



Network Manager
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the European Commission



Technical Resources - Automation European AIS Database (EAD)

Workshop for the development of AIS management and oversight for
Civil Aviation Authorities (CAA) and Air Navigation Service Providers
(ANSPs)

31 July – 4 August 2017
Dakar

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History

Creation of EAD

PC approval:

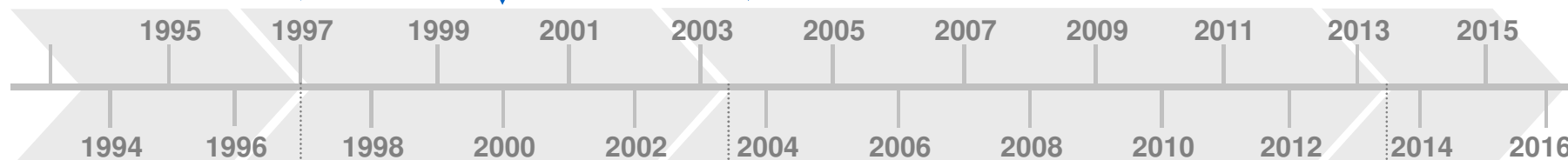
Approval EAD
concept and
Start CFT

PC Decision 83:

Creation of EAD &
Operating EAD

PC Decision 101 - Directive 03/62:

