



Smart.

Secure.

Shareable.

Aviation Information.







*** "passports" .or aviation





ATIEC 2021

Smart.

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Enhance security of information exchanges

Aviation Trust Framework

Common service reducing costs





Part of EC 2021/116 (Common Project1)





Why a European aviation PKI?





Specific ...

But based on Commercial Off the Shelf solution

Certificate Interoperability Recognised by other European & Global trusted parties

Aviation specific PKI configuration Aviation PKI standards, safety

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Dedicated to Aviation Users only Best practice to limit cross-domain cyber threats

State of the Art Solution

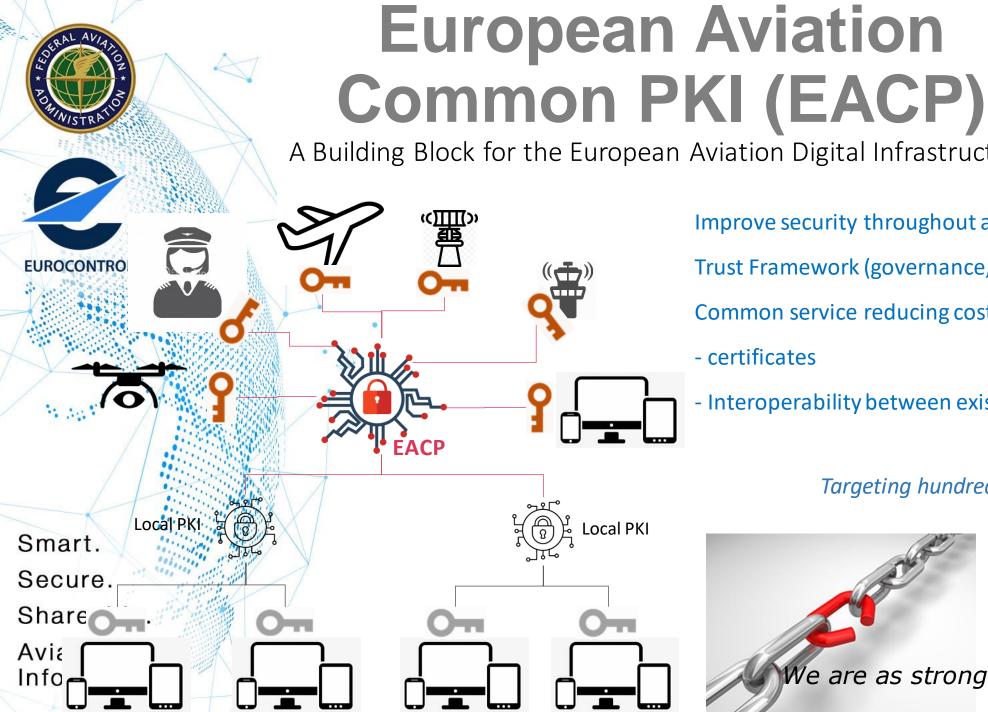
TimeStamping, Signing, Validation, Automation, **Authorisation**

Offload users of PKI deployment pain

Delegate design, implementation & day-to-day operations

Financially Attractive

Common Service for all Aviation Stakeholders Public funding - tbc





A Building Block for the European Aviation Digital Infrastructure

Improve security throughout aviation value chain

Trust Framework (governance, policies, procedures)

