Organization for Security and Co-operation in Europe
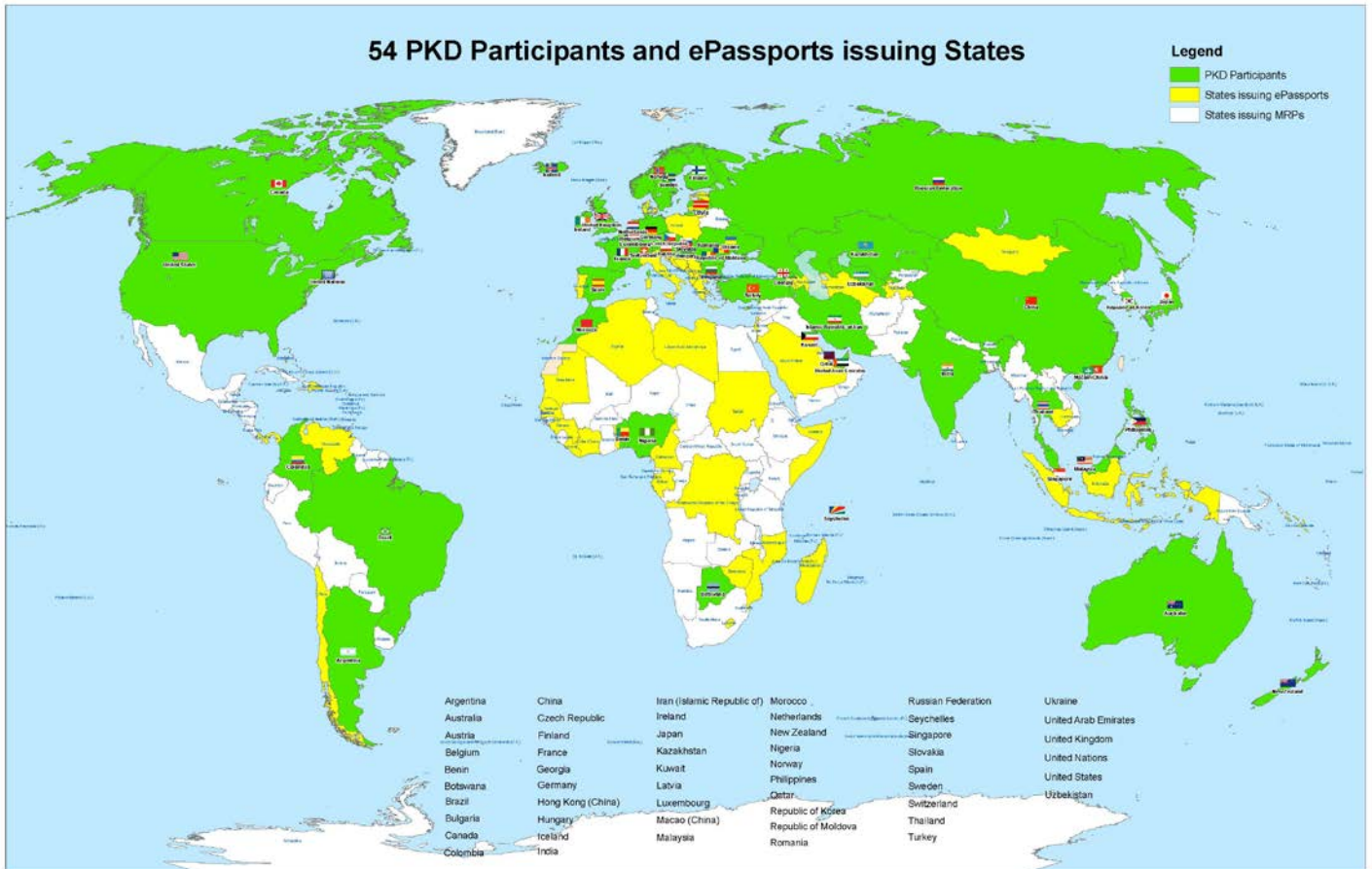
International Civil Aviation Organization - Public Key Directory (ICAO PKD) in the OSCE Region

14 October 2016

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This document aims at highlighting membership of the ICAO PKD among OSCE participating States and Partners for Co-operation and outlines the support the Transnational Threats Department / Action against Terrorism Unit (TNTD/ATU) offers through national seminars in exploring the benefits and technical necessities of joining the ICAO PKD as well as workshops on facilitating the participation in and the use of the ICAO PKD. This overview supports MC.DEC/11/09.

