

From DLS Implementation Strategy to candidate Projects into the 2016 CEF Transport Calls

Brussels, 20th October 2016

H: 09:30 – 16:30 SESAR Deployment Manager Premises



Funded by the European Unior

✓ 09.30 – 09:45 - Welcome Address

(Massimo Garbini)

- ✓ 09:45 10.00 SESAR Deployment Manager role (Nicolas Warinsko)
- ✓ 10.00 10.15 Towards the Data Link Services (DLS) Recovery Plan (Mariagrazia La Piscopia)
- ✓ 10.15–11.00 Data Link Services (DLS) Recovery Plan:
 - Overview
 - Path I Implementation of the DLS transitional solution
 - Path II Preparatory activities towards the target solution
- ✓ 11.00 11.15 Coffee break
- ✓ 11.15 11.30 DLS Recovery Plan
 - Other required activities
 - SDM interfaces (Servane Woff-Lhuissier)
 - Global interoperability (Marita Lintener)





- ✓ 11.30 11.45 2016 CEF Transport Calls: overview (Mariagrazia La Piscopia)
- ✓ 11.45 12.30 Discussion
- ✓ 12.30 13.30 Lunch Time
- 13.30 15.00 Path I: DLS Projects in the Ground domain (Davide Corinaldesi)
- ✓ 15.00 16.00 Path I: DLS Projects in the Airborne Domain
- ✓ 16.00 16.15 Path II: Multistakeholder project
- ✓ 16.15 16.30 Closing Remarks (Nicolas Warinsko)





Welcome Address





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(Massimo Garbini)

09:45 - 10.00 – SESAR Deployment Manager role

(Nicolas Warinsko)

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SDM role

According to the DLS Recovery Plan and ELSA's Recommendation ref. "Network_Oversight 01" and supported by the Oss, it is SDM ambition to lead, combining the strength and opportunities from its 3 roles:

As SESAR Deployment Manager*

SDM is the unique reference for PCP implementation planning and monitoring, therefore in the best position to embed this Recovery Plan into the wider picture of AF6 and PCP implementation both from the planning and the realization perspectives



As DLS implementation project manager**

SDM will play a more active role from the management level into implementation level for what concerns DLS related projects being architect, facilitator, precursor



As SESAR deployment Framework Partnership Coordinator***

SDM has the unique opportunity to bridge between the role of DLS implementation project manager and being the coordinator of a cluster of DLS related projects

*Regulation (EU) No 409/2013, article 9

- ** In compliance with ELSA's recommendation Network Oversight 01", subject to mandate by the European Commission *
 - **Framework Partnership Agreement (FPA, art.1.1.1, II.1.3)







DLS implementation project manager



According to EC mandate, the SDM should now assume the **role of DLS implementation project manager** responsible for **organizing**, **implementing and monitoring the activities** identified in the recovery plan[...]. This role shall include:

- Identification of homogenous service areas starting from the analysis of the current situation in EU Member States;
- Definition of **target ground architecture** per service area in cooperation with the local stakeholders;
- Interconnection of sub-networks within each service area to achieve a European distributed network and a European common approach;
- **Updated CBA** and expected contribution to SES performance objectives.

SDM – as DLS project manager – shall facilitate the involvement of relevant stakeholders to ensure a coordinated submission of DLS IPs to the CEF Transport Calls for proposals, also enabling projects to stimulate establishment of a single European DLS governance





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(Mariagrazia La Piscopia)

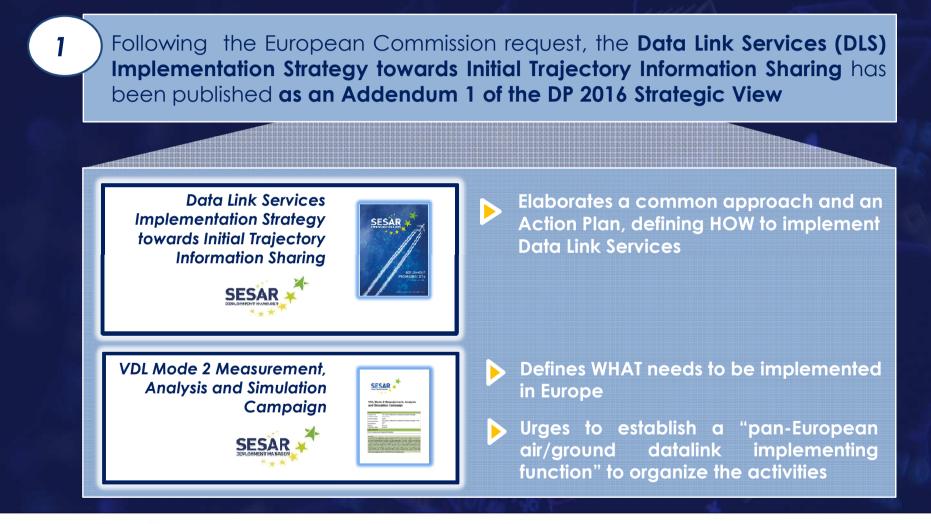
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Towards the DLS Recovery Plan (1/2)

From ELSA to DLS implementation Strategy







Towards the DLS Recovery Plan (2/2)

The Addendum 1, embedded in the DP 2016, has been approved in the framework of the second Specific Grant Agreement (SGA2) between the DG MOVE and the SDM, has been consulted through the Stakeholder Consultation Platform (SCP) and approved by the SDM SB.

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Following the Addendum 1 approval, the EC has requested SDM to extract from this Addendum 1 a "Recovery Plan to implement the necessary technological upgrades that will ensure a stable and reliable ATN/VDL Mode 2.