Service Charge Policy & Client agreement



Feasibility

Development

Operations



Feasibility study

Creation of
EAD concept

Call
for Tender

System Development
& Service Development

Service Provision
DOP-TRG-ITP

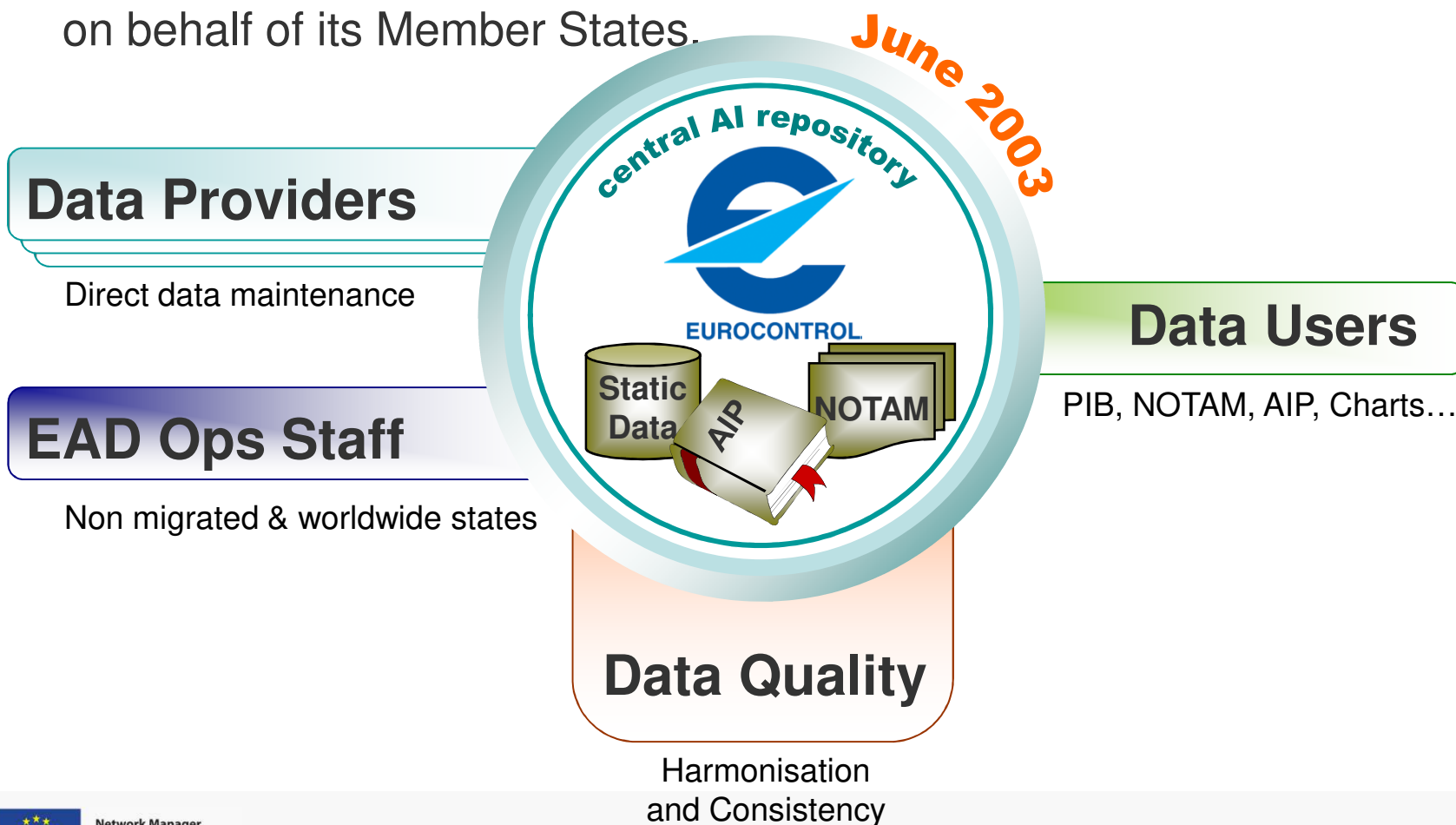
