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# Interim Deployment Steering Group (IDSG)

## Intermediate report #2

Interim Deployment Programme (IDP) **outline**

version **12.0**

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**ATTACHMENT**

**Note on the detailed proposed IDP geographical applicability and timing**

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## 1. Objective of the document

The purpose of this document is to ~~present the results of the work performed so far by the Interim Deployment Steering Group (IDSG), "the transitional arrangement to steer the implementation of short term essential SESAR deployments identified as critical to performance and to achieve early benefits at European level"~~<sup>1</sup>.

~~In particular, this intermediate report proposes to introduce an outline update of the Interim Deployment Programme (IDP) – version 2.0, including a detailed description of the proposed geographical applicability area and timing, as well as a Work Breakdown Structure (WBS) and an initial project view (correlated revision of the Gantt chart). This proposal constitutes the main outcome from the IDSG activities since its launch on 29 February 2012, the first Intermediate report in September 2012.~~

~~Indeed, as foreseen in the IDSG Rules of Procedure, "the IDSG shall develop, maintain and execute an Interim Deployment Programme that will be derived from and kept consistent with the European ATM Master Plan [...], will address the implementation activities in support to short term essential ATM operational changes based on the prioritisation set by the European ATM Master Plan, taking into account operational performance network needs and industry capability"~~<sup>2</sup>.

In accordance with article 2.3 of IDSG's Rules of Procedure, the proposed IDP version 2.0 capitalizes on the ~~outcome of the former IP1 Steering Group and the~~ most recent contributions provided by all the stakeholders actively involved in the IDSG

~~In accordance with article 2.4 of IDSG's Rules of Procedure, this intermediate report is submitted to the Commission to seek its opinion. Should the Commission – having consulted the Single Sky Committee – return a positive opinion on this intermediate report and the IDP, the IDSG would then adopt the IDP. The IDP would then constitute the reference for IDSG's future work, mostly oriented towards deployment steering and monitoring as described in articles 2.5, 2.6 and 2.7 of its Rules of Procedure.~~

~~After adoption by the IDSG, the Commission would also forward the IDP to the SESAR JU (SJJU) for consideration in the framework of its mandate "for drafting a proposal on the content of a pilot common project" to ensure consistency and continuity.~~

<sup>1</sup> "Interim Deployment Steering Group Rules of Procedure", European Commission Ref. Ares(2012)156650 - 10/02/2012, article 1.2

<sup>2</sup> "Interim Deployment Steering Group Rules of Procedure", European Commission Ref. Ares(2012)156650 - 10/02/2012, articles 2.1 and 2.2

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## 2. Introduction

In ~~December 2014~~<sup>September 2012</sup>, the IDSG has issued its first Intermediate Report, to the European Commission, proposing an Interim Deployment Programme (version 1.0), including a Work Breakdown Structure (WBS) and associated Gantt chart.

Having consulted the Single Sky Committee at the occasion of its 47<sup>th</sup> meeting on 15-16 October 2012, the Commission returned a provisional favourable opinion, considering the IDP v1.0 a sound enough basis for the IDSG to continue its work and switch to monitoring and steering<sup>3</sup>.

However, the Commission also identified some areas for improvement of the proposed IDP, notably the introduction of details related to the geographical applicability and associated timing for the IDP tasks.

~~adopted a Communication on "Governance and incentive mechanisms for the deployment of SESAR, the Single European Sky's technological pillar"<sup>4</sup>. This Communication acknowledged the need to reinforce the effort to steer early SESAR deployment activities and monitor their consistency with the European ATM master plan (the Master plan) pending the establishment of the future governance:~~

~~"The Commission will also implement the actions endorsed by the Single Sky Committee to consolidate the steering process for early deployment activities, as test bed for the governance mechanisms to be implemented, and ensure its continuation up to the establishment of the future deployment governance (January 2012). This will include the initialisation of an interim deployment programme (March 2012)".~~

~~The IDSG was established in February 2012 as a response to the above action. In its plenary configuration, it consists of designated experts from the civil and military representatives of the States within the SES area and also from the relevant ATM operational stakeholders (ANSPs, Airspace users, Airports, the Network Manager (NM)), the EASA, and the SJU<sup>5</sup>. The IDSG also meets in a technical configuration, called Expert Team, in order to perform detailed analysis and prepare the reports to the~~

<sup>3</sup> EC letter Ref 1281337/29 Oct 2012.

<sup>4</sup> COM(2011) 923 final

<sup>5</sup> "Interim Deployment Steering Group Rules of Procedure", European Commission Ref. Ares(2012)156650 - 10/02/2012, articles 3.1, 3.2 and 3.3.

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~~Single Sky Committee for positive opinion. In this configuration, membership is extended to experts from the manufacturing industry<sup>6</sup>.~~

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~~Intensive work between the various players with three plenary sessions<sup>7</sup> and 6 technical meetings<sup>8</sup> and, in between, webex and bilateral/multilateral working sessions have resulted in the establishment of this document which constitutes an expert assessment for the "best possible" selection of critical early implementation activities, in view of synchronisation and coordination, pending the establishment of the future governance and its financial mechanisms.~~

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~~It should be underlined that this joint effort, using the European ATM Master Plan as main input, has enabled progress on two major directions:~~

- ~~• A pragmatic prioritisation of current ongoing deployment activities, for the purpose of steering and monitoring within the limited timeframe of the IDSG (2012-2014);~~
- ~~• A project oriented platform for connecting — in a harmonised and consolidated way — with already on-going, planned or at least decided local deployment activities contributing to the above priorities.~~

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~~It is also worth observing that, due to having started from mature agreed implementation activities and having considered priorities derived from optimising the operation and performance of the European ATM Network, the resulting IDP is considered as having an overall positive effect on the Network as well as benefit to cost ratio. Additional consideration to potential early benefits, at local, regional or Network level will be given when detailing the applicability area and timing for the various IDP components. Therefore, looking at mitigating this request for improvement, the IDSG is now presenting IDP version 2.0, whereby:~~

- ~~• The description of the various activities in Chapter 6 was improved~~
- ~~• The proposed geographical applicability (highlighting better the expected involvement of the MIL) of the IDP and associated timing is included at Attachment, together with an updated consolidated Gantt chart~~

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~~For the sake of completeness, Chapters 3, 4 and 5 of the first IDSG Intermediate Report were also retained.~~

### 3. The initial selection of priority actions for IDP

<sup>6</sup> "Interim Deployment Steering Group Rules of Procedure", European Commission Ref. Ares(2012)156650 - 10/02/2012, articles 3.4.

<sup>7</sup> 29 February, 23 May and 12 September 2012

<sup>8</sup> 12 March, 26 April, 22 May, 21 June, 24 July and 5 September 2012

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As the first major deliverable expected from the IDSG was the IDP, the IDSG started working on the selection of deployment priorities to be included in such a Programme.

As reported at SSC/46, and using the Master plan as main input, in particular the operational changes in the SESAR baseline identified as essential<sup>9</sup>, the initial selection was conducted according to the following criteria:

- Network Performance impact;
- Network Operations impact;
- Synchronisation needs;
- Relevance with regard to existing Regulations;
- Alignment with baseline's essential changes;
- Maturity for continuing/initiating deployment within the IDSG timeframe (2012-2014).

It was further agreed to start from mature validated deployment objectives described in the ESSIP (as the third layer of the Master plan), complemented by additional actions consistent with the Master plan and derived from the Network Strategy plan (NSP) identified by the NM as critical for network performance or proposed by the participating stakeholders.

The initial assessment resulted in the selection of seven core ESSIP priorities and four additional priorities, as per the tables below<sup>10</sup>:

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<sup>9</sup> Draft Edition 2 of the Master Plan, chapters 3.3 and 3.4

<sup>10</sup> The seven core priorities have been agreed at IDSG/2 on 23 May 2012. The 4 additional priorities derive from comments received after IDSG/2 as well as discussions during the 4<sup>th</sup> meeting of the Expert Team on 21 June 2012. IDSG has been informed of the 4 additional priorities through an email dated 25 June 2012.

