

SESAAR		Active							APT	
AOP05		Airport Collaborative Decision Making (A-CDM)								
REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

### Subject matter and scope

Implement Airport CDM (A-CDM) to enhance the operational efficiency of airports and improve their integration into the Air Traffic Management Network (ATMN) while maintaining or improving the safety levels. These objectives are achievable by increasing the information sharing between the local ANSP, airport operator, aircraft operators, ground handlers, the NM and other airport service providers; and improving the cooperation between these partners to enhance the predictability of events and optimise the utilisation of resources therefore increase the efficiency of the overall system.

The Airport CDM concept is built on the following elements:

- The foundations for Airport CDM are Information Sharing and the Milestone Approach. They consist in collaborative information sharing and monitoring of the progress of a flight from the initial planning to the take off. Those two elements allow the airport partners to achieve a common situational awareness and predict the forthcoming events for each flight.
- Variable Taxi Time Calculation, Collaborative Pre-Departure Sequencing (i.e. initial DMAN) and CDM in Adverse Conditions allow the airport partners to further improve the local management of airport operations, whatever the situation at the airport.
- Once A-CDM has been implemented locally, the link with the ATMN can be strengthened through the exchange of flight update messages between the CDM airport and the NM. This last building block of the A-CDM concept facilitates the flow and capacity management, helps reduce uncertainty and increases efficiency at the network level.

NOTE FOR MILITARY AUTHORITIES: It is the responsibility of each military authority to review this Objective IN ITS ENTIRETY and address each of the SLoAs that the military authority considers RELEVANT for itself. This has to be done on top and above of the review of "MIL" SLoAs which identify actions EXCLUSIVE to military authorities.

### Applicability Area(s) & Timescale(s)

Applicability Area		See list of airports in MP Level 3 Implementation Plan - Annexes			
Timescales:		From:	By:	Applicable to:	
Initial operational capability		01/01/2004		Applicability Area	
Full operational capability			31/12/2020	Applicability Area	

### References

#### European ATM Master Plan

Ol step -	<a href="#">[AO-0501]-Improved Operations in Adverse Conditions through Airport Collaborative Decision Making</a>									
	Enablers -	PRO-204a	PRO-204b	PRO-204c	PRO-204d					
Ol step -	<a href="#">[AO-0601]-Improved Turn-Round Process through Collaborative Decision Making</a>									
	Enablers -	AIRPORT-31	CDM-01 AOP19	PRO-213a	PRO-213b					
Ol step -	<a href="#">[AO-0602]-Collaborative Pre-departure Sequencing</a>									
	Enablers -	CDM-01 AOP19	PRO-214a	PRO-214b						
Ol step -	<a href="#">[AO-0603]-Improved De-icing Operation through Collaborative Decision Making</a>									
	Enablers -	AIRPORT-31	CDM-01 AOP19	PRO-073	PRO-075 ENV02					
Ol step -	<a href="#">[TS-0201]-Basic Departure Management (Pre-departure Management)</a>									
	Enablers -	AERODROME -ATC-08 AOP19								

Legend:	WXYZ-001	Covered by SLoA(s) in this objective	WXYZ-002 zzz	Covered by SLoA(s) in another objective Objective covering the enabler	WXYZ-003	Not covered in the Implementation Plan
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#### Applicable legislation

-none-
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<b>AOP05</b>	<b>Airport Collaborative Decision Making (A-CDM)</b>
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## Essential Operational Changes

Airport and TMA performance
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## SESAR Solution

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## ICAO GANP - ASBUs

ACDM-B0/1	Airport CDM Information Sharing (ACIS)
ACDM-B0/2	Integration with ATM Network function
NOPS-B0/4	Initial Airport/ATFM slots and A-CDM Network Interface

## Deployment Programme

- none -	
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## European Plan for Aviation Safety

- none -	
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## Operating Environments

