



MÜHLBAUER SECURITY®
GOVERNMENT SOLUTIONS



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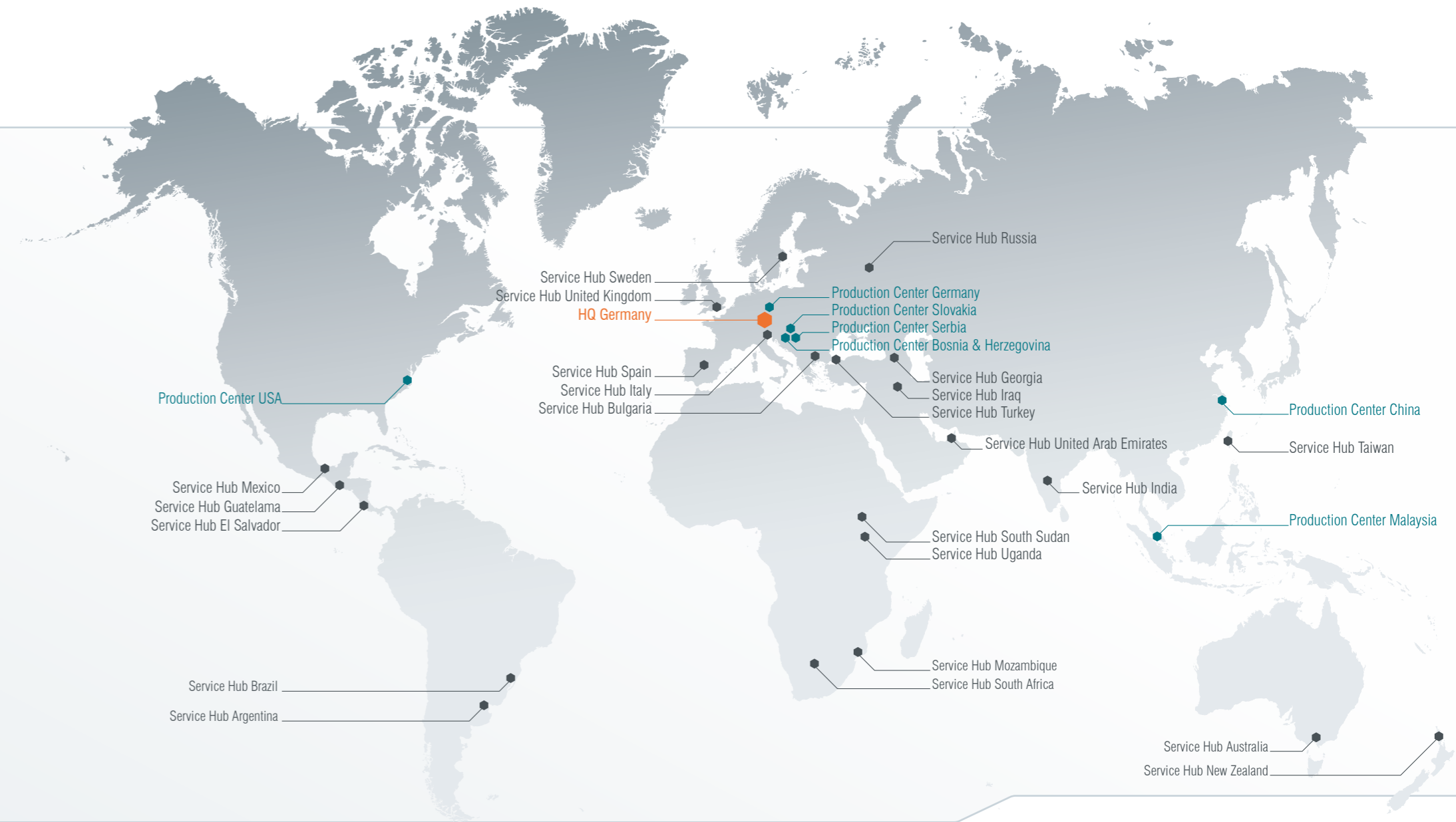
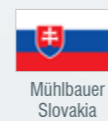
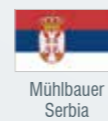
COMPANY

MÜHLBAUER GROUP AT A GLANCE

Founded in 1981 in the heart of Bavaria, the Mühlbauer Group has ever since grown to a leading global player in the fields of Parts & Systems, Semiconductor Related Products, Document Solutions & Equipment for Security Systems, and innovative Technologies for eMobility and Flexible Solar Solutions. With around 4,000 employees, technology centers in Germany, Malaysia, Slovakia, the U.S. and Serbia, and 35 sales and service locations worldwide, Mühlbauer created a strong competence network around the globe.

We continuously invest in the latest technologies and innovative processes to enhance our competences and to provide you with optimized solutions. Our in-house precision part production – MPS – Mühlbauer Parts & Systems – guarantees unlimited flexibility and highest customer satisfaction. Our business unit AUTOMATION does not only develop and assemble individually customized production systems, but also provides matching software solutions for the production process of Document and Solution Related Products. Vision inspection technologies as well as semiconductor and RFID applications complete our comprehensive portfolio.

Our business unit TECURITY® is established as a competent partner for the implementation of security systems for identifying and verifying both documents and individuals. Our clients benefit from more than three decades experiential value which we have gained during the realization of over 300 ID projects worldwide.



HISTORY

OUR COMPANY AND ALL ITS COMPETENCIES
HAVE THEIR ORIGINS IN PARTS MANUFACTURING.

Today, our **in-house parts production** facility is our guarantor for rapid, high-quality and high-precision machine parts – independent of external changes and fluctuations. Mühlbauer further developed its machinery for particularly precise and fast handling of sensitive materials.

In the 1980s, we were able to jump into the **semiconductor market** and actually developed the world's fastest die bonder – at that time with a 10-member team. Step by step, Mühlbauer took over the technologies and experience of this market-leading die sorting machine for several other fields. After immersing ourselves in the world of **Document Solution Related Products** such as ID cards, passports and driver licenses, we also started to supply companies and governments with the suiting **software and service solutions** for secure authentication and verification of the ID documents. Since then, our portfolio has constantly evolved and adapted to the latest technologies. In addition to the innovation of products like **flexible solar cells**, the Mühlbauer Group has particularly specialized in the **eMobility** area in recent years and meanwhile offers turnkey solutions for fuel and battery cell production. Ideas have no limit at Mühlbauer. The future is our present!

FOUNDATION



Founding of the company by Josef Mühlbauer with only one machine for the production of precision parts

PRECISION PARTS



Large-scale production of precision parts for aviation and automotive industries

SEMICONDUCTOR



Development of production equipment for the semiconductor backend industry

DSRP



Document Solution Related Products. First turnkey production solution for the manufacturing of plastic cards & smart cards

TECURITY®



Technology meets Security. Software and service solutions for secure ID documents & eGovernment

eMOBILITY



Automotive industry, E-Mobility: First production lines and software for battery & fuel cell systems



PROCESS



PROCESS OVERVIEW

LET'S CHECK OUT WHAT HAPPENS WHEN MÜHLBAUER RECEIVES THE TASK TO INTEGRATE A NEW IDENTITY SYSTEM IN A COUNTRY.

As MB does not sell single products, but completely customized solution, we start with the **implementation concept** – what is the customer's need and how do we get there? To be able to verify and authenticate people and their identity documents, we will firstly set up **enrollment stations** with modern MB equipment, where every person can reliably be identified. The collected **data** will be managed and stored by secure MB systems, which are also developed in-house and adapted to the wishes and special requirements of each country. After all the preparations starts the **production process** of the documents. Mühlbauer enables its customers to produce all the needed documents by themselves. The manufactured documents are then ready to be **personalized** with the captured data from the enrollment centers. Also for this purpose, Mühlbauer fully equips its customers and supports in any difficulties and challenges. The circle closes with the **verification of documents** at checkpoints, border crossings or airports. The necessary devices and systems are also supplied directly by Mühlbauer.

CONCEPTION



- Consulting
- Solution Architecture
- Design

ENROLLMENT



- Payment Registration
- Demographic & Biometric Data Capturing
- Administrative Application Approval

DATA MANAGEMENT



- Life-Cycle Management
- Biometric Identification Systems
- PKI System

PRODUCTION



- Document Production
- Production Management
- Material Management

PERSONALIZATION



- Material Management
- Personalization Management
- Visual & Electronic Personalization

VERIFICATION



- Issuance Solution
- Border Management Solution
- eGovernment Solution



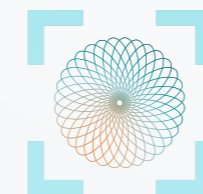
CONCEPTION

BETTER WELL THOUGHT OUT THAN TWICE DONE.

The conception of our identity projects comprises a detailed project plan with information and proposals about all the needed machines and devices, the locations they are planned to be set up, about the suiting software and its infrastructure, about administration and logistics, and about the cooperation with local suppliers and the training of staff. Our customer reveals the needs and wants – Mühlbauer converts this into an encompassing solution concept.

Insight: In the conception phase, our in-house design team defines the look and feel of the identity document together with our client. On the one hand, this design is about visual ideas and the graphical realization; on the other hand, we have to combine these aesthetic aspects with technical details. An ID card for example consists of 5 to 7 layers with different functions and made from different materials. For our Bavarian Sample ID card, Mühlbauer depicted the music notes of the Bavarian anthem on the printing layer of the ID card, just visible when shifting the card back and forth. A Bavarian Lion illustration hides on the card's front – only visible (and verifiable) under UV light.

The visual implementation turns every card into a unique piece and offers at the same time the possibility to insert security elements, which convert the polycarbonate card into a highly secure document. We call this approach Security by Design.



ENROLLMENT

EVERY HUMAN BEING IS UNIQUE. AN INDIVIDUAL'S BIOMETRIC COMBINATION IS DEFINED BY 260 OPTICAL CHARACTERISTICS OF THE IRIS, THE PATTERN AND MINUTIAE FEATURES OF THE FINGERPRINT AND A MULTITUDE OF DIFFERENT ATTRIBUTES OF THE PERSONAL SIGNATURE. THE USE OF THIS BIOMETRIC DATA HAS MADE IT POSSIBLE TO IDENTIFY AND VERIFY ANY ARBITRARY PERSON.

Each country can capture these attributes and personal data in so-called enrollment centers. Mühlbauer helps to set up these stations – either decentralized, spread all over the country, or centralized, depending on the project's structure. The German specialist delivers the needed equipment such as laptops, iris scanners, fingerprint readers and cameras to capture the biometric data.

Mühlbauer also provides the software that enters the data into the systems, manages it, and later passes it on to the machines for production of the identity documents. Payment processes can be integrated easily. This software is the most advanced data enrollment package available in today's market.

Insight: Our MB enrollment software is a flexibly designed system, which is also able to import batch data from external sources. The information can be handwritten as well as machine generated – the application recognizes every word or number without any problems. Captured pictures can be enhanced automatically or manually to meet ICAO standards. The smart software also manages it to remove backgrounds from pictures and fingerprints and replaces them automatically with an appropriate one. Even the signature is automatically extracted, defined and enhanced here. Our system supports 1D and 2D barcodes.



DATA MANAGEMENT

PERSONAL DATA IS ONE OF THE MOST VALUABLE GOODS OF A NATION.
THEREFORE, IT MUST BE ADEQUATELY PROTECTED WHILE AT THE SAME TIME MADE STRAIGHTFORWARDLY
ACCESSIBLE TO SELECTED AUTHORITIES TO ENABLE SECURE VERIFICATION AND AUTHENTICATION.

After we captured the demographic and biometric data of a person during enrollment process, it has to be protected and administrated reliably. The MB secure management system encrypts the collected datasets according to the latest standards and transfers it to selected databases to

either store or match it with already existing information. Only authorized persons are allowed to access the data and always need a security certificate to enter the system. Status or data modifications are logged and traceable to prevent any form of abuse, counterfeit or even identity

theft. The tool can be connected to other data sources or registers and features several functions to search documents, reporting statistics or handling conflicting applications. Data backups and recovery mechanisms are also available.



PRODUCTION

THE COMPLEXITY OF ID DOCUMENTS CONSTANTLY INCREASES. GROWING SECURITY NEEDS AS WELL AS ORGANIZED DOCUMENT FRAUD DEMAND THE CONTINUOUS ENHANCEMENT OF SECURE DOCUMENTS. AS ONE OF ONLY A FEW CHOSEN COMPANIES WORLDWIDE, WE ARE CERTIFIED AS SECURITY PRINTER AND SECURITY SUPPLIER BY INTERGRAF AND CONSEQUENTLY HOLD SIGNIFICANT EXPERTISE IN THE DEVELOPMENT OF CUSTOMIZED ID SOLUTIONS.

Following the prepared and agreed concept, Mühlbauer develops all machines according to individual customer requirements. Even in retrospect, any production can be easily extended or supplemented, as Mühlbauer mostly offers modular systems.

Our identity document production machines initially create the blank documents, which can be booklets, like passports, or cards, such as ID or license cards. Passports are composed of one holderpage, several visa pages and a cover. In the production process, all pages are prepared on large sheets, binded together and stamped out to be

assemble to a booklet. Both the holderpage of a passport and the ID card usually consist of several layers made from different material and with different functions. These can be printed layers for design and security features, layers with copper wire as antenna for contactless connection, or protective layers against counterfeiting and manipulation. If a chip is to be inserted into the document, a small hole is usually milled in one of the layers to embed the chip securely. For the passport, the chip can also be integrated into the cover. Each layer is manufactured individually and joined together at the end to form a whole.

Insight: Our complete production is monitored by our MB Production & Process Management Software. The smart factory system allows the collection of complete real-time production data and thus enables total transparency. With its interface to observe and analyze the production process, it supports the planning and optimization, and gives the operator the possibility to control all important factors such as the cost drivers or reject rate. Under secure access, the system can also be reached and managed on the road, which relieves the monitoring staff and provides more flexibility.



