

VERIDOS

IDENTITY SOLUTIONS

by Giesecke+Devrient
and Bundesdruckerei



A focus on the UAE: Secure and trusted identity solutions for our customers

A Veridos case study

Having proof of a legal identity is essential to every citizen, opening the doors of opportunity to almost every aspect of their daily lives – from access to education and public services such as healthcare to seamless travel across borders. Recognising this, the UAE has been a regional leader in the Middle East investing in high-end identity solutions to provide its citizens with access to essential services.

The UAE, for example, was a regional pioneer in implementing an electronic passport system and today the UAE ePassport is ranked number one in the high profile international Arton Passport Index.

Reflecting the commitment to increasing access for citizens, UAE ranks high in the Global Innovation and has even adopted its own measurement tools, such as the Abu Dhabi Innovation Index, to further drive change¹.

And as part of its ongoing commitment to global air safety, the UAE participates in the Public Key Directory (PKD) of the International Civil Aviation Organization (ICAO), housing the ICAO server securely in the government's own data center.

Tailored identity and passport solutions to meet UAE's evolving needs

The UAE has invested in activities such as education and technological development and is also creating state-of-the-art infrastructures, including digital networks, that will position it as a global leader in the post-hydrocarbon world. It ranked 21st out of 193 countries in the 2020 UN E-Government Development Index, which measures the readiness

and capacity of national institutions to use Information and Communications Technology (ICT) to deliver public services. The country aims to have 100% of its citizens with a high-speed internet connection and a secure digital infrastructure by 2025². Currently, the UAE has one of the fastest-growing digital economies in the world.

VERIDOS FZE

Since it was formed in 2015, Veridos has enjoyed a particularly strong presence in the country. A joint venture between two German companies, Giesecke+Devrient (G+D), an international leader in secure technologies, banknote printing, and cash lifecycle systems, and Bundesdruckerei, the German federal printing office, Veridos provides a broad range of physical and digital identity solutions. Its portfolio includes government documents, lifecycle management systems, verification software, access and border control solutions and eGovernment services. Our knowledge of the needs of this sophisticated and rapidly growing region is deep and well informed thanks to the earlier presence here of both of its parent companies.

The move is aligned with UAE's own clear ambition of offering investors and stakeholders a future-focused business platform as part of its Vision 2021, which aims to make the UAE one of the best places to live and work.

UAE'S ADVANCED AND SECURE NATIONAL DOCUMENT

With its central location within the Middle East and its strong digital awareness, the UAE has proved to be a valuable location from which Veridos and G+D can serve clients across the Middle East and Africa. In 2019, Veridos and G+D moved into a new regional headquarters and competence center for services and training in Dubai Silicon Oasis.



¹<https://u.ae/en/about-the-uae/the-uae-government/government-of-future/innovation-in-the-uae>
²<https://www.linkedin.com/pulse/digital-government-uae-future-governance-middle-east-beyond-sear/>

AN ePASSPORT TO UNLOCK WIDER OPPORTUNITIES FOR ALL CITIZENS

Creating opportunities for its citizens for international travel has been an important element in this broader ambition. As part of the process of digitalizing national systems, in 2009 UAE engaged with Bundesdruckerei to upgrade its passport issuing system. The scope included replacing its existing Federal Identification and Citizenship Authority Passport system with locally-personalized, ICAO-compliant electronic passports that would meet the highest international security standards.

In 2011, UAE became the first Arab country to implement this type of digital upgrade, issuing an ePassport that has a microchip containing encrypted biometric data to prevent forgery.

UAE has used the highly secure passport, to leverage its trusted status to provide access to an increasing number of countries. In 2015, the UAE became the first Arab nation to be granted visa free access to Europe's 26 Schengen countries. That lifted it in the following year to 27th place in the high profile international Arton Passport Index.

