



## **EMN Ad-Hoc Query on Ad-hoc query on equipment to collect biometric data**

Requested by Adolfo SOMMARRIBAS on 17th September 2018

### **Miscellaneous**

Responses from Austria, Belgium, Croatia, Cyprus, Czech Republic, Estonia, Finland, France, Germany, Greece, Hungary, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Slovak Republic, Spain, Sweden, Norway (20 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.*



### **Background information:**




Sweden is about to procure new equipment for biometric capture in visa and residence permit applications, as well as for enrolment of rolled fingerprints in asylum applications. Therefore we would very much appreciate if you can provide us with information about the equipment that you currently use for collecting biometric data:



### **Questions**



1. Do you currently use an integrated solution, i.e. do you use an enrollment station with integrated hardware components (camera, fingerprint reader, lightning, etc.) or do you use “stand-alone” components?
2. If you currently use an integrated solution, what manufacturer/vendor do you use?
3. Regardless if you use an integrated solution or not, what products and what manufacturers do you use for the components used for biometric capture (camera, fingerprint reader, software)?
4. Do you also use your equipment for biometric capture from asylum seekers (i.e. rolled fingerprints) or do you have knowledge about if the reader is capable of rolled fingerprints capture?




### **Responses**


	<b>Country</b>	<b>Wider Dissemination</b>	<b>Response</b>
	Austria	No	
	Belgium	Yes	<ol style="list-style-type: none"><li>1. For the live registration of the facial image we have two enrolment solutions: - a ‘light’ solution with webcam (see picture in attachment) - a ‘heavy’ solution with integrated Canon EOS photo camera (see picture in attachment)</li><li>2. A Belgian company, Zetes. The equipment was purchased through a global tender in 2009. This material will be renewed through new tenders (one for the live picture and one for the fingerprint scanners) that should be launched soon.</li></ol>



			<p><b>3.</b> In the heavy solution (and some custom installations): Canon EOS 1100D, 1200D and 1300D with Zetes SDK. For the registration of the flat fingerprints we use the CrossMatch Guardian readers with the LScanMaster SDK and the VIS BMS software kits.</p> <p><b>4.</b> No</p>
	Croatia	Yes	<p><b>1.</b> 1. For the purpose of comparison between the EU countries, Croatia uses a biometric database "Eurodac" containing fingerprints of applicants for asylum and third-country nationals who are found in illegal residence in the Republic of Croatia.</p> <p><b>2.</b> 2. A Croatian company, "King ICT d.o.o.", is a manufacturer and supplier of stationary and mobile workstations.</p> <p><b>3.</b> 3. Components: computer, scanner, peripherals and power supplies. Details are stated confidential by the manufacturer.</p> <p><b>4.</b> 4. Yes. The "Live Scanner" fingerprint reader is capable of capturing valid fingerprints.</p>
	Cyprus	Yes	<p><b>1.</b> CY is using stand alone components. Each station comprises with a PC (desktop or laptop), scanner, fingerprint scanner, signature pad and camera</p> <p><b>2.</b> N/A</p> <p><b>3.</b> Biometrics are captured with an enrolment software provided from the supplier (Bundesdruckerei GmbH) as part of turnkey solution. CY is using Canon cameras and Dermalog fingerprint readers.</p> <p><b>4.</b> No, we are not using enrolment for asylum seekers. No, the reader cannot be used for rolled fingerprinting.</p>
	Czech Republic	Yes	<p><b>1.</b> The Czech Republic uses "stand-alone" components connected to the PC and special App.</p>

			<p>2. Detailed information is not publically available due to the contract with service provider.</p> <p>3. See above.</p> <p>4. See above.</p>
	Estonia	Yes	<p>1. Both.</p> <p>2. Speed Identity.</p> <p>3. Dermalog LF-10, Integrated Biometrics Kojak and Five-0. There are no standard solutions in use for face capture. In-house developed enrollment software.</p> <p>4. Dermalog LF-10, Integrated Biometrics Kojak and Five-0.</p>
	Finland	Yes	<p>1. The components are "stand-alone". The information is then integrated into the UMA case handling system via a specifically developed software.</p> <p>2. N/a</p> <p>3. Biometric software: 1. Mammutti (mainly used) - Software manufacturer Digia Oy 2. Ticai (only few installations) - Software manufacturer Guiart Oy 3. UMA Biometric client ("transfer agent" between UMA and Mammutti/Ticai) - Software manufacturer Accenture Biometric Hardware: Fingerprint readers - Safran Morpho TOP100 (multi finger) - Safran Morpho MSO 300 (single finger) Signature Tablet - Wacom LCD Signature Tablet STU-530 Digital cameras: - Canon EOS 700D - Canon G-10 Scanners: - Canon 9000F Mark II</p> <p>4. The equipment is also used for asylum seekers. Fingerprint readers - Safran Morpho TOP100 (multi finger) - Safran Morpho MSO 300 (single finger) At least tje Safran Morpho TOP 100 is capable of rolled fingerprints.</p>




