API-Forum Justitia 4.0

Für eine sichere digitale Justiz – damit der Weg zum Recht nicht mehr über Papierberge führt

23. Januar 2025

J40 Plattform team
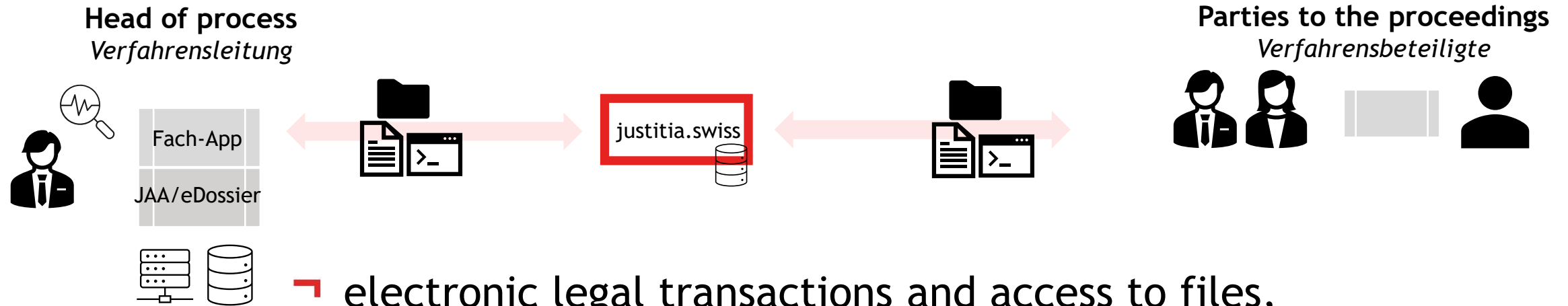14.02.2025

Introduction

Monika

Goals of the webinar

You know:

⌐ Status and planning of the platform justitia.swiss and the API

⌐ Rule of cooperation & general conditions

⌐ Technical concepts

⌐ Customer Speech - Lawyer

⌐ Next Steps

⌐ Questions & Answers

justitia.swiss
general concept

Marcel Ging

justitia.swiss - a secure exchange platform

Head of process
Verfahrensleitung

Parties to the proceedings
Verfahrensbeteiligte
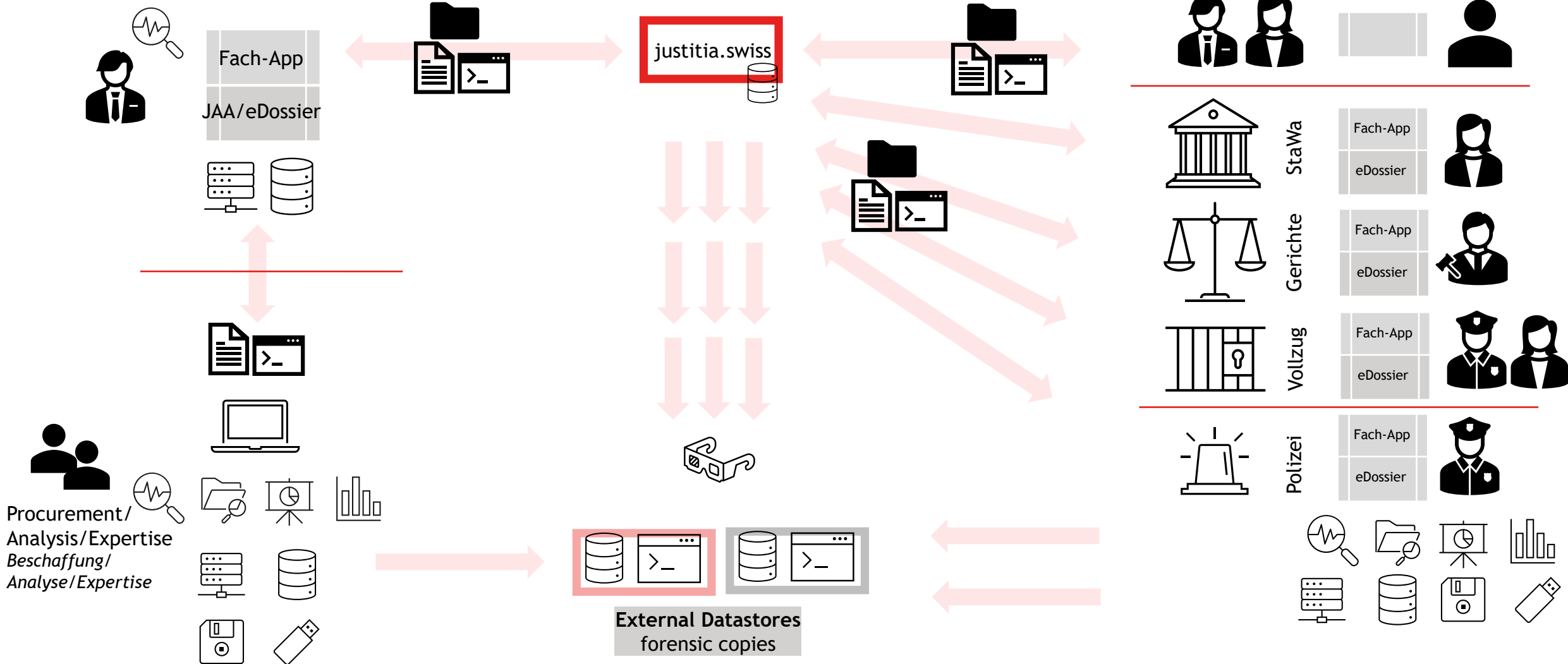
Fach-App