Data Link Services (DLS) Recovery Plan Translates the common approach and the action plan into typical required implementation projects

Approved by EC is the blue print for stakeholders to submit DLS related IPs to 2016 CEF Transport Calls





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10.15–11.00 - Data Link Services (DLS) Recovery Plan:

Overview

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DLS Recovery Plan as an extract of Addendum 1

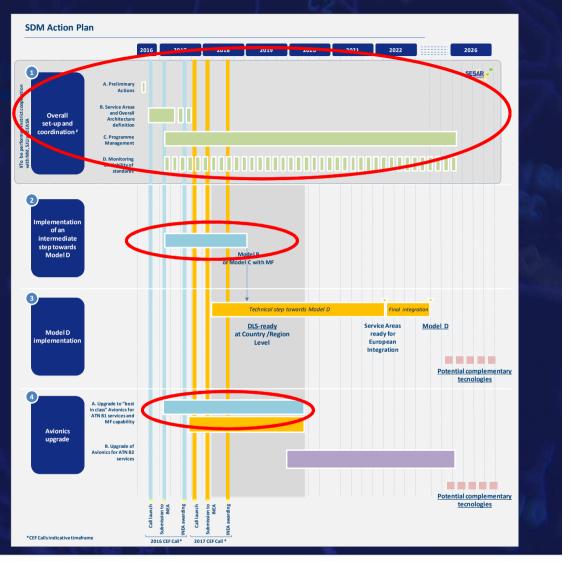


Following the EC request, the SDM has extracted from the SDM DLS implementation strategy, included in DP 2016, a Recovery Plan to implement data-link capability as a step towards AF6.

With regard to the SDM Action Plan, the figure illustrates on which streams (or part of them) the Recovery Plan is focused (red circles).

According to the Addendum 1, the DLS Recovery Plan provides preliminary high level principles elaborated to guide the civil and military operational Stakeholders in the submission of IP proposal for the 2016 CEF Transport Calls.







DLS Recovery Plan - overview

Path I – Implementation of the DLS transitional Solution

It aims at identifying the deployment activities needed to meet EU (IR) 310/2015 and ELSA's recommendations, focusing in particular on the envisaged transitional solutions (Model B or Model C with Multi Frequency (MF)).

Path II – Preparatory activities towards the target solution

It aims at identifying the steps towards the envisaged target solution in order to grant the required performances needed to achieve full AF6 implementation.



SESA

DLS Recovery Plan



Path I – Implementation of the DLS transitional solution

OBJECTIVES

It provides **an overview of the steps to be undertaken** by the involved stakeholders in the airborne and ground domains.

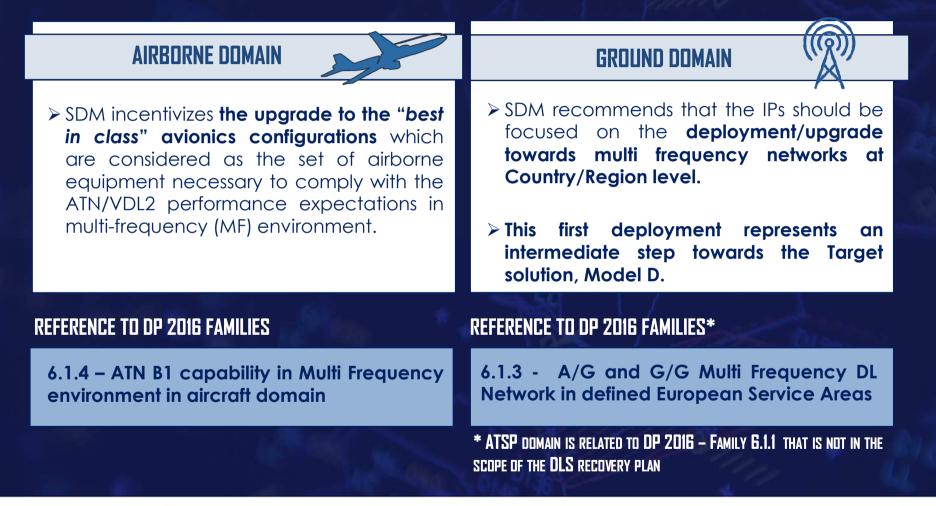
SDM ROLE IN PATH I

- Facilitate a proactive and direct involvement of all the relevant stakeholders to ensure a coordinated submission of required DLS implementation projects;
- Facilitate direct support to EASA and NM in providing the relevant set of information enabling end to end certification processes and the performance monitoring of the technical capabilities.





Path I – DLS implementation projects Airborne and Ground domains







Path II – Preparatory activities towards the target solution and service provision

OBJECTIVES



It aims at providing indications on the activities to be addressed by the involved stakeholders, in support to SDM, towards the implementation of the target solution and service provision enabling to reach full AF6 deployment (Initial Trajectory Information Sharing) according to DP 2016 Addendum 1.

SDM ROLE IN PATH II

- Manage the overall set-up, and coordinate the above mentioned activities as project manager working in close cooperation with the stakeholders involved.
- Close coordination, through the relevant working arrangements, with Network Manager, EASA, SJU and EDA as necessary actors within the project towards the target DLS deployment model.





Path II – Multistakeholder project elaboration

The stakeholders are encouraged to elaborate a multistakeholder project, that will specifically define an European Common DLS Governance and support the SDM in its activities, according to Addendum 1 and DLS Recovery Plan.







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Other required activities



End to end certification

(in accordance with ELSA's Recommendation ref. "Network_Oversight 03") It is recommended the definition and implementation of an effective data link end-to-end system certification process, including both ground and air components

Performance Monitoring and Spectrum Coordination

(in accordance with ELSA's Recommendation ref. "Network_Oversight 02")

- continuous RF and performance monitoring of the entire system comprising airborne equipment, ground equipment and the operation thereof;
- Regular assessment and coordination of the RF needs and spectrum usage aspects with the stakeholders and the NM-RFF in accordance with the ICAO standard.

