



Deliverable D 4.1

Summary on EDDP programme, risk and interface management II

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Report contributors		
Name	Beneficiary Short Name	Details of contribution
Jens Engelmann	railable	Author
Danijela DORIC	Railenium	reviewer

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1. Executive Summary

This summary describes the activities in the DACcord WP4 on the performed **European DAC Delivery Programme (EDDP) general and specific programme, risk, deviation and interfaces management** from project month M13 until M24.

The tasks to be carried out under this programme / DACcord project have been realised successfully by the EDDP programme managers in support to the EU-Rail JU (leading to the “EDDP work programmes” with their deliverables) and in cooperation with all parties involved in the different EDDP work areas and their interfaces, including the European Commission and the European Union Agency for Railways.

The main achievements in the overall EDDP management in the Reporting Period 2 were:

- › The revision of the “EDDP General Master Plan” to V02 for the entire programme
- › Refined (multi-annual) plannings for the different EDDP work areas
- › Installation of a regular overarching programme risk management across all DAC related areas
- › Establishing the base for the “pioneer trains” project together with the parties involved
- › The implementation of the EDDP stakeholder management plan (DACcord WP10)

The objective of WP4 has been fully achieved and all tasks have been successfully performed.

The **next steps** of the DACcord/EDDP programme management in the upcoming reporting period are:

- Further management of the ongoing tasks in the different EDDP work areas, including related risk management in case of deviations, and ongoing support to EU-Rail JU.
- Further execution of the EDDP General Master Plan and the EDDP work areas
- Seamless integration of new EU-Rail JU projects supporting the migration roadmap work areas
- Overall risk management across all DAC areas, together with EU-Rail JU FP5 TRANS4M-R project, all DAC-related EU-Rail JU projects and System Pillar Task 4 in order to ensure the availability of the DAC Basic Package as planned for the Pioneer DAC trains and for deployment
- Potentially refining the CBA with latest updated in EDDP work area D

This work will be continued in the DACcord WP5 in the project months M25 to M36 and be summarised in the DACcord deliverable D5.1.

2. Abbreviations and acronyms

Abbreviation / Acronym	Description
CBA	Cost-Benefit Analysis
CER	Community of European Railway and Infrastructure Companies
CSEE	Central and South-Eastern Europe (countries)
CTO	Chief Technology Officer (of a company)
DAC	Digital Automatic Coupler
EDDP	European Digital Automatic Coupler (DAC) Delivery Programme
EIM	European Rail Infrastructure Managers
ERA	European Union Agency for Railways/ European Railway Agency
EU-Rail (JU)	Europe's Rail (Joint Undertaking)
FDFTO	Full Digital Freight Train Operations
FP	(EU-Rail) Flagship Project
IM	Infrastructure Manager
NCP	National Contact Point (in ministry)
PM	Programme Management
PMO	Programme Management Office
RU	Railway Undertaking
SH	Stakeholder
SM	Stakeholder Management
TSI	Technical Specification for Interoperability
UIC	Union Internationale des Chemins de Fer
WA	(EDDP) Work Area
WP	Work package

3. Background

The project DACcord provides management competencies to support the EU-Rail JU for the continuation of the professional management of the activities of the European DAC Delivery Programme (EDDP), enabled by the EU-Rail JU and established in the EU-Rail JU work programme, in which European Rail Freight Sector and manufacturers are united to strive for the Europe-wide introduction of a Digital Automatic Coupler.

The present document constitutes the **Deliverable “D 4.1 Summary on EDDP programme, risk and interface management II”** of the DACcord project’s **WP4 “EDDP Programme, risk and interface management I”** in the framework of the European DAC Delivery Programme within Flagship Area 5 as described in the EU-RAIL MAWP and interacts with the Flagship Project 5 TRANS4M-R (see Figure 1).

DACcord Beneficiary **railiable** was in charge of this work package, supported by the DACcord project partners and working in close cooperation with all EDDP members. railiable was supported by a subcontracted strong, multilingual Programme Management Office(r) with experience in rail freight topics, especially in charge of maintenance of the Programme structure, monitoring and controlling of Programme Execution Performance/KPIs and alignment to objectives.

DACcord beneficiary **Railenium** has performed quality and plausibility checks on the report produced.

The areas and activities of the overall DAC programme have been set to the following nomenclature:

Work area	Activity	Title/content
A	A1	EU-Rail JU Flagship Project 5 TRANS4M-R, “Full Digital Freight Train Operations”
	A2, 3	FP5 FDFTO “Sounding Boards” for FP5 Technology and Operational Rules
B (EDDP & Stakeholder management)	B1	EDDP programme / risk management (scope of this deliverable)
	B2	EDDP Stakeholder management
C (Migration)	C1	Fleet analysis and retrofit engineering
	C2	Retrofit Capacity (workshops, workforce, components)
	C3	Migration strategies & retrofitting plan (incl. traffic analysis etc.)
	C4	Infrastructural and IT adaptations
	C5	Placing into service plan/measures (for operations/staff)
D (Economics)	D1	Funding & financing plan (for DAC pre- and full deployment)
	D2	Cost-Benefit Analysis (CBA) incl. updates
	D3	Investment plan & procurement framework plan
	D4	Other regulatory & legal framework plans (e. g. GCU)
E (EC and ERA-related)	E1	Efficient & suitable authorisation process/requirements; preparing draft TSIs
	E2	TSI revisions
F (EU-Rail JU System Pillar)	F	Standardisation of Technical and Operational Rules, preparing inputs to TSI drafting, driving EU standardisation
G	-	the (planned) pre-deployment (Pioneer) Trains project

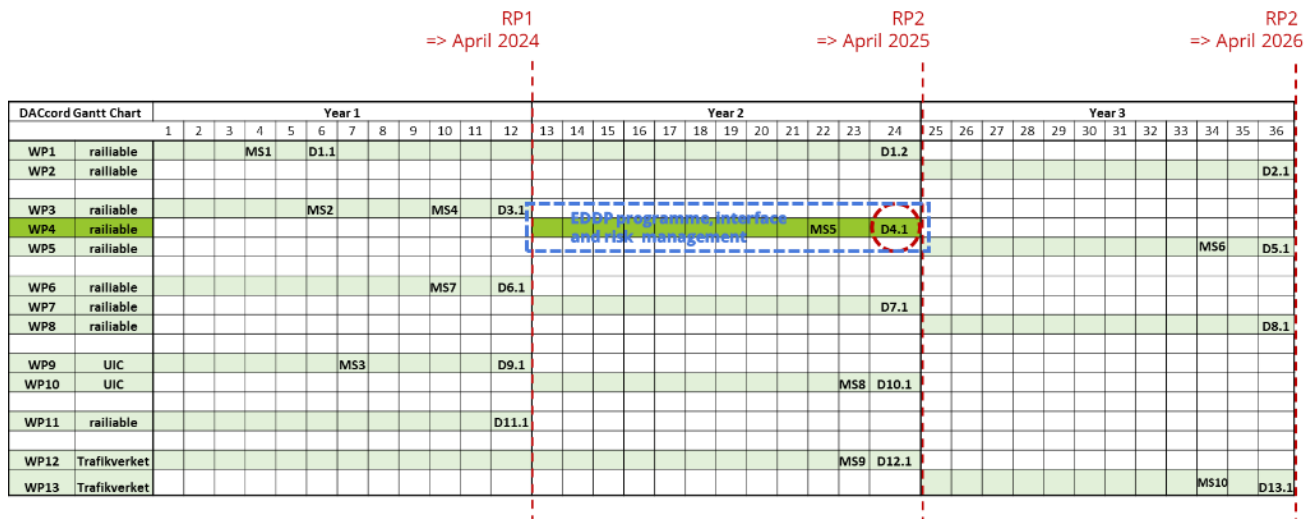


Figure 2. EDDP programme, interface and risk management (WP4) within the DACcord project plan

4. Objective/Aim

The main objective of DACcord WP4 is/was to **adequately manage and coordinate the EDDP, the interfaces to FP5 TRANS4-R and EU-Rail System Pillar and programme risks in the months 13-24 of the project** (cf. Grant Agreement).

For doing this, the project worked closely with EDDP members/partners in the EDDP work areas, the EU-Rail Flagship Project 5 TRANS4RM-R, the EU-Rail JU System Pillar (task 4) and EDDP stakeholders.