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| <b>ESSIP Reference</b> | <b>Description</b>  |
|------------------------|---|
| NAV 03                 | Implementation of P-RNAV  |
| FCM 03                 | Implement collaborative flight planning                           |
| AOP 05                 | Implement Airport Collaborative Decision Making (CDM)             |
| NAV 10                 | Implement APV procedures  |
| ITY-AGDL               | Initial ATC air-ground data link services above FL-285            |
| AOM 19                 | Implement Advance Airspace Management                             |
| ITY-COTR               | Implementation of ground-ground automated co-ordination processes |

Table 1 – **initial core priorities table**

| <b>ESSIP/ OI Reference</b> | <b>Description</b>   |
|----------------------------|--|
| ATC 15                     | Implement, in En-Route operations, information exchange mechanisms, tools and procedures in support of Basic AMAN operations |
| ENV 01                     | Implement Continuous Descent Approach (CDA) techniques for environmental improvements  |
| AOM-0703                   | Continuous Climb Operations  |
| AOM-13.1                   | Harmonize Operational Air Traffic (OAT) and General Air Traffic (GAT) handling   |

Table 2 – **additional priorities table**

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#### 4. Methodology for developing the project view

In order to move consistently from the *planning view* in the Master plan for the agreed priorities to a *project view*, the IDSG agreed at its second meeting on 23 May 2012 a 5 step methodology. The methodology is based on the analysis of the Stakeholders' line of actions (SLoAs) underpinning each priority identified at stakeholder level, in order to configure a set of deployment projects to be eventually synchronised among all the stakeholders involved:

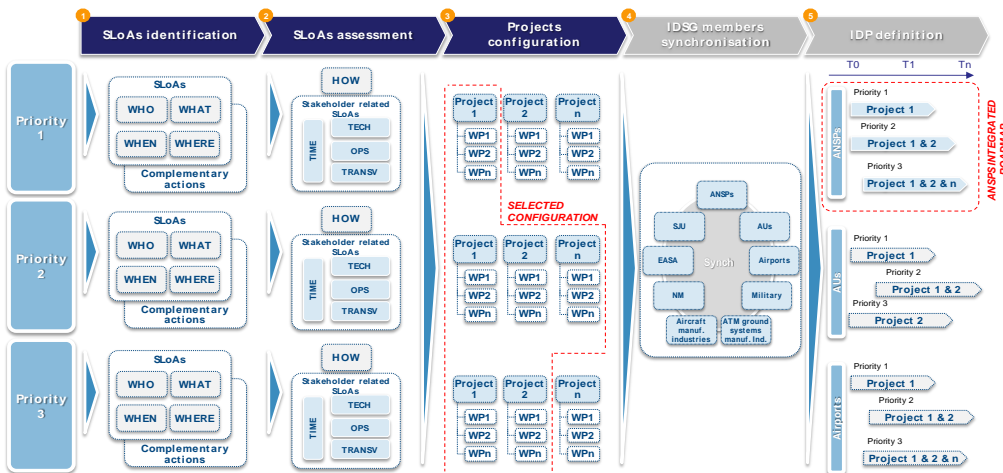


Figure 1 – Methodology overview

#### 5. IDP Work Breakdown Structure (WBS)

Consistent with the agreed methodology, a detailed analysis of the relevant SLoAs and needed complementary actions was performed for each of the core and additional initial priorities, in order to clearly identify:

- The stakeholders involved (WHO?);
- The objectives pursued (WHAT?);
- The timeframe reported in the ESSIP (WHEN?);
- The geographical scope (WHERE?).



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The work performed led to the identification, within each ESSIP priorities, of the critical Stakeholder Lines of Action (SLoA) to focus on, and to the integration of the complementary actions agreed at IDSG ET level.

Following on, a detailed analysis of the potential content was performed, looking at the **technological, operational and transversal** aspects.

As a result of this analysis, and of the associated content reconfiguration into coherent projects, the (7+4) priorities have been consolidated into seven Activity Areas as the potential backbone of the IDP:

| Activity Number | Description  | Priority Reference    |
|-----------------|--|-----------------------|
| 1               | Collaborative Flight Planning and Demand/Capacity Balancing Tools                    | FCM03 + DCB-0205      |
| 2               | Airspace Management Improvements and Data sharing                                    | AOM19+AOM20+AOM13.1   |
| 3               | Airport CDM  | AOP05                 |
| 4               | Air-Ground Data Link   | ITY-AGDL              |
| 5               | Automated assistance to controllers for seamless coordination, transfer and dialogue | ITY-FMTP +ATC15+ATC17 |
| 6               | RNP approaches   | NAV10                 |
| 7               | CDO/CCO application  | ENV01+AOM0703         |

Table 3 – Proposed IDP Activity Areas table

In this analysis –leading to the definition of the seven activity areas-, the content of the priority ESSIP objectives/ OI steps listed in paragraph 3 has been thoroughly reviewed, such that only the elements critical for deployment/synchronisation in conjunction with the IDP timeframe (2012-2014) have been kept, resulting into the dropping of two of the original core priority ESSIP objectives as such and the addition of (part of) other ESSIP objectives/OI steps to build consistent projects.

The additional ESSIP objectives/OI steps are:

- ATC17 Electronic Dialogue as Automated Assistance to Controller during Coordination and Transfer
- AOM20 Implement ATS Route Network (ARN) - Version 7
- ITY-FMTP Apply a common flight message transfer protocol (FMTP)
- DCB-0205 Short Term ATFCM Measures

The ESSIP objectives that have been dropped are:

- NAV03 Implementation of Precision Area Navigation RNAV (P-RNAV)
- ITY COTR Implementation of ground-ground automated co-ordination processes

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In the same time, through intensive collaboration between the NM, the ANSPs, the Military, the Airspace Users and the Airports representatives, the content was reconfigured to form a Work Breakdown Structure (WBS) including the contributions from all parties. This WBS represents the most effective and feasible work structure as identified by the experts within each organisation, consisting of seven Activity Areas in a three layers configuration:

- Activity Areas
- Work Packages (WPs)
- Sub-Work Packages (sWPs)

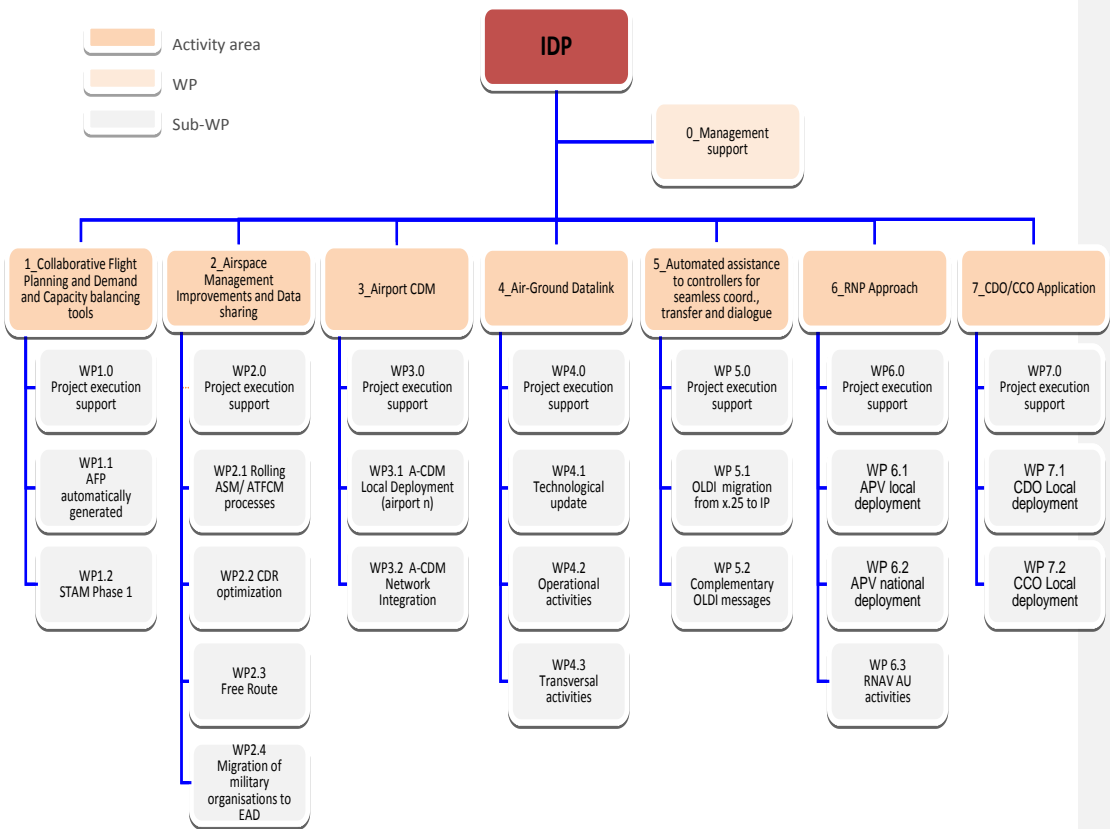


Figure 2– Proposed IDP WBS

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An initial mapping between the proposed IDP Activity Areas and the SESAR Key features is presented in Figure 3 below. This has to be considered as based on the most relevant interdependences and in relation with the expected timeframe of the IDP.