JAA/eDossier

justitia.swiss

- ¬ electronic legal transactions and access to files, seals, receipts, address book of authorities

- ¬ communication via encrypted channels, digital identity check, virus check, encryption of files and metadata

- ¬ parties have profiles to which authorised users have access and can upload and download files
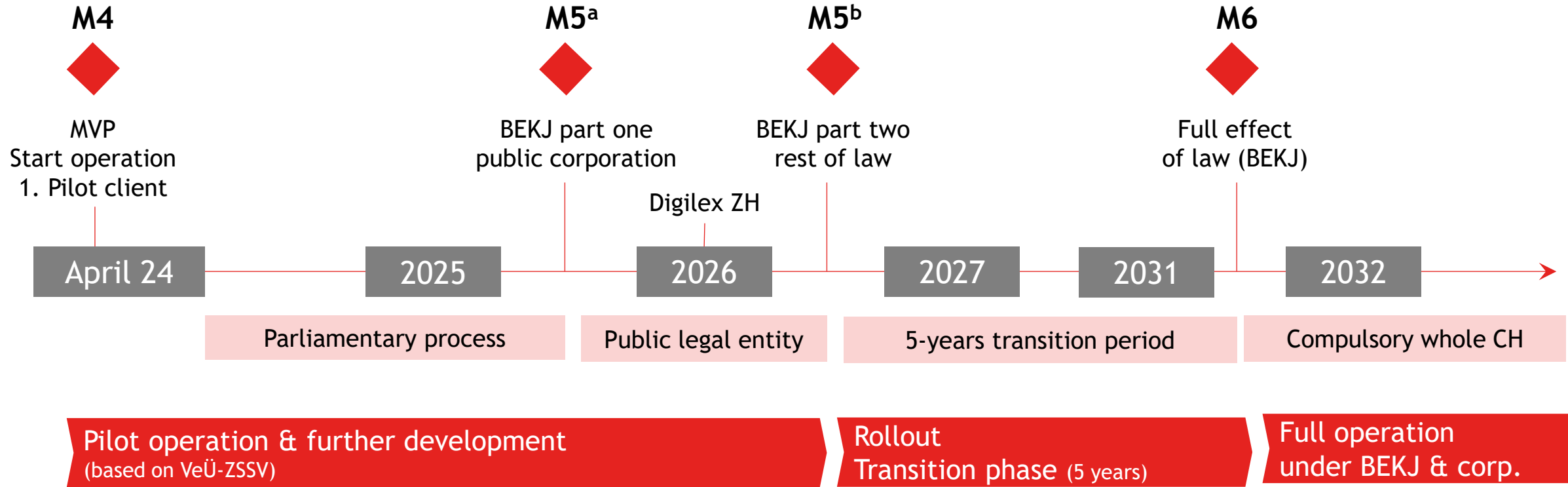
justitia.swiss - a secure exchange platform