What is the ICAO Public Key Directory?

The PKD is a repository for certificates that are part of the validation process of ePassports making use of Public Key Infrastructure (PKI) technology. Specifically, the validation of certificates enables border control authorities to determine whether a document held by a traveller has been issued by the responsible authority; whether biographic and biometric information on the chip has been altered after issuance; as well as whether the certificates have been revoked. In sum, it is a more secure and faster identity verification process at border control.

What are the benefits of membership of the ICAO PKD?

- If the digital certificates are not properly checked through the PKD, electronic Machine Readable Travel Documents (e-MRTD) provide far less added security.

- PKD enables a simple, fast and cost-efficient way of validating e-MRTDs.

- Compromised or false chips are immediately detected.

- Multilateral data exchange is more efficient than bilateral diplomatic exchanges.

- Your citizens will be more respected at foreign borders.

- Through participation in ICAO PKD, states share experiences.

- Joining PKD is a proactive approach in fighting international terrorism.

- Many states want to participate: better to be first, rather than last.

Who are the current members of ICAO PKD?

Currently the ICAO PKD has 54 member states world-wide, of which 29 are OSCE participating States and 5 are OSCE Partners for Co-operation. Over half of OSCE participating States are now members of the ICAO PKD. See Annex 1 for a list, and Annex 2 for a map.

Since last year's update (SEC.GAL/0189/15), the number of member States has risen from 46 to 54, including 5 OSCE participating States: Romania, Finland, Georgia, Turkey, and Iceland.

An interactive map of ICAO ePassport issuing States Participants in Public Key Directory (PKD) can be found here: http://gis.icao.int/epassport/.

What is the mandate of the OSCE related to the ICAO PKD?

Recognizing the inseparable link between ePassports and the ICAO PKD, OSCE participating States adopted Ministerial Council Decision MC.DEC/11/09 in December 2009. The Decision calls upon participating States to consider becoming participants in the ICAO PKD and tasks the OSCE to raise awareness and to facilitate the participation in and the use of the ICAO PKD.[1]

In 2014, the **UN Security Council adopted Resolution 2178** which "reaffirms that all States shall prevent the movement of terrorists by effective border controls and controls on issuance of identity papers and travel documents, and through measures for preventing counterfeiting, forgery or fraudulent use of identity papers and travel documents". The 2014 OSCE Ministerial Council subsequently agreed on a **Declaration on the OSCE Role in Countering the Phenomenon of Foreign Terrorist Fighters in the Context of the Implementation of UN Security Council Resolutions 2170 (2014) and 2178 (2014)**, which calls on the OSCE Executive Structures to "support requesting participating States in the implementation of their commitments regarding travel document security and border management and to facilitate technical assistance in this field by Interpol and other relevant international organizations to requesting participating States."

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[1] MC.DEC/11/09 also encourages Partners for Co-operation to voluntarily implement this decision

What types of support does the OSCE offer States in relation to the ICAO PKD?

Given the increased political impetus and the growing awareness of the value of the ICAO PKD, TNTD/ATU is offering participating States, upon their request, national seminars to either raise awareness or to facilitate the participation in and the use of the ICAO PKD.

1. *Awareness Raising Seminar - Exploring the benefits and technical necessities of joining the ICAO PKD*

This type of seminar has successfully been conducted in 8 OSCE participating States: Uzbekistan, Moldova, Kyrgyzstan, Albania, Armenia, Turkmenistan, Tajikistan and Kazakhstan.

The seminar is <u>targeted at senior decision-makers and supporting staff preparing to make the decision on whether to apply for PKD membership</u>, and covers the following topics:

- General characteristics of ICAO PKD.

- The procedure and the motivation for joining the ICAO PKD, highlighting the advantages of the PKD over other methods to validate ePassport data.

- Administrative, technical and operational details of the ICAO PKD and ways to participate in it, including assistance available by the ICAO PKD entities as well as the OSCE. This will be coupled with a brief analysis of the national ePassport infrastructure from issuance to reading the document at the border.

