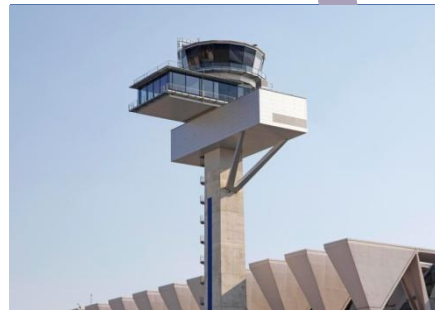


6. Airport CDM@FRA Forum 15. Oktober 2014



**Airport
CDM
@
FRA**



Winter Operations & Enteisierung







SQ025 to Singapur (SIN), Scheduled Off-Block Time (SOBT) 1235 local time



Overnight Stay

Cancellations

Delay

Adverse Conditions

Chaotic Situation

Severe Disruption





Prozessstreue = Prozessstabilität





1. Information Sharing
2. Planung der LFZ Enteisung
3. Durchführung der LFZ Enteisung
4. Flächenwinterdienst
5. Zusammenfassung



**Airport
CDM
@
FRA**



www.cdm.frankfurt-airport.com



N*ICE



Deicing

NMOC

Eurocontrol



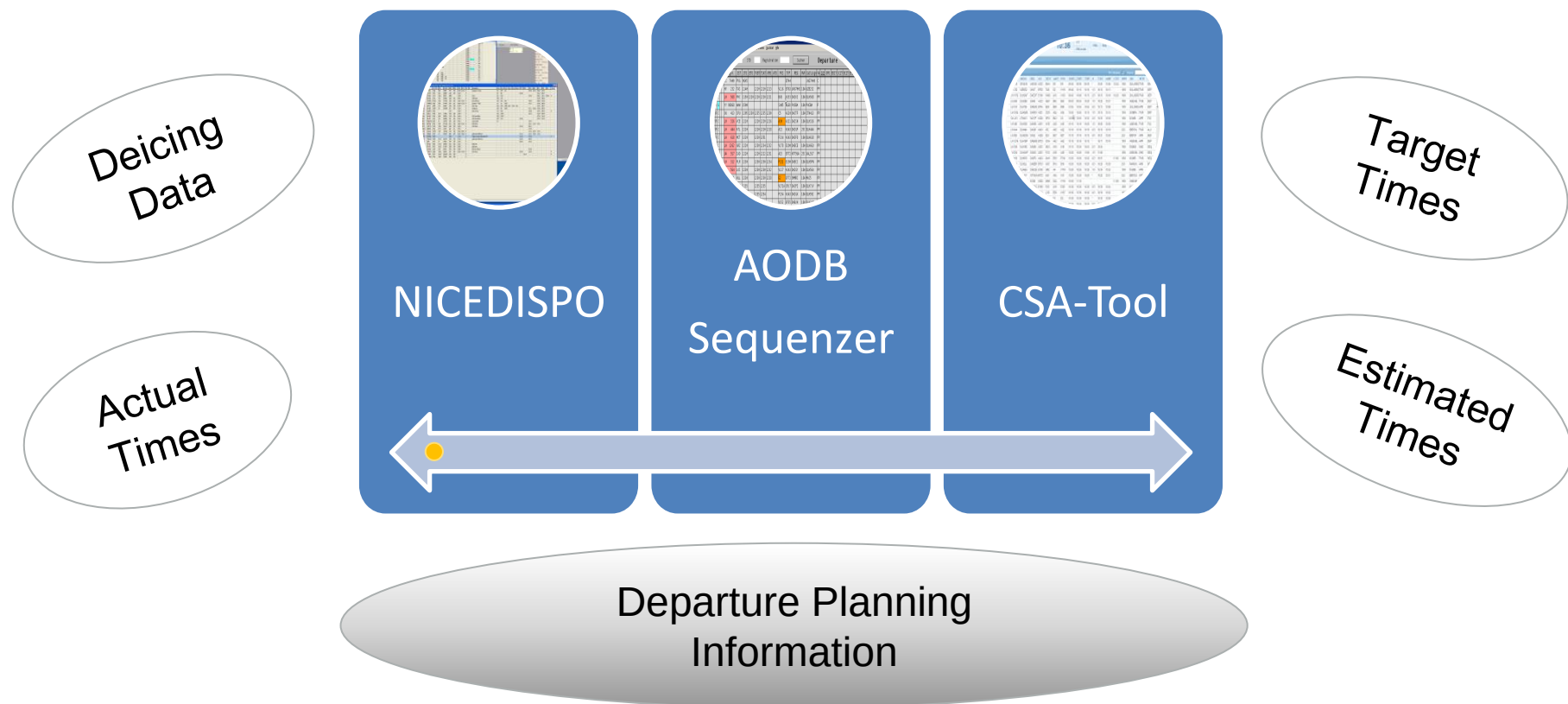
Airspace

A-CDM



Runway

Wintersaison 2014/ 2015





Airport CDM@FRA

6. Forum

„Information Sharing“

User : x3206015
Role : All Airlines (R)
Last update : 12:24:39
Status : OK

CAT :
RWY : 07/18

12:24

UTC FRA-Local

Hilfe
Help

CSA Tool



Inbound Outbound Airport-Information

Fit Columns: ☒ Search:

FLIGHT	ARCID	A/C	DEST	POS	EOBT	TOBT	TSAT ▲	AOBT	CTOT	ATOT	RWY	RESP	STATUS	DPI STATUS
OU 413	CTN413	A320	SPU	C2	12:05	12:05	12:05	12:09			18W	TWR	ALU	ADP
AF 1619	AFR1619	A318	CDG	V109	12:10	12:05	12:10	12:06			18W	TWR	TXG	ADP
LH 014	DLH8NE	A320	HAM	A13	12:00	12:10	12:10				07C	APR	RDY	SDP
LH 234	DLH234	A321	FCO	A38	12:10	12:10	12:10	12:19			18W	APR	PBG	ADP
NH 204	ANA204	B788	HND	B42	12:10	12:10	12:10	12:11			07C	APR	TXG	ADP
LH 104	DLH4RV	A319	MUC	A24	12:15	12:15	12:15	12:15			18W	TWR	TXG	ADP
LH 954	DLH954	A320	BHX	B20	12:15	12:15	12:15	12:19			07C	APR	PBG	ADP
SK 2636	SAS2636	B738	ARN	V107	12:15	12:15	12:15	12:20			07C	APR	PBG	ADP
LH 618	DLH618	A333	AUH	V166	12:20	12:20	12:20				18W	APR	ENB	SDP
LH 1356	DLH5UA	B733	KTW	V162	12:20	12:20	12:20				07C	APR	RDY	SDP
LH 1366	DLH2NX	B733	KRK	V178	12:20	12:20	12:20				07C	APR	RDY	SDP
LH 1396	DLH9WC	B733	PRG	A26	12:20	12:20	12:20				07C	APR	SUG	SDP
LH 1414	DLH9FT	A320	ZAG	V155	12:20	12:20	12:20				18W	APR	SUG	SDP
IR 720	IRA720	A306	BEG	B43	12:20	12:25	12:25	12:22			18W	APR	PBG	ADP
LH 326	DLH326	A321	VCE	B10	12:25	12:25	12:25				18W	GHD	SEQ	SDP





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LH 014	DLH8NE	A320	HAM	A13	12:00	12:10	12:10				07C	APR	RDY	SDP
LH 234	DLH234	A321											PBG	ADP
NH 204	ANA204	B788											TXG	ADP
LH 104	DLH4RV	A319											TXG	ADP
LH 954	DLH954	A320											PBG	ADP
SK 2636	SAS2636	B738											PBG	ADP
LH 618	DLH618	A333											ENB	SDP
LH 1356	DLH5UA	B733											RDY	SDP
LH 1366	DLH2NX	B733											RDY	SDP
LH 1396	DLH9WC	B733											SUG	SDP
LH 1414	DLH9FT	A320											SUG	SDP
IR 720	IRA720	A306											PBG	ADP
LH 326	DLH326	A321											SEQ	SDP

Outbound attribute selection

- | | | | |
|---|--|---|--|
| ☒ alert | ☒ FLIGHT | ☒ ARCID | ☒ REG |
| ☒ A/C | ☒ DEST | ☒ GATE | ☒ POS |
| ☒ SOBT | ☒ EOBT | ☒ TOBT | ☒ # |
| ☒ TSAT | ☒ AOBT | ☒ CTOT | ☒ ATOT |
| ☒ RWY | ☒ SID | ☒ RESP | ☒ STATUS |
| ☐ NIGHTBAN | ☐ ADES | ☐ DPI STATUS | ☐ ICE |
| ☐ DPD | ☐ ECZT | ☐ EEZT | ☐ ACZT |
| ☐ AEZT | ☐ ASBT | ☒ EXOT | ☐ ALARM |
| ☐ ALARM DETAILS | | | |

Close

Deselect All

Select All

Deselect Deicing

Select Deicing





Airport CDM@FRA

6. Forum

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RWY : 07/18

12:27

UTC

FRA-Local

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Inbound Outbound Airport-Information

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LH 252	DLH3MT	A321	MXP	F223	12:25	12:40	12:40				18W	GHD	BGB						
LH 284	DLH3EV	B733	BLQ	F225	12:40	12:40	12:40		12:53		18W	GHD	BGB						
LH 422	DLH422	B744	BOS	A50	12:40	12:40	12:40				07C		SEQ						
LH 1204	DLH7LA	E190	BSL	V266	12:40	12:40	12:40				18W	GHD	BGB						
TU 745	TAR745	A320	TUN	C5	12:20	12:42	12:42				18W	GHD	RDY						
LH 144	DLH144	B735	NUE	V112	12:45	12:45	12:45				07C	GHD	BGB						
LH 184	DLH3RL	A321	TXL	A11	12:45	12:45	12:45				07C	GHD	SEQ						
SQ 025	SIA25	A388	SIN	B46	12:35	12:35	12:45		13:05		18W	TWR	SUR						
UA 906	UAL906	B744	ORD	V167	12:45	12:45	12:45				07C	GHD	SEQ						
DE 4403T	CFG4403	B763	MXP	H4	12:00	12:50	12:50				18W		SEQ						
LG 9304	LGL9304	DH8D	LUX	V113	12:50	12:50	12:50				18W	GHD	BGB						
LH 882	DLH882	A321	TLL	A36	12:50	12:50	12:50				07C	GHD	SEQ						
LH 1262	DLH04C	E190	GRZ	V268	12:20	12:40	12:50		13:02		18W	GHD	MOT						
LH 1372	DLH5LF	B735	WRO	F221	12:45	12:50	12:50				07C	GHD	SEQ						
OS 130	AUA130A	A319	VIE	A40	12:50	12:50	12:50				07C	GHD	SEQ						

