



AOP-NOP connection under PCP

ACI EUROPE - SDAG meeting

Agenda





• PCP view on AF4 – AOP-NOP

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Deployment Plan view on AF4 – AOP-NOP

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Deployment Plan (DP) vs PCP

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- Data requirements
 - SESAR development (recommended)
 - NM (to start with)

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Technical requirements for connecting



PCP view on AF4 – AOP-NOP (1/3)



- Airport configurations constraints and weather and airspace information shall be integrated into the NOP.
- Where available, the airport constraints shall be derived from the AOP.
- The ATFCM target times may be used as input to arrival sequencing. Where available and required for traffic sequencing, the Target Time for Arrival shall be derived from the AOP.
- Where Target Times are used by ATFCM to address airport congestion, these Target Times may be subject to AOP alignment as part of ATFCM coordination processes.
- Target Times shall also be used to support airport arrival sequencing processes in the en-route phase.



PCP view on AF4 – AOP-NOP (2/3)



 The integrated airport configurations and weather and airspace information shall be able to be read and modified by authorised operational stakeholders participating in managing and operating the network.

System requirements

- Operational stakeholders shall be granted access to the data they need through queries within the NOP — Operational stakeholder ground systems shall be adapted to interface with network management systems.
- AOP systems shall interface with the NOP systems to implement a Collaborative NOP — Interface between operational stakeholder systems and network management systems shall be implemented using System-Wide Information Management services once available



Classification: TLP: Green

PCP view on AF4 – AOP-NOP (3/3)



- Interdependencies with other ATM functionalities
 - Where available, AOP system shall make use of DMAN as specified in Point (AF) 2
 - Downlink trajectory information as specified in Point (AF) 6, where available, shall be integrated into the NOP to support TTO/TTA

Shall be... May be... Where used... Where available and required...



Deployment Plan view on AF4.2.4 – AOP-NOP



- Family 4.2.4 requires the integration of the basic A-CDM (2.1.3)
- Family 4.2.4 requires the integration of the initial AOP (2.1.4)
- Family 4.2.4 will integrate the meteorological information provided (AF5 SWIM)
- Family 2.1.4 initial AOP The Airport Operations Plan (AOP) is a single, common and collaboratively agreed rolling plan available to all airport stakeholders whose purpose is to provide common situational awareness.
 - The AOP reflects the operational status of the airport.



Deployment Plan (DP) versus PCP



- PCP defines A-CDM being integrated with DMAN (pre-departure sequencing) as pre-requisite for AOP
- DP refers to basic A-CDM (definition is not clear and does not appear in PCP)
- PCP defines collaborative NOP with some information being provided through AOP
- DP identifies initial AOP (definition is not clear and does not appear in PCP)





Data requirements - SESAR development

(recommended)

- D16 OFA 05.01.01 Operational Service and Environment Definition for Airport Operations Centre
- Deliverable of the APOC project 6.5 in SESAR
- Defines around ~500 data elements to be generated or received in AOP





NOP

AOP

AOP

Local ATC

AOC

Local ATC

Local ATC

AOP

NOP

Data – NM requirements (to start with)



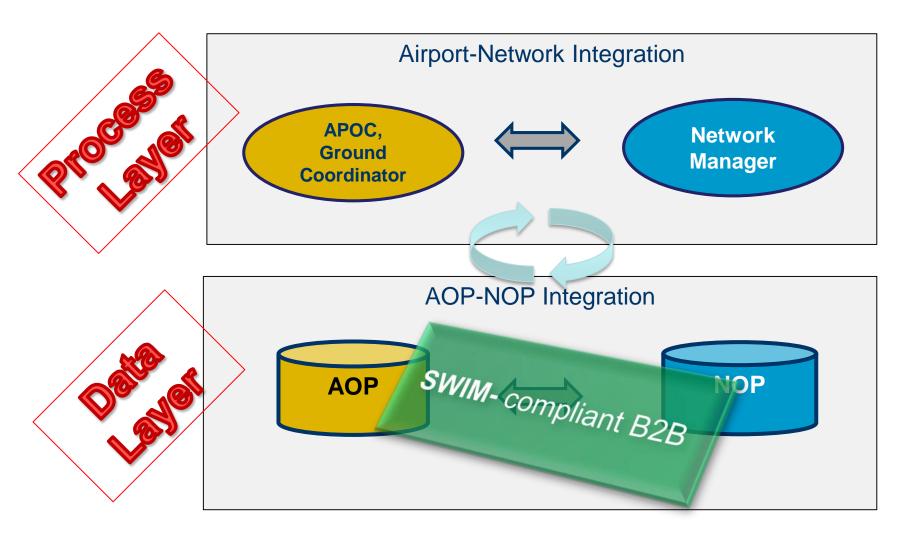






Technical requirements for connecting







Conclusion



- PCP is vague on what is a hard requirement for the AOP and for AOP-NOP connection
- Deployment Plan has definitions that are not consistent with PCP
- NM sees SESAR output as a starting point but not all is necessarily needed or requires potentially change
- To comply with PCP the technical connection via B2B webservices is needed (SWIM)
- To comply with PCP at data level, the scope as defined in the APOC TF is desirable but the scope as defined in the AOP-NOP CEF projects should be sufficient







Discussion