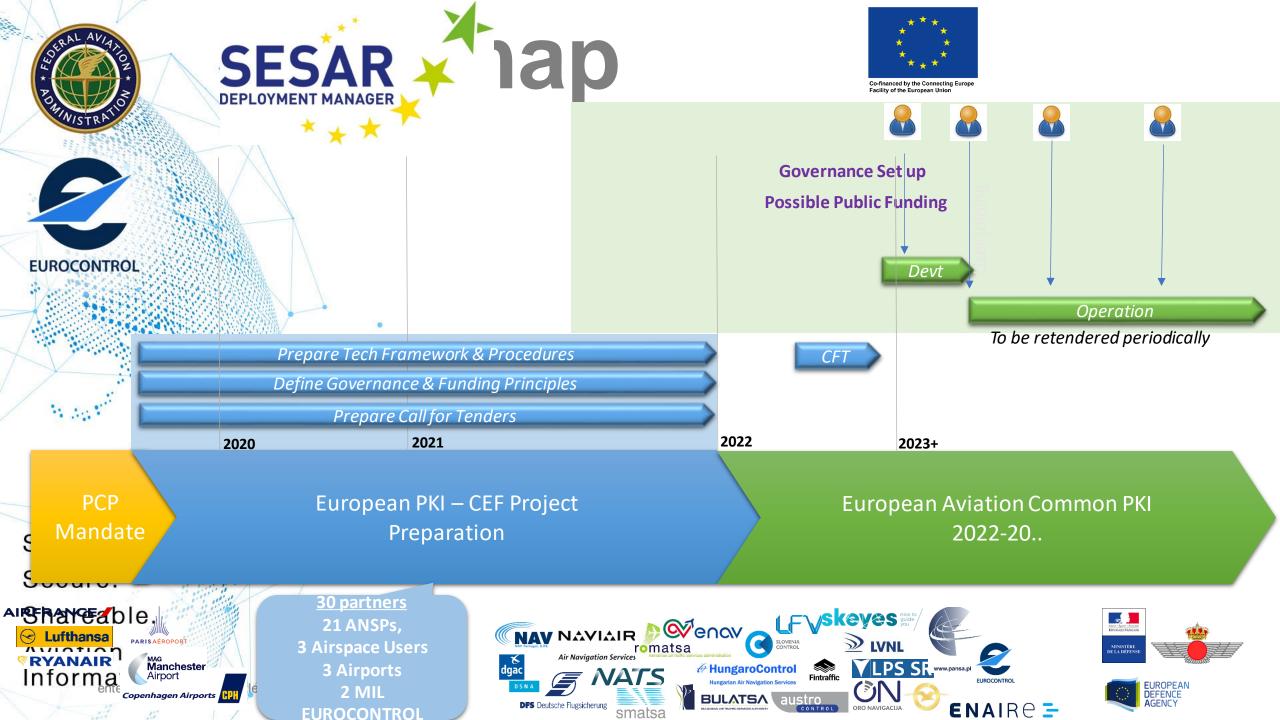
Common service reducing costs & providing:

