

PENS

PAN EUROPEAN NETWORK SERVICES

An overview



November 2013 - v1.5

Agenda

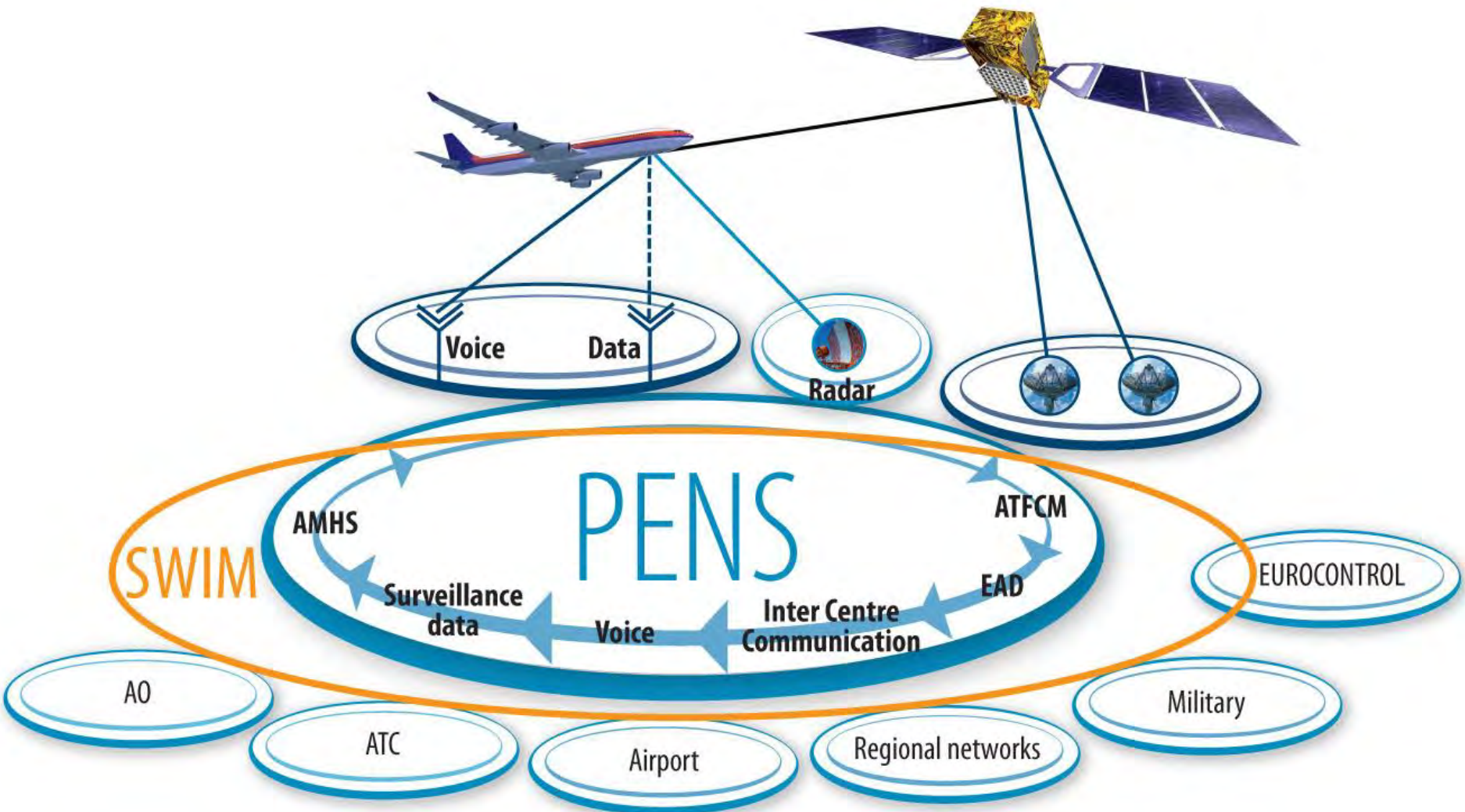
- Why PENS
- What is PENS
- PENS Governance
- PENS Management Unit
- Conclusion



