

ESCP High Level Meeting on Cybersecurity

*Panel 1: The Political Dimension of Cybersecurity in
Aviation in Europe*

“Politics is the art of realities” (Ch De Gaulle)

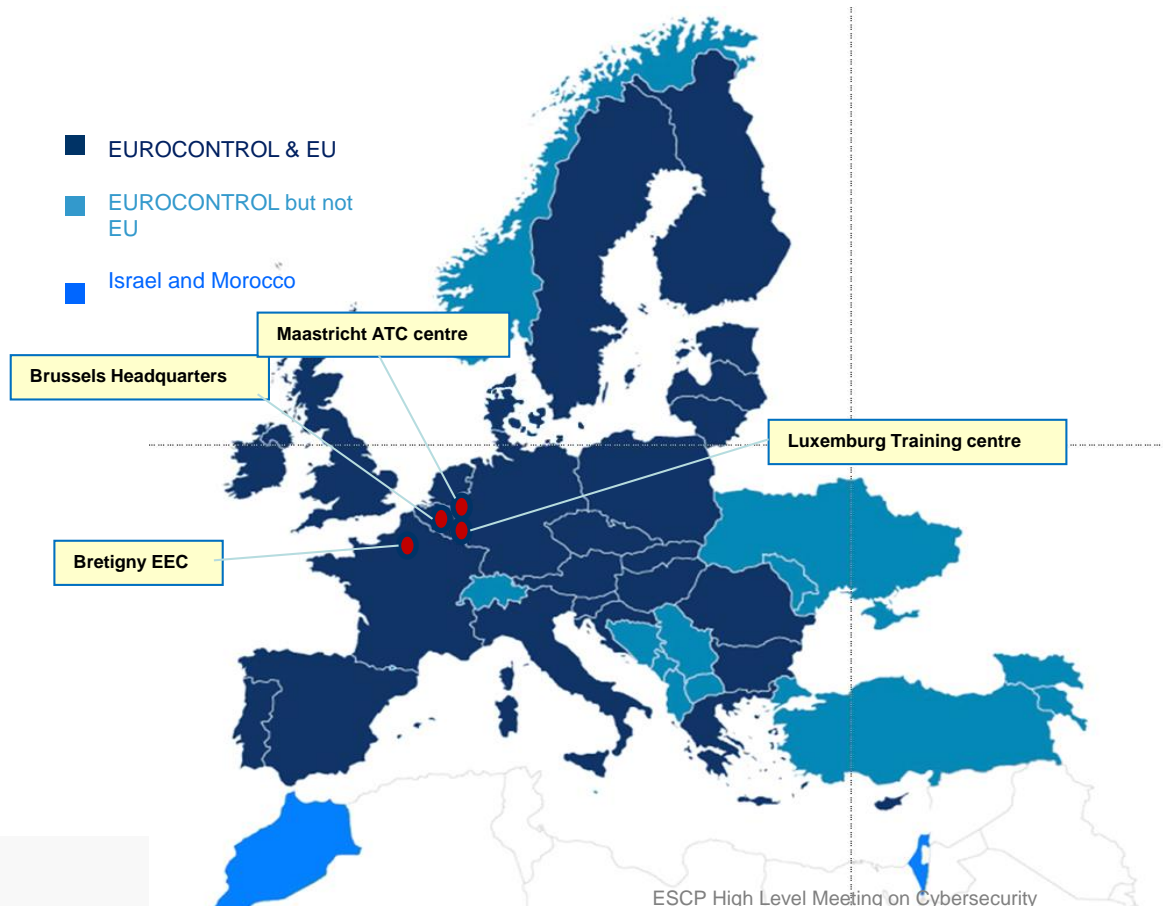
Philippe MERLO

Director DECMA

14/11/2018



EUROCONTROL Today 41 + 2 Member States



Our missions :

- Maastricht ATC centre
- Network Manager
- Financing/Route charging
- ATM perf. assessment
- ATM R&D centre

European ATM Network :

- 43 States (41+2)
- 68 en-route centres
- 520 Airports
- 1940 Aircraft Operators

Our Resources :

- ~1800 staff
- ~700 M€ budget

Supporting States & EC for European ATM



Interoperability needed on aviation cybersecurity strategies

Key cooperation with EASA

EUROCONTROL: bridge between EC/41 Members States

ATM Civil/military cyber-security

Ensuring a global approach – Trust Framework



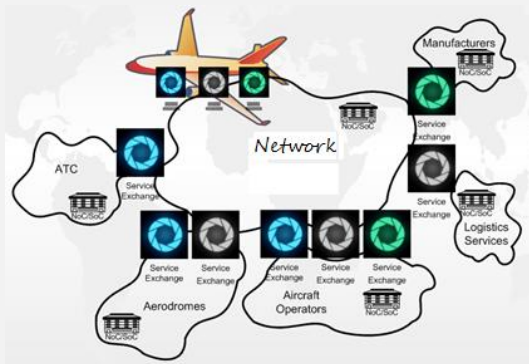
Security by design



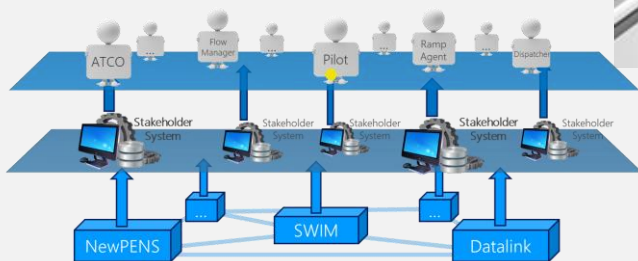
Are we doing enough
to secure future aviation
systems/services?



