZ and the VIZ .....	21
	<b>APPENDIX A - EXAMPLES OF A PERSONALIZED MRP DATA PAGE.....</b>	<b>22</b>
	<b>APPENDIX B – CONSTRUCTION OF THE MACHINE READABLE ZONE OF THE PASSPORT DATA PAGE .....</b>	<b>24</b>
	<b>REFERENCES .....</b>	<b>25</b>

# DOC 9303 - 7<sup>TH</sup> EDITION, PART 5

<b>1</b>	<b>SCOPE</b>	<b>1</b>
<b>2</b>	<b>DIMENSIONS OF THE TD1-SIZE MROTD</b>	<b>1</b>
2.1	Nominal dimensions	1
2.2	Edge tolerances	1
2.3	Margins	2
2.4	Thickness	2
<b>3</b>	<b>GENERAL LAYOUT OF THE TD1 SIZE MROTD</b>	<b>2</b>
3.1	TD1 Zones	3
3.2	Content and use of zones	4
3.3	Dimensional flexibility of Zones I to V	6
<b>4</b>	<b>CONTENTS OF A TD1-SIZE MROTD</b>	<b>8</b>
4.1	Visual Inspection Zone (VIZ) (Zones I through VI)	8
4.2	Machine Readable Zone (MRZ) (Zone VII)	10
<b>APPENDIX A</b>	<b>EXAMPLES OF A PERSONALIZED TD1-SIZE MROTD</b>	<b>17</b>
<b>APPENDIX B</b>	<b>CONSTRUCTION OF THE MACHINE READABLE ZONE OF A TD1-SIZE MROTD ..</b>	<b>19</b>
<b>APPENDIX C</b>	<b>TECHNICAL SPECIFICATIONS FOR A MACHINE READABLE CREW MEMBER</b>	
<b>CERTIFICATE (CMC)</b>		<b>20</b>
C.1	Scope	20
C.2	Content and use of zones	20
<b>REFERENCES</b>		<b>22</b>

# DOC 9303 - 7<sup>TH</sup> EDITION, PART 6

- 1 SCOPE.....1
- 2 DIMENSIONS OF THE TD2 SIZE MROTD.....1
  - 2.1 Nominal dimensions. ....1
  - 2.2 Edge tolerances.....1
  - 2.3 Margins.....2
  - 2.4 Thickness.....2
- 3 GENERAL LAYOUT OF THE TD2 SIZE MROTD TDTD .....3
  - 3.1 TD2 Zones .....3
  - 3.2 Content and use of zones.....4
  - 3.3 Dimensional flexibility of Zones I to V .....6
- 4 CONTENTS OF A TD2-SIZE MROTD .....8
  - 4.1 Visual Inspection Zone (VIZ) (Zones I through VI) .....8
  - 4.2 Machine Readable Zone (MRZ) (Zone VII) .....10
- APPENDIX A - EXAMPLES OF A PERSONALIZED TD2-SIZE MROTD.....16
- APPENDIX B - CONSTRUCTION OF THE MACHINE READABLE ZONE OF A TD2-SIZE MROTD18
- REFERENCES.....19

