



Airport Collaborative Decision Making (A-CDM)

Train The Trainer (Basic) – Airlines & Ground Handlers

April 2025

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Workbook Overview

This workbook contains information to support **Train the Trainer (A-CDM Airline & Ground Handler Workspaces)** for the implementation of A-CDM in Australia.

Note that each airline partner will have their own version of the workspaces designed for their operational needs and way of managing A-CDM within their own organisation. There is also a general workspace for non-partners and ground handlers which can be configured for their airlines.

This Train the Trainer workbook explains the basic tools available in this airline (partner / non-partner) / ground handler workspace.

Please reach out to your A-CDM key contact for more information on how these workspaces will be implemented within your organisation.

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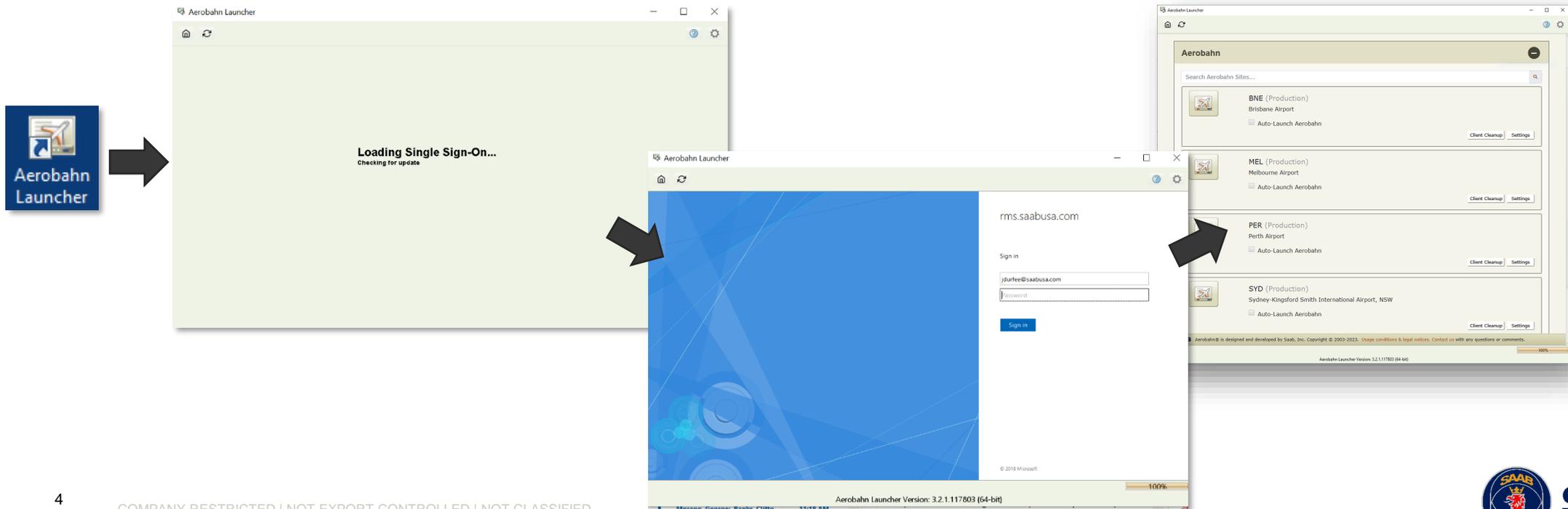
Accessing Aerobahn A-CDM

AEROBAHN LAUNCHER

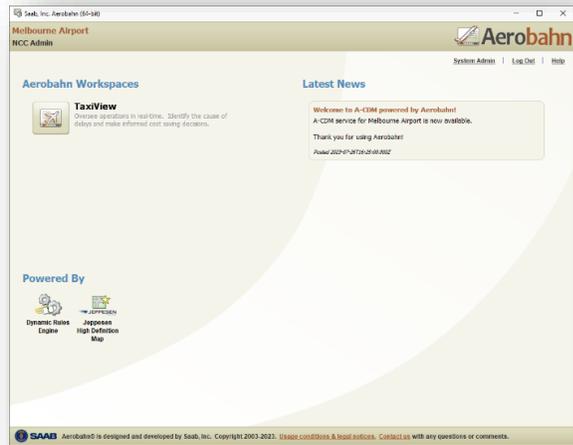
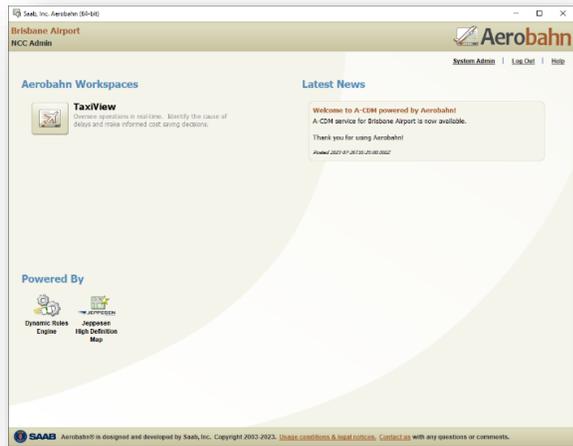
Accessing Aerobahn A-CDM

Aerobahn Launcher

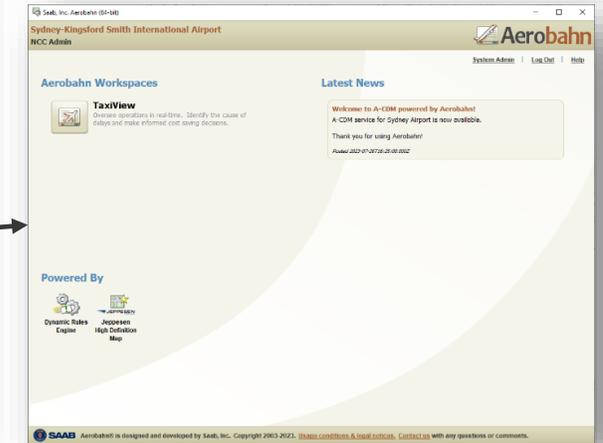
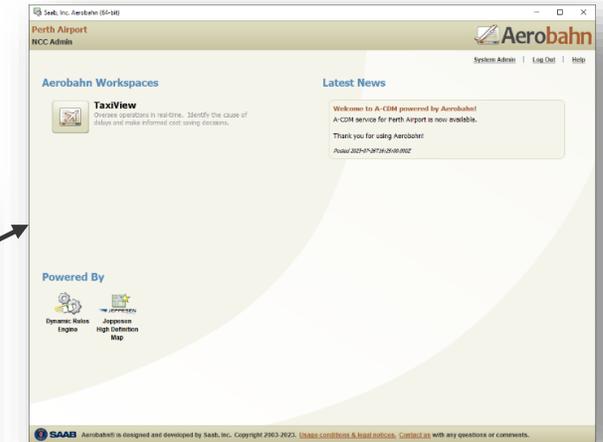
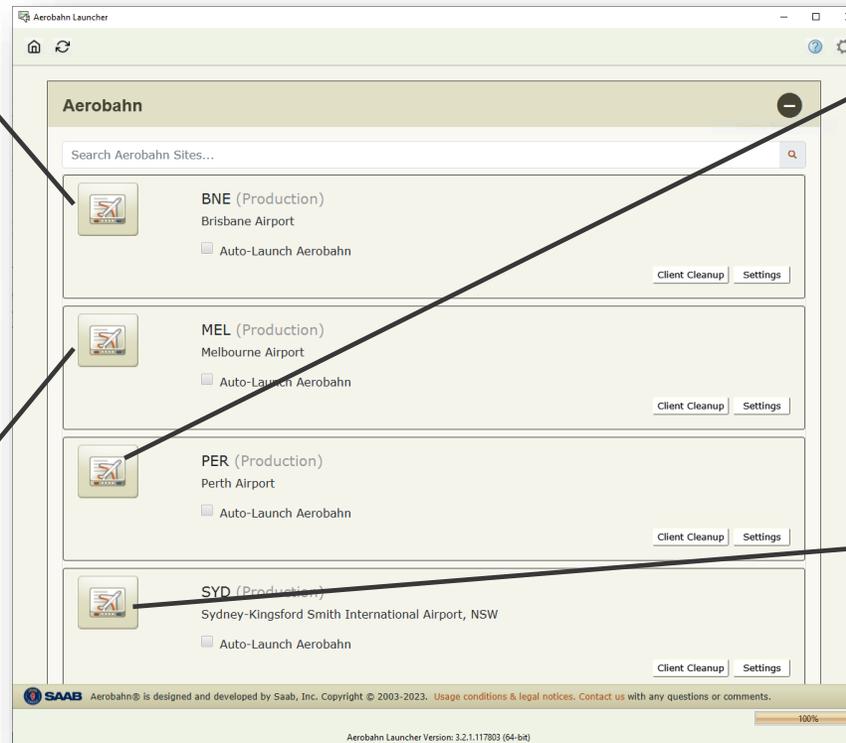
- After appropriate configuration, open the Aerobahn Launcher to be re-directed to the Identity Provider for login.
- Once logged in, the user will then be shown a portal page with each of the sites they are authorised to use.