SDM ROLE

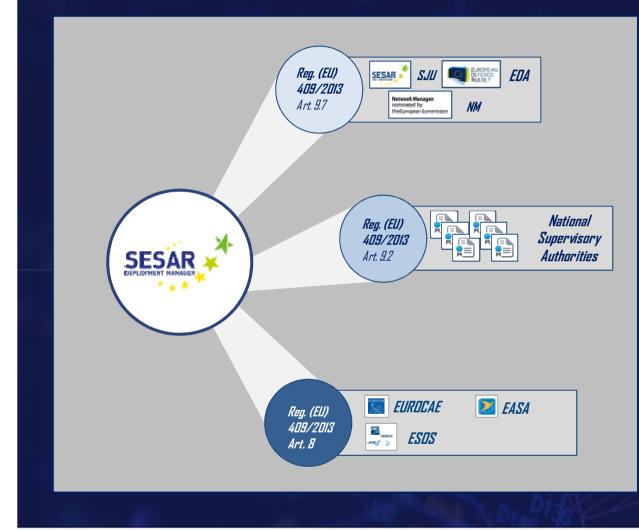
The mentioned activities are not under SDM remit but they are considered essential enablers to a successful DLS deployment and operation.

> SDM will interface with and provide support to the bodies to be established/empowered to lead these activities through dedicated working arrangements and facilitate their execution.





SDM Interfaces with other relevant Bodies



SDM will establish a Data Link Steering Group by the end of 2016 in order to work together with relevant Bodies and coordinate the activities necessary to adequately face the specific opportunities and risks in the Recovery Plan and, beyond, in Data-Link Services Implementation Towards Initial Strategy Trajectory Information Sharing.





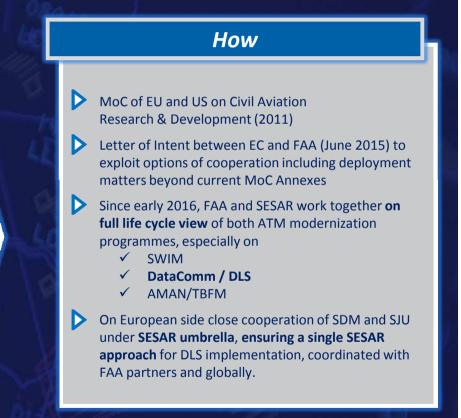
Global interoperability



The risk of lack in global interoperability was already addressed in DP 2015, primarily driven by the airspace users. **DLS/DataComm is one of the key focus items** for global interoperability and harmonization and addressed in the EU - US cooperation work

Why

- To de-risk the implementation of PCP and subsequent common projects
- Mitigation of the SDM DP risk of lack of global harmonization and interoperability, strongly related to the risk of lack in standardization/ regulation
- To achieve the highest level of interoperability between SESAR and NextGen
- To achieve a full life cycle view on all phases on both US and European ATM Modernization Programmes
- To go beyond SESAR NextGen interoperability to the broader field of global harmonisation
- For consistency between SESAR with the ICAO Global ATM Concept (GANP, ASBUs)
- To achieve the objectives of the SES policy supporting SESAR as the technology pillar







✓ 11.30 – 11.45 - 2016 CEF Transport Calls: overview

(Mariagrazia La Piscopia)

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2016 CEF Transport Calls for Proposals – DLS Priority

3. OBJECTIVES AND PRIORITIES:

3.3. Priorities for the objective of optimising the integration and inferconnection of transport modes and enhancing the interoperability of transport services, while ensuring the accessibility of transport infrastructures

I.J.J. Single European Sky – SESAR Priority open to all Member States

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The objective in the area is to support the timely and efficient implementation of the Single European Sky (SES), in particular the deployment of SESAR (Single European Sky ATM Research and Development).

sanagement (ATM) in Europe by modernining and harmonising ATM systems, synchronising the deployment of essential ATM functionalities, enhancing ervel-military interoperability, educing fragmentation and consolidating the provision of air navigation services. It aims to sodemise ATM in Europe and to provide the Unions with a high performing ATM

infrastructure that will enable the safe, efficient and environmentally friendly operation and development of air transport. The proposed Actions under this objective shall include works and studies¹ under one of the following 2 categories:

 Common Projects
 This cargony includes civil and military Implementation projects deploying AT functionalistics² identified in Common Projects⁴ in accordance with the Deployme Programme². The proposed Actions may include precapisies, preparatory activates (i)

example supporting industralisation⁴ of ATM functionalities identified in the Commo Projects) and additional validationa activities that are either not covered by the SESAR Join Undertaking or that are not already receiving financial support from the Union. In order to optimise the impact of Union funding on the implementation of the Deployment Programme, the Commission mays focus the scope of the call for proposal on specific ATM

- ² To qualify for fanding under the Common Projects category, studies are to be directly relevant to anywring civilumitory cooperation and/or specifically leading to accelerated implementation of Common Projects.
- ² Communics Implementing Regulation (EU) No 499/2013 of 3 May 2013 on the definition of comm myingsty, the caldidiment of governance and the identification of metrifives apporting if explorementation of the European Air Tariffe Management Matter Plane (011, 123, 45, 2013, p. 1).
 ³ The functionarian equation of the Communication Research Communication (EC) No. 724/2014 of 1
- The first Contract project is a dimain at Contractions implementing Regardism (L1)) Soc 7102014 at 27 June 2014 and the elidablement of the PAR Contrame Project importing the implementations of the European Air Fuffic Management Mater Plan(CUL 109, 206A2014, p. 19). Section 2 of Implementing Regardism (PL) No. 06/2021), the Explorment Programmer as approved
 - http://www.www.ierin.matmenger.co/our-deployment-manager.delo.org