SQ025 to Singapur (SIN), TOBT 1235 / TSAT 1245, CTOT 1305 local time





58 Fahrzeuge:

5 Vestergaard Elephant MY

10 Vestergaard Elephant Gamma

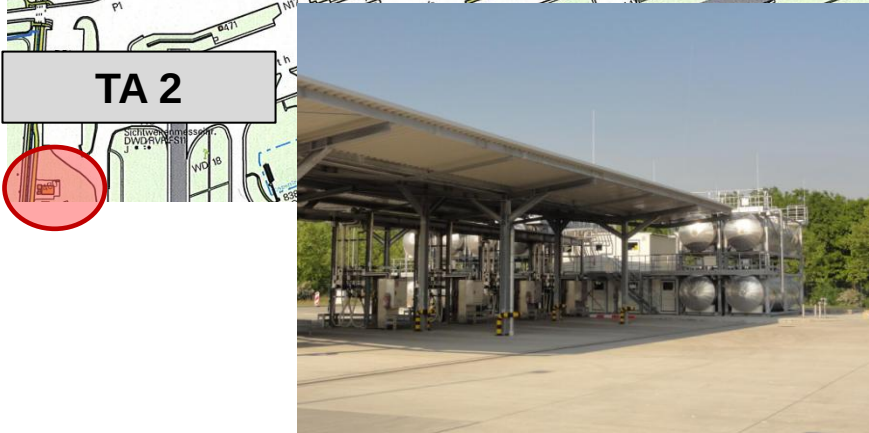
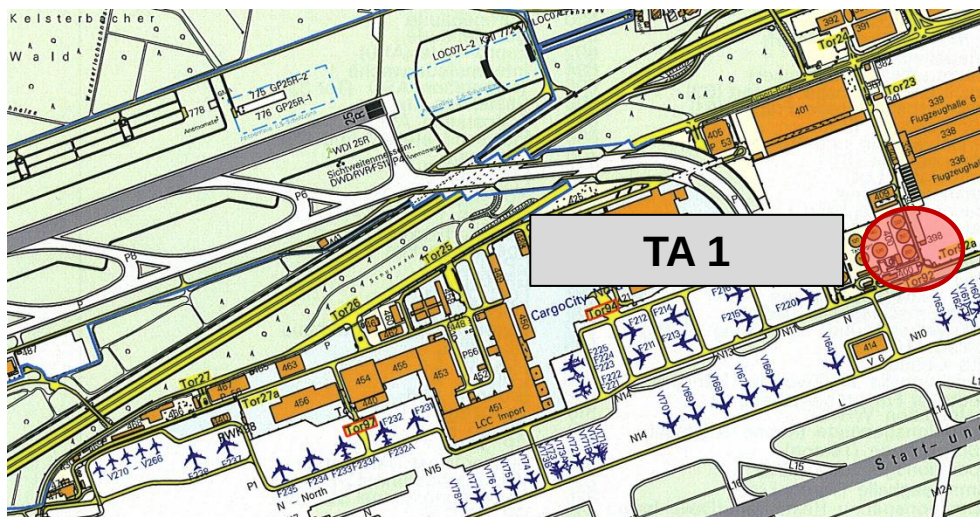
33 Vestergaard Elephant Beta

10 Vestergaard Elephant Beta 15





1,1 Mio Liter Fluid am Platz (800 TL)





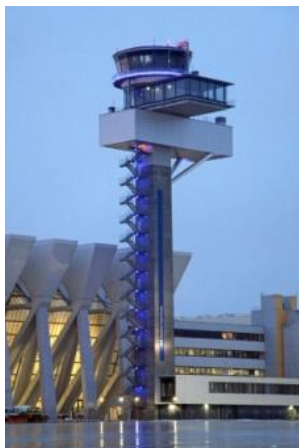
CTOT

EDIT

erwartete
Enteisungsdauer

ICE = P, R

Enteisungsort



operationelle
Abflugkapazität



TOBT



ICE = E

Zeitpunkt der
Enteisungsanfrage



Airport CDM@FRA

„Planung der Enteisung“



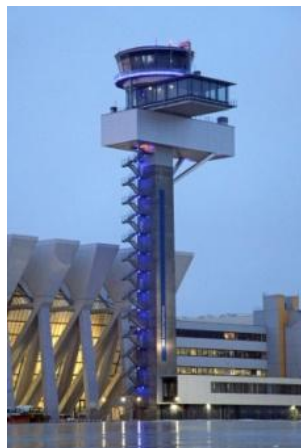
CTOT

EDIT

erwartete
Enteisungsdauer

ICE = P, R

Enteisungsort



operationelle
Abflugkapazität



TOBT

Runway: 18W 25/07			Aktuelle Zeit: 12:45:33 utc							Berechnungshorizont: 12:40 - 1					
			Letzte Berechnung: 12:45:16 utc							Flüge in der Planung: 28					
										Flüge fixiert: 11					
Livensicht			Historie			Status									
	Intervall	Kap.	Dem. Outb.	Flugnummer	Callign	SID	Flugzeug	Position	TSAT	TOBT	E:OT	Ref Time	STOT	CTOT	A:CDM
	12:40 - 12:50	4	7	LH 450	DLH450	BBTOM	B744	A23	12:25	12:05	15	12:20	12:40		DEF
				LH 628	DLH628	BARONDM	B735	A30	12:24	12:05	16	12:21	12:40		DEF
				LH 454	DLH454	BBTOM	A346	A08	12:19	12:05	21	12:20	12:40		ALU
				LH 498	DLH498	BBTOM	B748	B28	12:24	12:10	16	12:20	12:40		DEF
				LH 736	DLH736	TORGOM	A343	A50		12:10	21	12:31			TGZ
				EOL 064V	EOL064V	BBTOM	BE20	S410	12:40	08	12:40				MOT
				LH 542	DLH542	BBTOM	A346	C16	12:30	16	12:40				PBG

Pre-Departure
Sequenzier

ICE = E

Zeitpunkt der
Enteisungsanfrage

TSAT / TTOT

ECZT



Disposition
N*ICE

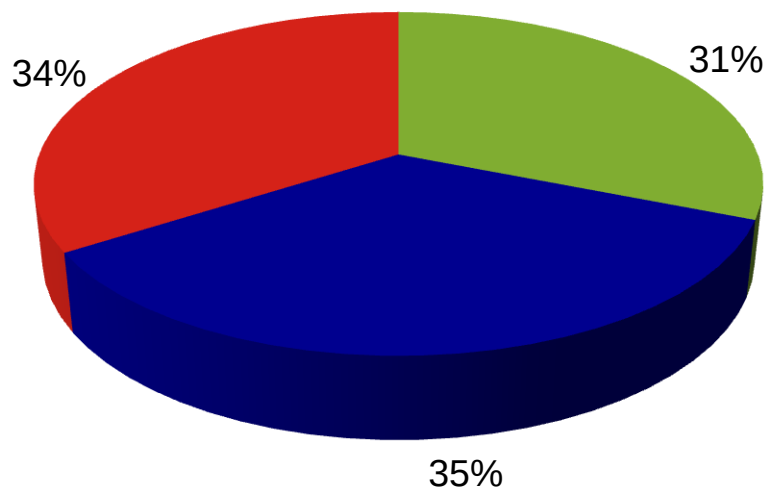
ECZT

erwarteter
Enteisungsbeginn

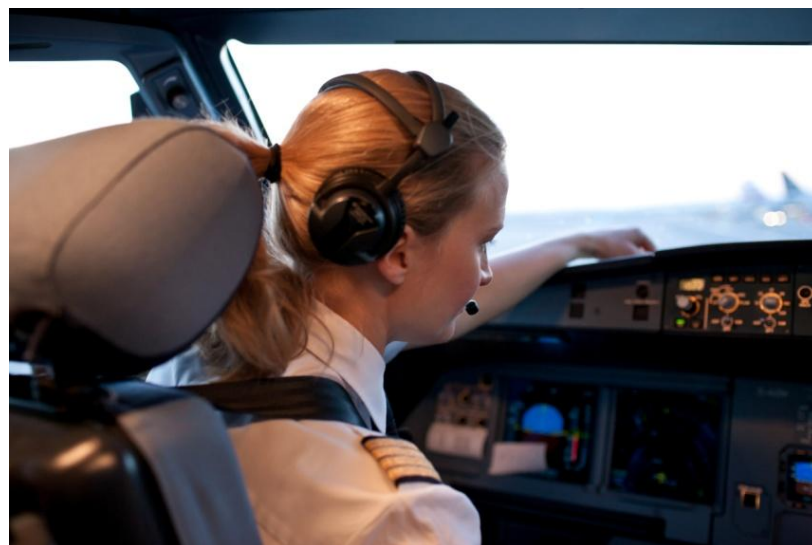




Request Zeit der Piloten vor TOBT (2012/2013 und 2013/2014)



Deicing Request (ICE=E)



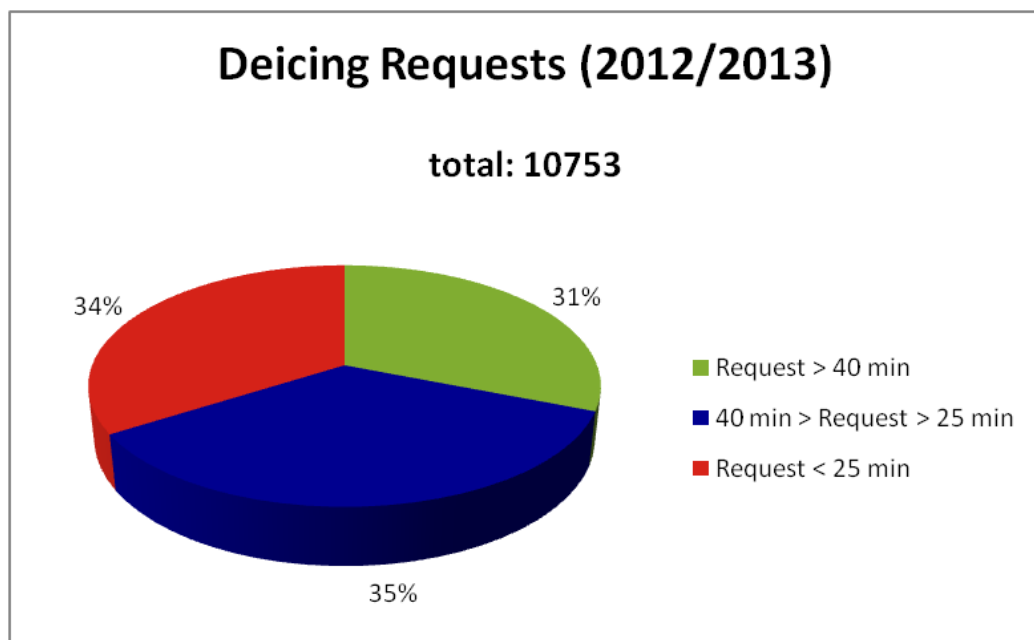
- Request > 40 min
- 40 min > Request > 25 min
- Request < 25 min



Enteisungsanfrage (ICE = E):

Aufgrund des Einflusses der Enteisung auf die Sequenzierung wird dringend empfohlen, eine Enteisung bis zum **Zeitpunkt TOBT- 40 min.** (Zeitpunkt der TSAT Veröffentlichung) anzufordern.

