



Draft

Projekt COVID Zertifikat



Master Presentation Technology & integration



Netiquette for this meeting

Identifizieren Sie sich bei Fragen

- Sprechende schalten Mikrofon ein
- Nichtsprechende schalten Videokamera und Mikrofon aus

Sprachen

- Deutsch / Französisch / Englisch

Fragen:

- Bitte die Hand heben und Frage formulieren

Identifiez-vous en cas de questions

- Les haut-parleurs allument le microphone
- Les non-parleurs éteignent la caméra vidéo et le microphone

Langues

- Allemand / Français / Anglais

Questions:

- Veuillez lever la main et formuler une question lorsque vous y êtes invité



Introduction COVID certificate

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What is a COVID certificate?

- The COVID certificate is a PDF document containing a **tamper-proof QRCode** and showing the information included in the QRCode
- 3 types of certificate can be delivered
 - Vaccination
 - Test (for negative test result)
 - Recovery (in case of proven previous infection)

In what form is the COVID certificate delivered and used?

- The tamper-proof element of the COVID certificate is the QRcode.
- This can be carried either as a PDF, which can be printed on paper, or in an app on the cell phone and thus presented. All forms in which the QR is transported are equivalents

Trustworthiness of COVID certificate and verification?

- The certificate must be issued by identified, authorized users (natural persons) in accordance with federal regulations
- Cantonal authorities and FOPH (BAG) determine the authorized users
- For verification of certificate, a valid identity proof must be presented

A certificate may only be delivered upon request

The COVID certificate is 100% compatible with the EU digital green pass





COVID certificate properties

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A COVID certificate can be obtained in three different situations

	Inoculated <i>Vaccination certificate</i>	Cured <i>Recovery certificate</i>	Tested <i>Test certificate</i>
Description	Issued if a person has been completely vaccinated	Issued if a person has been infected with Sars-CoV-2 and has been cured	Issued if a person has been tested negative
Criteria	These will be specified by Ordinance of the Federal Council		
Duration of validity	6 Months + 14 days after last vaccine	6 Months + 10 days after positive test	PCR: 72h after sample taken Antigen: Not yet clear if acceptable (EU)
CAVE	All business rules are subject to change		



Use case for holders: getting a COVID certificate

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As citizen, I want to obtain a COVID certificate

Inoculated
Vaccination certificate

Issued at point of
vaccination

Issued after previous
vaccination

Issued by authorized
user on the basis of
valid documentation

Cured
Recovery certificate

Issued after previous
proven illness

Issued by authorized
user on the basis of
valid documentation

Tested
Test certificate

Issued through
proven channels
triggered by
laboratory test



Use case for issuers: creating a COVID certificate

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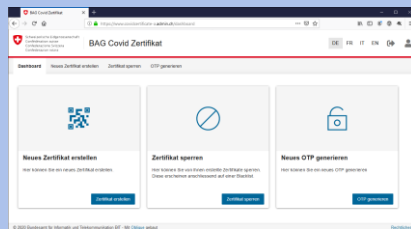
As authorized issuer, I want to create a COVID certificate

Inoculated
Vaccination certificate

Cured
Recovery certificate

Tested
Test certificate

Use of Web UI



Use of vaccine
platform

Use of healthcare,
lab, or pharmacy
system

Generation API

<http://www.COVIDcertificate.admin.ch/>



Use case for holders: holding a COVID certificate

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As citizen, I want to hold my COVID certificate in order to present it for verification if needed

Inoculated
Vaccination certificate

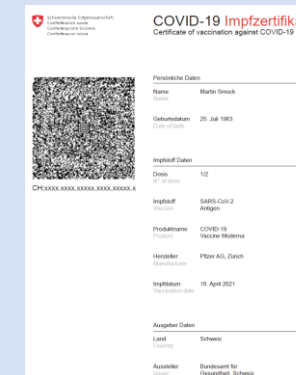
Cured
Recovery certificate

Tested
Test certificate

Scan in «COVID Cert» app



Print/store it as PDF





Use case for verifiers: verifying a COVID certificate

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As verifier, I want verify the validity of a presented COVID certificate