- certificates
- Interoperability between existing PKI

Targeting hundreds of users



We are as strong as the weakest link











Product portfolio

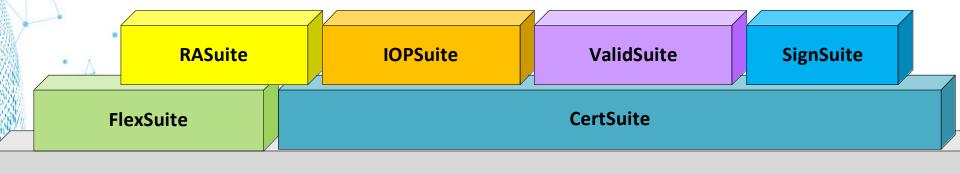
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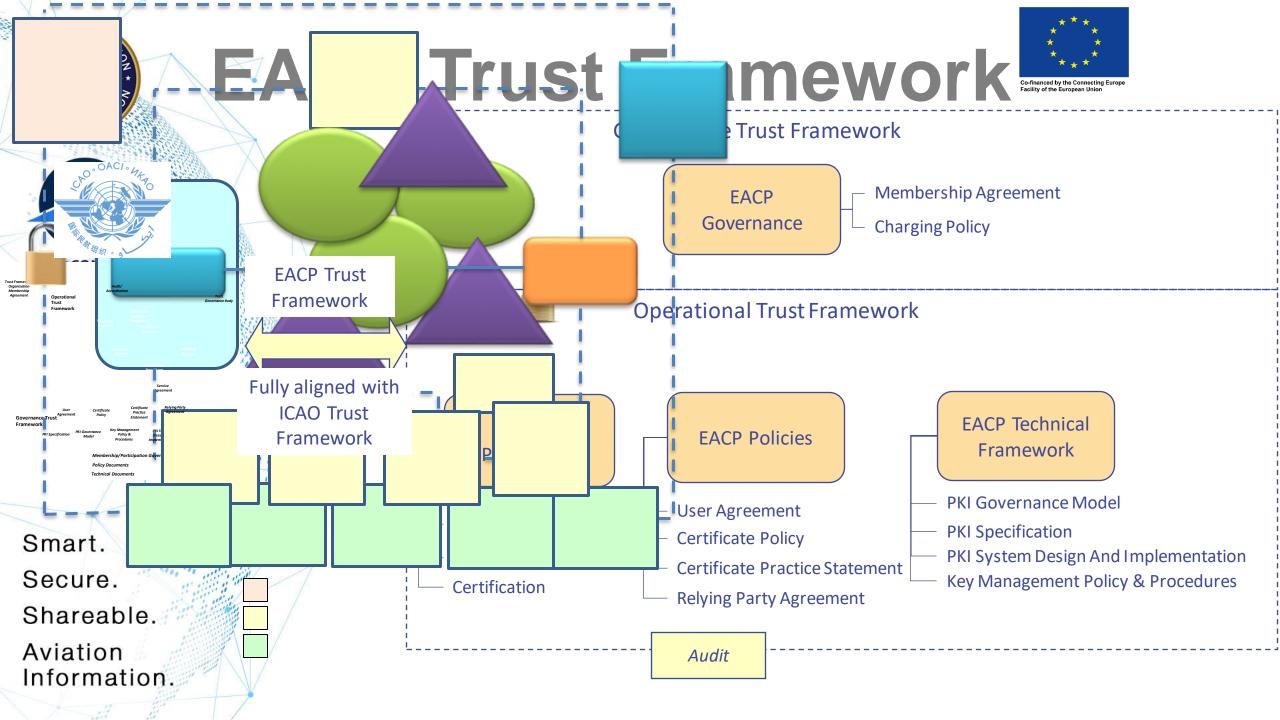
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European Aviation Common PKI Product Portfolio



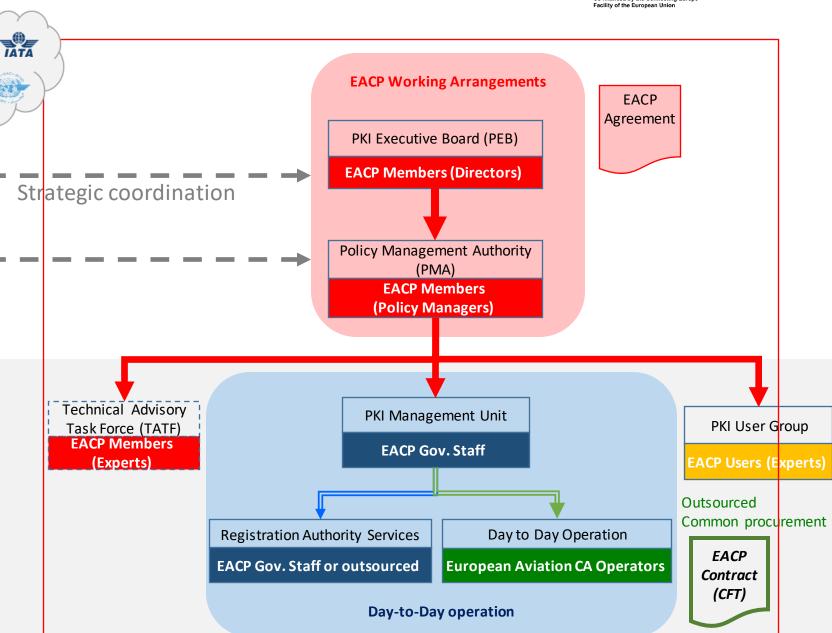


Draft governance





Operation Level





Membership & charging





€ Pay Membership

€ Fee commensurate to use

Governance

Establish the service Fund the common procurement & set-up Decide on Policy, Charging, Strategy

