



Non-binding Ad-Hoc Query on Biometric data devices

Requested by LT EMN NCP on 2nd August 2013

Reply requested by 2nd September 2013

Compilation produced on 17th October 2013

Responses from Austria, Czech Republic, Finland, Greece, Italy, Latvia, Luxembourg, Malta, Poland, Slovak Republic, Slovenia, United Kingdom (12 in Total)

Disclaimer: The following responses have been provided primarily for the purpose of information exchange among EMN NCPs in the framework of the EMN. The contributing EMN NCPs have provided, to the best of their knowledge, information that is up-to-date, objective and reliable. Note, however, that the information provided does not necessarily represent the official policy of an EMN NCPs' Member State.

1. Background Information

In 2009 Police Department purchased and installed new equipment to collect biometric data: 171 standing (stationary) units (model "Speed Capture Station SCS 1200/1300/1400") and 18 mobile units (model "Speed Capture Mobile SCM 1200").

The period of warranty for this equipment is expiring. The above mentioned models are no longer producible, therefore the Policy Department is planning to purchase new equipment.

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We would like to ask you the following:

1. Could you please provide information about the equipment to collect biometric data in issuing passports and identity cards used in your Member State (both stationary and mobile)?
2. If possible and if not confidential, could you indicate the producer/company and the approximate price of the stationary and mobile devices used to collect biometric data in order to issue passports and identity cards.

We would very much appreciate your responses **by 2nd September 2013**.

2. Responses¹

		Wider Dissemination? ²	<ol style="list-style-type: none"> 1. Could you please provide information about the equipment to collect biometric data in issuing passports and identity cards used in your Member State (both stationary and mobile)? 2. If possible and if not confidential, could you indicate the producer/company and the approximate price of the stationary and mobile devices used to collect biometric data in order to issue passports and identity cards.
	Austria	No	This EMN NCP has provided a response to the requesting EMN NCP. However, they have requested that it is not disseminated further.
	Belgium	Yes	
	Bulgaria	Yes	

¹ If possible at time of making the request, the Requesting EMN NCP should add their response(s) to the query. Otherwise, this should be done at the time of making the compilation.

² A default "Yes" is given for your response to be circulated further (e.g. to other EMN NCPs and their national network members). A "No" should be added here if you do not wish your response to be disseminated beyond other EMN NCPs. In case of "No" and wider dissemination beyond other EMN NCPs, then for the Compilation for Wider Dissemination the response should be removed and the following statement should be added in the relevant response box: "This EMN NCP has provided a response to the requesting EMN NCP. However, they have requested that it is not disseminated further."

EMN Ad-Hoc Query: Biometric data devices

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	Cyprus	Yes	
	Czech Republic	No	This EMN NCP has provided a response to the requesting EMN NCP. However, they have requested that it is not disseminated further.
	Denmark	Yes	
	Estonia	Yes	
	Finland	Yes	1) For fingerprint capture, the Finnish authorities that issue passports and/or ID cards (the police and the embassies) use single- and 10-finger readers with a tailored integrated software that processes also signatures and facial images. The majority of facial images are taken by private sector photographers, and the applicant either brings the photo with her or the photographer uploads it to a dedicated photo server of the police. The police office at the Helsinki-Vantaa airport as well as some embassies are also equipped with cameras for on-site capture. 2) N/A
	France	Yes	
	Germany	Yes	
	Greece	Yes	1) In order to capture images of two fingerprints (one of each hand) and incorporate them in passports, tdv's and residence permits of aliens of greek descence are used two optical fingerprint live scanners at each stationary unit. 2) Device Model: Dermalog ZF1 live scanner (one finger scanner)
	Hungary	Yes	
	Ireland	Yes	
	Italy	Yes	Italy currently uses only stationary workstations, the picture can be scanned or taken live, the fingerprint is scanned with an optical scanner. Fingerprint scanner (greenbit) approx 250€
	Latvia	Yes	1. We use Canon digital cameras with custom build camera towers and two flashes (for shadow reduction) and Cross Match Technologies' Verifier 300 LC 2.0 fingerprint scanners for both – stationary and mobile setups. Currently we plan to procure new integrated equipment for biometric data capturing. Digital camera we use is not available in the market anymore, but similar fingerprint readers are available in the market for 200 – 400 EUR. For new integrated devices (includes camera with lighting, 2 fingerprint scanners, signature pad, interactive display, height adjustment and illuminated back wall) we expect prices around 5000 EUR per unit.
	Lithuania	Yes	