Inoculated
Vaccination certificate

Cured
Recovery certificate

Tested
Test certificate

Use of «COVID
Check» app

Use of other
compatible app

Use own system and
include verification
API

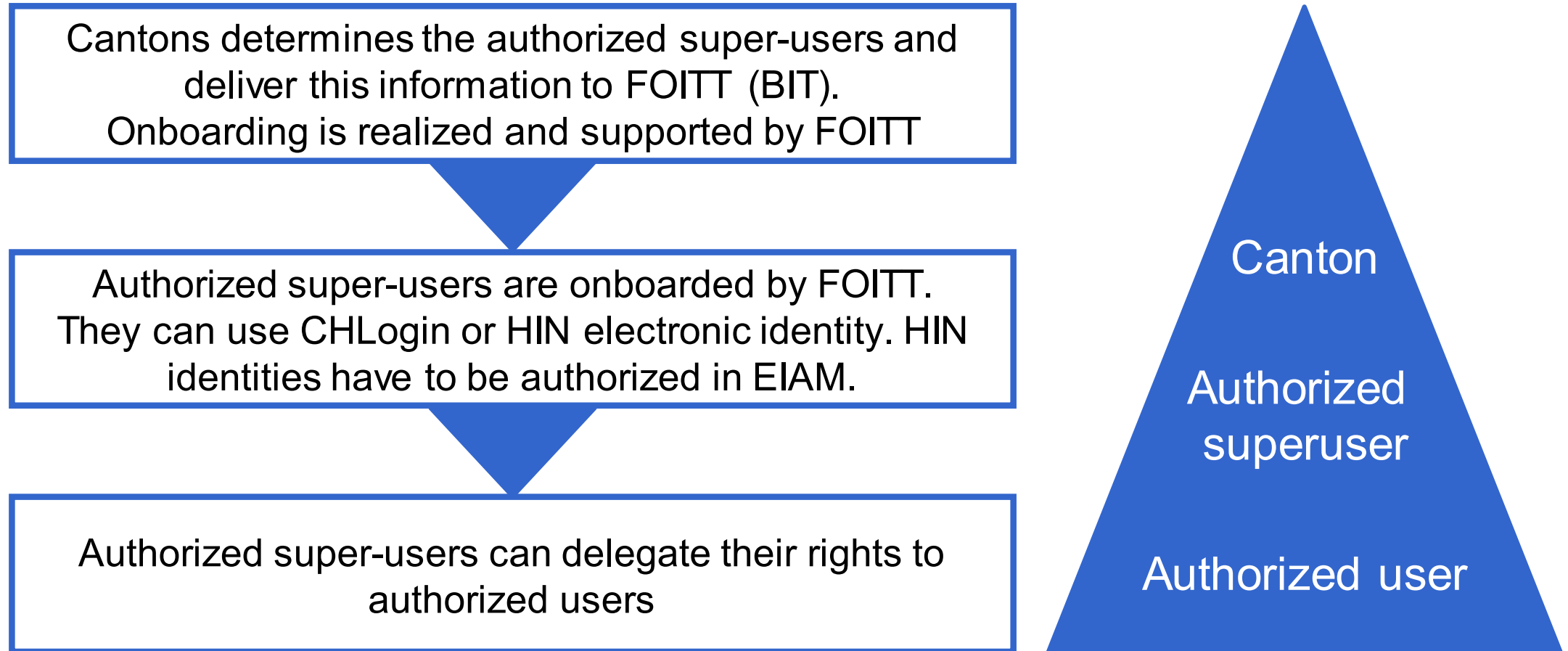


Verification API



How to onboard the authorized users ?

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Systems to make use of certificate

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Primary Systems to integrate Certificate

Issuer

Vaccination Platforms

Electronic Medical Record

Pharmacy Systems

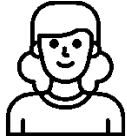
Laboratories

And many more...