|  | Moving from Airspace to 4D trajectory | Traffic Synchronisation | Network Collaborative Mgmt and Planning | SWIM        | Airport Integration and Throughput | Conflict Mgmt and Automation |
|--|---------------------------------------|-------------------------|---|-------------|------------------------------------|------------------------------|
| <b>1. Collaborative FP</b>                   | Red                                   | Light Green             | Red                                     | Red         | Light Green                        | Light Green                  |
| <b>2. Airspace Mgmt</b>                      | Red                                   | Light Green             | Red                                     | Red         | Light Green                        | Light Green                  |
| <b>3. Airport CDM</b>                        | Light Green                           | Light Green             | Light Green                             | Light Green | Red                                | Light Green                  |
| <b>4. AGDL</b>                               | Red                                   | Light Green             | Light Green                             | Light Green | Light Green                        | Light Green                  |
| <b>5. Automated assistance to Controller</b> | Light Green                           | Red                     | Light Green                             | Red         | Light Green                        | Red                          |
| <b>6. RNP Approaches</b>                     | Red                                   | Light Green             | Light Green                             | Light Green | Red                                | Red                          |
| <b>7. CDO/CCO</b>                            | Red                                   | Light Green             | Light Green                             | Light Green | Red                                | Light Green                  |

Figure 3– draft IDP WBS mapping to SESAR Key Features

## 6. IDP details and Gantt chart

The level of detail of the WBS and Gantt charts proposed has been identified on the basis of the following considerations:

- A programme management perspective should be taken, which implies the avoidance of “micro-management” activities
- The level of granularity should be appropriate to the monitoring needs in the execution phase
- A “consistent view” should be ensured for all the projects developed

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It is to be noted that the WBS and Gantt charts shall be detailed further during the execution ~~phase~~phase in the light of specific needs, including with specific tasks for MIL and other type of stakeholders when specific needs are identified.

~~IDP version 2.0; and in particular completed with~~introduces the elements related to geographical applicability and consequent recommended timing, such as to enable the IDSG to monitor the evolution and recommend eventual corrections.

Furthermore, as it can be noted in the proposed IDP WBS, a Management Support work package has been included at Programme level. Such WP refers to “programme management” support activities to be performed at IDSG ET level, such as the following:

- IDP related projects identification and monitoring;
- Support in the identification of delays, risks and issues;
- Support in the definition, adoption, submission to the relevant actors and monitoring of recommendations from the IDSG with the objective to mitigate those delays, risks and issues ;
- Support in the management of internal and external communication processes.

It is important to stress that such management support WP differs from the Project Execution WPs included within each project, which are mostly characterized by the Statement of work of each single project together with a high level analysis on the expected implementation benefits and by the technical support activities.

### **6.1 Collaborative Flight Planning and Demand and capacity balancing tools**

In order to implement Collaborative flight planning and Demand and capacity balancing tools, two main threads have been envisaged as relevant:

- **WP1.1 – AFP automatically generated**

The automatic provision and processing of updated flight plan information is a key enabler to the enhancement of collaborative flight planning. As the actions related to the implementation of a number of ATC Flight Plan Proposal (AFP) messages are deemed as a priority, thus a specific WP has been foreseen. The related actions consist in the implementation of the automatic generation of AFP messages in ADEXP format.

- **WP 1.2 - STAM Phase 1**

It was also recognized the importance of a dedicated WP for Short-term ATFCM measures (STAMs). The implementation of such measures in terms of minor ground delays, flight level capping and minor re-routings applied to a limited

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number of flights can reduce the complexity of anticipated traffic peaks enabling network benefits. STAM phase 1 initial deployment will address the use of Occupancy counts for the monitoring of sector configuration instead of Entry counts, as well as of procedures for manual implementation of STAM measures and relevant training.

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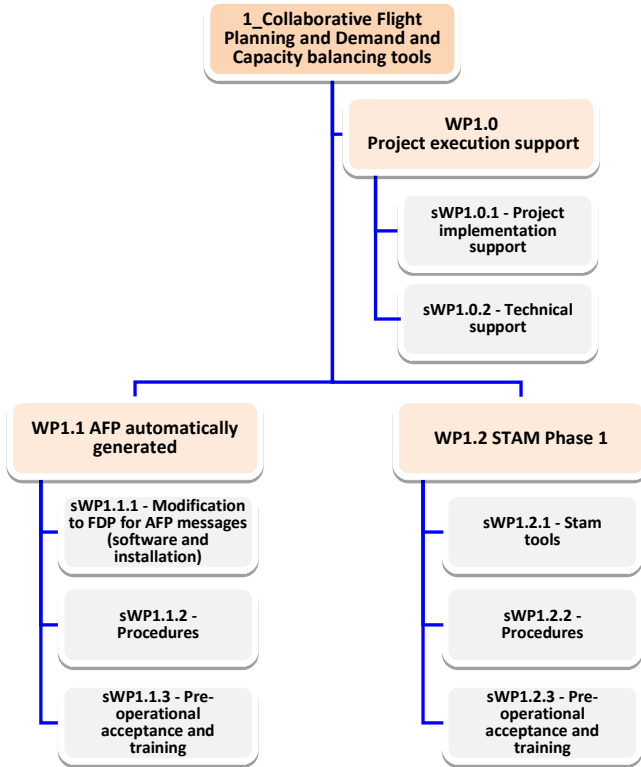


Figure 4– Collaborative Flight Planning and Demand Capacity balancing Tools WBS

The following Gantt chart reports the details of the activities foreseen within each SWP identified:

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| Task ID | Task Name  | Resource Names |
|---------|--|----------------|
| 3       | <b>1_Collaborative Flight Planning and Demand and Capacity balancing tools</b>     |                |
| 4       | <b>WP1.1 AFP automatically generated</b>   |                |
| 5       | <b>sWP1.1.1 - Modification to FDP for AFP messages (software and installation)</b> |                |
| 6       | Provide AFP message for missing flight plans                                       | ANSP           |
| 7       | Provide AFP message for change of route  | ANSP           |
| 8       | Provide AFP message for diversion  | ANSP           |
| 9       | Provide AFP message for change of Aircraft Type                                    | ANSP           |
| 10      | Provide AFP message for change of Aircraft Equipment                               | ANSP           |
| 11      | Check of the correctness of received AFP   | NM             |

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| 12 | <b>sWP1.1.2 – Procedures</b>  |              |
| 13 | Procedures  | ANSP         |
| 14 | <b>sWP1.1.3 – Pre-operational acceptance and training</b>                                       |              |
| 15 | Safety assessment   | ANSP         |
| 16 | Pre-operational acceptance  | ANSP         |
| 17 | Training  | ANSP         |
| 18 | <b>WP1.2 STAM Phase 1</b>   |              |
| 19 | <b>sWP1.2.1 – Stam tools</b>  |              |
| 20 | Availability of CHMI  | ANSP, AU     |
| 21 | Availability of IP network for connections with NM  | ANSP, AU     |
| 22 | Capacity balancing tool via CHMI  | NM           |
| 23 | STAM network view for the Aus   | NM, ANSP, AU |
| 24 | Dynamic Demand and Capacity balancing tools via NOP   | NM           |
| 25 | Integration of ANSPs sector and traffic occupancy parameters data into NM systems               | NM, ANSP     |
| 26 | <b>sWP1.2.2 – Procedures</b>  |              |
| 27 | Procedures (e.g. occupancy counts, local manual STAM measures, sector configuration adaptation) | ANSP, AU, NM |
| 28 | <b>sWP1.2.3 – Pre-operational acceptance and training</b>                                       |              |
| 29 | Safety assessment   | ANSP         |
| 30 | Pre-operational Acceptance  | ANSP         |
| 31 | Training  | NM, ANSP     |
| 32 | <b>WP1.0 Project execution support</b>  |              |
| 33 | <b>sWP1.0.1 – Project implementation support</b>  |              |
| 34 | <b>sWP1.0.2 – Technical support</b>   |              |
| 35 | <b>Collaborative Flight Planning and Capacity Demand balancing tools implemented</b>            |              |