PERSONALIZATION

A PERSONALIZED ID DOCUMENT IS THE KEY TO IDENTIFY AN INDIVIDUAL. BY TRANSFERRING BOTH THE PERSONAL AND THE BIOMETRIC DATA TO THE BLANK DOCUMENT, THE ID CARD, THE PASSPORT OR THE LICENSE BECOMES UNIQUE. THIS IS THE ONLY WAY TO ACHIEVE A RELIABLE VERIFICATION.

The blank documents come from the production line to the MB personalization unit. Each produced passport has a holder page, the first and most important page, to be personalized. For cards such as ID or license cards, the front and back are filled with the personal and biometric data. The software of the personalization unit connects to the database, where all datasets have been stored during enrollment, and thus retrieves the needed information to start the personalization process.

Insight: Each document is going to be laser engraved with the picture of the holder – in greyscale or in color, depending on the customer's wishes – and with the demographic information. In the same personalization unit, the integrated chip can be fed with further biometric data such as fingerprints or iris scans by contactless chip encoding. When holderpage or card are filled with all relevant information, they can be protected through security foil lamination.

All Mühlbauer machines can be equipped with a camera inspection system. After the personalization, the smart vision system checks the finalized product for accuracy and quality and sorts out the rejects. To directly send the finished ID document to its holder, Mühlbauer also offers Mailing Systems, which automatically stick the document onto a letter, pack it into an envelope and print the holder's address on the envelope – ready to be sent out.



VERIFICATION

INTERNATIONAL TRAVELER VOLUMES RISE ON A DAILY BASIS. A MULTIPLICATION OF AIRPORT ARRIVALS AND DEPARTURES, ILLEGAL MIGRATION AND ORGANIZED CRIME LEADS TO GREATER CHALLENGES IN THE GLOBALIZED WORLD. RELIABLE VERIFICATION SYSTEMS BECOME ESSENTIAL TO COPE WITH THESE TRENDS.

In addition to the creation process of a highly secure identity document, Mühlbauer also covers the need for verification equipment for border controls, airports and checkpoints. Mühlbauer developed comprehensive systems with different stations to verify persons and their ID documents after national and international standards. With these smart MB solutions, waiting times can be significantly reduced and travel and border crossings can be realized seamlessly and hassle-free.

Insight: The MB iKiosk enables travelers to check themselves in at airports. The kiosk can read electronic passports and ID cards, and is able to take a picture of the holder and compare it with the read data and the connected database to check for authenticity. Our MB FastGate receives the check-in information from the iKiosk and verifies with the integrated cameras and sensors whether the person is allowed to pass through. The highly flexible system design allows for a tailor-made solution according to the client's requirements. Manual intervention is possible at any time, but in most cases, the

traveler passes without physical contact. This achieves the highest standards of hygiene and minimizes the error rate at the same time. For road checks or checkpoints without suitable infrastructure or with insufficient space ratio, Mühlbauer offers a mobile application for standard mobile devices such as smartphones or tablets. This easy-to-use solution is able to verify the electronic Machine Readable Travel Document (eMRTD) by comparing the read data on the one hand with databases or stop-lists and on the other hand with the real person, e.g. via facial recognition.



REFERENCES



GLOBAL REFERENCES

































300 ID PROJECTS WORLDWIDE



As one of the world's leading single-source providers of innovative and high-end security solutions, we are currently involved in more than 300 ID projects worldwide. Our successful projects range from basic solutions up to the most complex BOT-projects (Build-Operate-Transfer), including the development of a multitude of documents, vast hardware and software infrastructure measures, comprehensive trainings, as well as extensive service.

With the successful completion of numerous projects, we have developed decisive know-how and experience in defining and implementing tailor-made solutions that meet our clients' individual requirements. We do not only deliver the customized high-end systems. More importantly, we also accompany our clients before, during and after the project. We are proud to support various nations on all five continents to further enhance their security infrastructure.

KEY REFERENCES

- | | | |
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|  PEOPLE'S DEMOCRATIC REPUBLIC OF ALGERIA
National ID Card, Driver's License & Vehicle Registration |  GIBRALTAR
National ID Card & Driver's License |  SULTANATE OF OMAN
MB FastGate |
|  REPUBLIC OF ANGOLA
Civil Registry |  REPUBLIC OF GUATEMALA
National ID Card |  REPUBLIC OF PANAMA
ID Card & Voters Card |
|  ARGENTINE REPUBLIC
Fast Gate Solution for International Airport, Land border & Seaports |  REPUBLIC OF HONDURAS
National ID Card Personalization & Mailing |  KINGDOM OF SAUDI ARABIA
National ID Card |
|  COMMONWEALTH OF AUSTRALIA
ePassport Personalization |  REPUBLIC OF IRAQ
Driver's License & Vehicle Registration |  REPUBLIC OF SERBIA
MB FastGate |
|  BOSNIA & HERZEGOVINA
Driver's License, National ID Card & ePassport |  ITALIAN REPUBLIC
Driver's License |  REPUBLIC OF SOUTH AFRICA
Enrollment for Driver's License |
|  REPUBLIC OF CHAD
National ID Card, Residence Card & ePassport |  REPUBLIC OF KENYA
eID Cards |  REPUBLIC OF SOUTH SUDAN
National ID Card, ePassport & Vehicle Registration |
|  REPUBLIC OF THE CONGO
National ID Card, ePassport & Tax ID Card |  STATE OF KUWAIT
ePassport Personalization |  SWISS CONFEDERATION
Military ID Card |
|  REPUBLIC OF EL SALVADOR
National ID Card, Mobile ID |  REPUBLIC OF LEBANON
Driver's License, Vehicle Registration & ePassport |  REPUBLIC OF TÜRKIYE
National ID Card, Driver's License & ePassport |
|  REPUBLIC OF FIJI
ePassport |  REPUBLIC OF MOLDOVA
MB FastGate |  REPUBLIC OF UGANDA
National ID Card – NSIS |
|  GEORGIA
National ID Card & MB FastGate |  MONTENEGRO
National eID Card, ePassport, Driver's License, Multi-Purpose cards |  UNITED ARAB EMIRATES
ID Card & Passport Personalization |
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Enrollment & ePassport Personalization |  REPUBLIC OF MOZAMBIQUE
National ID Card & ePassport, Driver's License | |



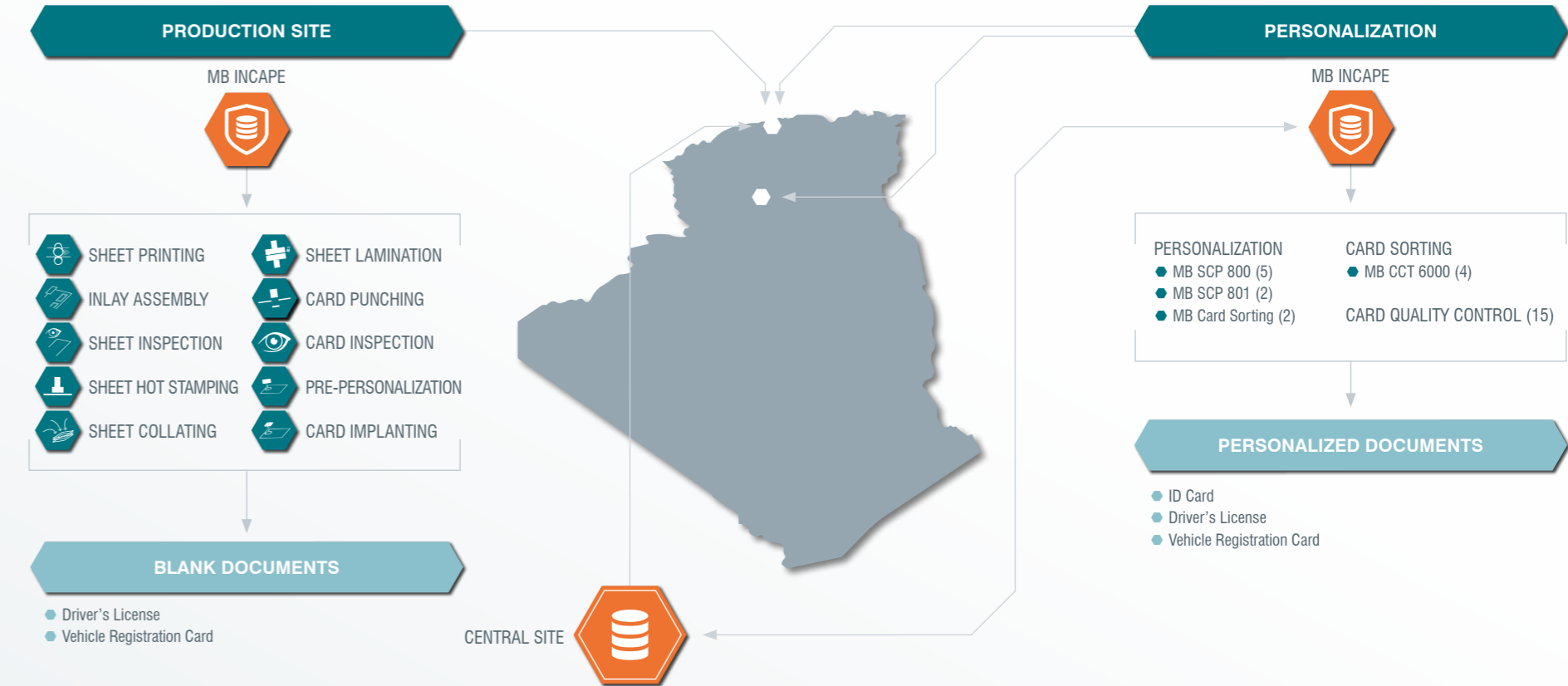


PEOPLE'S DEMOCRATIC REPUBLIC OF ALGERIA

NATIONAL ID CARD, DRIVER'S LICENSE & VEHICLE REGISTRATION

The ID card personalization project of Algeria was awarded by the Ministry of the Interior and of Local Authorities and started in August 2015. Mühlbauer closely cooperated with the Ministry to deliver card personalization equipment and a production and personalization management system for two personalization centers in Algiers and Laghouat. The centers have been equipped to personalize the new Algerian ID Card by laser engraving (image and personal data of the card holder) and chip encoding on a hybrid card. To interconnect the production and personalization management with the existing infrastructure and to ensure a smooth implementation, Mühlbauer coordinated with local partners. During the first year of operation, Mühlbauer provided supervision staff at site to support the ramp-up. Moreover, the local staff received a comprehensive training on the systems, in order to guarantee the

facility's efficient operation. After the successful completion of the first project, Mühlbauer was engaged for a follow-up project in 2016: the delivery of a complete Smart Card factory for the production and personalization of up to 5 million national driver's licenses and vehicle registration cards per year. The project included the delivery and setup of the complete plant, the development of a security concept, the systems for card body production, laser pre-personalization, inspection and personalization with the MB ALFRESCO® technology, as well as the installation of the proven production and personalization management system MB INCAPE. Besides, a comprehensive service package was included: customer staff received an all-inclusive training and Mühlbauer delivered the know-how transfer to enable the smooth operation after hand-over, including the new production unit DIN ISO certification.



MB SCP 801



MB ALFRESCO® PICTURE



REPUBLIC OF ANGOLA

CIVIL REGISTRY

In 2010, the Resident Card Project was launched by the Ministry of Migration and Foreign Services (SME) of Angola. Together with a partner company, Brithol Michcoma, Muehlbauer supplied the machines and personalization for the National Resident Card. The polycarbonate chip card with laser engraved technology is required by Foreign Residents of Angola for a period of 3-5 years, similar to a working permit.

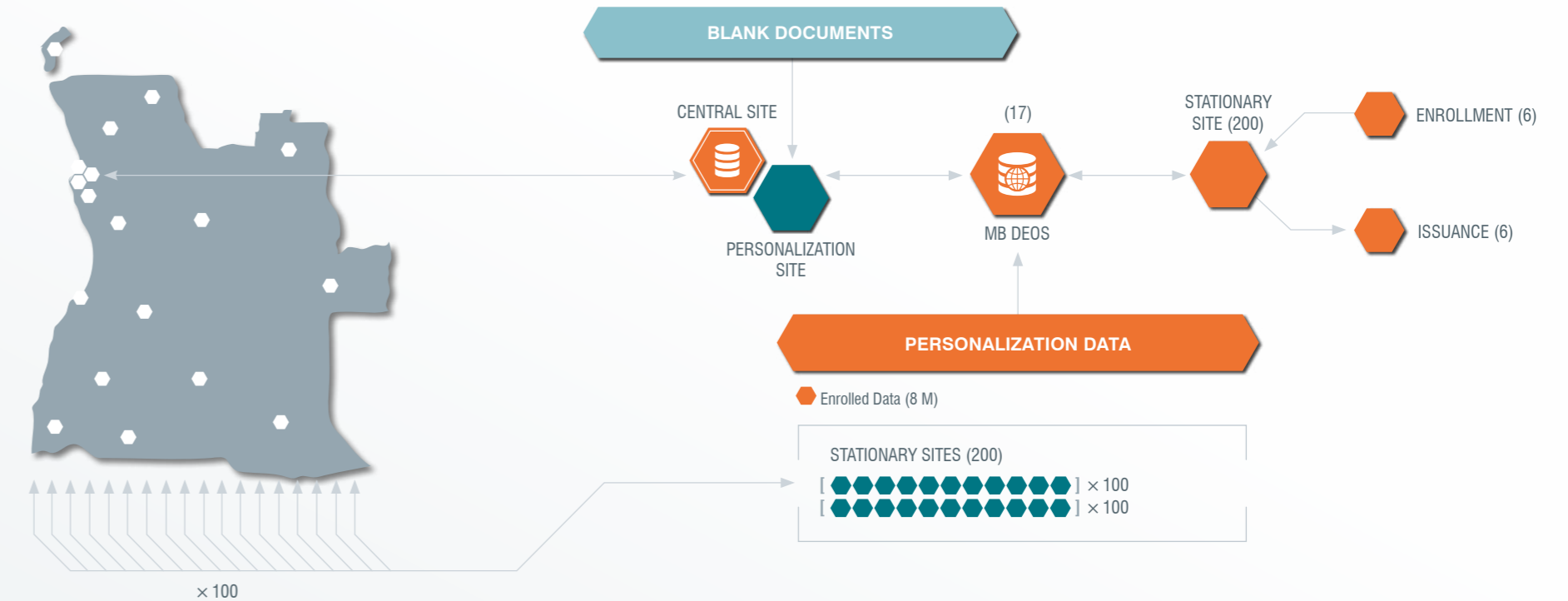
The civil registry project of the Republic of Angola, awarded by the Ministry of Justice and starting in 2014, was designed to improve security standards in Angola and optimize the interoperability between ministries through a reliable database. Muehlbauer worked in close cooperation with its partner on site to provide the complete infrastructure for an accelerated and secure national registry of all citizens.