The **steps** of the DACcord/EDDP programme management in continuation of the WP3 work as quoted in D3.1 and in line with the WP4 tasks listed further down, are/were:

- Further management of the ongoing tasks in the different EDDP work areas, including related risk management in case of deviations, and ongoing support to the EU-Rail JU
- Further execution/update of the EDDP General Master Plan and the EDDP work areas
- Seamless integration of new EU-Rail JU projects supporting the migration roadmap work areas
- Interface management to EU-Rail JU FP5 TRANS4M-R project and System Pillar Task 4 in order to make the DAC Basic Package available as foreseen for deployment
- Setting up the “Pioneer Trains” project (and governance) together with all parties involved
- Implementation of the EDDP stakeholder management action plan

Table 1. Work package 4 tasks (cf. Grant Agreement):

To achieve the EDDP and its interfaces management objectives set out in the overall WP objective, the WP will carry out:	Status	chapter
Management, revision, challenging and (iterative) interface management of the activities in the overall EDDP working structure (as far as they are resourced and therefore active and manageable)	Achieved	5.1
Management of the EDDP (multi-) annual work programme (M13-24)	Achieved	5.2
Support the EU-Rail JU in relation to the EDDP mechanisms & admin. (incl. DAC section on EU)-Rail JU web page), report on a regular basis to the Programme Board (PB) and Supervisory Board (SB) Together with the EU-Rail JU ED, preparation & managing of EDDP decision making/escalation mechanisms	Achieved	5.3
Management of the interfaces to related EDDP work streams (e. g. EDDP PB, FP5 advisory/ "sounding" boards) including interfaces to other DAC-related EU-Rail JU activities (e. g. System Pillar etc.) and EC and ERA by setting up regular exchange meetings; sharing of the outputs with EDDP and linked projects from EU-Rail JU Flagship Area 5; interaction with the System Pillar as needed (by meetings) and with the EDDP groups/actions Management of the programme risk and deviation management plan; proposing appropriate mitigating/countermeasures also for the implementing actions if needed; regular report in PB and SB	Achieved	5.4
Support the EU-Rail JU in the Stakeholder Management; organise/steer the EDDP stakeholder management team; organisation, together with the FP5, of EDDP/FP5 sounding boards (technology, operational procedures and potentially more) to pre-align the sector (sounding board schedule to be aligned with FP5)	Achieved See specific DEL D 10.1	5.5
Refining, if necessary, the planned DAC technology packages/ components for deployment ("starter package") in function of the progress in the FP5 FDFTO technical development and ERA authorisation process	N/A (no change)	--

5. WP4 achievements (Months 13-24)

5.1. Management of the activities in the overall EDDP working structure

The DACcord task consisted in the *“Management, revision, challenging and (iterative) interface management of the activities in the overall EDDP working structure”* (cf. Grant Agreement).

The management of the programme led to the achievements and topics mainly presented in the EDDP Programme and Supervisory Boards (**see agendas in Annex**) and/or coordination groups.

Besides the regular alignment with the EU-Rail JU Executive Director and Project Officers, both EDDP programme managers (Mark Topal-Gökceli, CTO ÖBB) and Jens Engelmann (railiable GmbH) were in permanent contact to coordinate the necessary actions to design and manage the overall running of the programme. The coordination included, in nearly all meetings, the FP5 FDFTO Project Manager, Constanze Bannholzer (ÖBB), and the subcontracted EDDP PMO (Nuon GmbH).

The **PM alignment meetings** in Reporting Period 2 took place (mainly via videoconference) on:

April 2024	09, 11, 22, 23, 30
May 2024	02, 03, 06, 13, 14, 15
June 2024	14, 17, 18, 21, 28
July 2024	01, 04, 05, 08, 26, 29, 31
August 2024	19, 26
September 2024	10, 17, 20, 27
October 2024	02, 03, 10, 11, 24
November 2024	07, 14, 18, 27, 29
December 2024	05
January 2025	12, 14, 20
February 2025	03, 13, 20, 25, 28
March 2025	04, 13, 20, 21, 26

A precondition for the success of the programme was/is the close management of the different EDDP work packages (later: EDDP work areas), see Figure 1. Regular catch-up meetings on the progress of the work **especially in Work Area C** (the need for alignment in **Work Area D** was rather limited) and for the preparation of the various topics of the EDDP work programme in view of decisions in board meetings were scheduled throughout the year.



Work Area B activity B1 contains the “programme management” tasks, **activity B2** contains the “stakeholder management” tasks (see separate deliverable D10.1)

Work Area C with its activities C1-C5 contains the “migration” topics (fleet, workshops, strategies, infrastructural preparation, placing into service issues), see separate deliverable D7.1.

Work area D with its activities D1-D4 contains the “economics” topics (funding/financing plan, CBA, investment plan etc.) (Figure 1), see separate deliverable D7.1.

They were complemented with various additional in-depth meetings on specific work area topics. Generally, the work area lead & co-lead participated, often complemented by other work area members. Work area status updates were integrated into the subsequent board meetings.

The **Work Area C & D alignment meetings** in reporting period 2 took place (mainly via videoconference) on:

April 2024	08, 12, 17, 22, 24
May 2024	03, 21, 28
June 2024	16, 17, 25
July 2024	01, 05
August 2024	12, 13, 19, 20, 27
September 2024	12, 13
October 2024	07, 09, 15
November 2024	04, 05
December 2024	06
January 2025	06, 10, 15, 23, 24
February 2025	13, 19, 25
March 2025	05, 11, 25

The **WA C** meetings covered nearly completely the status of the C-part of the DAC migration roadmap.

In addition to these specific parts of the programme, the other different EDDP activities were managed by the PM with all different partners and stakeholders on a nearly daily basis.

The overall achieved management result was to ensure the delivery of the agreed tasks within the EDDP according to the EDDP work programme 2024 and 2025 (next chapter), either via progress reports or preparation of respective decisions to be taken in the EDDP Programme and Supervisory Boards. Where the resource situation in the EDDP work areas allowed this delivery, the results were achieved; where the resource situation was not sufficient, the programme management e. g. escalated to the Boards/ to the EU-Rail JU in order to unlock further support (resulting e. g. in the EU-Rail JU call which later led to the DACFIT project within EDDP).

The **tables 2 and 3 give an overview on the workdays dedicated to the different management/interface work areas in EDDP** and/or DACcord (some of them being detailed in separate chapters of this summary) for the project months M13-M24.

Coordination with / alignment on:

Table 2. Distribution of PM workdays to the different EDDP management/interface areas (1)

	EU-Rail JU/ EC/ERA	EDDP PM/PMO + FDFTO	EDDP WPs/WAs	EDDP PB incl. prep	EDDP SB incl. prep	other stake- holders	General Master Plan + risk mgmt	EDDP/ FP5/SP interface
April 2024	26, 29	09, 11, 22, 23, 30	08, 12, 17, 22, 24	08, 09, 12, 15, 25		09, 19		19, 26
May 2024		02, 03, 06, 13, 14, 15	03, 21, 28	03, 10, 11, 12		02, 21, 24		02, 08, 09
June 2024	12, 14, 21, 28	14, 17, 18, 21, 28	16, 17, 25	13, 14, 17, 18, 24, 26	26, 27, 28	06, 12, 24, 27		14, 28
July 2024	05, 08, 10	01, 04, 05, 08, 26, 29, 31	01, 05		01, 03	01		05, 08, 26, 29
August 2024	26, 28, 30	19, 26	12, 13, 19, 20, 27	12, 19, 26, 28, 30			13, 19	23
September 2024	06, 13	10, 17, 20, 27	12, 13	10, 12, 13, 16, 17		12, 13	17, 20	06, 13
October 2024	04, 09, 11, 18, 25	02, 03, 10, 11, 24	07, 09, 15		02, 03, 04, 07, 14			04, 18
November 2024	06, 08	07, 14, 18, 27, 29	04, 05	04, 12, 13, 14, 15, 18, 19, 20, 21, 22, 25	27, 28, 29		07, 11, 12, 13	08
December 2024	06, 13	05	06		02, 03, 04			13
January 2025	06, 10, 24, 27	12, 14, 20	06, 10, 15, 23, 24	06, 10, 15, 24, 27, 30, 31			10, 20, 27, 28, 31	10
February 2025	04, 07, 14, 28	03, 13, 20, 25, 28	13, 19, 25	03, 04, 05, 10, 11, 12, 13, 14, 19, 20, 21, 24- 28			20, 21	04, 07, 10, 14
March 2025	07, 05, 13, 14, 17, 21	04, 13, 20, 21, 26	05, 11, 25	03, 04, 07, 06, 10, 11	12, 13, 14, 18, 21	07, 13, 17, 24	28	28

Table 3. Distribution of PM workdays to the different EDDP management/interface areas (2)

	Stakeholder management	EDDP planning & Migration roadmap	Pre-deployment trains (Pioneer DAC Trains) planning	DACcord project management
April 2024	01, 02, 03, 04, 11, 16, 17, 18, 19, 20, 21, 22, 25, 26, 28, 30	08, 12, 16, 17, 26	02, 22, 24, 29, 30	15, 22, 25, 30
May 2024	01, 14, 15, 16, 22, 28	01, 06, 08, 09, 10, 14, 17, 21	01, 02, 09, 10, 13, 15, 17, 21, 24, 27, 28, 29, 30	01, 02, 03, 06, 08, 09, 10, 11, 12, 20, 23, 24, 27, 28, 29, 30
June 2024	12, 18, 19, 20, 24, 25	03, 11, 17, 24	03, 05, 06, 07, 10, 11, 12, 13, 14, 17, 18, 21, 24, 26, 28	03, 04, 05, 06, 07, 10, 11, 12, 14, 18, 20
July 2024	05	01	03, 04, 08, 26, 29, 31	
August 2024	12, 20, 26, 27	12, 13	--	27 – 30
September 2024	02, 06, 10, 13, 16, 17, 23, 24, 25, 26, 27, 30	04, 05, 12, 13	--	16, 19, 20, 21, 22, 23, 24
October 2024	07, 09, 14, 15, 18, 21	01, 15, 18	--	01, 04, 05, 07, 08, 10, 11
November 2024	12	08, 11, 12, 13, 15, 14	--	01, 04, 05, 07, 08
December 2024	10	06	--	--
January 2025	07, 14, 28	06, 15, 24, 30, 31	--	31
February 2025	05, 10, 17, 18	03, 04, 05, 10, 13, 19, 24, 25, 26, 28	--	07, 20
March 2025	06, 07, 13, 24, 28	10, 11, 13, 25, 26	--	10, 14, 24, 25, 26, 27, 28, 31

5.2. EDDP (multi-) annual work programme management

The DACcord task consisted in “Setting up & management of an EDDP (multi-) annual work programme” (cf. Grant Agreement).