Airport
En-Route
Network
Terminal Airspace

## Stakeholder Lines of Action (SLoAs)

SLoA ref.	Title	From	By
<b>AOP05-ASP01</b>	Define and agree performance objectives and KPIs at local level, specific to ANSP in accordance with A-CDM Manual guidelines	01/01/2004	01/01/2021
<b>AOP05-ASP02</b>	Define and implement local Air Navigation Service (ANS) procedures for information sharing through Letters of Agreement (LoAs) and/or Memorandum of Understanding (MoU) in accordance with A-CDM Manual guidelines	01/01/2004	01/01/2021
<b>AOP05-ASP03</b>	Define and implement local procedures for turnaround processes in accordance with CDM manual guidelines	01/01/2004	01/01/2021
<b>AOP05-ASP04</b>	Continually review and measure airport performance in accordance with Airport CDM Manual guidelines	01/01/2004	01/01/2021
<b>AOP05-ASP05</b>	Define and implement variable taxi-time and predeparture sequencing procedure (i. e. initial DMAN) according to airport CDM Manual guidelines	<b>DELETED</b>	
<b>AOP05-ASP06</b>	Define and implement procedures for CDM in adverse conditions, including the de-icing according to airport CDM Manual guidelines	01/01/2012	01/01/2021
<b>AOP05-APO01</b>	Define and agree performance objectives and KPIs at local level specific to airport operations in accordance with A-CDM Manual guidelines	01/01/2004	01/01/2021
<b>AOP05-APO02</b>	Define and implement local airport operations procedures for information sharing through Letters of Agreement (LoAs) and/or Memorandum of Understanding (MoU) in accordance with A-CDM Manual guidelines	01/01/2004	01/01/2021
<b>AOP05-APO03</b>	Define and implement local procedures for turnaround processes in accordance with CDM manual guidelines (baseline CDM)	01/01/2004	01/01/2021
<b>AOP05-APO04</b>	Continually review and measure airport performance in accordance with Airport CDM Manual guidelines	01/01/2004	01/01/2021
<b>AOP05-APO05</b>	Define and implement the exchange of messages, Flight Update Message (FUM) and Departure Planning Information (DPI) between NMOC and the airport in accordance with A-CDM Manual guidelines	01/03/2005	01/01/2021
<b>AOP05-APO06</b>	Define and implement procedures for CDM in adverse conditions including the de-icing according to airport CDM Manual guidelines	01/06/2006	01/01/2021
<b>AOP05-USE01</b>	Define and agree performance objectives and KPIs at local level, specific to aircraft operators, in accordance with A-CDM Manual guidelines	01/01/2004	01/01/2021
<b>AOP05-USE02</b>	Define and implement local aircraft operators procedures for information sharing through LoAs and/or MoU in accordance with A-CDM manual guidelines	01/01/2004	01/01/2021

AOP05		Airport Collaborative Decision Making (A-CDM)	
AOP05-USE03	Define and implement local procedures for turnaround processes in accordance with A-CDM manual guidelines	01/01/2004	01/01/2021
AOP05-USE04	Continually review and measure airport performance in accordance with Airport CDM Manual guidelines	01/01/2004	01/01/2021
AOP05-USE05	Define and implement procedures for CDM in adverse conditions including the de-icing according to A-CDM Manual guidelines	01/01/2012	01/01/2021
AOP05-NM01	Update NM systems and define procedures to support the exchange of messages, Flight Update Message (FUM) and Departure Planning Information (DPI) between NMOC and airports in accordance with A-CDM Manual guidelines	FINALISED	
Description of finalised and deleted SLOAs is available on the eATM Portal @ <a href="https://www.eatmportal.eu/working/depl/essip_objectives">https://www.eatmportal.eu/working/depl/essip_objectives</a>			

### Expected Performance Benefits

<b>Safety:</b>	-
<b>Capacity:</b>	Improved through optimal use of facilities and services, better use of airport and ATFM slots.
<b>Operational Efficiency:</b>	Improved system efficiency and predictability. Significant decrease in fuel burn through better timed operations.
<b>Cost Efficiency:</b>	Increased airport revenue through additional flights and passengers.
<b>Environment:</b>	Reduced noise and emissions due to limiting engine ground running time due to better timed operations.
<b>Security:</b>	-

