

mojaloop

Sybrin Update

PI 10 – April 2020

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mojaloop

Company Overview - Sybrin

- A customer-centric software company focused on the development and implementation of complex applications using our own Rapid Application Development Platform – Sybrin Nitro & Accelerators in Banking and AI
- Sybrin has a rich history in the financial services industry with solutions deployed specifically in domains such as payments, KYC, AML, information processing and process automation
- Unlike similar package software products, our product provides a full stack rapid application development framework from front to back, focusing on the power developer and enforces the best practice for building, managing, and deploying enterprise apps

1991

Sybrin was established in 1991. We have more than two decades worth of experience in the provision of bespoke solutions in the payment and information management industries.

600

We have sold more than 600 systems across Africa, Europe, and the Middle East.

250+

Sybrin has over 250 employees, and we are steadily growing our team with staff who are dedicated, resourceful, and passionate about their work.

20

Our solutions are currently deployed in 20 countries worldwide and we are actively expanding into new territories.

30%

Sybrin has experienced a consistent growth rate of over 30% year-on-year. We are expanding rapidly to best serve our growing customer base in and around Africa.

EOH

As an EOH company, we benefit from being part of one of the largest, JSE-listed, information technology providers in South Africa with over 15 000 staff.

Company Overview - Sybrin

- A customer-centric software company focused on the development and implementation of complex applications using our own Rapid Application Development Platform – Sybrin Nitro & Accelerators in Banking and AI

- **Nearly 100 Banking Brands as customers.
As well as a few Central Banks and Clearing Houses.**

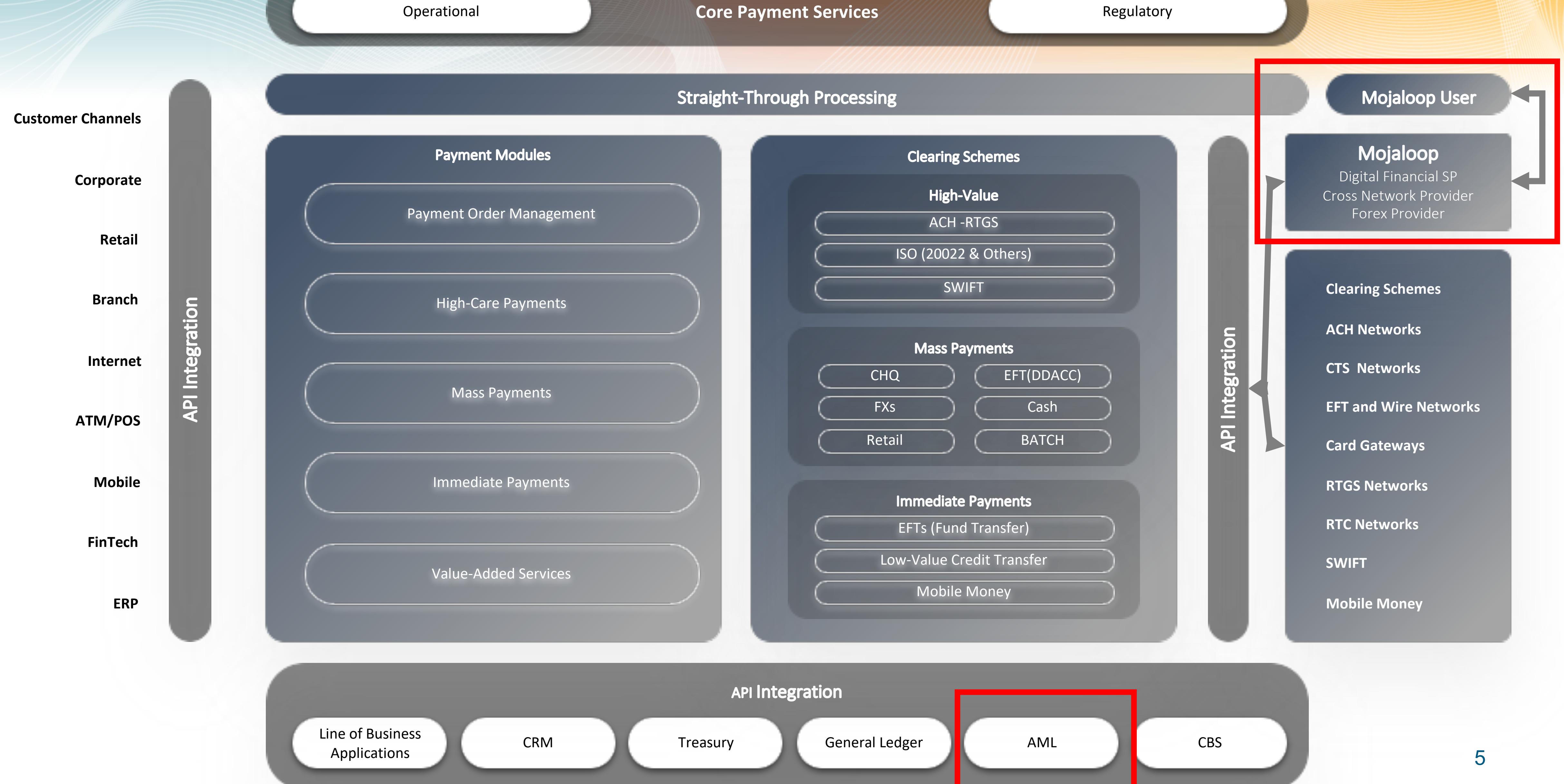


Sybrin plans to leverage Mojaloop

- With our clearing house customers
 - Additional real time switch option
 - With cross border payments
- Providing integration components and connectivity to other payment networks
 - At the clearing house and
 - FSP
- Providing switching to our FSP customers
- Providing Fraud Risk Management Solutions for the Mojaloop ecosystem – as a service, SaaS, or on prem