Focus on DLS priority

Around 30% of the budget allocated to Common Projects (€ 80 mln) dedicated to implement Datalink Capability

- "Projects shall be implemented in accordance with the recovery plan developed by the SESAR Deployment <u>Manager</u> and shall respect the <u>regulatory deadlines</u> <u>prescribed by the Commission Implementing Regulation</u> (EU) n. 310/2015. Costs incurred after the deadlines for the implementation of these projects will not be funded"

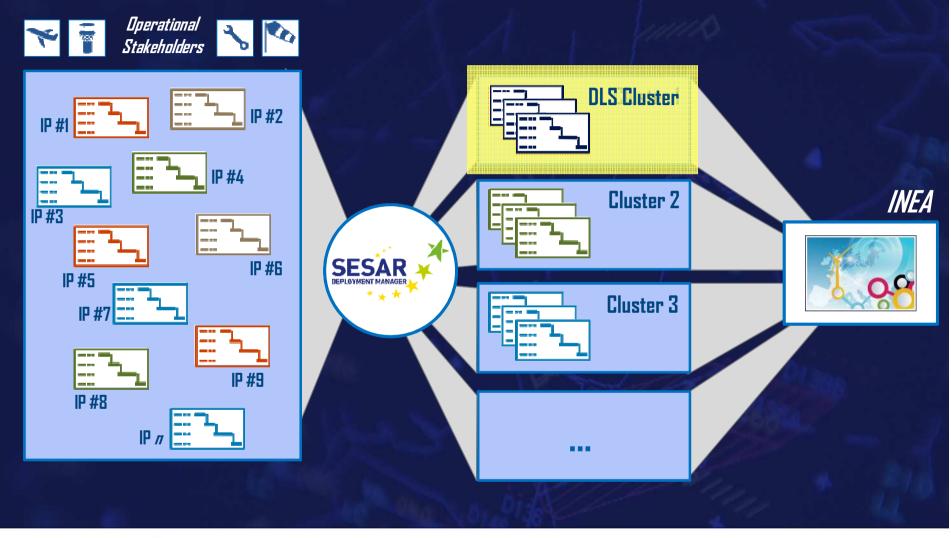
- "Implementation projects presented under the abovementioned recovery plan must follow the planning proposed in the applications"

-[...] <u>Major deviations</u> from the approved planning or <u>poor</u> <u>progress of a project</u> will trigger the relevant provisions on <u>suspension and termination applicable to the specific</u> <u>grant agreement</u>"