Why PENS

- Current data communications in the air traffic management industry heavily rely on X.25, a technology that is about to be phased out (OLDI, ASTERIX, AFTN/CIDIN ...)
- Most inter- ANSP links are bilateral point to point circuits, managed on a bilateral basis
- CFMU and EAD have separate networks with different providers
- Future air traffic management will require tighter collaboration between all stakeholders
- Supporting seamless operations and interoperability
- Business case demonstrated that overall costs could be reduced by 15%.
- The technical enabler for this is a common shared network: PENS

PENS: the future of European aeronautical communications infrastructure



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What is PENS

- A joint EUROCONTROL / ANSP led initiative to
 - provide a common **IP based** managed network service across the European region
 - Provide a efficient support to operational **data and potentially voice** communications:
 - **existing** services
 - **new requirements** that are emerging from future Air Traffic Management (**ATM**) concepts (incl SESAR).
 - In line with the SES-2 regulation (FMTP IR)

PENS Service Layers



Shared sites:

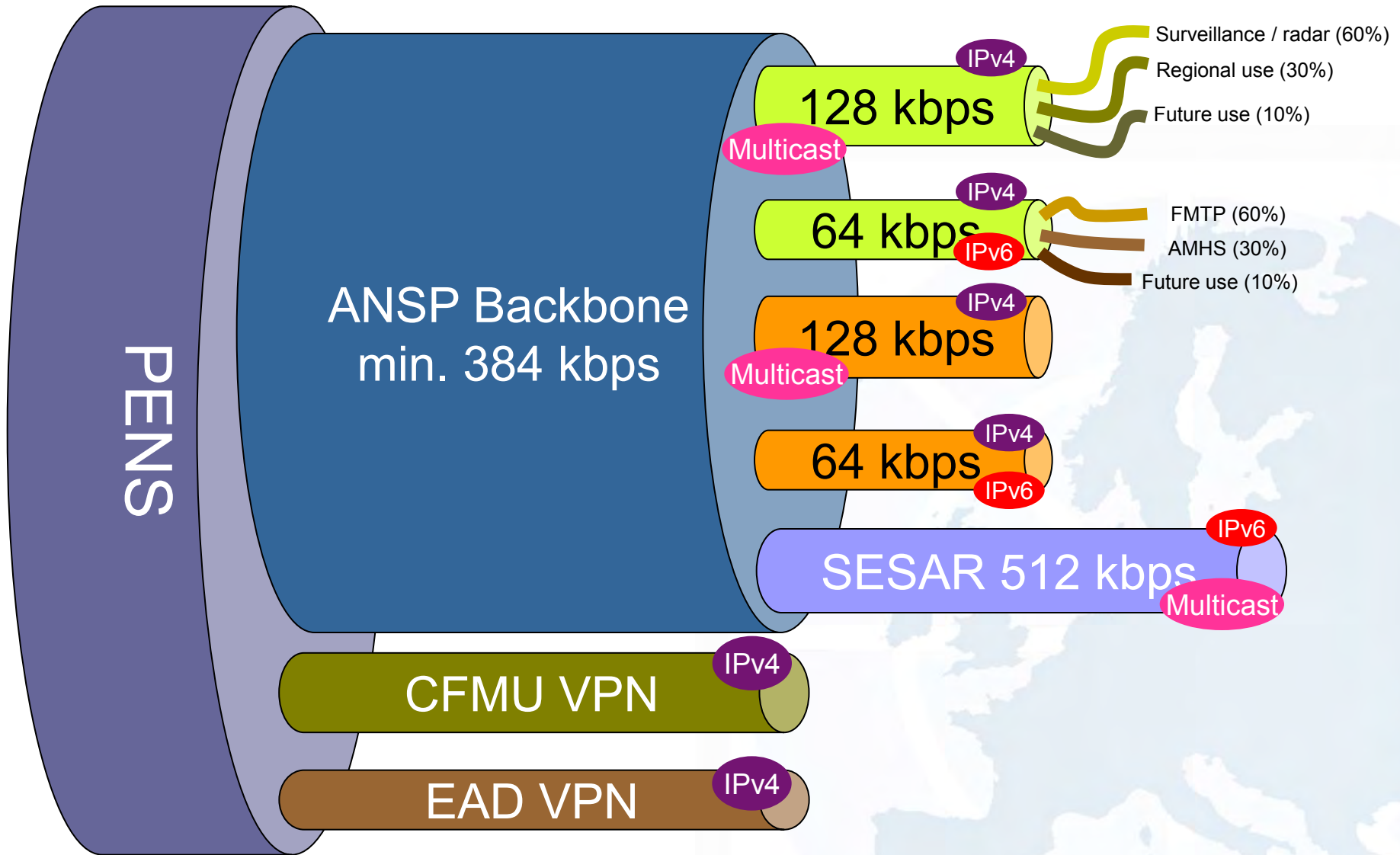
- PENS Users sharing the infrastructure
- cost optimization, alignment on highest service level