### Detailed SLOA Descriptions

AOP05-ASP01	Define and agree performance objectives and KPIs at local level, specific to ANSP in accordance with A-CDM Manual guidelines	From: 01/01/2004	By: 01/01/2021
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	Agree and define specific performance objectives and KPIs through a local A-CDM committee, in co-operation with other stakeholders involved.		
<b>Supporting material(s):</b>	EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</a> EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports">https://eshop.eurocae.net/eurocae-documents-and-reports</a> EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</a> ETSI - EN 303 212 - Airport Collaborative Decision Making (A-CDM); Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004 - Ver. 1.1.1 - OJ 2010C168/04 / 06/2010 Url : <a href="https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf">https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</a> EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : <a href="https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF">https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</a>		
<b>Finalisation criteria:</b>	1 - List of performance objectives and KPIs has been agreed.		
AOP05-ASP02	Define and implement local Air Navigation Service (ANS) procedures for information sharing through Letters of Agreement (LoAs) and/or Memorandum of Understanding (MoU) in accordance with A-CDM Manual guidelines	From: 01/01/2004	By: 01/01/2021
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	Agree, define and implement local procedures for information sharing and information management systems based on A-CDM Implementation Manual, in co-operation with other stakeholders involved.		
<b>Supporting material(s):</b>	EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</a> EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports">https://eshop.eurocae.net/eurocae-documents-and-reports</a> EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</a> ETSI - EN 303 212 - Airport Collaborative Decision Making (A-CDM); Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004 - Ver. 1.1.1 - OJ 2010C168/04 / 06/2010 Url : <a href="https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf">https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</a> EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : <a href="https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF">https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</a>		

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ATM Master Plan relationship:	<a href="#">[AIRPORT-31]-Airport CDM (levels 1, 2 &amp; 3)</a>		
Finalisation criteria:	1 - Agreed LoA or MoU between the Airport CDM Partners has been signed.		
AOP05-ASP03	Define and implement local procedures for turnaround processes in accordance with CDM manual guidelines	From: 01/01/2004	By: 01/01/2021
Action by:	ANS Providers		
Description & purpose:	Define and implement local procedures for turnaround processes (milestone approach) based on A-CDM Implementation Manual and through LoAs.		
Supporting material(s):	EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</a> EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports">https://eshop.eurocae.net/eurocae-documents-and-reports</a> EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</a> ETSI - EN 303 212 - Airport Collaborative Decision Making (A-CDM); Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004 - Ver. 1.1.1 - OJ 2010C168/04 / 06/2010 Url : <a href="https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf">https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</a> EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : <a href="https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF">https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</a>		
ATM Master Plan relationship:	<a href="#">[PRO-213a]-CDM information sharing Airport Procedures for turn-around</a>		
Finalisation criteria:	1 - Agreed LoA or MoU between the A-CDM Partners has been signed.		
AOP05-ASP04	Continually review and measure airport performance in accordance with Airport CDM Manual guidelines	From: 01/01/2004	By: 01/01/2021
Action by:	ANS Providers		
Description & purpose:	Measure performance (KPIs) according to agreed success criteria, and quantify the benefits at local airport after implementation and through a local A-CDM committee.		
Supporting material(s):	EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</a> EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports">https://eshop.eurocae.net/eurocae-documents-and-reports</a> EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</a> ETSI - EN 303 212 - Airport Collaborative Decision Making (A-CDM); Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004 - Ver. 1.1.1 - OJ 2010C168/04 / 06/2010 Url : <a href="https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf">https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</a> EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : <a href="https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF">https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</a>		
Finalisation criteria:	1 - Results/benefits at airport have been published.		
AOP05-ASP06	Define and implement procedures for CDM in adverse conditions, including the de-icing according to airport CDM Manual guidelines	From: 01/01/2012	By: 01/01/2021
Action by:	ANS Providers		
Description & purpose:	Agree, define and implement local CDM procedures to manage adverse conditions based on A-CDM Implementation Manual, in co-operation with other stakeholders involved.		

