IAMX
OWN YOUR IDENTITY

One Stop Compliance

IAMX x YOUR BRAND

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Partnership

Our partners: KYC Spider AG & MME AG

KYC SPIDER AG is a leading provider of digital Know Your Customer (KYC) solutions, servicing banks, financial institutions, and companies worldwide. Founded in 2003 as a Join Venture between the well know legal and compliance advisor **MME AG** and Eurospider, a spin-off company of the Swiss Federal Institute of Technology (ETH) Zurich, the company's mission is to help organizations comply with rigorous KYC requirements while reducing the burden of manual processes.

KYC SPIDER AG focuses on optimizing compliance processes, and their software solutions are designed to facilitate automated KYC checks, onboarding processes, and timely risk management. Their software is designed to help financial institutions and companies save time and money by reducing the amount of manual labor required for KYC processes.

The company's flagship product, KYC Spider Toolbox, is a Software as a Service KYC solution that automates the entire KYC process. It simplifies the process and eliminates manual data entry, eliminating the need for repetitive activities and paperwork.

KYC SPIDER also provides a single platform for KYC data, making it easy to access and share. KYC SPIDER is a secure and reliable solution that is highly customizable and can be integrated into existing systems. It also features an intuitive interface, allowing users to easily navigate the platform and quickly access information. The company also offers a range of other services, including KYC training, KYC consultancy, and KYC support. Through their services, KYC SPIDER AG helps financial institutions and companies comply with local KYC regulations and meet their KYC requirements. Their team is comprised of experienced professionals who are dedicated to helping businesses meet their KYC requirements, and they pride themselves on providing excellent customer service.

The company is constantly evolving and developing new solutions to help their customers meet their KYC compliance requirements. They are committed to staying ahead of the curve, and they are continually working to improve their solutions and enhance the user experience. KYC Spider recently launched a Web3 solution together with their partner IAMX, where KYC Spider is acting as a compliance oracle, issuing and storing identification and KYC data.

Another important compliance advisor is the **Swiss law firm MME AG**. MME is a pioneer in providing legal and tax advice to digital and blockchain-based business models. In order to deliver its services at highest quality, KYC Spider is supported for regulatory and legal topics by its shareholder MME AG, a pioneer providing legal, compliance and tax advise to digital and blockchain based business models.

KYC Spider AG facts: KYC Spider AG monitors 204 countries and 1017 PEP, sanctions and crime lists are currently being monitored and 27.4 million KYC records have been created to date.

KYC Spider

MME AG

About IAMX

IAMX - Own your identity

11/2021
Founding IAMX AG, Zug, Switzerland
Founder: Tim Heidfeld and Tim Brückmann

12/2021
Intellectual Property

03/2022
DID method did:iamx W3C accredited as blockchain agnostic open standard

03/2022
Proof of technology with telecommunication provider end2end

07/2022
Products live KYC, KYB, vNFT, vPOOL

11/2022
Revenues first 12 months X Mio. USD, > 20%+ margin and FCF

IAMX Benefits

Customer
Own your identity. Buy everything in 1Click.
Save money, make money. Convenience.

Financial Institutions
Fully compliant KYC, KYB, AML, PEP worldwide. White Label. Reusable.

E-Government
Legally effective execution of all declarations between citizen and state.

E-Commerce
Increase ROI online marketing profitability by 2,5.

RegTech / Telco Partners
3 USD net result contribution lifetime.

Technology
Portable, decentral, interoperable, open, user-centric, GDPR-conform, legally compliant, privacy ensured (IP). Any DID-method supported.

Team

26 member with approximately 25 years of operational and strategic experience in E-Commerce, Telecommunications, Finance, IT-Development

Website | Pitch Deck | White Paper | Medium | Linktree

About IAMX

One-Stop-Compliance
IAMX is a digital identity infrastructure and authentication protocol.

Leading Team of Experts Brings Decades of Experience to the Table
Our team consists of 26 members with an average of 25 years of operational and strategic experience in e-commerce, telecommunications, start-up, business development, sale of companies, IT development, finance, controlling, corporate finance, legal, marketing, online marketing, tracking, and analytics. For more details on the team, please refer to page 42 of our Pitch Deck.

Portable, Decentralized Technology Ensuring Privacy and Legal Compliance
Our technology is portable, decentralized, interoperable, open, user-centric, GDPR-conformant, legally compliant, and privacy-ensured. The solution is designed to protect the human rights of all users. We support any DID-method and are W3C-accredited with our own DID-method, did:iamx. Our intellectual property includes authentication of persons, organizations, entities, properties, attributes, and credentials via a technical procedure for providing zero-knowledge proof between entities, as well as GDPR- and fully legally-compliant verifiable credentials. In addition, we have successfully completed a proof of technology with a telecommunication provider for end2end authentication.

Regulatory compliant KYC, KYB, AML onboarding process worldwide
Together with KYC SPIDER, IAMX provides a fully regulatory compliant KYC, KYB, and AML onboarding process. Our KYC and KYB processes are legally sound and ensure regulatory compliance worldwide.
The major USPs of our product are: customizability, white label, interoperable API and data process integration, upgrades and updates per regulatory module, physical and digital access delegation of KYC files for reusability in financial sector, 10 years storage, access to Compliance front-end.

IAMX wins 2022 Identity Project on Cardano:
Fully Compliant Digital Identity Platform
At IAMX AG, we are dedicated to providing a fully compliant, secure, and convenient digital identity platform that can be used by customers, financial institutions, e-government agencies and e-commerce platforms. With our blockchain-agnostic technology, we are proud to be the winner of the Identity Project on Cardano 2022. For more information, please refer to our deck, whitepaper, and medium page.

Appreciations

1. W3C-accredited blockchain-agnostic, open standard DID-method (decentralized identity) did:iamx
2. Intellectual Property:
   - Authentication of persons, organizations, things, properties, attributes and credentials via a technical procedure for providing zero-knowledge proof between entities
   - GDPR- and fully legally conform verifiable credentials
3. Identity Winner project on Cardano 2022: Ballot Speaker Winner: Identity Solutions [IAMX AG]

IAMX & KYC SPIDER vs Competition & Test Environment

Worldwide compliance solution based on modular building block architecture

We regard compliance as a product.

For this reason, the customer can choose any partner / data source for each process step and module.

KYC Spider aggregates this data, ensures the technical integration in its own frontend and with you as the customer in all your systems and interfaces.

The result is a modular, freely combinable solution modules and possible integration of all providers for Compliance, KYC, KYB, AML, Custom based on the customer's request.

Test Environment

I. User
   Login: www.kyc.ch
   User: **Please contact tb@iamx.id to receive a login**
   Password: xxx
   How to use: https://helpcenter.kyc.ch/de

II. API
   Mandant: **YOUR BRAND**
   User: xxx
   Password: xxx

We at IAMX make the result reusable and offer a GDPR compliant solution for this.

https://app.iamx.id

Advantages with IAMX one-stop compliance

1. Reusable KYC / KYB Result
2. GDPR conformity
3. Physical access delegation of KYC files
4. Digital access delegation of KYC files
5. Update per module (ID, address, AML, any)
6. Upgrade per module (regulatory compliance)
7. 10 years storage KYC / KYB records in Swiss banking grade data center
8. Broadest and comprehensive offering
9. Flexibility to add additional eco-system partners
10. 20 years track record unique data base for regulatory compliance
11. Generation of audit-proof compliance forms to fulfill regulatory compliance
12. API integration and SDK for client user journeys available
13. Verification, Authentication with biometrical fulfillment

GDPR conformity

Intellectual Property

”Authentication of persons, organizations, things, properties, attributes and credentials via a technical procedure for providing zero-knowledge proof between entities.”

Zero-knowledge proof

Zero-knowledge proof by design.

How

Pre-authenticated verifiable credential set containers, that are trusted by the verifier, owned and controlled by the holder, portable, issued KYC partner, RegTech, terminal, other.

Processing

Low transaction costs and high speed processing due to low computational resources by design.

GDPR conformity

No storage of personal data. GDPR does not apply.

Absolute anonymization through the use of verifiable data containers.

It is not possible to assign the data to a known person.

Quantum proof encryption

Yes. Handshake based.

AML conformity

Yes, any level.

More Details

More details upon request: legal@iamx.id

Solution

One-stop-compliance solution for seamless regulatory compliance

Introducing IAMX AG's and KYC SPIDER AG's fully regulatory compliant KYC, KYB, AML onboarding process, a one-stop-compliance solution with seamless integration capabilities and white label features. Our solution utilizes IAMX AG's IP and KYC SPIDER AG's IP for optimal performance.

Global regulatory compliance made easier

This comprehensive solution is capable of providing regulatory compliance worldwide. With its scalable setup, high volumes from multiple regions could be processed centrally or decentrally. Any operating model for Compliance is fully supported.

Experience secure, and flexible KYC and KYB solutions with Our product, all reusable

One of the major USPs of our product is its reusability, as well as the 10-year storage of KYC and KYB records. Furthermore, customers can also opt for physical or digital access delegation of KYC files, as well as upgrades and updates per module.

Comprehensive and secure KYC, KYB, and AML onboarding process offers essential regulatory compliance solution

Overall, IAMX AG's fully regulatory compliant KYC, KYB, AML onboarding process is an essential solution for businesses in need of a comprehensive, streamlined, and secure compliance process.

