SOP
Secure Onboarding Process
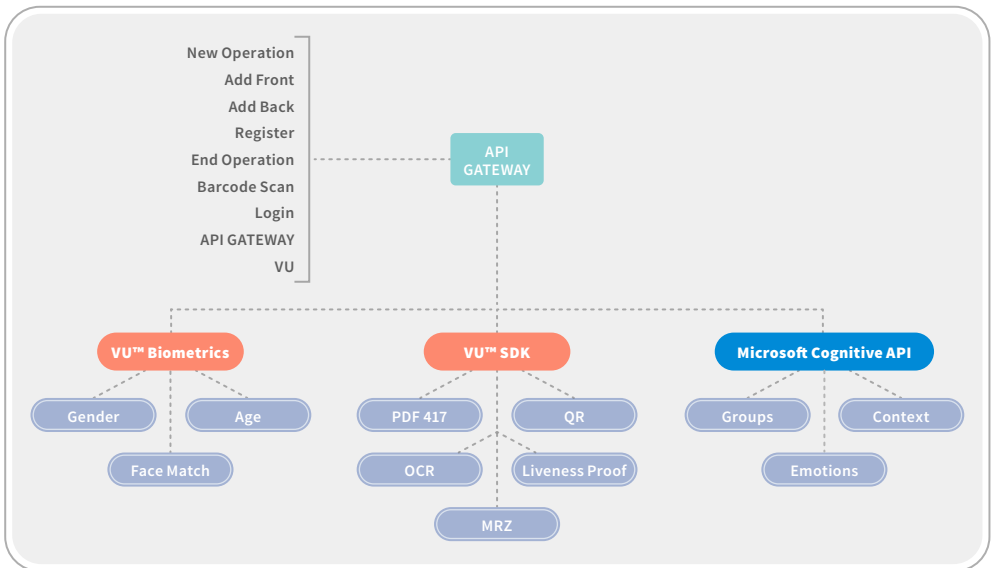### Datasheet

VU

What is it?

It is a platform that allows to authenticate the identity of people remotely thanks to the reading of an identity document and a selfie. This way, it manages the life cycle of citizens during the digital transformation process.

Features:

• It can be used on any device that has a camera enabled.

• It is customizable and modular; the client can select which functionalities are incorporated in each stage of the process.

• It is a complete, scalable software solution that can be easily integrated into the customer's existing system.

• The functionalities can be incorporated into existing applications without the need to create a new one.

Logic Diagram of Operation

New Operation
Add Front
Add Back
Register
End Operation
Barcode Scan
Login
API GATEWAY
VU

API GATEWAY

VU™ Biometrics
- Gender
- Age
- Face Match

VU™ SDK
- PDF 417
- QR
- OCR
- Liveness Proof
- MRZ

Microsoft Cognitive API
- Groups
- Context
- Emotions

Integration with Governmental Organizations

> ⚠️ **It allows the management of the identity of citizens**
> Secure Onboarding Process has integration methods with government agencies that allow the validation of aspects of the identity of citizens, proven in different countries.

Focus on User Experience

User experience is important in this type of solutions since it affects the business, and security must be provided accordingly. Therefore, VU™ products are designed and tested with users frequently, understanding and measuring the experience in order to maximize it.

User Interface Options

The solution offers different options to integrate with applications, web portals and chatbots.

- Mobile SDK
- Web SOP
- Message SOP
- API

Secure Onboarding Process SDK

VU offers the possibility to integrate this functionality into existing applications. In order to enable this, the provided Secure Onboarding Process SDK includes the necessary methods for its operation:

- Registration
- Authentication
- Extraction of data from documents by OCR (ID, credit card)

- Document barcode reading

- Capture the front of the document

- Capture the back of the document

- Capture of selfie

- Validation of selfie with proof of life

- Obtaining the geolocation of the device

To improve the deployment experience, a set of functions and a set of sample screens are provided so that the client has the freedom to generate the desired user experience. This allows to maintain the necessary conditions to preserve the safety and integrity of the product, as well as facilitate the transfer to the actual deployment scenario.

The SDK can be integrated into:

	Technology	Deliverable
Android Java	**Java**	**SDK + Sample project**
iOS	**Swift**	**SDK + Sample project**
Web	**Javascript**	**SDK + Sample project**
Hybrid Cordova, Ionic, React Native and Flutter	**Javascript, DART y TypeScript** They make use of Native SDKs (Swift and Java)	**SDK + Sample project**

API Integration

> **Done through REST methods always using a secure SSL channel (port 443).**

The infrastructure is designed to be integrated with any type of platform, regardless of the used language, through web services (POST/ GET) published by Secure Onboarding Process.

The application is composed of different methods, identified with functions destined to the administrative management for end users. Communication between the presentation layers and the product server is done through SSL connections over TCP port 443.

The available methods allow:

• Registration

• Authentication

• Extraction of data from documents by OCR (ID, credit card)

• Data extraction from documents by reading the barcode and MRZ code.

Image handling recommendations

• Image format: **JPG**

• Minimum image size: **600x720px**

• Minimum image resolution: **2 to 5 megapixeles**

Software requirements and compatibility

Operating system	Database	App Server	Java	Device Compatibility (SDK)
Centos/Redhat 7.9 (*)	PostgreSQL 9 or higher (*)	Tomcat 9.31 or higher (*)	1.8	iOS 11 or higher
Ubuntu LTS (*)	MS SQL 2019 or higher	Jboss 7.11 or higher		Android 5 or higher
Windows Server 2019				

*Recomendado

Hardware sizing*

Users quantity	Database Storage
1 - 100.000	65 GB
100.000 - 200.000	130 GB
200.000 - 300.000	200 GB
300.000 - 400.000	260 GB
400.000 - 500.000	325 GB
500.000 - or more	CONSULT

TPS	CORES	RAM	System Storage
8	2	4	60 GB
16	4	8	80 GB
32	8	16	100 GB
64	16	32	120 GB
128	32	64	140 GB

* Dimensioning considers a set of pre-configured rules. The calculations are estimated according to usual instances of the product. For high availability configurations, it is suggested to use instances with the same characteristics as those presented.

Featured use cases

- Remote and secure registration of bank accounts and issuance of credit cards.
- Check-in at hotels and airlines.
- Prevention of enrollment with falsified identity documents.
- Validation of nominated voting and decision-making processes.

Other VU™ Products that enhance Secure Onboarding Process

Our solutions are integrated to offer a 360 experience for both users and organizations. Each solution contributes a fundamental aspect to the security strategy.

- VU™ Face Recogn
- VU™ Voice Recogn
- VU™ Sign
- VU™ Application Server
- VU™ Fraud Analysis

> If you need more information or want to schedule a demo of this solution, please write to us at: **corporate@vusecurity.com**