Specifically with the Sybrin Payments Hub

Management Cockpit

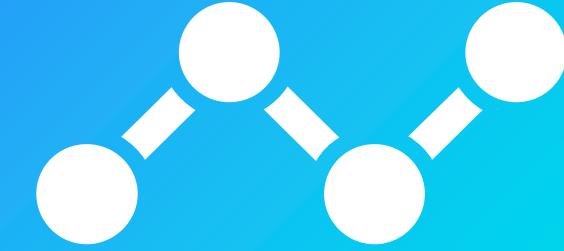


Use w/ Our Fraud Risk Management (FRM) Tools



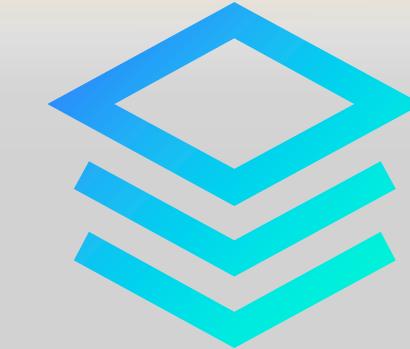
Case Management

- Process Control
- Investigation
- Audit



Acceleration

- Machine Learning / AI
- Classification
- Automatic Data Extraction



Data Management

- Consolidation
- Filtering / Lists
- Governance



Frameworks

- Rules
- Processes
- Models



Analytics

- Real-time
- Predictive
- Alerts



Reporting

- Transacting
- Messages
- Audit

FRM Lookups, Checks & Validations

White Label Channel Apps

Remote Biometric On-Boarding Apps



Mobile



Web



Chat

Operational Portal



KYC/AML Operational Portal

ID & V / KYC



Consumer ID & V



Business ID & V

Screening



Sanction & Watch Lists



PEP



Adverse Media



Investigations



Monitoring

EDD



Source of Wealth



PEP & Status Link



Adverse Media



Investigations



Monitoring

Mngt Cockpit



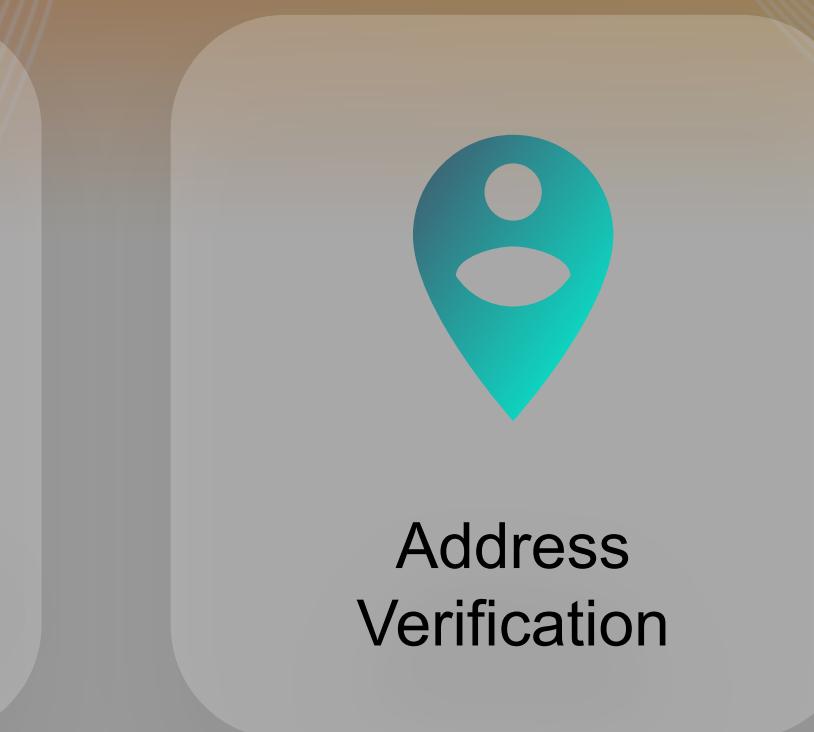
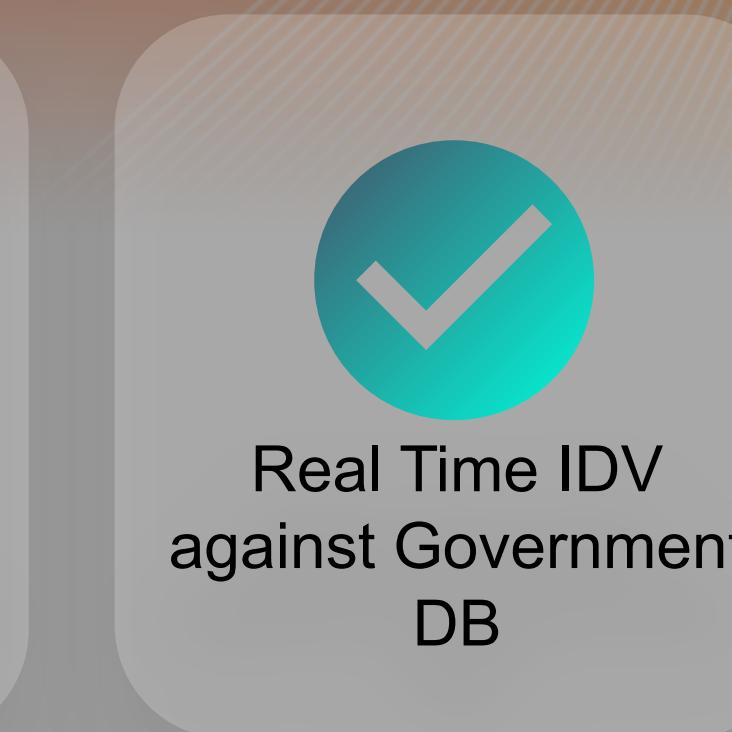
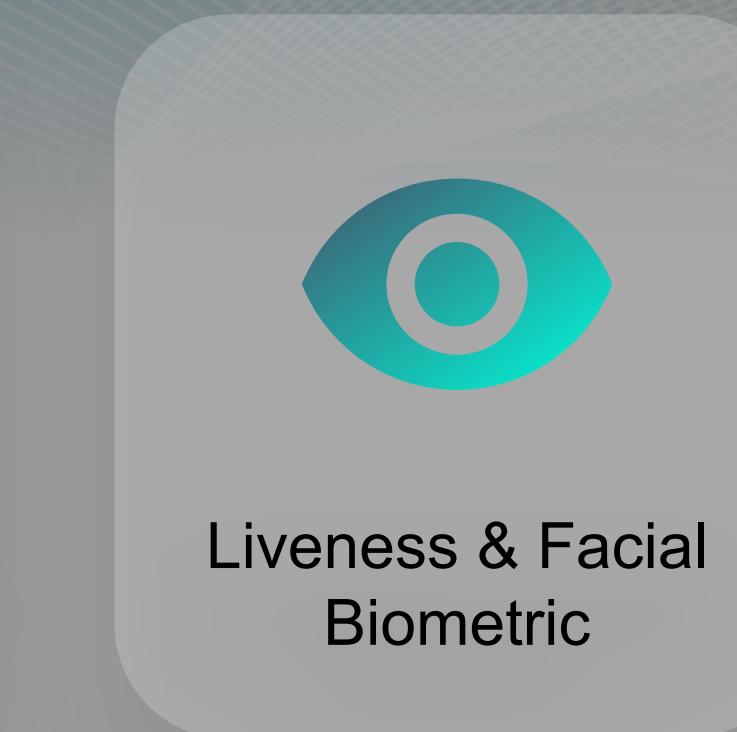
Regulatory View