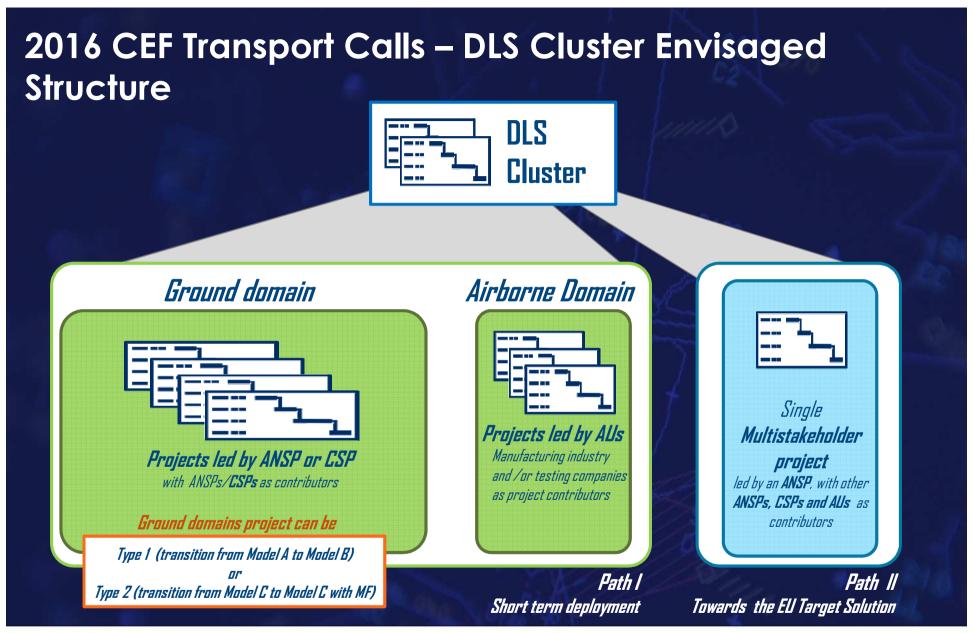


2016 CEF Transport Calls – High level proposal structure



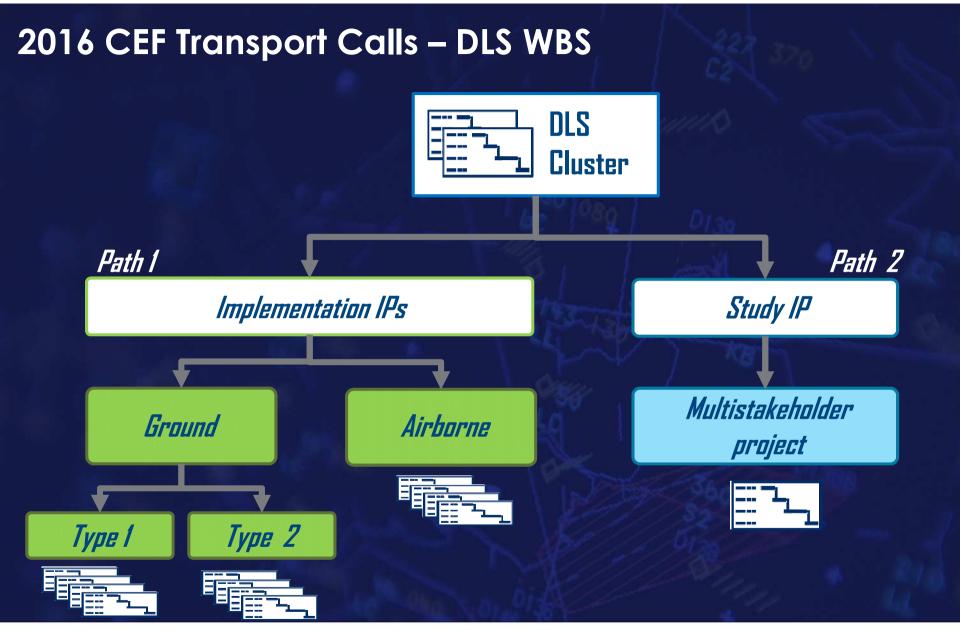












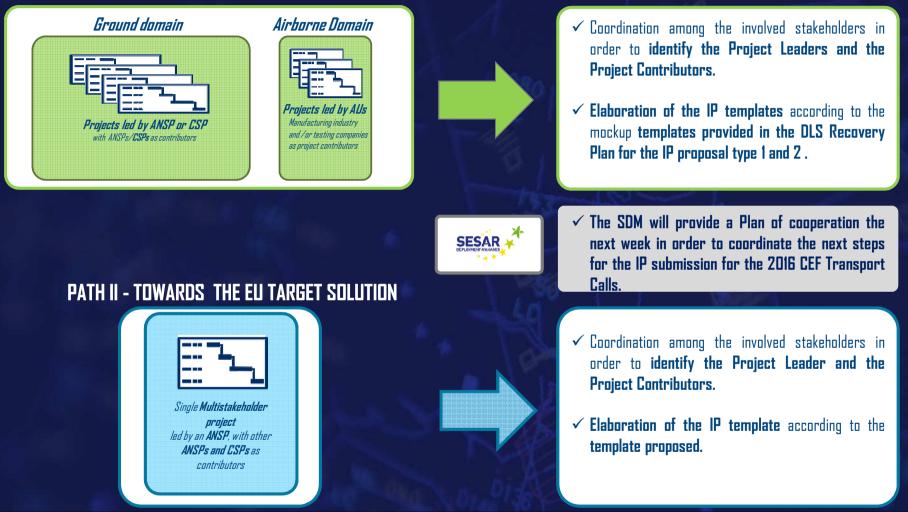




2016 CEF Transport Calls – Next steps

PATH I - SHORT TERM DEPLOYMENT

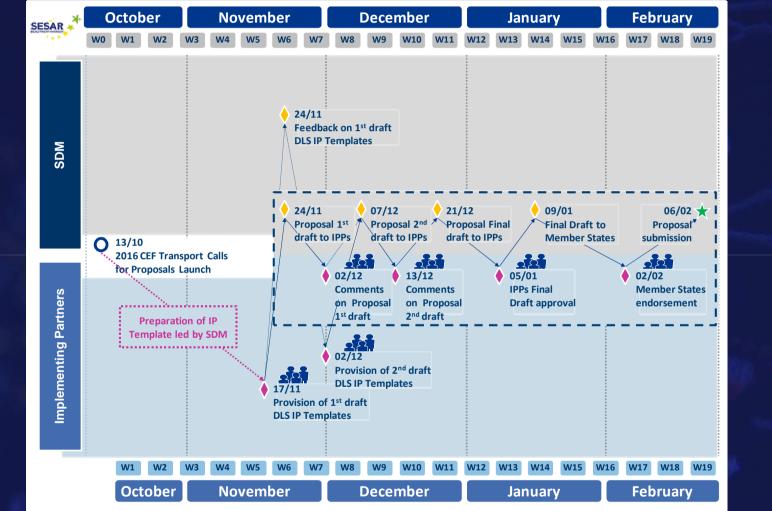
NEXT STEPS







2016 CEF Transport Calls Responses Preparation – DLS timeline



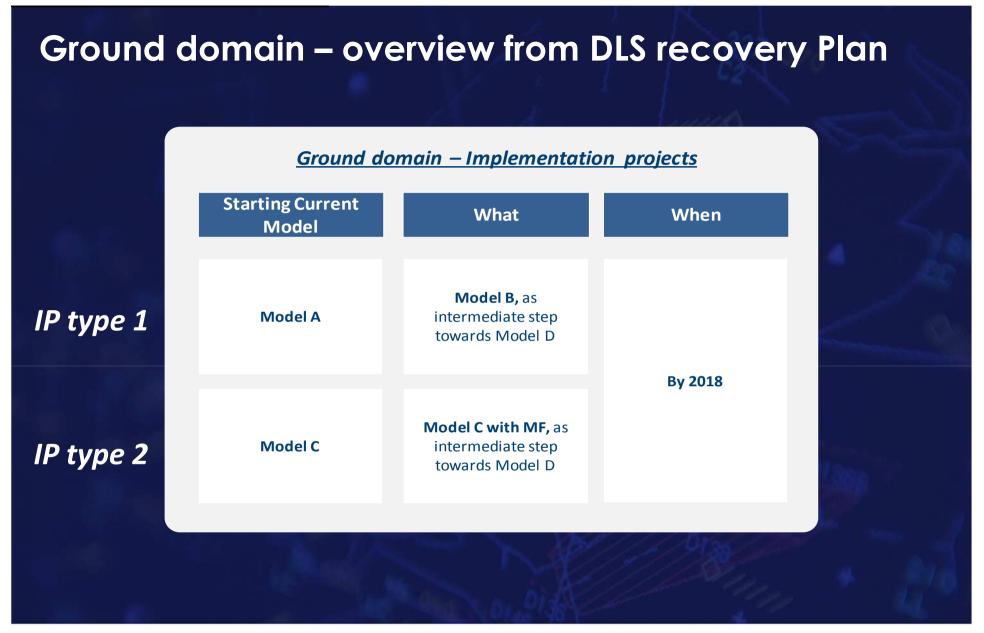




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Implementation projects – IP type 1 Prerequisites

