

# Smart Apps

The mobile multi-tool for your pocket



# Smart Apps based on secunet biomiddle

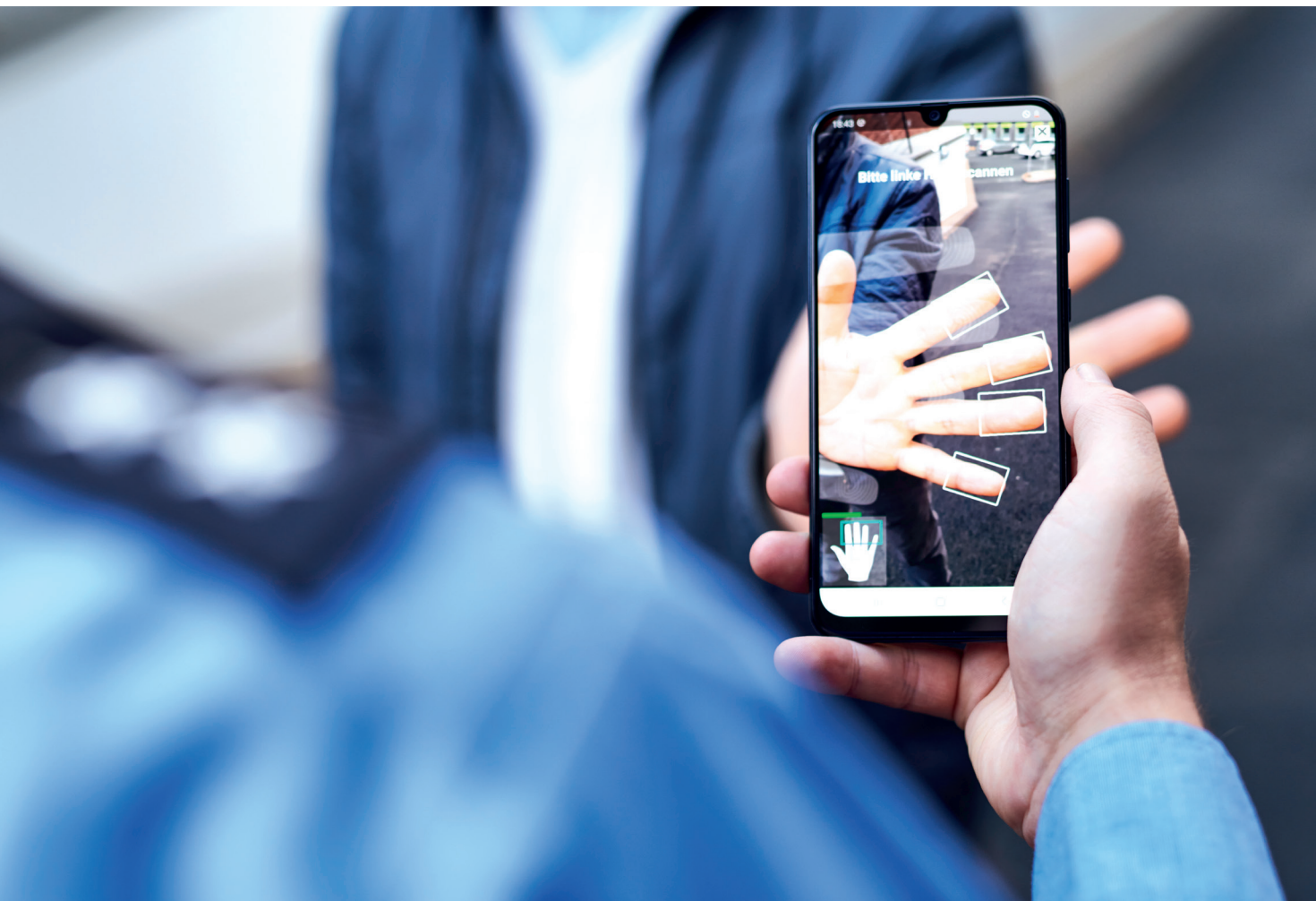
Mobility is crucial for modern police operations, which is why smart apps are essential for everyday use in the field.

Through biomiddle, secunet makes process-relevant functions available in any app in the simplest way possible. This includes, for example, reading and checking ID documents, performing facial comparisons, taking fingerprints, communicating with background systems and digitizing processes and vehicle information.

The secunet biomiddle solution, developed jointly with the German Federal Office for Information Security (BSI), forms the core for versatile police applications related to document verification, identity verification and biometrics.

Thanks to a combination of unique middleware and years of innovative partnership with the German Federal Police, the mobile ecosystem surrounding secunet biomiddle and the associated apps for relevant processes within the police work is constantly evolving.

The document verification app and background check app were developed in collaboration with the German Federal Police and lay the foundation for the use by police work in everyday life. This has resulted in numerous other applications and extensions to the existing apps, such as apps for digital transaction processing or for connection to background systems. They are available for both Android and iOS. These functions can also be used by other authorities and processes can thus easily be used on the move.