Customize your product experience with wide range of fields for optimal results

Our product comes with a wide range of custom fields such as client type, client interest use CBAG services, asset flow client and CBAG, client experience crypto assets, investments in the last 12 months, trading volume currency p.a., and more.

Triangular agreement streamlines KYC/KYB processes

The triangular agreement ensures that our KYC and KYB processes are legally sound, and a subscription model or pay per module structure is available for easy finance-related transactions.

Unlimited custom features: Tailor your product to your specific needs

We also offer unlimited custom features, allowing customers to tailor the product according to their specific needs. Our team of experienced professionals is always available to provide assistance regarding any queries.

Highly automated processes and solution

With its highly automated approach, NEWM could focus on exception handling and final clients assessments rather than information research and manual processing.

Product sheet

Use case example: Launching a Stable Coin

Product description	Fully regulatory compliant KYC, KYB, AML onboarding process including all required custom fields such as client type, client interest use CBAG services, asset flow client and CBAG, client experience crypto assets, investments in the last 12 months, trading volume currency p.a. and more. Additional information: 20 years of track record by KYC SPIDER AG in this segment and 27 Mio. KYC records.
Modules	KYC, KYB, AML, Biometrics, Custom fields
Jurisdiction	Worldwide
Level	Regulatory Compliance
Benefits	One-Stop Compliance Seamless integration in website, app, software, frontend, backend White Label API Access KYC SPIDER AG Accounts for Compliance Team Partner
USP	Reusable KYC/KYB Result, 10 years storage KYC/KYB Records, Physical access delegation of KYC files, Digital access delegation of KYC files, Update per module (ID, address, AML, any), Upgrade per module (regulatory compliance)
Technology	IP KYC Spider AG, IP IAMX AG
Legal	Triangular agreement
Finance	Subscription model, Pay per module
Custom	Unlimited

Solution

Introducing the Global Identity Terminal: Secure Digital Identity Creation through Biometrics and Document Authentication

The Identity Terminal enables customers to obtain a digital identity via biometrics and authentication/conversion of documents with security features. The hardware modules that make up the terminal include a 65-inch portrait display with 700 Nits of luminosity, a 27-inch touch display, a scanner to authenticate passports and documents, as well as a biometric camera to capture facial features. There is also a payment terminal, printer, LAN, WLAN, LTE, and antimicrobial coating. The terminal is designed to be used and compliant worldwide.

Identity Terminal: Biometrics and Wallet Recovery Offers FBI, BSI and Passport Authentication Conformity

The Identity Terminal offers customers the ability to create a biometric identity and wallet recovery via biometrics, eliminating the need for seed recovery phrases. Fingerprint biometrics are compliant with the FBI CJIS Divison's Next Generation Identification System Image Quality Specifications (IQS) and Appendix F Specifications. The Fingerprints BSI Conformity is based on BSI Biometrics for Public Sector Applications (German Federal Office for Information Security) and features life detection for each finger as well as fingerprint segmentation. Passport Authentication Conformity is based on BSI Conformity Tests for Official Electronic ID Documents (German Federal Office for Information Security) and is able to authenticate passports from more than 180 countries. The Biometrics Conformity Sovereign Applications are based on BSI Conformity Tests.

Identity Terminal: Unlocking Financial Inclusion, Secure Identity and Sustainable Economic Growth

The primary benefits of the Identity Terminal include identity and authentication, financial inclusion, and the ability to enable sustainable economic growth.

The terminal is powered by IAMX technology and is designed to create a secure and reliable digital identity for customers, enabling them to access the financial services and resources they need.

This terminal is a powerful tool that can help create a more secure, efficient, and accessible global identity system and enable financial inclusion.

Product sheet

Biometrics Identity Terminal (1/2)

Product description	Identity Terminal to issue a customer owned, customer controlled digital identity via biometrics and authentication / conversion of documents with security features. Authentication-Level: European State [hardware and software are used for process of entry to Europe (border crossing) from a third country, audited BSI, Fingerprints Appendix F FBI].
Hardware Modules	1. Display: 65-inch portrait display top with 700Nits luminosity (Education, Information, Awareness, Benefits). 2. Touch display: 27-inch touch display [gateway onboarding]. 3. Scanner: Authentication Passport / Documents, Biometrics: Fingerprints still, fingerprints rolled, liveness check, matching of picture ID to facial biometric camera capture. 4. Biometric camera: Biometrics: Face. 5. Other: Payment terminal, printer, LAN, WLAN, LTE, 296cm, 242 kg, antimicrobial coating.
Jurisdiction	Worldwide
Level	Various compliance levels
Benefits	1. Identity and authentication 2. Enable financial inclusion 3. Enable sustainable economic growth

Continue on next slide

Product sheet

Biometrics Identity Terminal (2/2)

USP	1. Create biometric identity 2. Recovery Function: Wallet recovery via biometrics. No more seed recovery phrases necessary.
Technology	IAMX AG
Conformity	Fingerprints FBI conformity: Fingerprint flat, compliant with FBI CJIS Divison´s Next Generation Identification System Image Quality Specifications (IQS): Appendix F Specifications. Fingerprints BSI Conformity: Fingerprint conformity based on BSI Biometrics for Public Sector Applications (German Federal Office for Information Security). Life detection for each finger, fingerprint segmentation. Passport Authentication Conformity: Electronic passport authentication conformity based on BSI Conformity Tests for Official Electronic ID Documents (German Federal Office for Information Security). Authenticate passports from 180+ countries Biometrics Conformity Sovereign Applications: Conformity Specification for Technical Guideline Biometrics in Sovereign Applications based on BSI Conformity Tests.

IAMX
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White Paper Summary

The IAMX white paper is a comprehensive guide to the IAMX digital asset platform and its associated products. It outlines the platform's core features, its technical architecture, and its mission.

IAMX is a digital asset platform that enables users to securely and quickly store, manage, and transfer digital assets. It is designed to be highly secure and compliant with regulations, while also offering a user-friendly interface. The platform is built on a decentralized infrastructure and utilizes blockchain technology, allowing for fast and secure transactions.

The white paper explains that IAMX has three primary components: the IAMX wallet, the IAMX exchange, and the IAMX token. The wallet is an all-in-one digital asset management platform that allows users to securely store, manage, and transfer digital assets. The exchange allows users to easily buy and sell digital assets, while the IAMX token is the native token of the platform.

The paper also outlines IAMX's technical architecture. It is built on a decentralized network of nodes that are used to validate transactions and store data. In addition, the platform utilizes blockchain technology to provide a secure, immutable ledger.

IAMX also focuses on user experience, offering a user-friendly interface and a variety of features, such as support for multiple wallets, multiple currencies, and multiple payment methods. The platform also offers a range of features that make it easy to monitor and manage digital assets.

Finally, the white paper outlines IAMX's mission. The platform is designed to make digital asset management easy and accessible for everyone, regardless of their technical knowledge. It is also focused on providing a secure and compliant environment for digital asset management.

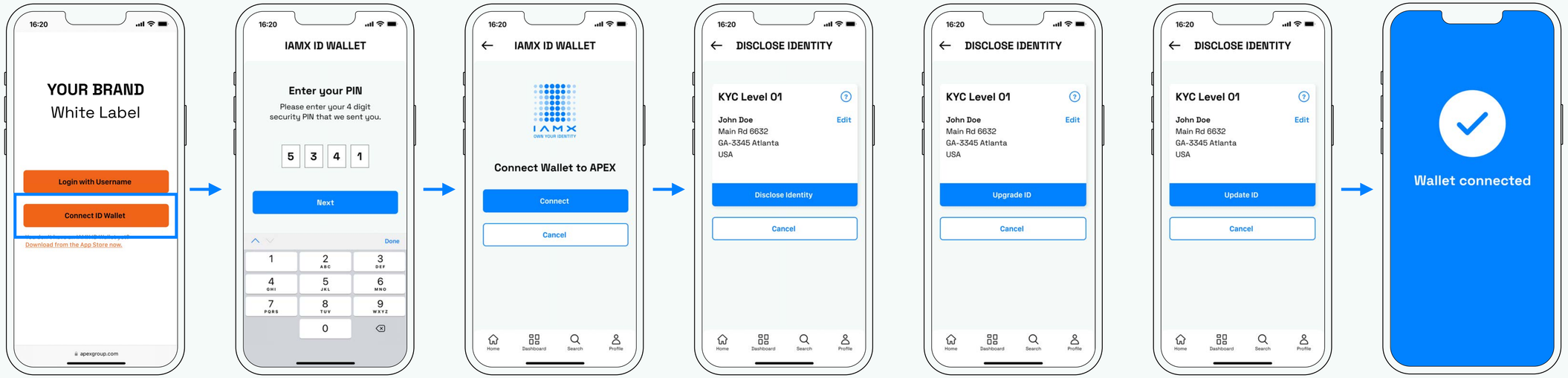
Overall, the IAMX white paper provides a comprehensive overview of the IAMX digital asset platform and its associated products. It outlines the platform's core features, its technical architecture, and its mission. By providing a user-friendly interface and a secure and compliant environment, IAMX aims to make digital asset management easy and accessible for everyone.

