



# NIMS-49 — Multiple Constraint Resolver

NM system functionality will be enhanced for the consolidation of multiple conflicting constraints. Evolution of the existing CASA slot algorithms towards a 'Multiple Constraint Resolver' with the option to evolve towards a 'Multiple Trajectory Optimizer' using a target function for all stakeholders according to agreed KPIs.

**Category** SYSTEM

**Stakeholder** **Air Navigation Service Provider**  
**Airport Operator**  
**Airspace User**  
*Civil*  
Civil Flight Operations Centre  
**Network Manager**

**V3 End** 31-03-2021

**V4 Start** 31-03-2021

**V5 Start** 01-04-2022

**V4 End** 01-04-2022

**V5 End** 01-04-2023

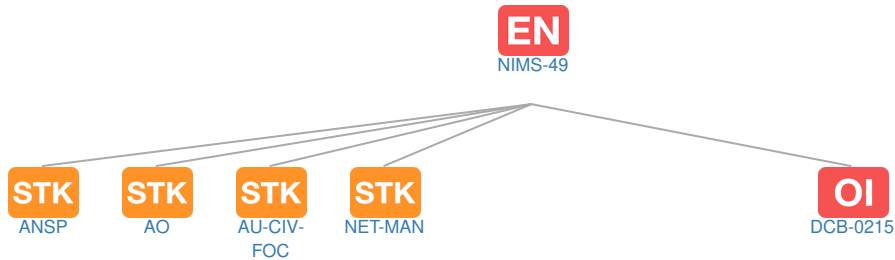
**Air Navigation Service Provider: -**  
**Airport Operator: -**  
**Airspace User: -**  
*Civil*  
Civil Flight Operations Centre: -  
**Network Manager: 01-04-2023**

**IOC** 01-04-2023

**FOC** 01-04-2027

## Context

### Related Elements



**OI** Operational Improvement Steps

| Code     | Benefits start date (IOC) - Full benefit date (FOC) |    |    |    |    |    |    |    |    |           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|---|----|----|----|----|----|----|----|----|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|          | 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 |
| NIMS-49  |   |    |    |    |    |    |    | V4 | V5 | IOC - FOC |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| DCB-0215 |   |    |    |    |    |    |    |    |    |           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

**EN** Dependent Enablers: No associated data

**PCP** PCP Elements: No associated data

**STK** Stakeholders

| Code       | Title                           | Related Elements |
|------------|---------------------------------|------------------|
| ANSP       | Air Navigation Service Provider | <b>EN</b>        |
| AO         | Airport Operator                | <b>EN</b>        |
| AU         | Airspace User                   | <b>EN</b>        |
| AU-CIV-FOC | Civil Flight Operations Centre  | <b>EN</b>        |
| NM         | Network Manager                 | <b>EN</b>        |
| NET-MAN    | Network Manager                 | <b>EN</b>        |

Standards: No associated data

**OBJ** Implementation Objectives: No associated data

Stakeholder Lines of Action (SLoAs): No associated data

**PJ** SESAR Workpackages: No associated data