IP type 1 – From Model A to Model B

Prerequisites:

- 1. The Implementation project has to be focused on ATS provision;
- 2. the country/Region, submitting the IP, has already implemented Model A;
- 3. Availability of the fifth frequency* for VDL M26.

The addition of the 5th VDL frequency over the current 4 VDL frequency allocation shall be fostered at ICAO FMG Allotment plan level. The next ICAO FMG meeting will be held in November 2016 and a decision is foreseen) NOTE : the VDL frequency allotment plan will be discussed at next FMG meeting -14-16 Nobvember 2016)





Implementation projects – IP type 1

IP Proposal type 1 – From Model A to Model B

Project Le	eader ANSP/ANSPs	ANSP/ANSPs or CSP/CSPs*		
Project	ANSP/ANSPs	ANSP/ANSPs or CSP/CSPs		
Contribut	Contributors			
Project's	Project's Tasks			
Number	Title	Description		
1	Project	Project management activities (including planning, execution, monitoring, control and closing) to ensure the achievement		
	Management	of the required performance levels.		
		It is also expected that the monitoring results will be provided according to the timelines and mechanisms defined by		
		SDM. Specifically, relevant data on the performance level are expected to be coordinated and provided to the Network		
	Manager to ensure a proper performance monitoring.			
		Furthermore, a contribute to end to end certification process, as necessary, is expected		
2	A/G network design	n According to the SDM Guidelines and bilateral coordination, for each RF network, it is expected the definition of the new		
		MF VGS configuration starting from the existing one:		
		• En-route layer definition: identifying the VGS to be upgraded to the en-route frequency to cover the airspace		
		defined by IR and ANSPs requirements		
		• TRM layer definition: identifying the VGS to be upgraded to the GND frequency to cover the airspace defined by		
		ANSPs (relevant airports are expected to be considered also to discharge AOC from other frequencies)		
		• Coordination with neighbour's countries avoiding overlap of coverage is required.		
3	G/G network	According to the SDM Guidelines, the following activities are expected to be performed:		
	design	reconfiguration or upgrade of the existing ATN networks		
	(if needed)	• reconfiguration or upgrade of the G/G data distribution network		
		• Coordination with neighbors' Countries simplifying the ATN chain (for example, limiting the number of ATN A/G		
		routers) and facilitating the data exchanges		
* CSPs	s could lead such	IPs, with ANSPs as contributors. However, their leadership should be justified by the fact that		

* CSPs could lead such IPs, with ANSPs as contributors. However, their leadership should be justified by the fact that it facilitates defragmentation of implementation. Therefore, an IP led by a CSP could be submitted only if addressing at least 2 countries and if ANSPs of the addressed countries (at least 2) are project contributors.





Implementation projects – IP type 1

IP Proposal type 1 – From Model A to Model B

Project Leader ANSP/ANSP		s or CSP/CSPs			
Project	ANSP/ANSPs or CSP/CSPs				
Contributo	tors				
Project's Ta	asks				
Number	Title	Description			
4	Support systems	According to the SDM Guidelines, the following activities are expected to be performed:			
	design	• Upgrade of performance monitoring system including the support to the Performance monitoring function			
	(if needed)	Upgrade of network management system			
		Upgrade of recording system			
5	Interfaces design	According to the SDM Guidelines, the following activities are expected to be performed:			
	(if needed)	• reconfiguration or upgrade of existing internal interfaces (including front-end processors)			
		reconfiguration or upgrade of existing external interfaces			
6	Infrastructure	Implementation of the all the elements designed in the previous tasks for DLS systems upgrade to MF reaching Model B			
	deployment	(This task includes testing).			
7	Operational	After the infrastructure deployment and the related technical verification of the new systems, the Operational			
	acceptance	acceptance, including final testing, has to be performed by the ANSPs in order to evaluate the new systems introduction			
		in operation checking.			
8	Operational	Considering the current Model A already in operation, an operational transition plan has to be produced in order to			
	transition	guarantee the continuity of service in transition forward Model B.			
9	Analysis of the	In order to facilitate the achievement of the target model in accordance to SDM Addendum 1, this task aims at			
	future evolution	identifying the evolution of the implemented model towards model D in full coordination with the SDM.			
	to Model D				





Implementation projects – IP type 2 Prerequisites

IP type 2 – From Model C to Model C with MF

Prerequisites:

- **1.** The Implementation project has to be focused on ATS provision;
- 2. The country/Region, submitting the IP, have already implemented Model C;
- **3.** Availability of the fifth frequency for VDL M2 (the addition of the 5th VDL frequency over the current 4 VDL frequency allocation shall be fostered at ICAO FMG Allotment plan level. The next ICAO FMG meeting will be held in November 2016 and a decision is foreseen).





