
FDP INSTITUTIONAL ISSUES

conducted by Sofréavia for DG TREN

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Introduction to the study

- 1. Naming the FDP Problem**
- 2. Rationale and goals of the study**
- 3. Analytic approach and research methodology**
- 4. Study organisation and composition of the study team**

Naming the FDP problem

- FDPS -- Development-Intensive Technology at the Heart of ATM
- Historic Absence Service Integration in Europe
- Difficulties and Risks for the Manufacturing Industry
- Costs of Monolithic Systems and Absence of Modular Techniques
- Slowness to Adopt New Concepts, Tools and Transition Strategies

Rationale and goals of the study

- Focus on the Need for New and Strengthened Stakeholder Co-operation
- Need, in the Context of Adoption/Ratification of Single Sky Legislation and the 1997 Eurocontrol revised Convention, to reconsider rulemaking process
- Specific Need to Develop Standardisation Strategies for European FDP

Purpose of the study

The purpose of this study is to investigate the **institutional issues** for the efficient **co-operation** of actors in the specification, development, implementation and services provision of **Flight Data Processing**.

The results of this study will be used to:

- identify optimum policies and processes that may need to be supported or mandated at the European level,
- help clarify the future relationships with and mandates required for standardisation bodies for the establishment of technical standards,
- refine and advance relevant legislative and funding initiatives on interoperability and standardisation in line with strategy derived from conclusions.

Analytic Approach

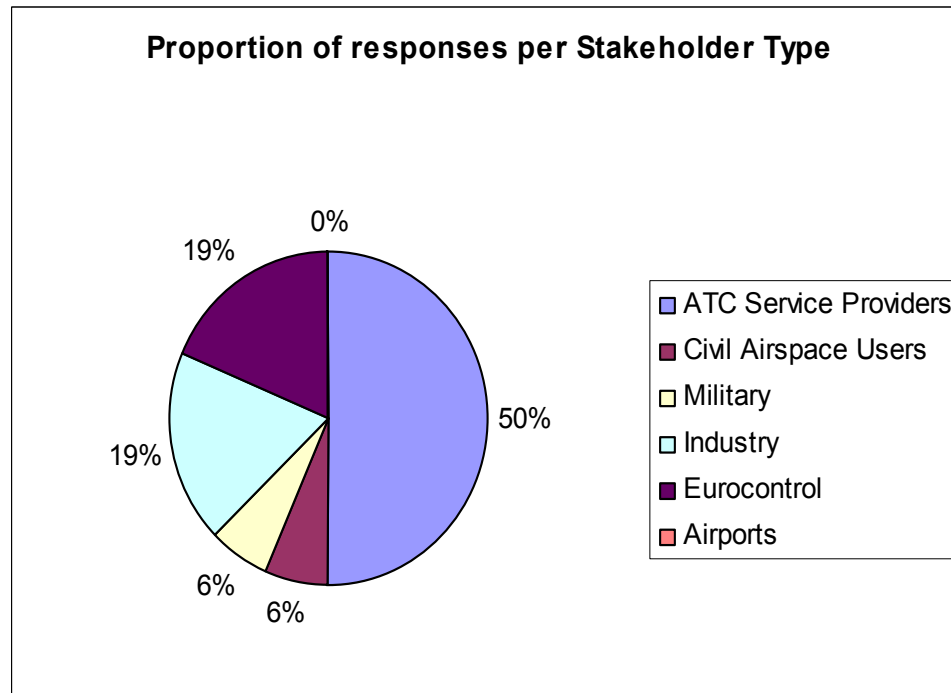
- Development of Architectural Alternatives
- Development of Organisational Alternatives
- Identification and Examination of Legal and Policy Issues
- Consideration of Institutional Solutions in Light of Stakeholder Response
- Step-by step Evolutionary (as opposed to “Greenfield”) Approach

Research Methodology (1)

- Strong Stakeholder Involvement Through Surveys and Interviews
 - questionnaire
 - about central points on which we need to obtain their opinion
 - with some architecture alternatives and some scenarios of evolution
 - interviews of stakeholders
 - What is your view on the Future architecture of FDP systems ?
 - Which insufficiencies do you acknowledge in the existing regulation and organisation?
 - what are your views concerning the future organisation and the future FDP systems (improvements, radical changes),
 - what are the possible issues to be solved with that new organisation and how they can be solved (future policy).
 - first results presented during a workshop in January 02

Stakeholders' Involvement

- 16 responses have been received out of the 23 circulated questionnaires



AENA, Austro Control GmbH, DFS, DNA, ENAV, NATS, NAV Portugal, Skyguide

IATA

INDRA, Lockheed Martin, THALES

EUROCONTROL : EEC, Regulatory Unit, CFMU

Military: EMEU

Research Methodology (2)

- Strong Stakeholder Involvement Through Surveys and Interviews
- Use of previous studies and reports
- Lessons learnt from past collaborative projects
- Policy Analysis Based on Existing and Foreseeable Regulatory Environment
- Development and Integration of Individual Work Packages

