

SESAR SWIM Master Class

June – October 2012

Initiation Day – June 2012 the 14th
EUROCONTROL Brussels

THE SYSTEM WIDE INFORMATION MANAGEMENT

The Intranet
for Air Traffic
Management



SWIM Master Class

June – October 2012

Agenda (v01.01)

| # | Module | Time |
|---------------------------|--|-------------|
| 01 | Welcome Coffee | 09.00-09.15 |
| 02 | Welcome by SESAR SWIM Management | 09.15-09.30 |
| 03 | What is SWIM - Concept of Operations | 09.30-10.00 |
| 04 | SWIM Technical Infrastructure (ATC to ATC / EAD) | 10.00-10.45 |
| Break | | |
| 05 | Available B2B Web Services/Functional | 11.05-12.00 |
| 06 | Introduction to Showcases | 12.00-12.30 |
| Walking Lunch & Showcases | | |
| 07 | B2B Web Service Infrastructure/Architecture | 14.00-14.30 |
| 08 | Accessing B2B Web Services | 14.30-15.30 |
| Break | | |
| 09 | SWIM Master Class process and schedule | 15.50-16.20 |
| 10 | Questions & Answers session | 16.20-16.50 |
| 11 | Close-out | 16.50-17.00 |

Wim Post

SJU Programme Manager SWIM



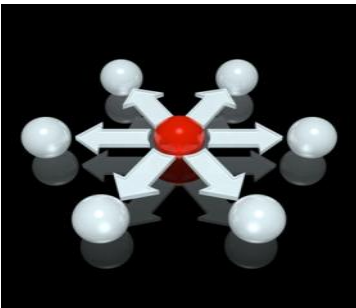
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SESAR FUNDAMENTAL CHANGES

INTEGRATION OF AIRPORTS

Integrating airports - time synchronised operations of surface trajectories and flight turn-around



THE 4D TRAJECTORY PRINCIPLE

Integrating airspace users flight systems to build predictable time synchronised flight precision



THE SYSTEM WIDE INFORMATION MANAGEMENT

The Intranet for Air Traffic Management



AUTOMATION

Human operators concentrate on high value-added tasks



COLLABORATIVE NETWORK PLANNING

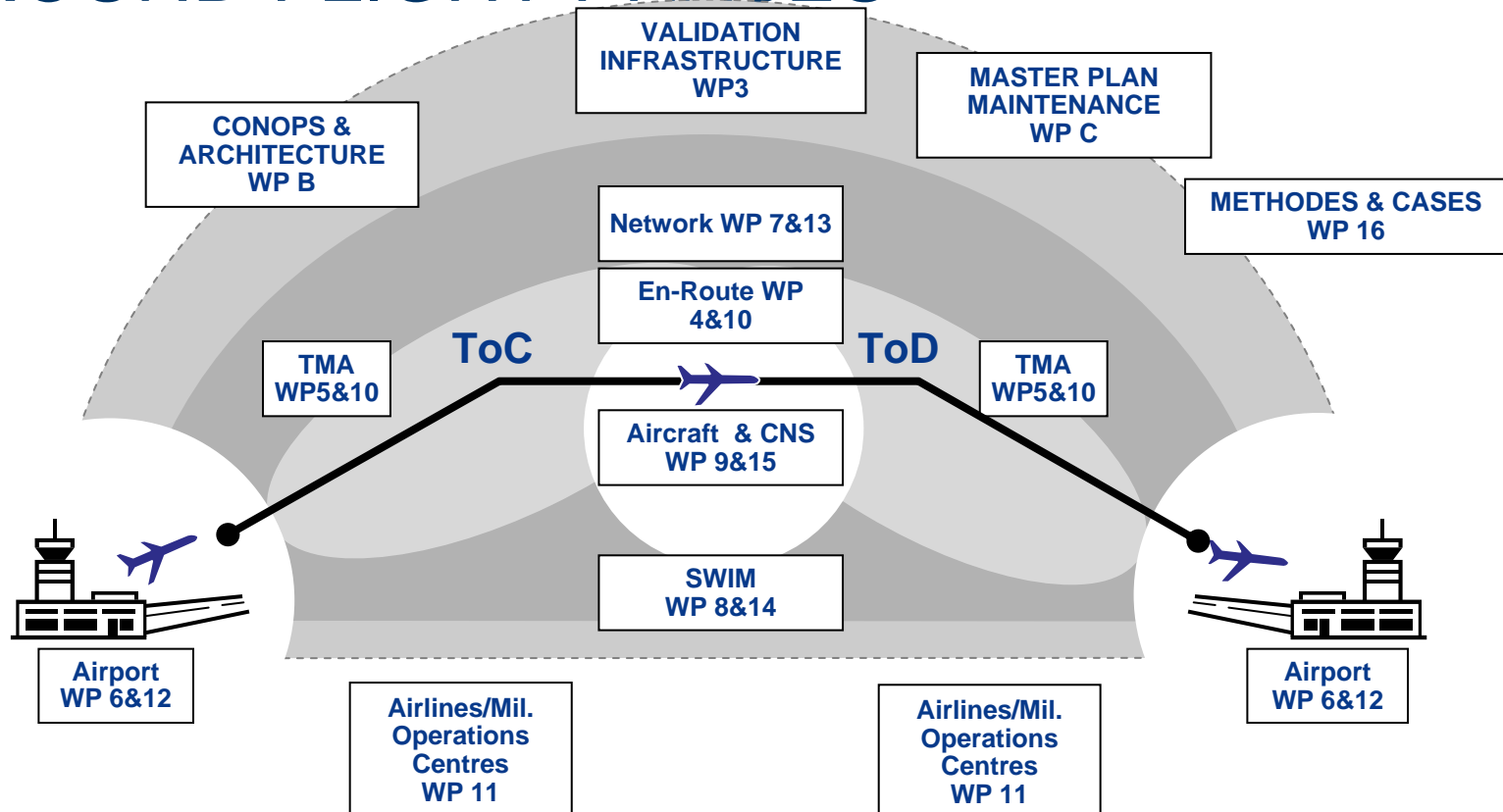
Integrated with airport operations planning and airspace user flight planning



