ICAO INTEROPERABILITY AND CONFORMITY TESTS
EU SAC/PACE 2014

Technical information
for document providers

This document provides detailed technical information for all participants of the ICAO Interoperability 2014 tests who are registered as a *document provider*.

The term *document provider* refers to pre-registered participants who will be providing samples with an implementation of an eMRTD supporting the SAC protocol. The sample could be an inlay, a smart card or passport booklet. Optical personalization is optional. Samples provided are allowed to implement any SAC variant that is defined in the ICAO specification. The samples provided may support EAC, but this will not be the focus of this interoperability event.

Registration process

On Monday, 23 June 2014 from 1300 to 1700 hours, all pre-registered document providers must register their samples sets on site at the ICAO Interoperability 2014 event. The venue address is: Real Casa de la Moneda, Calle Doctor Esquerdo, 36 - 28009, Madrid, Spain, http://www.fnmt.es/home.

Each set must contain five (5) samples. The document data of these samples may differ (e.g. document number), but the sample configuration must be the same. A registered document provider is allowed to register a minimum of one (1) set of 5 samples and a maximum of two (2) sets of 5 samples.

During the registration process, the document provider must supply the following information:

- Contact information (incl. mobile phone) for the responsible contact person during and after the event;
- Minimum 1 set of 5 samples and up to 2 sets of 5 samples each;
- All samples of a set must have same configuration and be of the same type. Although content (personal data, document number, etc.,) may differ among samples; and
- For each sample, the following data must be provided on USB memory sticks or one or more CD's;
  - MRZ content;
  - CSCA certificate used to verify data stored on sample in binary format (DER);
  - PACE algorithms supported by the document;
  - Optionally: CAN number if CAN is supported; and
  - If document supports EAC:
    - the CVCA certificate with
    - a valid DV certificate and
    - valid IS certificate together with the IS private key
    - optionally: the CVCA root certificate and the corresponding root key

The document provider will receive a Document Set Receipt with a unique ID number. This ID number is used during the tests to identify the document provider. The receipt will be required to retrieve the documents from the organizer on the afternoon of Thursday, 26 June from 1530 to 1730hrs and from 0900 to 1100hrs on Friday, 27 June.

Testing procedure

All samples will be tested using a typical verification scenario using the Device under test (DUT). This is done to verify the general operability of the samples and the corresponding information (MRZ, certificates, etc.). At this point, the organizers will extract a variety of statistical data (algorithms used). These statistics will be presented in an anonymous format on Friday, 27 June at the MRTD ICAO Regional Seminar, Session 4.

The formal Interoperability tests will be performed by conformity testing laboratories and verification system providers from 24 to 26 June up to 1200 hours.

- For **conformity testing**, the ICAO test plan "Technical Report - RF and Protocol Testing Part 3, V2.01" will be used. The document can be downloaded at:
  http://www.icao.int/Security/mrtd/Pages/Technical-Reports.aspx.
  During the event a relevant subset of the tests will be performed. The following test units are conducted: ISO_7816_O, ISO_7816_P, ISO_7816_Q, LDS_E and LDS_I.
- For **cross over testing**, at least one document of each set will be read by every verification system provider. The verification system provider will analyze whether the system is able to read and verify the document as intended, plus identify any other relevant information.

The test results for each document will be handed out to the corresponding document provider following the Seminar. When announcing the results summary on 27 June, only anonymous and consolidated results of these tests will be presented, so that it will not be possible to determine the individual results of a specific sample.

Sample return procedure

The pickup of samples will take place on Thursday, 26 June from 1530 to 1730 and Firday 27 June from 0900 to 1100 hours (at the Interoperability Registration Room). Document samples will be returned, by showing the Document Set Receipt with unique ID number, received at registration.

At the end of the test session the document provider will receive a copy of the test results of their document set(s).