AOP05		Airport Collaborative Decision Making (A-CDM)	
Supporting material(s):		EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</a> EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports">https://eshop.eurocae.net/eurocae-documents-and-reports</a> EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</a> ETSI - EN 303 212 - Airport Collaborative Decision Making (A-CDM); Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004 - Ver. 1.1.1 - OJ 2010C168/04 / 06/2010 Url : <a href="https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf">https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</a> EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : <a href="https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF">https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</a>	
ATM Master Plan relationship:		<a href="#">[PRO-073]-Airport Procedures to maximise throughput of de-icing stands</a> <a href="#">[PRO-204b]-Collaborative Procedures (ATC) for improving Airport Operations in Adverse Conditions</a>	
Finalisation criteria:		1 - LoA or MoU between the Airport CDM Partners has been agreed. 2 - CDM procedures for the management of adverse conditions, including de-icing, have been established.	
AOP05-APO01	Define and agree performance objectives and KPIs at local level specific to airport operations in accordance with A-CDM Manual guidelines	From: 01/01/2004	By: 01/01/2021
Action by:		Airport Operators	
Description & purpose:		Agree and define specific performance objectives and KPIs through a local A-CDM committee, in co-operation with other stakeholders involved.	
Supporting material(s):		EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</a> EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports">https://eshop.eurocae.net/eurocae-documents-and-reports</a> EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</a> ETSI - EN 303 212 - Airport Collaborative Decision Making (A-CDM); Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004 - Ver. 1.1.1 - OJ 2010C168/04 / 06/2010 Url : <a href="https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf">https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</a> EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : <a href="https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF">https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</a>	
Finalisation criteria:		1 - List of performance objectives and KPIs has been agreed.	
AOP05-APO02	Define and implement local airport operations procedures for information sharing through Letters of Agreement (LoAs) and/or Memorandum of Understanding (MoU) in accordance with A-CDM Manual guidelines	From: 01/01/2004	By: 01/01/2021
Action by:		Airport Operators	
Description & purpose:		Agree, define and implement local procedures for information sharing and information management systems based on A-CDM Implementation Manual, in co-operation with other stakeholders involved.	
Supporting material(s):		EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</a> EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports">https://eshop.eurocae.net/eurocae-documents-and-reports</a> EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</a> ETSI - EN 303 212 - Airport Collaborative Decision Making (A-CDM); Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004 - Ver. 1.1.1 - OJ 2010C168/04 / 06/2010 Url : <a href="https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf">https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</a> EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : <a href="https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF">https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</a>	
ATM Master Plan relationship:		<a href="#">[AIRPORT-31]-Airport CDM (levels 1, 2 &amp; 3)</a>	
Finalisation criteria:		1 - LoA or MoU between the A-CDM Partners has been agreed. 2 - Information sharing has been implemented	

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AOP05-APO03	Define and implement local procedures for turnaround processes in accordance with CDM manual guidelines (baseline CDM)	From: 01/01/2004	By: 01/01/2021
Action by:	Airport Operators		
Description & purpose:	Define and implement local procedures for turnaround processes (milestone approach) based on A-CDM Implementation Manual and through LoAs.		
Supporting material(s):	<p>EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008            Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</a></p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008            Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports">https://eshop.eurocae.net/eurocae-documents-and-reports</a></p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008            Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</a></p> <p>ETSI - EN 303 212 - Airport Collaborative Decision Making (A-CDM); Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004            - Ver. 1.1.1 - OJ 2010C168/04 / 06/2010            Url : <a href="https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf">https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</a></p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017            Url : <a href="https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF">https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</a></p>		
ATM Master Plan relationship:	<a href="#">[PRO-213a]-CDM information sharing Airport Procedures for turn-around</a>		
Finalisation criteria:	1 - LoA or MoU between the A-CDM Partners has been agreed.		
AOP05-APO04	Continually review and measure airport performance in accordance with Airport CDM Manual guidelines	From: 01/01/2004	By: 01/01/2021
Action by:	Airport Operators		
Description & purpose:	Measure performance (KPIs) according to agreed success criteria, and quantify the benefits at local airport after implementation and through a local A-CDM committee.		
Supporting material(s):	<p>EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008            Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</a></p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008            Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports">https://eshop.eurocae.net/eurocae-documents-and-reports</a></p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008            Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</a></p> <p>ETSI - EN 303 212 - Airport Collaborative Decision Making (A-CDM); Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004            - Ver. 1.1.1 - OJ 2010C168/04 / 06/2010            Url : <a href="https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf">https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</a></p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017            Url : <a href="https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF">https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</a></p>		
Finalisation criteria:	1 - Results/benefits at airport have been published.		
AOP05-APO05	Define and implement the exchange of messages, Flight Update Message (FUM) and Departure Planning Information (DPI) between NMOC and the airport in accordance with A-CDM Manual guidelines	From: 01/03/2005	By: 01/01/2021
Action by:	Airport Operators		
Description & purpose:	Agree, define and implement local procedures for exchange of messages (FUMs and DPIs) between NM and the airport based on A-CDM Implementation Manual, in co-operation with other stakeholders involved.		
Supporting material(s):	<p>EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008            Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</a></p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008            Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports">https://eshop.eurocae.net/eurocae-documents-and-reports</a></p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008            Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</a></p> <p>ETSI - EN 303 212 - Airport Collaborative Decision Making (A-CDM); Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004            - Ver. 1.1.1 - OJ 2010C168/04 / 06/2010            Url : <a href="https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf">https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</a></p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017            Url : <a href="https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF">https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</a></p>		