Read the full version → White Paper

Appendix

Your Brand is Verifier

A. User already has a KYC/KYB in his wallet



A1_USER clicks: Connect ID Wallet. No > END

A2_ Wallet Request Security PIN - No > END

A2.1_ Wallet: Request for permission to connect to website/service = DID (YOUR BRAND) to DID (USER) connect. No > END

A3_ Website/Service received the information which DID is connected. [YOUR BRAND] may remember the client/returning user

A4_ Website/Service requests credential set container (specific level of KYC). No > Go to B2

A5_ Wallet request USER permission to disclose data. No > END

A6_ Website/Service receives specific credential set (KYC data). Don't trust unvalidated data

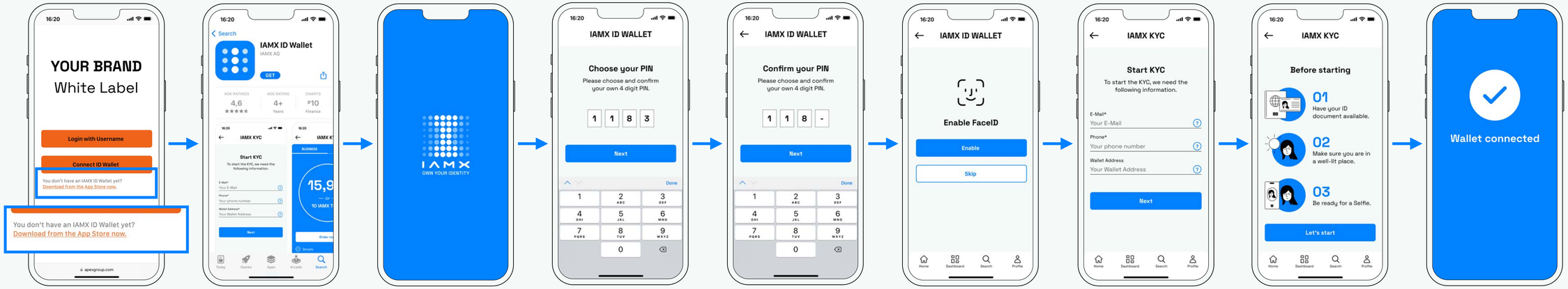
A7_ Website/Service validates data using the IAMX API. Data invalid = No > END

A8_ Website/Service processes the KCY data. You are logged-in/success

Appendix

Your Brand is Issuer

B. User has no KYC/KYB in his wallet



B1_Create ID Wallet.
Download & install IAMX ID Wallet

B2_Link-out to make KYC via IAMX.

B2.1_Choose PIN (User creates his own PIN)

B2.2_Confirm PIN (User confirms his own PIN)

B2.3_Enable FaceID (optional, just for Apple - Fingerprint for Android will follow)

B2.4_Create Identity (User goes through the complete funnel of doing a KYC)

B2.5_Payment decision? Who pays for the KYC? Presumption: YOUR BRAND pays for KYC/KYB for its new users) - Legal Disclaimer, etc... **KYC is ready now**

B3_USER clicks: Connect ID Wallet. -> Go to A1 (on the other flow chart)

B4_Wallet: Request for permission to connect to website/service
= DID (YOUR BRAND) to DID (USER) connect.

B5_Website/Service received the information which DID is connected.

B6_Website/Service requests credential set container (specific level of KYC).

B7_Wallet request USER permission to disclose data. No > END

B8_Website/Service receives specific credential set (KYC data).

B9_Website/Service validates data using the IAMX API.

B10_Website/Service processes the KCY data.