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SESAR: A PROGRAMME ORGANISED AROUND FLIGHT PHASES



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SESAR Members contributing to the SWIM developments



FREQUENTIS

THALES



Honeywell



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Our expectations

- An open exchange of ideas, showing to us and the wider ATM community the kind of developments that SWIM will enable.
- A sharing of experience and feedback that will help us to strengthen the output of SESAR.
- Leading edge thinking that may eventually change the way people think about ATM.

Peder Blomqvist

WP08 Leader

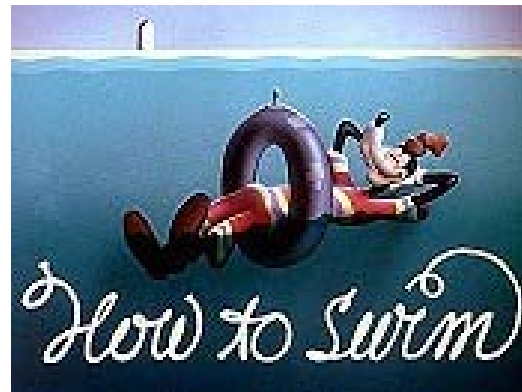


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“SWIM consists of *standards, infrastructure and governance* enabling the management of ATM information and its exchange between qualified parties via interoperable *services*.”

SESAR SWIM DEFINITION : Ref : SWIM CONOPS





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BACKGROUND

- The SWIM concept has been developed within SESAR for the last two years.
- Standards have been developed and will be further developed.
- The next natural step is to involve external stakeholders from the industry.

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Flight Crews



Military actors



Executive Regulation
Controllers offices



We have many more Governance Agencies

A vast number of stakeholders to services and information...



Airlines



Airports



Needing:

- Incremental development
- Simplified governance
- Fast time-to-market
- Interoperability



Tower Controllers

System Engineers



Planning Controllers



AIS, MET info providers, and Developers

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OBJECTIVES/EXPECTATIONS

No constraints !
Think out-of-the-box !

- Engaging the state of the art competences; kickstarting the SWIM evolution.
- Further developing and demonstrating the added value of state-of-the-art information technology for air traffic management.
- Broadening the understanding of SWIM and the development of SWIM enabled services.
- The creation of a SWIM Community of Interest (COI)



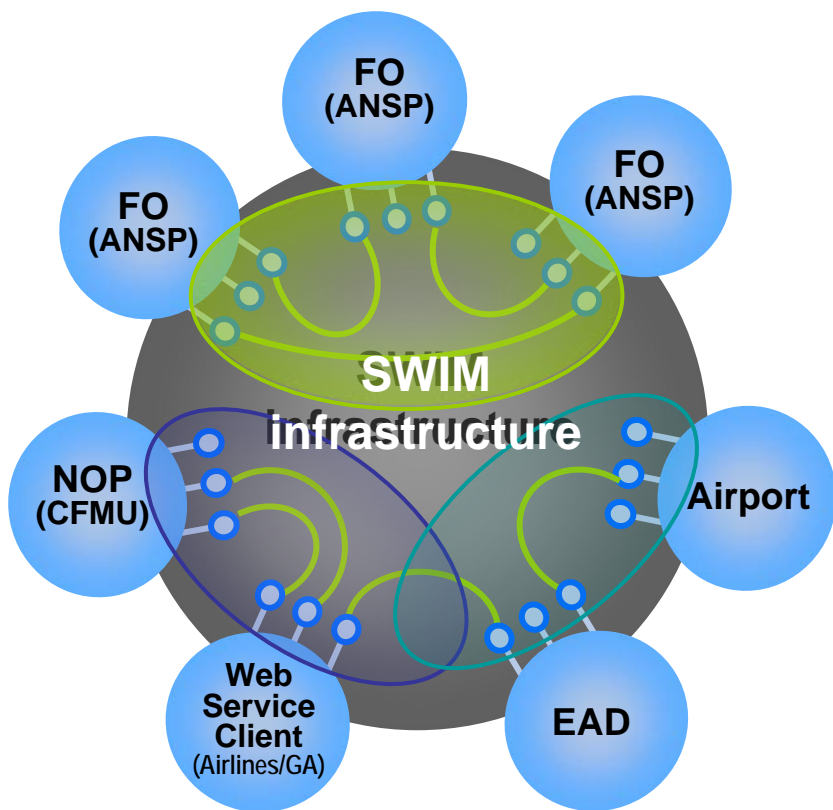
Richard Houdebert

WP14 Leader (together with Dario di Crescenzo)