Status Quo





Enteisungsanfrage (ICE = E):

Aufgrund des Einflusses der Enteisung auf die Sequenzierung wird dringend empfohlen, eine Enteisung bis zum **Zeitpunkt TOBT- 40 min.** (Zeitpunkt der TSAT Veröffentlichung) anzufordern.

Status Quo

Ein Enteisungsrequest, der später als 25 Minuten ($TOBT < 25 \text{ Min.}$) vor dem aktuellen Zeitwert der TOBT übermittelt wird, führt dazu, dass der Flug entsprechend Verfügbarkeit und Reihenfolge der freien Ressourcen der Firma N*ICE zur Enteisung eingeplant wird. Dadurch sollen Häufigkeit von TSAT Änderungen und Nachteile für Flüge, die eine Enteisung zeitgerecht angefordert haben, reduziert werden.

**Neu !!!
(2013/2014)**





Änderungen:

- Veröffentlichung der ECZT ab TSAT-issue (Deicing Request erfolgt)
- Neuer A-CDM Status „Deicing Vehicles Allocated“ (DVA)

Luftfahrzeugenteisungsplan Frankfurt/Main Wintersaison 2014/2015

Die Inhalte des Dokuments werden fortlaufend durch eine Arbeitsgruppe, bestehend aus Mitgliedern der relevanten Bereiche der Fraport AG, der FRA-Vorfeldkontrolle GmbH, der Deutschen Flugsicherung GmbH (DFS), NICE Aircraft Services & Support GmbH, des AOC Frankfurt und anderen Vertragspartnern sowie Subunternehmern, überprüft, angepasst und weiterentwickelt.

Der Luftfahrzeugenteisungsplan Frankfurt/Main wird zur Referenz ebenfalls in englischer Version veröffentlicht.

Das verbindliche Dokument wird vor jeder Wintersaison durch die Fraport AG in deutscher Sprache veröffentlicht.

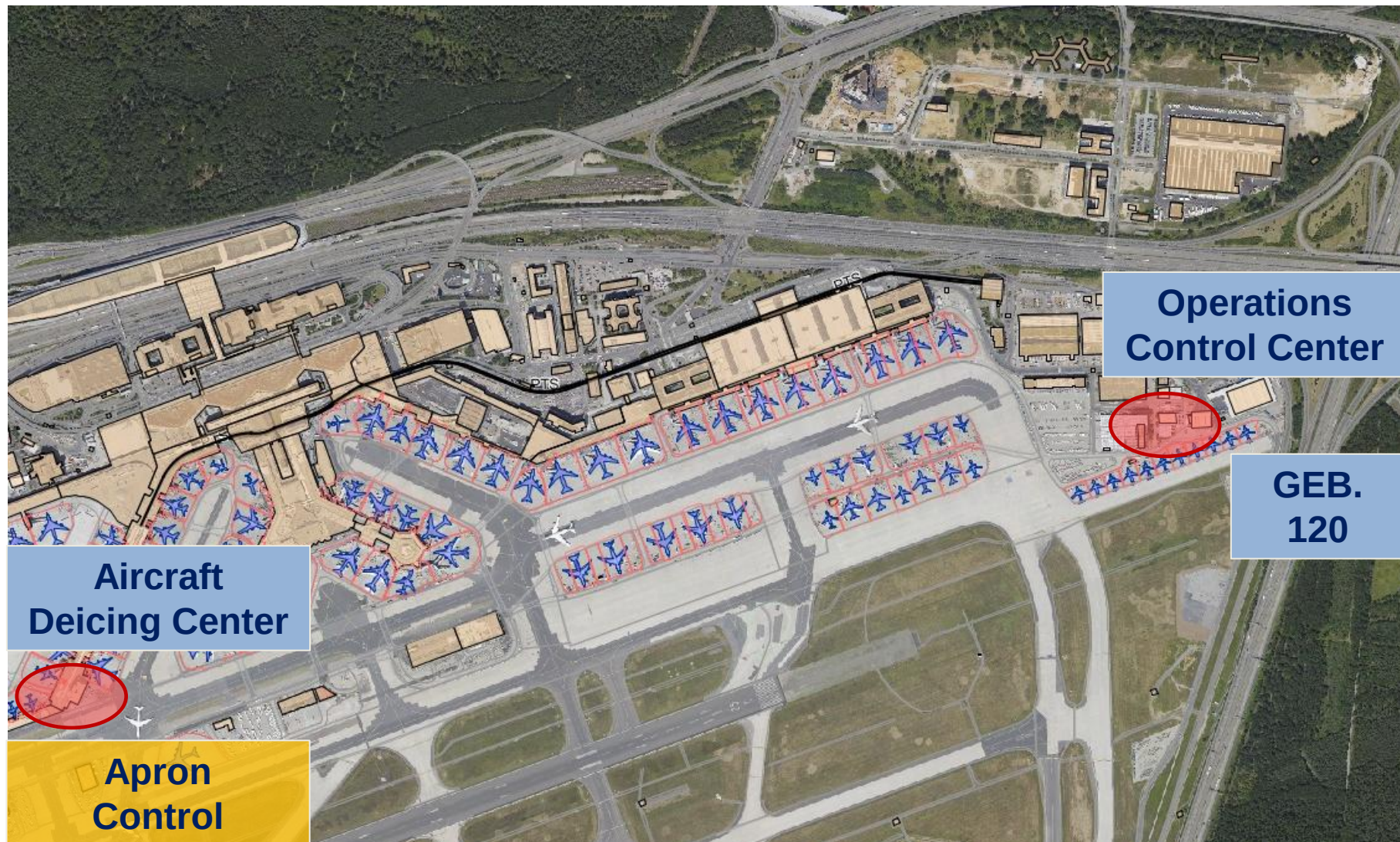


Änderungen:

- Veröffentlichung der ECZT ab TSAT-issue (Deicing Request erfolgt)
- Neuer A-CDM Status „Deicing Vehicles Allocated“ (DVA)

Allgemeines:

- ! • Die Enteisungsdauer (EDIT) ist kein Bestandteil der TOBT
- automatisierter Datenaustausch mit NMOC (Departure Planning Information)
- CTOT-Zuweisung anhand der lokalen Gegebenheiten
- ! • keine Koordination durch Luftfahrzeugbetreiber (Stabilität der Sequenz)
- ! • im Enteisungsfall keine Anpassung der EOBT mehr notwendig







Airport CDM@FRA

6. Forum

„Enteisungsort“

User : x3206015
Role : All Airlines (R)
Last update : 12:26:56
Status : OK

CAT :
RWY : 07/18

UTC FRA-Local

Hilfe
Help

CSA Tool



Inbound Outbound Airport-Information

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FLIGHT	ARCID	A/C	DEST	POS	EOBT	TOBT	TSAT ▲	AOBT	CTOT	ATOT	RWY	RESP	STATUS	ICE	DPD	ECZT	EEZT	ACZT	AEZT
LH 252	DLH3MT	A321	MXP	F223	12:25	12:40	12:40				18W	GHD	BGB						
LH 284	DLH3EV	B733	BLQ	F225	12:40	12:40	12:40		12:53		18W	GHD	BGB						
LH 422	DLH422	B744	BOS	A50	12:40	12:40	12:40				07C		SEQ						
LH 1204	DLH7LA	E190	BSL	V266	12:40	12:40	12:40				18W	GHD	BGB						
TU 745	TAR745	A320	TUN	C5	12:20	12:42	12:42				18W	GHD	RDY						
LH 144	DLH144	B735	NUE	V112	12:45	12:45	12:45				07C	GHD	BGB						
LH 184	DLH3RL	A321	TXL	A11	12:45	12:45	12:45				07C	GHD	SEQ						
SQ 025	SIA25	A388	SIN	B46	12:35	12:35	12:45				18W	GHD	SEQ						
UA 906	UAL906	B744	ORD	V167	12:45	12:45	12:45				07C	GHD	SEQ						
DE 4403T	CFG4403	B763	MXP	H4	12:00	12:50	12:50				18W		SEQ						
LG 9304	LGL9304	DH8D	LUX	V113	12:50	12:50	12:50				18W	GHD	BGB						
LH 882	DLH882	A321	TLL	A36	12:50	12:50	12:50				07C	GHD	SEQ						
LH 1262	DLH04C	E190	GRZ	V268	12:20	12:40	12:50		13:02		18W	GHD	MOT						
LH 1372	DLH5LF	B735	WRO	F221	12:45	12:50	12:50				07C	GHD	SEQ						
OS 130	AUA130A	A319	VIE	A40	12:50	12:50	12:50				07C	GHD	SEQ						





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LH 284	DLH3EV	B733	BLQ	F225	12:40	12:40	12:40		12:53		18W	GHD	BGB						
LH 422	DLH422	B744	BOS	A50	12:40	12:40	12:40				07C		SEQ						
LH 1204	DLH7LA	E190	BSL	V266	12:40	12:40	12:40				18W	GHD	BGB						
TU 745	TAR745	A320	TUN	C5	12:20	12:42	12:42				18W	GHD	RDY						
LH 144	DLH144	B735	NUE	V112	12:45	12:45	12:45				07C	GHD	BGB						
LH 184	DLH3RL	A321	TXL	A11	12:45	12:45	12:45				07C	GHD	SEQ						
SQ 025	SIA25	A388	SIN	B46	12:35	12:35	12:45				18W	GHD	SEQ	P					
UA 906	UAL906	B744	ORD	V167	12:45	12:45	12:45				07C	GHD	SEQ						
DE 4403T	CFG4403	B763	MXP	H4	12:00	12:50	12:50				18W		SEQ						
LG 9304	LGL9304	DH8D	LUX	V113	12:50	12:50	12:50				18W	GHD	BGB						
LH 882	DLH882	A321	TLL	A36	12:50	12:50	12:50				07C	GHD	SEQ						
LH 1262	DLH04C	E190	GRZ	V268	12:20	12:40	12:50		13:02		18W	GHD	MOT						
LH 1372	DLH5LF	B735	WRO	F221	12:45	12:50	12:50				07C	GHD	SEQ						
OS 130	AUA130A	A319	VIE	A40	12:50	12:50	12:50				07C	GHD	SEQ						