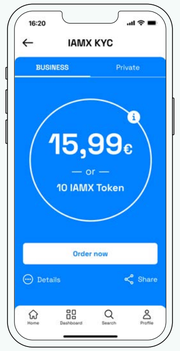
Appendix

IAMX ID Wallet Flow

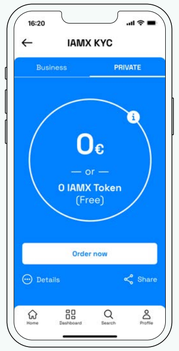
KYC Process

01_iPhone Homescreen

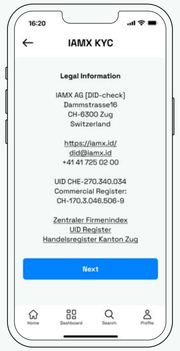
02_Digital Identity



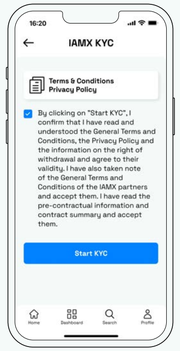
03.1_KYC Business



04.1_KYC Private

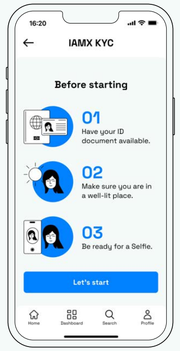


05.1_Legal Information



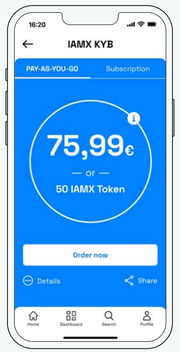
06.1_Confirm T&Cs

07.1_Start KYC Process

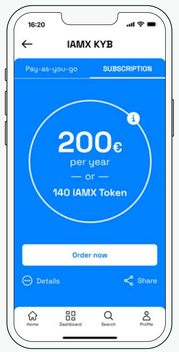


08.1_Start KYC Overview

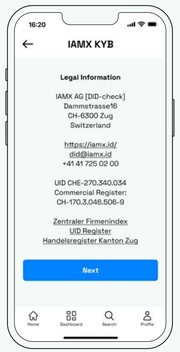
KYB Process



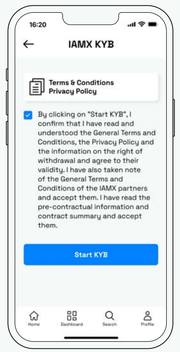
03.2_KYB Business



04.2_KYB Private

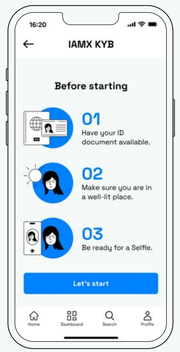


05.2_Legal Information

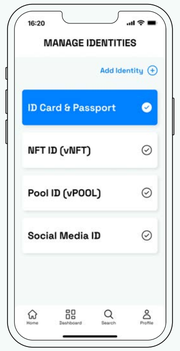


06.2_Confirm T&Cs

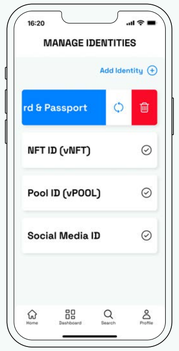
07.2_Start KYB Process



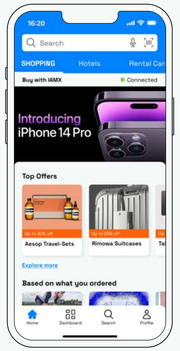
08.2_Start KYB Overview



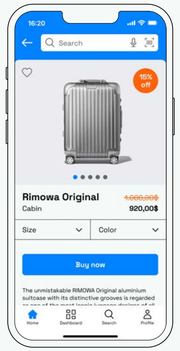
09_Manage Identities



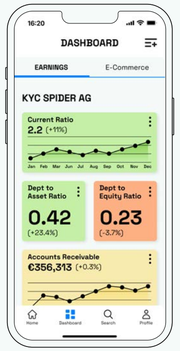
09.1_Manage Identities



10_IAMX Marketplace



11_Marketplace_Offer

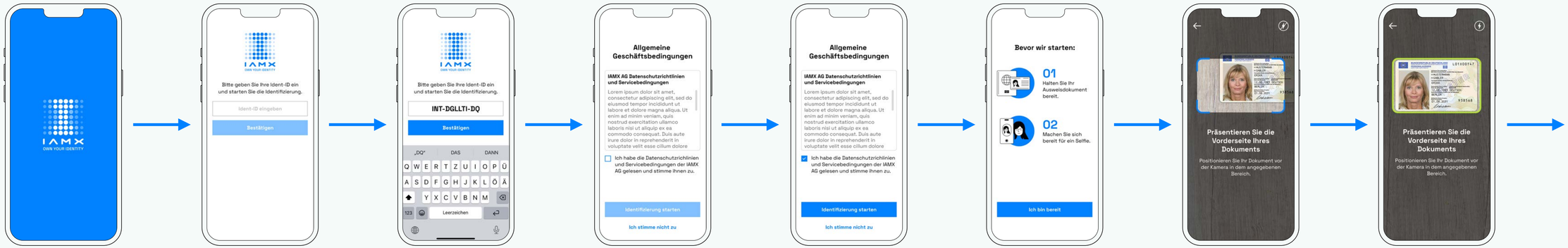


12.1_Dashboard_Earnings

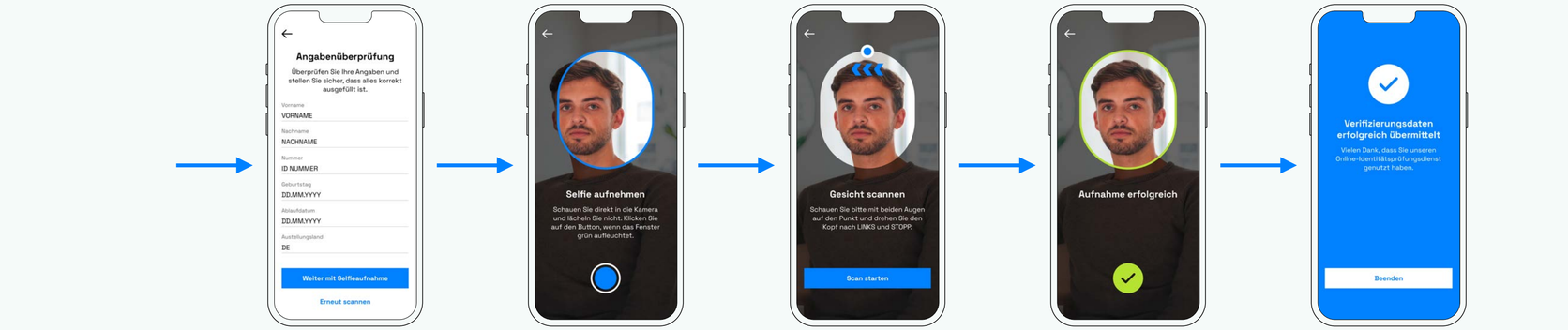
12.2_Dashboard_eCommerce

Appendix

IAMX ID Wallet Flow



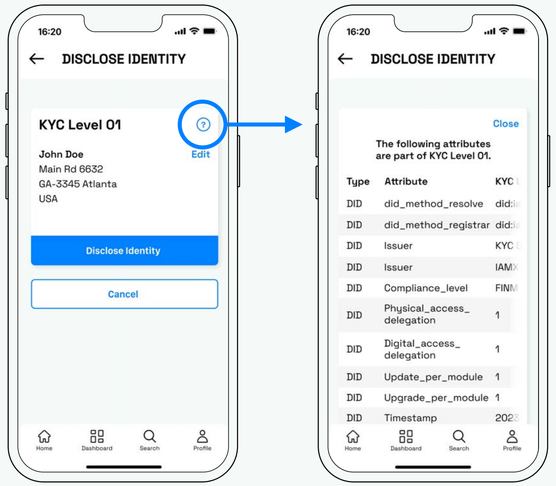
01_Splash Screen | 02.1_Ident-ID | 02.2_Ident-ID | 03.1_T&Cs | 03.2_Confirm T&Cs | 04_Start Identity Check | 05.1_ID Scan | 05.2_ID Scan



06_Personal Informations | 07.1_Selfie | 07.2_Selfie | 07.3_Selfie | 08_Identity Check Successful

Appendix

Decentralized Identifier & Verifiable Credentials



Disclose Identity

Disclose Identity_Details

Decentralized Identifier (DID)

Type	Attribute	KYC Level 01
DID	did_method_resolve	did:iamx
DID	did_method_registrar	did:iamx
DID	Issuer	KYC Spider AG [DID]
DID	Issuer	IAMX AG [DID]
DID	Compliance_level	FINMA
DID	Physical_access_delegation	1
DID	Digital_access_delegation	1
DID	Update_per_module	1
DID	Upgrade_per_module	1
DID	Timestamp	2023-01-09 16:20:17
DID	Proof of identity	1
DID	National_identity_id	1
DID	Passport_id	1
DID	Drivers_license_id	1
DID	Proof of address check	1
DID	Drivers_license_address	0
DID	AML overall	1
DID	AML sanction	1
DID	AML pep	1
DID	AML crime	1
DID	AML compliance	1
DID	AML media	1
DID	AML esg	1
DID	Email verification	1
DID	Phone verfication	1
DID	Liveness check and face match	1
DID	Known face search	1

Verifiable Credentials (VC)

Type	Attribute	KYC Level 01
VC	Timestamp	1
VC	Reference	1
VC	ID_type	1
VC	ID_number	1
VC	Issuing_authority	1
VC	Issuing_date	1
VC	Expiration_date	1
VC	Name_first	1
VC	Name_surname	1
VC	Birth_place	1
VC	Birth_date	1
VC	Nationality	1
VC	Street_name	1
VC	Street_number	1
VC	Zip	1
VC	City	1
VC	Country	1
VC	State	1
VC	Face_match	1
VC	Risk_overall	1
VC	Risk_sanction	1
VC	Risk_pep	1
VC	Risk_crime	1
VC	Risk_compliance	1
VC	Risk_media	1
VC	Risk_esg	1

Contact us

Tim Heidfeld

tim@iamx.id

+49 172 8991115

Tim Brückmann

tb@iamx.id

+49 163 2667667

IAMX AG, Dammstrasse 16, CH-6300 Zug, Switzerland

UID CHE-270.340.034 MWST

Commercial Register: CH-170.3.046.506-9

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2 Examples of Client Use Cases – Relai und DFX

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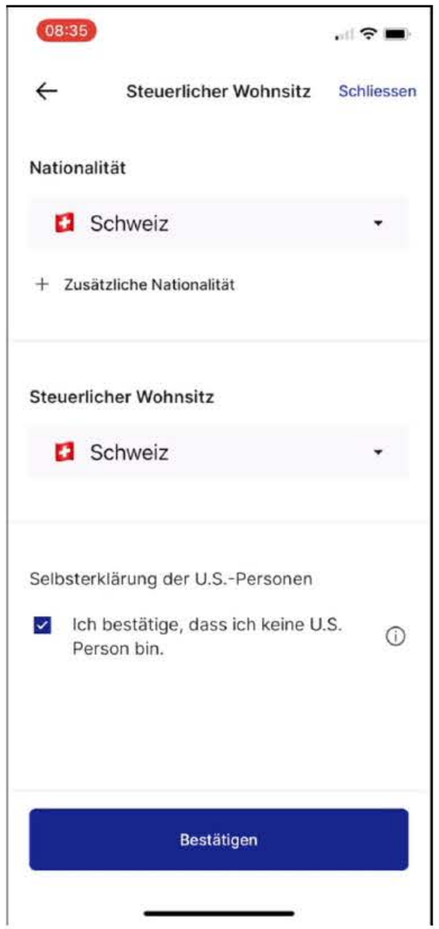
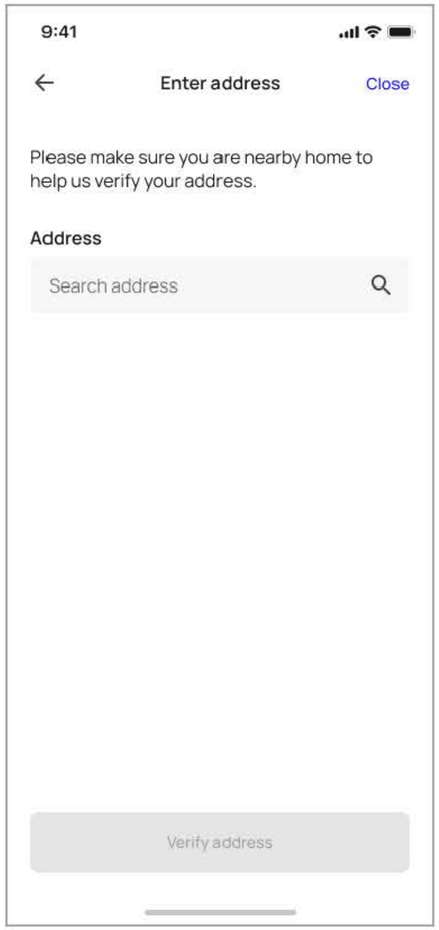
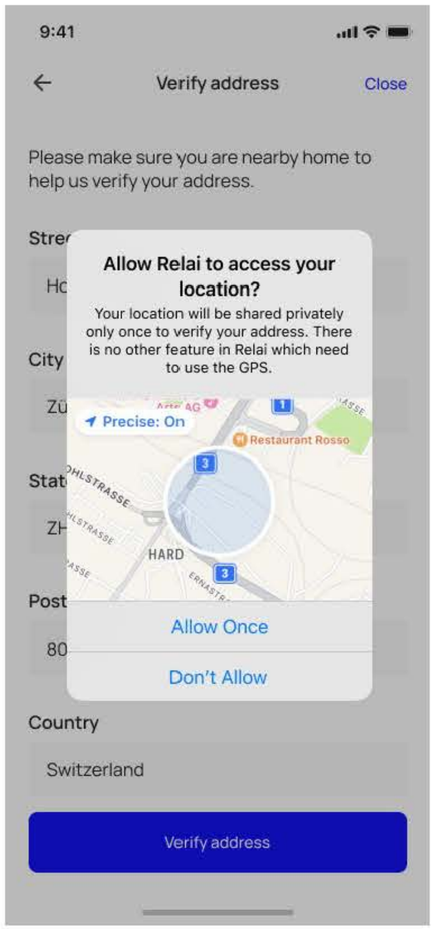
EXAMPLE 1: RELAI - CLIENT ONBOARDING VIA MOBILE APP