SW maintenance &
Evolution



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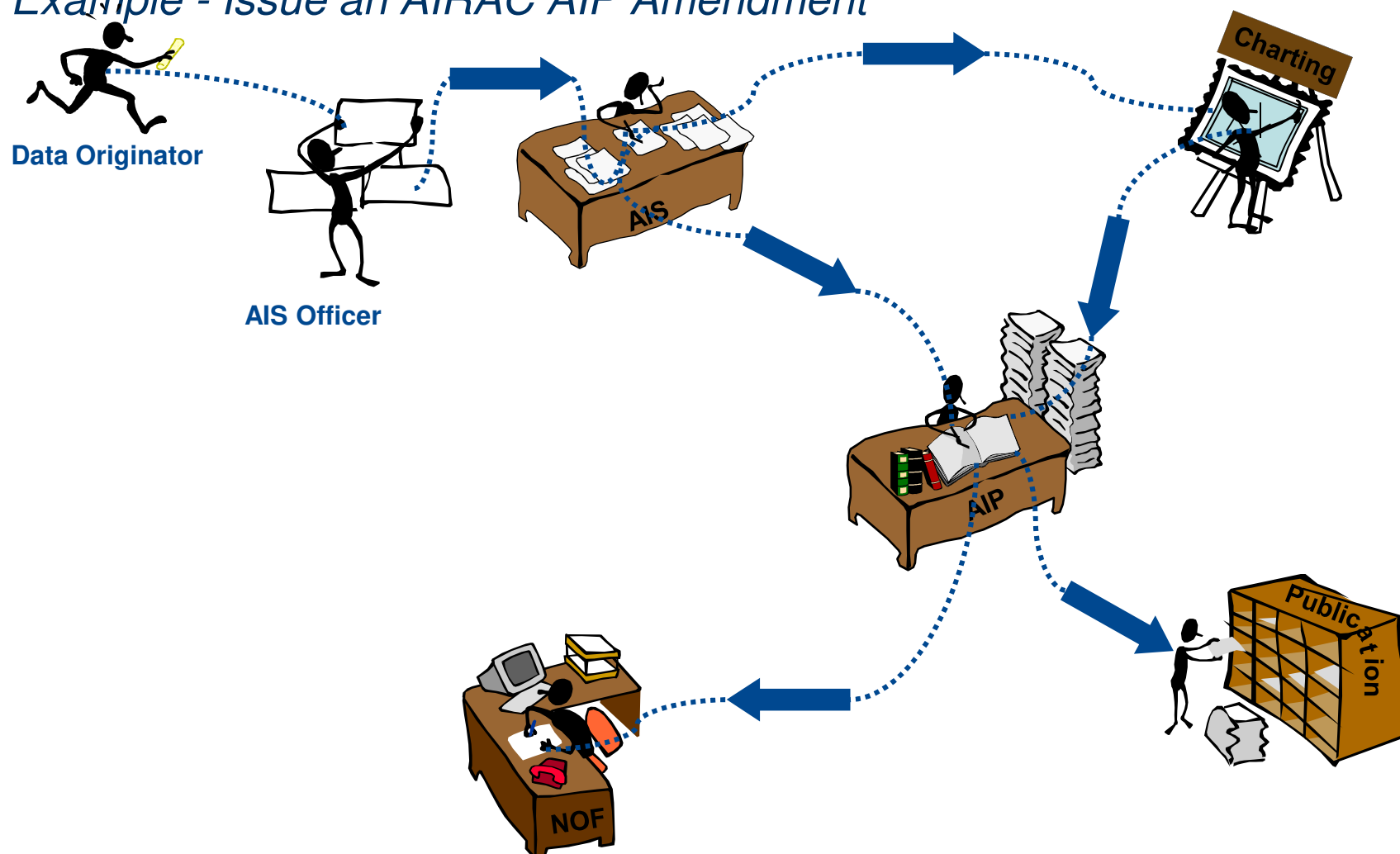
Concept of EAD

- EAD is a central service provided and owned by EUROCONTROL on behalf of its Member States.