# DOC 9303 - 7<sup>TH</sup> EDITION, PART 7

<b>1</b>	<b>SCOPE OF OPTIONAL BARCODES ON MACHINE-READABLE VISAS</b> .....	<b>34</b>
<b>2</b>	<b>TECHNICAL SPECIFICATIONS FOR FORMAT-A MACHINE-READABLE VISAS (MRV-A)</b> .....	<b>34</b>
2.1	Scope.....	34
2.2	Definition.....	35
2.3	Dimensions and Placement of the MRV-A.....	35
2.4	Location of Bar Code(s).....	35
2.5	General Layout of the MRV-A.....	35
2.6	Quality of Bar Code(s).....	35
2.7	Content, Use and Dimensional Flexibility of Zones.....	35
2.8	Symbolologies and Logical Data Structure.....	35
2.9	Detailed Layout.....	35
2.10	Machine Reading of the Bar Code(s).....	35
2.11	Machine Readable Zone (MRZ) (Mandatory Zone VII).....	35
<b>APPENDIX A</b>	<b>EXAMPLES OF PERSONALIZED MRV'S (INFORMATIVE)</b> .....	<b>37</b>
A.1	Portrait.....	37
A.2	MRV-A Examples.....	37
A.3	MRV-A Diagrams.....	37
A.4	MRV-B Examples.....	37
<b>3</b>	<b>TECHNICAL SPECIFICATIONS FOR FORMAT-B MACHINE-READABLE VISAS (MRV-B)</b> .....	<b>18</b>
<b>APPENDIX B</b>	<b>CONSTRUCTION OF THE MRZ (INFORMATIVE)</b> .....	<b>39</b>
B.1	Dimensions and Placement of the MRV-B.....	39
B.2	MRV-A MRZ-Construction.....	39
B.3	General Layout of the MRV-B.....	39
B.4	MRV-B MRZ-Construction.....	39
B.5	Content, Use and Dimensional Flexibility of Zones.....	39
<b>APPENDIX C</b>	<b>POSITIONING IN PASSPORT (INFORMATIVE)</b> .....	<b>41</b>
C.1	Machine Readable Zone (MRZ) (Mandatory Zone VII).....	41
C.2	MRV-A Positioning.....	41
C.3	Data Structure of Machine Readable Data for the MRV-B.....	41
C.4	MRV-B Positioning.....	41
C.5	Portrait.....	41
<b>APPENDIX D</b>	<b>MATERIALS AND PRODUCTION METHODS (INFORMATIVE)</b> .....	<b>43</b>
D.1	MRV-B Diagrams.....	43
<b>REFERENCES (NORMATIVE)</b> .....		<b>45</b>

## Part 8 - Specifications specific to Emergency Travel Documents (TBD)

# DOC 9303 - 7<sup>TH</sup> EDITION, PART 9

<b>1</b>	<b>SCOPE</b>	<b>1</b>
<b>2</b>	<b>EMRTD</b>	<b>2</b>
2.1	Conformance to Doc 9303	2
2.2	Validity Period for an eMRTD	2
2.3	Chip Inside Symbol	2
2.4	Warning regarding Care in Handling an eMRP	3
<b>3</b>	<b>BIOMETRIC IDENTIFICATION</b>	<b>4</b>
3.1	ICAO Vision on Biometrics	4
3.2	Key Considerations	4
3.3	Key Processes with respect to Biometrics	5
3.4	Applications for a Biometric Solution	6
3.5	Constraints on Biometric Solutions	7
<b>4</b>	<b>THE SELECTION OF BIOMETRICS APPLICABLE TO EMRTDS</b>	<b>8</b>
4.1	Primary Biometric: Facial Image	8
4.2	Optional Additional Biometrics	10
<b>5</b>	<b>STORAGE OF THE BIOMETRIC AND OTHER DATA IN A LOGICAL FORMAT IN A CONTACTLESS IC</b>	<b>12</b>
5.1	Characteristics of the Contactless IC	12
5.2	Logical Data Structure	12
5.3	Security and Privacy of the Stored Data	12
<b>6</b>	<b>TEST METHODOLOGIES FOR (E)MRTDS</b>	<b>14</b>
	<b>PLACEMENT OF THE CONTACTLESS IC IN AN EMRP (INFORMATIVE)</b>	<b>15</b>
A.1	Location of the IC and its Associated Antenna	15
A.2	Precautions in eMRTD manufacture	15
A.3	Reading both the OCR and the data on the IC	15
A.4	Reader construction	16
	<b>PROCESS FOR READING EMRTDS (INFORMATIVE)</b>	<b>17</b>
	<b>REFERENCE (NORMATIVE)</b>	<b>18</b>

