2nd Airport-CDM@FRA Forum















"Definition and partners"

Airport CDM is an operational overall process (concept/procedure) supporting an optimized turnround process at an airport. It is the basis for the connection to the European ATM network.

ATC Tower

Air Traffic Flow Management (CFMU)



All airlines und ground handling agents

Airports
Apron Control
Airport Traffic
Ops Centre

Airport CDM is one operational process





- Airports are becoming the "bottleneck" in the European ATM-System
- Operational processes at airports require optimal adjustment between all partners involved
- Airport Slots / Airport Schedule are currently not consistently respected
- ATFM Slots (CTOT) are often not respected
- The "first come first served" principle no longer applies
- · Airline preferences and priorities are not always taken into account
- No unitary European procedure exists harmonisation
- No connection to the European ATM-System





"Essential A-CDM contents 1"

<u>Transparency + Information Sharing</u>

"Common situational awareness for all partners has to be assured"



"Essential A-CDM contents 2"

Airport CDM is one operational process

"ATC flight planning / landing / turn-round / take off"

ATC Flight planning EOBT-3h

Landing of connected Inbound-Flight Turnround (Pax/Cargo/Fuel/....)

Take Off
(Sequencing/Off-Block/...)

Airport CDM process from EOBT-3h (Dep) till Take Off

Airport CDM partner
Information Sharing / Common Situational Awareness / Procedures





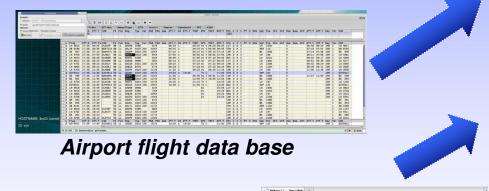
"Essential A-CDM contents 3"

Link day of operation with schedule planning

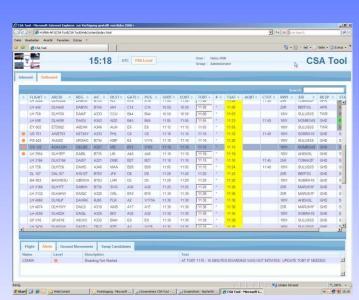
"Comparison and correlation of ATC-flight plan, Airport Slot and Airport flight data"



ATC flight plans







CSA-(Common Situational Awareness) Tool

Coordinated Airport Slot





"Essential A-CDM contents 5"

TOBT = Airline commitment

"Introduction of Target Off Block Time (TOBT) as an estimate of "Aircraft Ready"

Impact on TOBT calculation:



Fueling



Cockpit



Ground Handling



Dispatch





Technical problems



Pax / Gate / Terminal

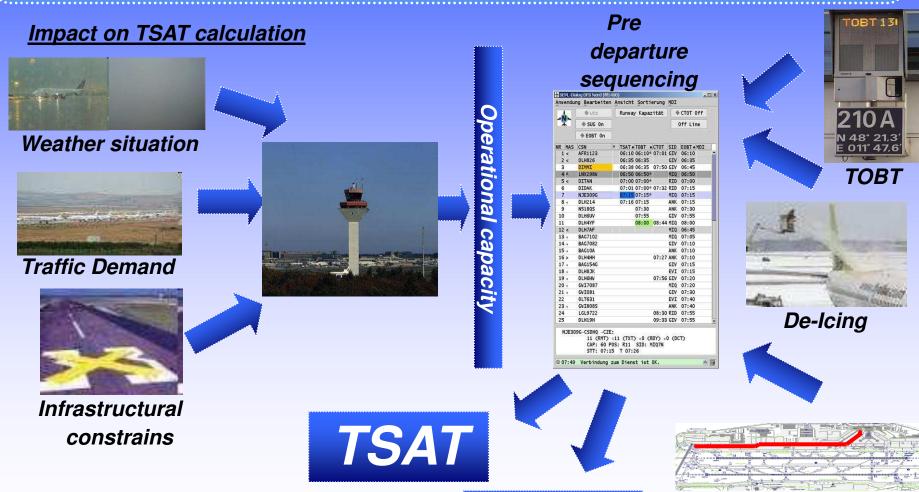


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TSAT = Airport CDM commitment

"Introduction of Target Start Up Approval Time based on TOBT, EXOT, CTOT and real operational capacity as driver for the "Pre Departure Sequence"





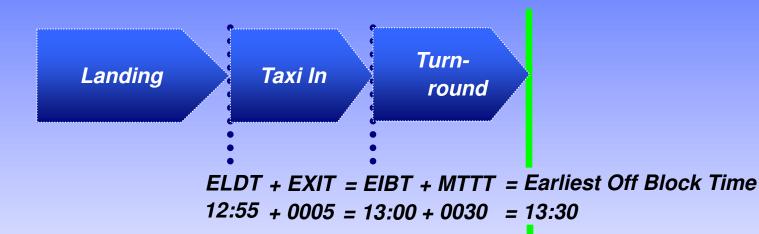




"Essential A-CDM contents 4"

Feasibility of flight turnround

"Permanent matching and correlation of related In- and Outbound flight times and data"



DLH1AB/LH123 CDM07a 1002171200UTC MUC/EDDM EIBT 1300 OF INBO

EIBT 1300 OF INBOUND DLH1AX/LH122 + MTTT 0030 IS NOT CONSISTENT WITH OUTBOUND ATC FLIGHT PLAN TOBT 1300.