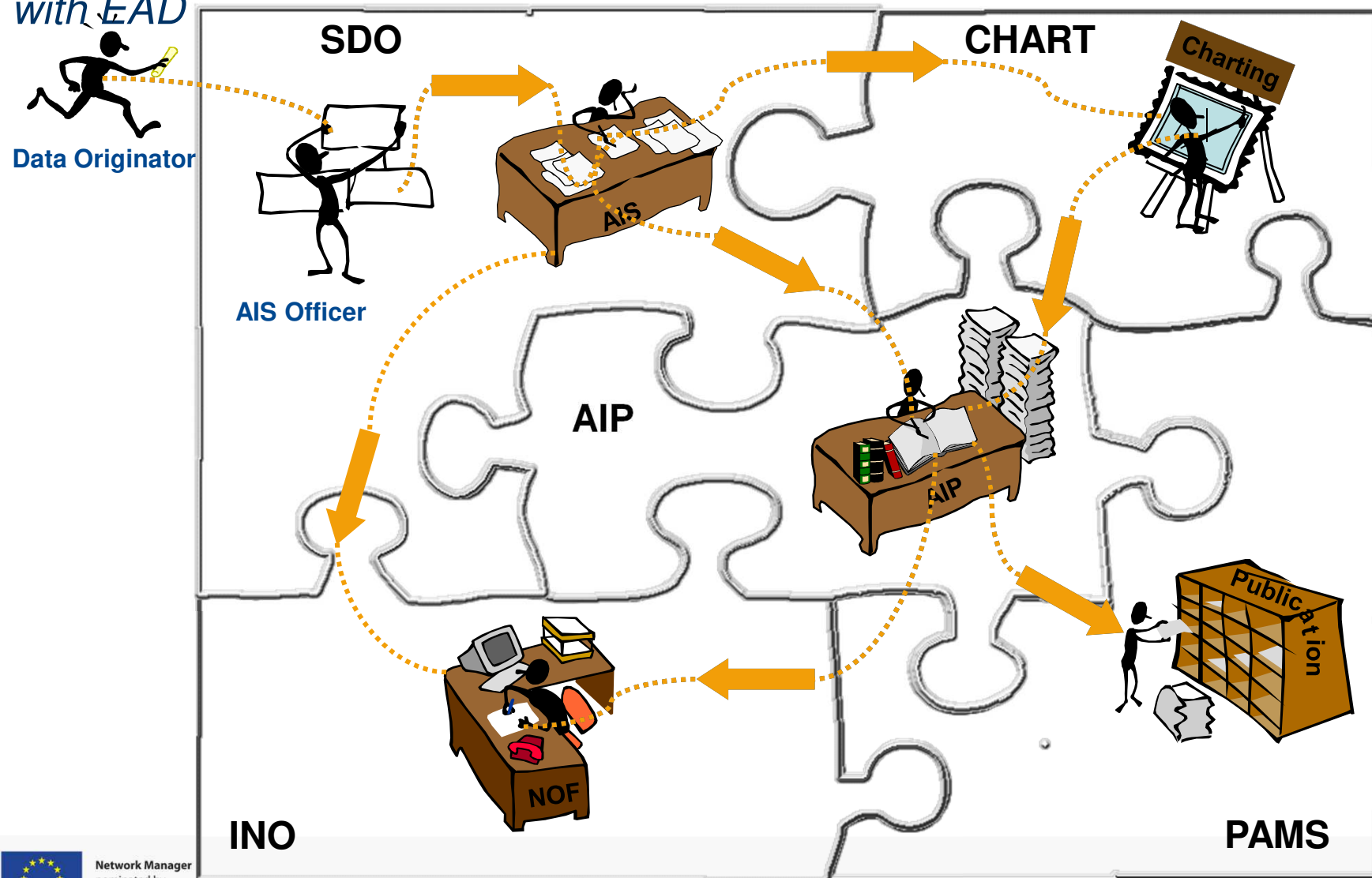


AIS Process

Example - Issue an AIRAC AIP Amendment



AIS Process with EAD



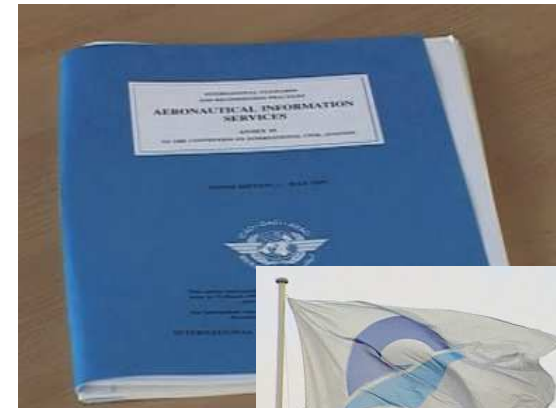
Objectives

- Increase the level of service of the overall AIS in the EUR region:
 - Migrate of AIS/AIM Service Providers of European States to EAD
- Provide access to worldwide aeronautical data
- Provide consistent, up-to-date and complete collection of aeronautical information
- Decrease overall cost for provision of aeronautical information within EUR



Objectives

- Based on:
 - ICAO, EUROCONTROL Recommendations
 - Annex 15, OPADD, SDP, AICM/AIXM
 - European Commission
 - Aeronautical Data Quality (ADQ) IR
- Service Availability
 - 7/7d 24/24h, Service Desk
- Data consistency and completeness
 - Validation rules / Data Harmonisation
 - Coordination of cross border conflict resolution
- Safety Case (ESARR compliance) , ISO , *EASA certification*
- Evolution according to SES, SESAR, etc.

