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ICAO Public Key Directory (PKD) How to join

Christiane DerMarkar

PKD Officer



Strengthening Aviation Security through Improved Traveller Identification



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It's not complicated : All you have to do is....

- Find out who is responsible
- Check legislation and budget
- Different organizations in different states (try to make it as simple as possible)
- Contact ICAO or any PKD Board Member or PKD Participant if you have questions



Steps to join the PKD

1. Deposit a Notice of Participation and Notice of Registration with the Secretary General of ICAO
2. Once the signed Notice of Participation is received by ICAO, the officer designated by the State will receive a Registration Fee invoice of US \$15,900.00
3. **The payment of the Registration Fee to ICAO is necessary in order to become a PKD participant.**
4. Securely submit to ICAO and all Participants, the CSCA certificate
5. Use the PKD : upload/Download certificates
6. <http://www.icao.int/Security/FAL/PKD/Pages/How-to-Participate.aspx>



MEMORANDUM OF UNDERSTANDING (MOU) REGARDING PARTICIPATION AND COST SHARING IN THE ELECTRONIC MACHINE READABLE TRAVEL DOCUMENTS ICAO PUBLIC KEY DIRECTORY (PKD)

NOTICE OF PARTICIPATION

The Ministry of Interior (name of the Authority designated by the Participant concerned as its authorized organ)

of Republic of Utopia (name of Participant)

hereby gives the Secretary General of the International Civil Aviation Organization (ICAO) notice of participation of

Identity and Passport Service Authority Moon Street no. 123, 54321 Utopia City, Republic of Utopia (name and address of the Participant)

in the Memorandum of Understanding (MoU) Regarding Participation and Cost Sharing in the Electronic Machine Readable Travel Documents ICAO Public Key Directory (ICAO PKD).

NOTE: Participation by a non-State entity in the ICAO PKD (the functions of which are technical and operational) will not afford such non-State entities the rights or privileges accorded to ICAO Contracting States under the Chicago Convention.

Signed at Utopia City on 13 July 2010 (place) (date)

On behalf of Republic of Utopia

Name of Authority Ministry of Interior

Name, title Mr. Dolittle, Head of Division for Documents Law

Signature [Handwritten Signature]

http://www.icao.int/Security/FAL/PKD/Documents/PKDMoU(includeslanguageversion(s))/NoticeofParticipation-Model.pdf

1. Select PKD documents



[http://www.icao.int/Security/FAL/PKD/Documents/PKDMoU\(includeslanguageversion\(s\)\)/NoticeofRegistration-Model.pdf](http://www.icao.int/Security/FAL/PKD/Documents/PKDMoU(includeslanguageversion(s))/NoticeofRegistration-Model.pdf)

1. Select PKD documents

MODEL NOTICE OF REGISTRATION

REGISTRATION FOR PARTICIPATION IN ICAO PKD	
PASSPORT DATA	
Estimated number of Document Signer Certificates that will be issued each year:	12
Estimated number of Certificate Revocation Lists that will be issued each year:	8
Number of expired and valid Country Signing CA Certificates:	3
Number of expired and valid Country Signing CA Link Certificates:	2
Average validity period for Country Signing CA (Link) Certificates:	10 years
Estimated number of Master Lists issued each year:	12
Estimated number of entries per Master List:	50
eMRTD AUTHORITY (EMA) DETAILS	
Name:	Mr. Dolittle, Ministry of Interior
Title:	Head of Division for Documents Law
Address:	Moon Street no. 111, 55555 Utopia City, Republic of Utopia
Telephone:	+333-222-1111 9999
Fax:	+333-222-1111 8888
E-Mail:	Doc@Mol.gov.uto
Designation (eMRTD System):	chief ePassports and ID-cards adviser
Senior Officer (eMRTD System):	Mr. Domuch, Ministry of Interior, CIO
eMRTD COUNTRY SIGNING CERTIFICATE AUTHORITY (CSCA)	
Name:	Mr. Dosomething, Identity and Passport Service Authority
Title:	Senior PKI Officer
Address:	Moon Street no. 123, 54321 Utopia City, Republic of Utopia
Telephone:	+333-222-2222 9999
Fax:	+333-222-2222 7777
E-Mail:	CSCA@ema.gov.uto
Designation (eMRTD System):	Head of N-PKD