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LH 422	DLH422	B744	BOS	A50	12:40	12:40	12:40				07C		SEQ						
LH 1204	DLH7LA	E190	BSL	V266	12:40	12:40	12:40				18W	GHD	BGB						
TU 745	TAR745	A320	TUN	C5	12:20	12:42	12:42				18W	GHD	RDY	R	DP2W				
LH 144	DLH144	B735	NUE	V112	12:45	12:45	12:45				07C	GHD	BGB						
LH 184	DLH3RL	A321	TXL	A11	12:45	12:45	12:45				07C	GHD	SEQ						
SQ 025	SIA25	A388	SIN	B46	12:35	12:35	12:45				18W	GHD	SEQ	P					
UA 906	UAL906	B744	ORD	V167	12:45	12:45	12:45				07C	GHD	SEQ						
DE 4403T	CFG4403	B763	MXP	H4	12:00	12:50	12:50				18W		SEQ						
LG 9304	LGL9304	DH8D	LUX	V113	12:50	12:50	12:50				18W	GHD	BGB						
LH 882	DLH882	A321	TLL	A36	12:50	12:50	12:50				07C	GHD	SEQ						
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LH 1204	DLH7LA	E190	BSL	V266	12:40	12:40	12:40				18W	GHD	BGB						
TU 745	TAR745	A320	TUN	C5	12:20	12:42	12:42				18W	GHD	RDY	R	DP2W				
LH 144	DLH144	B735	NUE	V112	12:45	12:45	12:45				07C	GHD	BGB						
LH 184	DLH3RL	A321	TXL	A11	12:45	12:45	12:45				07C	GHD	SEQ						
SQ 025	SIA25	A388	SIN	B46	12:35	12:35	12:45				18W	GHD	SEQ	P		12:40	13:10		
UA 906	UAL906	B744	ORD	V167	12:45	12:45	12:45				07C	GHD	SEQ						
DE 4403T	CFG4403	B763	MXP	H4	12:00	12:50	12:50				18W		SEQ						
LG 9304	LGL9304	DH8D	LUX	V113	12:50	12:50	12:50				18W	GHD	BGB						
LH 882	DLH882	A321	TLL	A36	12:50	12:50	12:50				07C	GHD	SEQ						
LH 1262	DLH04C	E190	GRZ	V268	12:20	12:40	12:50		13:02		18W	GHD	MOT						
LH 1372	DLH5LF	B735	WRO	F221	12:45	12:50	12:50				07C	GHD	SEQ						
OS 130	AUA130A	A319	VIE	A40	12:50	12:50	12:50				07C	GHD	SEQ						





Airport CDM@FRA

6. Forum

„Enteisungsort“

User : x3206015
Role : All Airlines (R)
Last update : 12:26:56
Status : OK

CAT :
RWY : 07/18

UTC FRA-Local

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Inbound Outbound Airport-Information

Fit Columns: ☒ Search:

FLIGHT	ARCID	A/C	DEST	POS	EOBT	TOBT	TSAT ▲	AOBT	CTOT	ATOT	RWY	RESP	STATUS	ICE	DPD	ECZT	EEZT	ACZT	AEZT
LH 252	DLH3MT	A321	MXP	F223	12:25	12:40	12:40				18W	GHD	BGB						
LH 284	DLH3EV	B733	BLQ	F225	12:40	12:40	12:40		12:53		18W	GHD	BGB						
LH 422	DLH422	B744	BOS	A50	12:40	12:40	12:40				07C		SEQ						
LH 1204	DLH7LA	E190	BSL	V266	12:40	12:40	12:40				18W	GHD	BGB						
TU 745	TAR745	A320	TUN	C5	12:20	12:42	12:42				18W	GHD	RDY	R	DP2W				
LH 144	DLH144	B735	NUE	V112	12:45	12:45	12:45				07C	GHD	BGB						
LH 184	DLH3RL	A321	TXL	A11	12:45	12:45	12:45				07C	GHD	SEQ						
SQ 025	SIA25	A388	SIN	B46	12:35	12:35	13:10				18W	GHD	SEQ	P		12:40	13:10		
UA 906	UAL906	B744	ORD	V167	12:45	12:45	12:45				07C	GHD	SEQ						
DE 4403T	CFG4403	B763	MXP	H4	12:00	12:50	12:50				18W		SEQ						
LG 9304	LGL9304	DH8D	LUX	V113	12:50	12:50	12:50				18W	GHD	BGB						
LH 882	DLH882	A321	TLL	A36	12:50	12:50	12:50				07C	GHD	SEQ						
LH 1262	DLH04C	E190	GRZ	V268	12:20	12:40	12:50		13:02		18W	GHD	MOT						
LH 1372	DLH5LF	B735	WRO	F221	12:45	12:50	12:50				07C	GHD	SEQ						
OS 130	AUA130A	A319	VIE	A40	12:50	12:50	12:50				07C	GHD	SEQ						

Das Enteisungsende entspricht bei Positions-Enteisung der TSAT

Ausnahme: regulierter Flug mit CTOT!





Airport CDM@FRA

6. Forum

„Enteisungsort“

User : x3206015
Role : All Airlines (R)
Last update : 12:26:56
Status : OK

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Inbound Outbound Airport-Information

Fit Columns: ☒ Search:

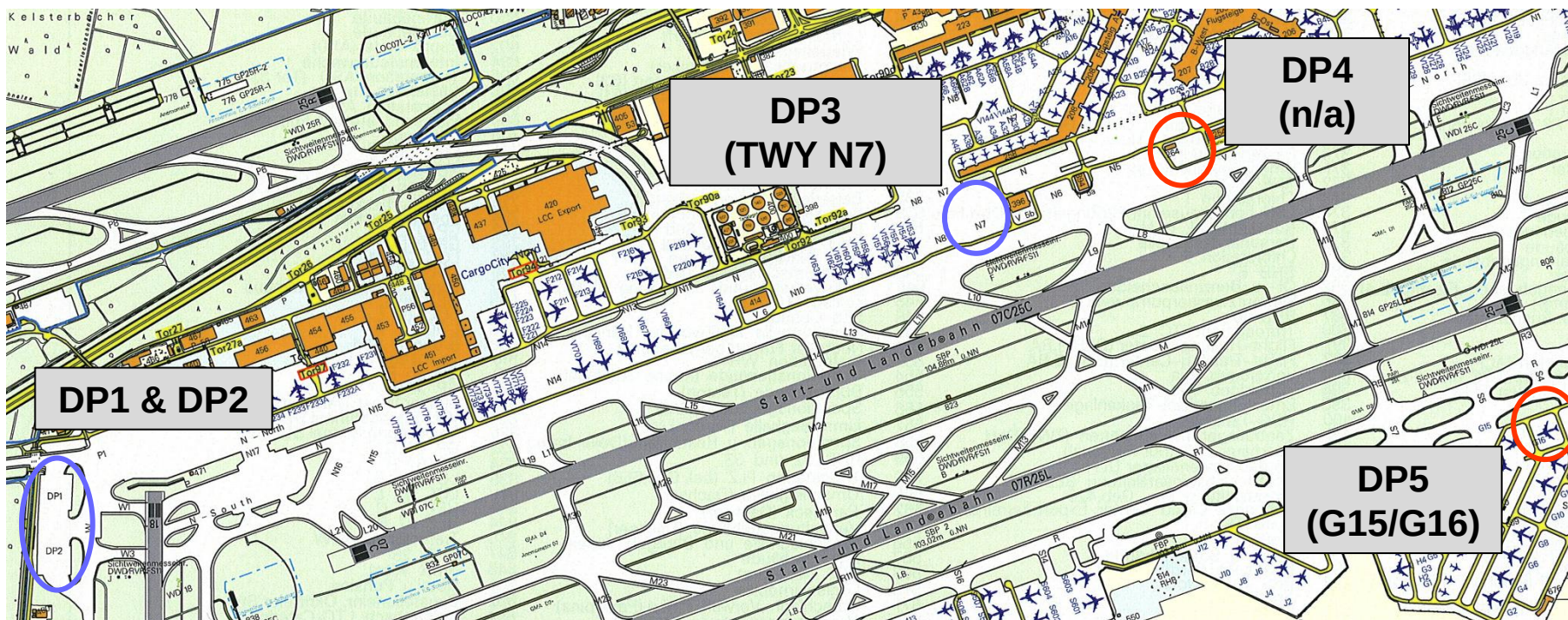
FLIGHT	ARCID	A/C	DEST	POS	EOBT	TOBT	TSAT ▲	AOBT	CTOT	ATOT	RWY	RESP	STATUS	ICE	DPD	ECZT	EEZT	ACZT	AEZT
LH 252	DLH3MT	A321	MXP	F223	12:25	12:40	12:40				18W	GHD	BGB						
LH 284	DLH3EV	B733	BLQ	F225	12:40	12:40	12:40		12:53		18W	GHD	BGB						
LH 422	DLH422	B744	BOS	A50	12:40	12:40	12:40				07C		SEQ						
LH 1204	DLH7LA	E190	BSL	V266	12:40	12:40	12:40				18W	GHD	BGB						
TU 745	TAR745	A320	TUN	C5	12:20	12:42	12:42				18W	GHD	RDY	R	DP2W				
LH 144	DLH144	B735	NUE	V112	12:45	12:45	12:45				07C	GHD	BGB						
LH 184	DLH3RL	A321	TXL	A11	12:45	12:45	12:45				07C	GHD	SEQ						
SQ 025	SIA25	A388	SIN	B46	12:35	12:35	13:10				18W	GHD	SEQ	P		12:40	13:10		
UA 906	UAL906	B744	ORD	V167	12:45	12:45	12:45				07C	GHD	SEQ						
DE 4403T	CFG4403	B763	MXP	H4	12:00	12:50	12:50				18W		SEQ						
LG 9304	LGL9304	DH8D	LUX	V113	12:50	12:50	12:50				18W	GHD	BGB						
LH 882	DLH882	A321	TLL	A36	12:50	12:50	12:50				07C	GHD	SEQ						
LH 1262	DLH04C	E190	GRZ	V268	12:20	12:40	12:50		13:02		18W	GHD	MOT						
LH 1372	DLH5LF	B735	WRO	F221	12:45	12:50	12:50				07C	GHD	SEQ						
OS 130	AUA130A	A319	VIE	A40	12:50	12:50	12:50				07C	GHD	SEQ						

Das Enteisungsende entspricht bei Positions-Enteisung der TSAT

Ausnahme: regulierter Flug mit CTOT!

