

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

Essential Operational Changes

Airport and TMA performance

SESAR Solution**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 -

European Plan for Aviation Safety

- none -

Operating Environments

Airport
En-Route
Network
Terminal Airspace

Stakeholder Lines of Action (SLoAs)

SloA ref.	Title	From	By
AOP05-ASP01	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
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	01/01/2004	01/01/2021
AOP05-ASP03	Define and implement local procedures for turnaround processes in accordance with CDM manual guidelines	01/01/2004	01/01/2021
AOP05-ASP04	Continually review and measure airport performance in accordance with Airport CDM Manual guidelines	01/01/2004	01/01/2021
AOP05-ASP05	Define and implement variable taxi-time and predeparture sequencing procedure (i. e. initial DMAN) according to airport CDM Manual guidelines	DELETED	
AOP05-ASP06	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
AOP05-APO01	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
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	01/01/2004	01/01/2021
AOP05-APO03	Define and implement local procedures for turnaround processes in accordance with CDM manual guidelines (baseline CDM)	01/01/2004	01/01/2021
AOP05-APO04	Continually review and measure airport performance in accordance with Airport CDM Manual guidelines	01/01/2004	01/01/2021
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	01/03/2005	01/01/2021
AOP05-APO06	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
AOP05-USE01	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
AOP05-USE02	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

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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 @ https://www.eatmportal.eu/working/depl/essip_objectives

Expected Performance Benefits

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

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
Action by:	ANS Providers		
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):	<p>EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports</p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</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 : https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01_01_01_30/en_303212v010101v.pdf</p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</p>		
Finalisation criteria:	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
Action by:	ANS Providers		
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):	<p>EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports</p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</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 : https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01_01_01_30/en_303212v010101v.pdf</p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</p>		

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ATM Master Plan relationship:	[AIRPORT-31]-Airport CDM (levels 1, 2 & 3)		
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):	<p>EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports</p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</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 : https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01_01_01_30/en_303212v010101v.pdf</p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</p>		
ATM Master Plan relationship:	[PRO-213a]-CDM information sharing Airport Procedures for turn-around		
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):	<p>EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports</p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</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 : https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01_01_01_30/en_303212v010101v.pdf</p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</p>		
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.		

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Supporting material(s):	<p>EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports</p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</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 : https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01_01_01_30/en_303212v010101v.pdf</p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</p>		
ATM Master Plan relationship:	<p>[PRO-073]-Airport Procedures to maximise throughput of de-icing stands [PRO-204b]-Collaborative Procedures (ATC) for improving Airport Operations in Adverse Conditions</p>		
Finalisation criteria:	<p>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.</p>		
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):	<p>EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports</p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</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 : https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01_01_01_30/en_303212v010101v.pdf</p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</p>		
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):	<p>EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports</p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</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 : https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01_01_01_30/en_303212v010101v.pdf</p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</p>		
ATM Master Plan relationship:	[AIRPORT-31]-Airport CDM (levels 1, 2 & 3)		
Finalisation criteria:	<p>1 - LoA or MoU between the A-CDM Partners has been agreed. 2 - Information sharing has been implemented.</p>		

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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 : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports</p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</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 : https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</p>		
ATM Master Plan relationship:	[PRO-213a]-CDM information sharing Airport Procedures for turn-around		
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 : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports</p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</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 : https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</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 : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports</p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</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 : https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</p>		

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ATM Master Plan relationship:	[PRO-214a]-Airport CDM Procedures for pre-departure sequencing		
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	Define and implement procedures for CDM in adverse conditions including the de-icing according to airport CDM Manual guidelines	From: 01/06/2006	By: 01/01/2021
Action by:	Airport Operators		
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 : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports</p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</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 : https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</p>		
ATM Master Plan relationship:	[PRO-073]-Airport Procedures to maximise throughput of de-icing stands [PRO-204a]-Collaborative Procedures (Airport) for improving Airport Operations in Adverse Conditions		
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	Define and agree performance objectives and KPIs at local level, specific to aircraft operators, in accordance with A-CDM Manual guidelines	From: 01/01/2004	By: 01/01/2021
Action by:	Airspace Users		
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 : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports</p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</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 : https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</p>		
Finalisation criteria:	1 - List of performance objectives and KPIs have been agreed with ANSP and AO.		
AOP05-USE02	Define and implement local aircraft operators procedures for information sharing through LoAs and/or MoU in accordance with A-CDM manual guidelines	From: 01/01/2004	By: 01/01/2021
Action by:	Airspace Users		
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.		

AOP05	Airport Collaborative Decision Making (A-CDM)
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Supporting material(s):	<p>EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports</p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</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 : https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</p>		
ATM Master Plan relationship:	[AIRPORT-31]-Airport CDM (levels 1, 2 & 3)		
Finalisation criteria:	1 - LoA or MoU between the A-CDM partners has been agreed.		
AOP05-USE03	Define and implement local procedures for turnaround processes in accordance with A-CDM manual guidelines	From: 01/01/2004	By: 01/01/2021
Action by:	Airspace Users		
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 : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports</p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</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 : https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</p>		
ATM Master Plan relationship:	[PRO-213b]-CDM information sharing Airline Procedures for turn-around		
Finalisation criteria:	1 - LoA or MoU between the A-CDM partners has been agreed.		
AOP05-USE04	Continually review and measure airport performance in accordance with Airport CDM Manual guidelines	From: 01/01/2004	By: 01/01/2021
Action by:	Airspace Users		
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 : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/</p> <p>EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports</p> <p>EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member</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 : https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf</p> <p>EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF</p>		
Finalisation criteria:	1 - Results/benefits at airport have been published.		
AOP05-USE05	Define and implement procedures for CDM in adverse conditions including the de-icing according to A-CDM Manual guidelines	From: 01/01/2012	By: 01/01/2021
Action by:	Airspace Users		

AOP05	Airport Collaborative Decision Making (A-CDM)		
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):	EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/ EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member 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 : https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF		
ATM Master Plan relationship:	[PRO-204c]-Collaborative Procedures (Airlines) for improving Airport Operations in Adverse Conditions		
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-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	From: 01/03/2005	By: 01/01/2021
Action by:	NM		
Description & purpose:	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.		
Supporting material(s):	EUROCAE - ED-145 - Airport-CDM Interface Specification 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-145/ EUROCAE - ED-146 - Guidelines for Test and Validation Related to Airport CDM Interoperability 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports EUROCAE - ED-141 - Minimum Technical Specifications for Airport Collaborative Decision Making (Airport-CDM) Systems 10/2008 Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-141/#non-member 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 : https://www.etsi.org/deliver/etsi_en/303200_303299/303212/01.01.01_30/en_303212v010101v.pdf EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 Url : https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF		
ATM Master Plan relationship:	[PRO-214a]-Airport CDM Procedures for pre-departure sequencing		
Finalisation criteria:	1 - NM systems have been updated. 2 - Procedures have been defined to support the exchange of messages (FUMs and DPis) between NM and airports .		