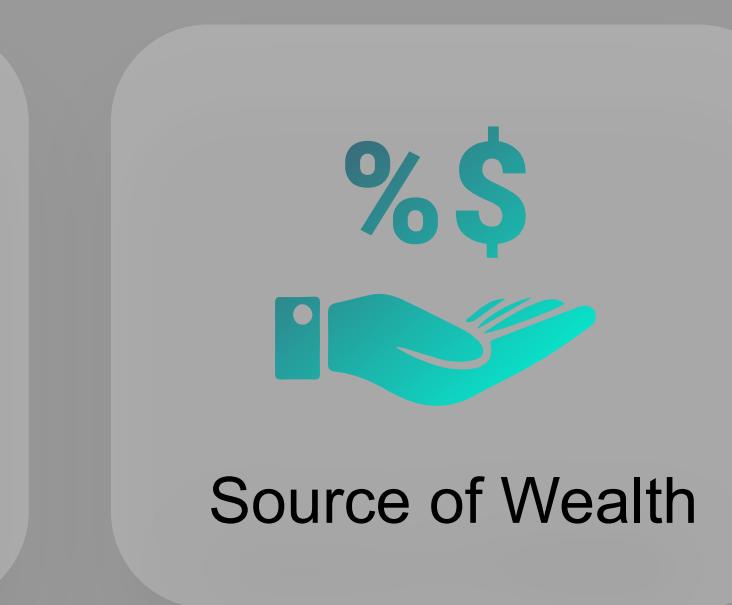
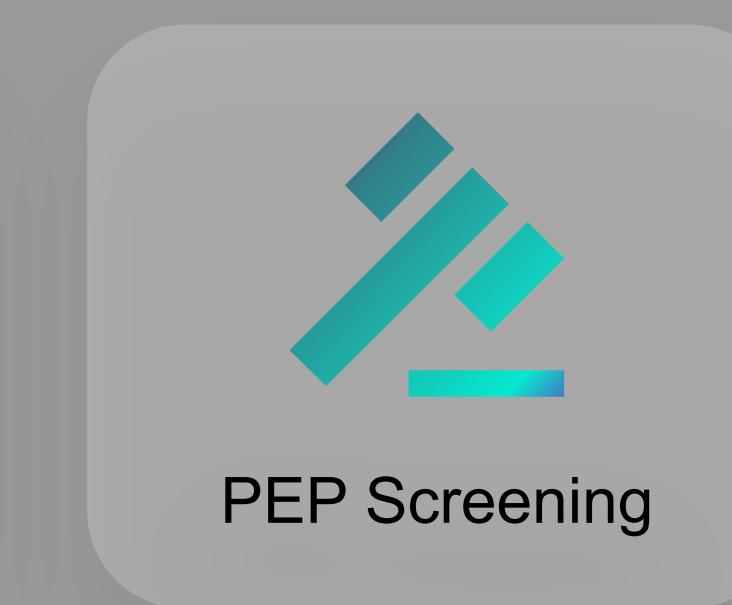
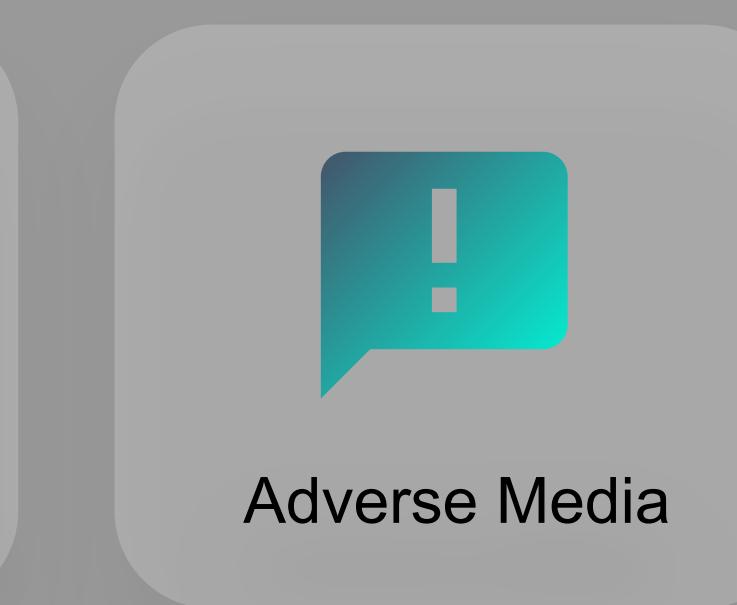
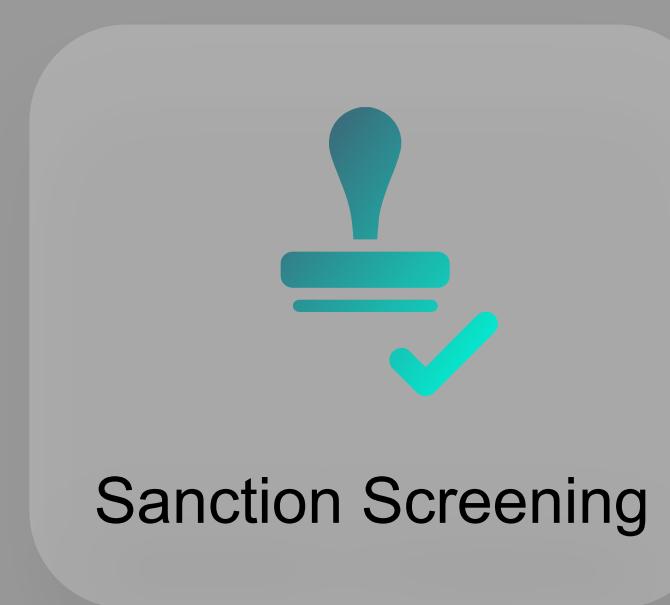
Operational View