	France	Yes	<p><b>1.</b> For residence permits and asylum applications, these are autonomous and nominal components (scanner, fingerprints sensors et readers, secure insert for chip-cards, dongles, webcam, hub). For visa applications, France uses integrated components.</p> <p><b>2.</b> For residence permits and asylum applications, no manufacturer / vendor. For visa applications, France uses as suppliers: Imprimerie nationale (State printer) and Idemia.</p> <p><b>3.</b> For residence permits and asylum applications: Software : Imprimerie nationale Scanner : Panasonic KV-S1026C fingerprints sensors et readers : Morphotop 100 or Suprema RealScan G-10 Secure insert for chip-cards : Lecteur Elyctis IdBox 141 Dongles : Licenses SBNA Webcam : ids ui-1460LE-C-HQ-ST Hub : Lindy USB 7 ports For visa applications, Imprimerie nationale and Idemia.</p> <p><b>4.</b> For residence permits and asylum applications: This equipment is only used for the asylum seekers in French overseas departments. Another equipment and software are used for rolled fingerprints on the French Schengen area. For visa applications: we only use the equipment provided by Imprimerie Nationale</p>
	Germany	Yes	<p><b>1.</b> We do use standalone components. In 2016 we developed a System called "PIK" (Personalisation Infrastructure Component). These stations are used by the employees of BAMF in the branch offices and arrival centers or by staff of the Länder at reception facilities, immigration authorities and arrival centers. The opportunity is taken here to centrally store personal data, and biometric data which means photo as well as fingerprints (children aged under 14 are ruled out here). All public agencies which need them for their respective tasks later have access to these data.</p> <p><b>2.</b> n/a</p> <p><b>3.</b> The PIK can be used as a software component with several certificated hardware components. The Certification has to be given from the Federal Office for Information Security (BSI). Basically a PIK is equipped with a digital Camera (Canon EOS 600 D) that is directly connected to the Computer. A finger printer from Dermalog Modell: DF 10. In addition the PIK is equipped with a Document reader and a printer for documents. In addition to the PIK we are using another System at BAMF, the electronic asylum procedures file called MARiS therefore we are using other hardware components.</p>


			<p>Fingerprinter: Guardian Crossmach</p> <p>4. Yes the hardware is used to record biometric capture.</p>
	Greece	Yes	<p>1. Greece currently uses “stand-alone” components for residence permit applications. Each station comprises a PC, scanner and fingerprint scanner.</p> <p>2. Greece doesnot use an integrated solution.</p> <p>3. For residence permit applications, biometrics are captured with the following components. • Scanner: Hewlett Packard 5590 (used for photo, signature and passport) • Fingerprint Scanner: Secugen Hamster IV HFDU04 • Software: Webservice application The Asylum Service uses - Cameras: Logitech C525 / C920 - Fingerprint readers: Suprema RealScan-G10, GreeBit DactyScan 84c The software was developed from the IT Department of the Hellenic Police (using Java)</p> <p>4. Asylum Service: Both readers are capable of rolled fingerprints capture and we use this feature for biometric capture from asylum seekers</p>
	Hungary	Yes	<p>1. The Hungarian Immigration and Asylum Office (IAO) uses a non-integrated solution.</p> <p>2. N/A</p> <p>3. For making photos we use a self-developed system with a commercially available camera. Our fingerprint readers are from Suprema, with a client software developed by Recower Ltd.</p> <p>4. Yes, our answers above apply to this area and also to the field of aliens’ policy. In the field of visa issuance we use IAO ARH510 fingerprint readers, and self-developed software integrated with the visa system.</p>
	Latvia	Yes	<p>1. For residence permit applications- Currently we use integrated enrollment solution. For visa applications- We use stand-alone hardware components. For asylum applications- We use stand -</p>

			<p>alone equipment. Camera with integrated lighting, fingerprint reader as ‘plugin’ device.</p> <p><b>2.</b> For residence permit applications- We use devices from Vision Box (based in Portugal). For visa applications- N/A For asylum applications- No integrated solution, it is possible to connect almost any device, of course additional tuning is necessary.</p> <p><b>3.</b> For residence permit applications- We have 3 different types of devices but all of them use the same components in order to ensure stable enrollment results. Components are as listed below: * for face image capture we have IDS uEye XC 13MPix camera; * for fingerprint capture we have Dermalog ZF1 (GEN2 and GEN3 - based on enrollment units setup date); * for signature we use Wacom signature pad (STU-300B for existing stations and STU-430 for devices intended to upgrade or setup later on - due to the fact that STU-300B is no longer commercially available). * Vision-Box software is used for component management and Cognitec software is used for face image QA. For visa applications- Camera - Canon EOS 1200D and Canon EOS 1300D Fingerprint reader - Kojak FAP60 and Papillon DS30N Software - Secunet Biomiddle. For asylum applications-Camera – Canon EOS (any camera) starting from EOS 450D. Fingerprint reader – IB Kojak 10 print scanner (flats and rolls) with LES technology.</p> <p><b>4.</b> For residence permit applications- Dermalog ZF1 is not capable to enroll rolled fingerprint. For visa applications- The scanner Kojak FAP60 is able to capture up to four flat fingerprints simultaneously, as well as single rolled fingerprints. For asylum applications- Kojak 10-print roll scanner scans four flat prints and single finger rolls.</p>
	Lithuania	Yes	<p><b>1.</b> We have collected answers from the Migration Units under the Police Department (MU) and State Border Guard Service (SBGS). It will be noted in the answer (MU and SBGS). -MU: Currently the Migration Units use integrated solutions, which include cameras, fingerprint readers, signature capture devices, lighting, etc.</p> <p><b>2.</b> -MU: Biometric devices Speed Capture Station SCS 1200 and Speed Capture Mobile SCM 1200 are used with the Identity Documents Personalisation System (in Lithuanian, AD IS) -SBGS: Visa Information System (VIS) is integrated with the State Border Guard Service Information System (in</p>