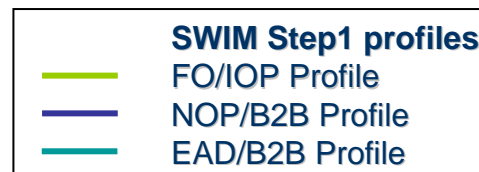


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WP14 approach for Step1 was to ensure that all related ATM interoperability initiatives in operations (NOP, EAD), or specified and standardized (ED-133) were addressed by the SWIM developments.



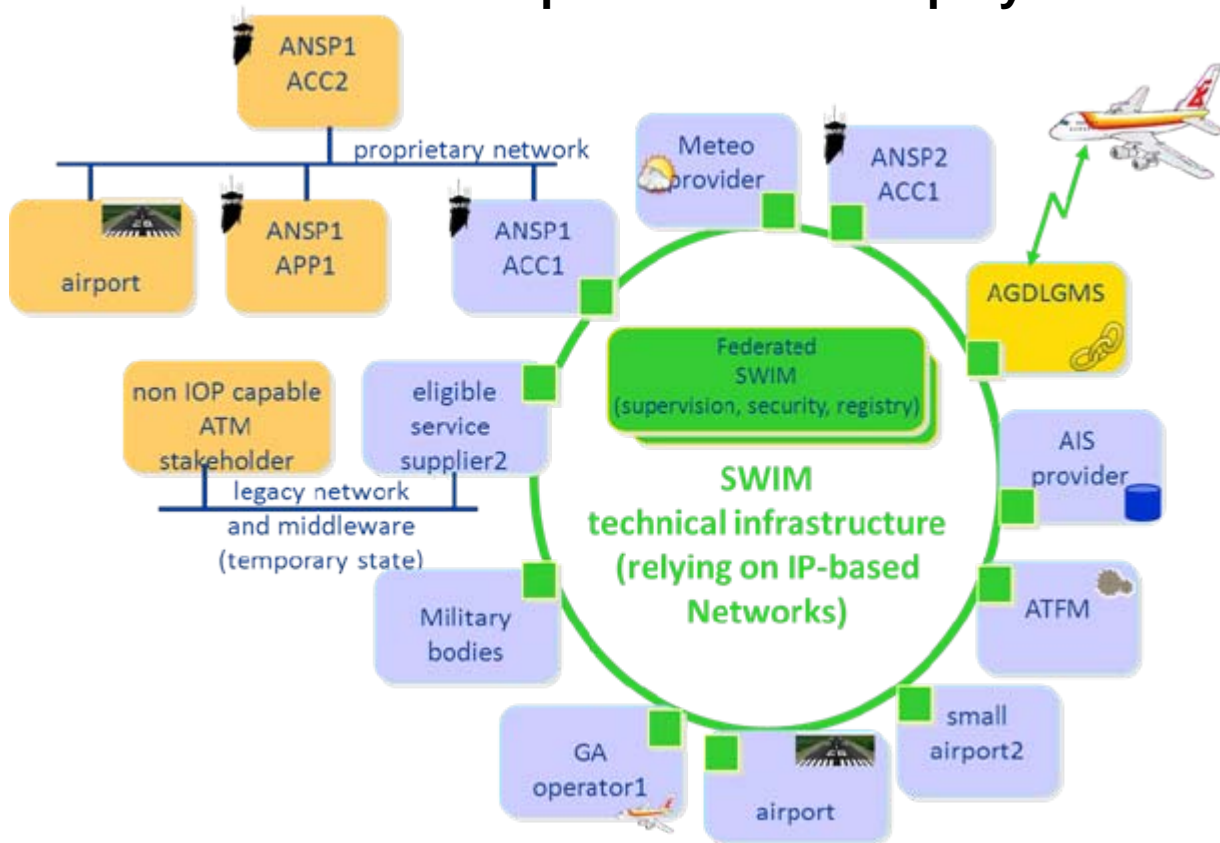
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Following Step1 ...

- Logically, a single common data/service bus
- Physically, different options and solutions according to the needs of multiple systems and stakeholders implemented through various SWIM profiles

Example of a future deployed SWIM





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- The SESAR SWIM Master Class is an initiative under the SWIM communication actions of the programme (Project 14.04) that is fully supported by the SWIM WPs management and the SESAR-JU.
- It aims to foster the transition of the ATM systems to SOA and broaden the practical experience in the use of one of the SWIM profiles
- We are looking for feedback from this practical experience in using this particular SWIM Technical infrastructure profile and the available services

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We wish you all success in supporting us
doing this

Time to SWIM !