FRM Lookups, Checks & Validations

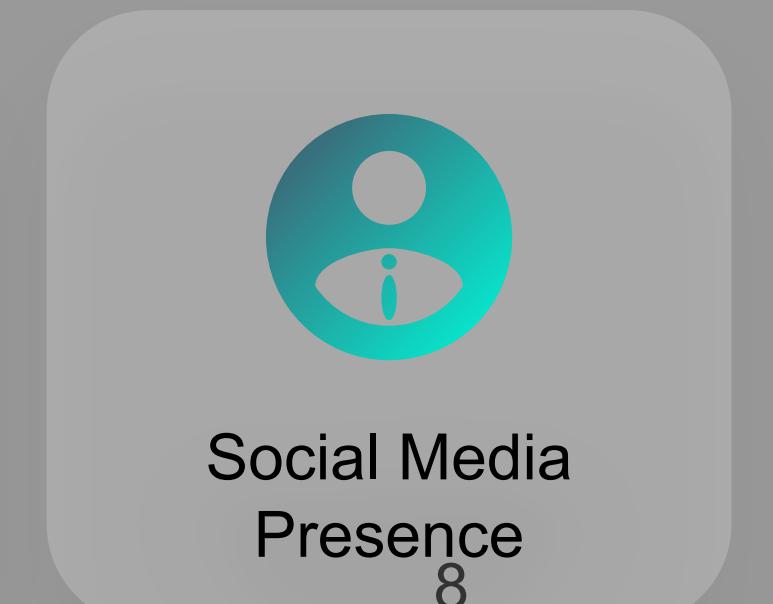
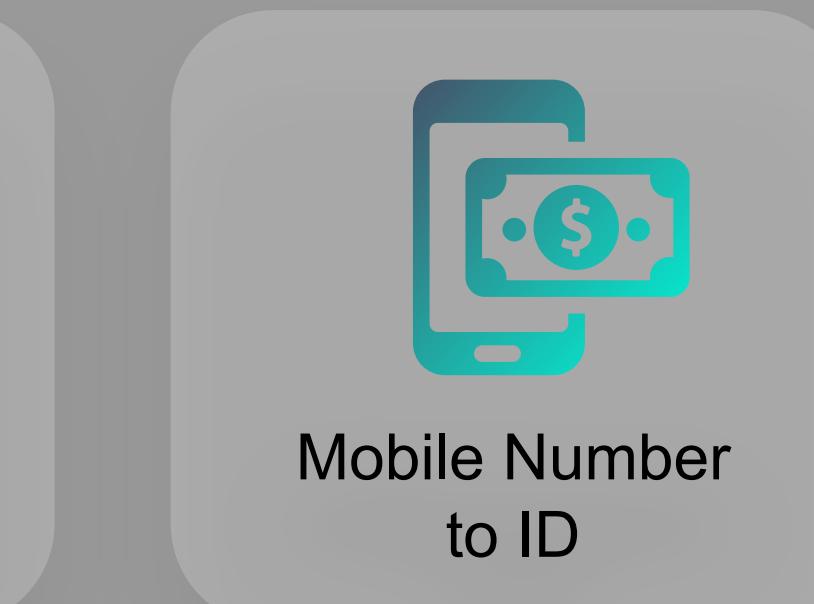
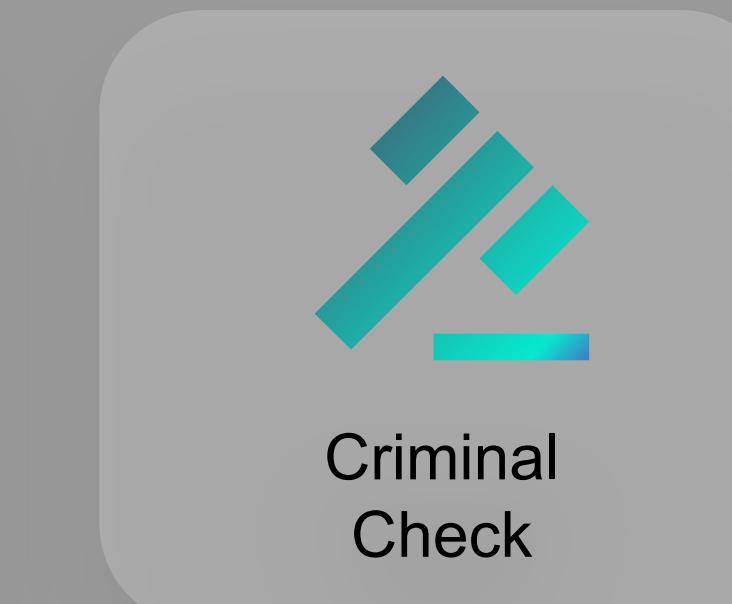
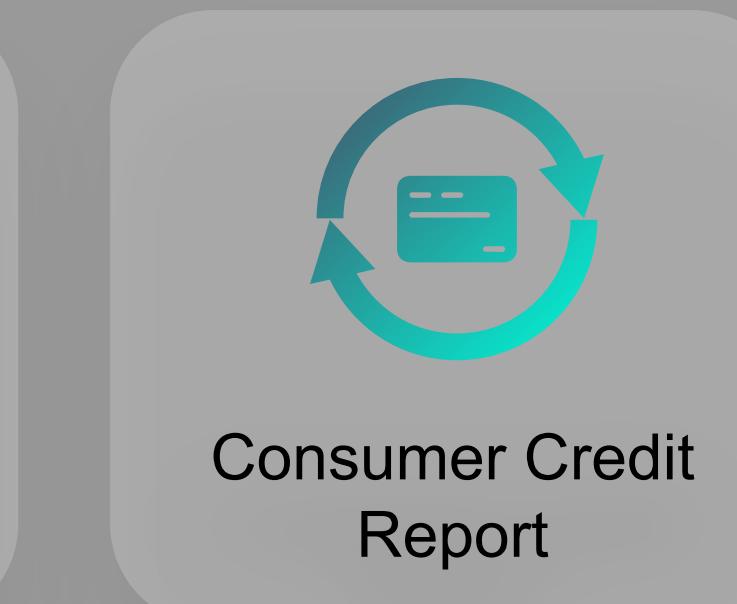
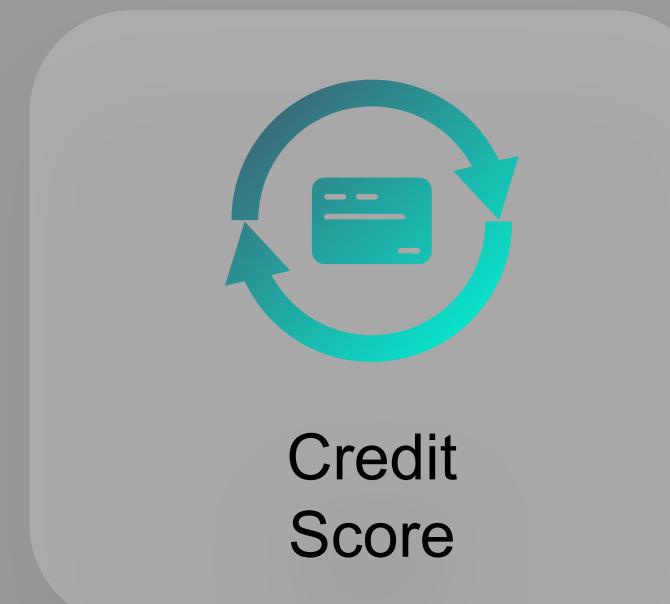
Remote Biometric On-Boarding