Aerobahn A-CDM Portal Page

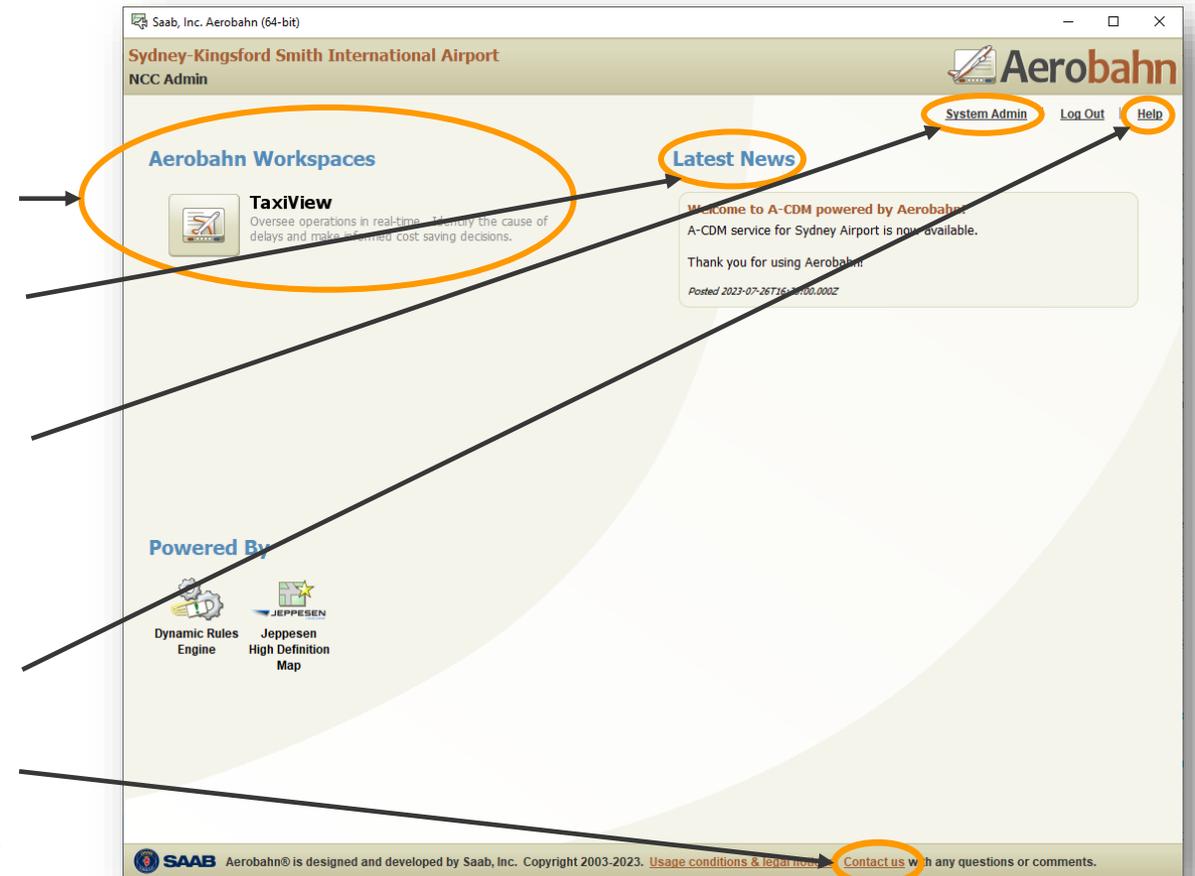


Selecting the icon will open the respective Aerobahn Portal Page for each airport



Aerobahn A-CDM Portal Page

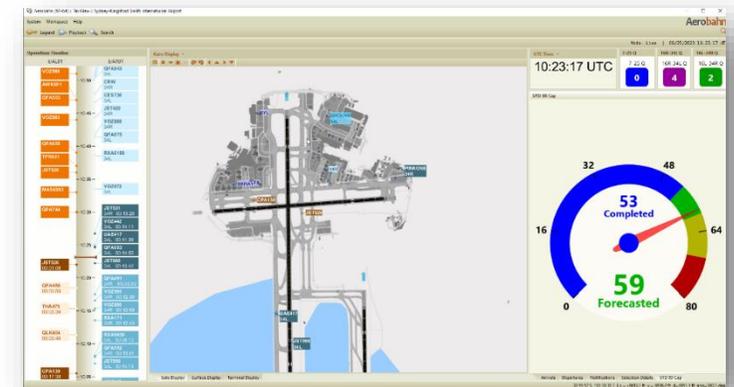
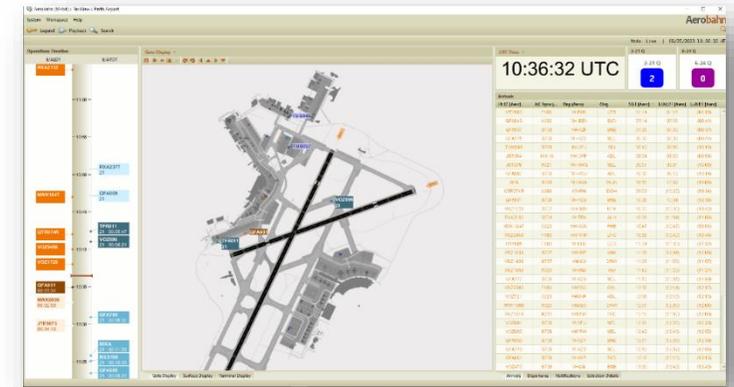
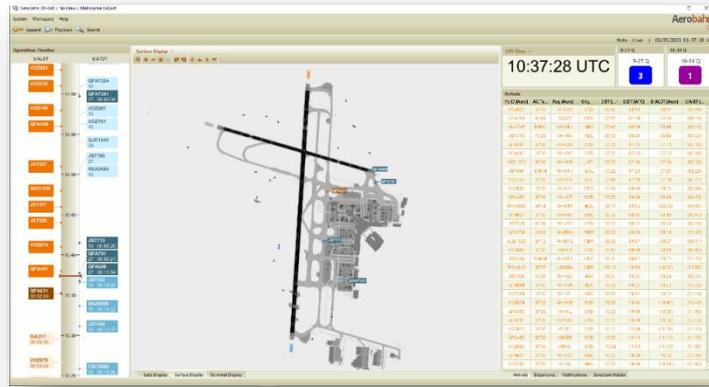
- The Aerobahn A-CDM Portal screen indicates your connection to Aerobahn is active, client software is running, and flight information is downloaded.
- TaxiView button opens the Common Workspace.
- The “Latest News” panel announces upgrades, planned maintenance, map updates and other pertinent information.
- The “System Admin” link opens a companion application where one can change their, display name, and set some preferences such as how times are expressed in Aerobahn (local and UTC).
- The “Help” link opens a searchable interactive Help manual.
- “Contact us” opens and displays the Help Desk contact information. Any questions or observations relating to Aerobahn are first reported to your local Service Desk. They will then escalate to Saab for investigation if necessary. Saab’s Customer Service supports 24/7/365.



