



CM-0103-B — Automated Support for Traffic Complexity Assessment

Automated tools adapted to trajectory based operations (planning and execution): including user preferred trajectory and 4D data, continuously monitor and evaluate traffic workload and complexity in defined airspace volumes according to predefined parameters. These tools will provide accurate and timely prediction on upcoming congestions and appropriate input to tools handling hotspots/ complexity resolution.

Rationale The objective is to design advanced tools for both Network Management function (planning and execution phases) and extended ATC planning to monitor and assess ATC workload/complexity and to provide input to complexity resolution tools. ATC Workload/complexity assessment : Analysing aircraft trajectories using SBT/RBT and other demand information, added with the use of validated complexity metrics, allows prediction of complexity coupled with demand to evaluate predicted ATC workload. In medium to short term planning phase, DCB (through CDM) operates with look ahead times in which information on traffic and airspace organisation might be still at the level of intentions. Because of this uncertainty, complexity and workload assessment may need to be evaluated in a different way than in short term to execution phase, where it can be done with more accurate data. ATC Workload/complexity resolution: The workload/complexity assessment is used by resolution tools in order to support them in finding solutions to hotspots/complex situation at different level of accuracy of the prediction data.

Forecast V3 end date 31-12-2023

Benefits start date (IOC) 06-07-2018

Full benefits date (FOC) 06-07-2024

Current Maturity Level V2

Solution Data Quality Index -

Current Maturity Phase R&D

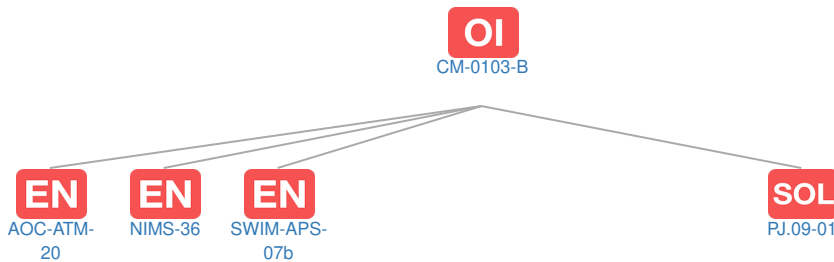
Scope -

Release 2020

PCP Status -

Context

Related Elements



EN Enablers

Code	Dates																																				
	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											
CM-0103-B				[Yellow Bar]																																	
🔒 AOC-ATM-20					V4	[Blue Bar: IOC - FOC]																															
🔒 NIMS-36		▲																																			
➔ SWIM-APS-07b			▲			V4				[Blue Bar: IOC - FOC]																											

OI Dependent OI Steps

Relationship	Code	Title	Related Elements
Has predecessor	CM-0103-A	Automated Support for Traffic Complexity Assessment	<div style="display: flex; flex-wrap: wrap; gap: 5px;"> SOL OI EN OBJ DS PCP ICAO ATA </div>

SOL SESAR Solutions

Code	Title	Program	Related Elements
PJ.09-01	Network Prediction and Performance	SESAR 2020 Wave 1	<div style="display: flex; flex-wrap: wrap; gap: 5px;"> SOL PJ OI DS EOC ICAO </div>

PCP PCP Elements: No associated data

OBJ Implementation Objectives: No associated data

ICAO ICAO Block Modules: No associated data