



TECHNICAL ADVISORY GROUP ON MACHINE READABLE TRAVEL DOCUMENTS

Seventeenth Meeting

(Montreal, 20 to 22 March 2007)

Agenda Item: 4 Implementation of the ICAO Public Key Directory

PROGRESS IN THE DEVELOPMENT OF THE ICAO PKD SERVICE

Presented by the Ad-Hoc Development Oversight Group (ADOG)

1. INTRODUCTION

1.1 In support of the PKI technical report, ICAO agreed to build and manage a centralized public key directory (ICAO PKD) service. To create this capability, ICAO NTWG established an Ad-Hoc Development Oversight Group (ADOG) to oversee the development of the ICAO PKD by the selected vendor (Netrust).

1.2 This report is intended as an update for the ICAO TAG on the progress of the ICAO PKD as provided by the ADOG on behalf of the ICAO NTWG.

2. TERMS OF REFERENCE

2.1 The ICAO PKD has been conceived as a central repository for Member State's Document Signers (DS) and Certificate Revocation Lists (CRL's) consistent with the ICAO PKI Technical Report and the latest release of ICAO 9303 Part 1 (Sixth Edition - 2006).

2.2 To implement the PKD, ICAO, with the support of the PKD Overview Group, selected Netrust as its partner for the implementation and operation of the PKD service through a competitive process.

2.3 In concert with this, ICAO moved forward in determining appropriate space for hosting the PKD at ICAO as well as establishing a Memorandum of Understanding (MOU) to be used by the participants.

2.4 The ADOG consisted of the following Member States: Australia, Canada, New Zealand, Singapore, United Kingdom, and the United States.

3. **KEY FINDINGS**

3.1 **Activities during several ADOG meetings from August through October, 2006**

3.1.1 During this period several milestones were met during working sessions conducted with the Secretariat. The overall design and development of the PKD was approved, various levels of testing were completed and approved, and review and acceptance of the planned PKD facility was finalized.

3.2 **Results of the last ADOG meeting in Montreal - Feb. 1-2, 2007**

3.2.1 All six member states attended the final meeting in Montreal (Australia, Canada, New Zealand, Singapore, United Kingdom, and the United States). During the meeting, the ADOG approved the final construction phase of the PKD Facility in Montreal. Additionally, the ADOG completed the acceptance phase for the Design, Development, & Implementation of PKD Service and it officially signed off on testing and fully supported the next Phase (2) - Operation: establishing a contractual agreement between the Operator and ICAO for the PKD Service.

3.3 **Updates on the Memorandum of Understanding (MOU), PKD Board and Chair**

3.3.1 The Secretariat advised the ADOG that the Secretary General of ICAO had circulated the final version of the PKD MOU to the Council Members on 27 February 2007. The MOU comes into effect once five States have submitted 'Notices of Participation' as prescribed in the MOU. As of February 28 2007, Notices have been submitted by Australia, New Zealand, Singapore and the United Kingdom. Several other States are expected to submit Notices in the near future. On this basis, Australia, New Zealand, Singapore and the United Kingdom advised the Secretariat of their availability to serve on the PKD Board. Other nations will be eligible upon submitting Notices of Participation.

3.3.2 The members will be participating in the PKD Board have agreed unanimously to propose that Australia (Mr. Ross Greenwood) shall be selected as the initial Chair of the Board. The first meeting of the PKD Board will be held in Montreal on Monday 19 March 2007. Initial work items for the PKD Board will include:

- a) Membership promotion;
- b) Fee structure options – PKD Board function;
- c) Final phase schedule for negotiating with Operator Phase 2 – Operation contract, staffing, training, and implementation; and
- d) Approval of PKD Board Chairman – Ross Greenwood of Australia

3.3.3 A Ribbon-cutting Ceremony for ICAO PKD Office will be held on 20 March 2007. To date the plans call for the following scheduled items:

- a) ICAO PKD facility to be completed by 03/12/07;
- b) Training of staff personnel to start 03/12/2007 by Netrust; and
- c) Establishment of the PKD Service to be in production once the contract for Phase 2 – Operation has been signed.

3.4 **Construction of the PKD Office**

The area in which the Office is to be located was to be cleared on early February and construction is to be completed by 14 March 2007. On 7 March 2007, the Secretariat provided a construction progress report confirming that the work is on schedule.

3.5 **Staffing and Training**

The Secretariat is to immediately commence recruitment process for PKD staff. Netrust is to commence and complete training of PKD staff available by the Secretariat in the week commencing 12 March 2007.

3.6 **Netrust Contractual Agreement**

The Secretariat and Netrust are to commence negotiations for the Phase 2 (operation) contract after 19 March 2007.

3.7 **ICAO PKD Operation Plans**

Netrust and the Secretariat are to ensure that all systems, both hardware and software, are installed before 12 March 2007, when PKD staff training is to commence. Netrust and the Secretariat are to finalize and establish CSCA Register before 12 March 2007. Secretariat will ensure that operational capacity is in place to verify and authenticate Australian, New Zealand, Singapore and United Kingdom DSCs on 19 March 2007. Australia, New Zealand, Singapore will need to arrange physical hand over of their CSCAs on 19 March 2007 and out of band communication of their credentials and thumbprints by facsimile or email prior to 19 March 2007.

3.8 **Budget and Annual Fees**

In accordance with the PKD MoU, ICAO will provide financial statements and accounting reports to the PKD Board Members. The PKD Board will in turn set rules and procedures for establishing fees and, in conjunction with the ICAO and Operator, approve the operational budget. The initial annual fees will be established by the PKD Board after gathering all the required information, including the contract signed by ICAO and Netrust. The fees will be based on full details of all income, actual expenditures for Phase 1 and proposed expenditures including annual expenditures by ICAO and charges paid to Netrust.

4. **ACTION BY THE TAG/MRTD**

4.1 The TAG/MRTD is invited to:

- a) support the continued deployment and promotion of the ICAO PKD Service and associated PKD Board function.