J4.0

Head of process
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justitia.swiss

Parties to the proceedings
Verfahrensbeteiligte

StaWa
Fach-App
eDossier

Gerichte
Fach-App
eDossier

Vollzug
Fach-App
eDossier

Polizei
Fach-App
eDossier

Procurement/
Analysis/Expertise
*Beschaffung/
Analyse/Expertise*

External Datastores
forensic copies

Roadmap of platform justitia.swiss – current working hypothesis

J 4.0

M4

MVP
Start operation
1. Pilot client

M5ᵃ

BEKJ part one
public corporation

M5ᵇ

BEKJ part two
rest of law

Digilex ZH

M6

Full effect
of law (BEKJ)

| April 24 | 2025 | 2026 | 2027 | 2031 | 2032 |

Parliamentary process | Public legal entity | 5-years transition period | Compulsory whole CH

Pilot operation & further development
(based on VeÜ-ZSSV)

Rollout
Transition phase (5 years)

Full operation
under BEKJ & corp.

⌐ in operation since April 2024

⌐ high security standard

⌐ all basic functions available

⌐ easy to use (Web GUI & public API)

⌐ operation and support organization

⌐ training environment open to all

Feature Lifecycle - Development Process

Feature Wish on the Backlog

- We welcome proposals for new features,
  as long as they support the goals of the platform.

Realisation of the Feature

- The project team is responsible for deciding on the integration of new features.

- Once approved, the feature will be part of Sprint (3-weekly)
  Refined, Developed, Tested and Accepted

Feature on TRAIN

- Is later launched on TRAIN.
  - Preliminary descriptions (Release notes) to outline new feature
  - You might need to modify your code accordingly.

Production

- Official launch on PROD wit release notes
- Full operational support

Decommissioning

- When a feature is retired
  some API endpoints may be designated as deprecated.