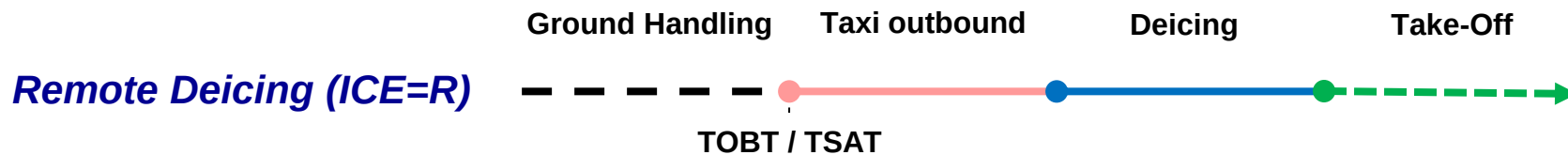


Enteisungsflächen (DPD) für Remote Enteisung (ICE = R)



Flugzeugtypen gemäß Anlage H – Luftfahrzeugenteisungsplan 2014/2015

DP5 (G15/G16) – Intersection Take-Off TWY S oder M auf RWY18



Pilot: „REQUEST START-UP FOR REMOTE DE-ICING“



Airport CDM@FRA

6. Forum

Remote Enteisung – „Actual Times“

User : x3206015
Role : All Airlines (R)
Last update : 12:26:56
Status : OK

CAT :
RWY : 07/18

UTC FRA-Local

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Help

CSA Tool



Inbound Outbound Airport-Information

Fit Columns: ☒ Search:

FLIGHT	ARCID	A/C	DEST	POS	EOBT	TOBT	TSAT ▲	AOBT	CTOT	ATOT	RWY	RESP	STATUS	ICE	DPD	ECZT	EEZT	ACZT	AEZT
LH 252	DLH3MT	A321	MXP	F223	12:25	12:40	12:40				18W	GHD	BGB						
LH 284	DLH3EV	B733	BLQ	F225	12:40	12:40	12:40		12:53		18W	GHD	BGB						
LH 422	DLH422	B744	BOS	A50	12:40	12:40	12:40				07C		SEQ						
LH 1204	DLH7LA	E190	BSL	V266	12:40	12:40	12:40				18W	GHD	BGB						
TU 745	TAR745	A320	TUN	C5	12:20	12:42	12:42	12:37			18W	APR	TXG	R	DP2E				
LH 144	DLH144	B735	NUE	V112	12:45	12:45	12:45				07C	GHD	BGB						
LH 184	DLH3RL	A321	TXL	A11	12:45	12:45	12:45				07C	GHD	SEQ						
SQ 025	SIA25	A388	SIN	B46	12:35	12:35	13:10				18W	GHD	SEQ	P		12:40	13:10		
UA 906	UAL906	B744	ORD	V167	12:45	12:45	12:45				07C	GHD	SEQ						
DE 4403T	CFG4403	B763	MXP	H4	12:00	12:50	12:50				18W		SEQ						
LG 9304	LGL9304	DH8D	LUX	V113	12:50	12:50	12:50				18W	GHD	BGB						
LH 882	DLH882	A321	TLL	A36	12:50	12:50	12:50				07C	GHD	SEQ						
LH 1262	DLH04C	E190	GRZ	V268	12:20	12:40	12:50		13:02		18W	GHD	MOT						
LH 1372	DLH5LF	B735	WRO	F221	12:45	12:50	12:50				07C	GHD	SEQ						
OS 130	AUA130A	A319	VIE	A40	12:50	12:50	12:50				07C	GHD	SEQ						





Airport CDM@FRA

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LH 252	DLH3MT	A321	MXP	F223	12:25	12:40	12:40				18W	GHD	BGB						
LH 284	DLH3EV	B733	BLQ	F225	12:40	12:40	12:40		12:53		18W	GHD	BGB						
LH 422	DLH422	B744	BOS	A50	12:40	12:40	12:40				07C		SEQ						
LH 1204	DLH7LA	E190	BSL	V266	12:40	12:40	12:40				18W	GHD	BGB						
TU 745	TAR745	A320	TUN	C5	12:20	12:42	12:42	12:37			18W	APR	TXG	R	DP2E				
LH 144	DLH144	B735	NUE	V112	12:45	12:45	12:45				07C	GHD	BGB						
LH 184	DLH3RL	A321	TXL	A11	12:45	12:45	12:45				07C	GHD	SEQ						
SQ 025	SIA25	A388	SIN	B46	12:35	12:35	13:10				18W	GHD	SEQ	P		12:40	13:10		
UA 906	UAL906	B744	ORD	V167	12:45	12:45	12:45				07C	GHD	SEQ						
DE 4403T	CFG4403	B763	MXP	H4	12:00	12:50	12:50				18W		SEQ						
LG 9304	LGL9304	DH8D	LUX	V113	12:50	12:50	12:50				18W	GHD	BGB						
LH 882	DLH882	A321	TLL	A36	12:50	12:50	12:50				07C	GHD	SEQ						
LH 1262	DLH04C	E190	GRZ	V268	12:20	12:40	12:50		13:02		18W	GHD	MOT						
LH 1372	DLH5LF	B735	WRO	F221	12:45	12:50	12:50				07C	GHD	SEQ						
OS 130	AUA130A	A319	VIE	A40	12:50	12:50	12:50				07C	GHD	SEQ						

Keine Veröffentlichung von ECZT bzw. EEZT (erwarteter Beginn bzw. Ende)!





Airport CDM@FRA

6. Forum

Remote Enteisung – „Actual Times“

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Inbound Outbound Airport-Information

Fit Columns: ☒ Search:

FLIGHT	ARCID	A/C	DEST	POS	EOBT	TOBT	TSAT ▲	AOBT	CTOT	ATOT	RWY	RESP	STATUS	ICE	DPD	ECZT	EEZT	ACZT	AEZT
LH 252	DLH3MT	A321	MXP	F223	12:25	12:40	12:40				18W	GHD	BGB						
LH 284	DLH3EV	B733	BLQ	F225	12:40	12:40	12:40		12:53		18W	GHD	BGB						
LH 422	DLH422	B744	BOS	A50	12:40	12:40	12:40				07C		SEQ						
LH 1204	DLH7LA	E190	BSL	V266	12:40	12:40	12:40				18W	GHD	BGB						
TU 745	TAR745	A320	TUN	C5	12:20	12:42	12:42	12:37			18W	APR	ADB	R	DP2E			12:50	
LH 144	DLH144	B735	NUE	V112	12:45	12:45	12:45				07C	GHD	BGB						
LH 184	DLH3RL	A321	TXL	A11	12:45	12:45	12:45				07C	GHD	SEQ						
SQ 025	SIA25	A388	SIN	B46	12:35	12:35	13:10				18W	GHD	SEQ	P		12:40	13:10		
UA 906	UAL906	B744	ORD	V167	12:45	12:45	12:45				07C	GHD	SEQ						
DE 4403T	CFG4403	B763	MXP	H4	12:00	12:50	12:50				18W		SEQ						
LG 9304	LGL9304	DH8D	LUX	V113	12:50	12:50	12:50				18W	GHD	BGB						
LH 882	DLH882	A321	TLL	A36	12:50	12:50	12:50				07C	GHD	SEQ						
LH 1262	DLH04C	E190	GRZ	V268	12:20	12:40	12:50		13:02		18W	GHD	MOT						
LH 1372	DLH5LF	B735	WRO	F221	12:45	12:50	12:50				07C	GHD	SEQ						
OS 130	AUA130A	A319	VIE	A40	12:50	12:50	12:50				07C	GHD	SEQ						

Keine Veröffentlichung von ECZT bzw. EEZT (erwarteter Beginn bzw. Ende)!





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FLIGHT	ARCID	A/C	DEST	POS	EOBT	TOBT	TSAT ▲	AOBT	CTOT	ATOT	RWY	RESP	STATUS	ICE	DPD	ECZT	EEZT	ACZT	AEZT
LH 252	DLH3MT	A321	MXP	F223	12:25	12:40	12:40				18W	GHD	BGB						
LH 284	DLH3EV	B733	BLQ	F225	12:40	12:40	12:40		12:53		18W	GHD	BGB						
LH 422	DLH422	B744	BOS	A50	12:40	12:40	12:40				07C		SEQ						
LH 1204	DLH7LA	E190	BSL	V266	12:40	12:40	12:40				18W	GHD	BGB						
TU 745	TAR745	A320	TUN	C5	12:20	12:42	12:42	12:37			18W	APR	ADE	R	DP2E			12:50	12:54
LH 144	DLH144	B735	NUE	V112	12:45	12:45	12:45				07C	GHD	BGB						
LH 184	DLH3RL	A321	TXL	A11	12:45	12:45	12:45				07C	GHD	SEQ						
SQ 025	SIA25	A388	SIN	B46	12:35	12:35	13:10				18W	GHD	SEQ	P		12:40	13:10		
UA 906	UAL906	B744	ORD	V167	12:45	12:45	12:45				07C	GHD	SEQ						
DE 4403T	CFG4403	B763	MXP	H4	12:00	12:50	12:50				18W		SEQ						
LG 9304	LGL9304	DH8D	LUX	V113	12:50	12:50	12:50				18W	GHD	BGB						
LH 882	DLH882	A321	TLL	A36	12:50	12:50	12:50				07C	GHD	SEQ						
LH 1262	DLH04C	E190	GRZ	V268	12:20	12:40	12:50		13:02		18W	GHD	MOT						
LH 1372	DLH5LF	B735	WRO	F221	12:45	12:50	12:50				07C	GHD	SEQ						
OS 130	AUA130A	A319	VIE	A40	12:50	12:50	12:50				07C	GHD	SEQ						

Keine Veröffentlichung von ECZT bzw. EEZT (erwarteter Beginn bzw. Ende)!





Airport CDM@FRA

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Inbound Outbound Airport-Information

Fit Columns: ☒ Search:

ATOT	RWY	RESP	STATUS	ICE	DPD	ECZT	EEZT	ACZT	AEZT
	18W	GHD	BGB						
	18W	GHD	BGB						
	07C		SEQ						
	18W	GHD	BGB						
	18W	APR	ADE	R	DP2E			12:50	12:54
	07C	GHD	BGB						
	07C	GHD	SEQ						
	18W	GHD	SEQ	P		12:40	13:10		
	07C	GHD	SEQ						
	18W		SEQ						
	18W	GHD	BGB						
	07C	GHD	SEQ						
	18W	GHD	MOT						
	07C	GHD	SEQ						
	07C	GHD	SEQ						

Keine Veröffentlichung von ECZT bzw. EEZT (erwarteter Beginn bzw. Ende)!