COVID certificate services

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Citizen is vaccinated, negatively tested or has recovered

Service

Certificate Generation



COVID certificate contains wrong information

Service

Certificate Revocation



COVID certificate has to be verified

Service

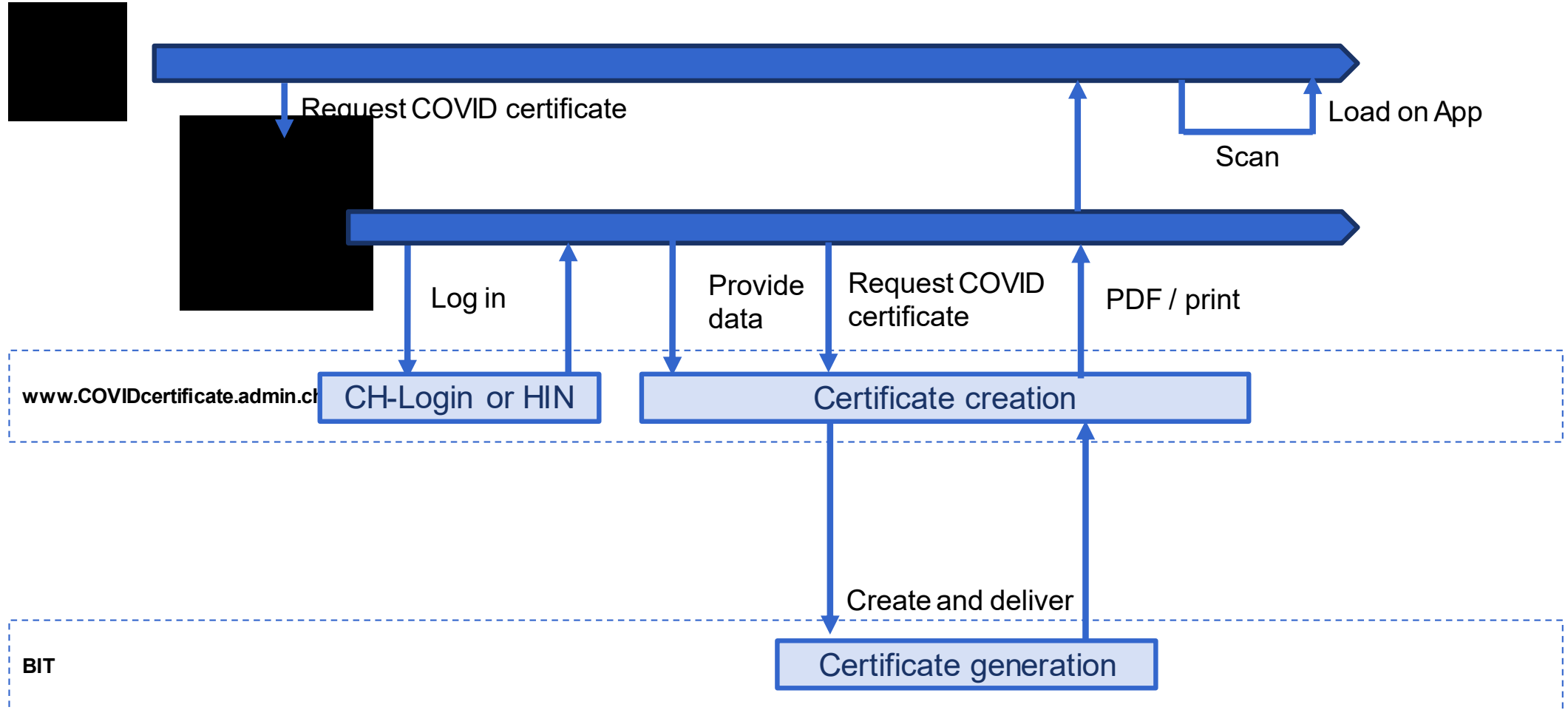
Certificate Verification



Howto create a COVID certificate ?

