

A-CDM Milestones – Airport view

A-CDM Elements



Collaborative Management of Flight Updates

Variable Taxi
Time
Calculation

Collaborative Pre-Departure Sequencing

CDM in Adverse Conditions

Milestone Approach

Airport CDM Information Sharing

Milestone Approach



Principle



Foundation for Airport CDM

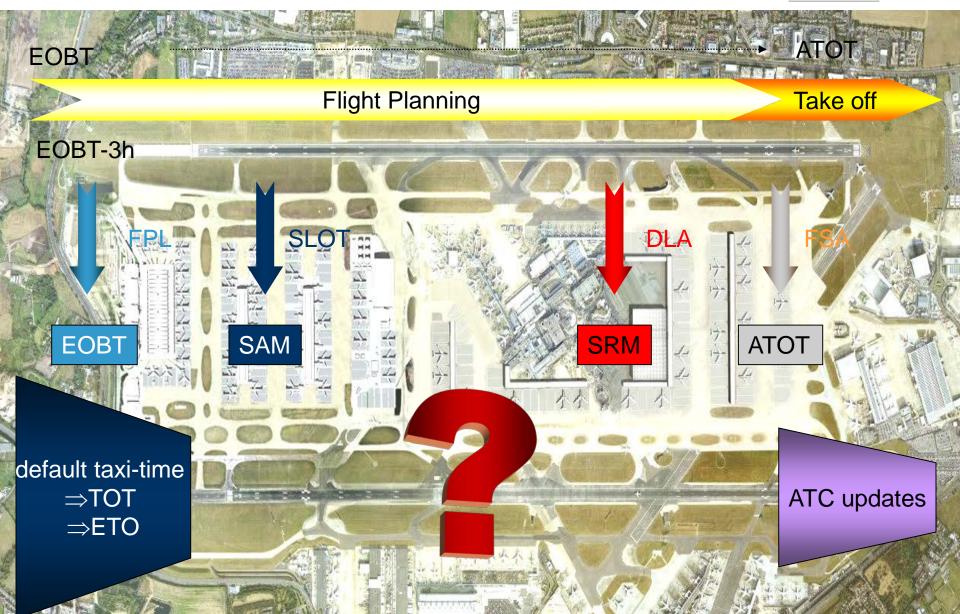
The **right** information

To the **right** people

At the **right** time

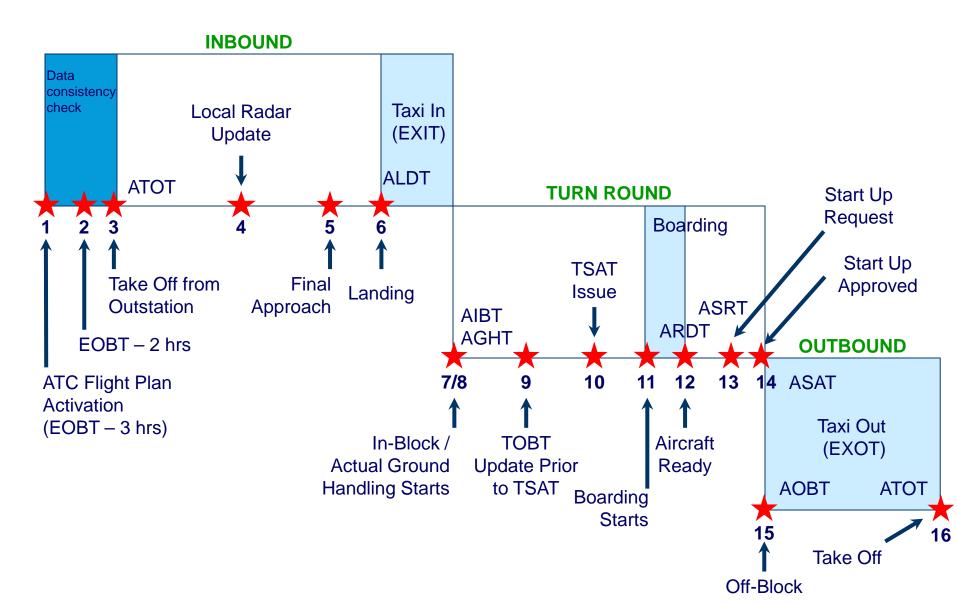
Non - CDM airport - Departure Planning





Airport CDM Generic Milestones





Milestone 1 - (EGLL EOBT 1950)





ELDT and EIBT updated for an arrival

EOBT and ETOT updated for a departure

1650hrs @ EOBT -3hrs

ATC Flight Plan activation

Check of FPL and Airport Slot

E-DPI is sent

May contain a TTOT if TOBT is already known

Note - this DPI message is also sent from an Advanced ATC Tower airport.