Within only six months, Muehlbauer provided the complete hardware and software infrastructure comprising about

200 decentralized enrollment sites which are equipped with a total of 525 easy-to-operate MB GET-ID systems. They enable the comprehensive capturing of the applicants' demographic and biometric data and the scanning of official documents.

17 decentralized MB DEOS-sites have been established to process the collected data and send it to designated notaries for verification. Thus, it is ensured that the registered individuals are legal citizens of the Republic of Angola. The verified data is stored in the central national register in Luanda. It manages all data to avoid duplicated identities and handles all relevant registration steps such as birth registration.

Once an applicant's data has been enrolled, a confirmation letter is issued. It is valid as soon as the data has been verified and serves as a breeder document for further ID documents. Due to extensive training, the local staff has been enabled to autonomously register 8 million people in a minimum of time.



Customized MB GET-ID MOBILE



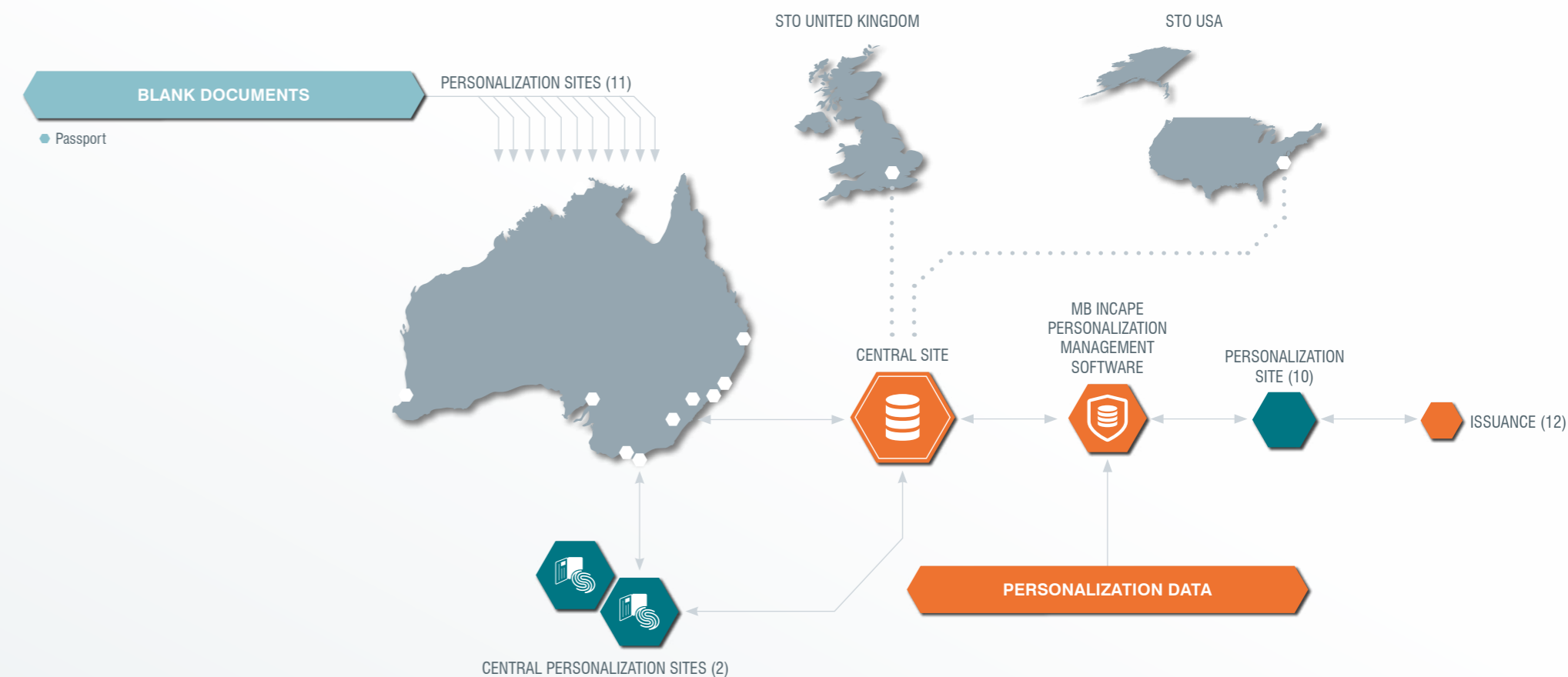
Centralized Server Structure

COMMONWEALTH OF AUSTRALIA

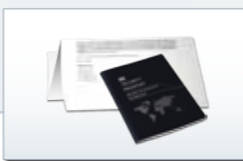
ePASSPORT PERSONALIZATION

The Australian ePassport project was awarded by the Department of Foreign Affairs and Trade (DFAT) in 2013: The project was supposed to both renew all personalization equipment and introduce a comprehensive solution (including quality print and lamination of data pages) for an average annual volume of 2.5 million ePassports. Thanks to a previous successful cooperation, Mühlbauer was designated to provide the complete personalization hardware and software, as well as the personalization management system. The 5-year project also included the seamless integration of the new system into the existing infrastructure, the supply of the complete line consumables for the project, the training of local staff, which was provided by experienced on-site staff, as well as the provision of full-time local maintenance and service support. For the personalization of the ePassports, two centers

with high-volume personalization equipment were set up in Melbourne. Additionally, documents are personalized in nine domestic and two foreign state offices in London and Washington D.C., which are all linked to the central data site and equipped with desktop personalization systems. In the course of the personalization process, MB INCAPE collects the datasets from the central secure document management system, transfers them to the personalization center and prepares them for further processing. Then the ePassports are personalized with the prepared datasets. The finalized documents are issued to the applicants by means of secure, high-speed passport mailing systems. Applicants can directly collect the finished documents in the domestic and foreign state offices.



MB IDENTIFIER 60



ePassport Mailer

BOSNIA & HERZEGOVINA

DRIVER'S LICENSE, NATIONAL ID CARD & ePASSPORT

The Agency for Identification Documents, Registers and Data Exchange of Bosnia & Herzegovina (IDDEEA) has selected Mühlbauer to deliver the hardware and software for the production of ID-1 card bodies and ePassports. The card and passport production processes are managed by the Mühlbauer production management system MB INCAPE and the material management system MB WAREHOUSE, which are located at the Mühlbauer production facility in Banja Luka. They are responsible for planning, processing, controlling and handling all production orders and material for the card and passport production center.

The Bosnia & Herzegovina ID card has successfully been issued since March 1st, 2013. The third-generation ePassport with Supplemental Access Control (SAC) started to be issued on October 1st, 2014. For both the card and the ePassport, the image of the document holder is pre-personalized in line with the latest technology for color images on ID documents and stored in one of the inside layers of the polycarbonate, thus preventing any possible misuse. All personal data and machine-readable zones are laser-engraved in the second inner layer of the polycarbonate card or holder page. Personal and other data are stored within the chip module in a digital and highly secure manner.



Driver's License – Front Driver's License – Back National ID Card – Front National ID Card – Back



ePassport Booklet ePassport Holderpage

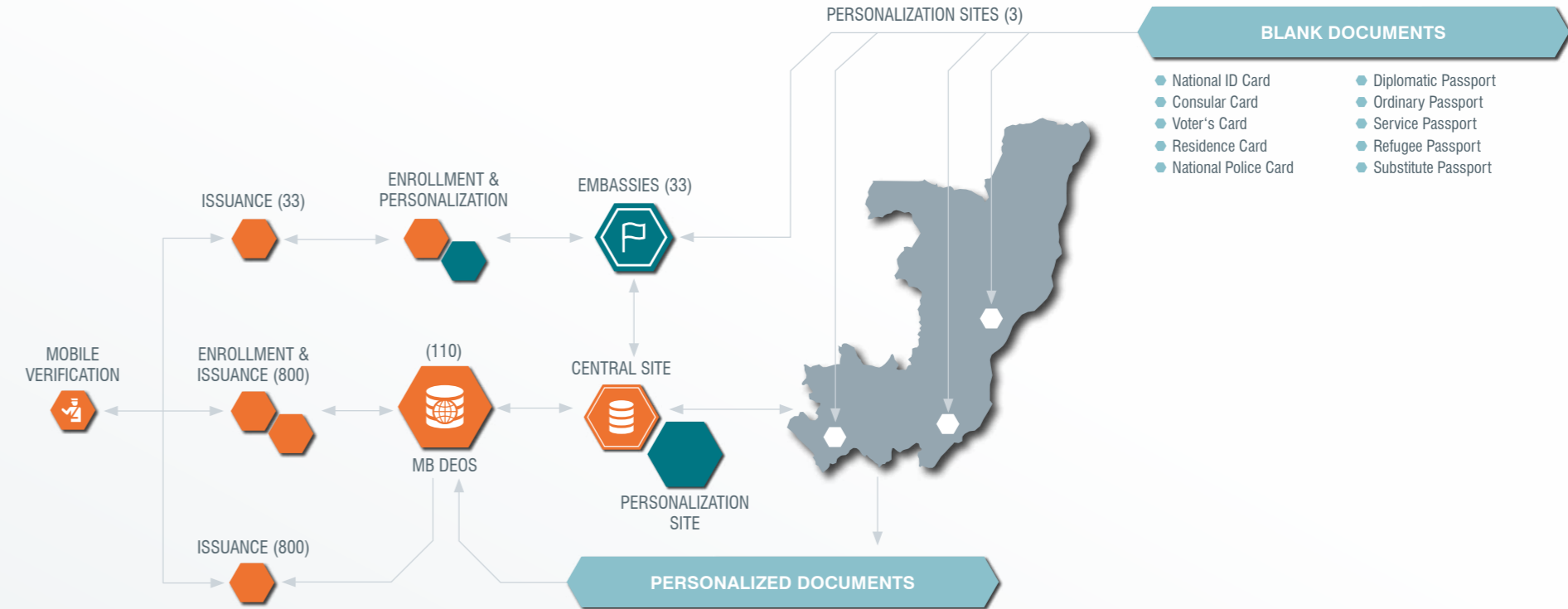
REPUBLIC OF THE CONGO



NATIONAL ID CARD & ePASSPORT

The Congolese identity project, awarded by the Ministry of Interior and starting in late 2011, comprised the development and implementation of the customized infrastructure for the issuance of high-secure ID documents. Serving as a model example for the setup of a complex system, this solution includes an extensive range of documents. Along with the existing database, the registry forms the basis of the complete national census of all citizens. The project started with comprehensive consulting and the development of the system architecture involving the setup of 800 decentralized mobile MB GET-ID enrollment units. 105 decentralized MB DEOS-sites collect and process the data. From there, they are transferred to and

managed by the central database SDM. The high-secure blank documents, produced and delivered from Mühlbauer Germany, are personalized in three sites in the capital Brazzaville, in Oyo and Pointe-Noire. From there, the finished documents are forwarded to the decentralized sites for issuance. 33 embassies abroad have been equipped with units providing for enrollment, personalization and issuance of visas, substitute passports and consular cards. Another part of this successful project is the police card solution, involving the complete hardware and software infrastructure for the registry and issuance in five decentralized offices, as well as the central database and the personalization of the blank documents in Brazzaville.