A-CDM Common Workspace (All Users)

BASIC FUNCTIONALITY

A-CDM Common Workspace



- Selecting **TaxiView** on the Aerobahn Portal Page will open the Common Workspace for the airport of choice
- Each user will be provided with the same workspace in Aerobahn, called the Common Workspace.
- The Common Workspaces, while having the same structure for the workspace, will show the data relevant to that airport (e.g. different maps, custom queue counters based on runways, etc.)
- The following slides explain the tools that can be found in this workspace.

Watch List Viewers

Watch List Viewers – Arrivals and Departures

- Shows all Arrivals and Departures with respect to the aerodrome for which the Aerobahn workspace has been opened.
- Sorted by SIBT (Aero) and SOBT (Aero) respectively.
- Each Watch List contains Estimated/Actual time fields:
 - If a time in this column has parentheses around it, that time is estimated (e.g., (22:50)).
 - If a time in this column does not have parentheses around it, that time is an actual (e.g., 22:54).

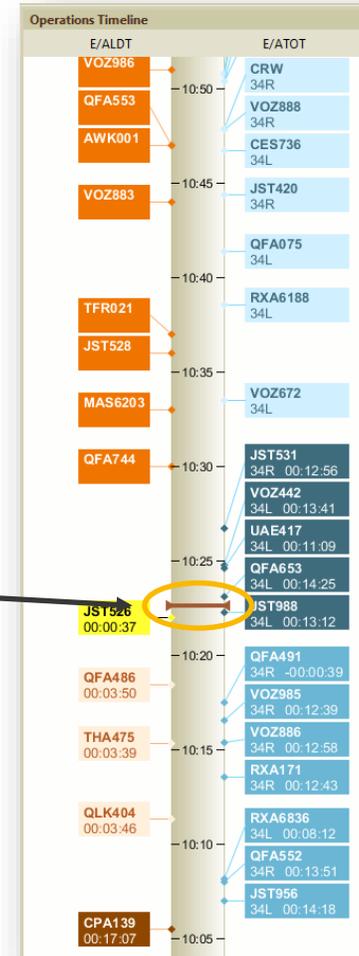
Arrivals						
Flt ID (Aero)	AC Typ...	Reg (Aero)	Orig	SIBT (A...	E/ALDT (...)	E/AIBT (A...
VOZ1385	B738	VHVUK	ADL	22:50	22:54	(22:50)
QFA1886	E190	VHKVU	NTL	23:28	23:21	(23:28)
SOL700	A320	H4SAL	HIR	06:48	06:35	(06:48)
RXA5733	SF34	VHZRM	RMA	06:59	07:24	(06:59)
VET	SW4	VHVET	OAG	07:18	07:10	(07:18)
VOZ1109	F70	VHQGW	NTL	07:47	08:35	(07:47)
VOZ337	B738	VHUUU	MEL	08:02	08:17	(08:02)
VOZ814	B737	VHVBZ	MKY	08:41	08:43	(08:41)
VOZ382	F100	VHXWQ	TSV	08:57	09:21	(08:57)
VOZ786	B737	VHVBV	CNS	08:58	09:01	(08:58)
QFA186	B738	VHVZJ	CHC	08:58	10:53	(08:58)
VOZ1403	F100	VHXWN	ADL	10:25	11:00	(10:25)
VOZ347	B738	VHYFJ	MEL	10:52	11:32	(10:52)
VOZ985	B738	VHYQH	SYD	10:53	10:50	(10:53)
UTY8463	F70	VHKNQ	MOV	11:12	11:17	(11:12)
QFA830	B738	VHKZM	MEL	11:13	12:38	(11:13)
UTY8469	F70	VHJFB	MOV	11:27	11:28	(11:27)
UTY8449	F70	VHQGX	EMD	12:11	12:03	(12:11)
QFA832	B738	VHVZA	MEL	12:13	12:28	(12:13)
QFA834	B738	VHVZM	MEL	13:13	13:37	(13:13)
FD458	BE20	VHFDZ	ROK	13:37	14:47	(13:37)
JST673	A320	VH-VQC	DRW	20:22	20:23	(21:30)
VED	SF34	VH-VED	TMW	21:30	21:12	(22:20)
QFA120	B738	VH-VZH	AKL	21:36	22:54	(23:36)
JST810	A321	VH-VWU	SYD	21:40	21:39	(21:42)
QFA800	B738	VH-VZS	MEL	21:53	22:08	(22:11)
VOZ905	B738	VH-VUU	SYD	21:56	22:04	(23:09)
RXA202	B738	VH-REX	MEL	21:59	22:06	(23:10)
VOZ303	B738	VH-VKJ	MEL	22:02	22:13	(23:17)
VOZ1101	F100	VH-FGB	NTL	22:02	22:02	(22:05)