Milestone 2 - (EGLL EOBT 1950)





ETOT/TTOT/CTOT

Mark appropriate fields as

REGULATED

1750hrs @ EOBT -2hrs

Update of flight info + SIT1

CTOT = 2030

T-DPI-t can be sent at anytime after an E-DPI when TOBT is known [whether automatically or manually generated]

Milestone 3 - (EGLL EOBT 1950)





ELDT, EIBT, TOBT and TTOT updated

1800hrs

Take Off from Outstation

(ATOT – Munich FUM gives ELDT & ETO final route point)

Milestone 4 - (EGLL EOBT 1950)





ELDT, EIBT, TOBT and TTOT updated

1840hrs

Local Radar Update

More accurate than FUM [i.e. - can include holding]

Milestone 5 - (EGLL EOBT 1950)





ELDT, EIBT, TOBT and TTOT updated

Trigger for G/H services etc to attend stand/gate

1900hrs

Final Approach

Milestone 6 - (EGLL EOBT 1950)





ELDT changes to ALDT, EIBT, TOBT and TTOT updated

Updates to G/H & Stand & Gate Management – possible conflicts resolved

1905hrs

Landing

ALDT

EXIT 5 minutes = EIBT 1910

Milestone 7 - (EGLL EOBT 1950)





EIBT changes to AIBT

TOBT and TTOT updated

[if TOBT is auto calc the GH has 2 options –

1/ TOBT is good – do nothing

2/ Manual update TOBT]

1910hrs

In Block

AIBT

Milestone 8 - (EGLL EOBT 1950)





ETTT/TOBT, TTOT updated

- AGHT used if aircraft is long term parked

1910hrs

Ground Handling starts

AGHT

MTTT 50mins

Milestone 9 - (EGLL EOBT 1950)



Target OffBlock Time (TOBT)		
CX 064 - 752SA		
SOBT: 08:55 EOBT: 08:55 CTOT:		
TOBT:	TSAT:	COM:
RMT: 9	RDY: 0	TXT: 9 DCT: 0
All Times in UTC !!! TOBT (date): 0206 TOBT (time): Remote Holding: □ Ok Delete TOBT New Search		

Process is triggered by – a TOBT update.

There is no need to confirm an existing TOBT if it has been manually modified before.

1930hrs

Target Off-Block Time

TOBT Update before TSAT

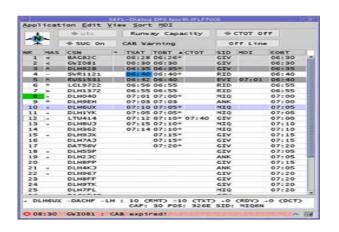
(TOBT=2000hrs)

This process is constantly applicable in the CDM Platform as soon as a TOBT is available.

The confirmed TOBT prior to TSAT has a special status, where AO/GH check the quality of TOBT before TSAT issue.

Milestone 10 - (EGLL EOBT 1950)





To inform all relevant partners that a TSAT that has been allocated to the flight.

Also a check whether the number of TOBT updates exceeds a tolerance defined locally, after TSAT has been issued

1940hrs

Target Start up time issue

(TSAT=2011hrs)

T-DPI-s is sent for non regulated flights

Also the first point where a REA T-DPI-s can be seen [T-DPI-s which shows TTOT before the STW.

Milestone 11 - (EGLL EOBT 1950)





Informs all relevant Airport CDM Partners of Actual Start Boarding Time (ASBT).

It also acts as a check whether boarding starts in time to respect TOBT and inform the AO/GH in case TOBT needs to be updated.