National ID Card



Consular Card



Residence Card



Voter's Card



Police Card



Mobile Verification



ePassport Booklet

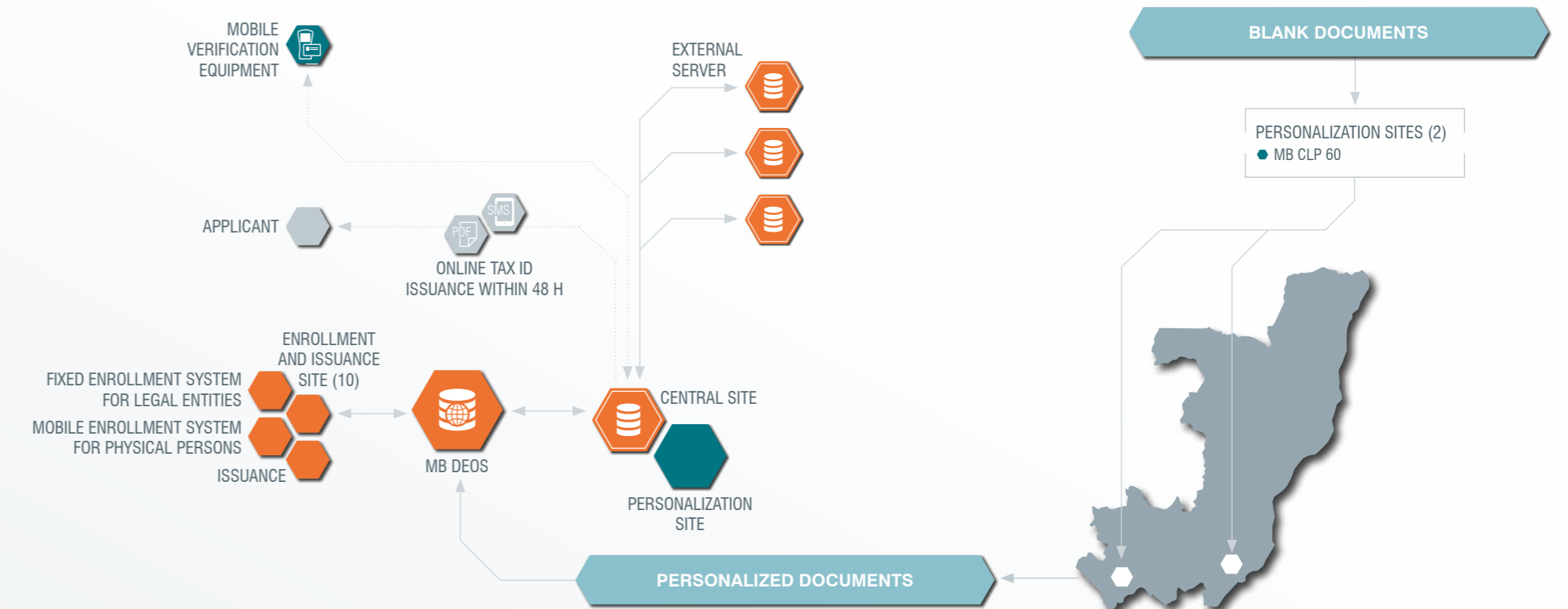
REPUBLIC OF THE CONGO



TAX ID CARD

In early 2018, after the successful collaboration in the issuance of the Congolese National ID Card and ePassport, the Republic of the Congo awarded Mühlbauer another flagship project: In order to reliably support the registration, identification and life cycle of all the country's tax payers, Mühlbauer – in close cooperation with the Congolese Ministry of Finance and Budget – developed a solution for the issuance of high-secure biometric Tax ID Cards. In ten enrollment stations across the country, private individuals as well as legal entities can get enrolled for the tax card via dedicated MB GET-ID enrollment systems. Enrolled applications are then forwarded to the main data center, where a unique tax payer's ID is generated. The applicant's demographical data and biometrics (fingerprint and iris) are used to secure the identification process and thus guarantee the tax ID's uniqueness. Multiple registration attempts and other inconsistencies can be detected by the sophisticated combination of the two

software components MB SDM and MB ABIS. Within 48 hours – as required by international standards – the applicant receives an electronic document with a unique tax ID via email (in PDF format) or SMS. In a second step, a chip-based Tax ID Card is personalized in two personalization sites (in Brazzaville and Pointe-Noire) by one of four personalization machines with state-of-the-art laser engraving and chip encoding technologies, and an overall throughput of 200.000 cards per year. Once the biometric Tax ID Cards have been issued, they are handed over to the applicant and can be used on verification devices for the visualization of the data digitally stored on the chip, as well as for the verification of the tax payer's identity. Via a third-party interface, the biometric Tax ID Card issuance system also offers the possibility to securely exchange data with external entities such as tax authorities, customs or banks.



Tax ID Card – Front



Tax ID Card – Back



REPUBLIC OF EL SALVADOR

NATIONAL eID CARD, MOBILE ID

In 2011, Mühlbauer was awarded by the Government of El Salvador to implement and operate a comprehensive National ID Card Solution for the inhabitants of El Salvador. The solution comprised twenty enrollment-, personalization- and issuance offices in El Salvador. In addition, Mühlbauer enabled 16 El Salvadorian consulates in the USA and Canada to receive applications and issue National ID Cards to El Salvadorian citizens.

The scope of the solution includes the actual ID card, approval and issuance clients, a national database, a biometric system, a data and document management system, secure communication with all sites (national and international) via MB DEOS, as well as personalization machines and software. The project is based on a Public Private Partnership agreement and executed as a Built-Operate-Transfer (BOT) project.

In June 2015, the BOT-project was renewed for five additional years. Within the scope of the contract extension, the second generation of ID cards with enhanced security features was issued. El Salvador was able to issue more than 6.2 million cards between 2015 and 2020.

Today, Mühlbauer employs over 250 people in El Salvador. Mühlbauer El Salvador, with its qualified staff, is the backbone for all Mühlbauer operations in Central America. In 2021, the government of El Salvador signed a new contract to introduce further innovative technologies. Mühlbauer implemented a new polycarbonate ID card with multiple laser image (MLI), which carries the laser engraved birthdate and portrait of the cardholder. The personalization process is based upon the MB ALFRESCO® technology, a combination of laser engraving and inkjet printing for the portrait of the owner. This secures the document as forgers cannot easily remove or alter the picture, as it is applied on different layers of the card.

In the next step, Mühlbauer extended the physical card into a mobile ID. Therefore, Mühlbauer developed the MB Steel Reader app, a mobile application which holds the information of the physical document. This information can then be shared with institutions in private and public sectors, electronically. The new hardware to enable the digital changes also comprised self-enrollment kiosks distributed all over the country.



MB SCP 60 Novus



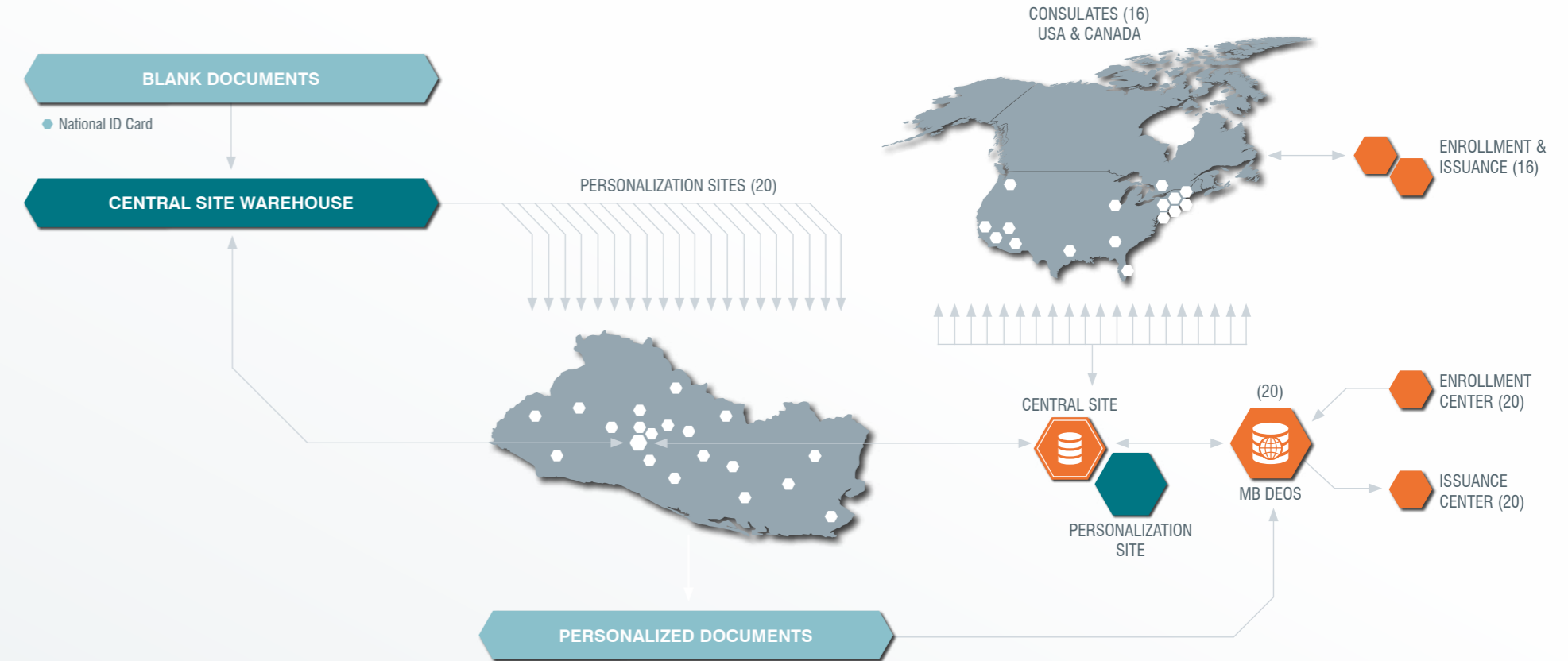
MB KIOSK



National eID Card - Front



National eID Card - Back





REPUBLIC OF FIJI

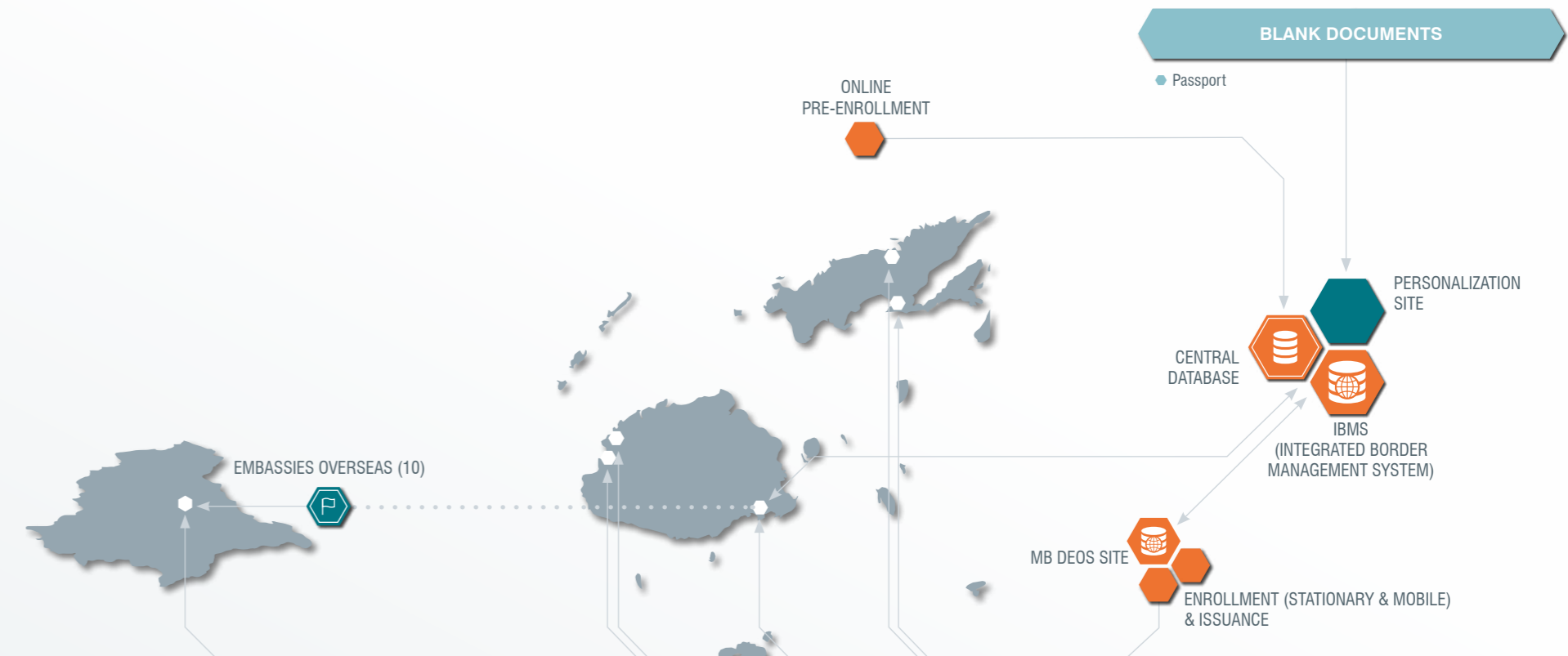
ePASSPORT

As a part of its major project to modernize the country's security infrastructure, the Republic of Fiji decided to evolve its next generation of passports to ePassports. That is why, in 2019, the Fijian Government selected Mühlbauer to trustfully handle and implement a customized, high-secure solution for the personalization and issuance of state-of-the-art ePassports. The project comprises the specification, customization, delivery and installation of the necessary IT and security infrastructure (hard- and software) for the personalization (printing) and issuance of four types of ePassports (Ordinary ePassport, Official ePassport, Emergency ePassport & Diplomatic ePassport). Furthermore, Mühlbauer provided services such as consulting, comprehensive know-how transfer by conducting trainings for the local staff of the Fijian Department of Immigration (DOI), as well as production support, service and maintenance. Additionally,

Mühlbauer integrated the existing infrastructure of the Republic of Fiji's Border Management System (IBMS) into the new ePassport system. Citizens of the Republic of Fiji can pre-register for the enrollment online before they perform the live enrollment process in one of the countrywide 5 enrollment offices which are each endowed with stationary high-tech enrollment equipment. The DOI can also resort to mobile enrollment kits that enable a transportable means of registration. The applicant's data are then collected in one of the MB DEOS sites and processed to the central database in the country's capital Suva. The blank documents are then personalized at the central personalization site in Suva and sent to the respective applicant by letter. In oversea embassies, Fijian citizens also have the possibility to enroll for an ePassport.



ePassport



ePassport Booklet Diplomatic ePassport Booklet Emergency ePassport Booklet Official ePassport Booklet

● Documents ● Hardware ● Software



GEORGIA



NATIONAL ID CARD & MB FASTGATES

The national identity project of Georgia was awarded by the Public Service Development Agency of the Ministry of Justice and started in 2010. The introduction of the most advanced eID card worldwide set a milestone in the field of ID document solutions. The polycarbonate dual interface card does not only serve as a national ID document, but it also holds an embedded chip for different services like digital signature, eBanking, eHealth, access control, payment function and public transport applications. This project is an outstanding example for the seamless integration of established standards and latest innovations into an existing infrastructure. The system architecture was enhanced by a centralized personalization site in the capital city and two decentralized sites; all of these centers were equipped with the latest personaliza-

tion technologies and mailing systems for the issuance of the finished documents. Five MB GET-ID MOBILE units were added to the existing network of decentralized enrollment sites. Mühlbauer produced the high-secure blank documents in Germany and quarterly delivered them to a central warehouse in Georgia. They were then distributed to the three personalization sites. In 2011, the follow-up project was awarded by the Ministry of Internal Affairs: the implementation of Automated Border Control units at the higher frequented Georgian airports of Tbilisi, Batumi and Kutaisi, and at four pedestrian border crossing points. The fast and reliable verification of Georgian citizens includes the matching of an individual's personal data with a variety of databases like the citizen register and several alert lists.