PENS User Status



February 2012

PENS Design Overview

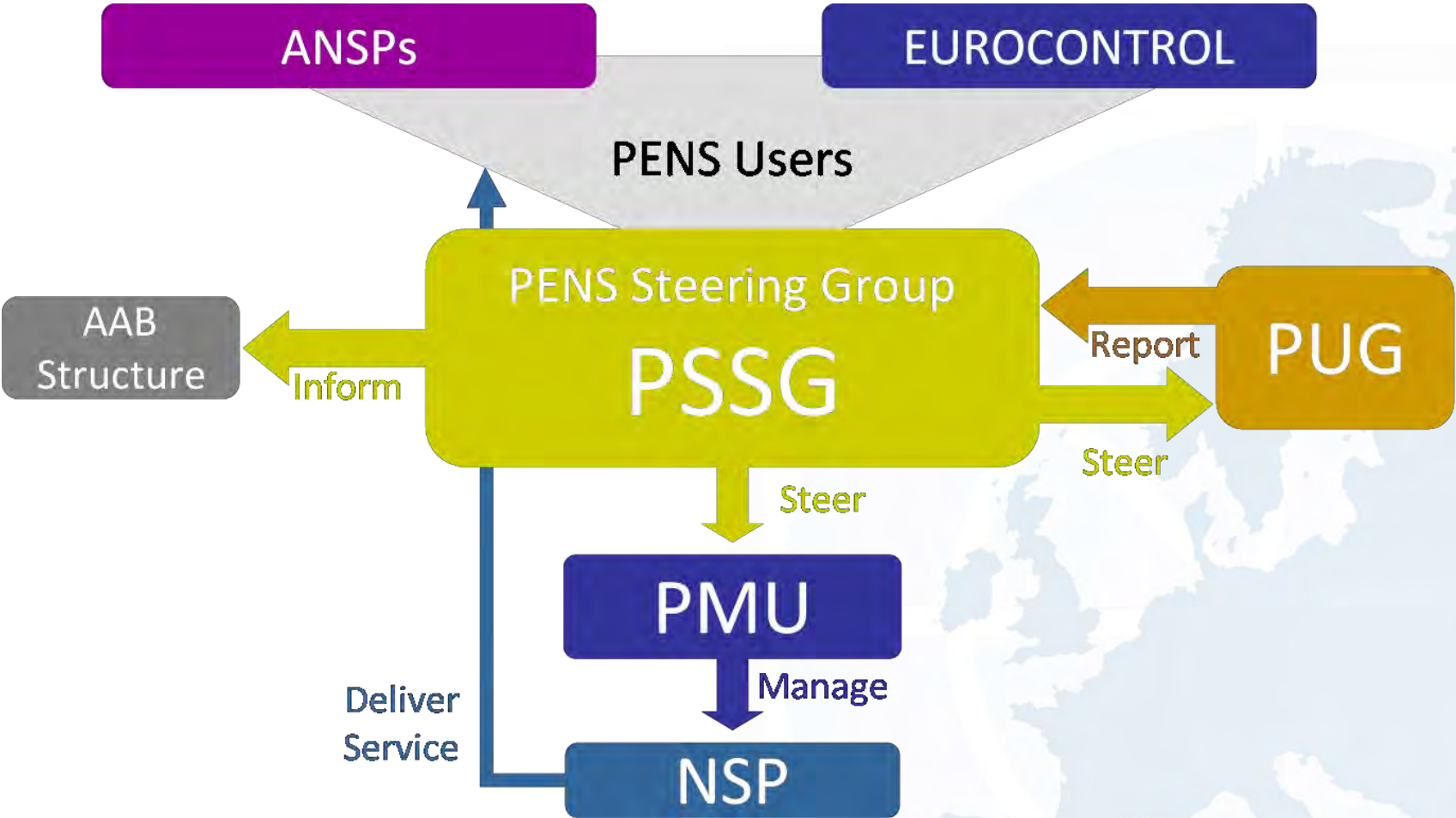


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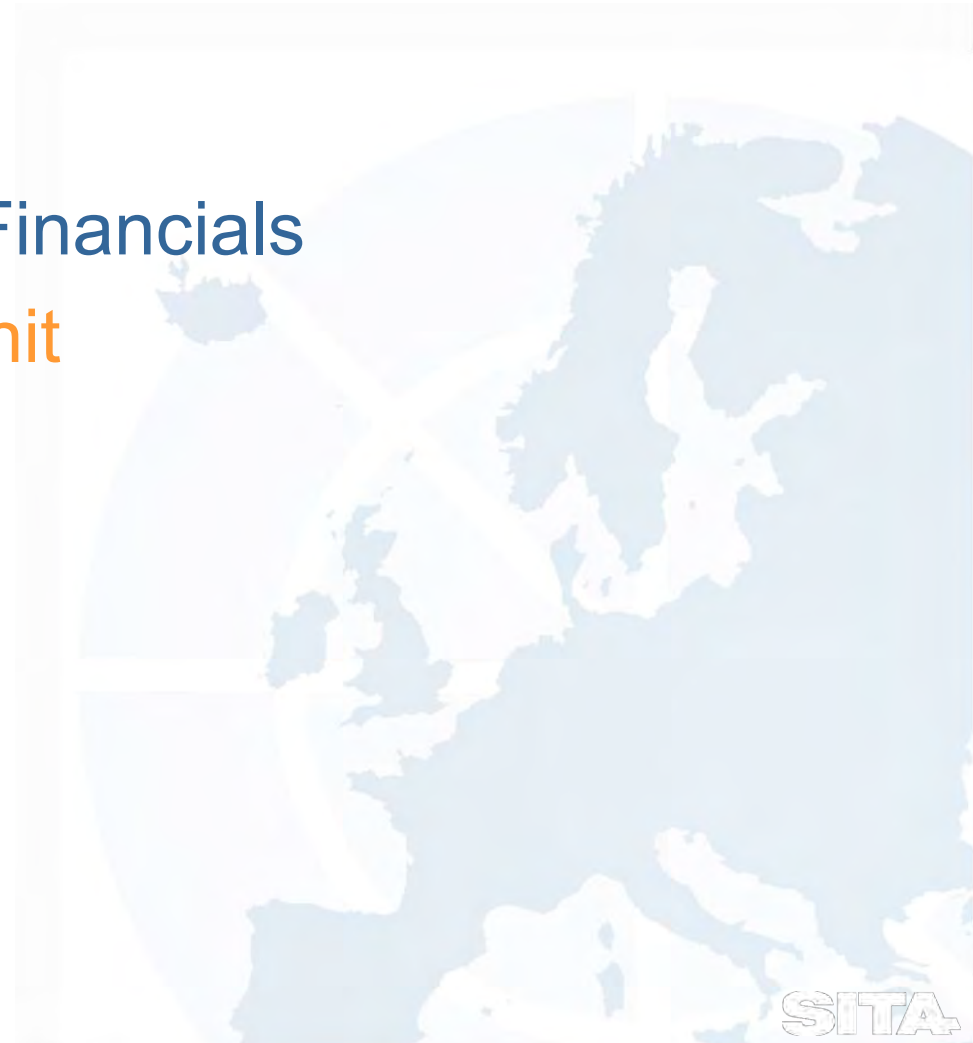


PENS Governance



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PMU mission statement

“Under the guidance of **PSSSG** (PEN Services Steering Group), the PENS Management Unit shall carry out the **day to day management** of the PENS, including planning, monitoring the service and liaising with the **NSP** (SITA) and the **PENS users** (CFMU, EAD, ANSPs ...)”