The EDDP work programme 2024 needed to be further developed into EDDP work programme 2025, based on the principal multi-annual planning from RP1.

Figure 3 shows the **EDDP work programme 2024** as adopted in the EDDP Programme Board on 25th April 2024.

The work programmes indicate the deliverables in the different categories which were planned for the respective PB/SB meeting dates. The deliverables/board topics were provided entirely.

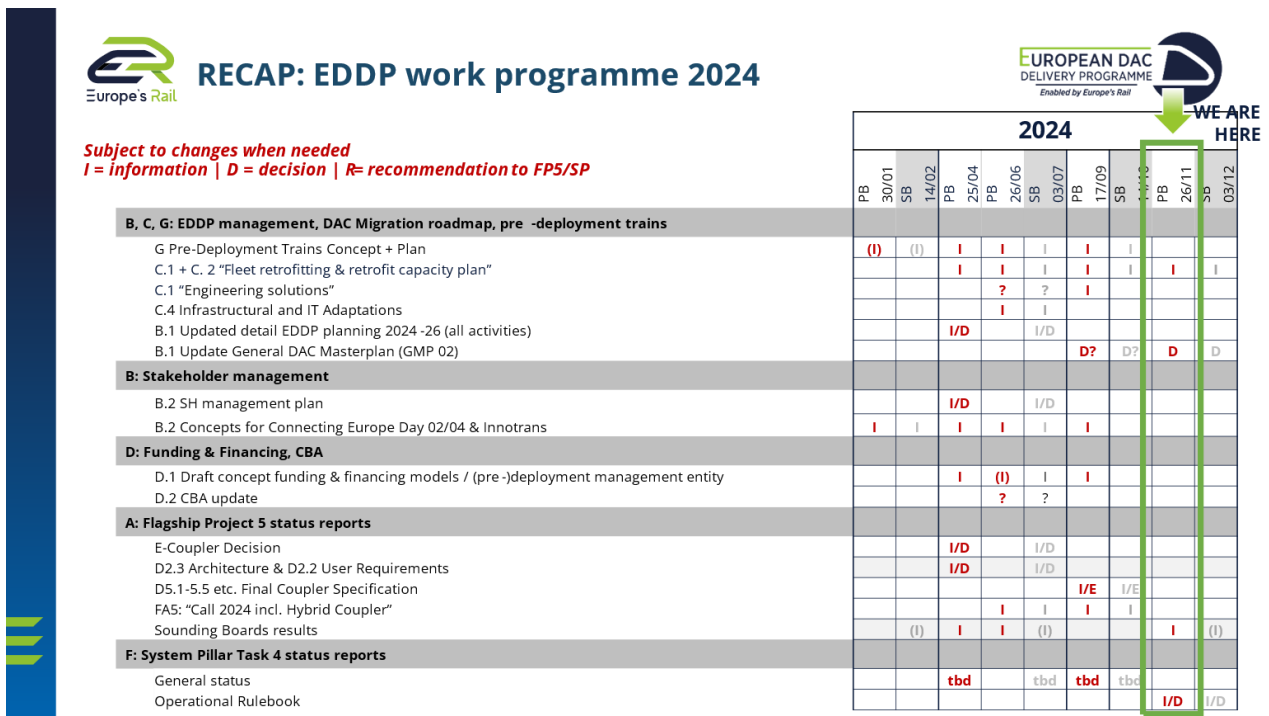


Figure 3. EDDP work programme 2024

Figure 4 shows the EDDP work programme 2025 as presented as draft in the 26/11/2024 Programme Board and then initialised as of the 11/03/2025 Programme Board.

The work programme 2024 included a planned revision of the “DAC General Master Plan 01” to reflect upcoming evolutions, The revised version, based mainly on the developments in FP5 TRANS4M-R (extension of the FP5 works until end-2026), was adopted in the EDDP Programme Board on 26/11/2024 (Figure 5). This GMP 02 is the basis for the EDDP works for 2025 onwards.

EDDP work programme 2025

Subject to changes when needed
 I = information | D = decision | R = recommendation to FP5/SP

B, C, G: EDDP management, DAC Migration roadmap, Pioneer DAC Trains

- G Pioneer DAC Trains (Plan and Initialization)
- C Migration roadmap | reconfirmation of working assumptions & requirements capturing
- C.1 + C. 2 DACFIT | State of play
- C.1 Result of call "Engineering solutions"
- C.3 Separability of Traffics | state of play
- C.4 Infrastructural and IT Adaptations
- B.1 Updated detail EDDP planning 2025 -26 (all activities)
- B.1 Update General DAC Masterplan (GMP 03?)

B: Stakeholder management

- B.2 SH management plan execution | state of play
- B.2 Stakeholder management events

D: Funding & Financing, CBA

- D.1 Update on funding & financing
- D.2 CBA update | LCC updates, case studies results

A: Flagship Project 5 status reports

- State of play critical items | RAMSS target values | manual mech. uncoupling from wagon side
- Sounding Boards results
- Demo train preparation

F: System Pillar Task 4 status reports

- General status
- Operational Rulebook Updates

WE ARE HERE

2025											
	PB 11/03	20/03	PB 10/06	SB 30/06	PB 16/09	SB 25/09	PB 09/12	SB 18/12			
G Pioneer DAC Trains (Plan and Initialization)	(I)	(I)	I	I	I	I	D?	D?			
C Migration roadmap reconfirmation of working assumptions & requirements capturing	I	I	I	I	I	I	I	I			
C.1 + C. 2 DACFIT State of play	I	I	I	I	I	I	I	I			
C.1 Result of call "Engineering solutions"			I?	I?	I	I	I	I			
C.3 Separability of Traffics state of play			I	I	I	I	I	I			
C.4 Infrastructural and IT Adaptations			I	I	I	I	D?	D?			
B.1 Updated detail EDDP planning 2025 -26 (all activities)			I/D	I/D							
B.1 Update General DAC Masterplan (GMP 03?)			--?	--?							
B: Stakeholder management											
B.2 SH management plan execution state of play	I	I	I	I	I	I	I	I			
B.2 Stakeholder management events			I	I	I	I	I	I			
D: Funding & Financing, CBA											
D.1 Update on funding & financing			?	?	?	?					
D.2 CBA update LCC updates, case studies results	I	I			?	?					
A: Flagship Project 5 status reports											
State of play critical items RAMSS target values manual mech. uncoupling from wagon side	D	D	RAMSS	RAMSS							
Sounding Boards results	I	(I)	I	(I)	I	(I)	I	(I)			
Demo train preparation	I	(I)	I	(I)	I	(I)	I	(I)			
F: System Pillar Task 4 status reports											
General status	tbd	tbd	tbd	tbd	tbd	tbd	tbd	tbd			
Operational Rulebook Updates	tbd	tbd	tbd	tbd	tbd	tbd	tbd	tbd			

Figure 4. EDDP work programme 2025

The DAC General Master Plan 02 [December 2024]

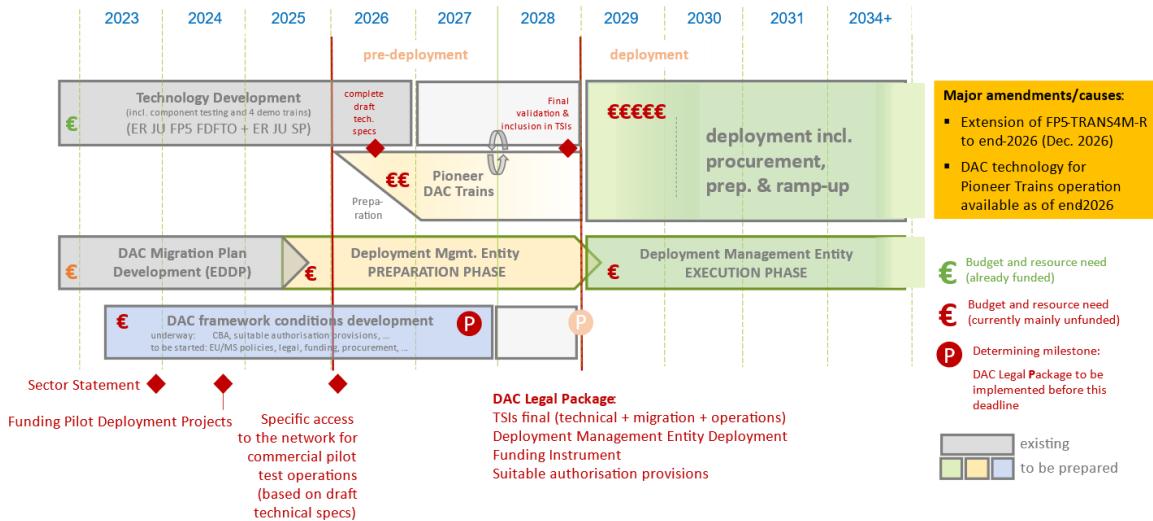


Figure 5. DAC General Master Plan 02

The Pioneer DAC Trains

The preparation of the so called **“Pioneer DAC Trains phase”**, formerly branded **“Pre-Deployment trains”**, took **additional huge unplanned effort for PM and PMO from beginning to around middle of Reporting Period 2.**

Following the publication of the EU-Rail’s JU request for expression of interest of participating in the Pioneer Train initiative in beginning of 2025, **47 sector stakeholders’ expressions of interest were received from by the EU-Rail JU until Mid-March 2024** (still in RP1).