National ID Card – Front



National ID Card – Back



Automated Border Control (ABC)

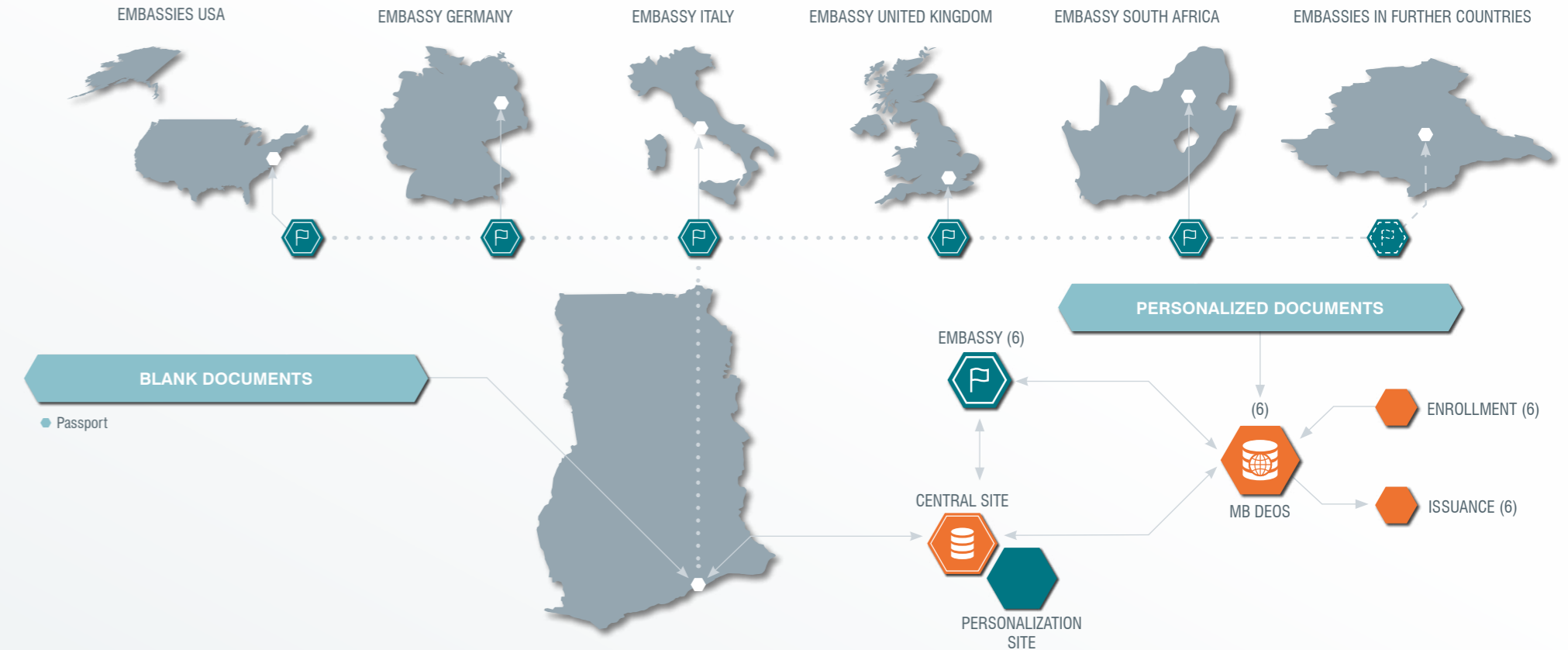


REPUBLIC OF GHANA

ePASSPORT PERSONALIZATION & INSTANT ISSUANCE

The ePassport issuance solution project for the Republic of Ghana started in 2015. It has set a new worldwide standard as it is the first solution which includes decentralized personalization on site and instant issuance of the finished ID documents outside the home country. Within only two months, six sites have been set up in embassies in Europe, North America and South Africa. The Ghanaian embassies act as decentralized centers where citizens can apply for new documents and have their complete demographic and biometric data enrolled. All centers are connected to the governmental national database in the capital Accra. There, the applicants' captured data are checked to ensure that they are legal citizens. The data

is securely transferred to the central database by means of the latest encryption technologies. All newly captured data and all acquisition processes are registered in the national database granting full transparency to the Ghanaian institutions worldwide. Within a short space of time, the blank ID documents can be personalized with the applicant's prepared dataset by means of high-end desktop personalization equipment. Before the finished document is handed over to the applicants, they have to be verified once again. For this purpose, MB GET-ID MOBILE collects the citizen's live data and matches them with the stored data. Within the smallest amount of time, Ghanaian citizens are provided with their new ID documents.



MB GET-ID MOBILE



MB IDENTIFIER 6

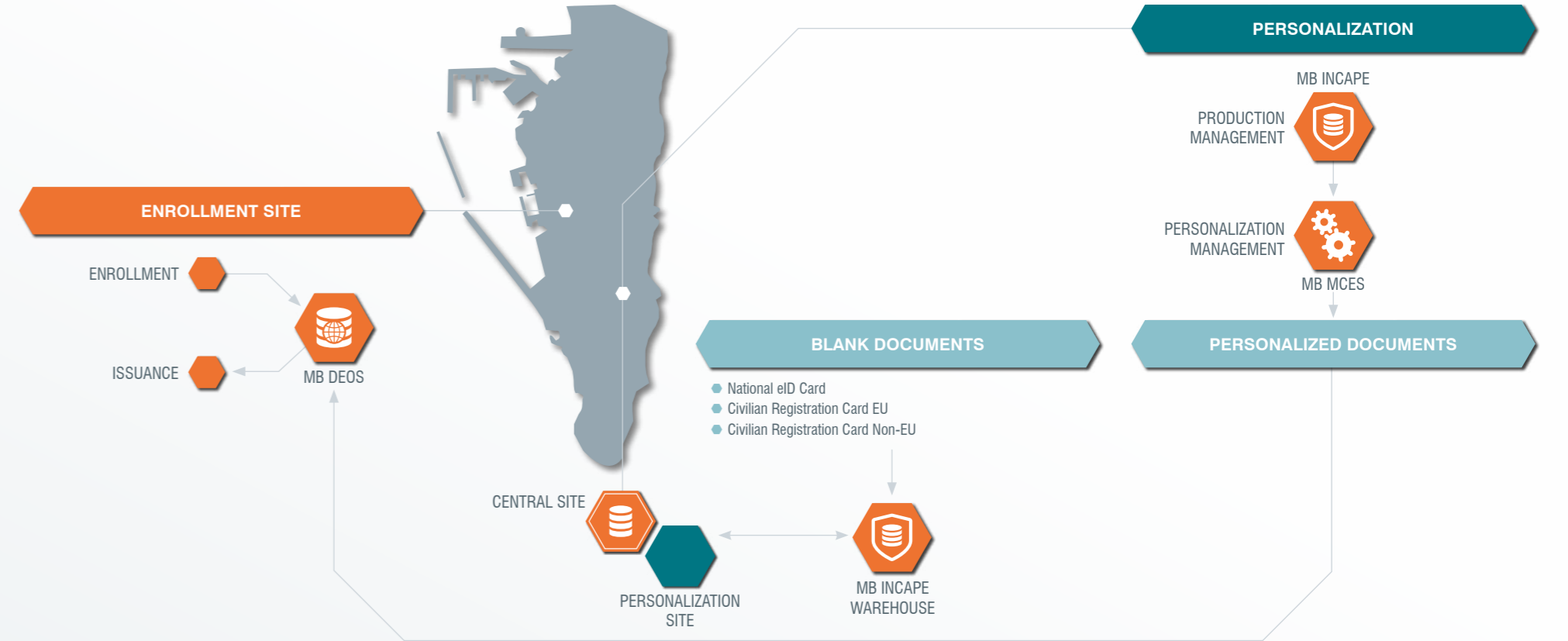


GIBRALTAR

NATIONAL ID CARD

The ID card project for HM Government of Gibraltar features Mühlbauer's most advanced ID card with a variety of integrated services. The idea behind the project was to provide a high-secure biometric ID (and travel) document which significantly simplifies government services for citizens. The eID card ensures the secure log on to a newly developed web portal to access all electronic services. Moreover, the eSignature functionality makes it possible to digitally sign electronic documents. The eID card also allows free access to education centers, libraries, parking and public transport. The new ID card itself is a highly durable PC (polycarbonate) card with outstanding security features. It is issued to the applicants only after their existing documents have expired. Mühlbauer provided the complete hardware and software infrastructure and seamlessly integrated it into the exist-

ing environment. Local staff received extensive training in advance to ensure the smooth operation during the ramp-up, which was also accompanied and supported by Mühlbauer. The enrollment centers are equipped with 10 MB GET-ID systems which capture the demographic and biometric (facial image) data. After the enrollment, the data is processed and transferred to the personalization management system which initializes the personalization of the blank document by laser engraving and chip encoding. The customized personalization systems, which have already been used for the personalization of Gibraltar's driver's licenses, were upgraded with chip coding and vision inspection modules to enhance their functionality. After the identity is authenticated at the enrollment and issuance center, the citizen receives the new ID card within a few days.



Civilian Registration Card EU – Front
 Civilian Registration Card EU – Back
 Civilian Registration Card Non-EU – Front
 Civilian Registration Card Non-EU – Back



eID Card – Front
 eID Card – Back





REPUBLIC OF GUATEMALA

ID CARD & RESIDENT CARD

In 2016, the National Registry of Persons (RENAP) of the Republic of Guatemala awarded Mühlbauer for the delivery of an overall of 6 million pre-personalized identification documents (DPI) used for the Guatemalan ID and Resident Card.

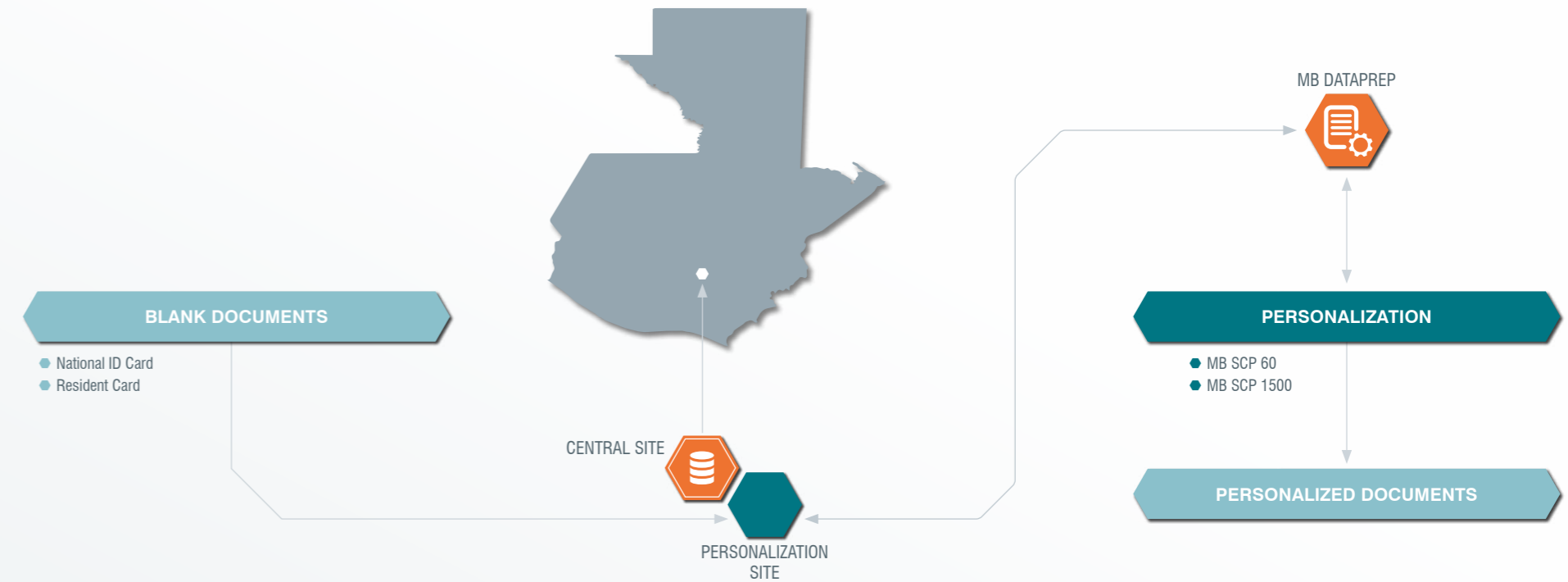
As main solution partner, Mühlbauer ensures the provision of polycarbonate Smart Cards in ID-1 format. According to the international standard ISO 7810 : 2003 Identification Cards, all cards are equipped with a contact-based chip with an EEPROM of 80 KB. The multi-application card is endowed with a Match-on-Card applet, which enables convenient and secure fingerprint authentication, as well as with PKI and an ICAO ID and travel applet.

Mühlbauer pre-personalizes all high-secure cards and the chips they contain at the Technology Center at the company headquarters in Roding (Germany) and delivers them in batches to Guatemala. At the RENAP headquarters in

Guatemala-City, Mühlbauer also provides all necessary support for a seamless card personalization process with the desktop card personalization system MB SCP 60 and the mid-volume personalization system MB SCP 1500.

In 2022, Mühlbauer received the assignment to upgrade the current ID card, which shows a greyscale picture of the holder, with a state-of-the-art ID card with full colour picture. The sophisticated MB ALFRESCO® PICTURE technology smartly combines color picture personalization with laser engraving, achieving highest protection against counterfeiting. In 2023, new SCP 2000 smart card personalization systems will be delivered to Guatemala and a new PKI system will be installed.

Thus, Mühlbauer has meanwhile received its 6th order in 8 years, which proves the good cooperation of the German company with the Central American country.



