



## CASE STUDY

### **Sweden: Facelt® Technology Helps Swedish ePassports Become ICAO Compliant**

#### **The Challenge:**

Governments worldwide are working urgently to improve their travel documentation and immigration procedures. Their goal is to make travel documents fraud-proof, to prevent terrorists and criminals from penetrating countries' borders, and to ease border crossing for legitimate travelers. Security concerns are creating the urgency and directives issued by entities like the International Civil Aviation Organization (ICAO), the European Union, and the US Department of Homeland Security.

Although ICAO Document 9303, the definitive and continuously updated guide to travel document security, has issued very clear guidelines and key considerations on implementing biometrics such as global interoperability, uniformity, technical reliability, practicality, and durability, countries who are deploying the projects still face many challenges because of the magnitude of the project.

With the help of industry experts, Sweden became one of the very first countries to issue its citizens with electronic passports with biometrics on October 1, 2005.

#### **The Solution:**

Thanks to a team led by Sweden-based Snabbfoto AB and its business area Speed Identity, approximately 250 SpeedCapture™ passport enrolment kiosks, which integrate Facelt® face recognition technology, are now operational in 100 police stations all over Sweden.

The Swedish National Police Board selected the Snabbfoto team in October 2004 to deliver an enrolment platform that ensures compliance with international standards for machine-readable travel documents. The addition of L-1's facial recognition to the Speed Identity solution also helps ensure that Sweden's biometric passport complies with international interoperability standards (ISO 19794-4 and 5).



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At the time of application for a new Swedish passport, a photograph and a signature from the applicant are captured in a Speed Identity photo station, which is placed adjacent to the officer handling the passport application. Using advanced software tools from L-1, the photo station verifies that the quality of the captured photo is in line with international standards, and that the photograph is suitable for verification by facial recognition software. The software measures a wide variety of aspects including resolution, pose, contrast, and other parameters that would otherwise be difficult to discern manually. Live enrolment allows for paperless processing for the majority of the applicants resulting in a faster and more efficient passport application process. The integration of quality assurance also facilitates decision making for the officer capturing the data.

“The solution from Snabbfoto, which integrates L-1’s facial recognition technology, was the only solution that complies with all our requirements,” said Thomas Wahlberg, Project Manager for New Travel Documents at the Swedish National Police Board. “The solution from Snabbfoto supports our vision of the new application process in an efficient manner,”

Speed Identity Group Executive Vice President Magnus Svenningsson said, “We conducted an extensive competitive analysis of multiple facial recognition technologies prior to putting together our team. L-1 was a cut above the rest, clearly demonstrated by their ability to provide multiple biometric technologies, long-standing experience in implementing ID programs and the fact that they co-authored the required standards. Given their strong understanding of the requirements and Sweden’s program goals, L-1 was a logical choice.”

The SpeedCapture enrollment kiosks also feature DFR® 2100 readers to capture fingerprint data which will be added in the next phase of the project to comply with European Union mandates. The project will also include enrollment of passport and visa data according to EU Decision 2004/512/EG at approximately 100 Swedish legislations in the world.

### **About Facelt® Technology**

The eighth generation of Facelt technology improves on already exceptional matching ability by combining top-performing face recognition algorithms from L-1’s Secure Credentialing and Biometrics Solutions divisions. The result is a multi-pass security solution that significantly improves search and hit rates to become the top performer in the industry. Each layer adds to the overall results of identifying and verifying individuals – even between twins.



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### **About the DFR® 2100 Single Finger Reader**

DFR® 2100 single finger reader combines superior image capture with easy-to-use design, making it the perfect choice for all types of large-scale fingerprint programs, including enrollment, verification and identification. Available in two different models, customers select the reader that best meet their application needs. Building on the success of our DFR series, the DFR 2100 enables users to increase security, minimize identity fraud, and protect the assets of citizens and employees. The DFR 2100 single finger reader consistently provides better image quality for superior matching performance. In addition, this reader's design makes it easier to capture fingerprints resulting in faster processing and higher throughput.

### **About L-1 Identity Solutions**

L-1 Identity Solutions, Inc. (NYSE: ID), together with its portfolio of companies, offers a comprehensive set of products and solutions for protecting and securing personal identities and assets. Leveraging the industry's most advanced multi-modal biometric platform for finger, face and iris recognition, our solutions provide a circle of trust around all aspects of an identity and the credentials assigned to it -- including proofing, enrollment, issuance and usage. With the trust and confidence in individual identities provided by L-1 Identity Solutions, government entities, law enforcement and border management agencies, and commercial enterprises can better guard the public against global terrorism, crime and identity theft fostered by fraudulent identity. L-1 Identity Solutions is headquartered in Stamford, CT. For more information, visit [www.l1id.com](http://www.l1id.com)