The second information meeting for the applying stakeholders with consolidated inputs took place **on 24/04/2024** (figure 6) and the plan for the further proceeding was presented (figure 7).



Figure 6. Consolidated interested first wave companies for participation in Pioneer DAC Trains

All related presentations are available at the EU-Rail JU.

Subsequently, **47 (!) bilateral meetings** had to be organised and held by PM/PMO and participation of EU-Rail until June 2025, for which one additional staff member from the PMO was employed. The results served for discussion between EU-Rail JU and the European Commission / DG MOVE in June 2024.

The further consolidated results of the bilateral meetings were prepared for and presented by the EU-Rail JU in an information session on 04/07/2024, proving the huge interest in the DAC initiative e. g. via the main aggregated KPIs (figure 8).

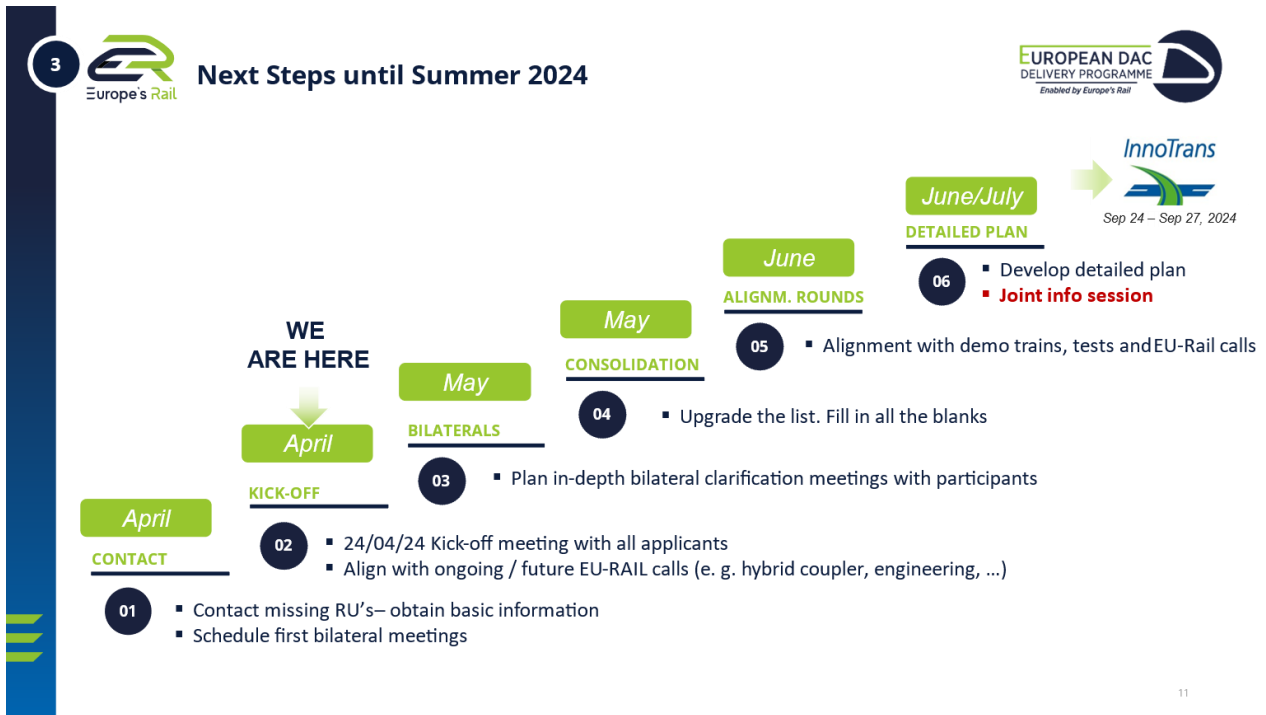


Figure 7. Planning of next steps for Pioneer DAC Trains in 2025

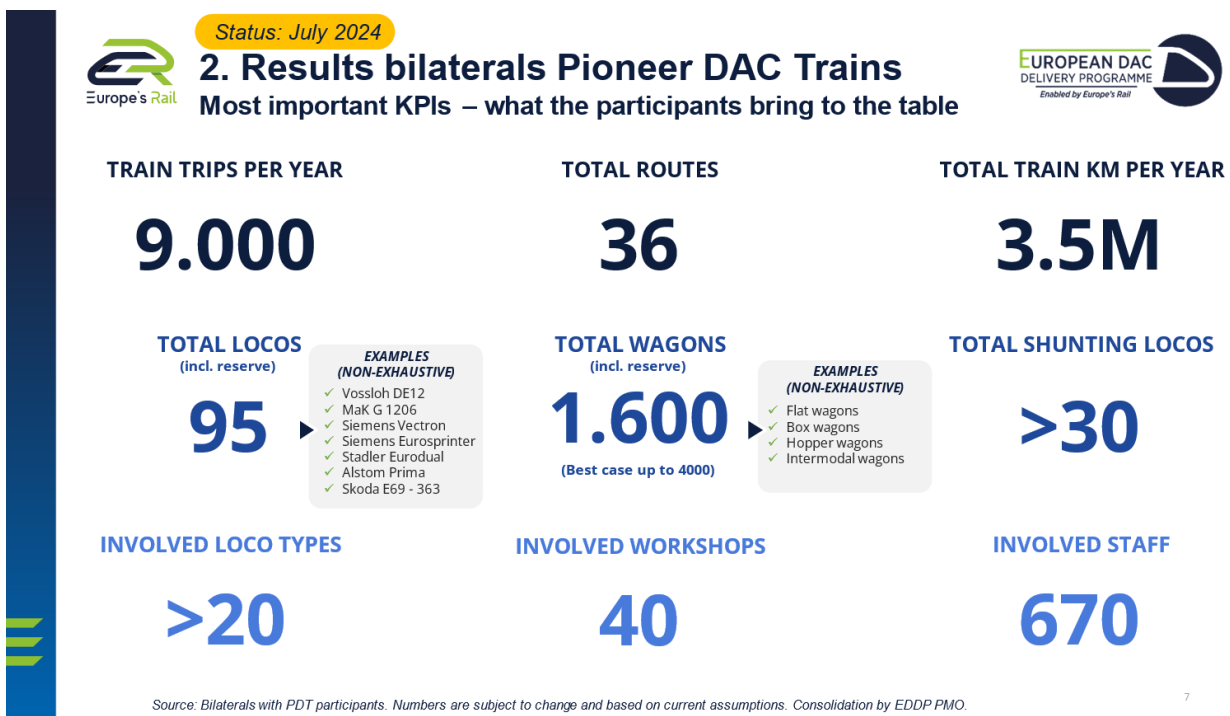


Figure 8. Main KPIs from Pioneer DAC Train bilaterals in 2025

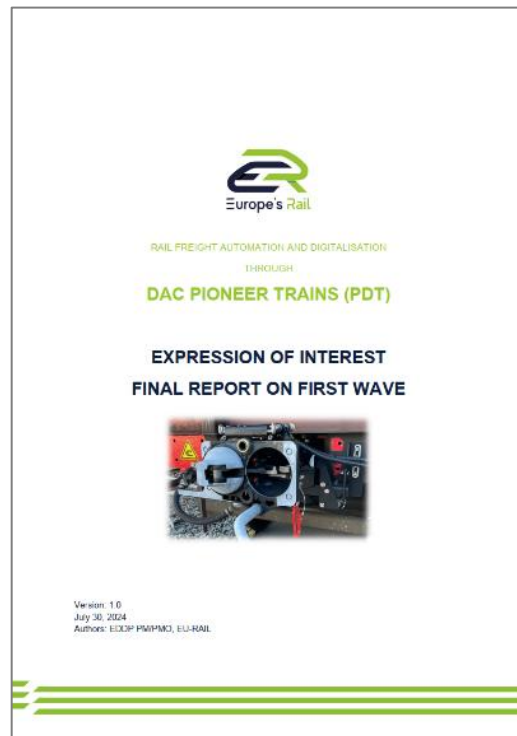


Figure 9. Final Report on first Wave Pioneer DAC Trains 2025

The overall report on all aspects of the project was issued on 30/07/2025 and is available at EU-Rail JU (figure 9). Table 3 shows the related total employed (unplanned) PM/PMO workload during RP2.