Key issues

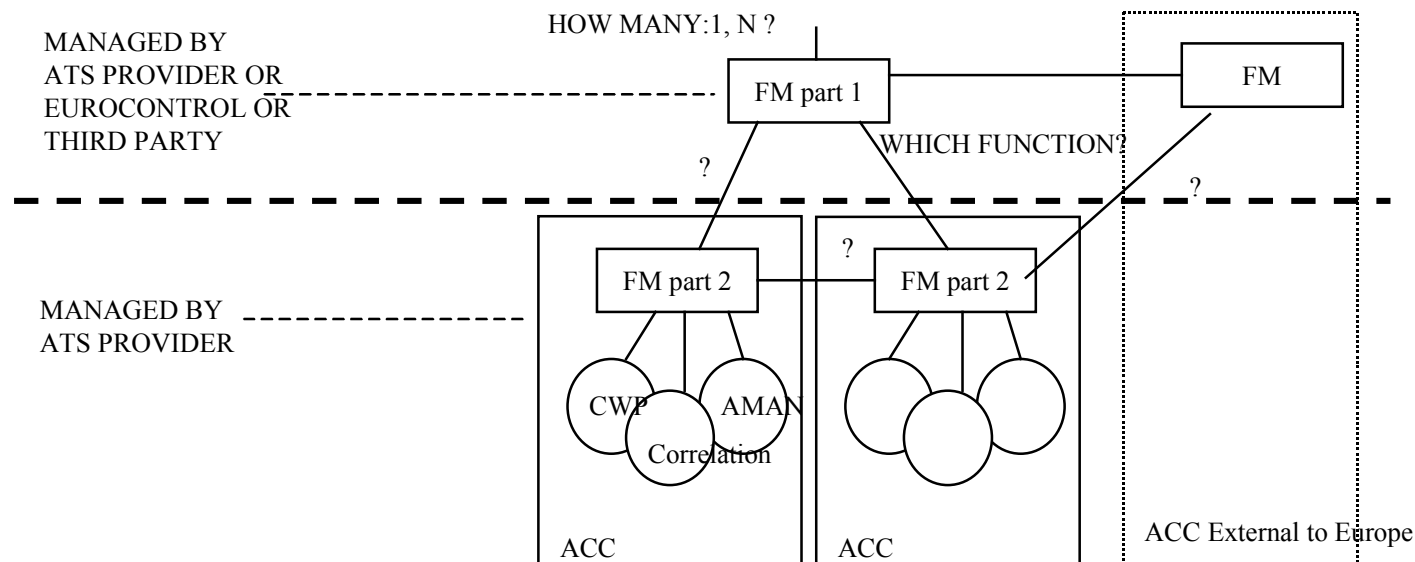
The study investigates:

- Technical and operational feasibility of different architectures (WP1),
- Paths of possible co-operation in the development, design, specification and procurement of FDP systems (WP2),
- Alternatives for organising FDP service provision (including the feasibility of establishing remote or outsourced operations servicing multiple centres) and for creating the appropriate regulatory environment for FDP operations (WP3)
- An extrapolation of the implications of various policy and institutional alternatives for collaborative CNS/ATM projects (WP4)
- A comprehensive summary of the optimum overall process for defining, achieving and adapting FDP interoperability standards that ensure safe and efficient European and global ATM performance (WP5)

Key issues: Innovative service provision (1)

Is it possible to externalise some parts of the FDP from an ATSU, more precisely the Flight Manager, to “unbundle” ATC services while assuring the production and distribution of European-wide consistent Flight Data ?

Can it be outsourced by a third party ?



Key issues: Innovative service provision (2)

- How We Define and Deal with “Externalisation”
 - From a technical perspective (relocating to a single point or through a distributed network)
 - From a commercial or organisational perspective (establishing a co-operative joint service or outsourcing to a specialist provider)
 - From a legal perspective (ancillary vs. core service)

Study Organisation and Sequence of Presentation

- *Chapter 1* Defines the background and goals of the study
- *Chapter 2* Defines Architectural Options and Explores Preferences
- *Chapter 3* Presents and Assesses Stakeholder Views on Co-operation and Analyses the Experience of Recent Co-operative Projects
- *Chapter 4* Examines the Institutional and Legal Context
- *Chapter 5* Presents Recommendations for Development and Procurement of FDP Systems and Considers Extension of Findings to other ATM Systems
- *Chapter 6* Examines FDP Service Provision Issues
- *Chapter 7* Considers Questions of Standardisation and Certification and Presents a Standardisation Roadmap

Composition and Responsibilities of the Study Team

- Project Management: Joël MOYAUX
- FDP Architectures: Dominique HOLLINGER
- Stakeholder Survey Co-ordination: Joël MOYAUX and Philippe NAVES
- Legal and Policy Analysis: Erwin von den STEINEN supported by Dr Pablo MENDES DE LEON
- Service Provision Scenarios: Michel DELARCHE
- FDP Development, Specification and Procurement Strategies: Joël MOYAUX and Philippe NAVES
- Technical Regulation Strategy and Standardisation Roadmap: Michel DELARCHE

Sequence of presentation for today 's workshop

- Possible architectures for FDP systems, respective merits and drawbacks (DH) 10h30 - 11h15
- Organisational issues of co-operation (stakeholders survey, collaborative projects) (JM) 11h30 - 12h00
- Institutional and legal context (EvdS) 12h00 - 12h30
- Conclusions and recommendations on the institutional issues raised by co-operative specification and development of FDP systems and other ATM systems (JM) 12h30 - 13h15
- Conclusions and recommendations on the provision of FDP services (MD) 14h15 - 15h00
- Roadmap for achieving standardisation in FDP systems (MD) 15h00 - 16h00
- Conclusions of the workshop and Next steps (European Commission) 16h00 - 16h30

«The» key to unlock the FDP issues ?



Several recommendations in various fields

