Definition of A-CDM _ Airport Collaborative Decision Making

A-CDM is a process that allows air traffic controllers, airport operators, aircraft operators(AO), ground handlers(GH), and air traffic flow managers to exchange operational information and work together to efficiently manage operations at aerodrome.



Objective and Expected Outcome

Improve aircraft departure flow by sharing and managing the milestone information among partners.



Establish a collaborative process for flight information sharing

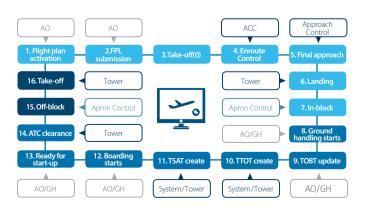


Implement A-CDM and **Target Departure** Time Management (TOBT, TSAT, TTOT)



Delay management & Improvement of airport operation efficiency

A-CDM Milestones and Process



Major Milestones

1. TOBT (Target Off-Block Time)

The time when an aircraft is expected to be fully ready to move immediately upon reception of push-back clearance from the Apron Control Tower.





Boarding Bridges removed



All Doors Closed





Pilot ready to depart

AO/GH input TOBT(Target Off Block Time)

- Target Confidence Level: +/- 5 mins
- If defers from EOBT for more than 15 mins, modify EOBT





Before TSAT issuance by Incheon Tower, Input/modify without limitation



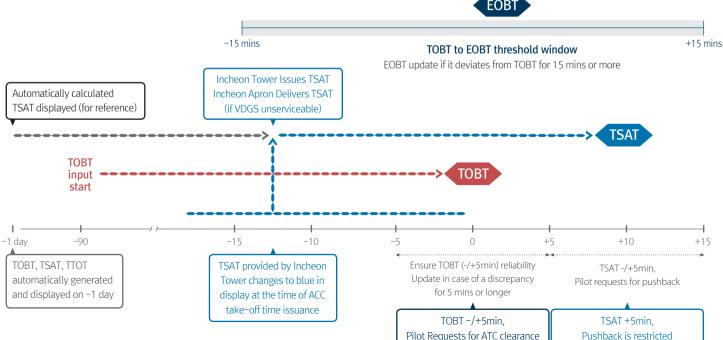
After TSAT issuance by Incheon Tower, Modification is restricted to 3 times or modify EOBT

Request to Apron Management Unit

TOBT & TSAT Flow Chart

Based on TOBT, Incheon Tower creates TSAT and TTOT considering ATFM, route, altitude, and ground traffic flow

EOBT



Major Milestones

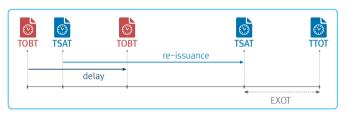
2. TSAT (Target Start-Up Approval Time)

The estimated time when Incheon Apron is expected to approve engine start-up and pushback for departure.

•System TSAT calculated by system based on TOBT

•Incheon Tower TSAT provided by ATC after TTOT agreement between ACC and TWR which is expressed in blue

•TSAT issue



3. TTOT (Target Take-Off Time)

The estimated time of take-off from the runway. Incheon Tower calculates TTOT, taking into account TOBT, CTOT, ATFM limitations, ground movement time, ATC separation and traffic conditions.

Q ∰	발편문항정	보관리															A-CD	M>DFS/DE/	1간관리>출발된
	55284	ATA ~ 종료편제의 전체	전체 v	jv		DATE SVC Tyl STATUS	oe 2	Н	21 :	O TIME O SEAR O RTE		v ~ [17							O Refresh
술발	편 운항현황															○ 현재시간	-	16:06:43	IAC-L
) Al	ert FLIGHT	REG	TYP	DEST		LKF	RWY		SVCType	RTE	STATUS	SOBT	ACGT	мттт	EOBT	товт		ттот	TSAT
€	ZX991		320	LAX	123	ZX998		J	PAX			44-00	00.00	02-00	44-00	44-00		11:07	11:02
	ZX777		320	LAX	128	ZX888	15L	J	PAX	A-0	CDM	pro	vide	d TI	ΌΤ/	TSAT	35	11:35	11:19
39	OZ985		76F	YNT	611			F	CGO	_		-			111000		_	11:07	11:02
	GA871		333	DPS	106		33L	J	PAX	G597-AG.	INI	11:05	08:45	02:20	11:05	11:05		11:24	11:07
9	VJ961		320	HAN	115	VJ960			0.00			****	42.00	00-40	44.05	44.00		11:12	11:07
	7C1602		738	NGO					Cont	rol T	owe	r pro	ovid	ed Ti	τοτ	TSA1		11:17	11:12
⋑	JL954		73H	NRT	10	JL959			FRA	_			00010	02.00		11210		11:17	11:12
9 (XJ701		333	DMK	107	XJ700		J	PAX		SCH	11:15			11:15	11:15		11:22	11:17
9	CZ340		321	HAK	105			J	PAX		INI	11:15	10:15	01:00	11:15	11:15		11:22	11:17
	VN431		321	DAD	132	VN430		J	PAX		INI	11:20	09:20	02:00	11:20	11:20		11:27	11:22

How to use A-CDM Portal

Access Incheon Airport A-CDM website(www.airport.kr/acdm) to create ID/PW ⇒ Integrated Information Team examines and approves the account

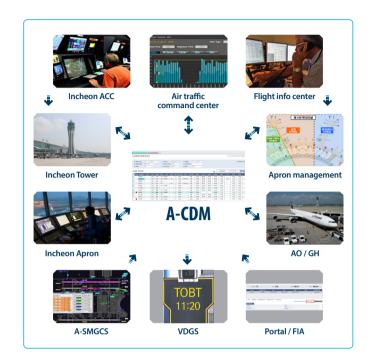
Via http://es.airport.kr:21782/ui/Install/installES.html
Install A-CDM Portal ⇒
is created in the background

Click the icon, Input ID/PW and OTP Log in ⇒ Start A-CDM Portal



A-CDM System

Information sharing and management by integrating systems of Air Traffic Services, Airport Operators. Aircraft Operators. Ground handlers, etc.



Role of A-CDM Partners

Parter	Main Role							
Air Traffic Command Center	- Provide ATFM situation and CTOT							
Incheon Tower	- Coordinate Take-off sequence considering TOBT, CTOT, ATFM, route, altitude, and traffic flow - Provide TTOT/TSAT if necessary(ATFM)							
Incheon Apron	- Control Pushback considering TTOT and TSAT - Share information of de-icing - Delivers TSAT(if VDGS unserviceable)							
Apron Management Unit	- Reflect EOBT change and TOBT after TSAT issuance							
Aircraft Operator	- Monitor and input TOBT - Request EOBT change if necessary							
Ground Handler	- Monitor Service Information and input TOBT							



Operational Process: +82-32-741-5647 (09:00-18:00)

System: +82-32-741-6320 (24 hrs)
Additional info: www.airport.kr/acdm





A-CDM

Airport Collaborative Decision Making