The Pioneer Train initiative and the accompanying EDDP/DACcord stakeholder management efforts were finally resulted in the publication of a Call under the “Connecting Europe Facilities” (CEF) funding opportunities on 24/09/2024, which opened the possibility of submission of studies for the validation of DAC technology/Pioneer DAC Trains ([CEF-T-2024-SIMOBGEN-REMIB-WORKS](#)). (figure 10)

**EU OBJECTIVE:
REMOVING INTEROPERABILITY BARRIERS**

2024: CEF Trainsoon calls for proposals

Details:

Year: 2024

Authority: EDDP/PM/PMO

Topic: RAIL

Priority: 1

Language: EN

Description:

Support the development of digital automatic coupling (DAC) technology for rail freight operations through the validation of DAC technology/Pioneer DAC Trains.

Objectives:

Support the development of digital automatic coupling (DAC) technology for rail freight operations through the validation of DAC technology/Pioneer DAC Trains.

[CEF-T-2024-SIMOBGEN-REMIB-WORKS](#): 640 mEUR in TOTAL for 10 topics

“ Studies concerning **Digital Automatic Coupling (DAC)** for rail freight operations (including **validating the system in commercial operations**). Projects must involve relevant stakeholder groups **from at least 4 Member States and include testing in cross border and shunting yards operations**. The studies can cover **all phases/tasks necessary** for collecting data on the system reliability and availability in commercial operations (technical, administrative, legal, certification/authorisation, procedures, etc.).

The studies/technical reports shall **contribute to a wider deployment of DAC in the EU and therefore be publicly available**.

Investments concerning rolling stock, notably the installation of sensors or other devices on wagons, are not supported, except as regards DAC studies

”

Figure 10. CEF call text for DAC validation studies (extract)

5.3. Support to EU-Rail JU in EDDP mechanisms, admin & decision making

The DACcord task consisted in “support the EU-Rail JU in relation to the EDDP mechanisms & admin. (incl. DAC section on EU)-Rail JU web page), report on a regular basis to the Programme Board (PB) and Supervisory Board (SB)” and in the, “together with the EU-Rail JU ED, preparation & managing of EDDP decision making/escalation mechanisms (EDDP Programme and Supervisory Board)” (cf. Grant Agreement).

The EDDP was managed and supported in close cooperation with the EU-Rail JU management team (EU-Rail JU ED, FP 5 programme manager and the EU-Rail JU System Pillar Task 4 representative). The coordination took place especially around 2-3 weeks prior to each Programme Board (PB) and Supervisory Board (SB) meetings and covered board and other general topics. Specific coordination meetings on programme topics with FP5 programme manager complemented the overall coordination.

The dates of these different EDDP/EU-Rail JU alignment meetings are listed in table 2.

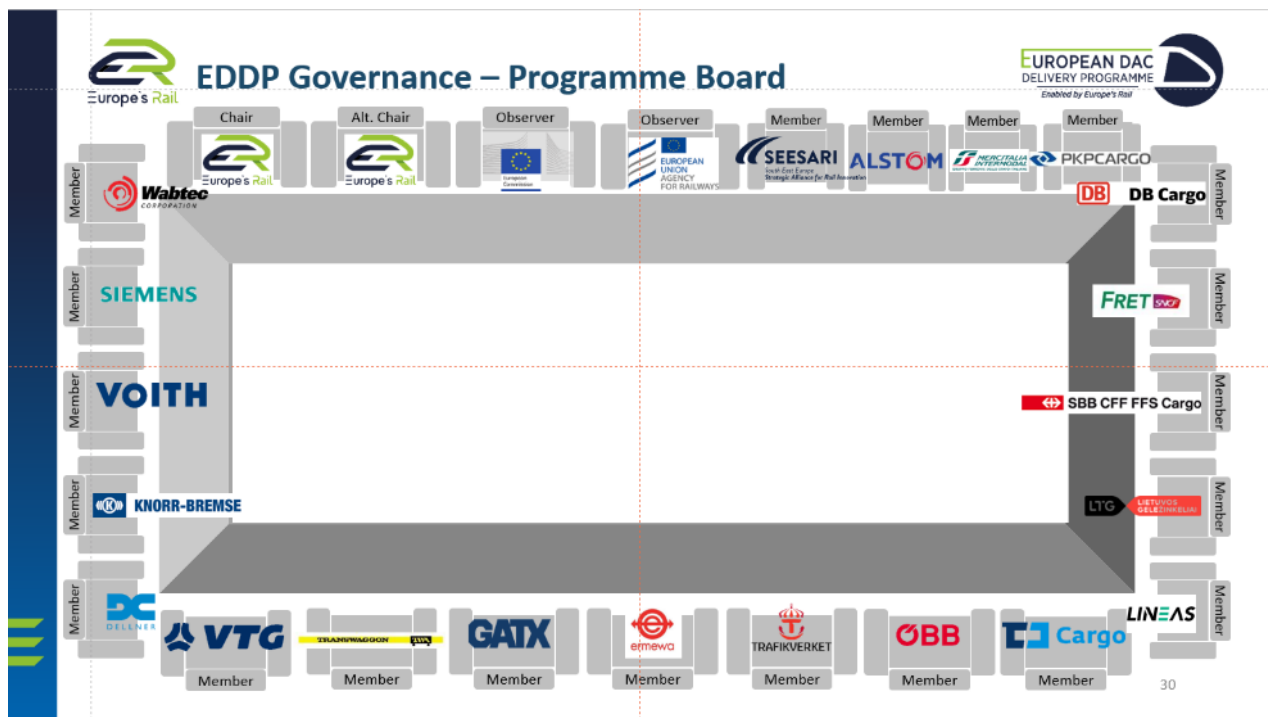


Figure 11. EDDP Governance – Programme Board (status April 2024)

The **EDDP Programme Board meetings** covered by this summary were held (all via video conference) on:

- › 25/04/2024, 26/06/2024, 17/09/2024, 26/11/2024
- › 11/03/2025

The EDDP Supervisory Board currently consists of 8 rail freight sector associations plus European Commission & Europe's Rail (chair and co-chair) plus European Union Agency for Railways, the RailFreightForward initiative and the International Union of Railways (UIC) (all observers).

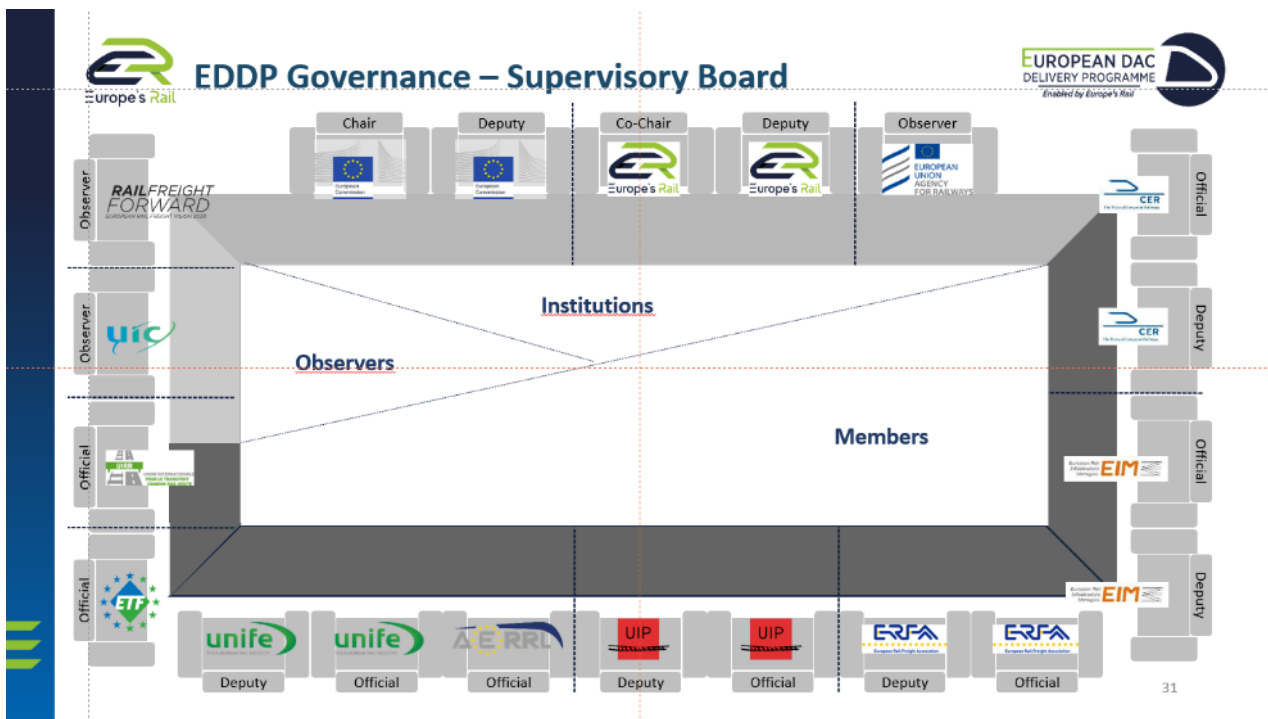


Figure 12. EDDP Governance – Supervisory Board (status April 2024)

The **EDDP Supervisory Board meetings** covered by this summary were held (all via video conference) on:

- › 03/07/2024, 14/10/2024, 03/12/2024
- › 21/03/2025

The EDDP programme management and, where required, the EDDP WP/work area leads presented the agenda topics according to the EDDP work programme either for information or for decision. The related presentations and Minutes of the Meeting are all available in the Europe's Rail Cooperation Tool IT environment.