Departures							
Flt ID (Aero)	AC Typ...	Reg (Aero)	Dest	Run...	SOBT (Ae...	E/AOBT (...)	E/ATOT (...)
QFA708	B738	VH-VYJ	CNS	01L	23:05	(23:38)	(23:45)
QFA119	A332	VH-EBO	AKL	19R	23:10	(23:38)	(23:52)
UTY860	F100	VHXWR	MOO	19R	23:10	(23:33)	(23:43)
QFA513	B738	VH-VYB	SYD	01R	23:15	23:27	(23:36)
SIA256	A359	9V-SHP	SIN	19R	23:20	(23:36)	(23:50)
QFA057	B738	VHVZJ	POM	01L	23:25	(23:33)	(23:43)
RXA329	B738	VH-RQC	SYD	01R	23:30	(23:33)	(23:43)
JST834		VH-VGP	PPP	01L	23:40	(23:35)	(23:49)
VOZ702	B738	VH-YFE	HBA	01R	23:40	(23:54)	(00:04)
QFA1933	E190	VH-UZK	ADL	01R	23:40	(23:54)	(00:05)
QFA183	B738	VH-VZH	NLK	01R	23:45	(23:54)	(23:57)
VOZ1023	F70	VHQGW	ASP	01R	23:50	(23:43)	(23:53)
VOZ322	B738	VH-YIH	MEL	01R	23:55	(23:48)	(00:03)
ACA036	B789	C-FNOH	YVR	19R	00:00	(23:58)	(00:12)
JST567		VHVGO	MEL	01R	00:00	(23:47)	(23:57)
VOZ938	B738	VHVUT	SYD	01R	00:05	(23:58)	(00:08)
VOZ115	B738	VHYIO	ZQN	19R	00:10	(00:03)	(00:13)
QFA1949	E190	VH-VXK	HBA	01R	00:10	(00:03)	(00:13)
PAL222	UNKN	RPC9936	MNL	19R	00:30	(00:28)	(00:38)
QFA051	A332	VH-EBV	SIN	19R	00:30	(00:28)	(00:42)
AVN025	A320	H4SAL	SON	19L	00:30	(00:28)	(00:38)
JST815		VH-KNI	SYD	01R	01:15	(00:49)	(00:59)
T007CJJK	GLEX	T7CJJK	AKL	01R	01:30	(01:23)	(01:33)
RXA337	B738	VHRQG	SYD	01R	01:30	(01:23)	(01:33)
JST802		VHVGR	ADL	01R	01:30	(00:49)	(00:59)
JST656		VHVOC	CBR	01R	01:40	(01:01)	(01:11)
JST571		VHVFI	MEL	01R	01:55	(01:39)	(01:49)
AWK094	B734	ZK-PAT	AKL	19L	02:50	(03:15)	(03:25)
CAL053	A359	B18916	AKL	01L	02:55	(02:53)	(03:04)
ANG004	B763	N351AX	POM	01R	03:15	(03:13)	(03:23)

Operations Timeline

Operations Timeline

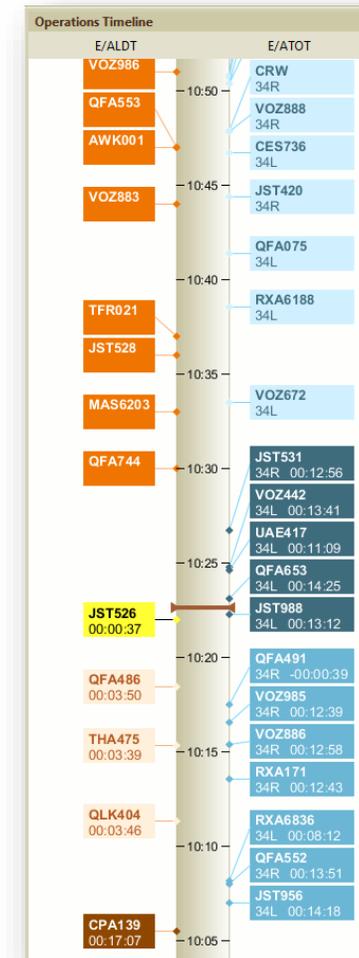
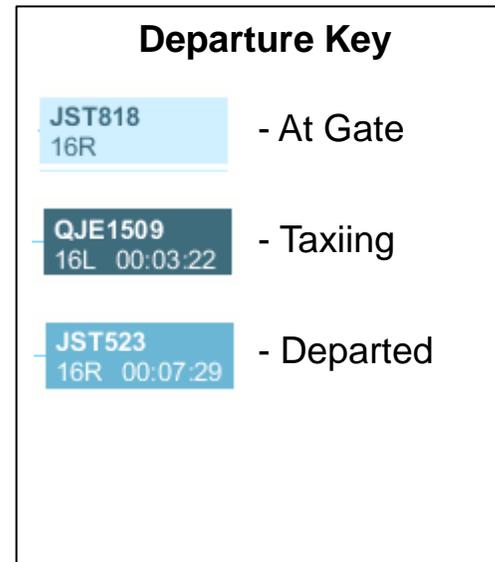
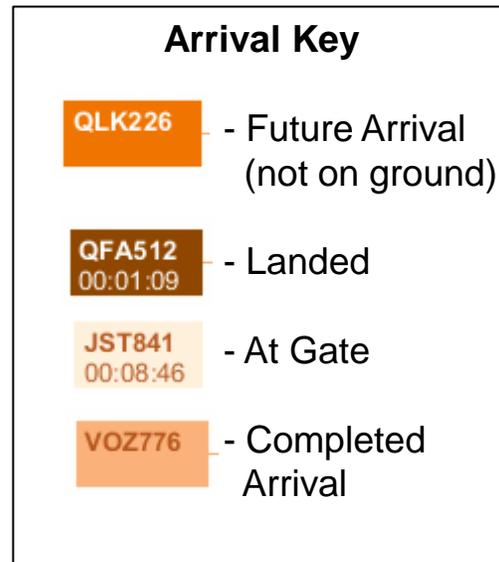
- Shows data blocks in a predicted sequence of operations for a single runway or for the airport. It can also be set to show region closures.
- Set based on E/ALDT for arrivals and E/ATOT for departures.
- To adjust the time frame in view, click within the tool window and drag up and down. To increase or decrease the amount of time in view (zoom in or out), roll the scroll wheel within the tool window.
- This bar marks the current time.
- If a flight is selected in the Operations Timeline tool, it is also selected in all other applicable tools in the workspace.
 - For example, the flight selected in the screenshot, JST526, would also be selected in a Watch List Viewer, Selection Details, and the Map Display



Operations Timeline (cont.)

Operations Timeline Colour Key

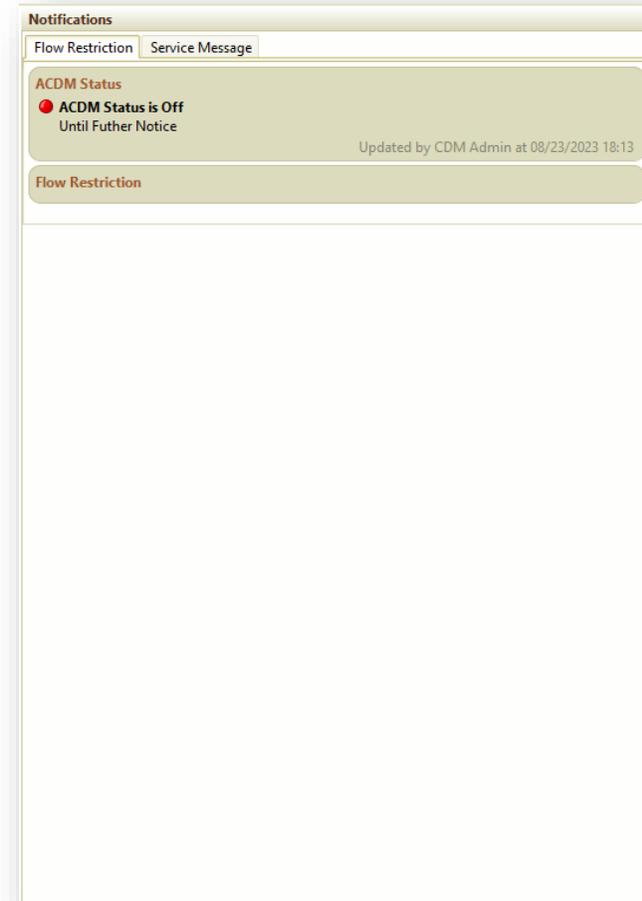
- The data blocks for each flight on the timeline are coloured based on the operational state.