Sanction Screening



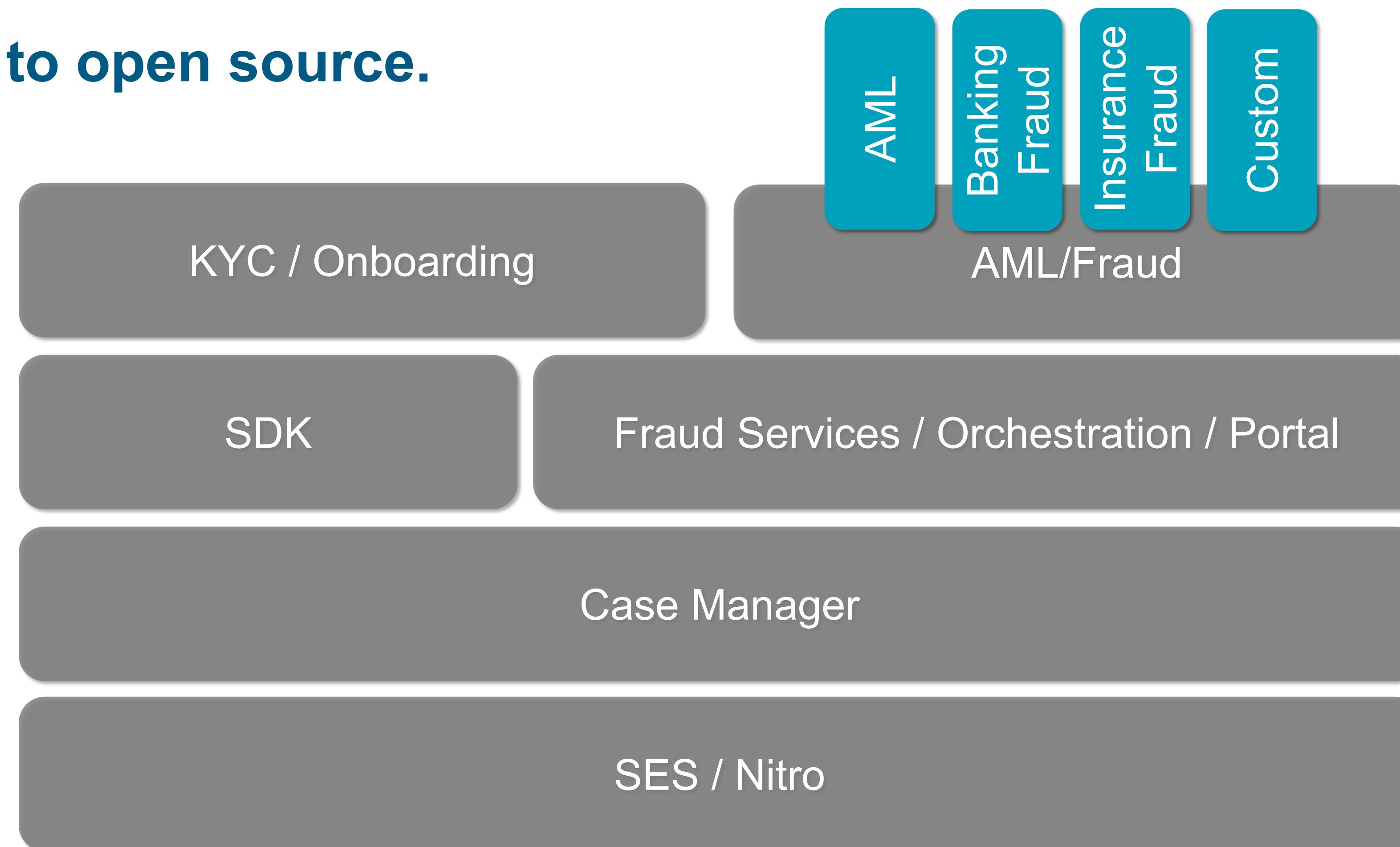
Other Checks



Fraud Risk Management (FRM) Tools

Comprehensive complimentary and integrated stack.

Hard to open source.



Simplified Integration Configuration

Sybrin Profile

http://ProfileApp.Sybrin.com

Sybrin Profiles Development 1124 AM

Search ...

Home APIs Lists Data Base

Providers

Activated	Provider	Activated By	Datetime Activated	Last Used
<input checked="" type="checkbox"/>	Sybrin	KYC Manager 1	2020-02-01	2020-02-06 16:10:00
<input checked="" type="checkbox"/>	PBVerify	KYC Manager 1	2020-02-01	2020-02-06 16:10:00
<input type="checkbox"/>	2Identity	-	2020-02-01	2020-02-06 16:10:00
<input type="checkbox"/>	TransUnion	-	2020-02-01	2020-02-06 16:10:00
<input type="checkbox"/>	XDS	-	2020-02-01	2020-02-06 16:10:00

Provider Details

URL: https://www.veriid.com/PBVerify/webservice/
Port: 443
 Use sybrin's credential
API Key: XXXX-XXXX-XXXX-XXXX-XXXX
Username: *****
Password: *****

Define APIs, Data Sources, ETL, Lists, Automations, Statistical and Machine Learning Models

API Calls

Activated	API Call	Calls made this Month
<input checked="" type="checkbox"/>	Home Affairs ID verification	543
<input checked="" type="checkbox"/>	Express Consumer Score	338
<input checked="" type="checkbox"/>	Consumer Report	256
<input type="checkbox"/>	Address ID	0
<input type="checkbox"/>	Bank AVS	0
<input type="checkbox"/>	Drivers License Validation	0
<input type="checkbox"/>	Consumer Trace	0
<input type="checkbox"/>	Contact ID	0
<input type="checkbox"/>	Company Credit Check	0
<input type="checkbox"/>	CIPC - Company and Director	0
<input type="checkbox"/>	Bank Code	0
<input type="checkbox"/>	Digital FICA KYC	0

Preview of API response

Download

Home Affairs ID verification

```
[{"Status": "Success", "idProfile": {"traceId": "10286383", "idNumber": "0000000000000000", "firstNames": "JUST", "surName": "GOOFY", "dob": "1983-07-06", "age": null, "gender": "Male", "citizenship": "South African", "status": "1", "dateOfIssue": null, "deathDate": null, "deathPlace": null}}]
```

Rules, Microflows and Workflows

Sybrin Profile

http://ProfileApp.Sybrin.com

Sybrin Profiles Development 11:24 AM

Search ...

Home Gilchrist Custom Set 221 Rule Set

Gilchrist Rule Set Versions

Search ... All Pending Active Inactive Add Filter Remove Edit Add

Version	Status	Active	Created by	Approval	Date Time
3.0	Pending	Inactive	KYC Agent 1	KYC Manager 1	2019-11-18 14:00 pm
2.0	Rejected	Inactive	KYC Agent 2	KYC Manager 1	2019-11-18 15:00 pm
1.0	Approved	Active	KYC Agent 1	KYC Manager 2	2019-11-19 08:00 am

Rule Set Information

Name: Gilchrist 101

Description: Latest rule set adjustments to lower requirements and ensure a higher pass rate

Additional Information

Add Comment 1

KYC Agent 2020-01-14 10:00:00 Please check and approve updated ruleset.

KYC Manager 2020-01-14 10:05:00 Declined. Lower all value requirements for higher pass rate

Reply

Create edit and version rules, microflows, workflows and orchestrations.