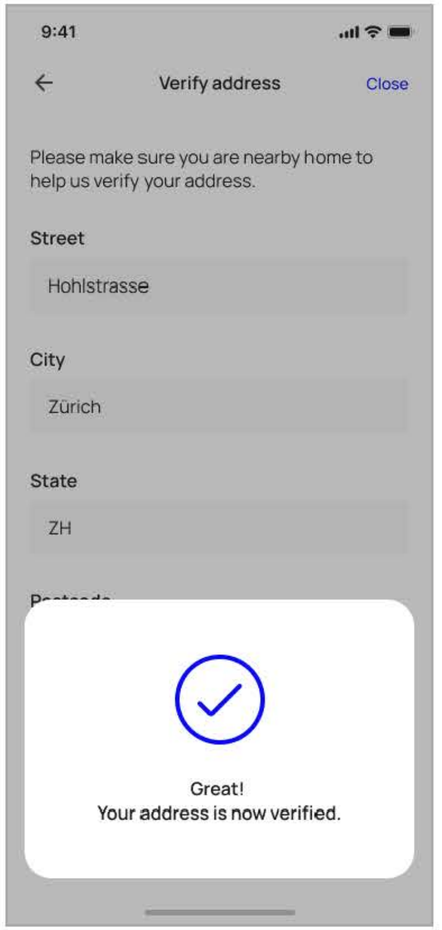
STARTS WITH THE **REGISTRATION** OF THE CLIENT, FOLLOWED BY AN **ADDRESS CHECK** VIA GEO-LOCALIZATION

- Client: Relai (https://relai.app/de/), App for Bitcoin transactions
- Seamless integration of various KYC Spider onboarding solutions incl. location/address verification and online identification



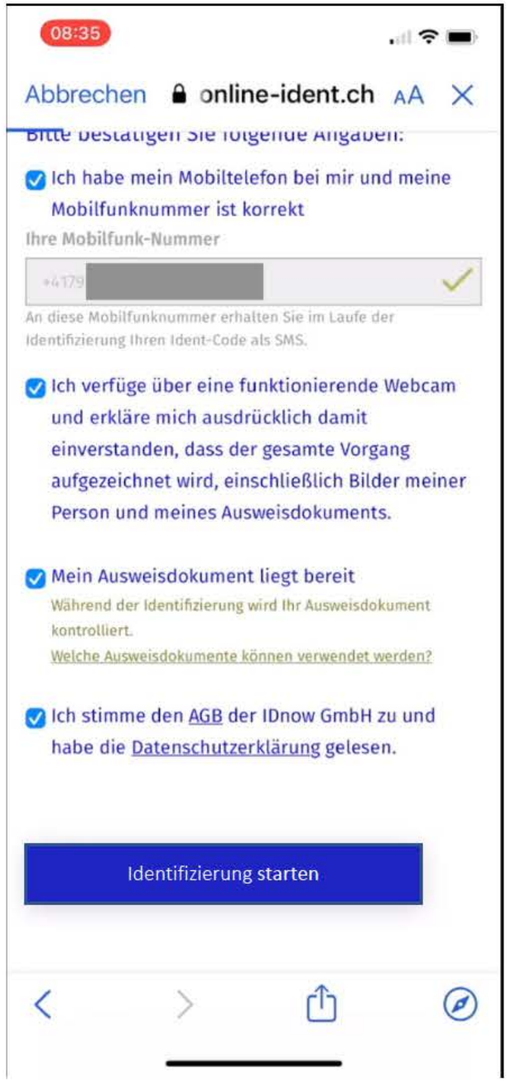






EXAMPLE 1: RELAI - CLIENT ONBOARDING VIA MOBILE APP

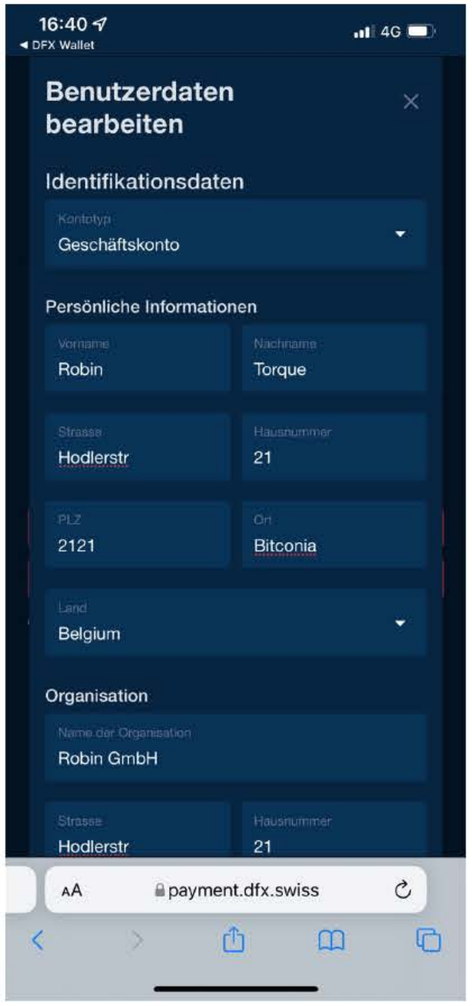
AFTER THE ADDRESS CHECK, THE CLIENT IS ASKED TO DO AN **ONLINE IDENTIFICATION**

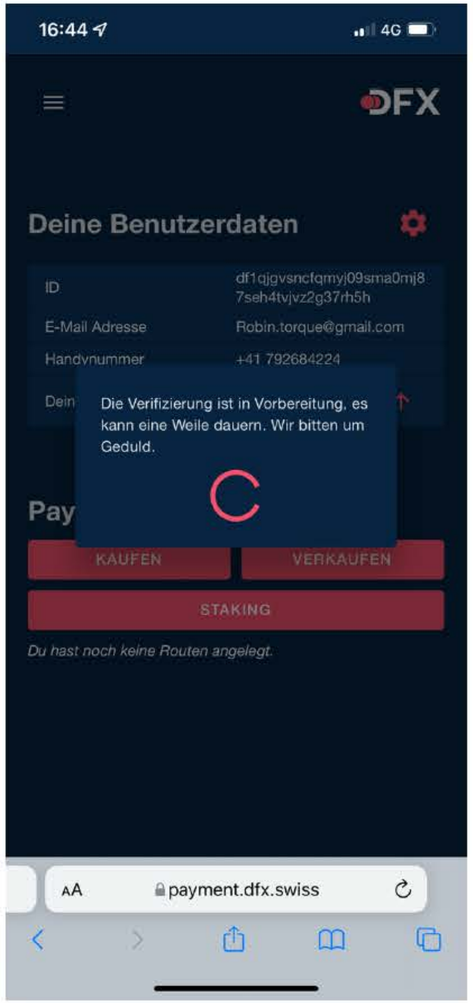


EXAMPLE 2: DFX - CLIENT ONBOARDING VIA WEB BROWSER

REGISTRATION OF A LEGAL ENTITIY VIA CONVERSATION PARTNER FOLLOWED BY THE **UPLOAD SERVICE** TO UPLOAD THE STATUTES OF ASSOCIATION OR THE CERTIFICATE OF INCORPORATION

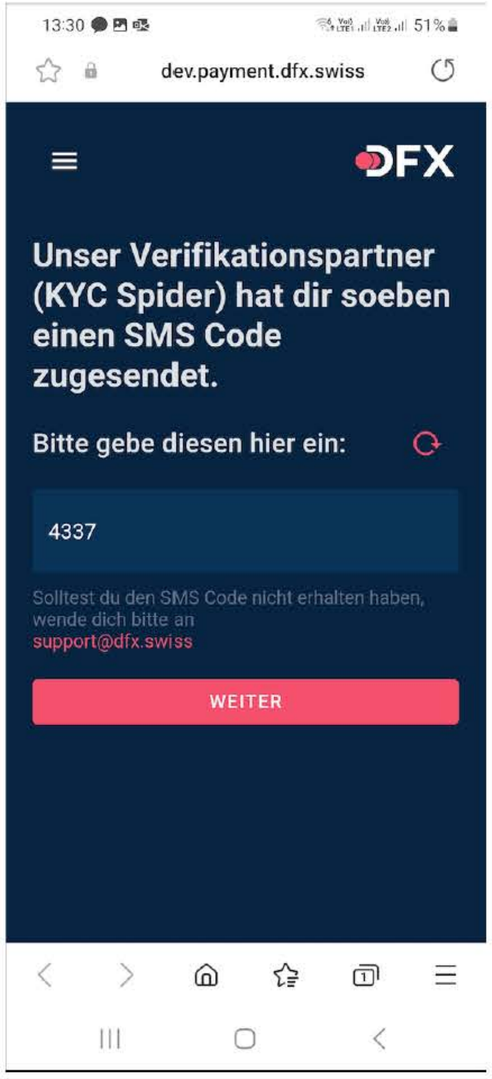
- Client: DFX (https://dfx.swiss/de), crypto market place
- Seamless integration of various KYC Spider onboarding solutions incl. onboarding chatbot, generation of all compliance forms and online identification