2. *Workshop for States Planning on Joining the ICAO PKD.*

As a follow-up to the awareness-raising seminars, TNTD/ATU is planning to organize a series of workshops on "Tools and Templates for joining the ICAO Public Key Directory (PKD)" to prepare those States wishing to join the ICAO PKD with the necessary tools and templates they require. These workshops build on the information provided during the original awareness-raising seminars as part of Comprehensive ePassport Implementation Projects.

<u>The workshop targets operational team members who will be responsible for implementing the technical, operational and legal requirements of participating in the PKD</u>.

The follow-up workshops are primarily based around 5 topics, namely: (i) National Laws and Regulations; (ii) Registration with ICAO PKD; (iii) Planning of the National PKD; (iv) Integration with the ICAO PKD Service Provider; (v) Project Management.

A key element is the provision of step-by-step check-lists, which cover all the necessary steps for joining the PKD and can be used by the states themselves following the workshops. The workshop can also be tailored for States who have already joined the PKD but require some additional assistance on certain technical issues.

TNTD/ATU Projects in this area:

The work and activities of TNTD/ATU in this area have been supported by Extra Budgetary contributions from OSCE participating States and Partners for Co-operation through Extra-Budgetary project number 1101761 entitled "ICAO Public Key Directory Seminars and Workshops in the OSCE Area". It is estimated that each national seminar costs approx 15,000 EUR.

States interested in requesting the above-mentioned seminars or in providing donor support should contact Simon Deignan from TNTD/ATU for further information on this subject:

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Annex 1 – List of ICAO PKD participant countries and useful links

State	Joining Date	State	Joining Date
Australia (PKD Board Member)	19.03.2007	Bulgaria	12.10.2011
New Zealand (PKD Board Member)	19.03.2007	Luxembourg	30.11.2011
Singapore (PKD Board Member)	19.03.2007	Sweden (PKD Board Member)	01.12.2011
United Kingdom (PKD Board Member)	19.03.2007	United Nations	14.06.2012
Japan (PKD Board Member)	19.03.2007	Spain	10.07.2012
Canada (PKD Board Member)	19.03.2007	Russian Federation	31.08.2012
United States of America (PKD Board Member)	02.11.2007	Malaysia (PKD Board Member)	09.11.2012
Germany	01.11.2007	Argentina	13.12.2012
Republic of Korea	28.03.2008	Thailand	05.03.2013
France	19.06.2008	Ireland	08.03.2013
People's Republic of China (PKD Board Member)	26.11.2008	Republic of Moldova	11.06.2013
Republic of Kazakhstan	19.12.2008	Belgium	31.10.2013
India	12.02.2009	Brazil (PKD Board Member)	03.01.2014
Nigeria (PKD Board Member)	13.04.2009	Qatar	10.03.2014
Switzerland (Chair of PKD Board)	10.07.2009	Seychelles	14.03.2014
Ukraine	30.10.2009	Uzbekistan	19.03.2014
Latvia	28.06.2010	Philippines	21.03.2014
The Czech Republic	30.06.2010	Iran (Islamic Republic of)	18.05.2014
Macao, China	28.09.2010	Colombia	19.05.2015
United Arab Emirates (PKD Board Member)	25.10.2010	Romania	03.02.2016
Hong Kong, China	26.10.2010	Finland	26.02.2016
Slovak Republic	23.11.2010	Benin	03.03.2016
The Netherlands (PKD Board Member)	08.12.2010	Botswana	05.04.2016
Kingdom of Morocco	29.12.2010	Kuwait	20.04.2016
Austria	31.12.2010	Georgia	25.05.2016
Hungary	15.02.2011	Turkey	30.09.2016
Norway	20.06.2011	Iceland	30.09.2016

Useful links:

- Ministerial Council Decision on ICAO PKD: http://www.osce.org/secretariat/107806
- OSCE Travel Document Security Programme: http://www.osce.org/atu/73637
- Technical documents related to the operation of ICAO PKD, including Regulations for the ICAO Public Key Directory and the Procedures for the ICAO Public Key Directory, can be found on ICAO website: http://www.icao.int/security/mrtd/pages/ICAOPKD.aspx
- A Primer on the ICAO PKD: http://www.icao.int/Security/FAL/PKD/Documents/APrimeronthePublicKeyDirectory(includeslanguageversion(s))/APrimeronthePublicKeyDirectory.pdf