Notifications

Notifications

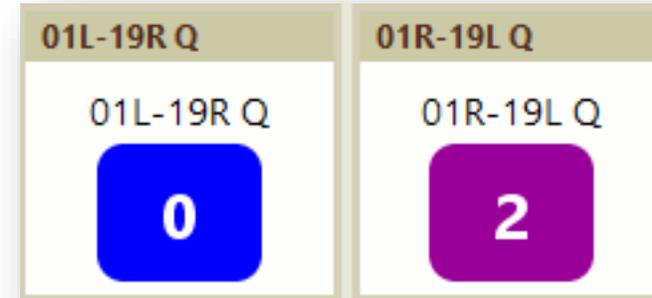
- The notifications tab will display any prevalent information regarding the aerodrome for which the Aerobahn workspace has been opened.
- This information will consist of the ACDM service status being either on or off, as well as general bulletins.



Counters

Counters

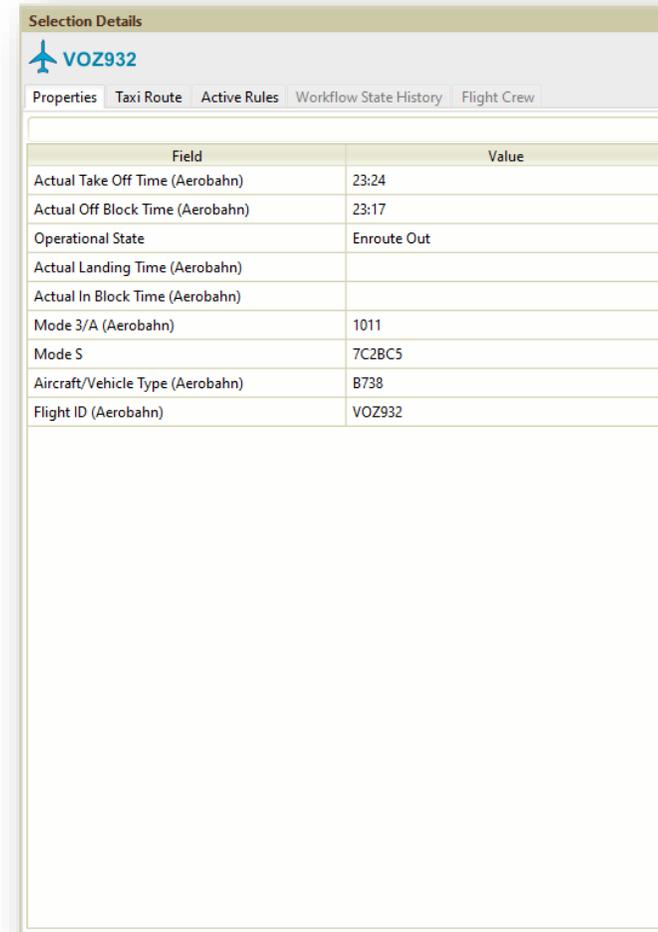
- The counters provide live counts of aircraft that meet the criteria determined by a certain set of rules.
- The counters in the common workspace are the departure queues for a specific runway.
- In the BNE common workspace, the counters to the right are present:
 - The 01L-19R Q will provide a live count of outbound flights that are taxiing out with a predicted departure runway of 01L/19R.
 - The 01R-19L Q will provide a live count of outbound flights that are taxiing out with a predicted departure runway of 01R/19L.



Selection Tools

Selection Details

- Provides select information for a selected target.
- Multiple tabs available:
 - **Properties** = Data for target
 - **Taxi Route** = Region by region path of aircraft
 - Show Route on Map = Display the highlighted taxi route path in the Map Display tools (i.e. the Surface Display)
 - **Active Rules** = Shows all Dynamic Rule data active for the selected target
 - **Workflow State** = Any enter/exit times for Workflows affecting the selected target

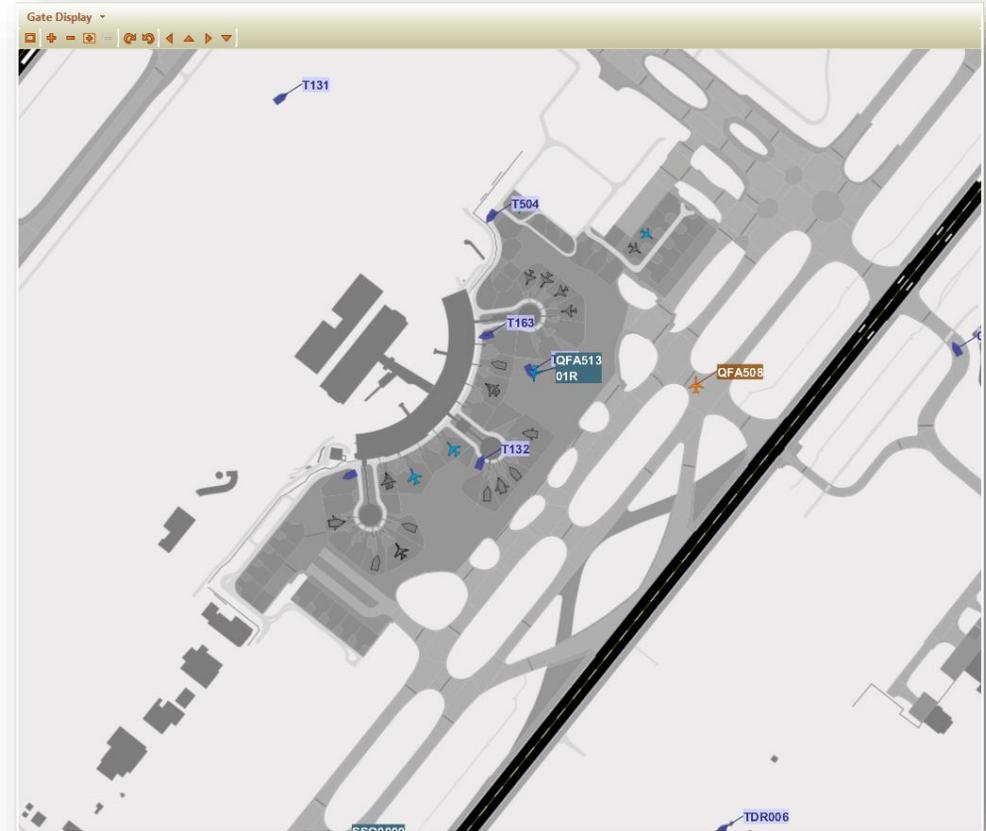


Field	Value
Actual Take Off Time (Aerobahn)	23:24
Actual Off Block Time (Aerobahn)	23:17
Operational State	Enroute Out
Actual Landing Time (Aerobahn)	
Actual In Block Time (Aerobahn)	
Mode 3/A (Aerobahn)	1011
Mode S	7C2BC5
Aircraft/Vehicle Type (Aerobahn)	B738
Flight ID (Aerobahn)	VOZ932

Map Displays (1/3)