Table 4– Collaborative Flight Planning and Demand Capacity Tools Gantt

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## 6.2 Airspace Management Improvements and Data sharing

In order to implement the advanced airspace management improvements and data sharing, 4 main threads have been taken into account:

- **WP2.1 Rolling ASM/ATFCM processes** affecting the ASM/ATFCM processes and its relevance on the network. That includes support through the rolling NOP and the B2B<sup>11</sup> services. In particular W.P 2.1.1 addresses the deployment of tools to support the rolling ASM/ATFCM processes. It includes tools to be deployed locally (ASM support tools) and tools at CNMF level (Airspace Data Repository-ADR) as well as their interoperability requirements. W.P 2.1.2 addresses the deployment of the relevant procedures.
- **WP2.2 CDR optimization** proposes rationalisation and further harmonisation ~~possible simplification~~ of CDR categories to improve airspace availability
- **WP2.3 Free Route** proposes the activities that have to be taken on board in order to bring tangible benefits to the overall European network. Several options will be prepared for implementation between NM, ANSP and FABs that could include, depending on the maturity level of developments: **Night** implementation of Free Route; **Week-end** or **24 hrs** (within ATCUs, cross border when possible between ATCUs within ANSPs in the same FAB or with adjacent FABs). All combinations of above cases can be envisaged depending on local capabilities. Cooperative deployment of those various phases spans from 2012 to 2019.
- **WP2.4 Migration of military organisations to the EAD** both as static and dynamic data provider and data user aims at harmonising military aeronautical information in Europe and optimising the exchange of aeronautical information in a future SWIM environment. This includes as pre-requisites the harmonisation of military AIP documents, a military extension of the AIXM 5 data model and EAD Static Data Operations to accommodate missing military data elements.

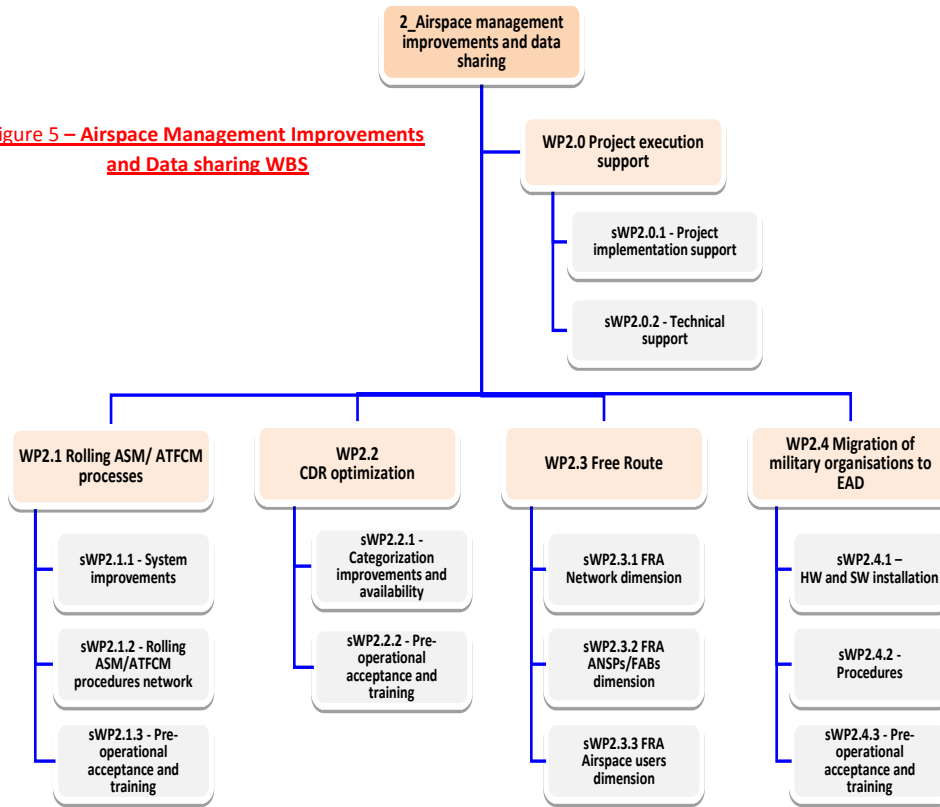
Figure 5— Airspace Management Improvements and Data sharing WBS

<sup>11</sup> Business to Business



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**Figure 5 – Airspace Management Improvements and Data sharing WBS**



The following Gantt chart reports the details of the activities foreseen within each SWP identified:

| Task ID | Task Name  | Resource Names                 |
|---------|--|--------------------------------|
| 36      | 2_Airspace management improvements and data sharing                                      |                                |
| 37      | WP2.1 Rolling ASM/ ATFCM processes   |                                |
| 38      | sWP2.1.1 – System improvements   |                                |
| 39      | ASM systems  |                                |
| 40      | ASM systems installation and deployment  | Civil & Mil. ANSP, Eurocontrol |
| 41      | Develop Airspace Status integration in AIXM B2B to be interoperable with ADR in AIXM 5.1 | Civil & Mil. ANSP, Eurocontrol |
| 42      | Performing the integration of ASM support systems with the Network                       | Civil & Mil. ANSP, Eurocontrol |
| 43      | Airspace Data Repository (ADR)   |                                |
| 44      | Operational ASM data download in AIXM 5.1 with live updates                              | Eurocontrol                    |
| 45      | Interoperability with ASM tools in AIXM 5.1  | Eurocontrol                    |

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| 46 | Publication of restrictions in AIXM 5.1 format via B2B | Eurocontrol |
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| <b>Task ID</b> | <b>Task Name</b>   | <b>Resource Names</b>          |
|----------------|--|--------------------------------|
| 47             | Interoperability between DNM database, official EAD data and DNM operational database (CACD) | Eurocontrol                    |
| 48             | Rolling NOP  |                                |
| 49             | Flight Plan filing capability directly via the NOP portal                                    | Civil & Mil. ANSP, Eurocontrol |
| 50             |  |                                |
| 51             | Management of AUP/UUP via B2B services   | Civil & Mil. ANSP, Eurocontrol |
| 52             | <b>sWP2.1.2 – Rolling ASM/ATFCM procedures</b>   |                                |
| 53             | Procedures – Draft AUP and UUPs including the submission to the NM                           | Civil & Mil. ANSP, Eurocontrol |
| 54             | Pre-defined Airspace Solutions   | Civil & Mil. ANSP, Eurocontrol |
| 55             | Implement Procedure 1 Coordination Process   | Civil & Mil. ANSP, Eurocontrol |
| 56             | Implement Procedure 2 Release of Mil airspace  | Civil & Mil. ANSP, Eurocontrol |
| 57             | Implement Procedure 3 Requests for unplanned Mil Activity (digital NOTAM implementation?)    | Civil & Mil. ANSP, Eurocontrol |
| 58             | Rolling ASM/ATFCM Procedures Development   | Civil & Mil. ANSP, Eurocontrol |
| 59             | Rolling ASM/ATFCM Procedures Deployed (ASM tools, ADR and rolling NOP)                       | Civil & Mil. ANSP, Eurocontrol |
| 60             | Submit UUP to CNFM   | Civil & Mil. ANSP, Eurocontrol |

| <b>Task ID</b> | <b>Task Name</b>  | <b>Resource Names</b>          |
|----------------|---|--------------------------------|
| 61             | <b>sWP2.1.3 – Pre-operational acceptance and training</b>                   |                                |
| 62             | Safety assessment   | Civil & Mil. ANSP              |
| 63             | Pre-operational Acceptance  | Civil & Mil. ANSP              |
| 64             | Training  | Civil & Mil. ANSP              |
| 65             | <b>WP2.2 CDR optimization (AOM19-ASP06)</b>                                 |                                |
| 66             | <b>sWP2.2.1 – Categorization improvements and availability</b>              |                                |
| 67             | CDR rationalization ( <del>reduction of CDR 3 and deletion of CDR 2</del> ) | Civil & Mil. ANSP, Eurocontrol |
| 68             | Procedures Development  | Civil & Mil. ANSP, Eurocontrol |
| 69             | CDR consistency achieved at national, bilateral & Sub-regional level        | Civil & Mil. ANSP, Eurocontrol |
| 70             | <b>sWP2.2.2 – Pre-operational acceptance and training</b>                   |                                |
| 71             | Safety assessment   | Civil & Mil. ANSP              |