ID Card – Front



ID Card – Back



SCP 2000

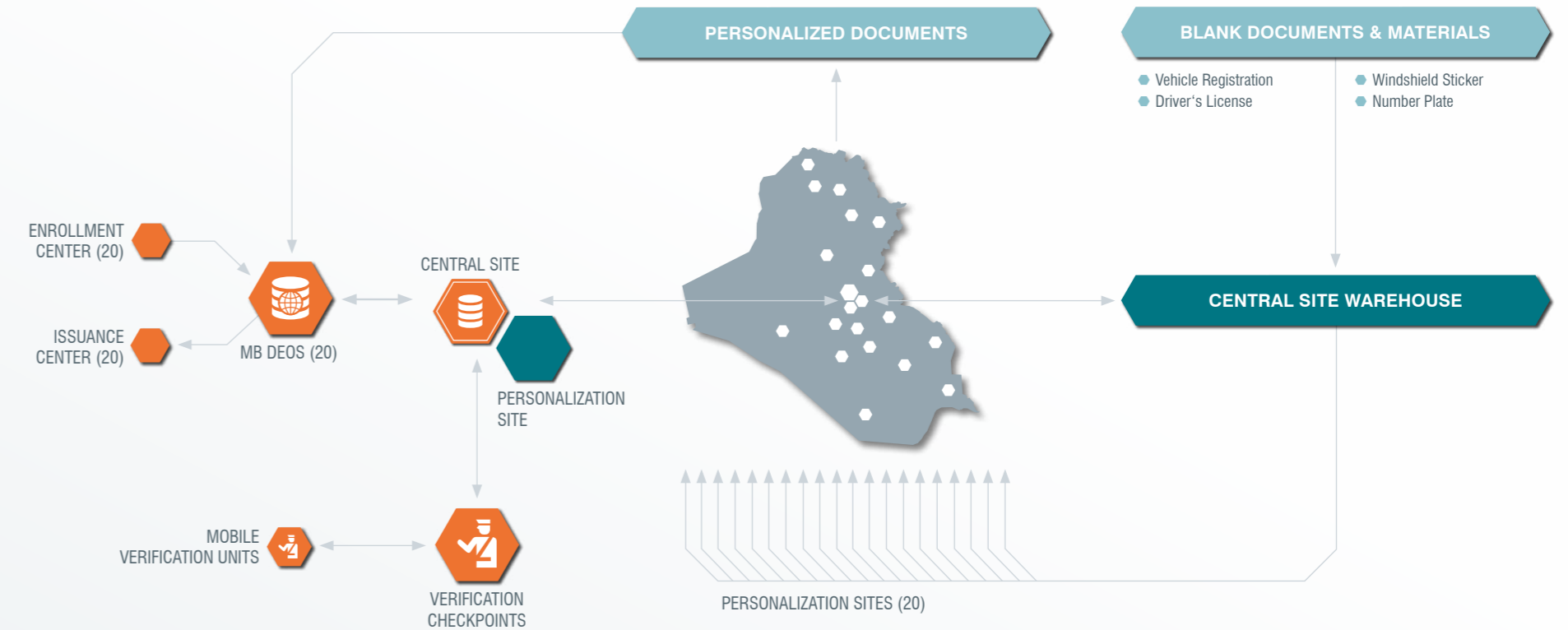


REPUBLIC OF IRAQ

DRIVER'S LICENSE & VEHICLE REGISTRATION

The Iraqi driver's license and vehicle registration project started in 2010 and represents the exemplary solution for the setup of a complete infrastructure. The solution comprised a central data site, a disaster recovery center in Baghdad and 20 decentralized sites. They are all equipped with live data enrollment hardware and software, offline enrollment units for the registration of the demographical and biometric data (fingerprint and iris), high-end laser for the document personalization and number plate pressing, as well as, for the issuance of the finished documents. The data is registered live, then processed and – depending on the distance to the capital city – transferred to the central data site either by VSAT or fiber optic. 2 million blank documents with high-end security features are delivered from

the production site at Mühlbauer Germany to a central warehouse in Baghdad. From there, the documents are distributed to the decentralized sites issuing the complete set of documents, e.g. the vehicle registration card, the windshield sticker and the driver's license, along with the license plates. The high-secure software infrastructure comprises the complete data management, personalization management and data security. The system architecture provides access to the central data site by authorized governmental institutions via web portals. Thus, the checking of the individual's complete registered and stored data is possible. The authorities received handheld devices for car inspections (taking place within assigned checkpoints) which are connected to the central database so that the data can easily be matched.



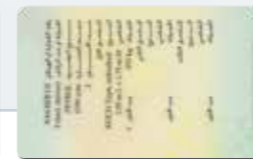
Driver's License – Front



Driver's License – Back



Vehicle Registration – Front



Vehicle Registration – Back



Mobile Verification

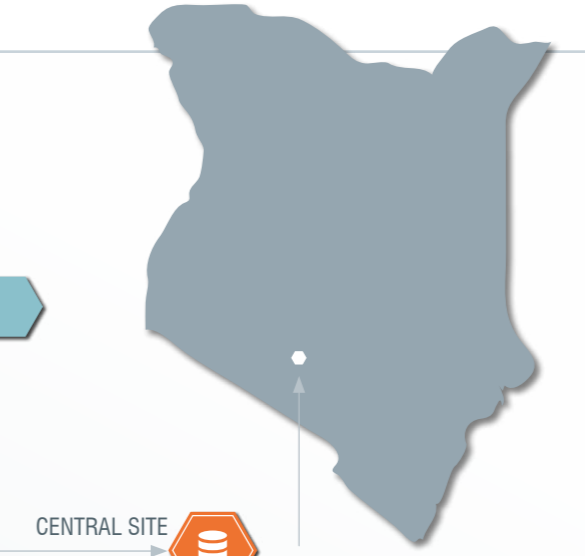
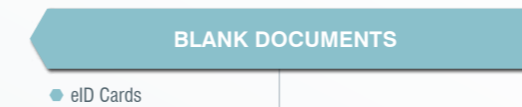


REPUBLIC OF KENYA

NATIONAL SMART ID CARD

Mühlbauer successfully implemented the electronic ID card for the citizens of Kenya. This implementation of the Smart Card Project, including the layout of the card and other technical aspects, was done within 4 weeks. Mühlbauer delivered MB SCP 2000 machines with MB ALFRESCO® technology for color and laser personalization of the electronic ID card, as well as MB CCT 6000 for quality assurance of the cards and the MB Quick Pac for packaging and shipping of the cards. In addition, the soft-

ware environment, including MB INCAPE as an integrated production management software, the MB PALAMAX® for monitoring and improving production, the MB USER MANAGEMENT, the MB TRUST PKI and other related IT hardware were successfully implemented. These technologies enabled the Kenyan Government to set up a state of the art Personalization Bureau. The Kenyan Government further contracted Mühlbauer for the supply of a total of 25 million blank cards for the Smart ID project.



- 3x SCP 2000
- 2x CCT 6000



● Documents ● Hardware ● Software



SCP 2000



CCT 6000



ID Card - Front



ID Card - Back



MONTENEGRO

NATIONAL eID CARD, ePASSPORT, DRIVER'S LICENSE, MULTI-PURPOSE CARDS

The Montenegrin identity project, awarded by the Ministry of Interior in 2019, is a best-practice example for a comprehensive document solution. It encompasses the delivery of a high-tech system for the production and personalization of the next generation of Montenegro ePassports and ID1-format ID cards, driver's licenses and resident permits.

In addition to the development of individual security design concepts for all the ID documents provided, Mühlbauer ensured the seamless supply of blank documents. The project's scope also included the delivery of a countrywide network of 21 high-tech biometric enrollment stations and document issuing sites, as well as systems for data management and state-of-the-art document per-

sonalization by means of MB ALFRESCO® Picture. The project further comprises a central system for the issuance of all documents and the set-up of software components, e.g. the enrollment and issuing software MB GET-ID, the personalization platform MB INCAPE and a Public Key Infrastructure (PKI). All software components are centralized in the Montenegrin capital Podgorica.

As main solution partner to the government of Montenegro, Mühlbauer provided all necessary support to ensure a seamless implementation of the project. The system went live in December 2019 and ever since then the authorities of Montenegro can resort to a cutting-edge system for the personalization and issuance of high-secure ID documents.



National ID Card



Multi-Purpose Card



Driver's License



ePassport Booklet



ePassport



REPUBLIC OF MOZAMBIQUE

DOCUMENT ISSUING SOLUTION AND BORDER MANAGEMENT SYSTEMS, ID CARDS, TRAVEL DOCUMENTS & ELECTRONIC VISAS, DRIVING LICENCES

In 2018, the authorities of Mozambique awarded a concession with a contract period of eight years on the basis of a public-private partnership (PPP) model to Mühlbauer. The project's scope was it to deliver, distribute, install and ramp-up a state-of-the-art system for the issuance of multiple types of identification documents for citizens and visitors. The project also included a border crossing solution and training of staff. It was to be delivered within a period of just six months after the contract signature. The management systems were distributed nationwide to 11 provinces and 177 districts, to all 13 airports, to 31 land, river and sea borders and to 45 embassies and consulates worldwide. The system can be fully operated online and offline (depending on network availability) and has the highest IT security standards regarding data security, data transfer and data loss. The system consists of four independently operable data bases for four independent authorities (citizen data, foreigner data, travel documents and border management) which are all interlinked and interoperable for national

security and information purposes. On a nationwide basis, the government issues biometric national identification cards and electronic travel documents, as well as biometric emergency travel documents for all citizens of Mozambique. In embassies and consulates, the issuance of travel documents, identification cards and emergency documents for nationals of Mozambique is supported as well. For visitors, biometric visa documents can be issued at all airports and border posts, as well as in consulates and embassies. Furthermore, resident alien cards and biometric emergency travel documents for foreigners as well as United Nation travel documents are produced. In 2022, Mühlbauer won the tender for the production and personalization of Mozambican driver's licenses with state-of-the-art MB ALFRESCO® color technology. In the same year, the eVisa was introduced by the technology expert. The matching Internet platform, which makes visa applications much simpler and more accessible, was launched in December 2022.



National ID Card



Resident Card



Visa Sticker



Emergency Certificate



Emergency Certificate Foreigners



Workers Passport



Ordinary Passport Holderpage



Diplomatic Passport Holderpage



Refugee Passport Holderpage



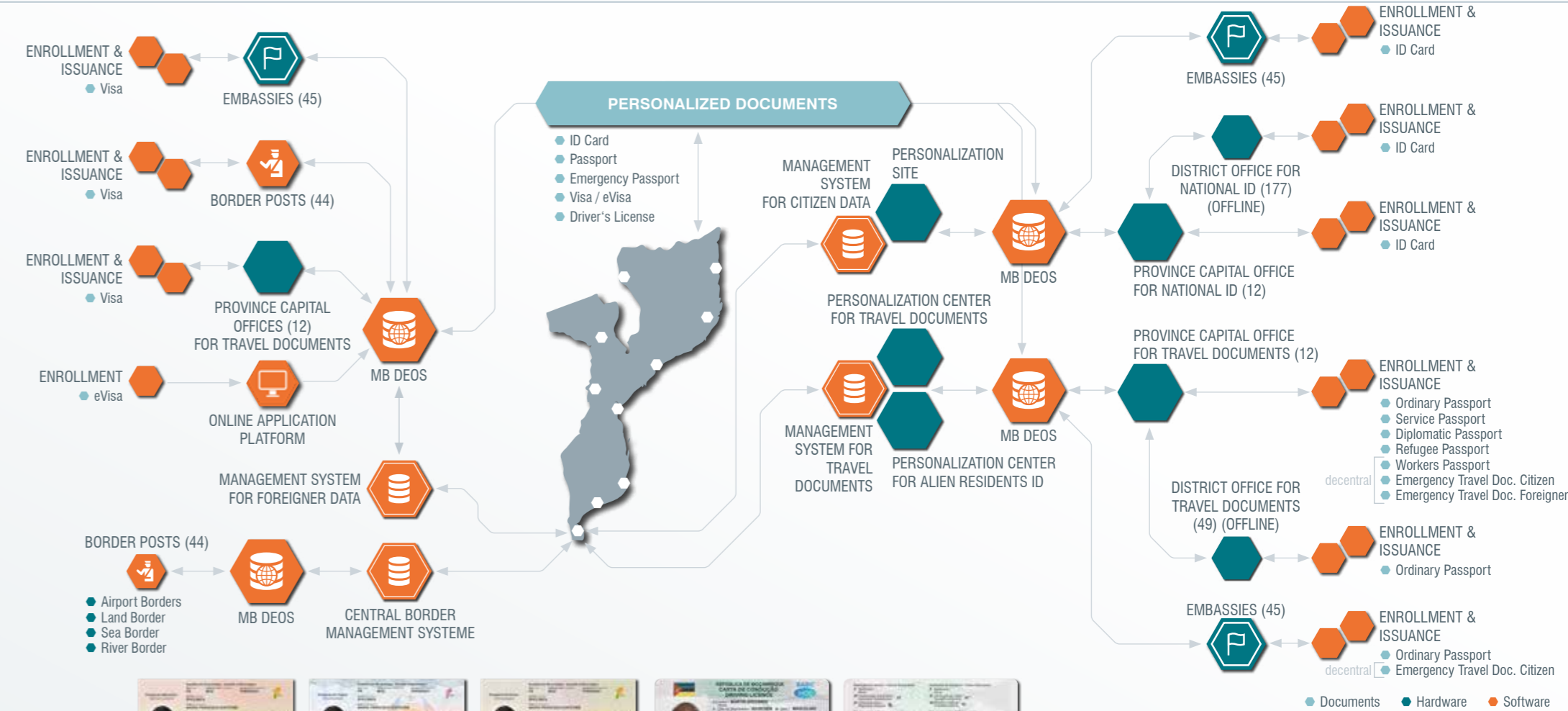
Service Passport Holderpage



Driving License - Front



Driving License - Back





REPUBLIC OF PANAMA

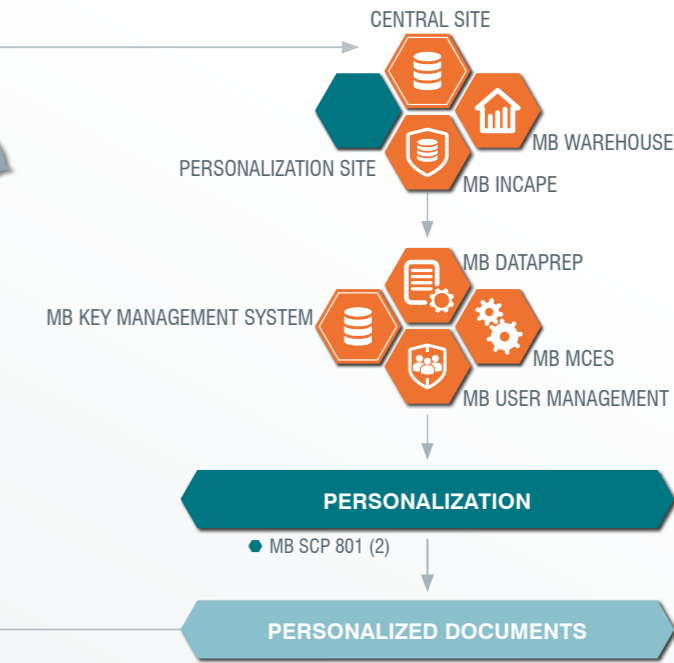
ID CARD, VOTERS CARD

The Voters Court of Panama awarded Mühlbauer for a 5 years contract to implement a new solution to provide and to personalize the new polycarbonate Voters Card of Panama. The project scope comprised the provision of 2 state-of-the-art laser personalization machines (SCP801) and setting up a new state-of-the-art personalization centre in Panama City including the training of local staff and the provision of full-time local maintenance and service support.