Rules Configuration

Sybrin Profile

http://ProfileApp.Sybrin.com

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Cancel Bulk Upload Submit Save Reject Approve

Simulation Run Simulation Close Simulation

Inputs:

- vID Profile - ID_Profile_2ss
 - Citizen
 - South African
 - Age
 - 34
 - Gender
 - Male
- Credit Score - CScore987

Outputs:

- ID Profile - ID_Profile_2ss
 - Text Result
 - PASS
 - Numeric Result
 - 8
- Credit Score - CScore987
- Risk Model (Final Rules) - RM_334rd

Model

Gilchrist
101BasicRule

Define rules as DRD diagrams.

```
graph TD; A((PBV ID Profile API Result)) --> B[ID Profile Rules]; C((PBV CreditScore API Result)) --> D[Credit Score Rules]; B --> E[Risk Model (Final Rules)]; D --> E;
```

A green gear icon is located in the bottom right corner.

Rules and Microflows

Sybrin Profile

http://ProfileApp.Sybrin.com

Sybrin Profiles Development 1124 AM

Cancel Bulk Upload Submit Save Reject Approve

Simulation Run Simulation Close Simulation

Inputs:

- vID Profile - ID_Profile_2ss
Citizen
- Credit Score - CScore987

Outputs:

- ID Profile - ID_Profile_2ss
 - Text Result
Medium Risk
 - Numeric Result
7
- Credit Score - CScore987
- Risk Model (Final Rules) - RM_334rd

Define table-based rules, switch between DRD and table views.

Model

Data Source Save View DRD

ID Profile Rules							
IDProfileRules		Input +		Output +			
U	Age	Gender	Citizenship	Status	Text Result	Weighted Result	Annotation
1	<= 17	Male	'South African'	Fail	3		
2	<= 17	Female	'South African'	Fail	3		
3	[18..25]	Male	'South African'	Medium Risk	5		
4	[18..25]	Female	'South African'	Medium Risk	5		
5	[26..35]	Male	'South African'	Medium Risk	7		
6	[26..35]	Female	'South African'	Medium Risk	7		
7	>=36	Male	'South African'	Low Risk	9		

Audit / Review

Sybrin Profile

http://ProfileApp.Sybrin.com

Sybrin Profiles Development 11:24 AM

Back

Selfie Onboarding by Sybrin

First Name	Salvatore	Type	Mobile	Status	Success
Surname	Errera	Message	9	Duration	4 s

ID Profile Verification by PBVerify

Type	API	Result	Successful
Duration	5 s	Message	9

Consumer Credit Report by PBVerify

Type	API	Result	Successful
Duration	8s	Message	9

Result Summary

650 / 710

Risk Rating: Low Risk

Identity Profile DMN Results

Output	Value
Text Result	Pass
Weighted Result	8

Review details of transaction, success, failures, rule results, alerts. Full

API Result

Status: Success

idProfile:

traceId: 10286383

idNumber: [REDACTED]

firstNames: Salvatore

surName: Errera

dob: 1982-05-05

age: 38

gender: Male

citizenship: South African

status: 1

dateOfIssue: [REDACTED]

deathDate:

deathPlace:

TraceID: 10286383

ID number: [REDACTED]

First Name: Salvatore

Surname: Errera

Date of Birth: [REDACTED]

Age: 34

Gender: Male

Citizenship: South African

Status: 1

Date of Issue: 18-09-2017

Document Viewer

REPUBLIC OF SOUTH AFRICA NATIONAL IDENTITY CARD

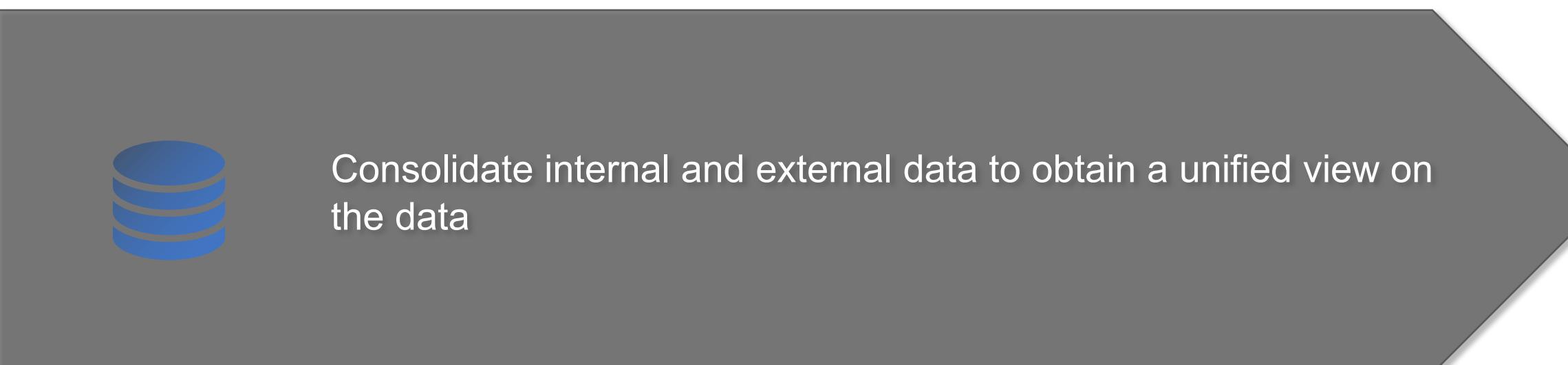
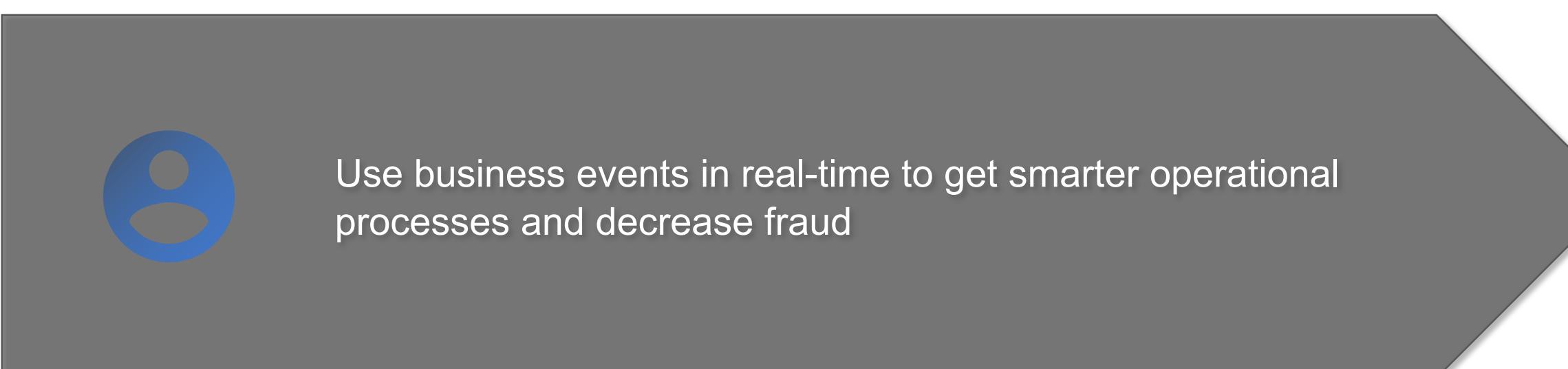
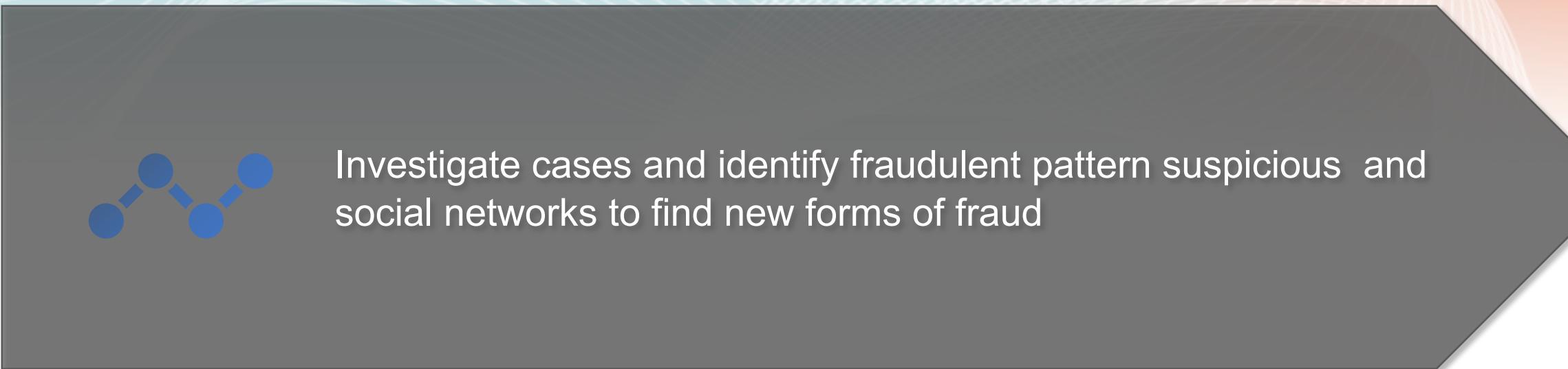
Surname: ERRERA Names: SALVATORE Sex: M