Implementation projects – IP type 2

IP Proposal type 2 – From Model C to Model C with MF

Project Le	eader ANSP/ANSPs or CSP/CSPs*				
Project	ANSP/ANSPs	or CSP/CSPs			
Contribut	Contributors				
Project's 1	Fasks				
Number [·]	Title	Description			
1	Project	Project management activities (including planning, execution, monitoring, control and closing) to ensure the achievement			
	Management	of the required performance levels.			
		It is also expected that the monitoring results will be coordinated and provided according to the timelines and			
		mechanisms defined by SDM. Specifically, relevant data on the performance level are expected to be coordinated			
		provided to the Network Manager to ensure a proper performance monitoring			
		Furthermore, a contribute to end to end certification process, as necessary, is expected			
2	A/G network design	According to the SDM Guidelines and bilateral coordination, it is expected the definition of the new MF VGS configuration			
		starting from the existing one:			
		• En-route layer definition: identifying the VGS to be upgraded with the en-route frequency to cover the airspace defined by IR and ANSPs requirements			
		• TRM layer definition: identifying the VGS to be upgraded to the GND frequency to cover the airspace defined by ANSPs (relevant airports are expected to be considered also to discharge AOC from other frequencies)			
		• Coordination with neighbour's Countries to minimise the coverage overlap and to consider the common interoperability aspects (choose of frequencies).			
		 Coordination with CSPs to optimize A/G network 			

* CSPs could lead such IPs, with ANSPs as contributors. However, their leadership should be justified by the fact that it facilitates defragmentation of implementation. Therefore, an IP led by a CSP could be submitted only if addressing at least 2 countries and if ANSPs of the addressed countries (at least 2) are project contributors.





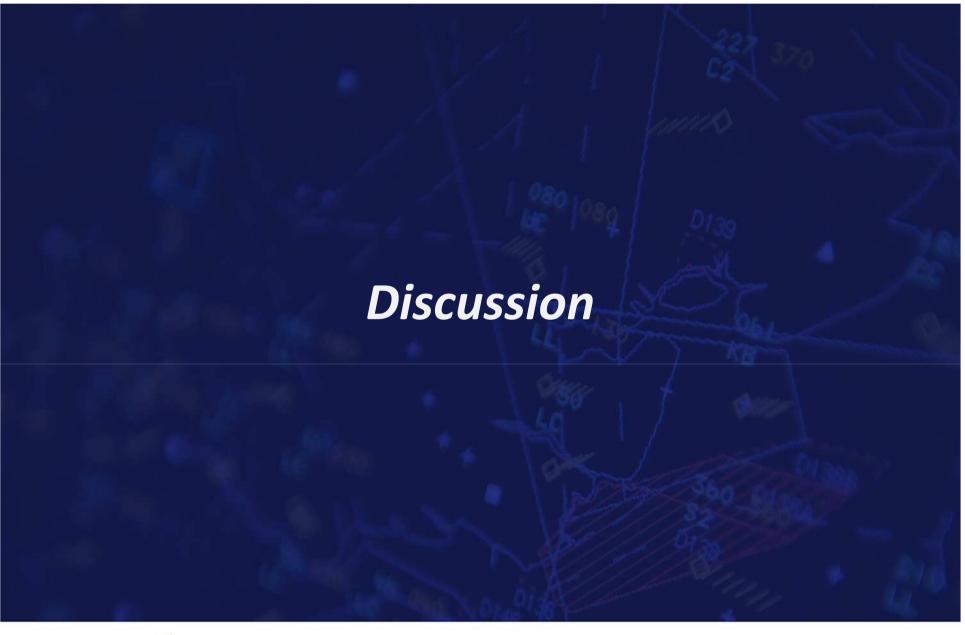
Implementation projects – IP type 2

	IP Proposal type 2 – From Model C to Model C with MF			
Project Lea	ader ANSP/ANSPs	s or CSP/CSPs		
Project	ANSP/ANSPs	or CSP/CSPs		
Contributo	ors			
Project's Tasks				
Number	Title	Description		
3	G/G network	According to the SDM Guidelines, the following activities are expected to be performed:		
	design	 reconfiguration or upgrade of the existing ATN networks 		
	(if needed)	 reconfiguration or upgrade of the G/G data distribution network 		
		• Coordination with neighbors' countries simplifying the ATN chain (for example, limiting the number of ATN A		
		routers) and facilitating the data exchanges (interconnection aspects)		
4	Support systems	According to the SDM Guidelines, the following activities are expected to be performed:		
	design	• Upgrade of performance monitoring system including the support to the Performance monitoring function		
	(if needed)	Upgrade of network management system		
		Upgrade of recording system		
5	Interfaces design	According to the SDM Guidelines, the following activities are expected to be performed:		
	(if needed)	• reconfiguration or upgrade of existing internal interfaces(including front-end processors)		
		• reconfiguration or upgrade of existing external interfaces in cooperation with CSPs		
6	Infrastructure	Upgrade implementation of the DLS systems, according to SDM Guidelines. (This task includes testing).		
	deployment			
7	Operational	After the infrastructure deployment and the enclosed technical verification of the new systems, the Operation		
	acceptance	acceptance, including final testing, has to be performed by the ANSPs in order to evaluate the introduction in operati		
	1	of the new systems.		
8	Operational	Considering the current Model C already in operation, an operational transition plan has to be produced in order		
	transition	guarantee the continuity of service in transition forward Model C with MF.		
9	Analysis of the	In order to facilitate the achievement of the target model in accordance to SDM Addendum 1, this task aims		
	future evolution	identifying the evolution of the implemented model towards model D in full coordination with the SDM.		
	to Model D			
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LET'S DELIVER TOGETHER









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Airborne domain – overview from DLS recovery Plan

<u>Airborne domain – Implementation projects</u>

		1.00
Upgrade to ATN B1 multi frequency avionic successfully assessed "best in class" by ELSA study	Ву 2020	2
Upgrade to ATN B1 multi frequency avionic not tested against "best in class" criteria in ELSA, subject to demonstration of equivalent minimum level of performance as part of the proposal or commitment to demonstrate equivalent minimum level of performance prior to implementation	By 2020	399