Additionally, Mühlbauer will deliver a total of 4.5 Mio polycarbonate ID cards as well as a state-of-the-art personalization management software and MB INCAPE for Automatic inventory management at customers side. The cloud-based system is scalable without problems, so the customer can very easily add more decentralized perso centers across the country in the future.

BLANK DOCUMENTS

- ID Documents (4.500.000)
- ID Card Standard
- ID Card Minors
- ID Card Foreigners
- ID Card Foreigners Minors



● Documents ● Hardware ● Software



National ID Card National Junior ID Card Resident Permit Junior Resident Permit



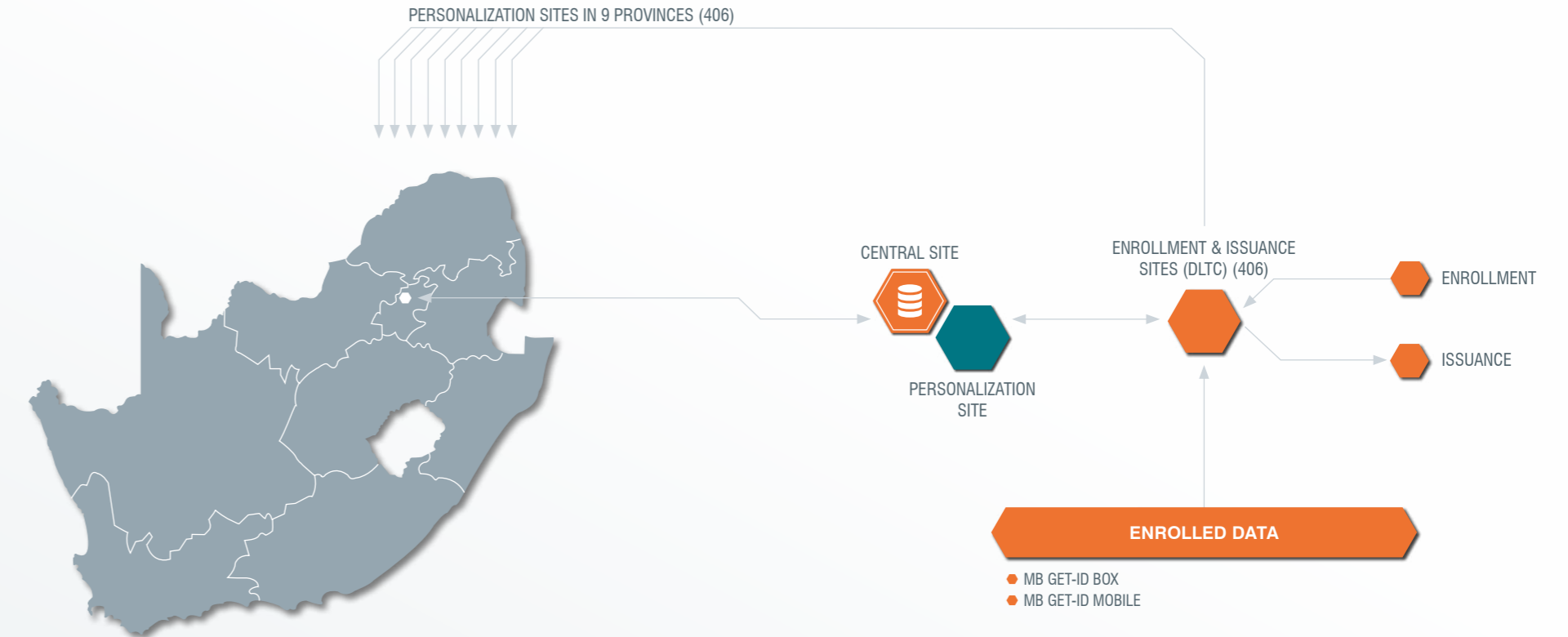


REPUBLIC OF SOUTH AFRICA

ENROLLMENT FOR DRIVER'S LICENSE

In January 2016, the contract with the South African Driving Licence Card Account (DLCA) of the Department of Transport was finalized: It set off a comprehensive project for the provision of the new Live Enrollment Units (LEU) named "MB GET-ID BOX" for the driver's license applications in South Africa. They replaced the outdated systems which had been used throughout the whole country for over a decade. Mühlbauer was working in close cooperation with a local company to deliver 1000 LEUs which were distributed among 406 Driving Licence Testing Centers (DLTC) across all nine South African provinces. The project's central effort was the development of customized units within a short amount of time. These units all have peripheral devices, such as scanners, cameras and eye testing systems, permanently and securely installed in a specially designed casing. The devices capture the

applicants' demographic and biometric (face, fingerprint, signature) data. Afterwards, an acuity and peripheral vision test is conducted. The customized units are designed to accommodate all existing back-end system interfaces to ensure seamless replacement. Moreover, a special and intuitive user management was developed. In order to monitor the LEU's activity across the country, a special control system was set up: It tracks the coordinates, makes them appear on a dedicated location map and checks the availability of the units, as well as the entire infrastructure in terms of failures in applications, services, servers and devices. An additional part of the project was the formulation of a successful change management program. It included the conduction of a comprehensive training to enable the local partners to operate the new systems and to train further operators in turn.



MB GET-ID BOX



Fingerscan

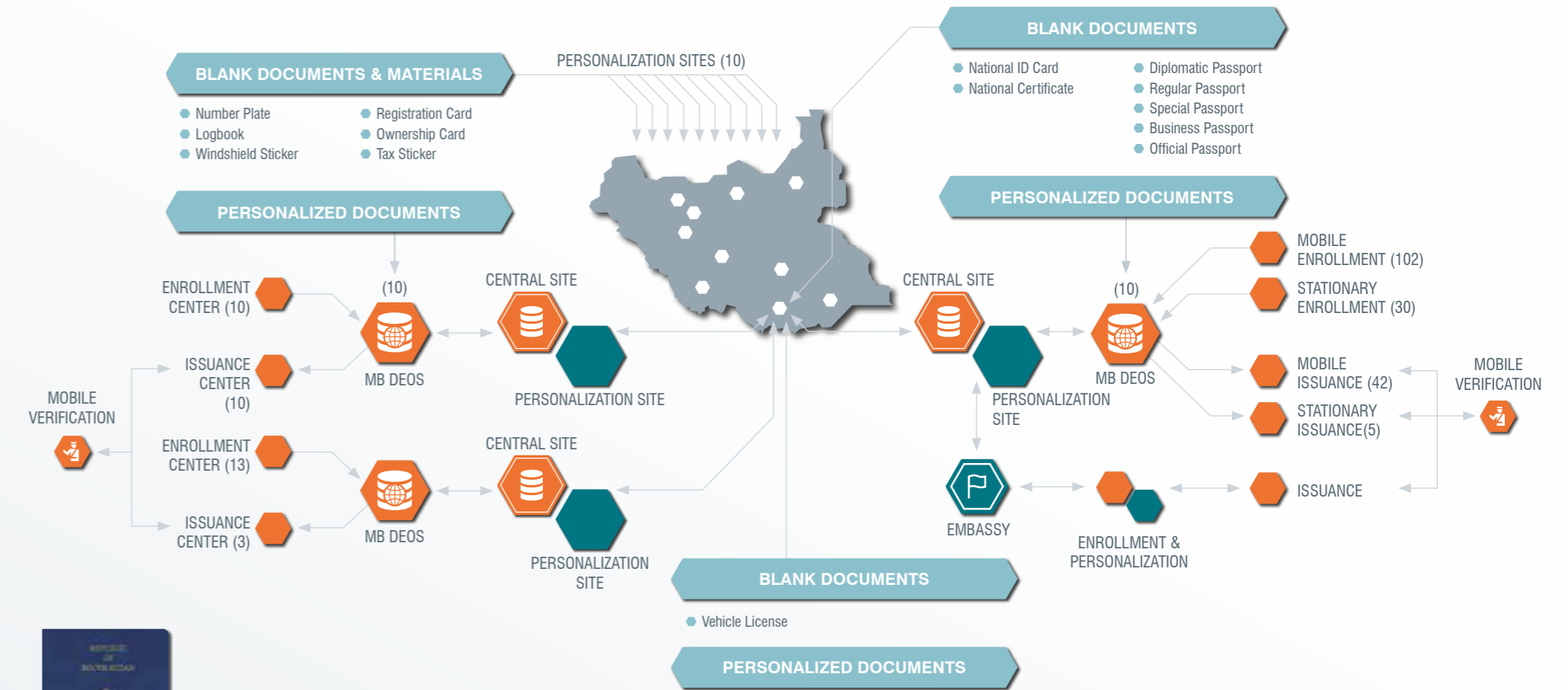


REPUBLIC OF SOUTH SUDAN

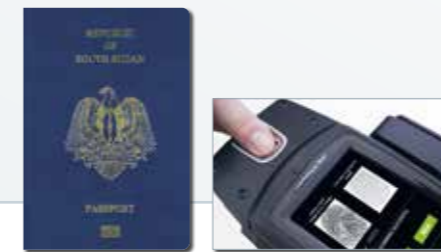
NATIONAL ID CARD, ePASSPORT & VEHICLE REGISTRATION

The South Sudan BOT-project (Build-Operate-Transfer), awarded by the Ministry of Interior in 2011, is the best-practice example for a comprehensive document solution. It encompasses the national ID card and ePassports, the driver's license and the vehicle registration system. The system architecture (including a disaster recovery system for producing and accessing ID documents at embassies abroad) and the design of the polycarbonate documents, which were determined by technical and geographical requirements, were established in close collaboration with the authorities at site. With regard to a complete know-how transfer, the local staff received comprehensive training during the course of the project to ensure an autonomous operation of the system.

The infrastructure comprises the central site, located in the capital Juba, which processes and manages data of each sub-project, as well as ten decentralized service sites – one of them located in every capital city of the ten South Sudan States – for the enrollment of ID documents. The decentralized vehicle registration sites, connected to the central site by VSAT, are equipped with high-security printers and number-plate presses for the registration, renewal and production of the documents. ID cards and ePassports, however, are personalized in the capital city. Driver's licenses are issued in a registration center in Juba only, offering pre-registration and issuance of new and renewed documents. For the verification of individuals, documents and vehicles, the traffic police have been equipped with ten mobile handheld devices.