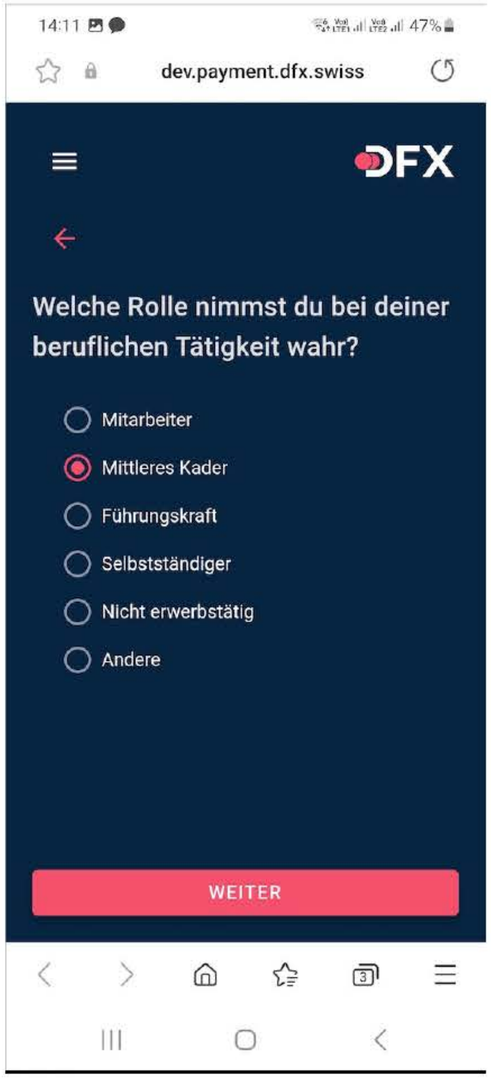


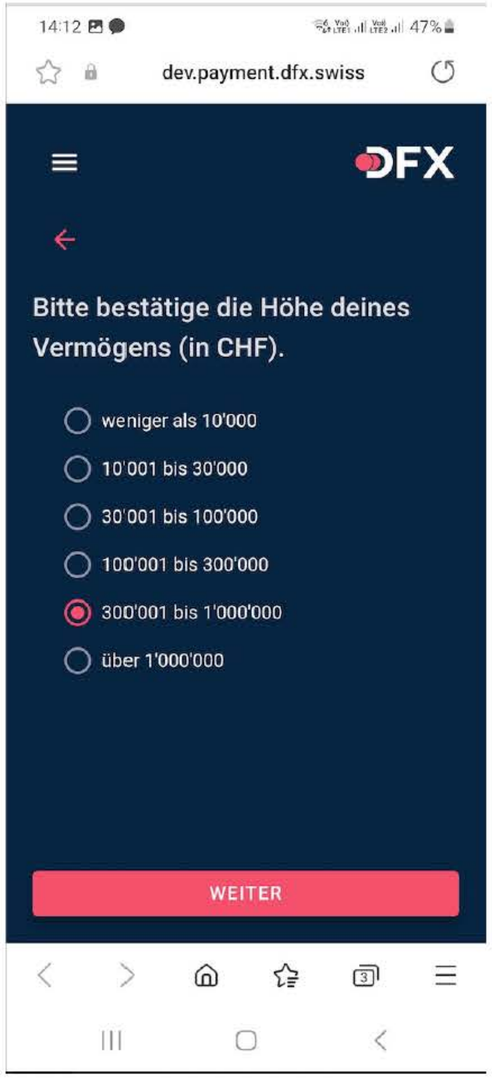


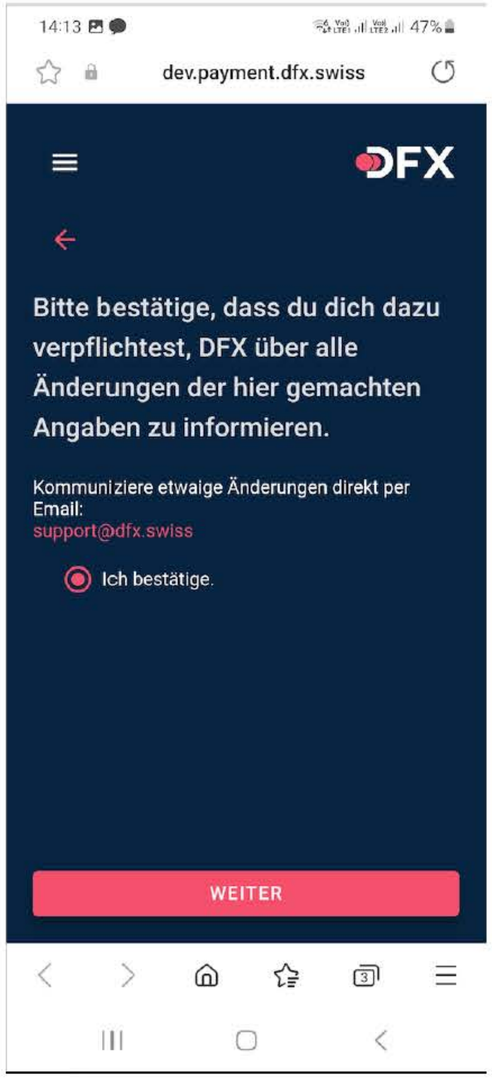
EXAMPLE 2: DFX - CLIENT ONBOARDING VIA WEB BROWSER

AFTER THE UPLOAD OF THE DOCUMENTS, THE CLIENT IS ASKED TO COMPLETE THE **ONBOARDING CHATBOT** WITH THE ULTIMATE GOAL TO GENERATE THE **COMPLIANCE FORMS** AUTOMATICALLY (**FORM A/K,** RISK PROFILE, IDENTIFICATION FORM AND CUSTOMER PROFILE)



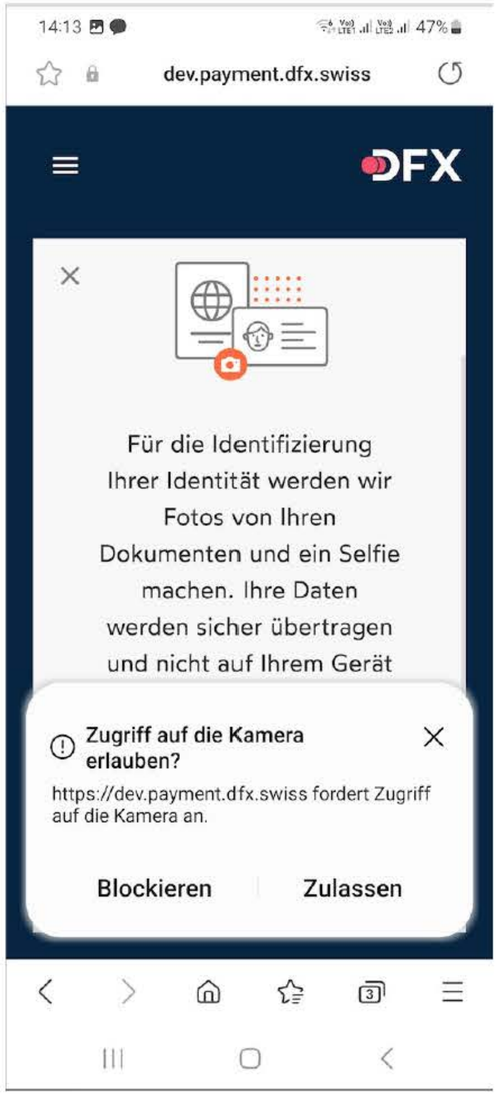






EXAMPLE 2: DFX - CLIENT ONBOARDING VIA WEB BROWSER

AFTER THE **ONBOARDING CHATBOT** IS COMPLETED, THE CLIENT IS INVITED TO PROCEED WITH THE **ONLINE IDENTIFICATION**. IF THIS IS UNSUCCESSFUL, THE CLIENT WILL BE AUTOMATICALLY ASKED TO COMPLETE A **VIDEO IDENTIFICATION**