AOP05	Airport Collaborative Decision Making (A-CDM)		
ATM Master Plan relationship:	<a href="#">[PRO-214a]-Airport CDM Procedures for pre-departure sequencing</a>		
Finalisation criteria:	1 - LoA or MoU between the A-CDM Partners and the NM has been agreed. 2 - Exchange of messages has been implemented.		
AOP05-APO06	<b>Define and implement procedures for CDM in adverse conditions including the de-icing according to airport CDM Manual guidelines</b>	From: 01/06/2006	By: 01/01/2021
Action by:	<b>Airport Operators</b>		
Description & purpose:	Agree, define and implement local CDM procedures to manage adverse conditions based on A-CDM Implementation Manual, in co-operation with other stakeholders involved.		
Supporting material(s):	<p>EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008            Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</a></p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008            Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports">https://eshop.eurocae.net/eurocae-documents-and-reports</a></p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008            Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</a></p> <p>ETSI - EN 303 212 - Airport Collaborative Decision Making (A-CDM); Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004            - Ver. 1.1.1 - OJ 2010C168/04 / 06/2010            Url : <a href="https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf">https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</a></p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017            Url : <a href="https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF">https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</a></p>		
ATM Master Plan relationship:	<a href="#">[PRO-073]-Airport Procedures to maximise throughput of de-icing stands</a> <a href="#">[PRO-204a]-Collaborative Procedures (Airport) for improving Airport Operations in Adverse Conditions</a>		
Finalisation criteria:	1 - LoA or MoU between the A-CDM partners has been agreed. 2 - CDM procedures for the management of adverse conditions, including de-icing, have been established.		
AOP05-USE01	<b>Define and agree performance objectives and KPIs at local level, specific to aircraft operators, in accordance with A-CDM Manual guidelines</b>	From: 01/01/2004	By: 01/01/2021
Action by:	<b>Airspace Users</b>		
Description & purpose:	Agree and define specific performance objectives and KPIs at local level, in co-operation with airport and ANSP.		
Supporting material(s):	<p>EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008            Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</a></p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008            Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports">https://eshop.eurocae.net/eurocae-documents-and-reports</a></p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008            Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</a></p> <p>ETSI - EN 303 212 - Airport Collaborative Decision Making (A-CDM); Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004            - Ver. 1.1.1 - OJ 2010C168/04 / 06/2010            Url : <a href="https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf">https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</a></p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017            Url : <a href="https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF">https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</a></p>		
Finalisation criteria:	1 - List of performance objectives and KPIs have been agreed with ANSP and AO.		
AOP05-USE02	<b>Define and implement local aircraft operators procedures for information sharing through LoAs and/or MoU in accordance with A-CDM manual guidelines</b>	From: 01/01/2004	By: 01/01/2021
Action by:	<b>Airspace Users</b>		
Description & purpose:	Agree, define and implement local procedures for information sharing and information management systems based on A-CDM Implementation Manual, in co-operation with other stakeholders involved.		