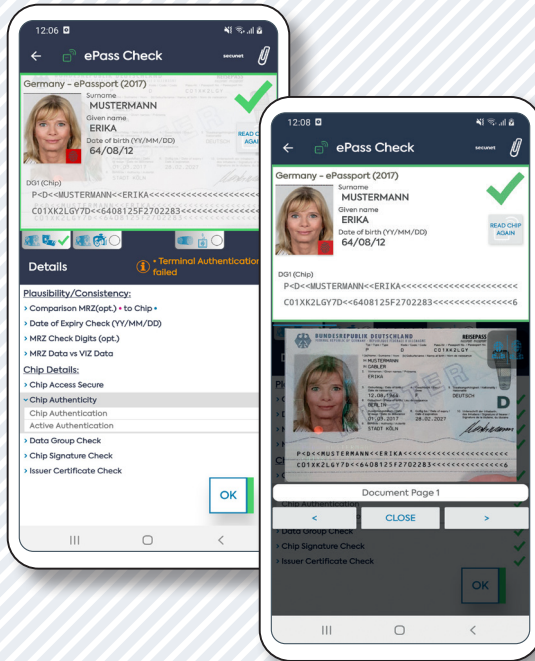


## Product features and advantages

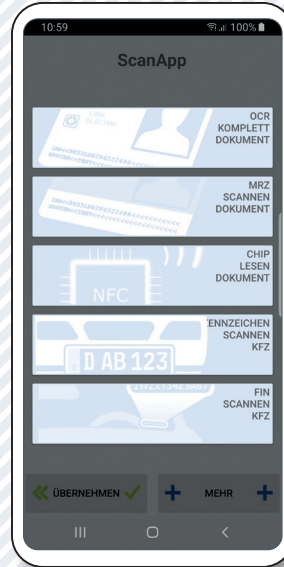
- Sandboxing and minimal permissions help protect sensitive and personal data
- Works together with Samsung Knox
- Flexible rollout via Mobile Device Management (MDM)
- Separate app updates and maintenance
- Once installed, various apps can make use of the biomiddle framework
- Both secure apps and customer-specific apps based on the biomiddle Software Development Kit (SDK) can be used
- Additional advisory services, e.g. operating concepts and app development
- Flexibly expandable range of functions
- Easy exchange of components (no vendor lock-in)
- Low cost and maintenance requirements on the part of the user
- Constant further development with a focus on the customer
- Reduction of the workload on police officers through automated and digital processes in mobile use
- Avoidance of media breaks and errors during input, transmission and transcription
- Ensuring the quality and reliability of mobile electronic verification of eID documents closely based on the border control system at the airport



## Document verification



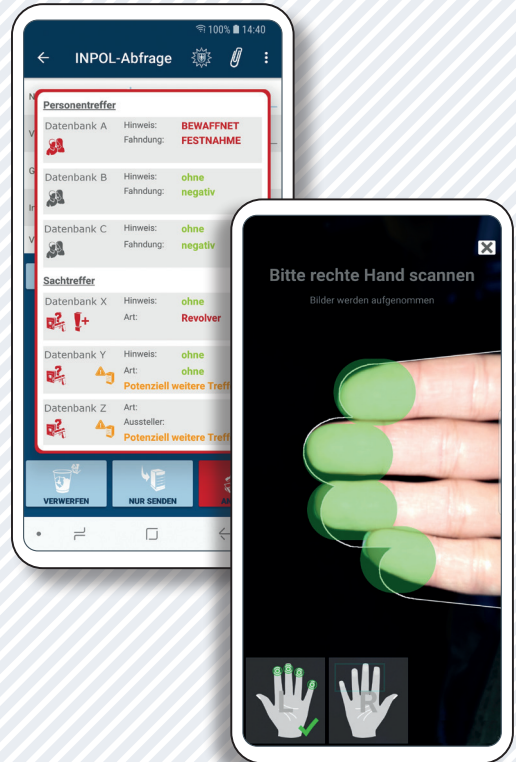
## Case management system



## Digitization of vehicle data



## Background check systems



# Application examples

## Document verification

The quality and scope of the electronic document check is based on the applicable standards of the German Federal Office for Information Security (BSI) for border control, including the connection to the Terminal Control Centre (TCC). This means that authorized bodies can also read out the restricted area of the chips. Whereas most apps perform a pure readout of personal data at this point, the document check of the secunet apps also performs a real check of the eID documents.

## Integration into the case management system

The list of data to be transferred is long – but the time for the transaction is often too short. Thanks to biomiddle, captured data such as facial images, fingerprints or vehicle license plates can be transferred to the case management system automatically and in no time at all. One German state police, for example, uses its own scan app to transfer data to the transaction processing system, which was developed jointly with secunet on the basis of biomiddle. It is additionally possible to integrate the biomiddle SDK directly into the case management system app. This seamless approach is used, for example, by Dataport (@rtus mobil).

