

Airport Collaborative Decision Making (A-CDM)

Data exchange with the Network Manager Operations Centre (NMOC)

Leaflet #4 – September 2016

Introduction:

The Collaborative Management of Flight Updates Element consists of exchanging Flight Update Messages (FUM) and Departure Planning Information (DPI) messages between the Network Operations and a CDM Airport, to provide estimates for arriving flights to CDM Airports and improve the Air Traffic Flow Management (ATFM) slot management process for departing flights.

The aim is to improve the coordination between Air Traffic Flow and Capacity Management (ATFCM) and airport operations at a CDM Airport. Due to the fully automated data exchange with the Network Manager Operations Centre (NMOC), landing and take-off times (via DPI's) can be forecasted in a timely and reliable manner.

Purpose of a DPI message:

Is to make the NMOC and its partners (i.e. ATC units, Aircraft Operators, Airports of destination, etc.) aware of the situation of a given flight in respect of the pre-departure phase, in particular with regard to the Take Off Time through an automatic generated message. The NMOC (previously called Central Flow Management Unit (CFMU)), determines and allocates the Calculated Take Off Time (CTOT) on the basis of these estimated departure times, i.e. DPI's.

Different types of DPI messages:

There are five types of DPI messages:

DPI Type:	Description:	Notes:
E-DPI	Early DPI (Sent @ EOBT (-) 3Hrs)	First DPI message that is sent from Dublin Airport to the NMOC notifying the Estimated Take Off Time (ETOT).
T-DPI-t	Target DPI target (Sent @ EOBT (-) 2Hrs)	This DPI message is sent from Dublin Airport to the NMOC, providing a provisional TOBT, calculated by the system, not yet acknowledged by the Aircraft Operator (or their agent).
T-DPI-s	Target DPI sequence (Sent @ TOBT (-)40Mins)	This DPI message is sent from Dublin Airport to the NMOC when; (a). For Regulated flights; once a TSAT is generated. (b) For Non regulated flights; following any changes to TTOT, SID etc.
A-DPI	ATC DPI (Sent @ AOBT)	DPI message sent from Dublin Airport to the NMOC notifying them of the TTOT, between ATC time of pre-departure sequencing and Actual Take off Time (ATOT).
C-DPI	Cancel DPI	This message informs the NMOC that a previously sent DPI is no longer valid.



Purpose of a FUM:

Is to make the NMOC aware of the situation of a given flight, in particular regarding the Estimated Landing Time (ELDT), through an automatic generated message. An initial FUM will be used to supply Dublin Airport with an Estimated Landing Time (ELDT) for an arrival flight. In addition to the ELDT, the FUM will contain the Star Entry Point (SEP) or the last point in the flight plan route with the corresponding Estimated Time Over (ETO).

FUM's will be sent in the following circumstances:

- (a) Estimated Landing Time (ELDT) minus 3 hours (at the earliest),
- (b) Adjustment of the ELDT by 5 minutes or more,
- (c) At important changes of the status of the flight in Enhanced Tactical Flow Management System (ETFMS), i.e. when the flight is reported as diverted, slot is cancelled, when the flight status changes to regulated, etc.

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

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