Services











Services

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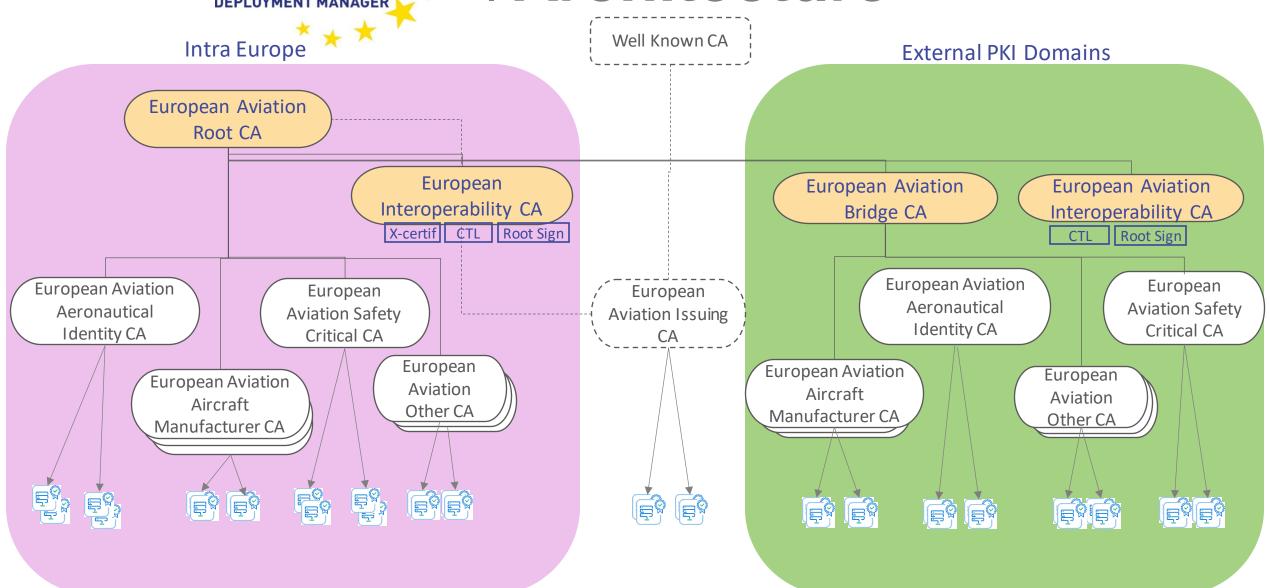
EACP User