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	Luxembourg	Yes	<ol style="list-style-type: none"> 1. We cannot provide this information for the collection of biometric data in passports and identity cards. 2. N/A
	Malta	Yes	For the capture of biometrics for passports (photograph, fingerprint biometrics, physical signatures) and identity cards (photograph, physical signatures), we use a digital camera encased with integrated lighting, automated quality assessment software for facial image capture, cogent 4-print slap scanner with automated quality assessment software for fingerprint capture, and a Signature capture device. For fixed workstations, a robust personal computer is used, whereas laptops are used for mobile capture workstations. The price for such equipment is confidential.
	Netherlands	Yes	
	Poland	Yes	<ol style="list-style-type: none"> 1. Biometric data are collected only while issuing passports. The equipment used is only stationary. 2. <p>Full-page biometric scanner OCD-RFID:</p> <ul style="list-style-type: none"> - Producer: 3M; model: RTE 8000 HS (approximate price: 1 460 euro/piece, - Producer: DESKO GmbH; model: FP 500 (approximate price: 1 220 euro/piece); <p>Biometric slot scanner:</p> <ul style="list-style-type: none"> - Produced: DESKO GmbH; model: OS4200 (approximate price: 860 euro/piece). <p>Scanners used for taking fingerprint copies:</p> <p>Producer: DERMALOG Identification Systems GmbH; model: ZF1 (approximate price: 235 euro/piece).</p>
	Portugal	Yes	
	Romania	Yes	
	Slovak Republic	Yes	<ol style="list-style-type: none"> 1. and 2. <p>Currently the Slovak Republic has 4 types of workstations which have devices for the biometrical data collection.</p> <p>I. Integrated (stationary) workstations of the Department for Documents and Recording (IDs issuance):</p>

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			<ul style="list-style-type: none"> - photo booth with static lighting; - camera based on Canon PS IS S2 or Canon PS IS S5; - fingerprint reader L-1 Identity Solutions (Safran Morpho) DFR-2100 Single Finger Reader; - signature tablet Topaz TS-751 USB. <p>The equipment was provided by the company Siemens IT Solutions and Services, Ltd. (currently Atos IT Solutions and Services, Ltd.). Unfortunately we can not provide the information on prices.</p> <p>II. Integrated (stationary) workstations of the Bureau of Border and Aliens Police (passports, residence permits, etc.):</p> <ul style="list-style-type: none"> - photo booth with static lighting; - camera based on Canon PS IS S2 or Canon PS IS S5; - fingerprint reader L-1 Identity Solutions (Safran Morpho) TouchPrint™ Enhanced Definition 4100 Slap and Roll Live Scan; - signature tablet Topaz TS-751 USB. <p>The equipment was provided by the company Siemens IT Solutions and Services, Ltd. (currently Atos IT Solutions and Services, Ltd.). Unfortunately we can not provide the information on prices.</p>
	Slovenia	Yes	For collecting biometric data we use Fingerprint reader Dermalog ZF1, the price is 367€incl. VAT
	Spain	Yes	
	Sweden	Yes	
	United Kingdom	Yes	<p>1. By way of background, we do not issue identity cards to United Kingdom nationals; however we require non European nationals applying for leave to remain in the United Kingdom for more than six months to enrol their biometric information. Depending upon the age of the migrant they are required to provide a digital image and scanned fingerprints along with an electronic signature. The resultant biometric residence permit (BRP) is evidence of their leave to remain in the United Kingdom.</p> <p>Currently BRPs are only issued to “In Country” migrants, ie, those who have already entered the UK and are seeking to extend their stay or change the category in which they are permitted to stay.</p> <p>The two primary routes that migrants can use to enrol their biometric data are through the Post Office or the Home Office Public Enquiry Offices (PEOs).</p> <p>The Post Office enrolment service is provided under an outsourced contract with the Home Office (the Front</p>