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Inbound Outbound Airport-Information

Fit Columns: ☒ Search:

ATOT	RWY	RESP	STATUS	ICE	DPD	ECZT	EEZT	ACZT	AEZT
	18W	GHD	BGB						
	18W	GHD	BGB						
	07C		SEQ						
	18W	GHD	BGB						
	18W	TWR	ADE	R	DP2E			12:50	12:54
	07C	GHD	BGB						
	07C	GHD	SEQ						
	18W	GHD	SEQ	P		12:40	13:10		
	07C	GHD	SEQ						
	18W		SEQ						
	18W	GHD	BGB						
	07C	GHD	SEQ						
	18W	GHD	MOT						
	07C	GHD	SEQ						
	07C	GHD	SEQ						

Keine Veröffentlichung von ECZT bzw. EEZT (erwarteter Beginn bzw. Ende)!





Airport CDM@FRA

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Inbound Outbound Airport-Information

Fit Columns: ☒ Search:

ATOT	RWY	RESP	STATUS	ICE	DPD	ECZT	EEZT	ACZT	AEZT
	18W	GHD	BGB						
	18W	GHD	BGB						
	07C		SEQ						
	18W	GHD	BGB						
13:00	18W	TWR	DEP	R	DP2E			12:50	12:54
	07C	GHD	BGB						
	07C	GHD	SEQ						
	18W	GHD	SEQ	P		12:40	13:10		
	07C	GHD	SEQ						
	18W		SEQ						
	18W	GHD	BGB						
	07C	GHD	SEQ						
	18W	GHD	MOT						
	07C	GHD	SEQ						
	07C	GHD	SEQ						

Keine Veröffentlichung von ECZT bzw. EEZT (erwarteter Beginn bzw. Ende)!



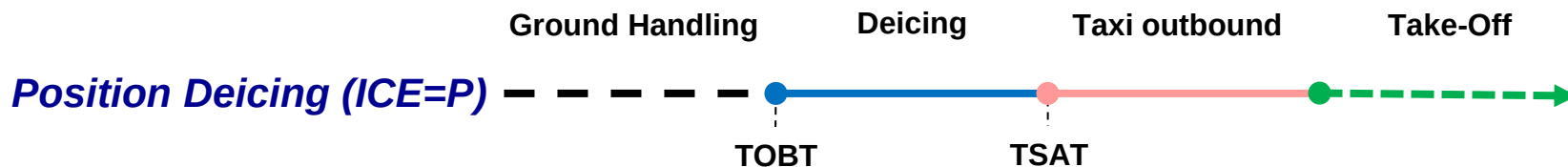


ECZT

EDIT

ACZT

AEZT





Airport CDM@FRA

6. Forum

Positions Enteisung – „Actual Times“

User : x3206015
Role : All Airlines (R)
Last update : 12:26:56
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Help

CSA Tool



Inbound Outbound Airport-Information

Fit Columns: ☒ Search:

FLIGHT	ARCID	A/C	DEST	POS	EOBT	TOBT	TSAT ▲	AOBT	CTOT	ATOT	RWY	RESP	STATUS	ICE	DPD	ECZT	EEZT	ACZT	AEZT
LH 252	DLH3MT	A321	MXP	F223	12:25	12:40	12:40				18W	GHD	BGB						
LH 284	DLH3EV	B733	BLQ	F225	12:40	12:40	12:40		12:53		18W	GHD	BGB						
LH 422	DLH422	B744	BOS	A50	12:40	12:40	12:40				07C		SEQ						
LH 1204	DLH7LA	E190	BSL	V266	12:40	12:40	12:40				18W	GHD	BGB						
TU 745	TAR745	A320	TUN	C5	12:20	12:42	12:42	12:37		13:00	18W	TWR	DEP	R	DP2E			12:50	12:54
LH 144	DLH144	B735	NUE	V112	12:45	12:45	12:45				07C	GHD	BGB						
LH 184	DLH3RL	A321	TXL	A11	12:45	12:45	12:45				07C	GHD	SEQ						
SQ 025	SIA25	A388	SIN	B46	12:35	12:55	13:30				18W	GHD	DVA	P		13:00	13:30		
UA 906	UAL906	B744	ORD	V167	12:45	12:45	12:45				07C	GHD	SEQ						
DE 4403T	CFG4403	B763	MXP	H4	12:00	12:50	12:50				18W		SEQ						
LG 9304	LGL9304	DH8D	LUX	V113	12:50	12:50	12:50				18W	GHD	BGB						
LH 882	DLH882	A321	TLL	A36	12:50	12:50	12:50				07C	GHD	SEQ						
LH 1262	DLH04C	E190	GRZ	V268	12:20	12:40	12:50		13:02		18W	GHD	MOT						
LH 1372	DLH5LF	B735	WRO	F221	12:45	12:50	12:50				07C	GHD	SEQ						
OS 130	AUA130A	A319	VIE	A40	12:50	12:50	12:50				07C	GHD	SEQ						

Neu: A-CDM Status “Deicing Vehicle Allocated” (DVA)

ICR

ICP

DVA





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FLIGHT	ARCID	A/C	DEST	POS	EOBT	TOBT	TSAT ▲	AOBT	CTOT	ATOT	RWY	RESP	STATUS	ICE	DPD	ECZT	EEZT	ACZT	AEZT
LH 252	DLH3MT	A321	MXP	F223	12:25	12:40	12:40				18W	GHD	BGB						
LH 284	DLH3EV	B733	BLQ	F225	12:40	12:40	12:40		12:53		18W	GHD	BGB						
LH 422	DLH422	B744	BOS	A50	12:40	12:40	12:40				07C		SEQ						
LH 1204	DLH7LA	E190	BSL	V266	12:40	12:40	12:40				18W	GHD	BGB						
TU 745	TAR745	A320	TUN	C5	12:20	12:42	12:42	12:37		13:00	18W	TWR	DEP	R	DP2E			12:50	12:54
LH 144	DLH144	B735	NUE	V112	12:45	12:45	12:45				07C	GHD	BGB						
LH 184	DLH3RL	A321	TXL	A11	12:45	12:45	12:45				07C	GHD	SEQ						
SQ 025	SIA25	A388	SIN	B46	12:35	12:55	13:30				18W	GHD	DVP	P		13:00	13:30		
UA 906	UAL906	B744	ORD	V167	12:45	12:45	12:45				07C	GHD	SEQ						
DE 4403T	CFG4403	B763	MXP	H4	12:00	12:50	12:50				18W		SEQ						
LG 9304	LGL9304	DH8D	LUX	V113	12:50	12:50	12:50				18W	GHD	BGB						
LH 882	DLH882	A321	TLL	A36	12:50	12:50	12:50				07C	GHD	SEQ						
LH 1262	DLH04C	E190	GRZ	V268	12:20	12:40	12:50		13:02		18W	GHD	MOT						
LH 1372	DLH5LF	B735	WRO	F221	12:45	12:50	12:50				07C	GHD	SEQ						
OS 130	AUA130A	A319	VIE	A40	12:50	12:50	12:50				07C	GHD	SEQ						

Neu: A-CDM Status “Deicing Vehicle Allocated” (DVA)

ICR

ICP

DVA

DVP





Airport CDM@FRA

6. Forum

Positions Enteisung – „Actual Times“

User : x3206015
Role : All Airlines (R)
Last update : 12:26:56
Status : OK

CAT :
RWY : 07/18

UTC FRA-Local

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CSA Tool



Inbound Outbound Airport-Information

Fit Columns: ☒ Search:

FLIGHT	ARCID	A/C	DEST	POS	EOBT	TOBT	TSAT ▲	AOBT	CTOT	ATOT	RWY	RESP	STATUS	ICE	DPD	ECZT	EEZT	ACZT	AEZT
LH 252	DLH3MT	A321	MXP	F223	12:25	12:40	12:40				18W	GHD	BGB						
LH 284	DLH3EV	B733	BLQ	F225	12:40	12:40	12:40		12:53		18W	GHD	BGB						
LH 422	DLH422	B744	BOS	A50	12:40	12:40	12:40				07C		SEQ						
LH 1204	DLH7LA	E190	BSL	V266	12:40	12:40	12:40				18W	GHD	BGB						
TU 745	TAR745	A320	TUN	C5	12:20	12:42	12:42	12:37		13:00	18W	TWR	DEP	R	DP2E			12:50	12:54
LH 144	DLH144	B735	NUE	V112	12:45	12:45	12:45				07C	GHD	BGB						
LH 184	DLH3RL	A321	TXL	A11	12:45	12:45	12:45				07C	GHD	SEQ						
SQ 025	SIA25	A388	SIN	B46	12:35	12:55	13:30				18W	GHD	DCR	P		13:00	13:30		
UA 906	UAL906	B744	ORD	V167	12:45	12:45	12:45				07C	GHD	SEQ						
DE 4403T	CFG4403	B763	MXP	H4	12:00	12:50	12:50				18W		SEQ						
LG 9304	LGL9304	DH8D	LUX	V113	12:50	12:50	12:50				18W	GHD	BGB						
LH 882	DLH882	A321	TLL	A36	12:50	12:50	12:50				07C	GHD	SEQ						
LH 1262	DLH04C	E190	GRZ	V268	12:20	12:40	12:50		13:02		18W	GHD	MOT						
LH 1372	DLH5LF	B735	WRO	F221	12:45	12:50	12:50				07C	GHD	SEQ						
OS 130	AUA130A	A319	VIE	A40	12:50	12:50	12:50				07C	GHD	SEQ						

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LH 284	DLH3EV	B733	BLQ	F225	12:40	12:40	12:40		12:53		18W	GHD	BGB						
LH 422	DLH422	B744	BOS	A50	12:40	12:40	12:40				07C		SEQ						
LH 1204	DLH7LA	E190	BSL	V266	12:40	12:40	12:40				18W	GHD	BGB						
TU 745	TAR745	A320	TUN	C5	12:20	12:42	12:42	12:37		13:00	18W	TWR	DEP	R	DP2E			12:50	12:54
LH 144	DLH144	B735	NUE	V112	12:45	12:45	12:45				07C	GHD	BGB						
LH 184	DLH3RL	A321	TXL	A11	12:45	12:45	12:45				07C	GHD	SEQ						
SQ 025	SIA25	A388	SIN	B46	12:35	12:55	13:30				18W	GHD	ADB	P		13:00	13:30	12:56	
UA 906	UAL906	B744	ORD	V167	12:45	12:45	12:45				07C	GHD	SEQ						
DE 4403T	CFG4403	B763	MXP	H4	12:00	12:50	12:50				18W		SEQ						
LG 9304	LGL9304	DH8D	LUX	V113	12:50	12:50	12:50				18W	GHD	BGB						
LH 882	DLH882	A321	TLL	A36	12:50	12:50	12:50				07C	GHD	SEQ						
LH 1262	DLH04C	E190	GRZ	V268	12:20	12:40	12:50		13:02		18W	GHD	MOT						
LH 1372	DLH5LF	B735	WRO	F221	12:45	12:50	12:50				07C	GHD	SEQ						
OS 130	AUA130A	A319	VIE	A40	12:50	12:50	12:50				07C	GHD	SEQ						