No State/Stakeholder left behind



ICAO/ACORNS

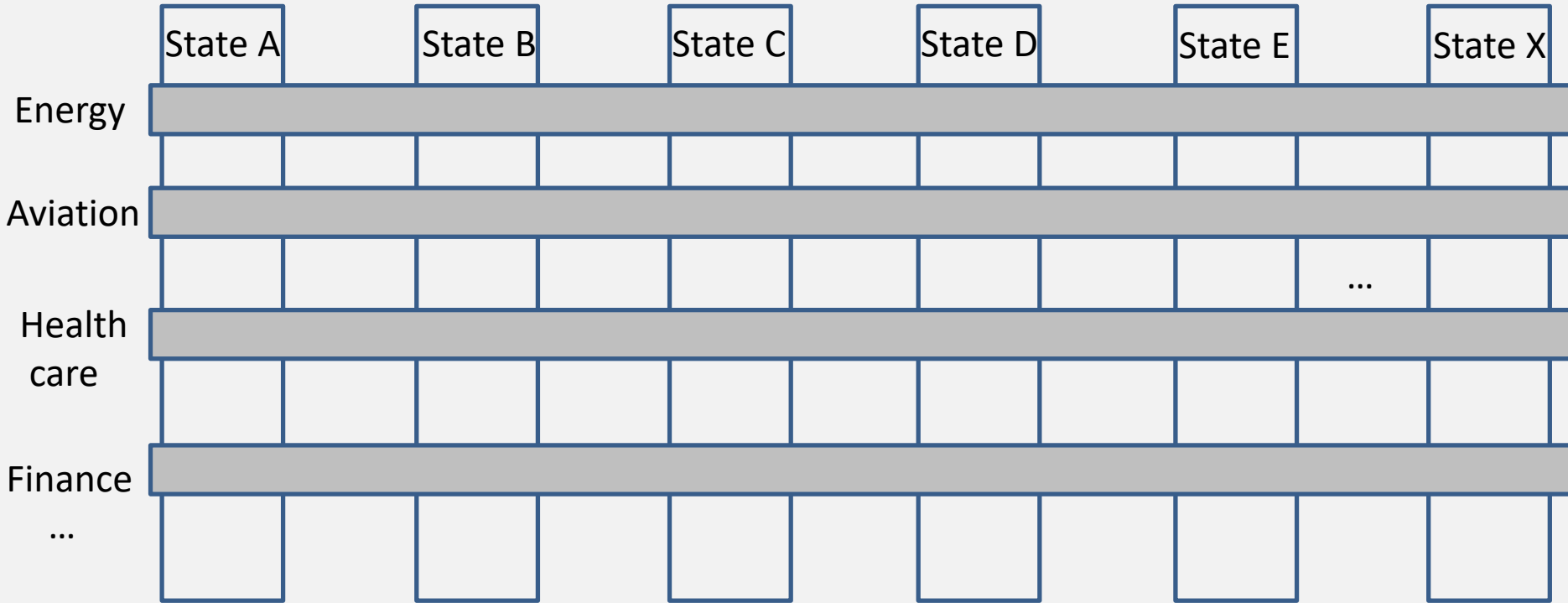


SDB

Cybersecurity services are effective if all stakeholders adopt them, not only some.

Common Trust Framework with multiple levels

National **AND** Pan-European



Step by step

- Provide cyber services to the European aviation community
 - EUROCONTROL/IANS cyber training courses
 - SDM/SWIM Common PKI
 - EASA/ECCSA
 - EA-ISAC
 - EUROCONTROL/EATM-CERT initial set of services
 - NewPENS
 - SES Digital Backbone
 - ICAO/ACORNS
 - EACCC

Examples - Initial set of services

1. Penetration test of environment where EUROCONTROL products are implemented => generic lessons learned shared with all
2. Fighting bank transfer fraud
3. Credentials leaks detection
4. Information leaks detection
5. Cyber Threat Intelligence and feeds for aviation
6. Joint Quarterly cyber threat landscape report for Stakeholder's Senior Management, National CERTs, CAAs

EATM-CERT

European Air Traffic Management
Computer Emergency Response Team



ECCSA
European Centre for Cyber Security in Aviation
Supported by EASA

Conclusion

- Cybersecurity in aviation – a long process that requires some political decisions ... But not only :
 - Not a technology only issue: management, culture, human, procedures
 - Security by design
 - Building trust amongst Stakeholders
 - Trust Framework with multiple levels
 - Reconcile Global - European - National approaches
 - Pragmatic approach – start with initial set of services

All together

THANK YOU