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|    |                                       |                   |
|----|---------------------------------------|-------------------|
| 72 | Pre-operational Acceptance            | Civil & Mil. ANSP |
| 73 | Training                              | Civil & Mil. ANSP |
| 74 | <b>WP2.3 Free Route</b>               |                   |
| 75 | <b>sWP2.3.1 FRA Network dimension</b> |                   |

| <u>Task ID</u> | <u>Task Name</u>   | <u>Resource Names</u> |
|----------------|--|-----------------------|
| 76             | System improvements  |                       |
| 77             | Adaptations (tuning) of NM systems   | NM                    |
| 78             | ADR and Airspace Management tools (modelling, simulation) adapted to free routing  | NM                    |
| 79             | Procedures and processes   |                       |
| 80             | Identify the FRA airspace volume (Lateral and Vertical)  | NM, FAB, ANSP         |
| 81             | Identify FRA applicable time (not necessary H24 7/7)   | NM, FAB, ANSP         |
| 82             | Identify FRA exit entry points   | NM, FAB, ANSP         |
| 83             | Adapt Airspace design and ensure FRA horizontal and vertical connectivity  | NM, FAB, ANSP         |
| 84             | Network overview – connectivity consistency of FRA cross-border application  | NM, FAB, ANSP         |
| 85             | Adapt RAD applicability  | NM, FAB, ANSP         |
| 86             | ATFCM FRA procedures   | NM, FAB, ANSP         |
| 87             | <b>sWP2.3.2 FRA ANSPs/FABs dimension</b>   |                       |
| 88             | System improvements  |                       |
| 89             | Upgrade local ASM tools for free route operation ( NOP services of AUP/UUP)  | FAB, ANSP             |
| 90             | Upgrade FDP, if strictly required, to differentiate between different traffic type airspaces   | FAB, ANSP             |
| 91             | FDP capability, if strictly required, to support cross-border FRA operations (direct route beyond AoR, DCT clearances, random entry/exit points) | FAB, ANSP             |
| 92             | Upgrade local flight plan reception and handling, if required  | FAB, ANSP             |

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| <u>Task ID</u> | <u>Task Name</u>  | <u>Resource Names</u>   |
|----------------|---|-------------------------|
| 93             | Procedures and processes  |                         |
| 94             | Adapt the LoA with adjacent ATS units   | FAB, ANSP, NM           |
| 95             | Publish relevant data for FRA in AIP  | ANSP                    |
| 96             | Charts for FRA operations   | ANSP                    |
| 97             | Airspace management procedure for the implementation of free routes operation | FAB, ANSP, Military, NM |
| 98             | ASM Procedures for identifying and promulgating 'Free Route' areas            | FAB, ANSP, Military, NM |
| 99             | ATC procedures to cover free route co-ordination and                          | FAB, ANSP               |

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|     |   |           |
|-----|---|-----------|
|     | transfer of control, trajectory change in a free route environment, conflict detection            |           |
| 100 | Transversal activities  |           |
| 101 | Validate FRA concept (airspace organisation, ATC/ATFCM and ASM procedures, airspace restrictions) | FAB, ANSP |
| 102 | Train ATCOs on the application of FRA   | FAB, ANSP |
| 103 | Develop FRA Safety Case   | FAB, ANSP |
| 104 | <b>sWP2.3.3 FRA Airspace users dimension</b>  |           |
| 105 | System improvements   |           |

| <u>Task ID</u> | <u>Task Name</u>  | <u>Resource Names</u>      |
|----------------|---|----------------------------|
| 106            | Flight Planning system to support free routing  | NM,AU (AOC), ANSP          |
| 107            | Procedures and processes  |                            |
| 108            | Airline Operational Procedures for free route   | AU                         |
| 109            | Airline Operational Procedures to take into account airspace and traffic constraints when selecting a route | AU                         |
| 110            | Transversal activities  |                            |
| 111            | AOC training  | AU                         |
| 112            | <b>WP2.4 Migration of military organisations to EAD</b>   |                            |
| 113            | <b>sWP2.4.1 - HW and SW installation</b>  |                            |
| 114            | Hardware Installation (depending on chosen solution)  | Military ANSP, Eurocontrol |
| 115            | Connection to PENS  | Military ANSP, Eurocontrol |
| 116            | Software installation (EADPro or MyEAD)   | Military ANSP, Eurocontrol |
| 117            | <b>sWP2.4.2 - Procedures</b>  |                            |
| 118            | Procedures (e.g. signature of letter of intent, drafting migration and transition plan)                     | Military ANSP, Eurocontrol |
| 119            | <b>sWP2.4.3 - Pre-operational acceptance and training</b>   |                            |
| 120            | Safety assessment   | Military ANSP, Eurocontrol |
| 121            | Pre-operational Acceptance  | Military ANSP, Eurocontrol |
| 122            | Training  | Military ANSP, Eurocontrol |

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| <u>Task ID</u> | <u>Task Name</u>   | <u>Resource Names</u> |
|----------------|--|-----------------------|
| 123            | <b>WP2.0 Project execution support</b>                               |                       |
| 124            | <b>sWP2.0.1 - Project implementation support</b>                     |                       |
| 125            | <b>sWP2.0.2 - Technical support</b>                                  |                       |
| 126            | <b>Airspace management improvements and data sharing implemented</b> |                       |

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Table 5 – **Airspace Management Improvements and Data sharing Gantt**

|

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### 6.3 Airport CDM

In order to facilitate the monitoring of Airport CDM implementation, it has been envisaged that a standard set of activities that should be reiterated per each interested airport. The work is focusing on 6 elements of A-CDM as defined in the EUROCONTROL A-CDM guidance (i.e. Information sharing, Turn around process, Variable taxi times, Pre-departure sequencing, Adverse conditions and Collaborative management of flight updates)

In particular, the approach is to monitor the A-CDM implementation at airport level; therefore the described actions have to be applied for each relevant airport.

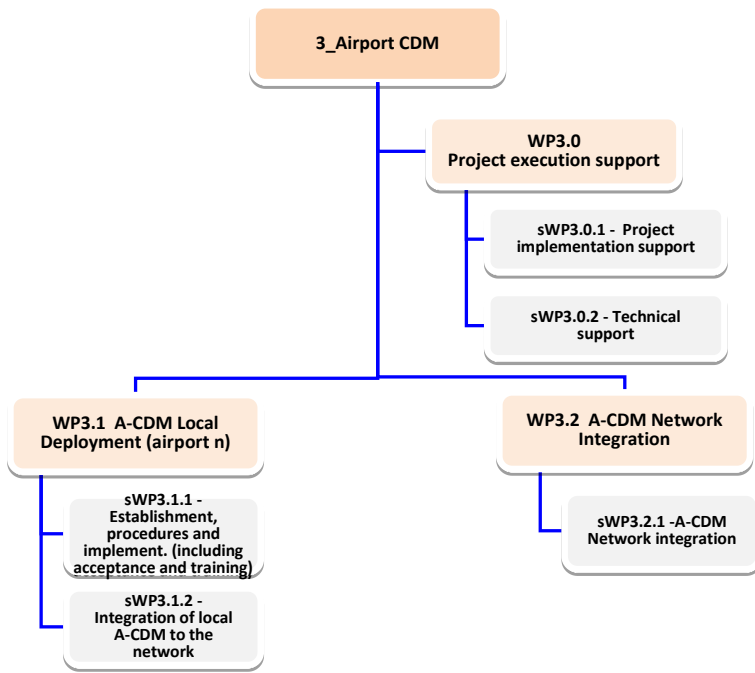


Figure 6 – Airport CDM WBS

The following Gantt chart reports the details of the activities foreseen within each SWP identified:

|             |  |
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| Task ID | Task Name  | Resource Names     |
|---------|--|--------------------|
| 127     | 3_Airport CDM  |                    |
| 128     | <b>WP3.1 A-CDM Local Deployment (airport: XYZ)</b>   |                    |
| 129     | <b>sWP3.1.1 - Establishment, procedures and implementation (including acceptance and training)</b>               |                    |
| 130     | A-CDM performance assessment and reporting   | ANSP, Airports, AU |
| 131     | Local A-CDM performance committee establishment  | ANSP, Airports, AU |
| 132     | Implement local procedures for turn around process   | ANSP, Airports, AU |
| 133     | Implement variable taxi-times and pre-departure sequencing procedures  | ANSP, Airports, AU |
| 134     | Implementation of local procedures for Information Sharing   | ANSP, Airports, AU |
| 135     | Implement local procedures for CDM in adverse conditions   | ANSP, Airports, AU |
| 136     | <b>sWP3.1.2 - Integration of local A-CDM to the network</b>  |                    |
| 137     | DPI implementation   | ANSP, Airports     |
| 138     | FUM implementation   | ANSP, Airports     |
| 139     | <b>WP3.2 A-CDM Network Integration</b>   |                    |
| 140     | <b>sWP3.2.1 -A-CDM Network integration</b>   |                    |
| 141     | Delivery of FUM message  | NM                 |
| 142     | Integration of DPI   | ANSP, Airports, NM |
| 143     | Integration of DPI (Airport XYZ)   |                    |
| 144     | <b>WP3.0 Project execution support</b>   |                    |
| 145     | <b>sWP3.0.1 - Project implementation support</b>   |                    |
| 146     | <b>sWP3.0.2 - Technical support (e.g. A-CDM harmonisation, ad-hoc support, maintenance of (common) training)</b> |                    |
| 147     | <b>Airport A-CDM implemented</b>   |                    |

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Table 6– Airport CDM Gantt

#### 6.4 Air-Ground Datalink

In order to rationalize the Air-Ground Datalink implementation approach, [in line-line with DLS Implementing Rule \(EC regulation 29/2009\)](#) the project has been divided in three main threads:

- **WP4.1 - Technological update** affects the technological area, encompassing A/G communication and ATC systems
- **WP4.2 – Operational activities** is based on the operational needs
- **WP4.3 – Transversal activities** concerns the acceptance and training activities

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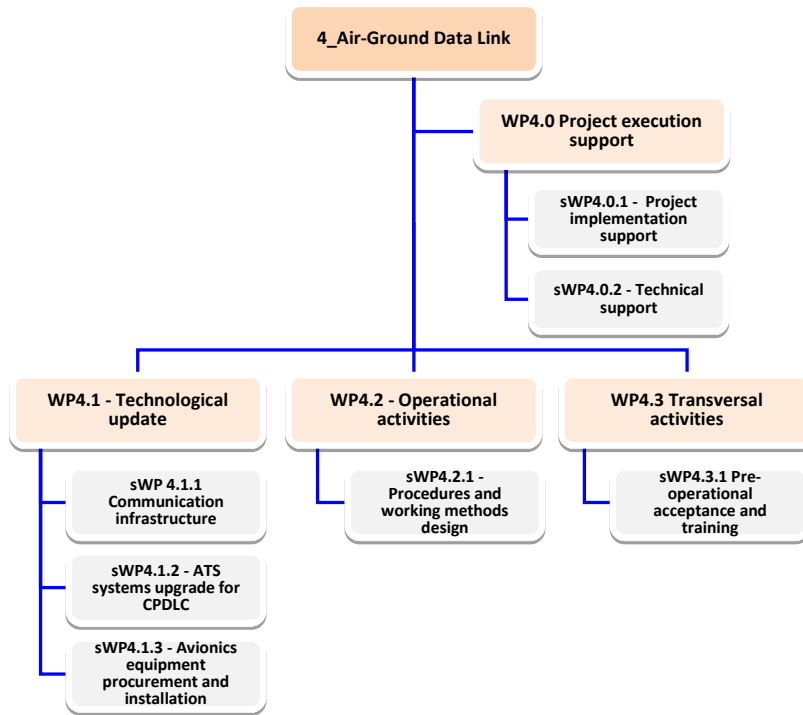


Figure 7– Air-Ground Datalink WBS

The following Gantt chart reports the details of the activities foreseen within each SWP identified:

| Task ID | Task Name  | Resource Names |
|---------|--|----------------|
| 148     | 4_Air-Ground Data Link                                     |                |
| 149     | WP4.1 - Technological update                               |                |
| 150     | sWP4.1.1 - Communication infrastructure                    | ANSP           |
| 151     | A/G backbone installation (LINK TO ITY-AGDL-REG04)         | ANSP           |
| 152     | G/G backbone installation (ITY-AGDL-ASP03)                 | ANSP           |
| 153     | sWP4.1.2 - ATS systems upgrade for CPDLC                   | ANSP           |
| 154     | A/G Data Link front-end                                    | ANSP           |
| 155     | FDPS update (local and national)                           | ANSP           |
| 156     | OLDI module update (ITY-COTR ASP08 / ASP09)                | ANSP           |
| 157     | HMI update to enable CPDLC dialog with Pilot               | ANSP           |
| 158     | Test bed and simulators update                             | ANSP           |
| 159     | sWP4.1.3 - Avionics equipment procurement and installation |                |
| 160     | Avionics procurement                                       | AU, Military   |
| 161     | Retrofit: Avionics installation                            | AU, Military   |



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| Task ID | Task Name   | Resource Names     |
|---------|---|--------------------|
| 162     | <b>WP4.2 - Operational activities</b>   |                    |
| 163     | <b>sWP4.2.1 - Procedures and working methods design</b>                                 | ANSP               |
| 164     | Operational agreements (ACC LoAs, contingency)  | ANSP               |
| 165     | AIS (ITY-AGDL-REG03)  | ANSP               |
| 166     | Operational Deployment of Data Link Services (including cockpit operational procedures) | ANSP, AU, Military |
| 167     | <b>WP4.3 Transversal activities</b>   |                    |
| 168     | <b>sWP4.3.1 Pre-operational acceptance and training</b>                                 |                    |
| 169     | Safety assessment   | ANSP, AU           |
| 170     | Pre-operational acceptance  | ANSP, AU           |
| 171     | Training  | ANSP, AU           |
| 172     | <b>WP4.0 Project execution support</b>  |                    |
| 173     | <b>sWP4.0.1 - Project implementation support</b>  |                    |
| 174     | <b>sWP4.0.2 - Technical support</b>   |                    |
| 175     | <b>Air Ground Data Link implemented</b>   |                    |

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Table 7– Air-Ground Datalink Gantt

### 6.5 Automated assistance to controllers for seamless coordination, transfer and dialogue

In order to implement the Automated assistance to controllers for seamless coordination, transfer and dialogue block, two main threads have been identified:

- **WP5.1 – OLDI migration from x.25 to IP** entails the installation of OLDI module in the ACCs, and the upgrade of Communication Systems from IPV4 to IPV6 [in line with the relevant EC regulations \(Reg. 633/2007 and 283/2011\)](#).
- **WP5.2 – Complementary OLDI migration messages** aims at putting in place systems updates as well as procedures to implement complementary OLDI messages