# DOC 9303 - 7<sup>TH</sup> EDITION, PART 10

<b>6</b>	<b>DATA ELEMENTS FORMING DATA GROUPS 1 THROUGH 16</b>	<b>20</b>
<b>2</b>	<b>REQUIREMENTS OF THE LOGICAL DATA STRUCTURE</b>	<b>21</b>
6.1	DATA GROUP 1 - Machine Readable Zone Information (REQUIRED)	21
6.2	DATA GROUP 2 - Encoded Identification Features – Face (REQUIRED)	23
6.3	DATA GROUP 3 - Additional Identification Feature - Finger(s) (OPTIONAL)	25
6.4	DATA GROUP 4 - Additional Identification Feature – Iris(es) (OPTIONAL)	28
6.5	DATA GROUP 5 - Displayed Portrait (OPTIONAL)	31
<b>3</b>	<b>APPLICATION PROFILE FOR THE CONTACTLESS IC</b>	<b>32</b>
6.6	DATA GROUP 6 - Displayed Portrait (OPTIONAL)	32
6.7	DATA GROUP 7 - Displayed Signature or Usual Mark (OPTIONAL)	32
6.8	DATA GROUP 8 - Data Feature(s) (OPTIONAL)	33
6.9	DATA GROUP 9 - Structure Feature(s) (OPTIONAL)	33
6.10	DATA GROUP 10 - Substance Feature(s) (OPTIONAL)	34
6.11	DATA GROUP 11 - Additional Personal Detail(s) (OPTIONAL)	35
6.12	DATA GROUP 12 - Additional Document Detail(s) (OPTIONAL)	37
6.13	DATA GROUP 13 - Optional Details(s) (OPTIONAL)	38
6.14	DATA GROUP 14 - Security Options (CONDITIONAL)	38
6.15	DATA GROUP 15 - Active Authentication Public Key Info (CONDITIONAL)	39
6.16	DATA GROUP 16 - Person(s) to Notify (OPTIONAL)	39
<b>4</b>	<b>FILE STRUCTURE SPECIFICATIONS</b>	<b>8</b>
4.1	Application Selection - DF	9
4.2	Data Groups	9
4.3	Data Elements Encoding Rules	9
4.4	Normative Tags Used in LDS Context	10
4.5	LDS Versioning	13
<b>5</b>	<b>ELEMENTARY FILES</b>	<b>14</b>
5.1	Header and Data Group Presence Information EF.COM (REQUIRED)	14
5.2	Document Security Object EF.SOD (REQUIRED)	14
5.3	EF.CardAccess (CONDITIONAL)	19