PMU Roles & Responsibilities

Service level management

- customers
- SLAs agreed
- service catalogue
- continuity plans

Change management

- changes - RFC
- projects
- CAB

Financial control

- cost allocation
- compensations
- invoice PMU cost

Strategy, planning & communication

- policy / standards
- benchmark
- advise PSSG
- RFPs
- user groups

Pan European Network Services

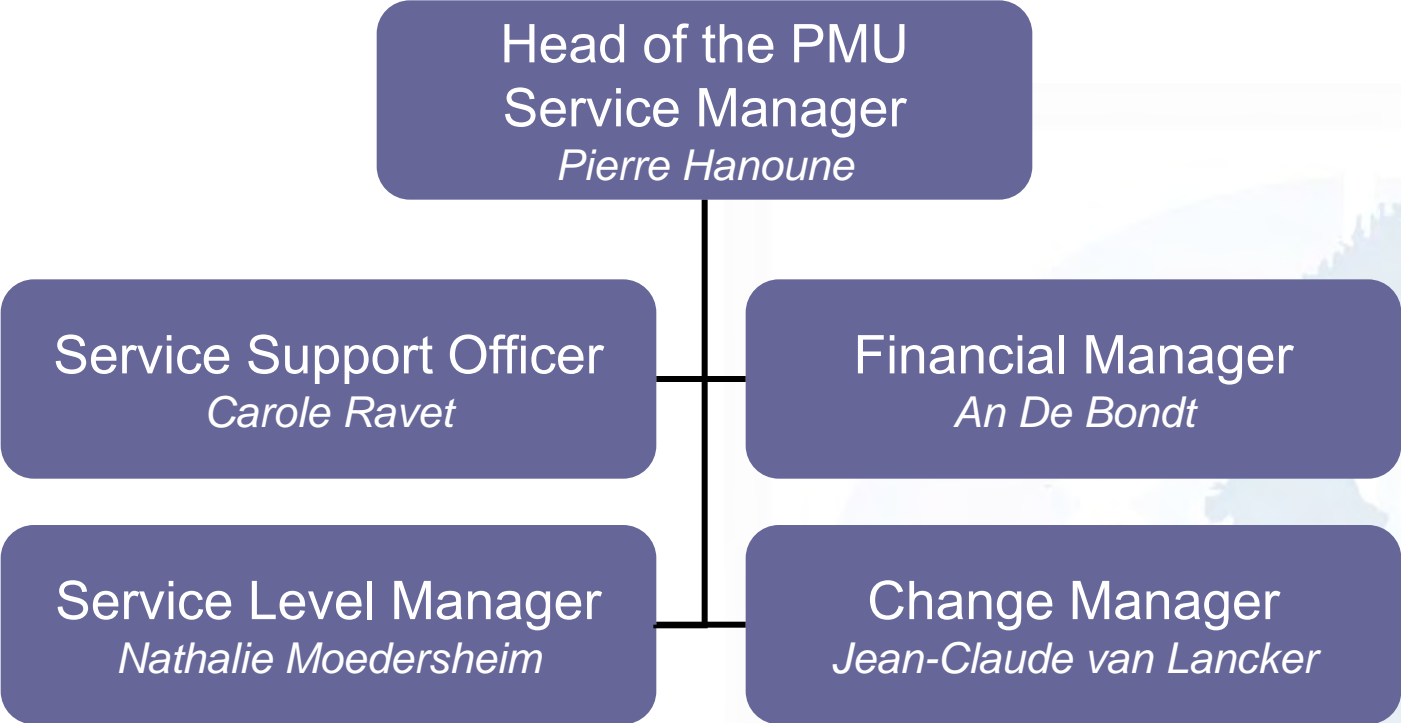
CFMU

EAD

ANSPs

...

PMU



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- PENS Technical overview
- PENS Governance & Financials
- PENS Management Unit
- **Conclusion**



The joint PENS team ANSPs, SITA & EUROCONTROL



PENS Steering Group /19 - September 19th, 2013

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