The different board agendas with all topics prepared/managed prior to the meetings are **listed in the Annex of this summary**.

5.4. DAC work stream interface and overall risk management

The DACcord task consisted in “Management of the interfaces to related EDDP work streams (e. g. EDDP PB, FP5 advisory/ “sounding” boards) including interfaces to other DAC-related EU-Rail JU activities (e. g. System Pillar etc.) and EC and ERA by setting up regular exchange meetings; sharing of the outputs with EDDP and linked projects from EU-Rail JU Flagship Area 5; interaction with the System Pillar as needed (by meetings) and with the EDDP groups/actions” (cf. Grant Agreement).

The **main interfaces to the related EDDP work areas** were (see Figure 1) the:

- EU-Rail JU Flagship Project 5 TRANS4M-R (“A”)
- EU-Rail JU Flagship Project 5 advisory/ “sounding” boards (between “A” and C/D/E...)
- EC and ERA (together with the EU-Rail JU) (“E”)
- EU-Rail JU System Pillar (Task 4) (“F”)
- and, as of beginning-2024, the “Pioneer DAC Trains” project (“G”)

These interfaces were managed according to plan by regular exchange meetings on identified interface topics and sharing of the outputs with EDDP (mostly via the Programme/ Supervisory Boards).

Interface to EU-Rail Flagship Project 5 TRANS4M-R

Regular coordination meetings between EDDP PM & FP5 FDFTO project managers took place on:

April 2024	09, 11, 22, 23, 30
May 2024	02, 03, 06, 13, 14, 15
June 2024	14, 17, 18, 21, 28
July 2024	01, 04, 05, 08, 26, 29, 31
August 2024	19, 26
September 2024	10, 17, 20, 27
October 2024	02, 03, 10, 11, 24
November 2024	07, 14, 18, 27, 29
December 2024	05
January 2025	12, 14, 20
February 2025	03, 13, 20, 25, 28
March 2025	04, 13, 20, 21, 26

Interface to EU-Rail Flagship Project 5 advisory/ “sounding” boards

In order to keep the progress information for non-FP 5 members on FP5 developments (taking place in the FP5 TRANS4M-R project consortium, covered by a grant agreement and therefore not public per se), as open as possible, the so called “sounding boards” were continued. The FP 5 presented (after internal sign-off from FP5 Steering Committee) the progress on the work on

- a) operational procedures elaborated in FP5 and
- b) the state of play of technology development in FP5 to an interested audience.

Besides the intention to provide information to externals, these boards are especially important to gather feedback from the external participants on the ongoing work. The aim is to learn about potential improvements before the adopted final results will be taken over for the overall railway system by the EU-Rail JU's System Pillar. The (general) feedback from the participants is reported back to the EDDP boards.

The Sounding Boards were prepared together by FP5/ EDDP PM and took place planned on (see D12.1):

06.05.2024
07.10.2024
11.11.2024
10.02.2025

Figure 13. EDDP/FP5 Sounding Boards in Reporting Period 2

Interface to EU-Rail JU System Pillar (Task 4)

Regular synchronisation meetings between FP5 TRANS4M-R, EDDP and System Pillar (Task 4) continued to take place and covered and addressed for solution in EDDP, FP5 and SP: operational rules/rulebook, central(ised) software updates, train/ground information flow, train integrity (link to ERTMS).

These interface meetings have stopped at the end of Reporting Period 2 and are entirely replaced by the overarching joint DAC risk management workshops.

The meetings in RP2 took place on:

April 2024	19, 26
May 2024	02, 08, 09
June 2024	14, 28
July 2024	05, 08, 26, 29
August 2024	23
September 2024	06, 13
October 2024	04, 18
November 2024	08
December 2024	13
January 2025	10
February 2025	04, 07, 10, 14
March 2025	28



Interface to EC and ERA

In the work area “E” (see Figure 1), the main topics treated with **ERA** were the feeding of the further progressing FP5 specification on DAC technology into the draft TSI WAG in the so-called ERA TWG (Topical Working Group) Freight and the preparation of the vehicle authorisation provisions (driven by FP5 WP4). All contacts were coordinated with the EU-Rail JU.

The meetings with the EC had various backgrounds, e. g. alignment before board meetings, general info exchange, meetings on preparation of stakeholder meetings etc. All contacts were coordinated with the EU-Rail JU.

The meetings took place on:

April 2024	26, 29
May 2024	
June 2024	12, 14, 21, 28
July 2024	05, 08, 10
August 2024	26, 28, 30
September 2024	06, 13
October 2024	04, 09, 11, 18, 25
November 2024	06, 08
December 2024	06, 13
January 2025	06, 10, 24, 27
February 2025	04, 07, 14, 28
March 2025	07, 05, 13, 14, 17, 21

Overarching Risk Management

In implementation of the DACcord task *“Setting up & management of a programme risk and deviation management plan; proposing appropriate mitigating/countermeasures also for the implementing actions if needed; regular report in PB and SB”* (cf. **Grant Agreement**), the **joint, overarching approach to the risk management of all DAC-related activities** was agreed with the EU-Rail JU in Reporting Period 2.

For a proper programme risk management, the results to be achieved by the different EDDP work areas, FP5, SP and all other DAC-related projects have to be identified, planned, assessed and closely monitored.

The monitoring status of the individual activities / work streams / deliverables in the DAC migration roadmap is reported in the deliverable D7.1. The parts of these work streams which are identified as top risks are contained in the overall **DAC-related risk log** which was set-up for a first kick-off risk management workshop on 13/11/2024 (extract see figure 14).

According to common risk management practice, the risks have been assessed with their probability and severity with regards to the Pioneer DAC Trains and to deployment. The DAC risk log is accessible on DACcord Sharepoint for all members of the **DAC DFETO risk management team** (figure 15). The team will be extended for all potential upcoming additional DAC-related projects.

The **top risks** identified and assessed jointly in the team (**high probability/high severity**) were first reported in the 26/11/2024 Programme Board in a draft version, then developed further after the subsequent risk management workshop on 04/02/2025 into the **DAC DFETO top risks map** (figure 16).

The risk management workshops for Reporting Period 3 are planned in

- May 2025
- July 2025
- November 2025

(four/quarterly workshops during one year).

This system constitutes now the basis for joint, overarching risk management system for all DAC-related activities/projects etc. within the EU-Rail JU and potentially beyond.

It will serve as the basis for active delivery risk management throughout the DACcord Reporting Period 3 and after, including in the best case, if feasible and applicable one day, a Pioneer DAC Trains project.

The existing alignment meetings FP5/EDDP/SP and others (see beginning of this chapter) have therefore become obsolete and have been stopped.

DAC DFDTO risk management team



The below persons/roles from all DFDTO areas participate at the DAC DFDTO RM meetings:

Work Area	Entity	Role	Name
A	FA5	PM	Javier Ibanez de Yrigoyen
A	FP5	PM/PC	Molley Williams Patrick Seeßle
A	DFDTO	PM	Constanze Bannholzer Stefan Hagenlocher
A	FP5	SPoC topic 1 Operational Proced., Func. Req. & RAMSS	Andreas Haller
A	FP5	SPoC topic 2 System Architecture	Luc Imbert
A / E	FP5	SPoC topic 3 Authorisation & Standardisation	Thomas Erpenbeck
A	FP5	SPoC topic 4 DAC Core (electr., mech. & pneumatic)	Christian Radewagen
A	FP5	SPoC topic 5 DAC Train Functions incl. Power & Data	Steffen Jass
A	FP5	SPoC topic 6 DAC Testing & Demo	Anna Björkman
A	FP5	SPoC topic 7 Automated Yard Operations	Ralf Tadjje
A	DACTivate	PC	Marc-André Sahba
C	EDDP	SPoC topic 8 Migration	Jens Engelmann tbc
D	EDDP	SPoC topic 9 CBA, Funding & Financing	Jens Engelmann tbc
B	EDDP / DACcord	SPoC topic 10 Comm. & Stakeholder Management	Jens Engelmann
B	EDDP / DACcord	PM/PMO	Mark Topal Jens Engelmann Tibo Noël
B	DACFIT	PC	Ajith Sureshkumar Andreas Lipka
F	SP	Core Group Task 4	Karel van Gils, Johannes Gräber Giancarlo de Marco
F	SP T4	SP Contact topic 11 Safe train length	Roberto Tione
F	SP T4	SP Contact topic 12 DFDTO Central Instance (FCI)	Wolfgang Windolf
G	Pioneer Trains	PoCs for subjects x, y, z, ...	tbd

