

Common PKI Implementation in Aviation

ATIEC 2023

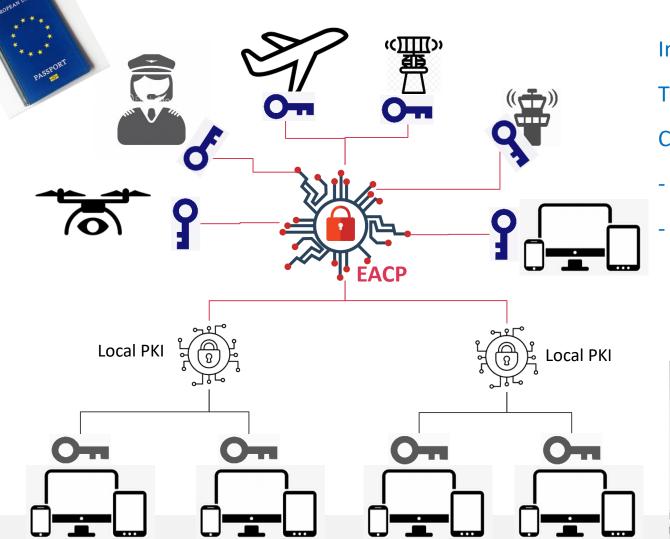
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European Aviation Common PKI (EACP) A Building Block for the European Aviation Digital Infrastructure



Improve security throughout aviation value chain Trust Framework (governance, policies, procedures) Common service reducing costs & providing: - certificates

- Interoperability between existing PKI





We are as strong as the weakest link

EACP





Two-track approach:

Initial Solution (current needs)
Target Solution (future needs)



Approach supported by NDTECH/8

~40 Dols received

EACP Initial Solution - Track1







Commercial off the shelf PKI

Steering by users under existing working arrangements (subset of CYBERG)



Means to comply with CP1 on time

Interoperability and reduced cost

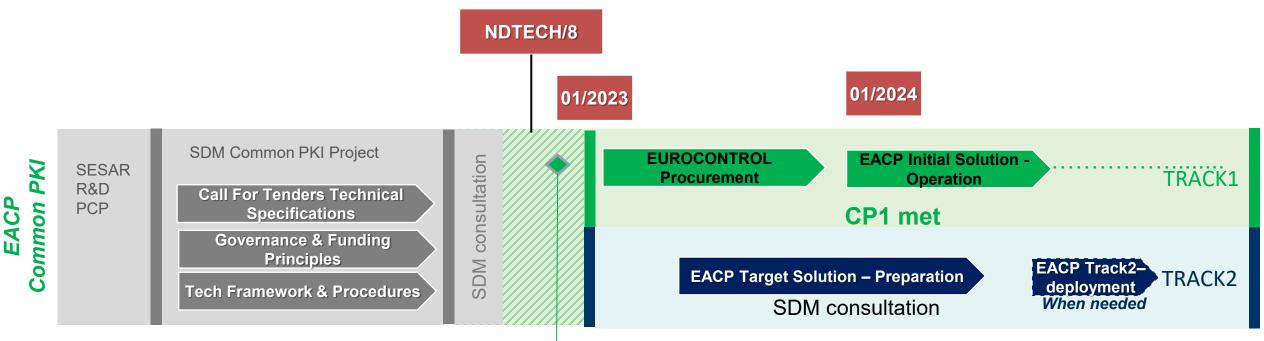
Learning from Initial Solution for further development





EUROCONTROL Procurement 2023	Estimated cost (/cert/y)
EUROCONTROL use ~4.000 certs	~275€
Open to others to join to achieve economies of scale Voluntary	
+ 6.000 certs	~200 €
+16.000 certs	~100€

EACP Procurement of a common service Timeline - summary



Declaration of Interest Who wants to benefit from Initial Solution? Open to all aviation stakeholders: ANSPs Airports Airlines Manufacturers CAAs...







France - Groupe ADP France - Nice Switzerland - Zurich **UK – Manchester Airport Group**