<b>AOP05</b>	<b>Airport Collaborative Decision Making (A-CDM)</b>		
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<b>Supporting material(s):</b>	EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</a> EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports">https://eshop.eurocae.net/eurocae-documents-and-reports</a> EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</a> ETSI - EN 303 212 - Airport Collaborative Decision Making (A-CDM); Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004 - Ver. 1.1.1 - OJ 2010C168/04 / 06/2010 Url : <a href="https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf">https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</a> EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : <a href="https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF">https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</a>		
<b>ATM Master Plan relationship:</b>	<a href="#">[AIRPORT-31]-Airport CDM (levels 1, 2 &amp; 3)</a>		
<b>Finalisation criteria:</b>	1 - LoA or MoU between the A-CDM partners has been agreed.		
<b>AOP05-USE03</b>	<b>Define and implement local procedures for turnaround processes in accordance with A-CDM manual guidelines</b>	<b>From:</b> 01/01/2004	<b>By:</b> 01/01/2021
<b>Action by:</b>	<b>Airspace Users</b>		
<b>Description &amp; purpose:</b>	Define and implement local procedures for turnaround processes (milestone approach) based on A-CDM Implementation Manual and through LoAs.		
<b>Supporting material(s):</b>	EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</a> EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports">https://eshop.eurocae.net/eurocae-documents-and-reports</a> EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</a> ETSI - EN 303 212 - Airport Collaborative Decision Making (A-CDM); Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004 - Ver. 1.1.1 - OJ 2010C168/04 / 06/2010 Url : <a href="https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf">https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</a> EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : <a href="https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF">https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</a>		
<b>ATM Master Plan relationship:</b>	<a href="#">[PRO-213b]-CDM information sharing Airline Procedures for turn-around</a>		
<b>Finalisation criteria:</b>	1 - LoA or MoU between the A-CDM partners has been agreed.		
<b>AOP05-USE04</b>	<b>Continually review and measure airport performance in accordance with Airport CDM Manual guidelines</b>	<b>From:</b> 01/01/2004	<b>By:</b> 01/01/2021
<b>Action by:</b>	<b>Airspace Users</b>		
<b>Description &amp; purpose:</b>	Measure performance (KPIs) according to agreed success criteria and quantify the benefits at local airport after implementation and through a local A-CDM committee.		
<b>Supporting material(s):</b>	EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</a> EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports">https://eshop.eurocae.net/eurocae-documents-and-reports</a> EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</a> ETSI - EN 303 212 - Airport Collaborative Decision Making (A-CDM); Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004 - Ver. 1.1.1 - OJ 2010C168/04 / 06/2010 Url : <a href="https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf">https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</a> EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : <a href="https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF">https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</a>		
<b>Finalisation criteria:</b>	1 - Results/benefits at airport have been published.		
<b>AOP05-USE05</b>	<b>Define and implement procedures for CDM in adverse conditions including the de-icing according to A-CDM Manual guidelines</b>	<b>From:</b> 01/01/2012	<b>By:</b> 01/01/2021
<b>Action by:</b>	<b>Airspace Users</b>		



AOP05	Airport Collaborative Decision Making (A-CDM)		
<b>Description &amp; purpose:</b>	Agree, define and implement local CDM procedures to manage adverse conditions based on A-CDM Implementation Manual, in co-operation with other stakeholders involved.		
<b>Supporting material(s):</b>	<p>EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008  Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</a></p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008  Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports">https://eshop.eurocae.net/eurocae-documents-and-reports</a></p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008  Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</a></p> <p>ETSI - EN 303 212 - Airport Collaborative Decision Making (A-CDM); Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004  - Ver. 1.1.1 - OJ 2010C168/04 / 06/2010  Url : <a href="https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf">https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</a></p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017  Url : <a href="https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF">https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</a></p>		
<b>ATM Master Plan relationship:</b>	<a href="#">[PRO-204c]-Collaborative Procedures (Airlines) for improving Airport Operations in Adverse Conditions</a>		
<b>Finalisation criteria:</b>	1 - LoA or MoU between the A-CDM partners has been agreed. 2 - CDM procedures for the management of adverse conditions, including de-icing, have been established.		
<b>AOP05-NM01</b>	<b>Update NM systems and define procedures to support the exchange of messages, Flight Update Message (FUM) and Departure Planning Information (DPI) between NMOC and airports in accordance with A-CDM Manual guidelines</b>	<b>From:</b>	<b>By:</b>
		01/03/2005	01/01/2021
<b>Action by:</b>	<b>NM</b>		
<b>Description &amp; purpose:</b>	Update NM systems and define procedures to support the exchange of messages (FUMs and DPIs) between NM and airports based on A-CDM Implementation Manual.		
<b>Supporting material(s):</b>	<p>EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008  Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</a></p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008  Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports">https://eshop.eurocae.net/eurocae-documents-and-reports</a></p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008  Url : <a href="https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member">https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</a></p> <p>ETSI - EN 303 212 - Airport Collaborative Decision Making (A-CDM); Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004  - Ver. 1.1.1 - OJ 2010C168/04 / 06/2010  Url : <a href="https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf">https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</a></p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017  Url : <a href="https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF">https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</a></p>		
<b>ATM Master Plan relationship:</b>	<a href="#">[PRO-214a]-Airport CDM Procedures for pre-departure sequencing</a>		
<b>Finalisation criteria:</b>	1 - NM systems have been updated. 2 - Procedures have been defined to support the exchange of messages (FUMs and DPIs) between NM and airports .		