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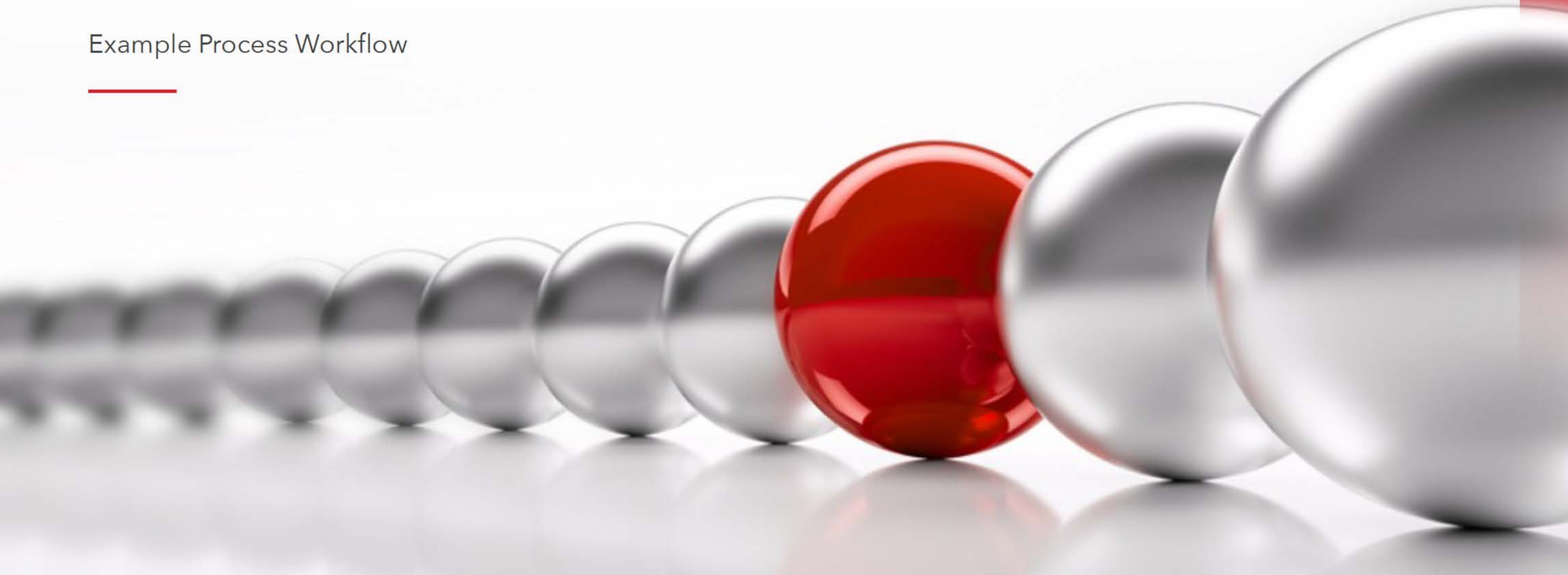
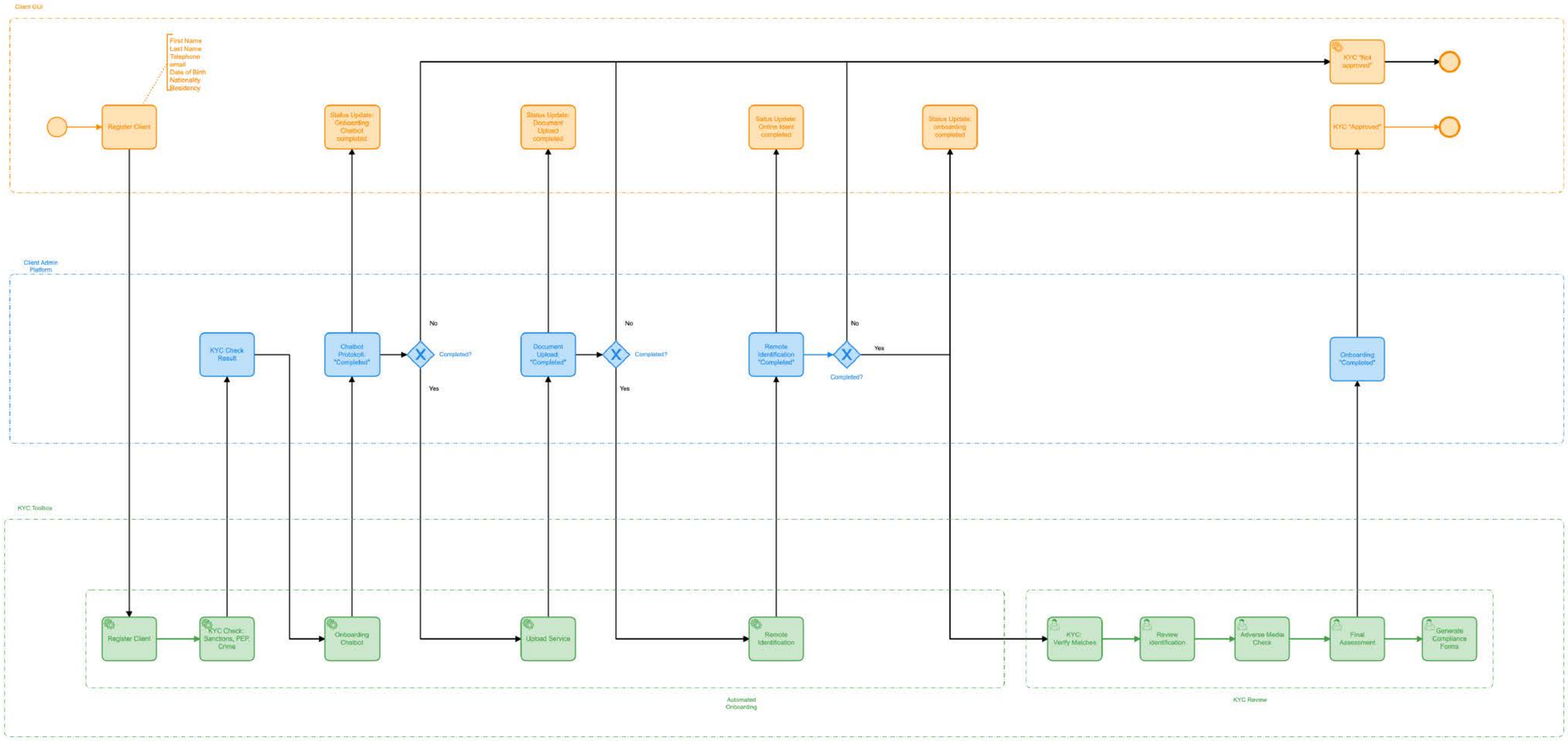
Example Process Workflow



SAMPLE WORKFLOW



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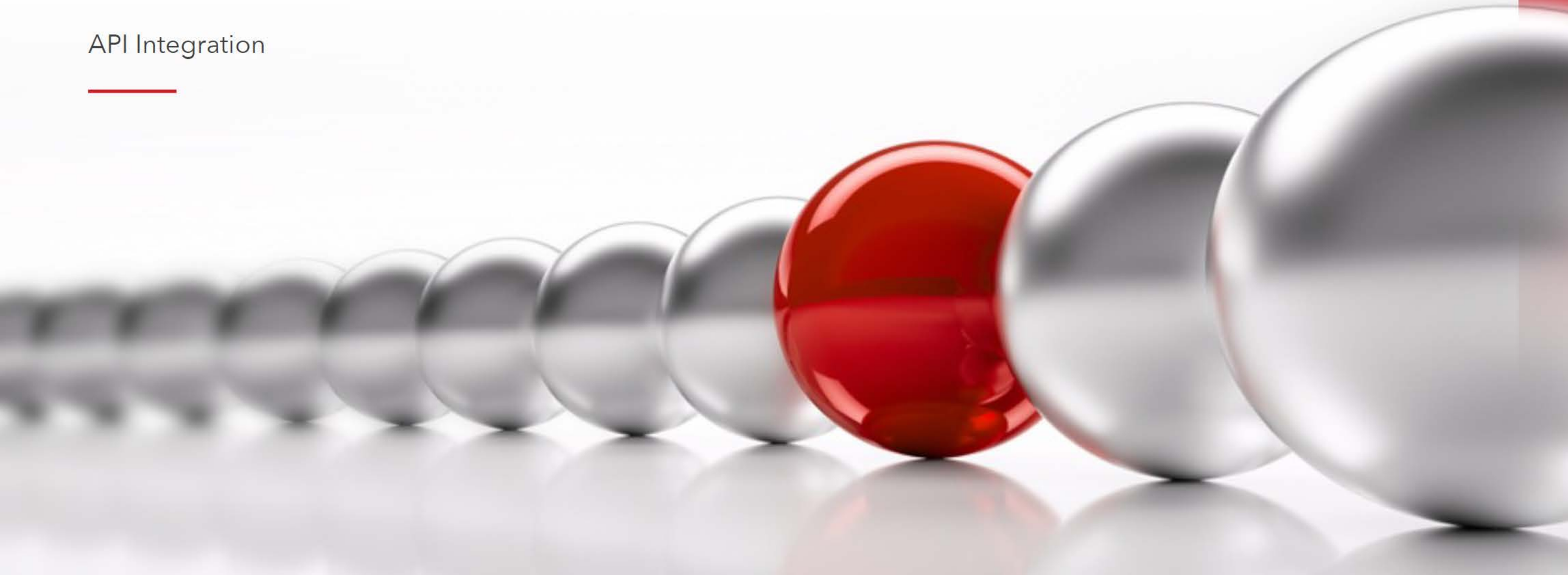
API Integration