Gate Display

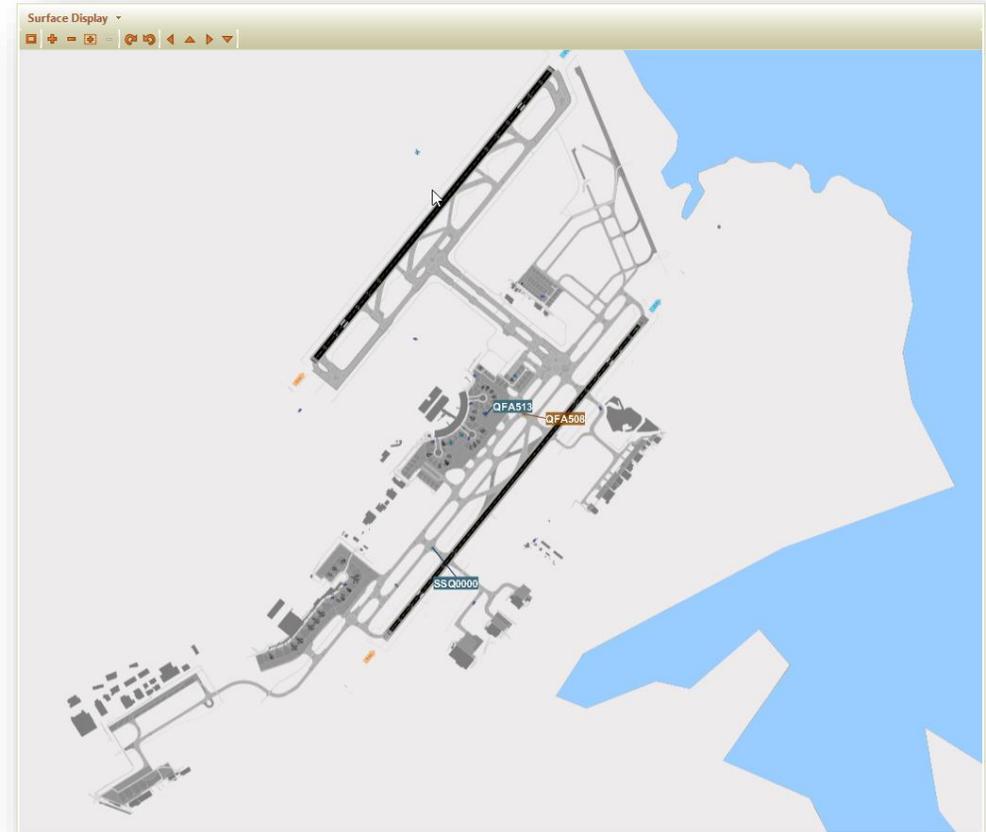
- View of the aerodrome gates along with active and persisted aircraft.
- Left Mouse Button/Click
 - Click – Select Target
 - Hold and drag – Move Map
- Center Scroll Wheel
 - Forward – Zoom in
 - Back – Zoom out
 - Hold and drag – Move Map while maintaining target selection
- Right Mouse Button/Click
 - Click – Various menu options



Map Displays (2/3)

Surface Display

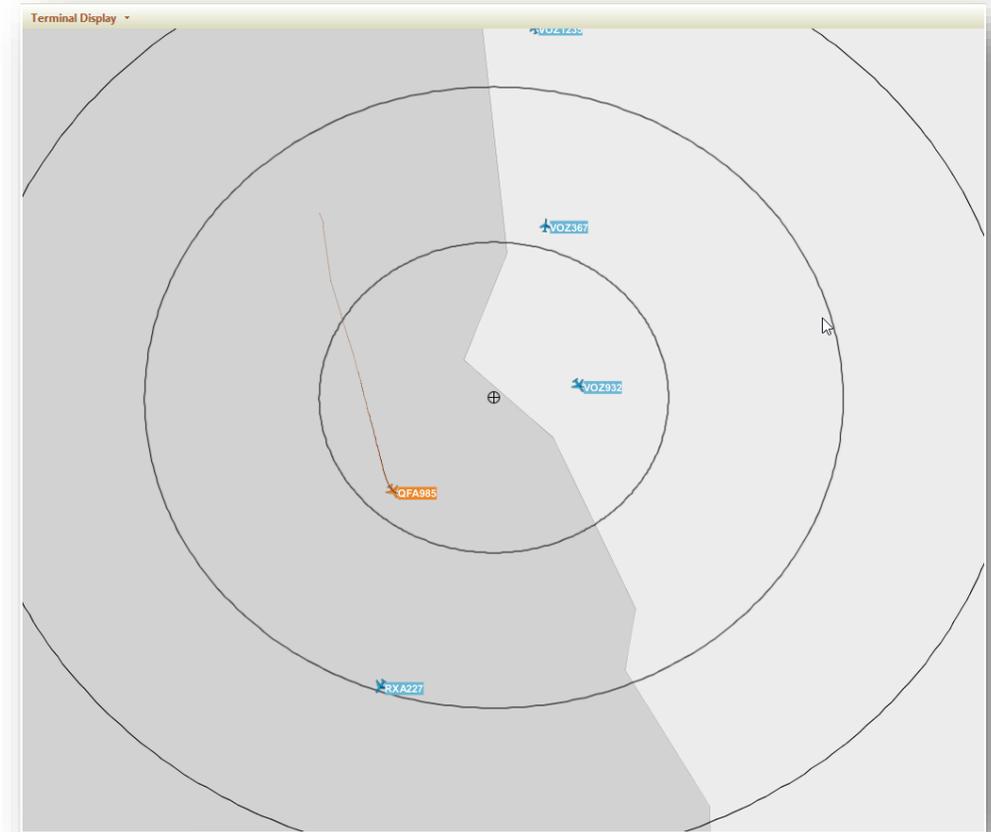
- View of the entire aerodrome surface along with active and persisted aircraft.
- Uses same controls as other Map Displays.



Map Displays (3/3)

Terminal Display

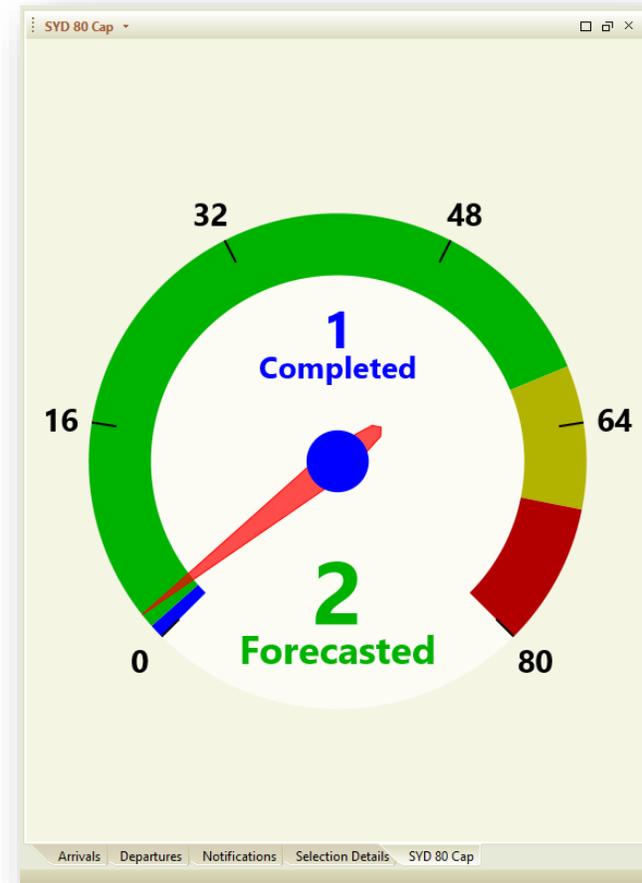
- Displays a distant view of Enroute aircraft to BNE.
- Uses same controls as other Map Displays.