Figure 15. DAC DFDTO risk management team

DAC DFDTO top risks management

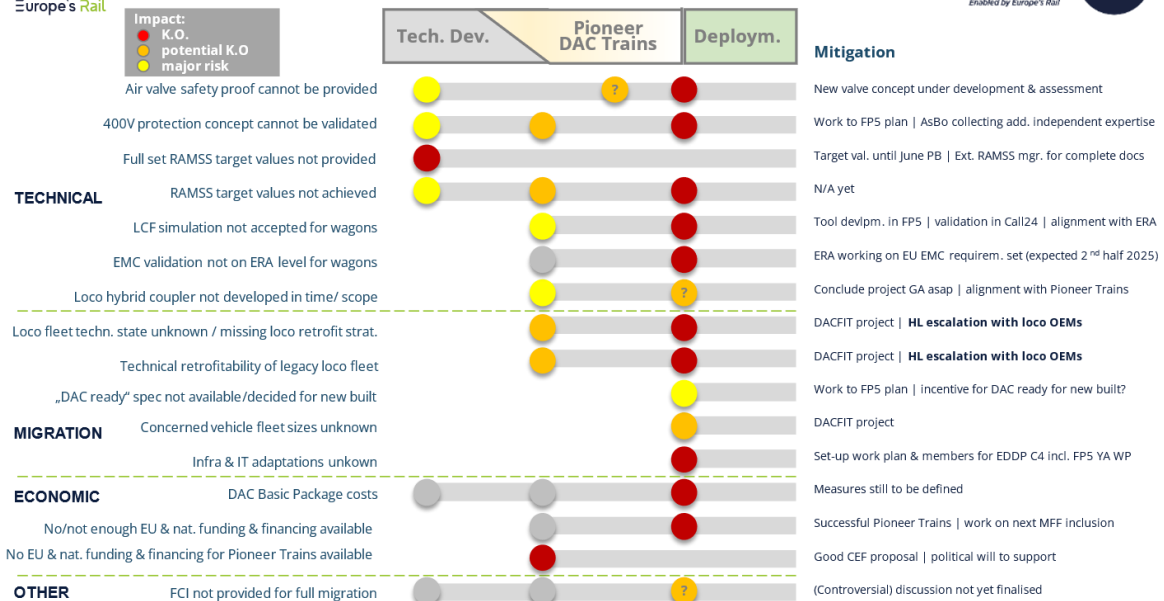


Figure 16. DAC DFDTO top risks map with impact point in time and mitigation measures



5.5. Stakeholder Management


The DACcord task consisted in *“Support the EU-Rail JU in the Stakeholder Management; organise/ steer the EDDP stakeholder management team; organisation, together with the FP5, of EDDP/FP5 sounding boards (technology, operational procedures and potentially more) to pre-align the sector (sounding board schedule to be aligned with FP5)” (cf. Grant Agreement).*

It seems worth to clarify that

- **“EDDP/DACcord Stakeholder Management”** refers to managing stakeholders **mainly outside the EDDP** (from Rail Freight actors up to the political level and to general Public, see D10.1), not primarily involved in the DAC technology development and its deployment planning
- **“EDDP/DACcord Programme Management”** means to manage the **internal actors/ stakeholders inside the programme** in order to achieve DAC technology readiness for deployment and preparation of the deployment (migration) itself, **AND to manage the external stakeholders** via the EDDP/DACcord Stakeholder Management in order to create the framework for deployment, especially in terms of data transparency, stakeholder conviction towards DAC and provision of budgetary resources (see “stakeholder management objectives”).

The works performed and results achieved are depicted in the DACcord WP10 deliverable D10.1.








Deliverable D 10.1
Summary II on Stakeholder Management activities

Project acronym:	DACcord
Starting date:	01/04/2024
Duration (in months):	36
Call (part) identifier:	HORIZON-ER-JU-2022-ExplR-07
Grant agreement no:	101121855
Due date of deliverable:	01-04-2025
Actual submission date:	17-04-2024
Responsible/Author:	UIC
Dissemination level:	PU
Status:	Issued

Reviewed: yes

This project has received funding from the European Union's Horizon Europe research and innovation programme under Grant Agreement No 101121855.


 - GA 101121855

Figure 17 Cover of D10.1 Summary II on Stakeholder Management Activities

6. Conclusions

This summary describes the performed **European DAC Delivery Programme (EDDP) general and specific programme, risk, deviation and interfaces management** in the DACcord WP4 from project month M13 until M24.

The tasks to be carried out under this programme / DACcord project could be realised successfully by the EDDP programme managers in support to the EU-Rail JU (leading to the “EDDP work programmes” with their deliverables) and in cooperation with all parties involved in the different EDDP work areas and their interfaces, including the European Commission and the European Union Agency for Railways.

In the Reporting Period 2, besides the management of the programme itself, the revision of the “General Master Plan” to V02 for the entire programme etc., it was a major step forward, in terms of dependency management and overall DAC objective achievement towards deployment, to bring all DAC-related activities under one umbrella and to install a regular overarching programme risk management across all these areas (DAC DFETO risk management).

Especially important for the successful evolution of the DAC initiative, the base for the “Pioneer DAC Trains” could be laid (with huge unplanned on-top efforts), together with the stakeholders involved.

The implementation of the EDDP stakeholder management plan (DACcord WP10) and especially the ramping-up of the “DAC Fora” system was a major step forward to engaging with European stakeholders in both ways, out from and into the EDDP.

The objective of the WP4 has been fully achieved and all tasks have been successfully performed.

It should be noted that, in view of the ambition, the European-wide perspective of the task and the multitude of stakeholders, the EDDP programme and DACcord project are severely under-resourced.

The **next steps** of the DACcord/EDDP programme management in the upcoming reporting period are:

- Further management of the ongoing tasks in the different EDDP work areas, including related risk management, and ongoing support to the EU-Rail JU, in line with the EDDP General Master Plan V02 (or updates)
- Integrated risk management of all DAC-related activities and projects and seamless integration of new EU-Rail projects in order to achieve the DAC Basic Package delivery for the Pioneer DAC Trains and for overall deployment
- Integration of the “Pioneer DAC Trains” project, as far as emerging
- As far as possible, implementation of the EDDP stakeholder management action plan (especially DAC Fora)

This work will be continued in the DACcord Work Package 5 (WP5) in the project months M25 to M36 and will be summarised in the DACcord deliverable D5.1.



7. References

For an overall information on the programme and its related work areas, refer to:

<https://rail-research.europa.eu/european-dac-delivery-programme/>

All project deliverables can be found in the related parts of the Europe's Rail Cooperation Tool IT environment (programme members only).

8. Appendices

EDDP Programme Board agendas

PB Agenda		
1. Introduction, Welcome, adoption of the Agenda		[EU-Rail/EC]
2. Review of actions since the last PB		[EU-Rail/PM]
FP5-TRANS4M-R/FDFTO		
3. E-Coupler decision	<i>point type</i>	[FP5]
4. D2.3 Architecture & D2.2 User Requirements	endorsement	[FP5]
5. Sounding boards results	information	[FP5]
EDDP AND MIGRATION ROADMAP		
6. Pre-Deployment Trains Concept + Plan	information	[PM/EU-Rail]
7. Definition of SPoCs	information	[PM]
8. Results of call "DAC fleet retrofitting & retrofit capacity plan"	information	[EU-Rail]
9. Updated EDDP detail planning for work areas C + D	information	[PM/EU-Rail]
10. EDDP stakeholder management plan + actions	information	[PM/DACcord]
11. Review Connecting Europe Day 02/04 & state of play Innotrans	information	[PM/EU-Rail]
System Pillar (Task 4)		
12. --	--	[SP Task 4]
13. AOB and closing		[All]

Figure 18. EDDP Programme Board agenda 25/04/2024

PB Agenda		
1. Introduction, Welcome, adoption of the Agenda		[EU-Rail/EC]
2. Review of actions since the last PB		[EU-Rail/PM]
EDDP and migration roadmap		
3. G: State of play 100 pioneer DAC trains incl. debrief EC meeting	<i>point type</i>	[EU-Rail/EC]
4. C1: migration roadmap quantitative fleet analysis	information	[EDDP WA C]
5. C1: migration roadmap European vehicle fleet upgrading database	information	[EDDP WA C]
6. C3: migration roadmap tech/operational alternative migration solutions	information	[EDDP WA C]
7. B diverse subjects: risk management, stakeholder management	information	[PM]
8. B2: Report on NCP kick-off meeting	information	[EC/EU-Rail/PM]
9. B2: Communication/dissemination 2024 - State of Play InnoTrans	information	[PM/EU-Rail]
FP5-TRANS4M-R/FDFTO		
10. Sounding board results	information	[FP5]
System Pillar (Task 4)		
11. --	information	[SP Task 4]
12. AOB and closing		[All]