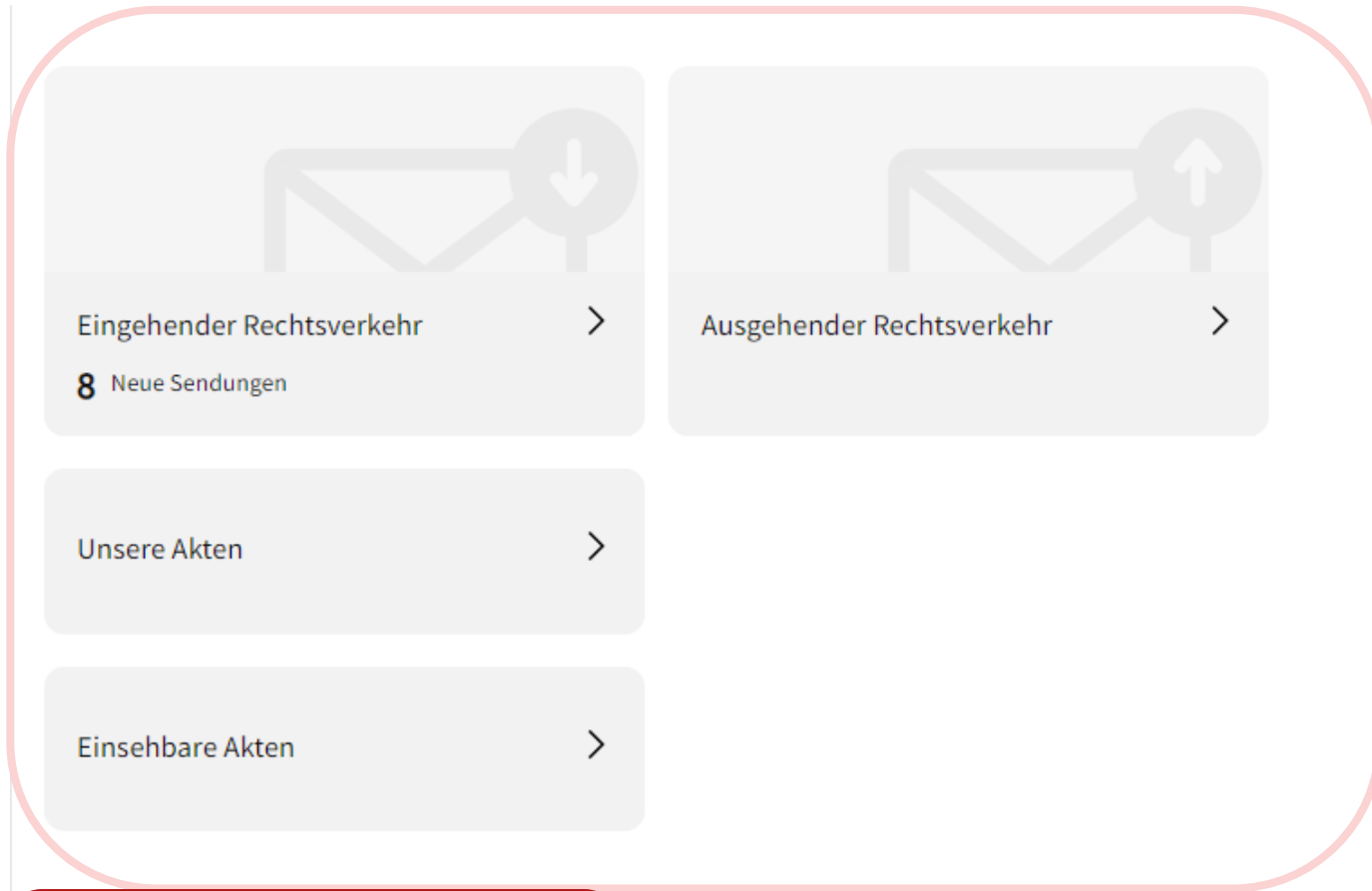Justitia 4.0 - Projektstand

Practice!

