SOL Solution PJ.09-03 — Collaborative Network Management Functions

Collaborative Network Management Functions allow for network management based on transparency, performance targets and agreed control mechanisms. The solution enables a real-time visualisation of the evolving AOP/NOP planning environment (such as demand pattern and capacity bottlenecks) to support airspace user and local planning activities. Network Operations planning and execution is managed by an agreed set of rules and procedures (including what-if), guiding subsidiary DCB and UDPP measures under consideration of trade-offs and network performance targets. Collaborative 4D constraints management integrates AUs priorities and preferences, reconciliation of DCB measures with Airports, ACCs, AU and NM, relying on the Multiple Constraints Resolver process.

Program	SESAR 2020 Wave 1
Need for coordination	Network
Related to	Solution #18, Solution #20, Solution #21, Solution #46, Solution #56, Solution PJ.01-01, Solution PJ.01-02, Solution PJ.04-02, Solution PJ.07-01, Solution PJ.07-02, Solution PJ.07-03, Solution PJ.08-01, Solution PJ.08-02, Solution PJ.09-02, Solution PJ.10-01b, Solution PJ.15-01, Solution PJ.16-04
Date V1 Gate	-
Date V2 Gate	-
Date V3 Gate	-
Deployment Start Date	31-12-2017
Benefits Start Date (IOC)	31-12-2027
Full Benefit Date (FOC)	31-12-2032

Context

Related Elements

Source: European ATM Portal - **Report produced:** 18-05-2022 - **Date refresh:** 15-05-2022
EATMA data version: EATMA V12.1 - **ATM Master Plan data set version:** Dataset 19 Public - **MP L3 Edition:** MP L3 Plan 2019

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PJ SESAR Projects

Code	Title	Related Elements
PJ.09 DCB	Advanced Demand and Capacity Balancing	SOL

OI Operational Improvement Steps / Enablers

Code	Dates	Solution Data Quality Index : -

Timeline columns: 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

Code	Timeline bars
PJ.09-03	IOC - FOC (≈28–33)
AUO-0108	(≈24)
🔒 NIMS-52	▲ (19); V4 (20–21); V5 (22–23); IOC (24)
DCB-0103-B	(≈27–33)
🔒 AOC-ATM-10	IOC - FOC (≈20–24)
🔒 AOC-ATM-11	▲ (20); V4 (22–23); V5 (24–26); IOC - FOC (27–33)
🔒 AOC-ATM-13	▲ (15); V4 (19–20); V (21); IOC - FOC (22–27)
🔒 AOC-ATM-20	V4 (17–18); IOC - FOC (19–24)
🔒 FOC-009	▲ (19); △ (21)
🔒 NIMS-12	▲ (20); V4 (22–24); V5 (25–26); IOC - FOC (27–31)
🔒 NIMS-13c	▲ (17); V5 (20); IOC - FOC (23–27); V4 (29)
🔒 NIMS-21b	V4 (19); V5 (20); ▲ (21); IOC - FOC (23)
🔒 NIMS-22	▲V4 (17); V5 (19); IOC - FOC (20–24)
🔒 NIMS-25	▲ (15); V5 (16–17); IOC - FOC (23–27)
🔒 PRO-095	▲ (21)
🔒 PRO-096	▲ (21)
🔒 PRO-098	
🔒 PRO-100	
🔒 SWIM-APS-03b	▲ (17)
🔒 SWIM-APS-04b	▲ (21)
DCB-0214	(≈27–31)
🔒 NIMS-12	▲ (20); V4 (22–24); V5 (25–26); IOC - FOC (27–31)
🔒 NIMS-22	▲V4 (17); V5 (19); IOC - FOC (20–24)
🔒 PRO-095	▲ (21)

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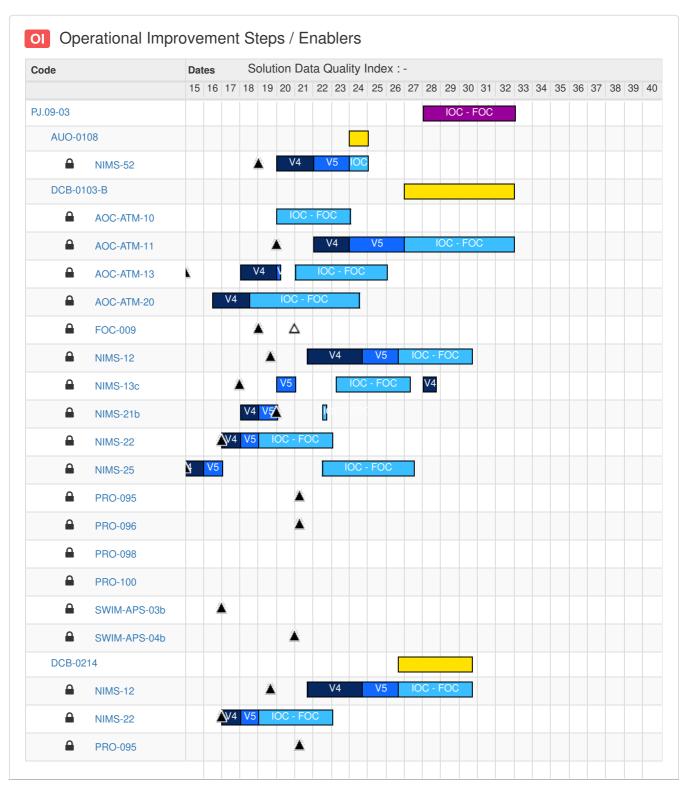
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🔒 PRO-096	▲			
🔒 PRO-098				
🔒 PRO-100				
DCB-0215	▮ (yellow bar)			
🔒 FOC-006	▲			
🔒 NIMS-13c	▲ V5	IOC - FOC	V4	
🔒 NIMS-21b	V4 V5▲	▮		
🔒 NIMS-23	▲V4 V5	IOC - FOC		
🔒 NIMS-25	V4 V5	IOC - FOC		
🔒 NIMS-49	▲V4 V5 IOC - FOC			
🔒 PRO-098				
🔒 PRO-100				
DCB-0217	▮ (yellow bar)			
🔒 NIMS-23	▲V4 V5	IOC - FOC		
🔒 NIMS-46	▲ V4 V5 IOC - FOC			
🔒 SWIM-APS-04b	▲			
➡ AOC-ATM-10	IOC - FOC			
➡ ER APP ATC 82	▲ V4 V5 IOC - FOC			
➡ NIMS-13c	▲ V5	IOC - FOC	V4	
➡ NIMS-21b	V4 V5▲	IOC - FOC		
➡ PRO-100				
➡ SWIM-APS-03b	▲			

PCP PCP Elements: No associated data

OBJ Implementation Objectives: No associated data

ICAO ICAO Block Modules: No associated data

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