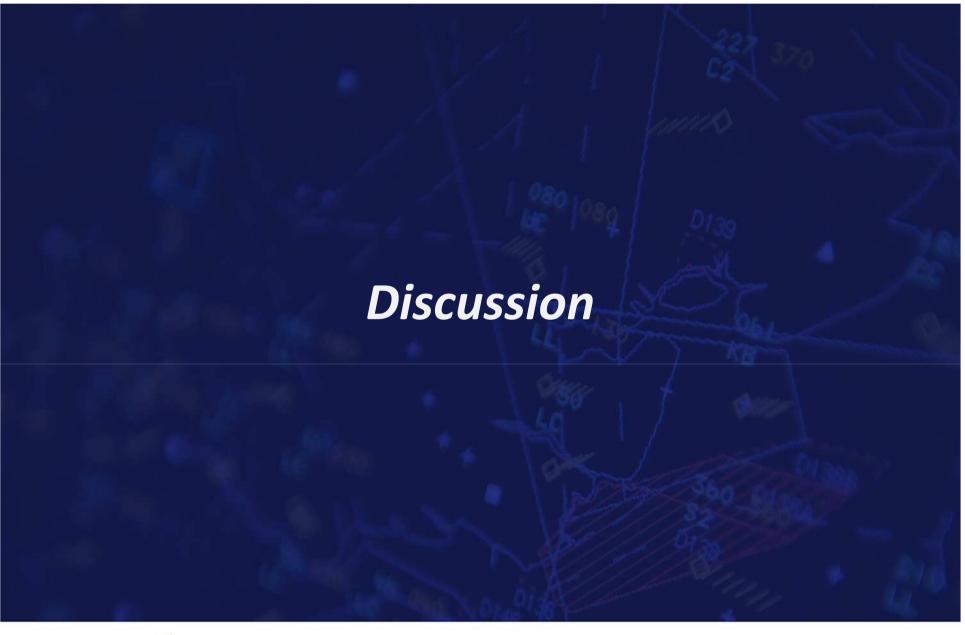
Implementation projects - Airborne domain

Upgrade to ATN B1 multi frequency avionics to "best in class"					
Project Leader	Airspace Users				
Project Contributors	Manufactures and/	or Testing Company (<i>if needed</i>)			
Project's Tasks					
Number	Title	Description			
Task 0*	Testing of ATN B1 MF avionics not yet tested	Testing of ATN B1 MF avionics against "best in class" criteria in ELSA, subject to demonstration of equivalent minimum level of performance as part of the proposal or commitment to demonstrate equivalent minimum level of performance prior to implementation.			
Task 1	Project Management	Project Management activities in order to ensure the necessary equipment of the impacted fleet and contribute to end to end certification as necessary			
Task 2	Equipment procured	Procurement of all necessary hardware and software components required for the upgrade			
Task 3	Aircraft equipped	Installation and integration in onboard systems of all aircraft in the respective fleet			
Task 4	Procedures and training available	Elaboration and approval process of operational and pilot procedures and training packages (also the revision of current procedures to avoid unnecessary avionics reset has to be considered)			
Task 5	Training completed	Training activities attended by crews focus on the use of the equipment			

* Tasks 1 to 6 are subject to Task 0 outcome. In order to further optimise testing effort, Task 0 of several IPs may be regrouped into a specific IP dedicated to testing for which manufacturers and/or testing company could be contributors.











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- ✓ 15.00 16.00 Path I: DLS Projects in the Airborne Domain
- ✓ 16.00 16.15 Path II: Multistakeholder project
- ✓ 16.15 16.30 Closing Remarks (Nicolas Warinsko)





Path II: Multistakeholder project – main tasks

The following template is not detailed in the DLS Recovery Plan, a part of the list of tasks:

IP Proposal - Multistakeholder Project Project Leader ANSP Project ANSP/ANSPs plus AUs plus CSP/CSPs Contributors **Project's Tasks** Number Title Description Support to SDM in the definition of technical architecture at Service Area level in terms of components, interfaces and exchanged 1 Support to SDM in data on the basis of the SDM DL Strategy and the ELSA study results. In addition, this task includes the support to the definition of the Service Design and overall technical architecture at European Level, including the functional design of the interfaces among the identified Service Areas. Technical Moreover, as part of the architecture definition, the following points have to be addressed: architecture • Identification of improvements on legacies DL infrastructures; • Use of PENS to connect G/G (BIS) routers; • IoP improvements of the ATN DL Networks operated by different entities. Support to SDM in the elaboration of a dedicated Business Case, through the analysis of different scenarios in order to ensure the 2 Support to SDM in achievement of the European target solution elaboration of a **Business Case** Support to SDM in the detailed analysis of all the services that are needed to be provided by the European Target solution in order to Analysis of the 3 ensure a syncronized and full deployment throughout Europe services to be provided by the new Model Definition of an European Common DLS Governance, in terms of roles and responsibilites, processes needed for a common approach Definition of an 4 for DLS deployment. The establishment of DLS Governance is an essential facilitator for the coordinated deployment of DLS. European Common **DLS** Governance





- ✓ 11.30 11.45 2016 CEF Transport Calls: overview (Mariagrazia La Piscopia)
- ✓ 11.45 12.30 Discussion
- ✓ 12.30 13.30 Lunch Time
- 13.30 15.00 Path I: DLS Projects in the Ground domain (Davide Corinaldesi)
- ✓ 15.00 16.00 Path I: DLS Projects in the Airborne Domain
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- ✓ 16.15 16.30 Closing Remarks (Nicolas Warinsko)





Closing remarks