Franz Achermann

Where are the system boundaries of the platform?
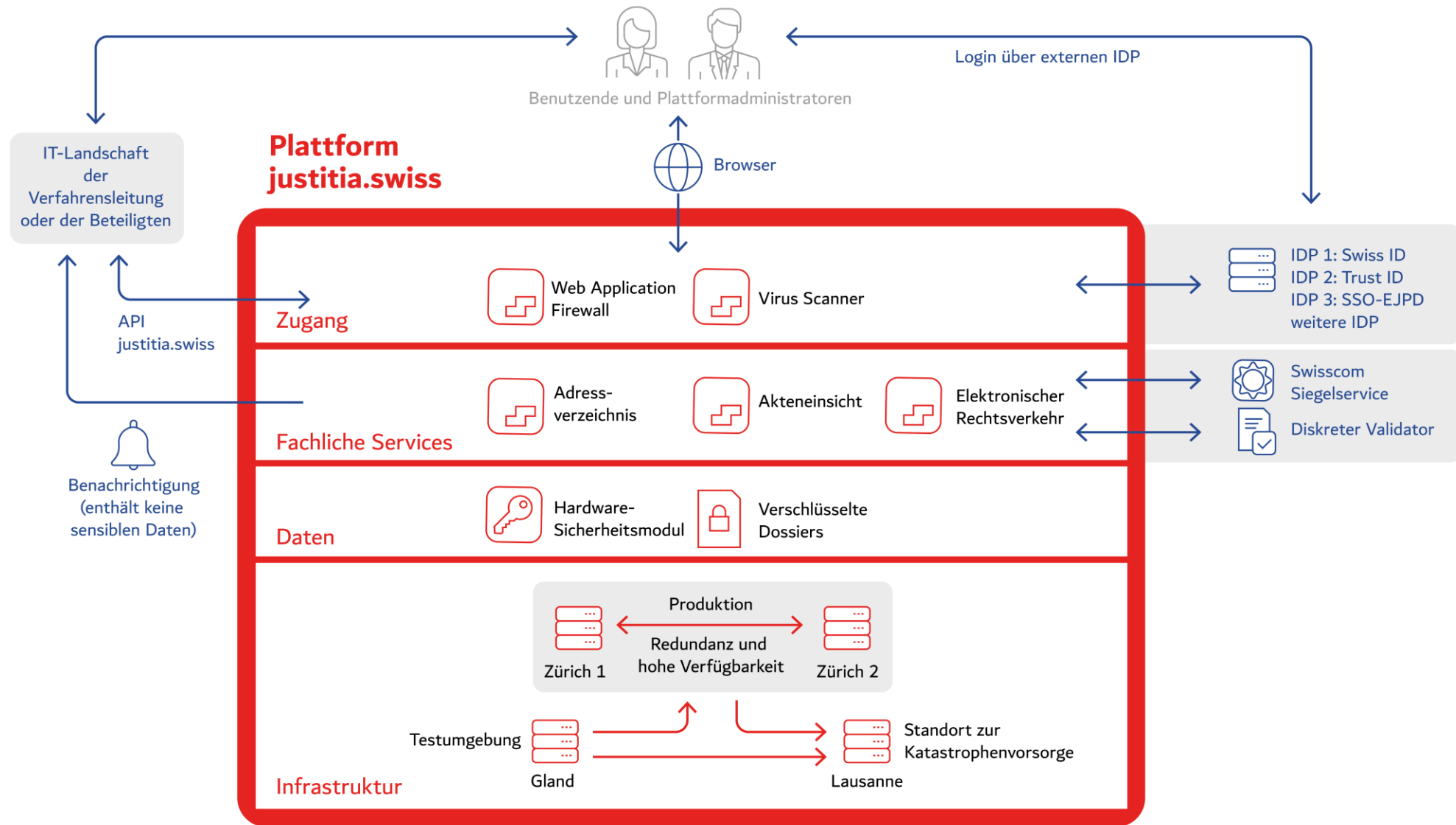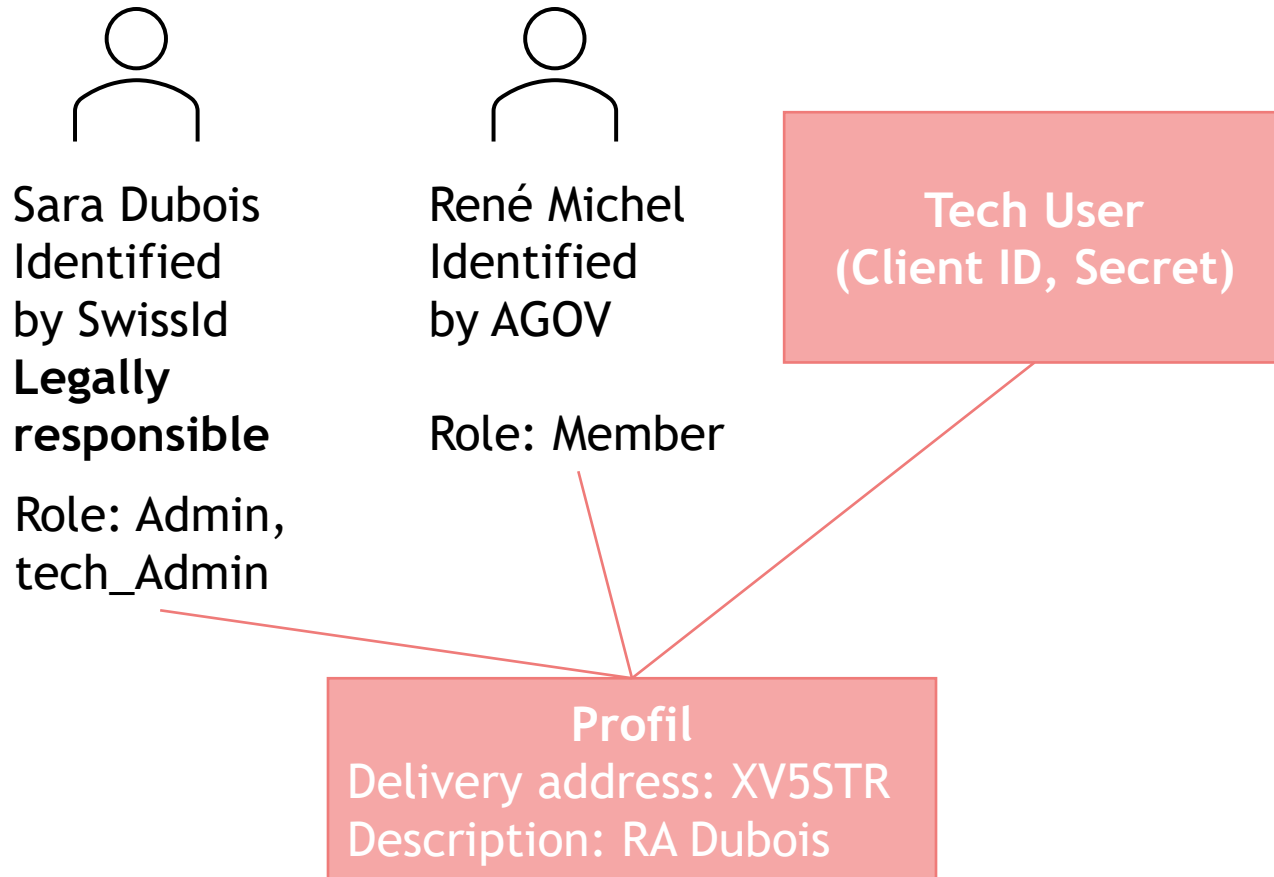
What functions can be used via the API?