Use case Web-UI

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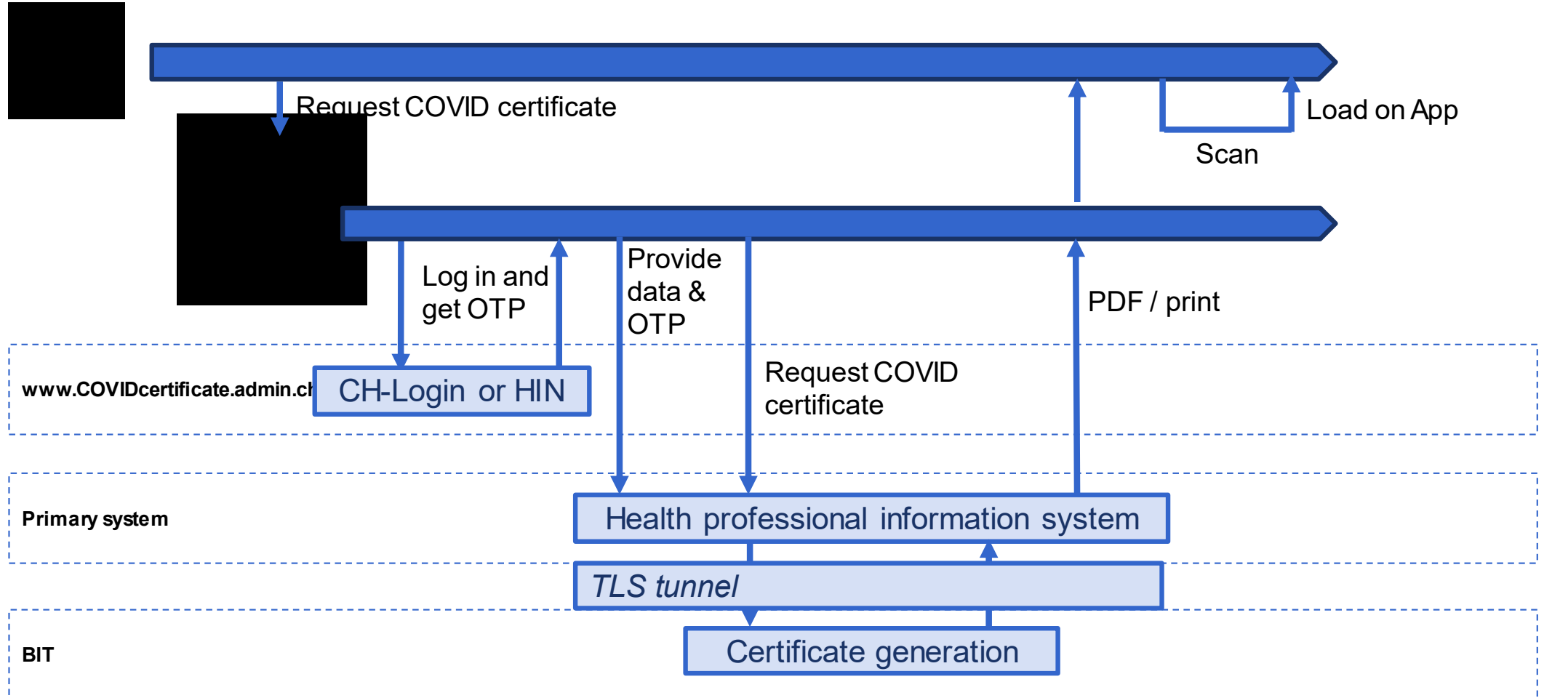




Howto create a COVID certificate ?