Signature: [REDACTED]

Create Cases for Investigation

Gilchrist 101 Version 1.0

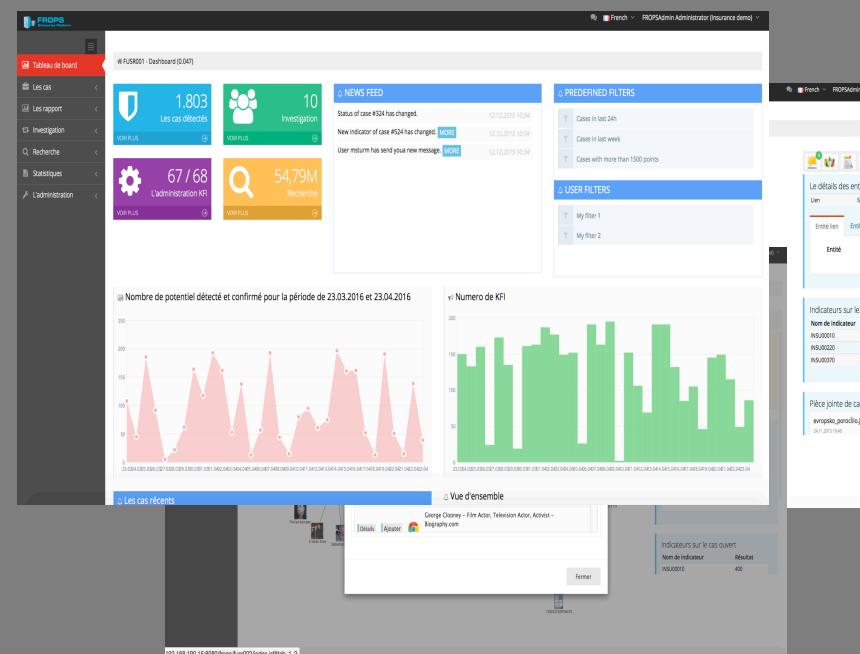
Investigator Suite and Transactional Monitoring



An Interactive Tool for the End-User

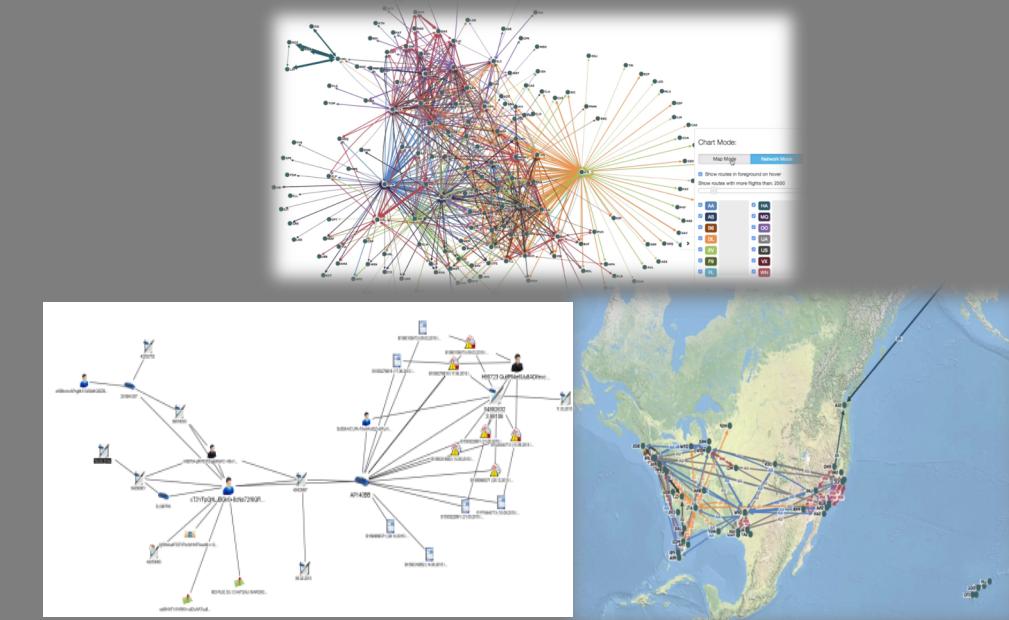
A User-Oriented Solution, Simple to Use, Dynamic and Efficient.