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LH 284	DLH3EV	B733	BLQ	F225	12:40	12:40	12:40		12:53		18W	GHD	BGB						
LH 422	DLH422	B744	BOS	A50	12:40	12:40	12:40				07C		SEQ						
LH 1204	DLH7LA	E190	BSL	V266	12:40	12:40	12:40				18W	GHD	BGB						
TU 745	TAR745	A320	TUN	C5	12:20	12:42	12:42	12:37		13:00	18W	TWR	DEP	R	DP2E			12:50	12:54
LH 144	DLH144	B735	NUE	V112	12:45	12:45	12:45				07C	GHD	BGB						
LH 184	DLH3RL	A321	TXL	A11	12:45	12:45	12:45				07C	GHD	SEQ						
SQ 025	SIA25	A388	SIN	B46	12:35	12:55	13:30				18W	GHD	ADE	P		13:00	13:30	12:56	13:20
UA 906	UAL906	B744	ORD	V167	12:45	12:45	12:45				07C	GHD	SEQ						
DE 4403T	CFG4403	B763	MXP	H4	12:00	12:50	12:50				18W		SEQ						
LG 9304	LGL9304	DH8D	LUX	V113	12:50	12:50	12:50				18W	GHD	BGB						
LH 882	DLH882	A321	TLL	A36	12:50	12:50	12:50				07C	GHD	SEQ						
LH 1262	DLH04C	E190	GRZ	V268	12:20	12:40	12:50		13:02		18W	GHD	MOT						
LH 1372	DLH5LF	B735	WRO	F221	12:45	12:50	12:50				07C	GHD	SEQ						
OS 130	AUA130A	A319	VIE	A40	12:50	12:50	12:50				07C	GHD	SEQ						

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LH 284	DLH3EV	B733	BLQ	F225	12:40	12:40	12:40		12:53		18W	GHD	BGB						
LH 422	DLH422	B744	BOS	A50	12:40	12:40	12:40				07C		SEQ						
LH 1204	DLH7LA	E190	BSL	V266	12:40	12:40	12:40				18W	GHD	BGB						
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LH 144	DLH144	B735	NUE	V112	12:45	12:45	12:45				07C	GHD	BGB						
LH 184	DLH3RL	A321	TXL	A11	12:45	12:45	12:45				07C	GHD	SEQ						
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UA 906	UAL906	B744	ORD	V167	12:45	12:45	12:45				07C	GHD	SEQ						
DE 4403T	CFG4403	B763	MXP	H4	12:00	12:50	12:50				18W		SEQ						
LG 9304	LGL9304	DH8D	LUX	V113	12:50	12:50	12:50				18W	GHD	BGB						
LH 882	DLH882	A321	TLL	A36	12:50	12:50	12:50				07C	GHD	SEQ						
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LH 1372	DLH5LF	B735	WRO	F221	12:45	12:50	12:50				07C	GHD	SEQ						
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LH 252	DLH3MT	A321	MXP	F223	12:25	12:40	12:40				18W	GHD	BGB						
LH 284	DLH3EV	B733	BLQ	F225	12:40	12:40	12:40		12:53		18W	GHD	BGB						
LH 422	DLH422	B744	BOS	A50	12:40	12:40	12:40				07C		SEQ						
LH 1204	DLH7LA	E190	BSL	V266	12:40	12:40	12:40				18W	GHD	BGB						
TU 745	TAR745	A320	TUN	C5	12:20	12:42	12:42	12:37		13:00	18W	TWR	DEP	R	DP2E			12:50	12:54
LH 144	DLH144	B735	NUE	V112	12:45	12:45	12:45				07C	GHD	BGB						
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UA 906	UAL906	B744	ORD	V167	12:45	12:45	12:45				07C	GHD	SEQ						
DE 4403T	CFG4403	B763	MXP	H4	12:00	12:50	12:50				18W		SEQ						
LG 9304	LGL9304	DH8D	LUX	V113	12:50	12:50	12:50				18W	GHD	BGB						
LH 882	DLH882	A321	TLL	A36	12:50	12:50	12:50				07C	GHD	SEQ						
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LH 1372	DLH5LF	B735	WRO	F221	12:45	12:50	12:50				07C	GHD	SEQ						
OS 130	AUA130A	A319	VIE	A40	12:50	12:50	12:50				07C	GHD	SEQ						

Pilot: „REQUEST START-UP AFTER DE-ICING“

ICR

ICP

DVA

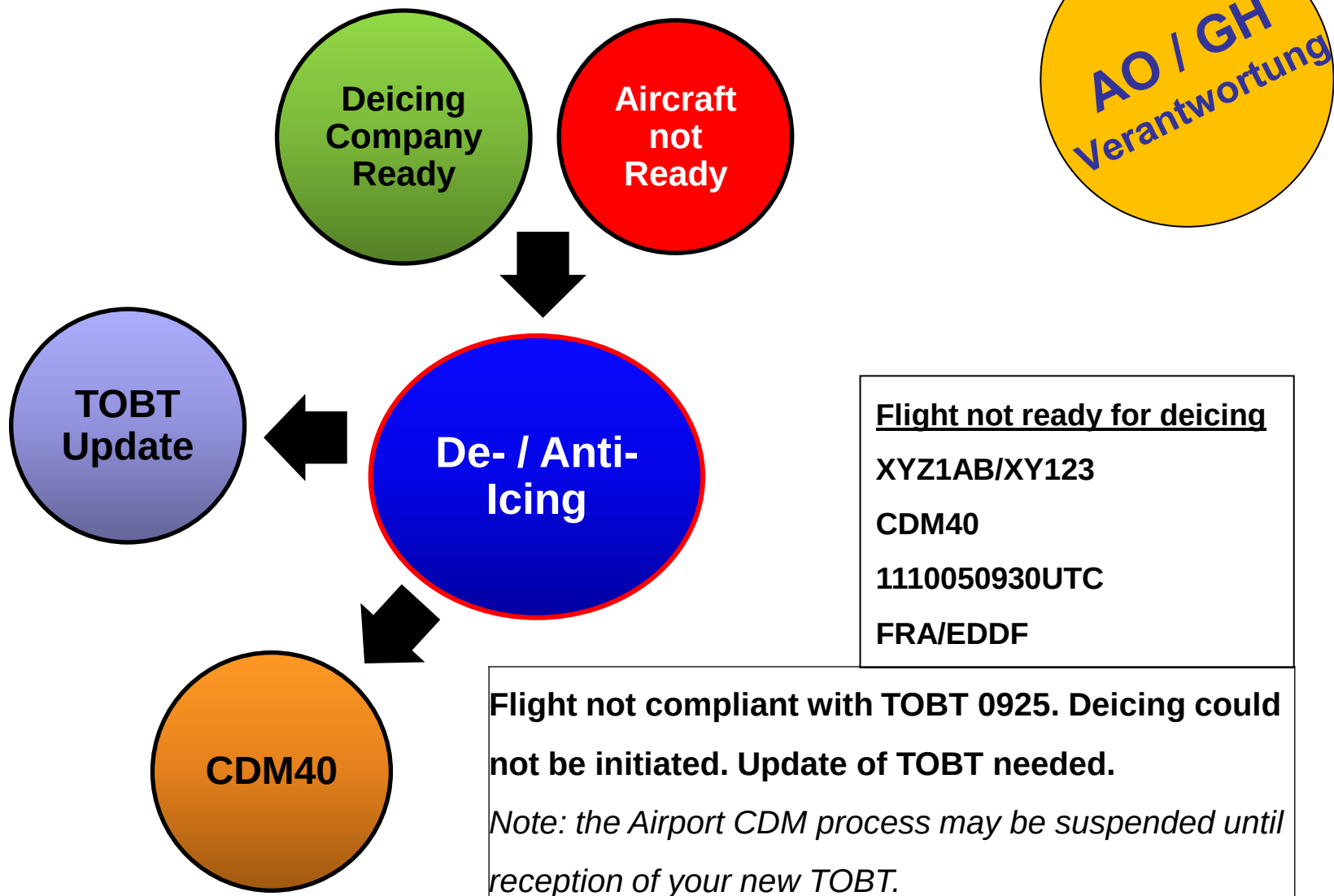
DVP

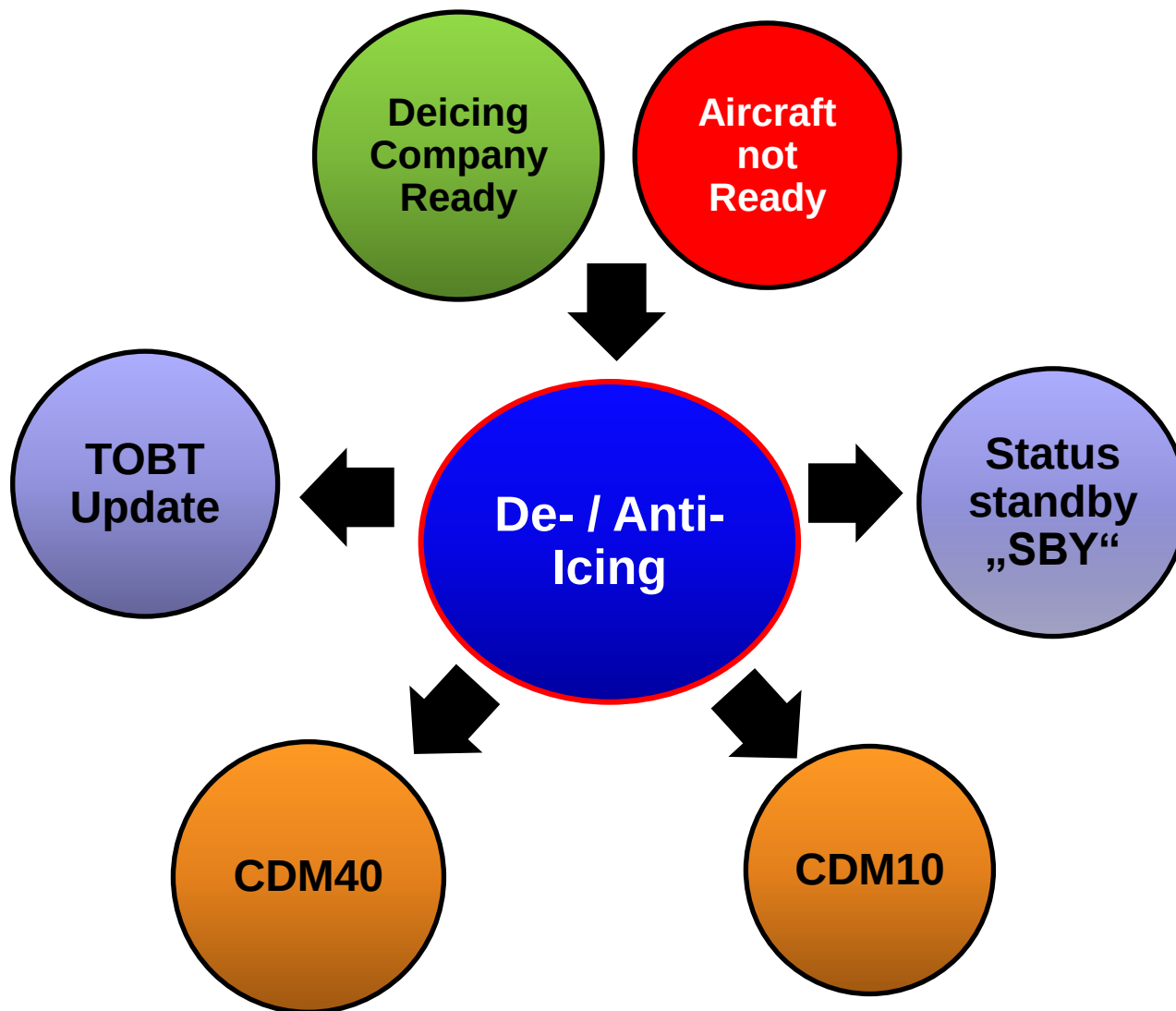
DCR

ADB

ADE











	Streudienst	Mittlerer Winterdienst	Großer Winterdienst
Vorhersage DWD	FZFG, Rauhreif	SN < 1 cm oder 1-3 cm Eintrittswahrscheinlichkeit 30%	SN 1-3 cm Eintrittswahrscheinlichkeit > 30% o.a. wie FZRA, FZDZ