Via API:

Edit transmissions and dossiers.
Transmit documents

Only via Web:

Editing profiles
Inviting new members
Creating and deleting technical users

What a technical user is and may do

Sara Dubois
Identified
by SwissId
**Legally
responsible**

Role: Admin,
tech_Admin

René Michel
Identified
by AGOV

Role: Member

**Tech User
(Client ID, Secret)**

**Profil
Delivery address: XV5STR
Description: RA Dubois**

Technical users belong to a profile (like normal members)
Profiles with support for Tech Users: Authority Profile and Org-Profile

The security elements (Client Id and Secret) authenticate the technical user

→ They *must* be protected

→ The security elements are transferred to the specialised application according to *the protocol*

→ *No tech User with 'access to all profiles'*

Feature on TRAIN: how can we test?

Feature Wish on the Backlog

Realisation of the Feature

Feature on TRAIN

... Production

Decommissioning

- Create Profile on TRAIN Platform and create a technical user. Use Swagger, Postman and the development tool of your choice.

- Report issues at Support (https://www.justitia.swiss/de/support/hotline) :

  - Issues are Bugs, strange things happening.

  - Questions regarding features should be addressed to info@justitia.swiss

- End-2-End testing:

  - You might need to create a 'test-authority' to make control your end-2-end testing.

  - You might need to include your customers, your software and a partner at the other side

Justitia 4.0 - Projektstand

Production: Caution is the mother of the china box

Feature Wish on the Backlog

Realisation of the Feature

Feature on TRAIN

... Production

Decommissioning

Justitia 4.0 - Projektstand

- Report bugs and help our support to quickly locate the issue:

    - The platform adds an HTTP header field **X-Request-ID** to all inbound requests and returns it with the response. The value of this field should be reported when support tickets are created, as it allows to trace requests in the log and therefore greatly simplifies error analysis.

- Is there a 1st Level Organization on your side? Yes, for authorities.

- We plan to support the User Agent Field in the HTTP Request. This will allow us to identify if you (or your software) is using deprecated endpoints or program around the framework.

- We decommission deprecated features after 1 year. (See Versioning on Doc. for developpers)

Decommissioning

J 4.0

Feature Wish on the Backlog

Realisation of the Feature

Feature on TRAIN

... Production

Decommissioning

-

- We plan to support the User Agent Field in the HTTP Request. This will allow us to identify if you (or your software) is using deprecated endpoints or program around the framework.

- We decommission deprecated features after 1 year. (See Versioning in "API justitia.swiss for Developers)

Feature: Validate the hash!

