



Airport Collaborative Decision Making (A-CDM) Information Sharing – AOS Leaflet #5 – November 2016

Introduction:

A-CDM is a concept that promotes effective collaboration between partners, using improved quality of information and more timely exchange of information, which is interpreted in exactly the same way by all partners. A-CDM brings substantial benefits to all partners by improving the quality of information on which decisions are made. This will lead to enhanced operational efficiency and facilitate optimum use of available capacity. More efficient use of resources, and improved event punctuality as well as predictability are the targeted results. Timely shared information is paramount to enable each partner to react early enough to update their milestones in real-time.

Dublin Airport will use their existing IT systems for A-CDM information sharing; that is, Airport Operation System (AOS). AOS will primarily display:

- → Accurate arrival information through Flight Update Messages (FUM) from Network Manager Operations Centre (NMOC).
- → Various interfaces to & from airlines, handling agents and IAA.
- → Target Off-Block Time (TOBT), which will be input & maintained by the airlines or handling agents and forwarded onto ATC Dublin.
- → Target Start Up Approval Time (TSAT), calculated by ATC Dublin via the Pre-Departure Sequencer (PDS).

	Flight Details			A-CDM									BT Maintenance				TSAT			Visual
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BBD6810	BBD6810	TFBBJ	73P	SEQ	SEQ	0545				HOLD		28				0540	0540	0550	45	
SRR6528	SRR6528	OYSRG	76X	SEQ	SEQ	0540				HOLD		28				0540	0540	0550	40	10000000
AF1017	AFR1017		AR8	DEP	DEP	0600		0552	0611	HOLD	HOLD	28	0540	0552	0616	0600		0602	35	00000000
EI262	EIN262	EEZV	320	DEP	DEP	0640		0632	0701	HOLD	HOLD	28	0605	0632		0640		0642	35	
FR4282	RYR:	oical Alerts	73H	DEP	SEQ	0925	1		0949	HOLD	HOLD	28	0905	1		0925	0925	0935	25	00000000
EI158	Typ.		320	DEP	SEQ	0950			0952	HOLD	HOLD	28	0915			0950	0950	1000	35	00000000
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FR114	RYRS Info																×	122	25	00000000
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FR816 FR8511 FR562 FR5322 FR7116 FR7128 FR7126 El172	RYRE RYRE RYRE RYRE RYR955N RYR73HD RYR73HD RYR7128 RYR32KR EN172 DLH2515	Check outbound flight NOTE: EOBT AND TO EEKE EEKP EDHR EEMH EDVL	73H 73H 73H 73H 73H 73H	DEP	DEP SEQ SEQ SEQ DEP	1350 1405 1405 1410 1520		ROCESS WII	Ok 1401 1421 1413 1415 1535	HOLD HOLD HOLD HOLD	HOLD HOLD HOLD HOLD	28 28 28 28 28	1330 1345 1345 1350 1445	1342	NTIL DISCRI	1350 1405 1405 1410 1520	1405 1405 1410 1520	248 342 400 1352 1415 1415 1420 1530	25 25 25 25 25 25 25 25 25 25 25 35	

Image: Extract from Airport Operation System (AOS) test environment (subject to change)

Alerts:

Alerting is an important result of information sharing and information processing. Once new information is entered in the AOS system, it must be validated so that the value of the new information is compliant with tolerances and limits. Alerts will be automatically generated within the AOS system and issued to users for resolution should an inconsistency be detected. An example of this would be were the turnaround time of the aircraft goes below the Minimum Turn-round Time (MTTT) declared by the airline. In this case you would receive an alert to amend the arrival / departure times so the flight turnaround complies with the MTTT declared.

Swapping Flights:

After a TSAT has been calculated and published, it may be possible to swap the sequence ordering of two flights under very strict conditions. Swapping of flights may be facilitated provided the flights are of similar type, same operator, similar location, etc. An example of this would be, when a flight has to meet a curfew at an airfield but a TSAT will not facilitate this. An airline may request that this flight be swapped with another flight of the same airline to allow the aircraft reach its destination airfield before the curfew). The final decision on swapping flights will rest with the ATC Station Manager. It is not envisaged that swapping flights will be used on a regular basis.

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Webpage: https://www.dublinairport.com/regulation-and-planning/regulatory/airport-cdm

EUROCONTROL website: http://www.euro-cdm.org/