National ID Card National Certificate Vehicle Registration Driver's License



Passport Booklet Mobile Verification

● Documents ● Hardware ● Software



SWISS CONFEDERATION

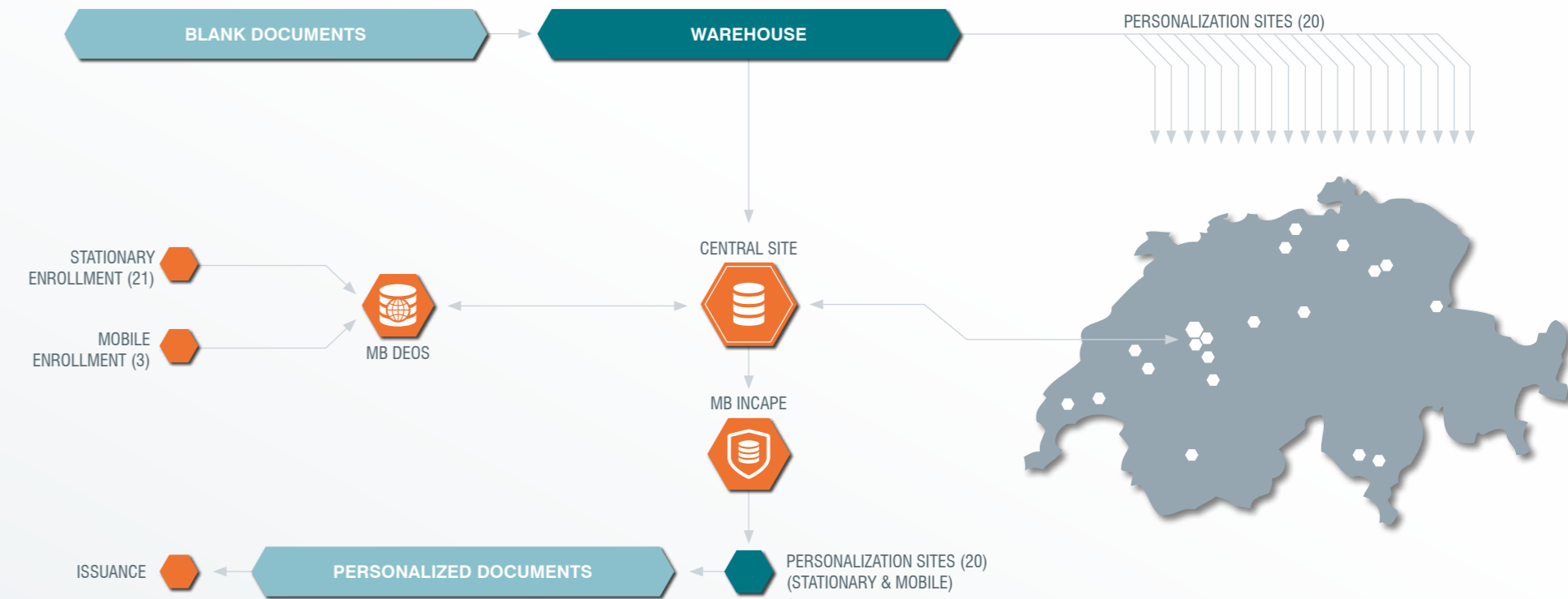
MILITARY ID CARD

With the Swiss Military ID Card, Mühlbauer delivered a card with a variety of integrated services (for example time recording and various access functions) apart from the identification of the card holder. The scope of the project was the delivery of the complete solution for the enrollment of demographic and biometric data and the pre-personalization and personalization of the high-secure military ID card. Moreover, the complete software structure was set up, including personalization management, data and document management, data matching with the national registry, as well as user management components. A special solution approach is the biometric enrollment by means of MB Self-Enrollment KIOSKS: After receiving the conscription order, all recruits have to undergo medical examination during which their personal data are requested from the national registry and processed by

operators via webportal. The military recruits then perform the additional biometric enrollment (face and signature) themselves on the MB Self-Enrollment KIOSKS. This set of data is then combined with the demographic dataset. The enrolled data is processed and transferred to a military server at the central site. Additionally, data can be enrolled via webportal for different user groups (for example external contractors) meeting the high-security requirements. Every site is equipped with personalization systems, thus enabling the decentralized personalization and issuance of the military ID card at site, right after examination. Via webportal, the administrator orders blank documents, which are equipped with state-of-the-art security features from the central warehouse. Thus, the personalization and issuance of the military ID card can be performed autonomously and independently from the central site.



MB Self-Enrollment KIOSK



● Documents ● Hardware ● Software

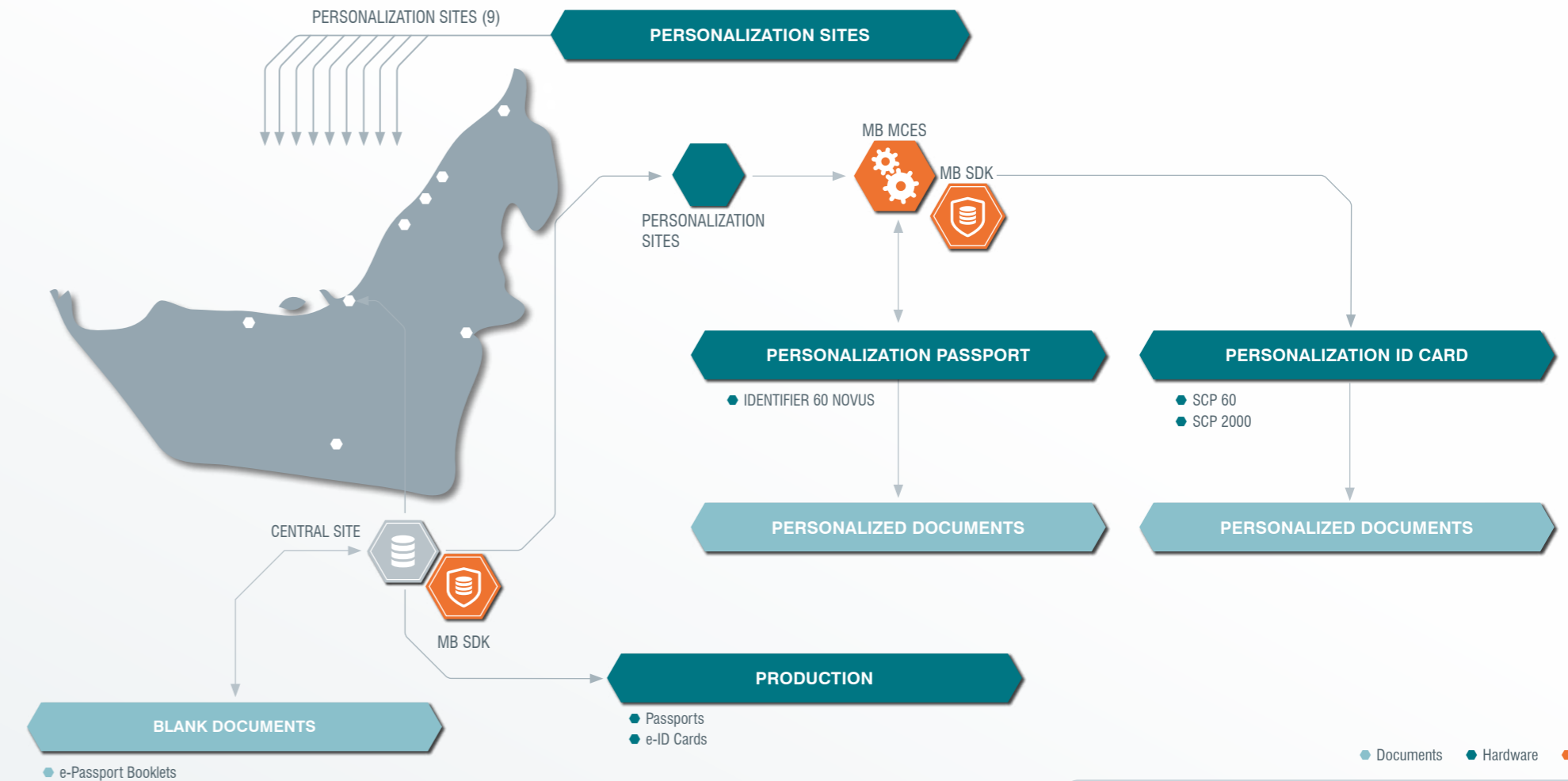


UNITED ARAB EMIRATES

ID CARD, ePASSPORT

The Federal Authority for Identity, Citizenship, United Printing and Publishing assigned Mühlbauer in February 2021 to propose a new generation of the UAE National ID card and ePassport. The project's goal is to replace all current ID cards and electronic passports with highly-secure documents, which are going to be personalized by UAE authorities with Mühlbauer's innovative technology MB ALFRESCO®. For UAE citizens, this also includes both centralized and decentralized ID cards as well as ePassports issued at the national level. The delivery of all equipment necessary for United Printing & Publishing to

begin producing the new Generation of National ID cards and passport booklets was also part of Mühlbauer's solution. In addition, the team joined the project and provided ramp-up and production support, which was extended after a year. Mühlbauer was the only company that is able to deliver the complete solution for the whole project and go live within the challenging time frame of 6 months. In August 2021, the production went live. In March 2023, the new UAE ID card wins the High Security Printing Award for the Best New National ID Card.



SCP 60



SCP 2000



IDENTIFIER 60 NOVUS

PARTNERS



EXEMPLARY QUOTES



“We really appreciate Mühlbauer’s work which met all of our high expectations in terms of quality and security of the complete national ID card project.”

Colonel Henri Jacques Kienaka, Le Directeur de l'Identification Civile, Ministère de la Sécurité et de l'Ordre Public, Republic of the Congo; Project: ID Card Issuance Solution



“Mühlbauer’s technology is fundamental for our citizens to have a reliable identity document.”

Margarita Velado, President of Natural Persons National Registry (RNPN), Republic of El Salvador; Project: ID Card Issuance Solution



“We, Official Printing House of the People’s Democratic Republic of Algeria, are delighted and very satisfied with the partnership with Mühlbauer ID services. All our assistance requests are met with the best deadlines. Our current collaboration is proof of our complete satisfaction.”

Imprimerie Officielle Algeria; Project: Complete card factory, Driver’s License, Vehicle Registration cards production



“Mühlbauer turned out as very competent and flexible and we feel confident with choosing MB as a technology provider.”

Brigader Majed Shanon, The Manager of Traffic Project, General Directorate of Traffic Police, Ministry of Interior, Republic of Iraq; Project: Driver’s License and Vehicle Registration Card Personalization



“Mühlbauer’s solid expertise and client-oriented approach were instrumental in the realization of this very successful project.”

Giorgi Gabrielashvili, Head of the Civil Registry Agency of Ministry of Justice, Georgia; Project: eID Card Issuance Solution



“We are glad to have MB as a reliable partner; the technology and services provided by MB have proven excellence.”

D. Flavio Ramon Brocca, IT Head of the Civil Registry, Argentine Republic; Project: MB FastGate



“We are proud of the new ID and grateful for the excellent solution of the company Mühlbauer. Made in Bavaria – for Bavaria”

Mr. Joachim Hermann, Minister of the Interior, for Sport and Integration, Bavarian State Ministry; Project: New Bavarian Police ID Card



“We feel very confident with the technology and services provided by Mühlbauer and are convinced that we made the right selection.”

Brig. Gen. Augustino Maduot Parek, Director General of Nationality, Passport and Immigration, Ministry of Interior, Republic of South Sudan; Project: Identity Document Issuance



“We express our deep respect towards Mühlbauer for the reliable partnership.”

Giorgi Tepnadze, Manager of the Head Office, Operative Technical Department, Ministry of Internal Affairs, Georgia; Project: MB FastGate



“Mühlbauer supported us in all matters in a flexible and client-oriented manner.”

Carlos Lago Iglesias, Director de Imprenta, Real Casa de la Moneda, Spain; Project: eID Card Personalization



“With the experience of numerous, successfully realized ID projects in the past decades, Mühlbauer trustfully handled and implemented a customized solution for the personalization and issuance of ePassports which exceeded our expectations by far.”

Mr. Yogesh Jitendra Karan; Acting Permanent Secretary for Foreign Affairs; Republic of Fiji; Project: ID Card Issuance Solution



“Mühlbauer has proved to be a reliable contractor and has given its full and perfect support.”

Viktor Redcenco, Director of the Production Department, REGISTRU – State Information Resources Center CSIR, Republic of Moldova; Project: MB FastGate



“We feel to be in good hands with Mühlbauer.”

Jacqueline Kwan, Assistant Director of Immigration, The Government of the Hong Kong Special Administrative Region; Project: ePassport Personalization



“Mühlbauer was in the position to manage this project in a highly professional way.”

František Maleč, Technical Director, Státní Tiskárna Cenin, Czech Republic; Project: ePassport Personalization



“Every Kenyan gets a single identity, we call a single source of truth or in Kiswahili Huduma Namba”

Dr Fred Matiang’i, Interior Cabinet Secretary, Nairobi; Project: National eID Card



“MB’s identification solution has contributed to a better security in citizen identification process.”

Ing. Rodolfo Arriaga, Director Ejecutivo de RENAP; Project: National ID Card & Resident Card



“We appreciate Mühlbauer as a reliable, solution-oriented, flexible and strong partner in our ePassport project during all stages of planning and implementation.”

Slobodan Nedeljkovic, Assistant Minister, Head of Sektor, Ministry of Internal Affairs, Serbia; Project: ePassport



“We appreciate Mühlbauer as a reliable, solution-oriented, flexible and strong partner.”

Issac Ieng Kit Lai, Director Identification Services Bureau, The Macau Special Administrative Region Government; Project: ePassport Issuance Solution



“We highly appreciate Mühlbauer’s support in this project. We feel confident that our decision to select Mühlbauer was the right one.”

Jamoliddin Ubaidulloev, Head of Consular Department of the Ministry of Foreign Affairs of Republic of Tajikistan; Project: ePassport



“We appreciate Mühlbauer’s commitment, work and ongoing cooperation concerning the national ID and Passport and Border Control Project.”

Dr. Zefanias Seneta Mabile Muhate, Permanent Secretary of the Ministry of Interior; Project: Document issuing solution and Border Management systems, ID Cards, Travel Documents & Electronic Visas, Driver’s Licences



“We are very satisfied with the choice of our manufacturer. The cooperation with Mühlbauer is trusting and constructive.”

Walter Valeri, Director Passport Production Center, Department of Foreign Affairs and Trade in Australia; Project: Hardware and Related Services for the Personalization of the Australian Passport



“Mühlbauer has provided excellent service and support for the recently completed biometric enrollment of approx. 5 million citizens in the very short time frame of 6 weeks.”

A.M. Kirunda Kivejinja, 3rd Deputy Prime Minister / Minister of Internal Affairs, Republic of Uganda; Project: ID Card Issuance Solution



“This project will ensure every driver and vehicle is registered, bringing more certainty to Kurdistan Regional Government’s registries, public finances and safety.”

His Excellency Mr. Masrour Barzani, The Prime Minister of Kurdistan Regional Government; Project: Driver’s License and Vehicle Registration



RELIABLE PROJECT PARTNER

WITH OUR VISION AND OUR INNOVATIVE SOLUTIONS WE HAVE EARNED THE CONFIDENCE OF GOVERNMENTS AND PUBLIC AUTHORITIES WORLDWIDE AND WE CONVINCED THEM EVERY DAY ANEW. WE ARE COMMITTED TO OUR CUSTOMER'S COMPLETE SATISFACTION AND SEE OURSELVES AS THEIR PARTNERS. OUR MOST IMPORTANT VALUES – TRUST AND RELIABILITY – SERVE AS THE CENTRAL GUIDELINES FOR ALL OUR ACTIONS.





WE TAILOR YOUR SOLUTION – MÜHLBAUER

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