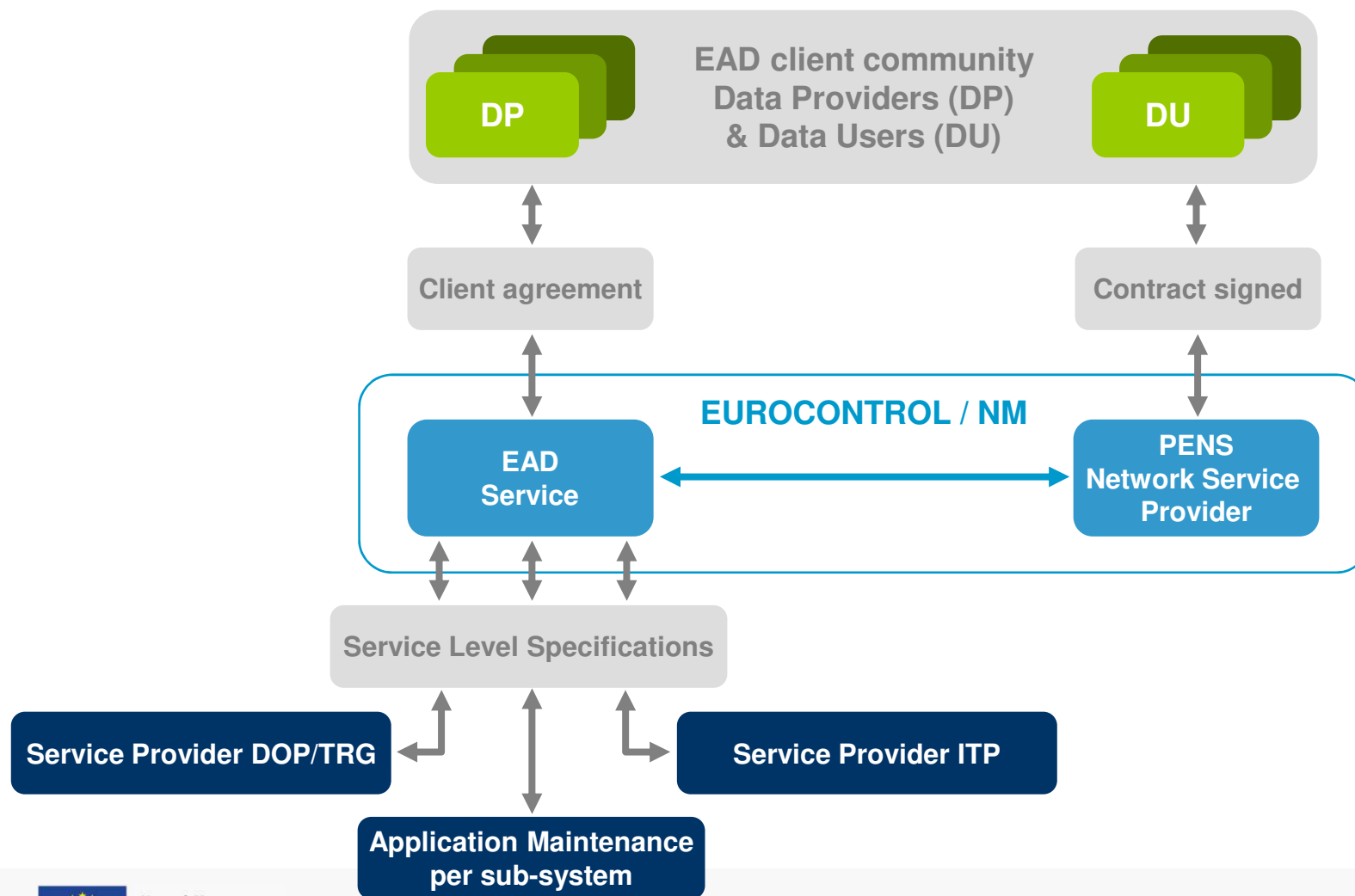


Principles

- Implementation by EUROCONTROL of a system/service for AIS Providers supporting the delivery of AIS Services as defined by ICAO Annex 15
- EUROCONTROL operates and manages EAD on behalf of its Member States
- States remain responsible for providing their AIS Service and the information to be published
- Provision of the EAD IT, Data Operations and Training services are outsourced to private Service Provider Companies or consortium after open Call for Tender (CFT)

EAD Business Model

Contractual Relation



EAD Service Provider contract

ITP – DOP - TRG

- Provision of IT, Data Operations, and Training is performed by external service providers (outsourcing) via Call for Tender process
- Objectives of the Call for Tender :
 - Benefit from state of the art technology from industries, and
 - Open competition to get the best operational services for the cheapest price.
- EUROCONTROL shall ensure that the Service is rendered satisfactorily, in accordance with appropriate and agreed Service Level Specifications(SLS)
- Service provision contracts together with the SLS represent the tool through which the quality of the service can be monitored.

EAD Service Provider contract

ITP – DOP - TRG

- *Performance based contract:*
 - *Definition of Key Performance Indicators (KPI) for each service allow to monitor the performance associated to each service*
 - *KPIs associated to the different services are subject to bonus-malus factors*
 - *Monthly reports are delivered to EUROCONTROL for review and approval.*
 - *Payment schema is driven by the bonus-malus principle and the volume coefficient*
- *Limited time contract:*
 - *As service provision contracts resulting from call for tender process are valid for a period from 5 to 8 years maximum,*
 - *A transition and hand-over periods is specified in order to manage the possible change of service provider*
 - *Service Provider shall assist EUROCONTROL in order to hand-over all or part of the services to the new Service Provider*

Challenges

- EAD System/Service
 - Centralised service - Outsourcing model
 - Ensure adequate quality and performance for all EAD services (data operations, IT, and training) provided by Service Provider companies
 - SLS, KPI, performance monitoring, bonus-malus
 - Services (DOP / ITP) and application software evolution according to:
 - User expectations, ICAO, EC IR, etc.
 - Capacity, performance, etc.
- User Relation
 - Migration of Data Providers:
 - All ECAC area AISP, and additional world-wide States
 - Migration of Data Users:
 - Airlines, airports, commercials, SW developers, Education, etc.

Challenges

- Contribute to European ATM delivery in accordance to key performance areas of safety, capacity and flight efficiency
 - Availability of harmonised/complete/accurate AI contributing to success of NM functions
 - In future, Expansion of SES to adjacent States bordering European airspaces
 - Middle East Ai Database
 - South Africa,
 - Canada, etc.
- 
- A green silhouette map of Europe and its surrounding regions. A blue circle with a white border is positioned over Canada, with a blue arrow pointing from the text 'Canada' to it. A blue circle with a white border is positioned over the Middle East region, with a blue arrow pointing from the text 'EAD' to it.



Thank You

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Public access:

- AIP from ECAC and ECAC+ areas
- Consultation of static data
- Pre-Flight Information Bulletins

EAD Basic:

<http://www.ead.eurocontrol.int/eadcms/eadsite/index.php.html>



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