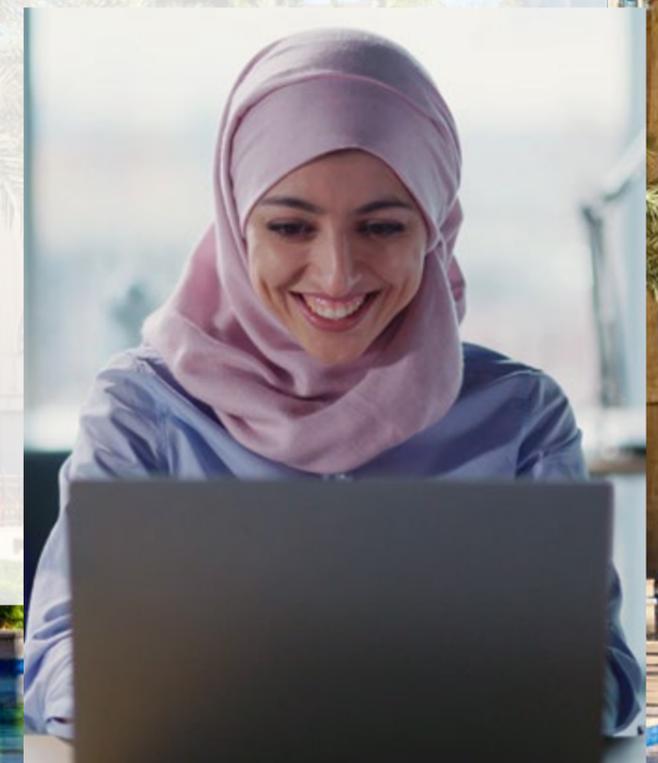
As a result of concerted efforts under the Ministry of Federal Authority for Identity and Citizenship (FAIC) and International Cooperation's UAE Passport Force initiative, the UAE passport has gone on to be ranked number one in this index. By the end of 2019, before the COVID-19 pandemic disrupted global travel, the UAE passport's "visa-free score" had risen to 178 countries, permitting passport holders to visit over 80% of the countries in the world, either entirely visa-free or with visa-on-arrival.

Veridos provided on-the-ground services for aspects of the UAE's passport enrolment,

production, issuance and renewal, as well as equipment for passport checks at entry points.

It provides full 24/7 support for the seven passport personalization sites within the UAE, including service and maintenance of enrolment technologies, passport readers and supervising the work of the issuance centers. We also provides technical support for the UAE's Public Key Infrastructures and National Public Key Directory.

Over a period of years, Veridos has therefore become a trusted provider of state-of-the-art identity solutions to support UAE's Ministry of Foreign Affairs and International Cooperation's UAE Passport Force initiative. It has worked in close partnership with the Ministry of Federal Authority for Identity and Citizenship (FAIC), helping to roll out a high quality ePassport that has won trust all over the world.



Compliment to the physical: Secure and convenient digital identities

The benefits of an eGovernment platform that is interoperable and expandable are enormous, for governments and for citizens alike. VeriGO® Solutions for eGovernment enable the remote provision of key public services that are consistently and reliably accessible thanks to a robust and secure digital identity. The VeriGO® suite has been designed to reduce administrative costs, securely verify identities remotely, and streamline processes. We also deliver optimized and flexible solutions that can be quickly implemented. Our holistic solutions can also be easily modified to meet the evolving needs of our customers.

Through the combination of physical and digital identities, citizens can access almost every imaginable type of government service – from establishing digital identities, voting in elections and paying taxes to applying for a driver's license

or passport and completing transactions via a secure multichannel communication protocol. The more extensive the range of services provided, the greater the savings to the state in both time and administration costs.

Veridos is a major participant in the exciting and rapidly evolving market for providing digital identities via smartphone. We offer online government service solutions based on state-of-the-art technologies and mobile applications for Android, iOS and Windows. We also support our clients in transferring traditional processes to the mobile/online world. This can range from advanced and convenient payment processing solutions for administrative fines to virtual identification applications on mobile phones that are complementary or alternative options to physical identification documents.

Veridos is at the forefront of security, innovation, and delivering solutions that meet the needs of customers in a connected world.