Use case primary system

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OTP = OneTimePassword = access authorization with limited validity

Demo

Questions (max 5)



Your way to get the generation and revocation API

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Registration

- By mail to Covid-Zertifikat@bag.admin.ch
- Use this also for other inquiries

Development

- Access all necessary information at Github: <https://github.com/admin-ch>
- You will receive a TLS test certificate of type «Swiss Gov Regular CA 01» from FOITT (BIT)
- With this you can access the test API

Contract

- Sign an agreement with FOITT. This is a condition for receiving the production TLS certificate

Cost

- There is no cost for using the API

Batch Processing

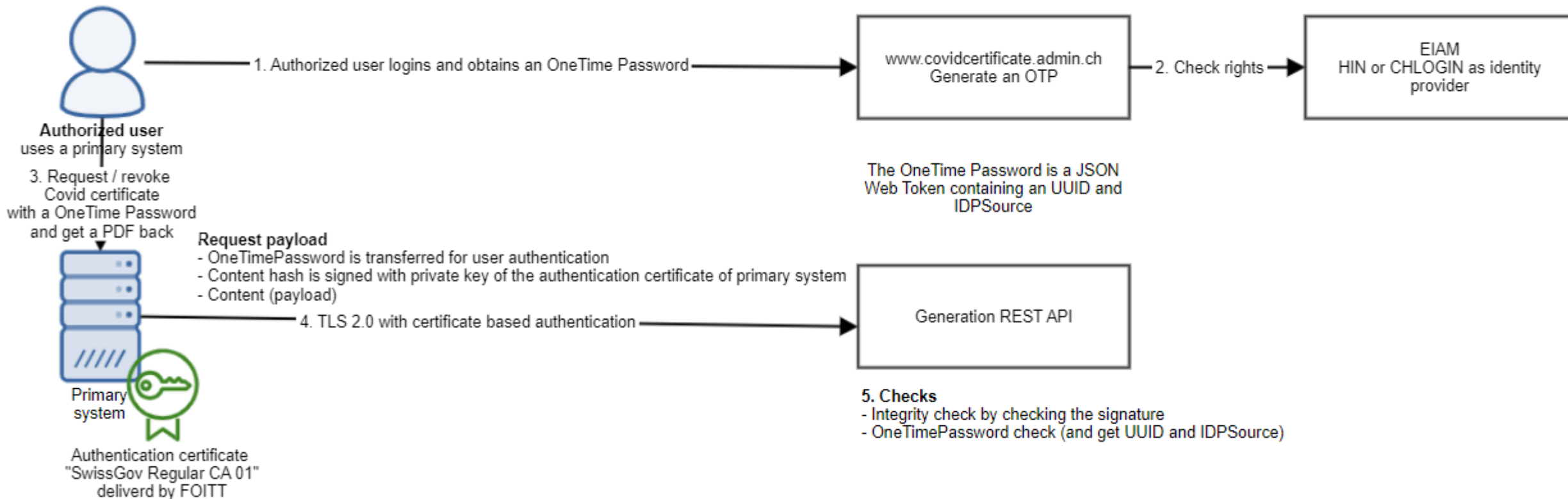
- This is not at the moment prohibited
- Do not send more than 2 requests per second

[Link](#)



Howto use the generation and revocation API ?

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[Link](#)



Specific challenges of cantons

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Onboarding of users

- Define authorized superusers who will be onboarded
- Authorized superusers can delegate authority to create certificates to authorized users
- Process needs to be established in canton

Integrate Services

- Integrate relevant service into systems
- Collaborate with system providers to create solutions

Provide for vaccinated & cured

- Develop solution for generating certificates for those previously inoculated or cured
- Collect and verify certificate requests from people vaccinated or cured
- Deliver certificates to requesting person



List of responsibilities (selection only)