Niederschlagswahrscheinlichkeit und Wetter im 3-Stunden-Zeitintervall

Do 12-15	Do 15-18	Do 18-21	Do 21-24	Fr 00-03	Fr 03-06	Fr 06-09	Fr 09-12	Fr 12-15	Fr 15-18
0 %	90 %	90 %	30 %	0 %	0 %	10 %	90 %	60 %	30 %
	FZRA -SN	FZRA RA	RA			-SN	+SN SN	-SN SN	SHSN

Neuschneehöhe (cm) nicht kumuliert

Do 12-15	Do 15-18	Do 18-21	Do 21-24	Fr 00-03	Fr 03-06	Fr 06-09	Fr 09-12	Fr 12-15	Fr 15-18
	< 1					< 0,5	3 - 5	1 - 3	1 - 3

Snow and ice management equipment

Streudienst

Nur Streufahrzeuge

Mittlerer Winterdienst

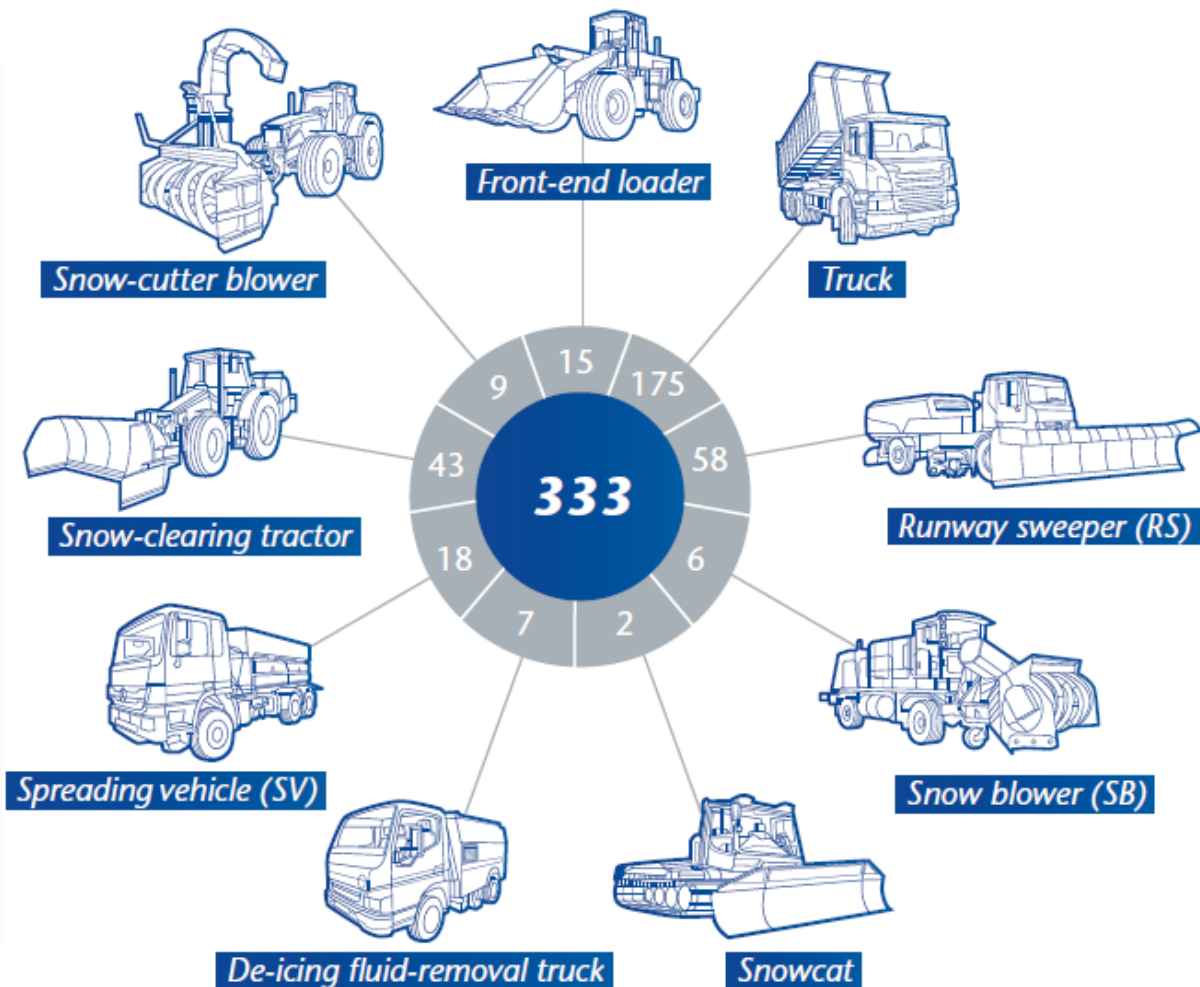
1 großer Räumzug (RWY)

1 kleiner Räumzug (TWY)

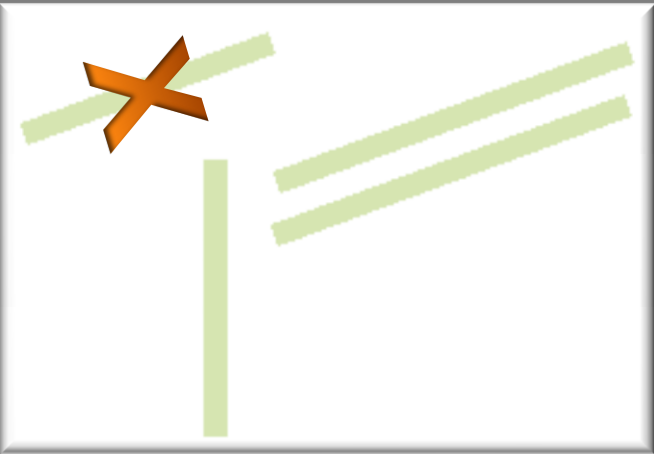
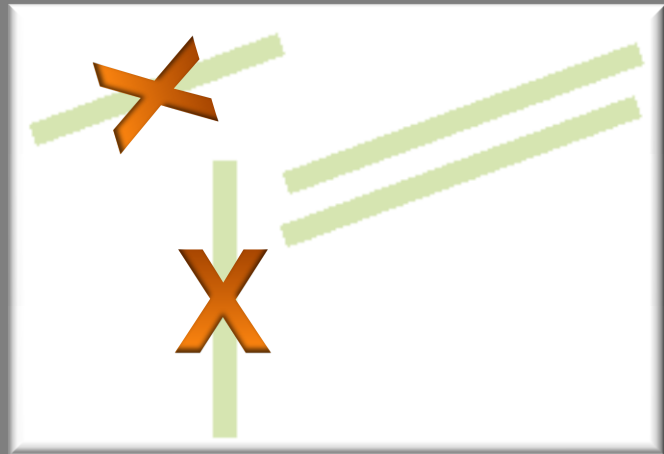
Großer Winterdienst

2 große Räumzüge (RWY)

2 kleine Räumzüge (TWY)

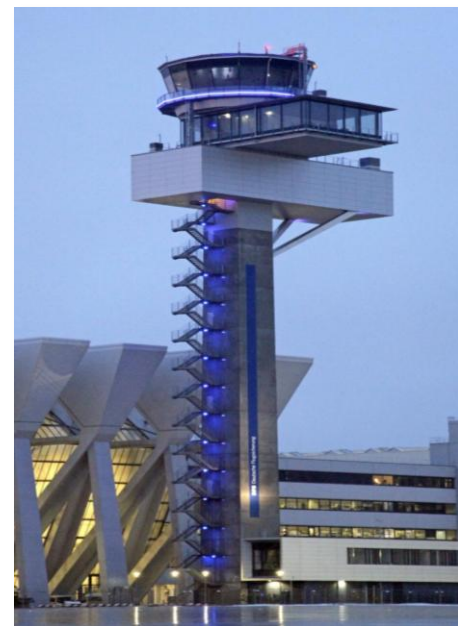




Szenario	IRREG	Schwere IRREG
Vorhersage DWD	Anhaltender Schneefall > 6 h FZDZ, FZRA	Anhaltender Schneefall > 6 h mit Belagsbildung > 3 cm FZDZ, FZRA
Räumzüge	Großer Winterdienst 4 Räumzüge (RWY + TWY)	Großer Winterdienst 4 Räumzüge (RWY + TWY)
Erwartete Operationelle Auswirkungen	Landerate 15-20 Outbound Kapazität 15-20 Positionsknappheit 15-20% Flugstreichungen 	Landerate 10-15 Outbound Kapazität 10-15 Positionsknappheit/Sonderpositionierung Bis 40% Flugstreichungen 



- Wir benötigen Prozesssteuer (z.B. zeitgerechte Enteisungsanfrage) und eine hohe Datenqualität der TOBT.
- Die Transparenz und der Informationsaustausch helfen Entscheidungen zu treffen.
- Wir erhalten alle eine bessere Vorhersagbarkeit und Stabilität der Prozesse während der Winter Operations.
- **Aber: Wie stark ist ein Winterereignis wirklich?!**



***Adverse Conditions
Chaotic Situation
Severe Disruption***





Vielen Dank!

??? Fragen ???





Dann warten wir mal gemeinsam auf den Winter!