1940hrs

Boarding starts

<u>Milestone 12 - (EGLL EOBT 1950)</u>





Informs Partners of Actual Ready Time (ARDT) - that the aircraft is ready for start up / push-back.

TOBT updates normally end unless there is a last minute / on-board technical fault.

1958hrs

Aircraft Ready

ARDT

(Doors closed ready to move)

Milestone 13 - (EGLL EOBT 1950)





Inform when ASRT occurs. If the start up request is not made by TSAT + 5mins then TSAT and/or TOBT are removed.

The AO/GH is informed that no start up has been requested and they must update TOBT.

2010hrs

Start up Clearance request

ASRT

T-DPI-s sent for regulated flights,

From 10mins prior to TSAT this allows for possible last minute CTOT improvements.

Milestone 14 - (EGLL EOBT 1950)





Aircraft has received start up approval / push-back clearance.

Check if ASAT is in accordance to TSAT & alert when no start up has been granted. The flight will be re-sequenced.

2011hrs

Start up approved

ASAT

(ATC issue push back clearance)

A-DPI may be sent,

e.g on action in EFPS [pending to active]

Note - this DPI message is also sent from an Advanced ATC Tower airport.

Milestone 15 - (EGLL EOBT 1950)





2012hrs

Actual Off-Block Time

AOBT

(EXOT = 18 minutes)

A-DPI may be sent,

e.g when the actual off-block event is detected through either ASMGCS or manual intervention.

Milestone 16 - (EGLL EOBT 1950)





An airborne message is generated and the flight is removed from the departure sequence.

This process is triggered by Tower FDPS, A-SMGCS / Radar detection or ACARS.

2030hrs

Actual Take Off Time

ATOT

(CTOT = 2030)

FSA is sent

General considerations – DPI's



C-DPI can be sent at any point until ATOT data [e.g FSA] is received.

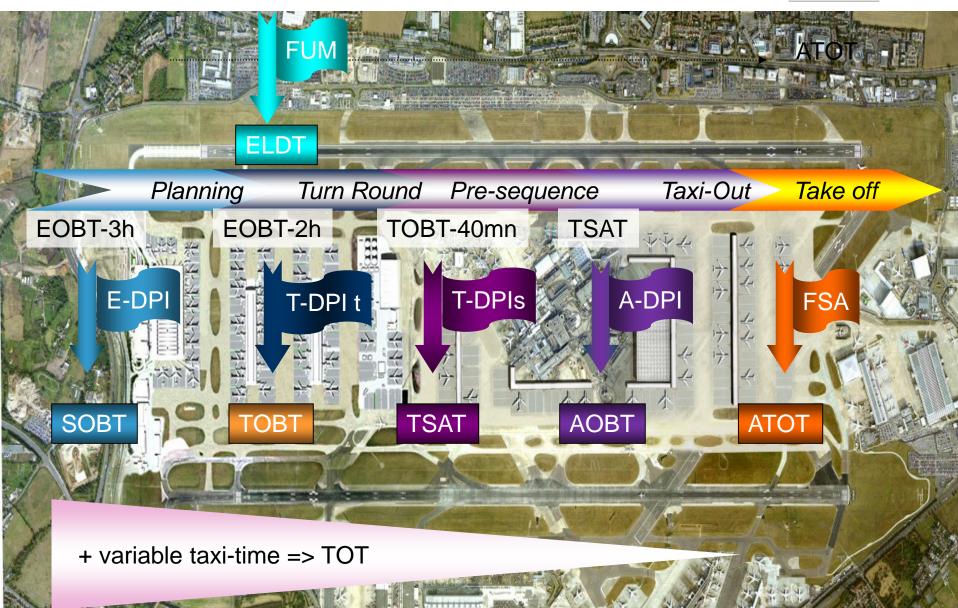
The effect is to suspend the flight – it does not cancel it.

No DPI's are accepted after ATOT data [e.g FSA] received.

<u>System to System</u> messages but can be erroneously generated – e.g Wrong flight moved in EFPS moving from pending to active list, moving back will generate a C-DPI.

Complete – departure planning information







Thank you