# DOC 9303 - 7<sup>TH</sup> EDITION, PART 11

<b>9</b>	<b>COMMON SPECIFICATIONS</b>	<b>30</b>
<b>2</b>	<b>9.1 ASSUMPTIONS AND NOTATIONS</b>	<b>37</b>
9.1	Assumptions and Notations	37
9.2	Public Key Data Objects	33
2.1	Notations	37
9.3	Standardized Domain Parameters	34
<b>3</b>	<b>9.4 SECURING ELECTRONIC DATA</b>	<b>38</b>
9.4	Key Agreement Mechanisms	38
9.5	Key Derivation Mechanism	35
<b>4</b>	<b>ACCESS TO THE CONTACTLESS IC</b>	<b>10</b>
9.6	Secure Messaging	36
4.1	Compliant Configurations	10
<b>APPENDIX A</b>	<b>ENTROPY OF MRZ-DERIVED ACCESS KEYS (INFORMATIVE)</b>	<b>41</b>
4.2	Chip Access Procedure	11
<b>APPENDIX B</b>	<b>POINT ENCODING FOR THE ECDH-INTEGRATED MAPPING (INFORMATIVE)</b>	<b>42</b>
4.4	Password Authenticated Connection Establishment	14
B.1	High-level Description of the Point Encoding Method	42
<b>5</b>	<b>B.2 AUTHENTICATION OF DATA COORDINATES</b>	<b>22</b>
B.2	Authentication of Data Coordinates	22
B.3	Implementation for Jacobian Coordinates	43
5.1	Passive Authentication	22
<b>APPENDIX C</b>	<b>WORKED EXAMPLE: BASIC ACCESS CONTROL (INFORMATIVE)</b>	<b>44</b>
<b>6</b>	<b>AUTHENTICATION OF THE CONTACTLESS IC</b>	<b>24</b>
C.1	Compute Keys from Key Seed ( $K_{seed}$ )	44
6.1	Active Authentication	24
C.2	Derivation of Document Basic Access Keys ( $K_{Enc}$ and $K_{MAC}$ )	45
6.2	Passive Authentication	25
<b>7</b>	<b>C.3 ADDITIONAL ACCESS CONTROL MECHANISMS</b>	<b>26</b>
C.3	Additional Access Control Mechanisms	26
C.4	Secure Messaging	48
7.1	Extended Access Control for Additional Biometrics	27
<b>APPENDIX D</b>	<b>WORKED EXAMPLE: PASSIVE AUTHENTICATION (INFORMATIVE)</b>	<b>51</b>
<b>APPENDIX E</b>	<b>WORKED EXAMPLE: ACTIVE AUTHENTICATION (INFORMATIVE)</b>	<b>52</b>
<b>APPENDIX F</b>	<b>WORKED EXAMPLE: PACE – GENERIC MAPPING (INFORMATIVE)</b>	<b>28</b>
8.1	Basic Access Control	28
8.2	Password Authenticated Connection Establishment	28
8.3	Passive Authentication	28
8.4	Active Authentication	28
8.5	Extended Access Control to Additional Biometrics	28
8.6	Decryption of Additional Biometrics	29

# DOC 9303 - 7<sup>TH</sup> EDITION, PART 12

<b>7</b>	<b>CERTIFICATE AND CRL PROFILES</b>	<b>13</b>
7.1	Overview of the Public Key Infrastructure	13
7.2	CRL Profile	22
<b>3</b>	<b>ROLES AND RESPONSIBILITIES</b>	<b>4</b>
<b>8</b>	<b>CSCA MASTER LIST STRUCTURE</b>	<b>24</b>
3.1	Country Signing Certification Authority	4
8.1	Document Types	24
8.2	Inspection System Specification	24
3.4	Master List Signer	5
<b>APPENDIX A - LIFETIMES (INFORMATIVE)</b>		<b>26</b>
<b>4</b>	<b>KEY MANAGEMENT</b>	<b>6</b>
A.1	Example 1	26
A.2	Document Signer Keys and certificates	26
A.3	CSCA Keys and Certificates	26
4.3	Certificate Revocation	8
<b>APPENDIX B - CERTIFICATE &amp; CRL PROFILE REFERENCE TEXT (INFORMATIVE)</b>		<b>27</b>
4.4	Cryptographic Algorithms	9
<b>APPENDIX C - EARLIER CERTIFICATE PROFILES (INFORMATIVE)</b>		<b>34</b>
<b>5</b>	<b>DISTRIBUTION MECHANISMS</b>	<b>10</b>
<b>APPENDIX D - REC 5280 VALIDATION COMPATIBILITY (INFORMATIVE)</b>		<b>37</b>
5.1	PKD Distribution Mechanism	11
5.2	Bilateral Exchange Distribution Mechanism	37
5.3	Steps Relevant to eMRTD	10
5.3	Steps not Required by eMRTD	10
D.2	Modifications required to process CRLs	40
<b>6</b>	<b>PKI TRUST AND VALIDATION</b>	<b>13</b>
References (normative)		41
6.1	Trust Anchor Management	13
6.2	Certificate/CRL Validation and Revocation Checking	14

# THE REVISED DOC 9303

## → Differences

- All Appendices are Informative
- Doc 9303-n instead of Doc 9303 Part n (closer to ISO practice)
- Choices in consistent formatting titles/text/figures/tables/notes/even bullets (not consistent between old parts)
- Consistent terminology, f.i. form factor instead of type, document type, model, etc.
- TD1, TD2, TD3 - no more upper-lower case distinguishing
- MRTD/eMRTD (general), MRP/eMRP (TD3 passport book), MROTD/eMROTD (TD1 & TD2 official travel documents), MRV-A and MRV-B
- (Popular) term “ePassport” not formally used anymore; it is in terms and definitions