SYD 80 Cap

SYD 80 Cap

- The SYD 80 Cap tool is only available in the common workspace for SYD Airport.
- This tool will display a count of the completed and forecasted arrivals/departures at SYD Airport in a rolling hour, with the maximum count of operations set to 80.



A-CDM Airline Workspaces

BASIC FUNCTIONALITY

Airline Partner Workspace

- Each Airline Partner will have their own version of the Airline Workspace centric to their airline(s).
- Each partner will be able to modify their workspaces based on operational needs.
- The following slides explain the individual tools (basic) that can be found within the Airline Workspace.

The screenshot displays the Aerobahn software interface for Brisbane Airport. The top navigation bar includes 'System', 'Workspace', 'Settings', 'Tools', 'Reporting', and 'Help'. The main interface is divided into several sections:

- Summary Dashboard:** Shows various operational metrics with colored indicators:
 - CTOT: 4
 - E/TOBT Alert: 0
 - TOBT: 5
 - TOBT Win: 3
 - Miss TOBT Warning: 0
 - TSAT Lost: 0
 - ARDT/no ASAT: 1
 - ASAT/no AOBT: 0
 - CTOT/TTOT Conflict: 0
 - Time: 20:04:29 UTC
 - O1L-19R Q: 6
 - O1R-19L Q: 0
- ACDM Flights Table:** A large table listing flight details including Flight ID, E/AL, E/AIB, Flt ID (Aer...), Reg (Aer...), AC Type, Dest, SOBT (A...), EOBT (Car...), EOBT (A...), Stand., TOBT (A...), ARDT (A...), TSAT, ASAT (Aero), AOBT (A...), TTOT (ACDM), and CTOT (Aer...).
- Map:** A geographical map showing flight paths and airport locations.
- A-CDM Milestone Profile:** A horizontal timeline showing operational milestones from 1 to 16, including 'Schedule Received', 'Flight Plan Submission', 'ATO/T from Originating Airport', 'Sequenced for Arrival', 'Metro update (STAR allocation)', 'Boarding Starts', and 'ASAT'.
- CDM Operational Status:** A section showing 'ADEP Gate' and 'ADES Gate' with 'E/ATOT' and 'E/AOBT' indicators.

Non-Partner Airline & Ground Handler Workspace

- Each Non-Partner Airline and Ground Handler / FBO will use the <AIRPORT> General Workspace which can be configured for the carriers they are responsible for.
- The following slides explain the individual tools (basic) that can be found within the Non-Partner Airline & Ground Handler Workspace.

The screenshot displays the Aerobahn software interface for Brisbane Airport. The top navigation bar includes 'System', 'Workspace', 'Settings', 'Tools', 'Reporting', and 'Help'. The main interface is divided into several sections:

- Summary Metrics:** A row of buttons showing counts for various metrics: CTOT (9), E/TOBT Alert (0), TOBT (14), TOBT Window (1), Miss TOBT Warning (0), Lost TSA1 (3), ARDT/no ASAT (0), ASAT/no AOBT (1), and CTOT/TTOT Conflict (1). The current time is 19:36:30 UTC.
- ACDM Flights Table:** A table listing flight details for several carriers.

Flight ID	E/AL	E/AIB	Flt ID (Aer)	Reg (Aer)	AC Type	Dest	SOBT (Aer)	EOBT (Car)	EOBT (Aer)	Stand	TOBT (Aer)	ARDT (Aer)	TSAT	ASAT	AOBT (Aer)	TTOT (ACDM)	CTOT (Aer)
KAL407	(20.48)	(20.58)	KAL408	HL8025	333	ICN	22.30		22.30	78	(22.30)	(22.30)				22.37	
ACA035	(21.02)	(21.10)	ACA036	CP94X	789	YVR	00.20			79	(00.20)	(00.20)				00.37	
UAL098	(20.15)	(20.23)	UAL097	N78002	772	SFO	00.30			80	(00.30)	(00.30)				00.37	
PAL221	(23.28)	(23.35)	PAL222	RPC8935	328	MNL	01.15		01.15	73B	(01.15)	(01.15)				01.22	
CAL053	(00.34)	(00.41)	CAL053	B18902	359	AKL	02.55			82	(02.55)	(02.55)				03.02	
			QTR899		77W	DOH	12.10			80	(12.10)	(12.10)				12.17	
CAL054	(10.45)	(10.52)	CAL054	B18902	359	TPE	12.50			82	(12.50)	(12.50)				12.57	
- Surface Display:** A map view of the airport terminal with various gates and flight paths indicated.
- A-CDM Milestone Profile:** A timeline showing the sequence of events for a flight, including 'Flight Plan Submission', 'ATO from Originating Airport', 'Metro update (STAR allocation)', 'ALDT', 'NBT', 'TOBT', 'TSAT', 'Boarding Starts', 'ARDT', 'ASAT', and 'AOBT'. The timeline is divided into 'INBOUND' and 'OUTBOUND' phases.

Airline / GH Workspace – Flight Lists

ACDM Flights Tab:

- Contains a list of all ACDM Flights for the specific airline/ground handler.

All ACDM Flights Tab:

- All ACDM Flights active in the system.
- Allows Airline/Ground Handler to see where their flights are sequenced relative to all flights.

Arrivals Tab:

- All arrivals currently active in the system.

Departures Tab:

- All departures currently active in the system.

Susp/Suffix S/T:

- List of flights that are currently suspended, swapped, or tactical release.