CHECK OUTBOUND FLIGHT AND TOBT AND UPDATE IF REQUIRED.

NOTE: THIS IS AN ADVISORY ALERT ONLY AND THIS FLIGHT REQUIRES MONITORING AS THE OUTBOUND FLIGHT MAYBE DELAYED.

A-CDM alerting

TOBT of Outbound flight
13:30 or later

TOBT of Outbound flight earlier than 13:30

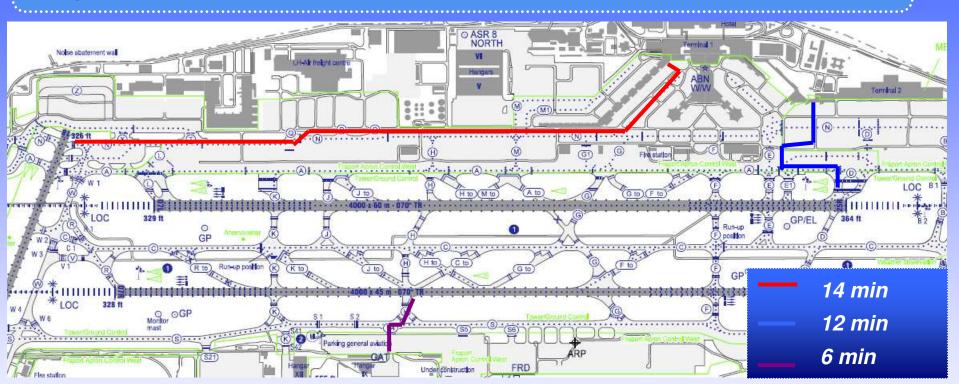




"Essential A-CDM contents 7"

Use of variable taxi times (VTT)

" Replaces CFMU Default Taxi Times"



CFMU "Default Taxi Time" 15 min

- = lack of take off prediction quality (TTOT)
- = non realistic CTOT for regulated flights

A-CDM VTT considers:

Parking position / day / hour / Rwy in Use

- = optimized Pre Dep Sequencing (TSAT)
- = High quality of Take Off predictability (TTOT)
- = realistic CTOT for regulated flights





Linking the airport into the network

"Reliable In- and Outbound estimated/target times through automated data exchange with ATFM (CFMU)"

ATFM Slot Adherence

Ghost flight plans

ATC Sector Demand

Outbound flight











Feasibility turnround

Gate and positioning

Ground Handling

Other resources







Is it a technical system?





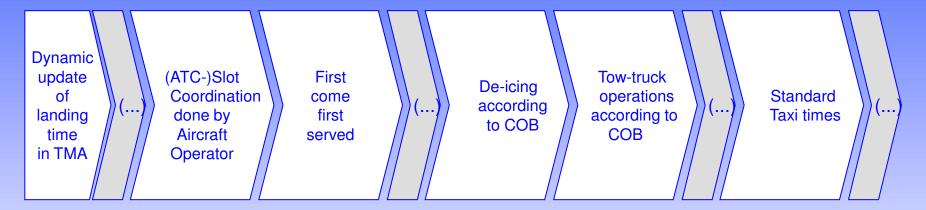
It is a philosophy:

- Act on shared information
- Transparency
- No blame culture

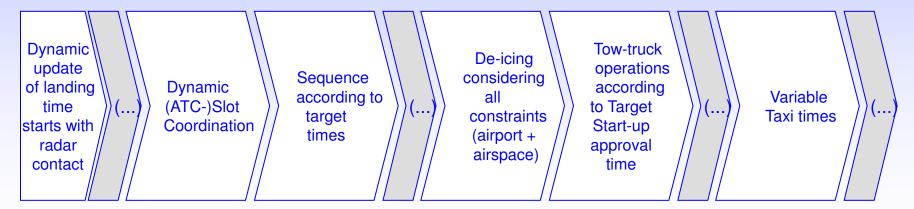




It is a set of procedures



Optimizing the turnround process







It is a European standard adapted for FRA

by operational people who are focused on optimizing the overall system:

FRA Tower

FRA Apron

FRA Airport traffic
Operations Center

CFMU





" What does A-CDM do for you?

- -It will offer the best information there is about your inbound flight
- -It will deliver precise information about when to expect start-up
- -It will give you transparency
 - -It will give easy access to information
 - -It will harmonise terminology





" What does A-CDM expect from you?



-To share relevant information with your partners



-To deliver the best information <u>you have</u> about the ready time of your outbound flight





Thank You for Your Attention