🖌 Airlines 🔶 France – Air Caraïbes

MET 🎦 Cyprus Finland Germany Poland Spain **Switzerland**

Thales



Italics: contribute to steering EACP



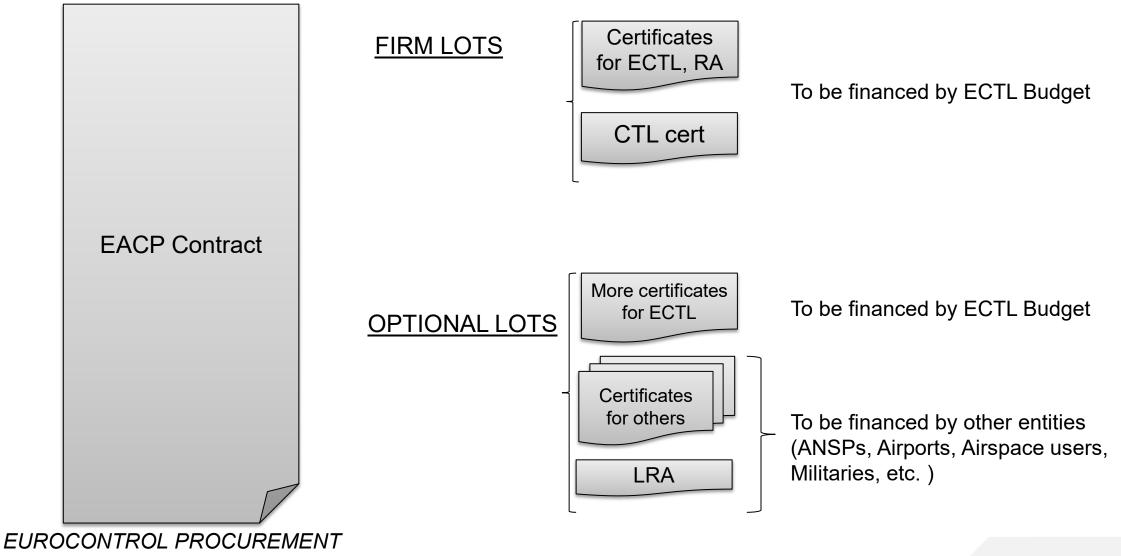
ANSPs



Belgium - skeyes Bulgaria - BULATSA **Croatia - Crocontrol** Czech republic – ANS-CZ Estonia – EANS **Finland - FINTRAFFIC** France - DSNA Germany – DFS **Greece – HANSA** Ireland - IAA Italy - ENAV Latvia – LGS Moldova - MOLDATSA **Netherlands - LVNL Norway - AVINOR Poland - PANSA** Romania – ROMATSA Serbia & Montenegro - SMATSA Slovakia – LPS.SR Slovenia - SloveniaControl Spain – ENAIRE Sweden - LFV Switzerland - skyguide Türkiye - DHMI **UK - NATS**

EACP Scope of the contract

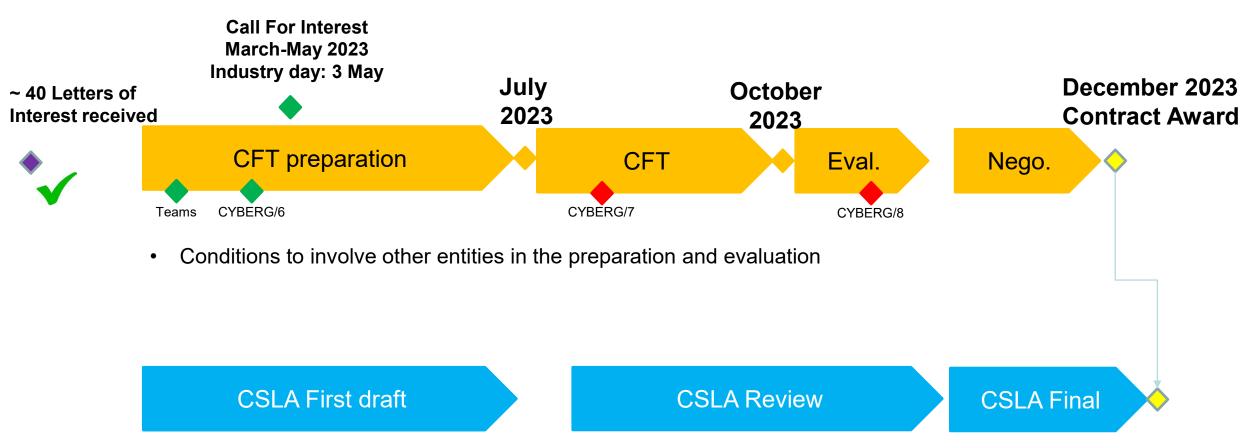




EUROCONTROL CONTRACT

EACP Procurement Roadmap





- Payment mechanisms for other parties benefiting from the contract
- Governance rules
- Liabilities / responsibilities



THANK YOU

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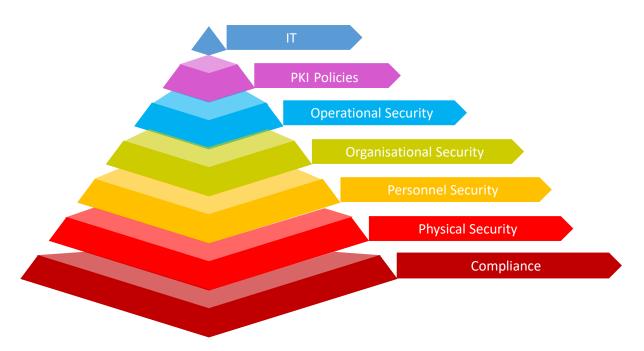
SUPPORTING EUROPEAN AVIATION



Interop criteria – local PKI



- Criteria for interop defined:
 - D1.2 Annex A3.d
 - Assessment framework & procedures
 - Acceptable proof of compliance to be refined
 - If Local PKIs already exist, an initial "pre-assessment" can be done now





Local PKI docs

- 1) CP and CPS
- 2) PKI Specification and architecture
- 3) PKI Processes and Procedures
- 4) CA Key Management policy and procedures
- 5) PKI Governance structure
- 6) PKI term of use and agreements