01.01.2016 : Fees reduction

- A. Registration Fee: US \$15,900
- B. 2017 Annual Fees based on 54 Participants: US \$ 37,300
- C. More Participants = reduction in Operators and ICAO Annual Fees



Active Participants	Operator and ICAO Fees
50 Participants	37,000.00 US\$
55 Participants	34,500.00 US\$
60 Participants	32,500.00 US\$
65 Participants	30,900.00 US\$



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Active Participation PKD Integration

1. A PKD Participant should start active Participation (CSCA Import and PKD Upload) at the latest 15 months after paying The Registration Fee and becoming Effective participants.
2. Participant are required to have completed the testing of the PKD interface and successfully imported the CSCA into the HSM in Montreal.
3. Full conformity to Doc 9303 is required.



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Becoming Active


1. Every new Participant is given two documents:
 - Interface Specifications document - the protocol for accessing the PKD.
 - PKD Pre-Production Environment Procedures
2. The Participant is required to be familiar with both documents before starting the PKD testing and integration.
3. The pre-production system is available for all participants in order to:
 - Test the interface between their national infrastructure and the ICAO PKD System
 - Test their PKD Data prior to the upload to the ICAO PKD Production System
 - Check conformance of the PKD Data against the PKD Upload Conformance Checks
4. Website for Conformance Checks: allows for checking the certificates before they are imported or uploaded to the PKD actual LDAP upload.
5. The website can be accessed via the following URL, using certificate-based authentication with an upload certificate: <https://reference.upload.pkd.icao.int>



Conformance Website - Windows Internet Explorer

https://reference.upload.pkd.icao.int/pkdvalidation#top

Conformance Website



CONFORMANCE WEBSITE

DESCRIPTION

The conformance website for ICAO PKD participating states provides a conformance check of PKD data (Master Lists, Document Signer Certificates, Certificate Revocation Lists) and CSCA certificates. The checks will report compliance to B-Tec/26 and B-Tec/48.

Step 1 - Select your item to be validated

- Masterlist
- Document Signer Certificate - (DS Certificate)
- Certificate Revocation List (CRL)
- Country Signing Certificate Authority Certificate - (CSCA Certificate)
- Country Signing Certificate Authority Link Certificate - (CSCA Link Certificate)

Step 2 - Select the corresponding file on your PC

Step 3 - Send the file to get the validation result

Done Internet | Protected Mode: Off 100%



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CSCA IMPORT

1. The Participant should check the CSCA certificate to be imported by the means of the ICAO PKD conformance website (<https://reference.upload.pkd.icao.int/>)
2. In case of issues with the certificate the participant should contact the PKD support of Veridos (pkdsupport@verdios.com) for assistance.
3. If conformance is confirmed, the PKD Participant will submit its CSCA certificate along with the electronic thumbprint to ICAO by electronic means for registering the key ceremony.
4. The credentials of the PKD Participant representative will need to be submitted: Passport # and Identity Details
5. A date will for the import will be fixed
6. On the date of the import: In the presence of the State Representative and ICAO Security Officers, the CSCA is imported in the High Secure Module (HSM):
the anchor of trust for the PKD.
7. A protocol of the Import will be signed by both the PKD participant Representative and ICAO confirming that the Anchor of Trust has been imported into the PKD HSM



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CSCA IMPORT Protocol



Protocol for Key Ceremony with Representative

Participant	CO
Key Ceremony ID	351
Created by	Helen Manentis
Created at	Oct 26, 2016 2:00:10 PM

Representative	
Sex	MALE
Title	Representative of Colombia on the Council of ICAO
Full Name	Alberto Munoz Gomez
Date of Birth	04/11/1959
E-Mail	
ID Type	Passport
ID Number	DP046143
ID Expiration Date	Jun 15, 2020

CSCA Certificate	
Fingerprint	3D:47:9E:80:BE:C0:54:BF:13:19:C9:18:49:A4:7B:AA:D4:7C:E6:80
Certificate ID	CN=Government of Colombia CSCA,OU=Certification Authorities,O=Colombia,C=CO / 55770B5A

PKD Operator	Helen Manentis
Imported at	Oct 27, 2016 8:55:03 PM

PKD Officer	Christiane DerMarkar
Imported at	Oct 27, 2016 8:57:18 PM


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Representative



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Contact Details

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Email: cdermarkar@icao.int