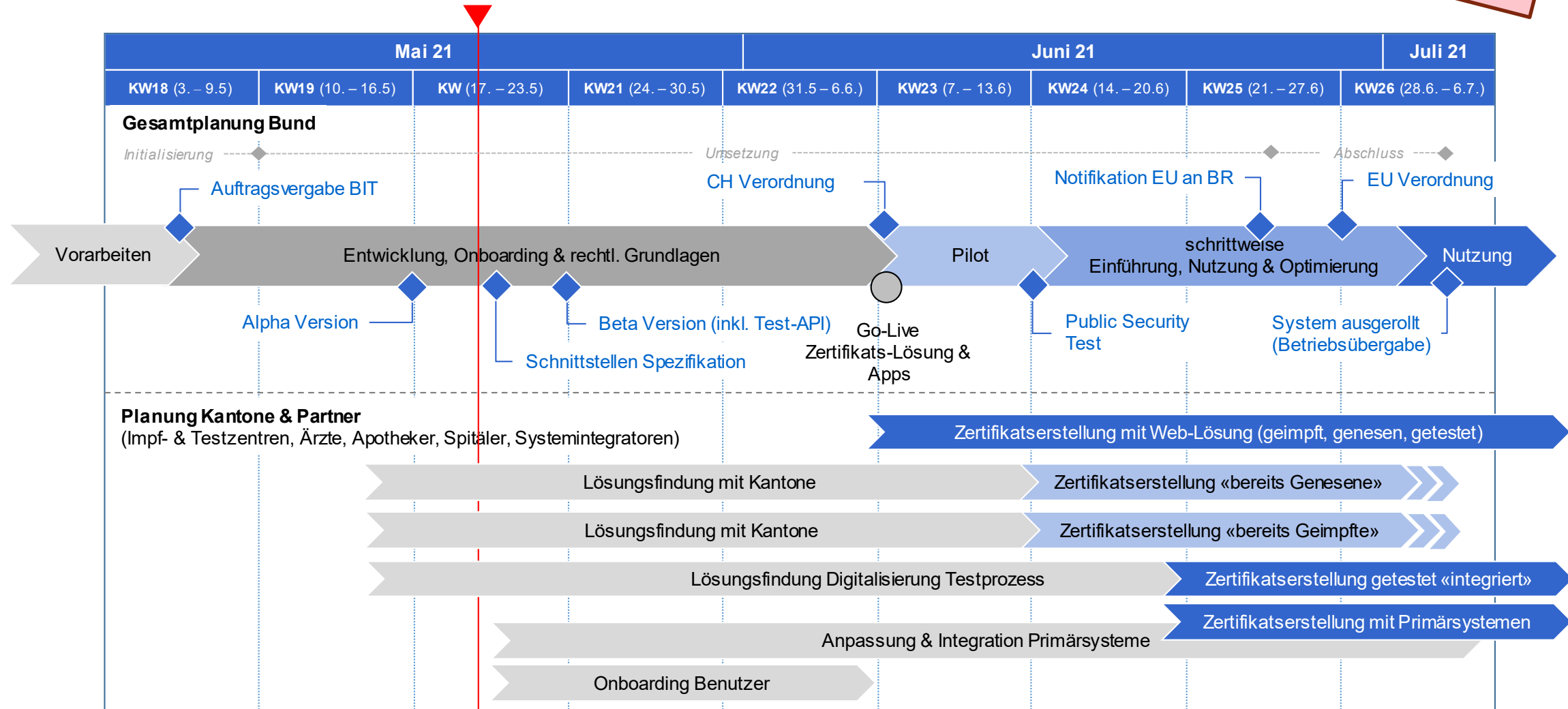
Draft

Bund	<ul style="list-style-type: none">• Provides 2 services (Web UI and API) that will create COVID certificates• Provides 2 services (Web UI and API) that will revoke COVID certificates• Provides the service that will verify COVID certificates• Provide two apps: holder app and verifier app• Onboard authorized users• Print certificates via BBL (under development)
Canton	<ul style="list-style-type: none">• Determine authorized users who are allowed to generate and deliver a COVID certificate• Develop solution for generating certificates for those previously inoculated or cured
Issuers Verifiers	<ul style="list-style-type: none">• Adapt their systems in collaboration with system providers to integrate services• Adapt their processes to integrate creation or verification of certificates• Issue certificates or verify certificates
Primary Systems	<ul style="list-style-type: none">• Adapt their systems to include certificate generation or revocation• Collaborate with their customers to help them include certificate generation or revocation in their processes



Roadmap «Covid Zertifikat»

Subject to change



The road from here...

Weekly presentations & discussions

Thursdays, 10:00 – 11:30

27.05 until 24.06.

[Link on Github](#)

Will also be mailed to the list of registered parties

Write to: Covid-Zertifikat@bag.admin.ch