J4.0

1) You know the hash of the file: 46d9 edbb …

2) Upload via POST request:

POST /api/document-exchange/v1/submissions/{submission-id}/documents Upload a Submission document

Upload a Submission document
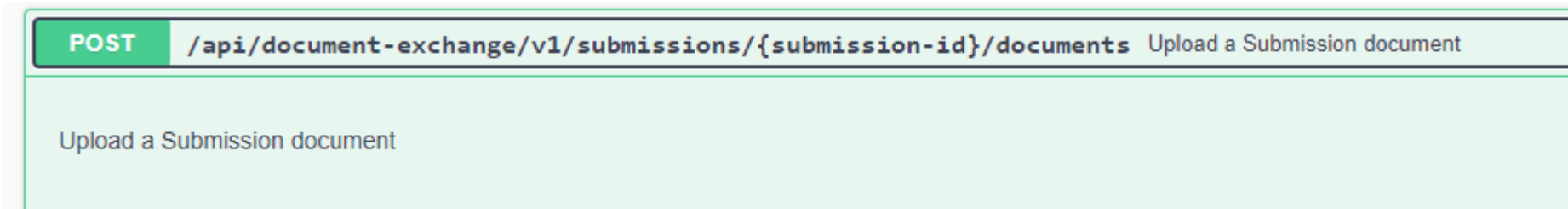
3) Verify on the answer:

```
{
    "id": "37d3d3bc-4436-447c-aeb5-d7552d4a2fb8",
    "displayName": "dummy.pdf",
    "hash": "46d9edbb427e5275a6845cd982fab0b5d2381878d6d66b3f4c1500eecfa96a2",
    "hashAlgorithm": "SHA3-384",
    "contentType": "application/pdf"
}
```

Feature: Use Our and Your References

- The API (and soon the GUI) suggests to use references to the dossiers on both side of the communication
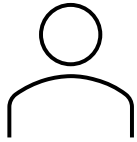
Sara Dubois
(Lawyer)
sends a **submission**

Example Value | Schema

```
{
    "subject": "Submission subject",
    "recipientProfile": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
    "submissionType": 3,
    "dossierId": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
    "externalDossierRef": "string"
}
```

Authority receives
submission

Has its own „Client
Dossier" to be passed as
„externalDossierRef"

and

creates
a dossier and
answers with a
transfer, using
Sara's
„externalDossierRef"

Example Value | Schema

```
{
    "dossierId": "428e24b0-7ed8-4bf6-8b78-29cef340dac3",
    "recipientProfile": "1f0aa0a3-e1ea-41f8-9a4e-e8534ef46b0c",
    "externalDossierRef": "string"
}
```

… and may
automatically associate
the incoming message
to the proper client
dossier

Roadmap – features to come

- Terms and Conditions to be accepted: Different on TRAIN and PROD

- Legally Responsible Person

- Split Transfers into different Transmissions: «Eingabe» «Zustellung» «Akteneinsicht»
- «Subject» for all kinds of Transmissions

- Fix Lifecycle of Documents and Dossiers

- Verification of (authority) seals

- Handling of filetypes for advanced use cases (IT-forensic, Decentral Storage, …)

SAV ⚖ FSA
Schweizerischer Anwaltsverband   Federazione Svizzera degli Avvocati
Fédération Suisse des Avocats   Swiss Bar Association

Testsystem train (1.6.1.2) de fr it en Testsystem train (1.6.1.2) Testsystem train (1.6.1.2) Testsystem train (1.6.1.2) Testsystem train (1.6.1.2) Testsystem train (1.6.1.2) Testsystem train (1.6.1.2) Testsystem train (1.6.1.2)

More comfort and efficiency than already provided by the platform Justitia.Swiss.