## Digitization of vehicle data

The digitization of vehicle data is not only important when it comes to traffic accidents. The ability to perform a simple digitization of a license plate number, tire identification number or the long 12-digit vehicle identification number is also an enormous relief for the officers when querying vehicle databases.

## Background check systems

biomiddle is suitable for biometric and non-biometric background check systems: text-based databases (e.g. INPOL) or biometric databases (e.g. Fast-ID) or facial databases can all be integrated with the same ease.

## WrapperApp

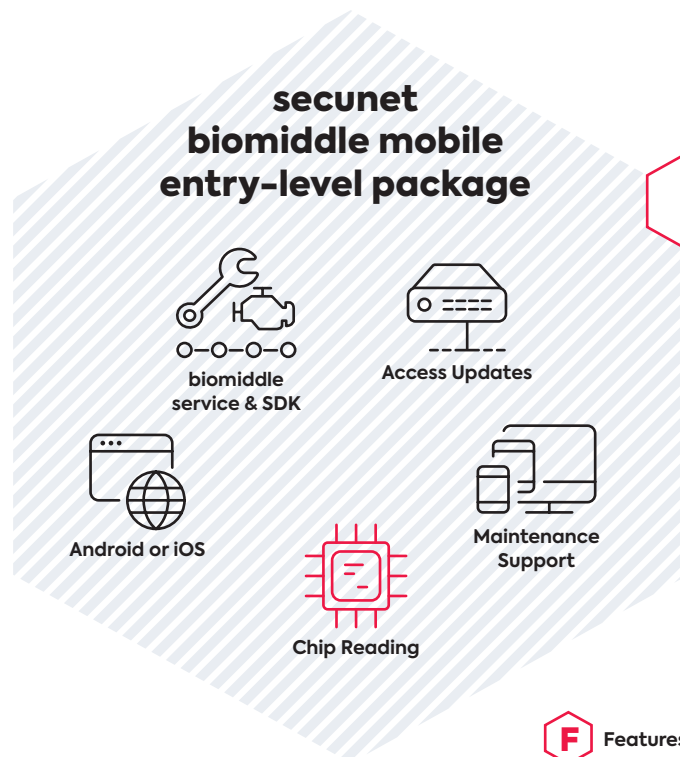
Customers who run browser-based web applications often face the same problem: they have to overcome the challenges of mobile operating systems and devices. To this end, secunet has developed the WrapperApp based on secunet biomiddle technology. Thanks to WrapperApp, web applications pre-installed on smartphones can be quickly and easily deployed, and thus web apps can take full advantage of the sensors and processing power of mobile terminal devices.

# Architecture and features

Besides automatically capturing the Machine Readable Zone (MRZ) and electronically reading the chip in eID documents, biomiddle also features functions for capturing additional textual information, such as the entire Visual Inspection Zone (VIZ).

It enables the capturing of fingerprints using appropriate hardware scanners, as well as contactless fingerprint capture and comparison. The same applies to the biometric capture and comparison of facial images.

Scanning vehicle identification numbers (FIN/VIN) and license plates is also made possible within seconds with secunet biomiddle. The same level of modularity and flexibility is offered across all platforms – on both Android and iOS. The programmer can also use the respective SDK version in almost the same way.



### Processing of vehicle data



Licenseplate Scanning



VIN Scanning



TIN Scanning

### Handling biometrics



Face Image Taking



Fingerprint Scanning



Face Comparing



Finger Comparing



Touchless Fingerprint Scanning



Tooling & Converting

### Optical and electronic document check



MRZ Scanning



Doc Scanning



Chip Reading



Barcode Scanning



Digital Seal/AZR/AKN Scanning

### Future topics



Web Apps



Connectivity



Monitoring



Mobility

Through the secunet biomiddle mobile SDK, customers can integrate all features with just a few lines of code – irrespective of the manufacturer. In the biomiddle mobile sample app, integrators can find code references for all features, along with additional developer documentation with more information. The SDK serves as a service-oriented interface. The data is first formatted and then compiled in the user app. All data is presented in a user-friendly and concise manner, making everything visible at first glance.

## **secunet – protecting digital infrastructures**

secunet is Germany's leading cybersecurity company. In an increasingly connected world, the company's combination of products and consulting assures resilient digital infrastructures and the utmost protection for data, applications and digital identities. secunet specialises in areas with unique security requirements – such as cloud, IIoT, eGovernment and eHealth. With security solutions from secunet, companies can maintain the highest security standards in digitisation projects and advance their digital transformation.

Over 1,000 experts strengthen the digital sovereignty of governments, businesses and society. secunet's customers include federal ministries, more than 20 DAX-listed corporations as well as other national and international organisations. The company was established in 1997, is listed in the SDAX and generated revenues of around 337 million euros in 2021.

secunet is an IT security partner to the Federal Republic of Germany and a partner of the German Alliance for Cyber Security.

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