			<p>Lithuanian, VSAT IS).</p> <p><b>3.</b> MU: Speed Capture Station SCS 1200 ir Speed Capture Mobile SCM 1200. SBGS: ARH AFS510 and EURODAC devices with LiveScan™ Cs500e and CS1000e/p scanners.</p> <p><b>4.</b> Live scanners (EURODAC devices with LiveScan™ Cs500e and CS1000e/p scanners) are used for fingerprints of asylum applicants have the function of taking rolled fingerprints.</p>
	Luxembourg	Yes	<p><b>1.</b> Luxembourg currently uses a fully integrated enrolment station. It is a complete solution for capturing biometric data including face photograph, fingerprints and signature in a secure, all-digital workflow.</p> <p><b>2.</b> Manufacturer: Speed Identity AB, vendor: InTech S.A.</p> <p><b>3.</b> Components and software Components The device used for live enrolment is a ‘Speed Capture G3’. The G3 has an integrated camera (industrial grade), an integrated fingerprint reader with support for dual 1-finger flat capture and an integrated signature capture pad with user-friendly, pen-like stylus. For Visa and others applications requiring 10 fingerprints, we use a Guardian Crossmatch fingerprint reader. Software: custom developed software (front-end) for interacting with the G3 device and for committing the captured data to a back-end database.</p> <p><b>4.</b> The Guardian device is capable of rolled fingerprint capture. It is used for Eurodac fingerprint matching for asylum claimants.</p>
	Malta	Yes	<p><b>1.</b> Yes, We use integration Solution with enrolment station with integrated components.</p> <p><b>2.</b> Supplier De La Rue</p> <p><b>3.</b> The components used by the integrated solution supplied as a kit by DLR</p> <p><b>4.</b> No information.</p>



	Netherlands	No	
	Slovak Republic	Yes	<ol style="list-style-type: none"> <li>1. Slovak Republic does not currently use integrated solutions but a working station with attached peripheral devices.</li> <li>2. N/A</li> <li>3. Camera: Canon PowerShot S5, Canon EOS 1200D, fingerprint reader: Identix TouchPrint enhanced definition 4100, Futronic FS64. Software: webservice application.</li> <li>4. No.</li> </ol>
	Spain	Yes	<ol style="list-style-type: none"> <li>1. We use an integrated solution including camera, fingerprint reader and RF as well as contact microchip reader.</li> <li>2. ICAR IDBOX 10FP.</li> <li>3. See above. Software is our own.</li> <li>4. It is also used for asylum seekers. Rolled fingerprints can also be captured.</li> </ol>
	Sweden	Yes	<ol style="list-style-type: none"> <li>1. Sweden currently uses a fully integrated enrolment station.</li> <li>2. A Swedish company, Speed Identity AB, is the manufacturer and vendor of the enrolment station</li> <li>3. Components and software <ol style="list-style-type: none"> <li>a. Camera: Sigma (AF 30/2,8) 20 Megapixels</li> <li>b. Fingerprint readers: Guardian Module from Cross Match (flat and rolled fingerprints) and V30X from Lumidigm Inc (flat prints only)</li> <li>c. Software: Besides the operating system (Windows 10) and drivers (for hardware components) a WebService application developed by Speed Identity AB. Integrated fingerprint quality control by use of MorphoKit from Safran.</li> </ol> </li> </ol>

			<p><b>4.</b> Yes, the Guardian Module fingerprint reader is capable of rolled fingerprint capture</p>
	Norway	Yes	<p><b>1.</b> Currently Norway uses "stand-alone" components. However, we use a NORVIS-machine where photo and fingerprint reader is integrated. This machine is manufactured by Motorola.</p> <p><b>2.</b> N/A</p> <p><b>3.</b> Camera: Canon. Fingerprint reader: Crossmatch Technologies. Signature pad: Wacom. Software: Steria Biometrics.</p> <p><b>4.</b> Our reader is capable of rolled fingerprints capture</p>