# THE REVISED DOC 9303

## → Supplement R14 issues (resulting from received comments)

- Data Group read out process
- DG11 DE ordering (inconsistency)
- Extended Length descriptors (TF5)
- Large EFs (TF5)
- SELECT MF (TF5)
- EF.ATR/INFO (TF5)
- Use of key words
- Discrepancies between Doc 9303 and TR-RF and Protocol testing (TF4R)
- Use of cryptographic algorithms

# THE REVISED DOC 9303

## → Maintenance

- Seventh edition, Revision 1
- Changes, updates, etc. to one or more individual parts lead to Seventh Edition, Revision 2 (for that/those parts only) and so on.
- This might enable us to stop issuing Supplements
- (As before) every 5 years new edition
- Only New Editions will be ISO balloted, not the individual parts (releases)

## → Doc 9303 6<sup>th</sup> / 3<sup>rd</sup> edition

**1049** pages

## → Doc 9303 7<sup>th</sup> edition

**424** pages

# DOC 9303 REVISION PROJECT

## → Timeline now

- Project started Mid 2011
- Phases have been completed
- Review cycles completed
- Review board: 10/11/2013 - 15/12/2013; resolved 7-9 January 2014
- SCC: 12/02/2014 - 12/03/2014; resolved 24-25 March 2014
- **Presentation to TAG 22**
- ICAO editorial work and translation
  - Supplement R14
  - WP04 - Technical Report Travel Document Deviation List Issuance
  - WP05 - Updated Technical Report Supplemental Access Control
  - WP07 - Updated Technical Report LDS and PKI Maintenance
  - WP12 - Proposed Text for Chapters 4 and 6 of Part 2 of Restructured ICAO Doc 9303
  - WP13 - Definition of Captions in ICAO Doc 9303 (Part 1 of Draft 7<sup>th</sup> edition)
- Publication - End 2014

# DOC 9303 REVISION PROJECT

## → The team

- Jens Bender
- Sharon Boeyen
- Nicoletta Bouwman
- Malcolm Cuthbertson †
- Barry Kefauver
- Tom Kinneging
- Keith Mayhew
- Rajesh Rajeshkumar
- Mark Stafford

## → Thanks to the reviewers

- Elek Adamski
- Tony Dean
- Mike Ellis
- JISC
- Sylvia Kolligs - Tuffery
- Dennis Kuegler
- Dwight McManus
- Oberthur
- Patrice Plessis
- Jonathan Rochon
- Takahiko Sakai
- Claudia Schwendimann
- Uwe Seidel
- Jens Urmann
- Faith Woods

## → The TAG/MRTD is invited to

- recognize the work of the editorial team ISO/IEC JTC1 SC17 WG3/TF2 working on the seventh edition; and
- endorse the new format of the seventh edition of Doc 9303 and its contents; and
- decide on the future revision process as indicated in 3.5 and 3.6 of WP03; and
- request the ICAO TRIP secretariat to undertake the necessary actions to start the ICAO editorial work in cooperation with TF2 and translation into the official ICAO languages; and
- endorse the publication of the seventh edition of Doc 9303 once the English version has been released by the ICAO editors, preferably before end 2014 followed by the other languages as soon as they are released.

# THANK YOU FOR YOUR ATTENTION



**Tom KINNEGING**

Senior Expert Standardization  
Manager R&D (CESE / CESP) Morpho BV

[tom.kinneging@morpho.com](mailto:tom.kinneging@morpho.com)

M +31 65 12 13 702

T +31 23 79 95 218

Morpho B.V.  
P.O. Box 5300, 2000 GH Haarlem, The Netherlands  
[www.morpho.com](http://www.morpho.com)



International  
Organization for  
Standardization