

**FOR INFORMATION**

NINETEENTH ITEM ON THE AGENDA

Report of the Director-General**Sixth Supplementary Report: Follow-up
to the Seafarers' Identity Documents
Convention (Revised), 2003 (No. 185)**

1. The Governing Body will recall ¹ that during 2004 seven biometric products were tested on board a cruise ship in a realistic seafaring environment. At that time, two of those products were identified as meeting the requirements of the Seafarers' Identity Documents Convention (Revised), 2003 (No. 185) and the ILO SID-0002 standard. The ILO's stated performance objectives were 1 per cent false rejection rate (FRR) (or less) at a 1 per cent false acceptance rate (FAR). After the 2004 test, enhanced software was developed to resolve interoperability issues that had arisen. As a result, one of the remaining five products was found to meet the performance objectives in a second phase of testing that was carried out in 2005 on the basis of the data collected in the 2004 test. ² In addition, an amended version of the SID-0002 standard was developed, and approved by the Governing Body in November 2005; it provided additional emphasis on key areas and corrected some minor errors in the original document. ³
2. During 2006, an additional six new biometric products were tested, together with the three products that had been found in 2004 and 2005 to meet the requirements of the Convention and the standard. A replacement of one of those three products was also tested. It had been developed to fix an error that had been pointed out earlier by the vendor of the product. The initial phase of testing for conformance and basic interoperability revealed that all ten products were conformant to the requirements of ILO SID-0002 and could achieve interoperability with one another on a limited set of fingers. This phase was completed by February 2006. Full data collection from 184 test subjects aged from 18 to 69 took place in February and March 2006. Each test subject visited the test laboratory twice during that period and was enrolled on every product and verified multiple times on every product during each visit. A total of 67,802 fingerprint images were collected under controlled and supervised conditions. Data processing and analysis took place in April and May 2006. A total of 161,359,702 individual matches were computed, resulting in a total of 27,066,803 two-finger transactions being simulated. In accordance with an agreement with the

¹ GB.292/16/2.

² GB.292/16/2(Add.).

³ GB.294/16/3.

International Organization for Standardization (ISO), the results of the testing and the draft conclusions of the ILO expert were submitted for an independent review by experts in ISO's SC37 group dealing with biometric standards. The ILO expert then produced his final report, which took the SC 37 experts' opinions into account.

3. In this final report, it was found that all of the six new products tested achieved the ILO's performance objectives referred to in paragraph 1 above when used in conjunction with the three products previously found to meet those objectives and with each other. The mean false rejection rate at a false acceptance rate of 1 per cent was 0.92 per cent. It was also agreed with the vendor concerned that one of the three original products should be removed from the ILO's list in favour of the replacement product (referred to in paragraph 2 above), which was also found to meet the ILO requirements.⁴
4. Accordingly, the following nine products (in alphabetical order of the vendors) can now be identified as meeting the requirements of Convention No. 185 and the ILO SID-0002 standard:

Vendor	Biometric service provider (BSP) description	Biometric sensor type
Bioscrypt	Bioscrypt SDK for Seafarers' Identity Documents, v1.0	UPEK TouchChip TC-S1
Cogent	BioSDK V3.10 COGENT BSP	Cogent Fingerprint Scanner CSD301
Dermalog	Dermalog BioPackage 1.3	Dermalog ZF1
Hyundai	Trugate-HIT-SHB BSP -> HIT UBF3.0 BSP	Smiths Heimann ACCO 1394
Identix	BioEngine Version 6	DFR-2100
NEC	SPID SID Edition Version 1.0	CROSSMATCH L SCAN 100R
Sagem	BioAPI v1.1 Sagem BSP	MSO 100
Sonda	Sonda SID SDK v.1.0	CrossMatch Verifier 300 LC 2.0
Steria	Steria BioMatch 1.4	Smiths Heimann ACCO 1394

Geneva, 26 October 2006.

Submitted for information.

⁴ The vendor has given assurances that no copies of the previously approved product will remain in use for purposes of the seafarers' identity document.