Criteria to be trusted





| Architecture





Global Interoperability



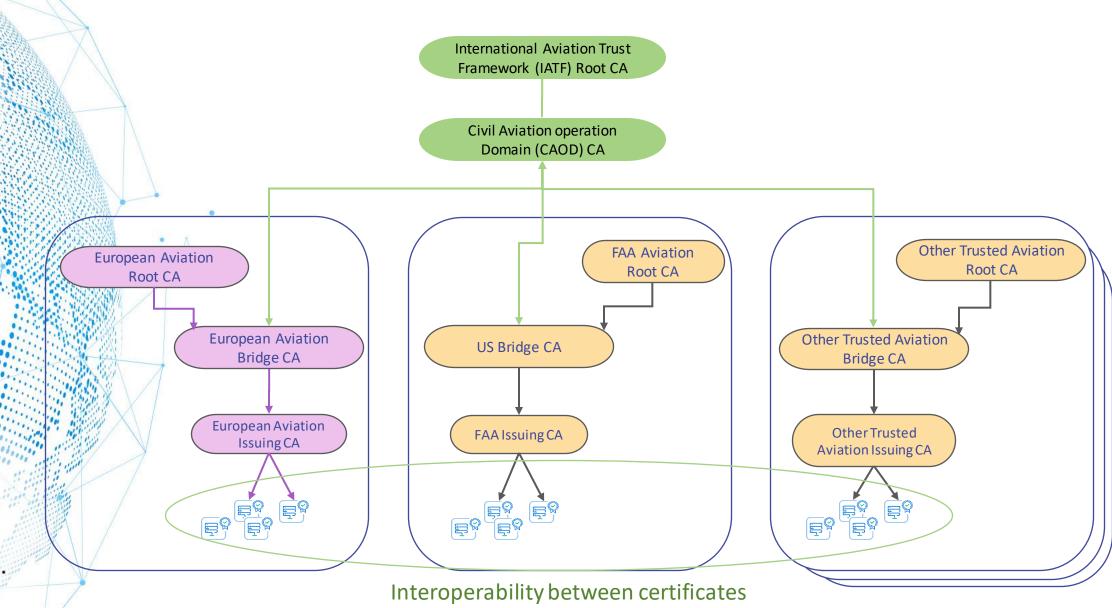




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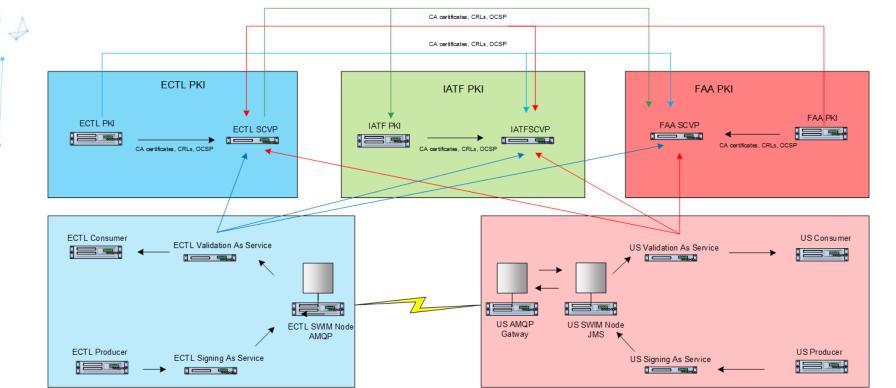






• Technical:

- Global interoperability of various solutions
- Tests between FAA and EUROCONTROL



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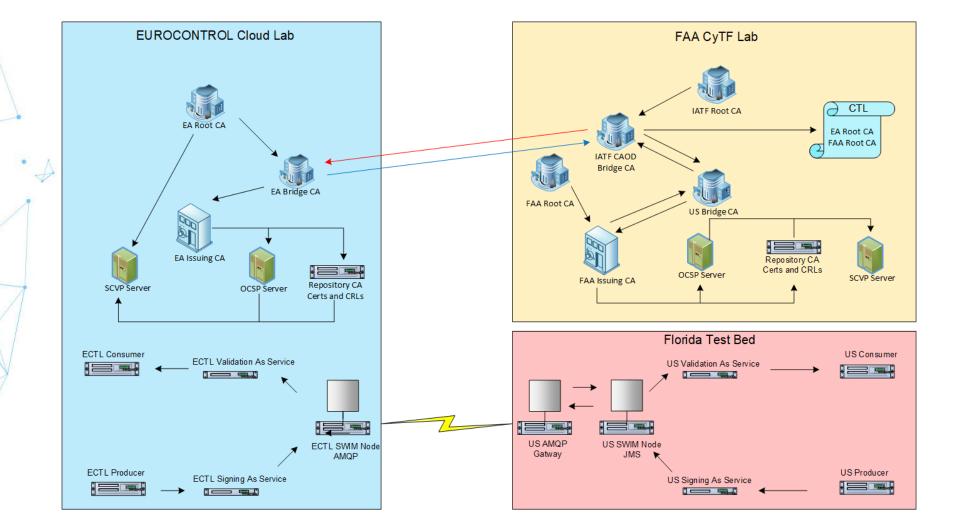
SPHOC Overview