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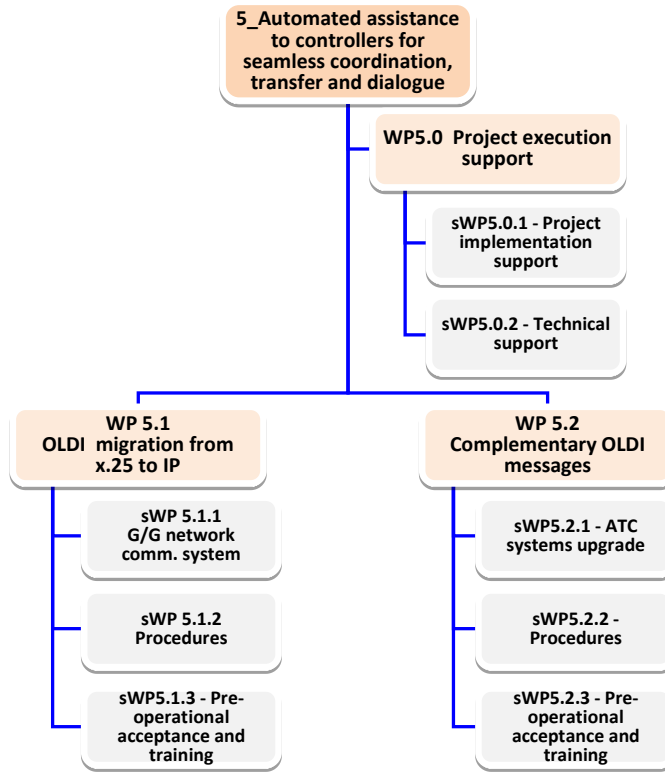


Figure 8 – Automated assistance to controllers for seamless coordination, transfer and dialogue WBS

The following Gantt chart reports the details of the activities foreseen within each SWP identified:

| Task ID | Task Name  | Resource Names |
|---------|--|----------------|
| 176     | 5_Automated assistance to controllers for seamless coordination, transfer and dialogue |                |
| 177     | WP5.1 OLDI migration from X.25 to IP   |                |
| 178     | sWP5.1.1 - G/G network communication systems   |                |
| 179     | Upgrade of G/G network communication systems   | ANSP           |
| 180     | Upgrade of OLDI module (where applicable)  | ANSP           |
| 181     | Manage transition from IP v.4 to IP v.6  | ANSP           |
| 182     | sWP5.1.2 - Procedures  |                |
| 183     | Procedures   | ANSP           |
| 184     | sWP5.1.3 - Pre-operational acceptance and training                                     |                |
| 185     | Safety assessment  | ANSP           |
| 186     | Pre-operational acceptance   | ANSP           |
| 187     | Training   | ANSP           |

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| Task ID | Task Name  | Resource Names  |
|---------|--|-----------------|
| 188     | <b>WP5.2 Complementary OLDI messages</b>   |                 |
| 189     | sWP5.2.1 - ATC systems upgrade   |                 |
| 190     | Support to basic procedures (plus COD where applicable)  | ANSP            |
| 191     | Support to transfer of communication process   | applicable ANSP |
| 192     | Support to Coordination dialogue   | applicable ANSP |
| 193     | AMAN data exchange (AMA)   | applicable ANSP |
| 194     | <b>sWP5.2.2 - Procedures</b>   |                 |
| 195     | Operational procedures and bilateral coordination  | ANSP            |
| 196     | Working methods  | ANSP            |
| 197     | <b>sWP5.2.3 - Pre-operational acceptance and training</b>  |                 |
| 198     | Safety assessment  | ANSP            |
| 199     | Pre-operational acceptance   | ANSP            |
| 200     | Training   | ANSP            |
| 201     | <b>WP5.0 Project execution support</b>   |                 |
| 202     | sWP5.0.1 - Project implementation support  |                 |
| 203     | sWP5.0.2 - Technical support   |                 |
| 204     | Automated assistance to controllers for seamless coordination, Transfer and Dialogue implemented |                 |

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Table 8– Automated assistance to controllers for seamless coordination, transfer and dialogue Gantt

### 6.6 RNP Approach

In order to implement RNP approach, three main threads have been envisaged as relevant:

**WP6.1 – APV local deployment** relates to the deployment of two APV solutions at local level, both concerning APV/Baro and APV/SBAS

**WP6.2 – APV national deployment** relates to the operational activities linked to the identification and deployment of Radio-navigation Plan

**WP6.3– RNAV AU activities** concerns the procurement and installation of the avionics equipment, and the related operational and transversal activities

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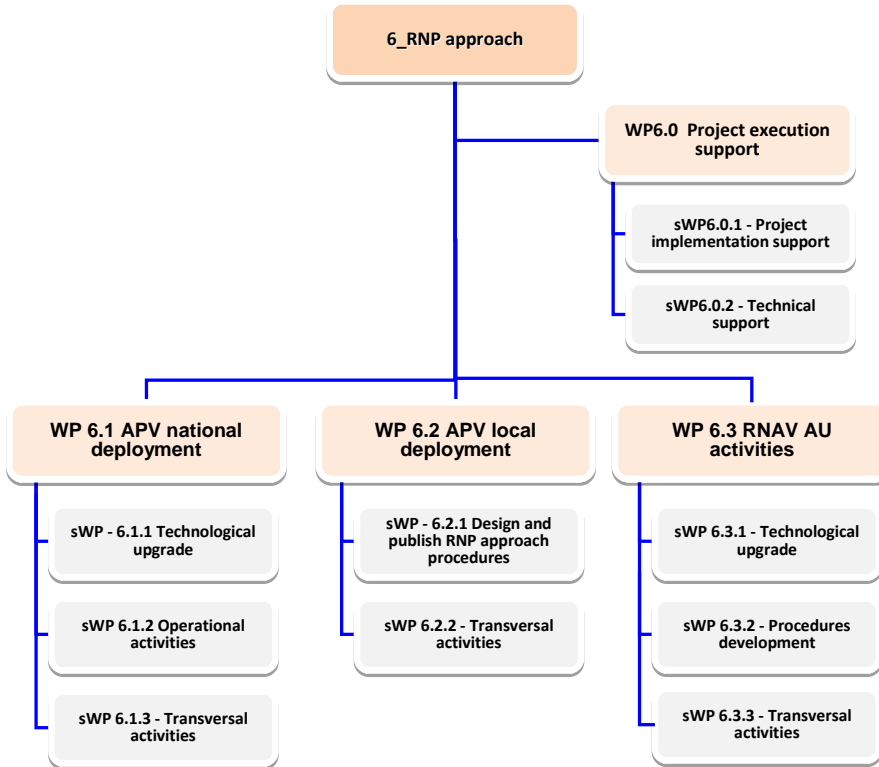


Figure 9 – RNP Approach WBS

The following Gantt chart reports the details of the activities foreseen within each SWP identified:

| Task ID | Task Name   | Resource Names |
|---------|---|----------------|
| 205     | 6_RNP approach  |                |
| 206     | WP 6.1 APV national deployment  |                |
| 207     | sWP - 6.1.1 Technological upgrade   |                |
| 208     | Define a minimal conventional navigation equipments network (to be notified with sufficient notice) | ANSP           |
| 209     | Create or adapt a procedure design tool compliant for RNP and validate it                           | ANSP           |
| 210     | sWP 6.1.2 Operational activities  |                |
| 211     | Identify a national RNP approach deployment plan according to priority criteria                     | ANSP           |
| 212     | Cross check optimisation with NAVAIDS decommissioning plan  | ANSP           |
| 213     | sWP 6.1.3 - Transversal activities  |                |
| 214     | Develop generic national safety case for RNP approaches   | ANSP           |