Figure 19. EDDP Programme Board agenda 06/06/2024



PB Agenda



- | | | |
|--|--------------------|------------------|
| 1. Introduction, Welcome, adoption of the Agenda | | [EU-Rail / EC] |
| 2. Review of actions since the last PB | | [EU-Rail / PM] |
| EDDP and migration roadmap | | |
| 3. D1: Draft concept fun.& fin. models / (pre-)deployment mgmt. entity | <i>point type</i> | [EU-Rail/EC] |
| 4. C: Overall activities planning/sequencing + preconditions | information | [PM / EDDP WA C] |
| 5. C1: migration roadmap DACFIT: state of play, data governance | information | [DACFIT PM] |
| 6. (C1): overview on DAC related projects & locomotive solutions | endorsement | [EU-Rail] |
| 7. B1: General DAC Master Plan – evaluation for autumn 24 | information | [PM / EU-Rail] |
| 8. B2: Communication/dissemination 2024 State of Play InnoTrans | information | [PM / EU-Rail] |
| FP5-TRANS4M-R/FDFTO | | |
| 9. D5.1-5.5 etc. Final Coupler Specification (update) | information | [FP5] |
| System Pillar (Task 4) | | |
| 10. State of play, especially on FCI | information | [SP Task 4] |
| 11. AOB and closing | | [All] |

TLP geth (Adressatenkreis)

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Figure 20. EDDP Programme Board agenda 17/09/2024 (on-site in Vienna/ÖBB Headquarters)



PB Agenda



- | | | |
|--|--------------------|----------------|
| 1. Introduction, Welcome, adoption of the Agenda | | [EU-Rail / EC] |
| 2. Review of actions since the last PB | | [EU-Rail / PM] |
| EDDP and migration roadmap | | |
| 3. B1: EDDP/FP5/SPT4 Risk Management Workshop – state of play | <i>point type</i> | [PM] |
| 4. B1: General DAC Master Plan – possible impact on GMP 02 | information | [PM / EU-Rail] |
| 5. C1-C2: migration roadmap Fleet analyses, Retrofit Capacity: state of play | decision | [DACFIT PM] |
| 6. C1: migration roadmap Geographical scope of migration/vehicle fleet | information | [DACFIT PM] |
| 6. C1: migration roadmap Geographical scope of migration/vehicle fleet | decision | [DACFIT PM] |
| FP5-TRANS4M-R/FDFTO | | |
| 7. FP5-TRANS4M-R: Status and Overview SB 2024 | information | [FP5] |
| System Pillar (Task 4) | | |
| 8. Operational Rulebook - State of Play | information | [SP Task 4] |
| 9. AOB and closing | | [All] |
| - PB / SB dates 2025 | | |
| - Draft EDDP Work Programme 2025 | | |
| - EU-Rail Call for Tender “engineering solutions for DAC” | | |

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Figure 21. EDDP Programme Board agenda 26/11/2024



PB Agenda

1. Introduction, Welcome, adoption of the Agenda
2. Review of actions since the last PB

EDDP and migration roadmap

3. B1: DAC DFDTO Risk Management Workshop | state of play
4. B1: Suppliers' cross-licence agreement | state of play
5. FP5 WP19 results (LCC)
6. C: Migration roadmap
 - a) Reconfirmation of working assumptions for migration
 - b) Development of migration scenarios
 - c) Overarching requirements management in Polarion + first requirements
 - d) DACFIT - State of play

FP5-TRANS4M-R/DFDTO

7. FP5-TRANS4M-R | state of play
8. Manual uncoupling version for PDTs and migration
9. FA5 WS – Definition of future waves for projects

System Pillar (Task 4)

10. State of Play
11. AOB and closing

backup

12. B2: Stakeholder management | DAC Fora + NCPs – State of play

point type

information
information
information

information
information
decision
information

information
decision
information

information

information & action



[EU-Rail / EC]
[EU-Rail / PM]

[PM]
[FP5 SPOC 4]
[FP 5 WP19]

[WA C]
[PM]
[WA C]
[DACFIT PM]

[FP5]
[FP5]
[EU-RAIL]

[EU-RAIL]
[All / EU-RAIL]

[PM]

3

Figure 22. EDDP Programme Board agenda 11/03/2025

EDDP Supervisory Board agendas

 SB Agenda	
1. Introduction, Welcome, adoption of the Agenda	[EU-Rail/EC]
2. Review of actions since the last SB	[EU-Rail/PM]
FP5-TRANS4M-R/FDFTO	
3. E-Coupler decision	<i>point type</i> decision [FP5]
EDDP and migration roadmap	
4. G: State of play 100 pioneer DAC trains incl. debrief EC meeting	information [EU-Rail/EC]
5. Summary of the exchange in the 25/04/24 Programme Board	information [EU-Rail/PM]
6. Summary of the exchange in the 26/06/24 Programme Board	information [EU-Rail/PM]
7. B2: EDDP stakeholder management plan + actions	information [PM/DACcord]
8. B2: Report on NCP kick-off meeting	information [EC/PM]
9. B2: Communication/dissemination 2024 - State of Play InnoTrans	information [PM/EU-Rail]
System Pillar (Task 4)	
10. --	
11. AOB and closing	[All]

Figure 23. EDDP Supervisory Board agenda 03/07/2024

 SB Agenda	
1. Introduction, Welcome, adoption of the Agenda	[EU-Rail / EC]
2. Review of actions since the last PB	[EU-Rail / PM]
EDDP and migration roadmap	
3. D1: Draft concept fun.& fin. models CEF call publication	<i>point type</i> information [EC]
4. D1: Reaching out to MS for DAC fun/fin feedback from SB members	information [SB members]
5. B1: Summary of the exchange in the 17/09/24 Programme Board	information [PM / EU-Rail]
6. B1: Overview on DAC related projects	information [EU-Rail]
7. B1: General DAC Master Plan evaluation for autumn 24	information [PM / EU-Rail]
8. B2: Communication/dissemination 2024 InnoTrans review	information [PM / EU-Rail]
9. B2: Stakeholder management meeting with VORDAC 21/10/24	information [EC]
FP5-TRANS4M-R/FDFTO	
10. D5.1-5.5 etc. Final Coupler Specification (update)	information [FP5]
11. ERA and NSA state of play authorisation	information [FP5]
System Pillar (Task 4)	
12. --	information [SP Task 4]
13. AOB and closing	[All]

Figure 24. EDDP Supervisory Board agenda 14/10/2024



SB Agenda



- | | | |
|--|---|----------------|
| 1. Introduction, Welcome, adoption of the Agenda | | [EU-Rail / EC] |
| 2. Review of actions since the last PB | | [EU-Rail / PM] |
| EDDP and migration roadmap | | |
| 3. B1: EDDP/FP5/SPT4 Risk Management Workshop – state of play | <i>point type</i>
information | [PM] |
| 4. B1: General DAC Master Plan - possible impact | decision | [PM / EU-Rail] |
| 5. C1-C2: Summary of the exchange in the 26/11/24 PB | information | [PM / DACFIT] |
| 6. C1: migration roadmap Geographical scope of migration/vehicle fleet | decision | [PM / DACFIT] |
| FP5-TRANS4M-R/FDFTO | | |
| 7. FP5-TRANS4M-R: Status and Overview SB 2024 | information | [FP5] |
| System Pillar (Task 4) | | |
| 8. Operational Rulebook - State of Play | information | [SP Task 4] |
| 9. AOB and closing | | [All] |
| - PB / SB dates 2025 | | |
| - Draft EDDP Work Programme 2025 | | |
| - EU-Rail Call for Tender “engineering solutions for DAC” | | |

Figure 25. EDDP Supervisory Board agenda 03/12/2024



SB Agenda



- | | | |
|---|---|-----------------|
| 1. Introduction, Welcome, adoption of the Agenda | | [EU-Rail / EC] |
| 2. Review of actions since the last PB | | [EU-Rail / PM] |
| EDDP and migration roadmap | | |
| 3. B1: DAC FDFTO Risk Management Workshop state of play | <i>point type</i>
information | [PM] |
| 4. Summary of the exchange in the 11/03/25 PB | information | [PM] |
| 5. C: Development of migration scenarios | information | [PM] |
| 6. C: Overarching DAC requirements management | decision | [PM/EU-Rail] |
| 7. B2: Stakeholder management DAC Fora + NCPs – State of play | information & action | [PM] |
| FP5-TRANS4M-R/FDFTO | | |
| 8. FP5-TRANS4M-R state of play | information | [FP5] |
| 9. Manual uncoupling version for PDTs and migration | decision | [FP5] |
| 10. FA5 WS – Definition of future waves for projects | information | [EU-RAIL] |
| System Pillar (Task 4) | | |
| 11. State of Play | information | [EU-RAIL] |
| 12. AOB and closing | | [All / EU-RAIL] |

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Figure 26. EDDP Supervisory Board agenda 21/03/2025