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		<p>Office Service (FOS) Contract) and is available through 105 Post Offices across the UK using static Biometric Enrolment Stations. It is used by migrants who have made their leave applications through the standard "postal route". Applicants are currently required to pay £19.20 to enrol their biometric information at the Post Office unless they fall under an immigration category which exempts them from this fee.</p> <p>The Post Office also provide a mobile enrolment service under the same contract for migrants unable to attend at a Post Office due to ill health.</p> <p>The static capability uses a fixed booth with a motorised camera to capture the facial image; finger prints are captured on a platen and a customer is able to sign the electronically, with all data encrypted for data transfer. The mobile enrolment follows a similar process but with technical equipment that can be carried between locations. The mobile equipment uses flash to capture images, whereas the fixed stations have inbuilt lights that meet the ambient light requirements.</p> <p>The other main route for biometric enrolment is through the Home Office Public Enquiry Offices (PEOs), of which there are 7 located across the country. This route is only available to those migrants wishing to pay for a Premium "same day" service. A mobile biometric enrolment service, for applicants wishing to pay for a "Super premium" service is also provided by the Home Office.</p> <p>It is estimated that approximately 75% of migrants use the Post Office to enrol while the remaining 25% use the PEOs.</p> <p>Biometric information is also captured for Non European nationals overseas who are applying to come to the United Kingdom. This information is only used for producing the visa vignette which is placed in the applicant's passport. However from 2014 (precise date to be confirmed) we expect to start issuing biometric residence permits to applicants overseas, in the same categories as the in country process.</p> <p>UK nationals applying for a passport are only required to provide a passport photograph when submitting their application. Further details regarding the passport application process can be found on our website https://www.gov.uk/browse/abroad/passports</p>
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			<p>2. The table below provides some high level technical information of the enrolment equipment being used for these enrolment routes (and other methods which have been employed) and covers the main elements of the equipment (laptop, secure mobile comms, fingerprint reader, camera, rugged case, etc.) and also the standards we need it to comply with (ICAO face image standard, fingerprint biometric standards, etc.). In addition, work is on-going to extend biometric enrolment to overseas migrants from 2014 based on the system of biometric capture currently used at the Visa Application Centres overseas. This is included in the spreadsheet at "Solution 4".</p> <p>The EU working group on mobile devices, e-MOBIDIG, also has potentially useful material on their website www.e-mobidig.eu (strategy, requirements, country examples, standards, etc.), particularly the tabs on publications and also meetings.</p> <p>We are unable to share the prices and technical information for the Post Office Ltd biometric enrolment equipment as this information is commercial in confidence and covered by Intellectual Property Right (IPR) restrictions. However the Post Office has provided the following contact details:</p> <p>Christian Muir Account Director 0771 772 6521 Christian.muir@postoffice.co.uk</p>
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			Workstation / Operating System	Fingerprint Scanner	Camera	Signature Scanner	Document Scanner	Facial Image Quality	Fingerprint Quality	Biometric provider	Mobile solution ?	Desktop / Fixed location Solution
			Solution 1 (e.g. used to capture biometrics from Olympics Games Family members)	Fujitsu Lifebook S751 Laptop Intel® Core™i5 Processor 2GB DDR3 Ram 320GB Hard drive	CrossMatch Patrol Optical Block	Microsoft HD Lifecam Video Camera	Flatbed Scanner 3M AT9000 Document Scanner	ICAO 9303 compliance checked with Cognitec algorithm	NFIQ	Aware	Yes	No
			Solution 2 (e.g. used to capture biometrics in Home Office Public Enquiry Offices)	Windows XP	CrossMatch Guardian	Canon Powershot SX110 IS (mobile)	Flatbed Scanner n/a	ICAO 9303 compliance checked with Cognitec algorithm	NFIQ	Cogent	Yes	Yes
			Solution 3 (e.g. used by outsourcing partner Front Office Services)	Windows XP (SP3) and Windows 7	FBI Certified Slap scanner	Canon	Electronic Signature Pad 3M AT9000 Document Scanner	ICAO 9303 compliance checked with Cognitec algorithm	NFIQ	Cogent	Yes	Yes
			Solution 4 (e.g. used in international locations to capture overseas applicant's biometrics)	HP DC7700 CMT Intel P4 3.4 GHz 1.00GB RAM 160GB Hard Drive Windows XP	CrossMatch Guardian with Cross Match Technologies L SCAN Essentials SDK 6.1.0.3	Canon A640	None Rochford Thompson RTE6701	ICAO 9303 compliance checked with Cognitec algorithm; non-uniform background and lighting	NFIQ	Cogent	Yes	No

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			Solution 5 (e.g. used to enrol biometrics by Home Office Local Immigration Teams)	Windows XP	Crossmatch Patrol (to capture slaps and rolled prints)	Microsoft Livecam (1080P)	None	3M AT9000 or 3M RTE8000	ICAO 9303 compliance checked with Cognitec algorithm; non-uniform background and lighting	NFIQ (as above) and Aware's proprietari y quality algorithm	Aware	Y	Y
	Croatia	Yes											
	Norway	Yes											