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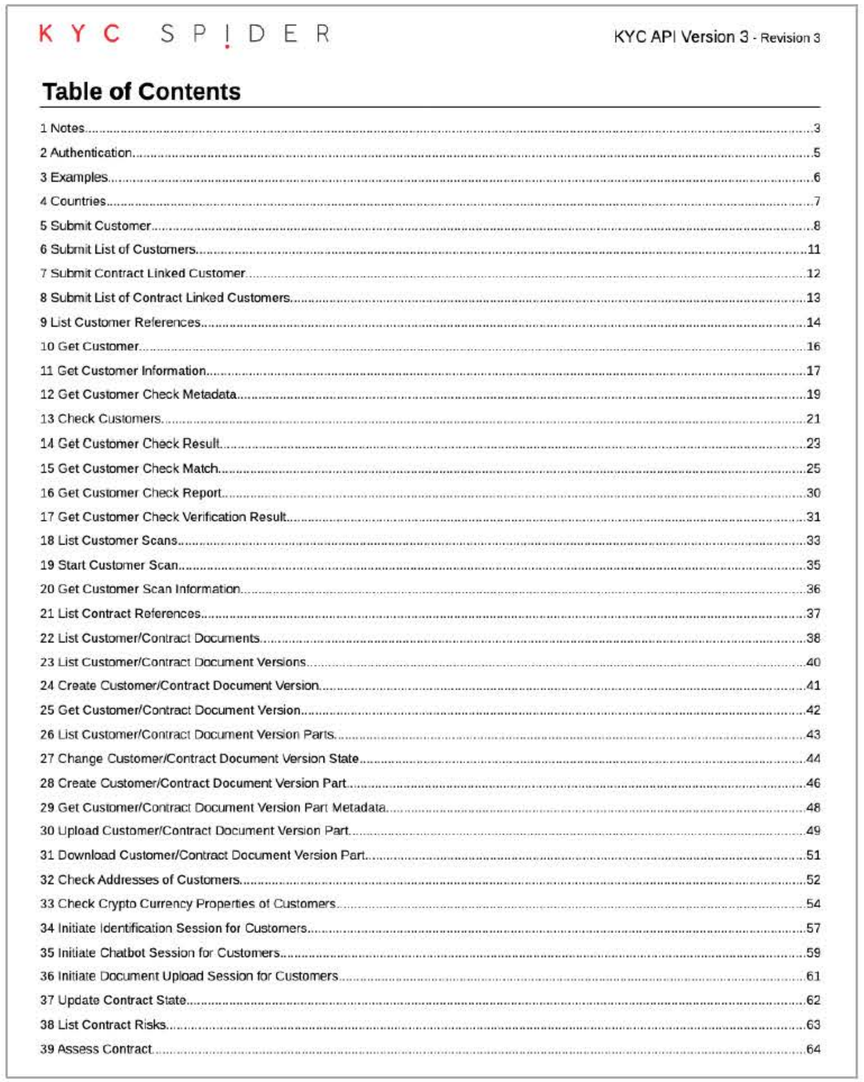
API CONNECTIVITY



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KYC API Version 3 - Revision 3

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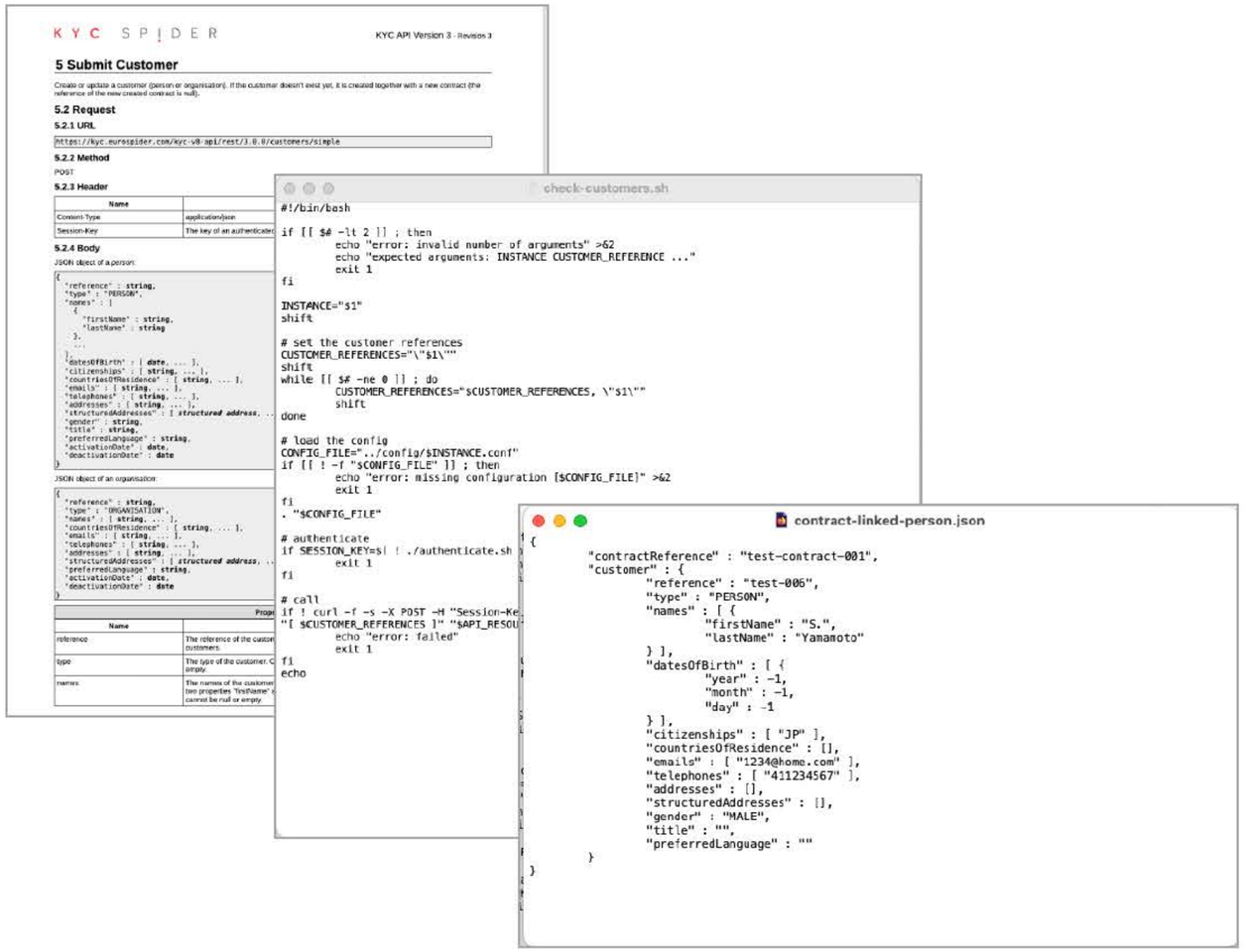

KYC SPIDER KYC API Version 3 - Revision 3

5 Submit Customer

Create or update a customer (person or organisation). If the customer doesn't exist yet, it is created together with a new contract (the reference of the new created contract is null).

5.2 Request

5.2.1 URL

https://kyc.eurospider.com/kyc-v0-api/rest/3.0.0/customers/simple

5.2.2 Method

POST

5.2.3 Header

Name	
Content-Type	application/json
Session-Key	The key of an authenticated

5.2.4 Body

JSON object of a person:

```
{
  "reference" : string,
  "type" : "PERSON",
  "names" : [
    {
      "firstName" : string,
      "lastName" : string
    },
    ...
  ],
  "datesOfBirth" : [ date, ... ],
  "citizenships" : [ string, ... ],
  "countriesOfResidence" : [ string, ... ],
  "emails" : [ string, ... ],
  "telephones" : [ string, ... ],
  "addresses" : [ string, ... ],
  "structuredAddresses" : [ structured address, ...
  "gender" : string,
  "title" : string,
  "preferredLanguage" : string,
  "activationDate" : date,
  "deactivationDate" : date
}
```

JSON object of an organisation:

```
{
  "reference" : string,
  "type" : "ORGANISATION",
  "names" : [ string, ... ],
  "countriesOfResidence" : [ string, ... ],
  "emails" : [ string, ... ],
  "telephones" : [ string, ... ],
  "addresses" : [ string, ... ],
  "structuredAddresses" : [ structured address, ...
  "preferredLanguage" : string,
  "activationDate" : date,
  "deactivationDate" : date
}
```

Name	
reference	The reference of the custom customers.
type	The type of the customer. C empty.
names	The names of the customer two properties "firstName" cannot be null or empty.

check-customers.sh

```
#!/bin/bash

if [[ $# -lt 2 ]] ; then
        echo "error: invalid number of arguments" >&2
        echo "expected arguments: INSTANCE CUSTOMER_REFERENCE ..."
        exit 1
fi

INSTANCE="$1"
shift

# set the customer references
CUSTOMER_REFERENCES="\"$1\""
shift
while [[ $# -ne 0 ]] ; do
        CUSTOMER_REFERENCES="$CUSTOMER_REFERENCES, \"$1\""
        shift
done

# load the config
CONFIG_FILE="../config/$INSTANCE.conf"
if [[ ! -f "$CONFIG_FILE" ]] ; then
        echo "error: missing configuration [$CONFIG_FILE]" >&2
        exit 1
fi
. "$CONFIG_FILE"

# authenticate
if $SESSION_KEY=$( ! ./authenticate.sh
        exit 1
fi

# call
if ! curl -f -s -X POST -H "Session-Ke
"[ $CUSTOMER_REFERENCES ]" "$API_RESOU
        echo "error: failed"
        exit 1
fi
echo
```

contract-linked-person.json

```
{
        "contractReference" : "test-contract-001",
        "customer" : {
                "reference" : "test-006",
                "type" : "PERSON",
                "names" : [ {
                        "firstName" : "S.",
                        "lastName" : "Yamamoto"
                } ],
                "datesOfBirth" : [ {
                        "year" : -1,
                        "month" : -1,
                        "day" : -1
                } ],
                "citizenships" : [ "JP" ],
                "countriesOfResidence" : [],
                "emails" : [ "1234@home.com" ],
                "telephones" : [ "411234567" ],
                "addresses" : [],
                "structuredAddresses" : [],
                "gender" : "MALE",
                "title" : "",
                "preferredLanguage" : ""
        }
}
```

Note: the complete API documentation is available in the KYC Toolbox, or upon request.

RESHAPE COMPLIANCE WITH DIGITAL KYC

KYC SPIDER

www.kyc.ch

KYC Spider AG
Gubelstrasse 11
CH-6300 Zug

Stephanie Bossart, Head of Business Development
M: +41 78 718 56 79
contact@kyc.ch