Meeting Jordan's passport needs

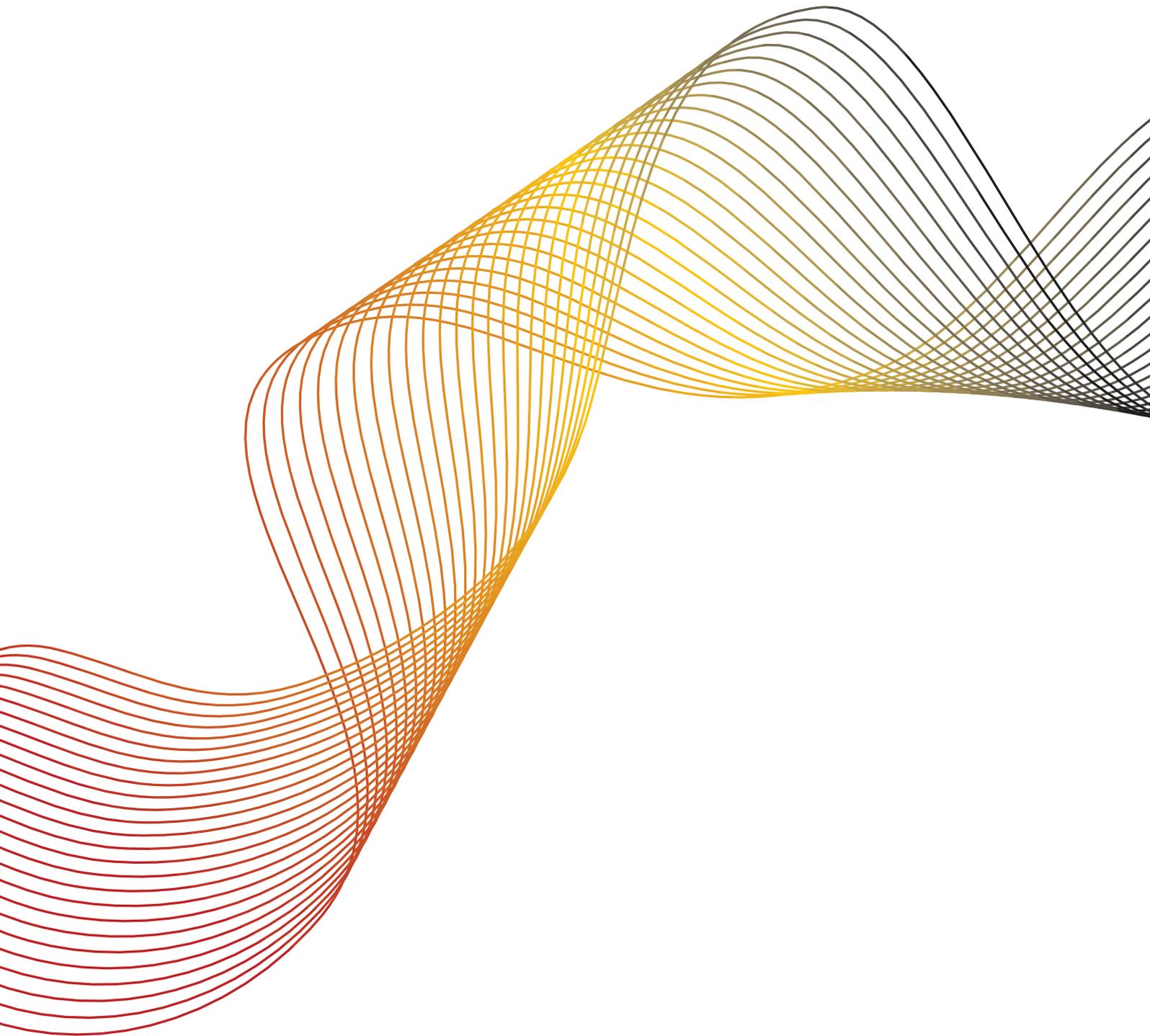
Today, Veridos' holistic portfolio is provided in the Middle East region through its local company in Dubai, Veridos FZE.

The value of the UAE as a base from which to serve customers throughout the Middle East region is demonstrated by its participation, for example, in 2016 with the Hashemite Kingdom of Jordan in a project to produce and deliver machine-readable, ICAO compliant passports for international travel. G+D had provided passports to Jordan since 2012 and all the components of the machine-readable passports have been provided by Veridos. This includes a Printed and Embossed Anti-Copy Key (PEAK®) – a combination of intaglio and offset printing – which means that when the Peak® area is viewed from different angles, the variable text "HKJ" becomes visible.



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