Co-financed by the Connecting Europe Facility of the European Union



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Use cases







Client/Server

AMHS

A-CDM

SWIM Registry

VoIP

Aircraft

A/C Software upload Maintenance records

SWIM

NM B2B

Remote TWRs

SWIM

Proof of identity

AIM/AIP

MET

Remote sensors

CNS Surveillance

CNS

SBAS

Future Datalink

Object Signing

Proof of origin

SWIM

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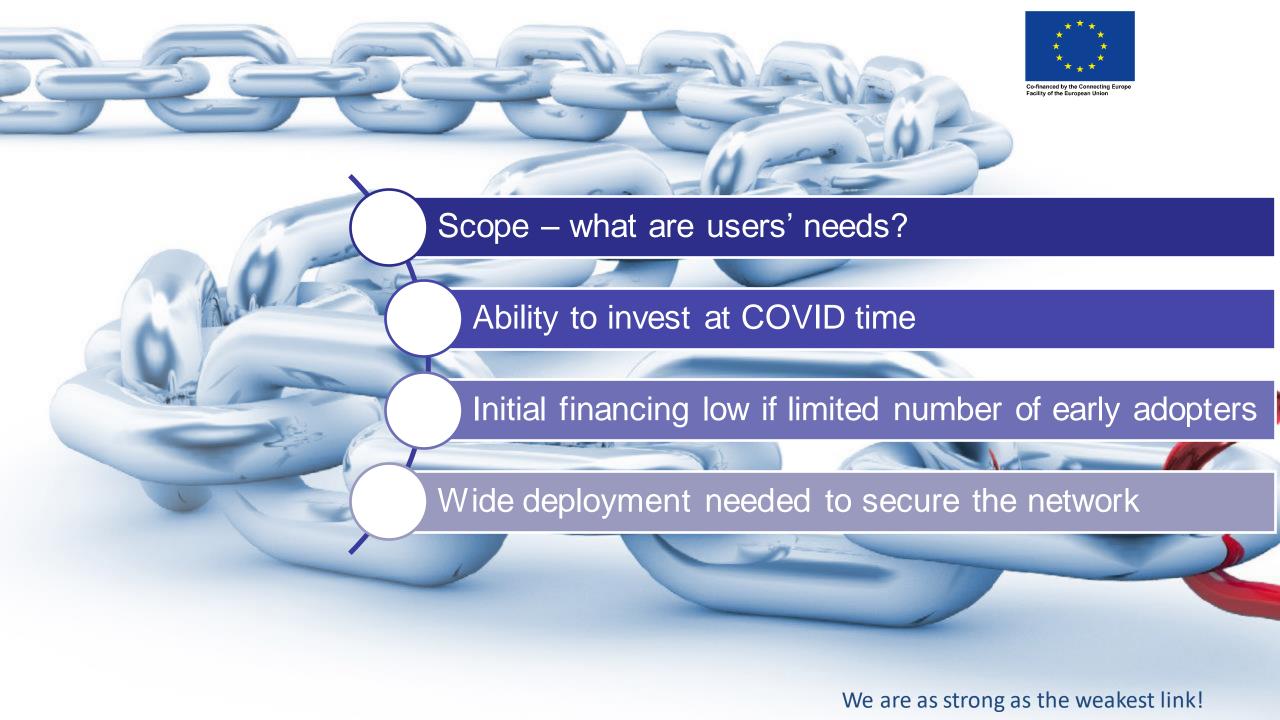
Aviation Information. **Personal Certificate**

EFB

Pilot License

Badge







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