Dashboard



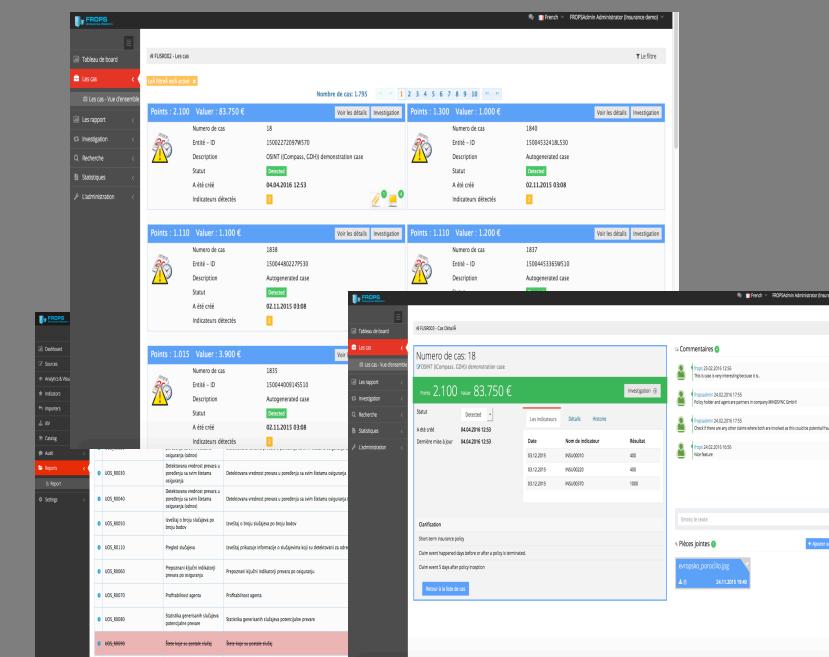
- The dashboard allows the end user to see in interactive way and clearly all cases under investigations.
- It shows also the tasks to handle and the advancement of cases and the recent updates.

Visualizer



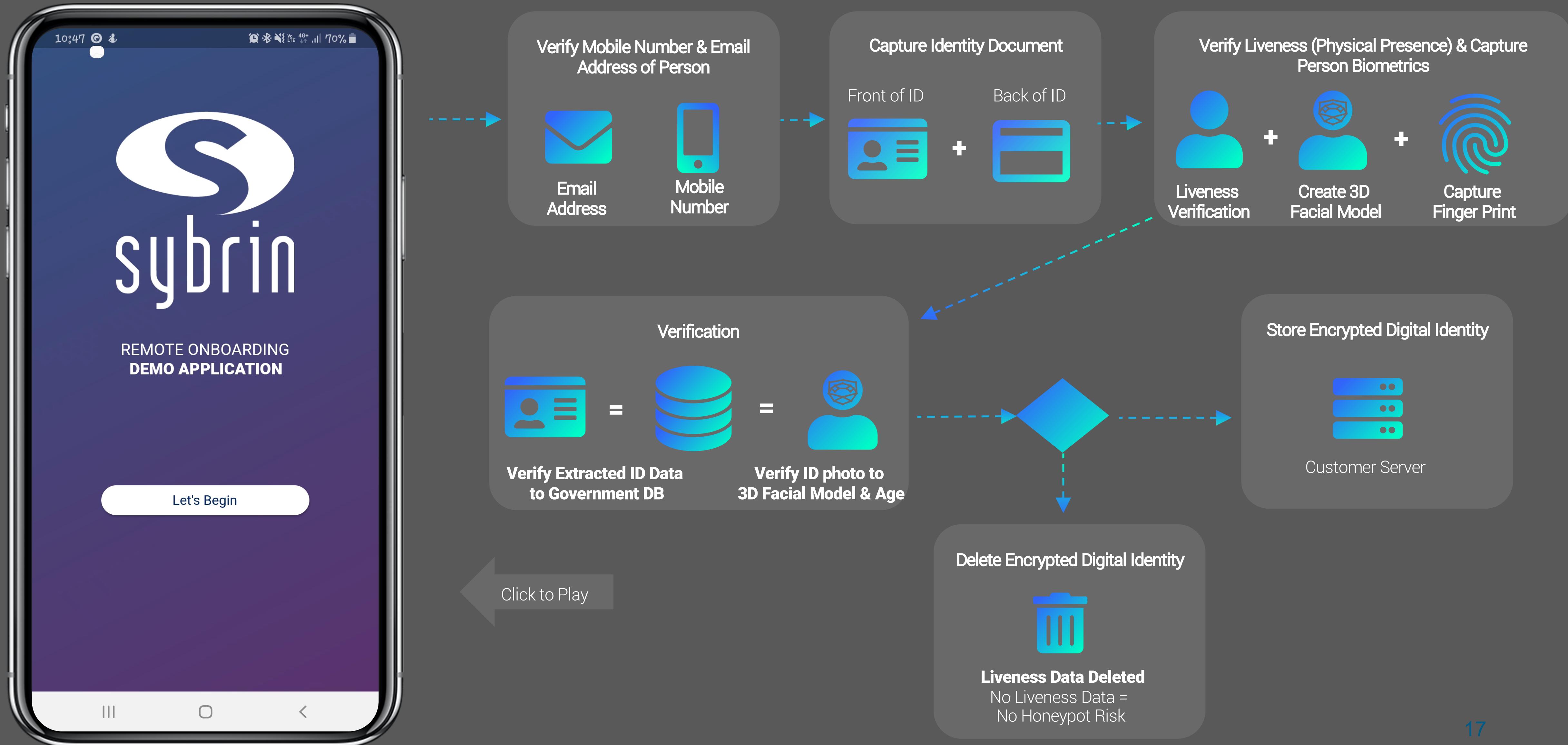
visualizer allows the client to perform effective and quick analysis for both the links and relations between the entities.

Case Management and Reporting



- Document case management enables efficient management of workflow:
 - alerts and cases,
 - combining multiple alerts in one case,
 - showing scores and reasons,
 - order it by priority.

For example mobile based onboarding - KYC



Progress from the last meeting

- Still mostly lurking and learning
- Wanting to assist with performance
 - Azure implementation is up and running
 - Bare Metal Servers up and running
 - Had some issues with helm etc – thanks to everyone for the assist
- Cross Network Work Stream
- Discussing the Payment versus Payment options with Michael
- Actively participating in the FRM Work Stream
 - Researching if we can open source portions of our rules engine, doubtful on case management
 - We already do centralized KYC and SaaS based solutions

Plans for the next PI

- Become more active
- Work on integrations with
 - our payment hub
 - FRM tools
- Work on Payment versus Payment
- Conclude decision on open source rules engine and case management
 - Begin prototyping if there is a “go” decision