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| Task ID    | Task Name  | Resource Names     |
|------------|--|--------------------|
| <b>215</b> | <b>WP 6.2 APV local deployment</b>   |                    |
| <b>216</b> | <b>sWP - 6.2.1 Design and publish RNP approach procedures</b>                |                    |
| <b>217</b> | Design APV/BARO and/or APV/SBAS operations                                   | ANSP               |
| <b>218</b> | Publish procedure  | ANSP               |
| <b>219</b> | <b>sWP 6.2.2 - Transversal activities</b>                                    |                    |
| <b>220</b> | Local consultations  | ANSP, AU, airports |
| <b>221</b> | Safety assessment  | ANSP               |
| <b>222</b> | Training   | ANSP, AU           |
| <b>223</b> | <b>WP 6.3 RNAV AU activities</b>   |                    |
| <b>224</b> | <b>sWP 6.3.1 - Technological upgrade</b>                                     |                    |
| <b>225</b> | Check availability of technical solutions for used aircraft types            | AU                 |
| <b>226</b> | Procure equipment according individual AU business CBA (link with sWP 6.3.3) | AU                 |
| <b>227</b> | Installation and airworthiness approval of equipment                         | AU                 |
| <b>228</b> | <b>sWP 6.3.2 - Procedures development</b>                                    |                    |
| <b>229</b> | Develop procedures for RNAV approaches                                       | AU                 |
| <b>230</b> | Integrate procedures into operational manuals                                | AU                 |
| <b>231</b> | <b>sWP 6.3.3 - Transversal activities</b>                                    |                    |
| <b>232</b> | Individual AU business CBA   | AU                 |
| <b>233</b> | Safety assesment   | AU                 |
| <b>234</b> | Training   | AU                 |
| <b>235</b> | Communication/ rising of awareness of crews and operational people           | AU                 |
| <b>236</b> | <b>WP6.0 Project execution support</b>                                       |                    |
| <b>237</b> | <b>sWP6.0.1 - Project implementation support</b>                             |                    |
| <b>238</b> | <b>sWP6.0.2 - Technical support</b>  |                    |
| <b>239</b> | <b>RNP approach implemented</b>  |                    |

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Table 9 – RNP Approach Gantt

### 6.7 Continuous Descent / Continuous Climb Operations (CDO/CCO) Application

In order to implement Continuous Descent Operation (CDO) and Continuous Climb Operation (CCO) Applications, two main threads have been envisaged as relevant: CDO Local Deployment and CCO Local Deployment.

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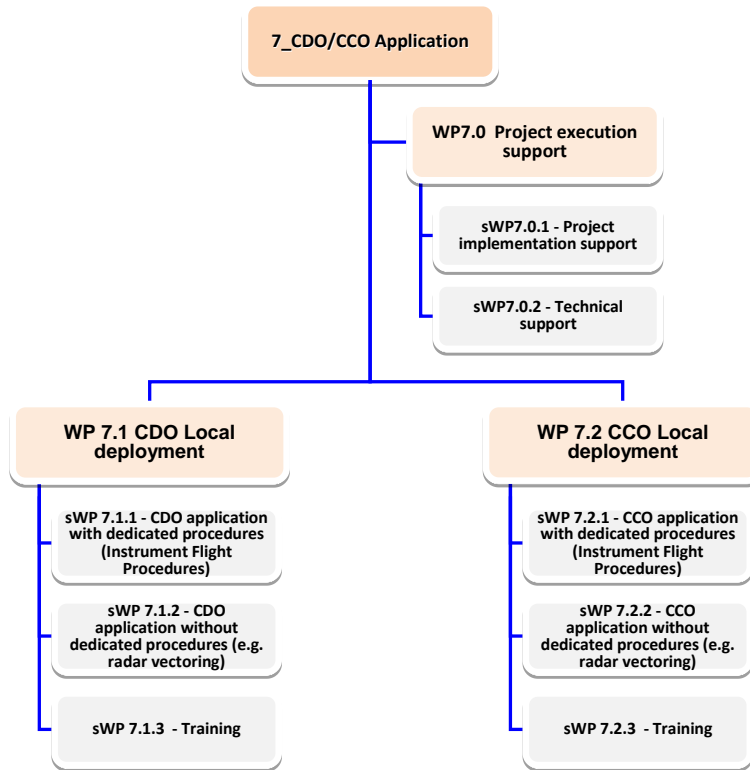


Figure 10 – CDO/CCO Application WBS

The following Gantt chart reports the details of the activities foreseen within each SWP identified:

| Task ID | Task Name   | Resource Names |
|---------|---|----------------|
| 240     | 7_CDO/CCO Application   |                |
| 241     | WP 7.1 CDO Local deployment (Airport XYZ)   |                |
| 242     | sWP 7.1.1 - CDO application with dedicated procedures (Instrument Flight Procedures)        |                |
| 243     | Design CDOps procedures   | ANSP           |
| 244     | Coordinate trials with one or more airlines via Customer Care meetings                      | ANSP, AU       |
| 245     | Coordinate trials and procedures with adjacent ATS Units, when necessary                    | ANSP           |
| 246     | Completion of trials and benefits evaluation  | ANSP, AU       |
| 247     | Inform the airlines about the possibility of performing CDOps and publish procedures in AIP | ANSP, AU       |
| 248     | sWP 7.1.2 - CDO application without dedicated procedures (e.g. radar vectoring)             | ANSP           |
| 249     | sWP 7.1.3 - Training  | ANSP, AU       |

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| Task ID | Task Name   | Resource Names  |
|---------|---|-----------------|
| 250     | <b>WP 7.2 CCO Local deployment (Airport XYZ)</b>  |                 |
| 251     | sWP 7.2.1 - CCO application with dedicated procedures (Instrument Flight Procedures)        |                 |
| 252     | Design CCOps procedures   | ANSP            |
| 253     | Coordinate trials with one or more airlines via Customer Care meetings                      | ANSP, AU        |
| 254     | Coordinate trials and procedures with adjacent ATS Units, when necessary                    | ANSP            |
| 255     | Completion of trials and benefits evaluation  | ANSP, AU        |
| 256     | Inform the airlines about the possibility of performing CCOps and publish procedures in AIP | ANSP, AU        |
| 257     | <b>sWP 7.2.2 - CCO application without dedicated procedures (e.g. radar vectoring)</b>      | <b>ANSP</b>     |
| 258     | <b>sWP 7.2.3 - Training</b>   | <b>ANSP, AU</b> |
| 259     | <b>WP7.0 Project execution support</b>  |                 |
| 260     | <b>sWP7.0.1 - Project implementation support</b>  |                 |
| 261     | <b>sWP7.0.2 - Technical support</b>   |                 |
| 262     | <b>CDO/CCO Application implemented</b>  |                 |

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Table 11 – CDO/CCO Application Gantt

## 7. Next steps

Pending the opinion of the Commission and the consultation of the Single Sky Committee, ~~on the version 2.0 of the IDP, the IDSG will continue to refine the draft IDP as described in the chapters 5 and 6 above. In particular, it is foreseen that by early October 2012, the Gantt charts developed per each IDP project, will be further fine-tuned and completed, including details related to the geographical applicability for the various Activity Areas as well as with the respective implementation dates reported by all the stakeholders involved.~~

~~In this way initiate, the execution and monitoring of the programme will be facilitated and it will also be possible to clearly define when specific deployment items could be implemented and put in operation at inter-stakeholder level, enabling deployment improvements.~~

~~Beyond these final refinements of the IDP and its adoption by the IDSG, subject to Commission's positive opinion, the most crucial next step will consist into the launch of the execution of the programme itself by the IDSG consisting into the steering – mainly through recommendations – and the monitoring of the activities by the relevant stakeholders as identified in the IDP. This will imply connecting between the "theoretical" activities identified in the IDP as the ultimate result of the top-down approach derived from the Master plan (as explained in chapters 3 to 6 above) and "actual" activities and projects (already on-going or planned or decided). Through these~~

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connections, the IDP will "come to life" and the IDSG will be fed information on which it would base its monitoring reports and recommendations.

The IDSG has already initiated the assessment of the initial status of the IDP against planning references (ESSIP and NSP), looking at establishing a baseline for future project level monitoring.

## 8. Conclusions

~~Within approximately six months after being set up, the IDSG has established itself as a platform for collaborative support to the transitional mechanism for SESAR Deployment steering.~~

~~Sustained efforts of the various actors involved have resulted in the drafting of an Interim Deployment Programme (IDP) outline based on a commonly agreed prioritisation of the short-term deployment activities then translated in a comprehensive WBS and Gantt chart).~~

**Through this second intermediate report, the IDP outline-version 2.0, completed with the description of the proposed geographical applicability and associated timing, is submitted to the Commission to seek its opinion** in accordance with IDSG Rules of Procedure<sup>12</sup>. Upon positive opinion by the Commission, the IDP will constitute the main reference for IDSG's future work, aiming at steering and monitoring early SESAR deployment activities in direct support to the agreed priorities within the timeframe 2012-2014.

<sup>12</sup> "Interim Deployment Steering Group Rules of Procedure", European Commission Ref. Ares(2012)156650 - 10/02/2012, article 2.4