Eingehender Rechtsverkehr >

Ausgehender Rechtsverkehr >

Ask your customers

Outbound legal traffic

- Compilation of legal document (incl. enclosures)
- Input control (adding or deleting documents)
- Check transferability, hash value tool
- Direct filing of legal document (including selection of addressee)
- Download and automatic filing of submission receipt
- Information about documents (metadata)
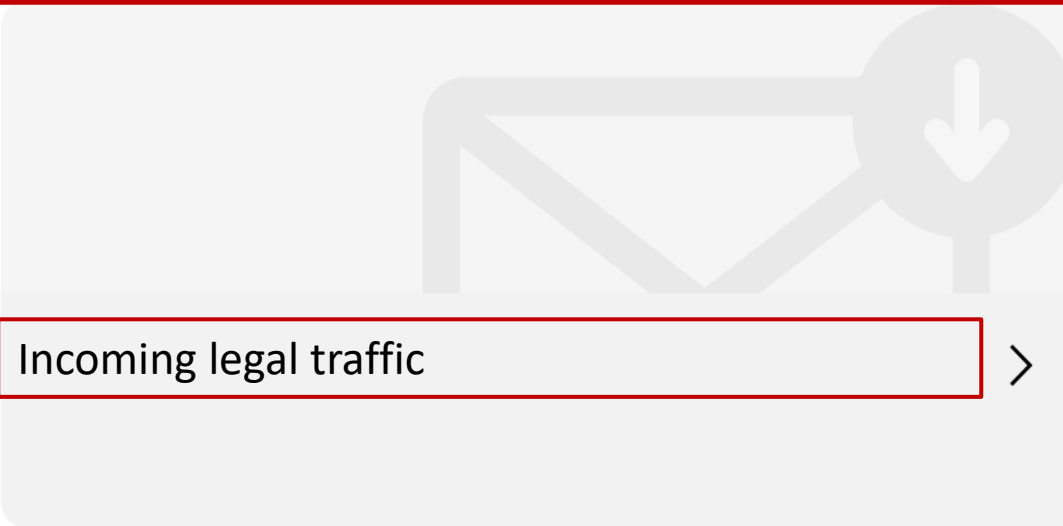- Enabling submission on behalf of another person

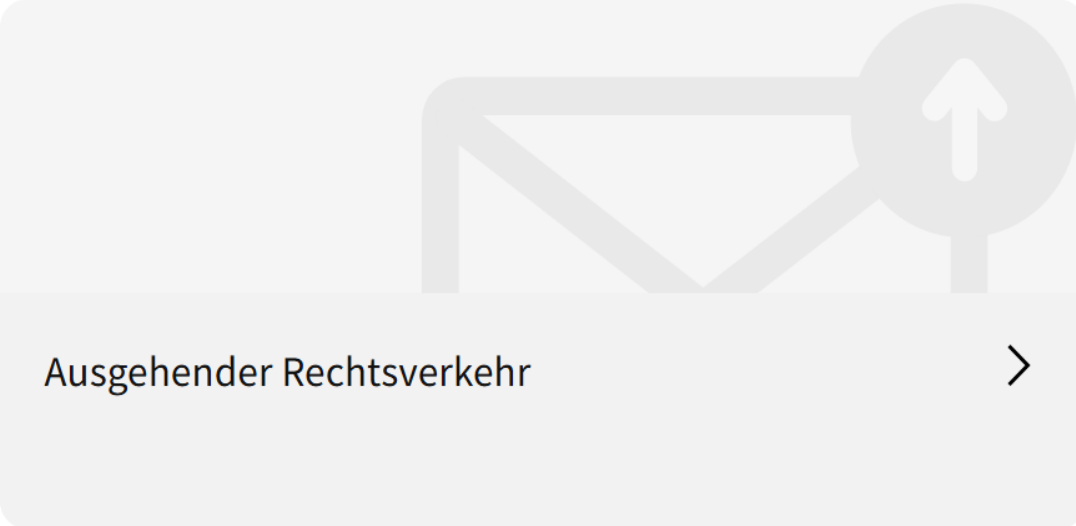Direct transfer from the software without any additional steps

Incoming legal traffic

- Notification of entry

- Warning of triggering the deadline before download

- Process for status of incoming legal traffic (e.g. unread, opened, notification of deadline, transmitted to the client)

- Automatic filling of downloaded documents (including download receipt)

- Hash value verification

- Enabling download on behalf of another person

Direct download and storage of files without any additional steps

Other general suggestions

➡ Make sure, that through the API, the same **size of data** that is allowed to be transfered on Justitia.Swiss can be uploaded and downloaded through the software.

➡ Journaling of all the transactions on Justitia.Swiss (e.g.: 06.01.2025 – 09:34 – Lawyer XYZ has filed PDF document «*2025.01.06. Request for divorce*» and PDF document «*2025.01.06. Attachments to request for divorce*» ; 07.01.2025 – 09:00 – Secretary ZYX has opened and downloaded following documents «…»)

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Fédération Suisse des Avocats   Swiss Bar Association

Questions & discussion

?

Next Steps &
Questions

Monika

⌐ Get your own access to the TRAIN environment and developp your story

⌐ Website justitia.swiss

⌐ Newsletter for software producers

⌐ Webinars

⌐ Mails to info@justitia.swiss