Flight ID (...)	E/AL...	E/ALB...	Flt ID (Aer...	Reg (Aero)	AC Type (...)	Dest	SOBT (A...	EOBT (Car...	EOBT (... ^ 2	Stand...	TOBT (A...	ARD...	TSAT... ^ 1	ASAT (Aero)	AOBT (...)	TTOT (ACDM)	CTOT (...)	Flow ...
VOZ973	08:27	08:30	VOZ306	VHVUW	73H	MEL	20:05	20:05	20:05	44A	20:05		20:05				20:18	
VOZ353	12:14	12:20	VOZ908	VHVUO	73H	SYD	20:05	20:05	20:05	40A	20:05	20:01	20:05				20:16	
VOZ471	13:33	13:41	VOZ361	VHVUH	73H	TSV	20:10	20:10	20:10	47	20:10	19:58	20:10	19:59	20:00		20:16	
VOZ1642	10:08	10:10	VOZ771	VHLW	73H	CNS	20:10	20:10	20:10	46	20:10	20:00	20:10				20:25	
VOZ382	09:57	10:05	VOZ601	VHKWO	100	MKY	20:10	20:10	20:10	41	20:10		20:12				20:24	
UTY9821	12:34	12:43	VOZ1231	VHYIT	73H	ROK	20:35	20:35	20:35	43	(20:35)		(20:35)				20:49	
VOZ1407	13:59	14:06	VOZ912	VHVBZ	73W	SYD	20:35	20:35	20:35	40B	(20:35)		(20:35)				20:48	
			VOZ1255	VHQQW	F70	EMD	20:45	20:45	20:45	49	(20:45)		(20:45)				20:58	
VOZ1405	10:27	10:29	VOZ916	VHYFW	73H	SYD	21:05	21:05	21:05	44B	(21:05)		(21:05)				21:18	
VOZ473	19:54	(20:02)	VOZ920	VHYVD	73H	SYD	21:35	21:35		39	(21:35)		(21:35)				21:48	
VOZ303	(21:04)	(21:12)	VOZ314	VHYIO	73H	MEL	21:55	21:55		40A	(21:55)		(21:55)				22:08	
VOZ901	(20:13)	(20:20)	VOZ924	VHRQP	73H	SYD	22:05			41	(22:05)		(22:05)				22:18	
VOZ913	(21:34)	(21:42)	VOZ775	VHVUP	73H	CNS	22:40			44B	(22:40)		(22:40)				22:53	
VOZ362	(21:33)	(21:41)	VOZ1388	VHYFX	73H	ADL	22:45			44A	(22:45)		(22:45)				22:59	
VOZ1232	(22:07)	(22:15)	VOZ367	VHUGF	100	TSV	22:50			49	(22:50)		(22:50)				23:05	
VOZ1207	(21:03)	(21:11)	VOZ1210	VHNBP	73W	CBR	22:50			40B	(22:50)		(22:50)				23:05	
VOZ118	06:51	06:55	VOZ117	VHYZ	73H	ZQN	22:55			73A	(22:55)		(22:55)				23:02	
VOZ1385	(21:42)	(21:50)	VOZ605	VHVUT	73H	MKY	23:00			48	(23:00)		(23:00)				23:13	
VOZ770	(21:47)	(21:54)	VOZ932	VHYL	73H	SYD	23:05			39	(23:05)		(23:05)				23:18	
VOZ600	(21:52)	(22:00)	VOZ464	VHVUX	73H	PER	23:10			47	(23:10)		(23:10)				23:23	23:17
VOZ1107	07:44	07:48	VOZ1102	VHFGB	100	NTL	23:15			45A	(23:15)		(23:15)				23:28	
VOZ309	(22:03)	(22:11)	VOZ447	VHREX	73H	DRW	23:20			40A	(23:20)		(23:20)				23:33	
VOZ050	12:57	13:06	VOZ045	VH8IE	7M8	DPS	23:30			74B	(23:30)		(23:30)				23:37	
VOZ917	(22:19)	(22:29)	VOZ702	VHMY	73H	HBA	23:40			46	(23:40)		(23:40)				23:53	
VOZ981	09:32	09:35	VOZ175	VHYIE	73H	NAN	23:40			75B	(23:40)		(23:40)				23:47	
VOZ1101	(22:49)	(22:56)	VOZ1235	VHUGG	100	ROK	23:40			43	(23:40)		(23:40)				23:54	
VOZ909	(21:12)	(21:19)	VOZ075	VH8IC	7M8	APW	23:55			75A	(23:55)		(23:55)				00:02	
VOZ313	(22:59)	(23:06)	VOZ322	VHYIQ	73H	MEL	23:55			39	(23:55)		(23:55)				00:08	
VOZ999	11:54	11:57	VOZ1495	VHNHW	73W	HTI	00:00			41	(00:00)		(00:00)				00:13	
VOZ925	(23:19)	(23:28)	VOZ938	VHYFE	73H	SYD	00:05			40B	(00:05)		(00:05)				00:18	
VOZ469	10:01	10:09	VOZ053	VH8IA	7M8	VLI	00:40			74A	(00:40)		(00:40)				00:47	
VOZ1234	(23:37)	(23:56)	VOZ324	VHYIT	73H	MEL	00:55			48	(00:55)		(00:55)				01:08	
UTY2833	(23:46)	(00:05)	VOZ1239	VHNUU	F70	ROK	00:55			49	(00:55)		(00:55)				01:08	
VOZ931	(00:19)	(00:26)	VOZ371	VHVZ	73W	TSV	01:20			39	(01:20)		(01:20)				01:33	
VOZ1213	(00:44)	(00:51)	VOZ609	VHUGW	100	MKY	01:35			41	(01:35)		(01:35)				01:48	
VOZ319	(23:59)	(00:18)	VOZ783	VHMQ	73H	CNS	01:40			47	(01:40)		(01:40)				01:53	
VOZ927	(23:49)	(23:58)	VOZ326	VHYFV	73H	MEL	01:55			43	(01:55)		(01:55)				02:08	
VOZ321	(00:59)	(01:06)	VOZ946	VHVUL	73H	SYD	02:05			40B	(02:05)		(02:05)				02:18	
VOZ776	(01:27)	(01:44)	VOZ466	VHLW	73H	PER	02:25			39	(02:25)		(02:25)				02:38	02:35
UTY4073	(01:36)	(01:45)	VOZ1243	VHQGR	F70	ROK	02:55			49	(02:55)		(02:55)				03:08	
VOZ935	(01:19)	(01:36)	VOZ1394	VHYVD	73H	ADL	03:05			40A	(03:05)		(03:10)				03:18	
VOZ366	(00:41)	(00:50)	VOZ1117	VHVUH	73H	PPP	03:10			46	(03:10)		(03:10)				03:24	
VOZ1238	(02:42)	(02:49)	VOZ1025	VHUGG	100	ASP	02:15	03:20		41	(03:20)		(03:20)				03:33	
VOZ1105	(02:24)	(02:31)	VOZ1104	VHFGB	100	NTL	03:25			43	(03:25)		(03:25)				03:38	

Airline / GH Workspace – Flight Lists (Departures)

Flight ID I...	E/AL...	E/AIB...	Ft ID (Aer...	Reg (Aero)	AC Type (...)	Dest	SOBT (A...	EOBT (Car...	EOBT (... ↑ 2	Stand...	TOBT (A...	ARDT (A...	TSAT... ↑ 1	ASAT (Aero)	AOBT (...)	TTOT (ACDM)	CTOT (...)	Flow ...
VOZ321	01:43	01:45	VOZ946	VH8IC	7M8	SYD	02:05	02:57	03:12	46	02:57	02:55	02:57	02:55	02:57	03:10		
VOZ323	02:19	02:22	VOZ328	VHRQP	73H	MEL	02:55	03:10	02:55	40B	03:10		03:05			03:21		
VOZ1232	22:15	22:22	VOZ1243	VHNUU	F70	ROK	02:50	03:10	02:50	27	03:10	03:06	03:10	03:07	03:07	03:22		
VOZ935	01:47	01:50	VOZ1394	VHYIF	73H	ADL	03:05	03:10	03:05	45A	03:10		03:10			03:23		
VOZ1238	01:49	01:59	VOZ1104	VHUQB	100	NTL	03:15	03:15	03:15	41	03:15		03:15			03:28		
VOZ382	10:50	11:00	VOZ1275	VHQQY	F70	ISA	03:25	03:25	03:25	48	03:25		03:25			03:38		
VOZ1393	02:32	02:39	VOZ332	VHIJQ	73H	MEL	03:55	03:55	03:55	39	(03:55)		(03:55)			04:08		
VOZ1105	02:40	02:44														08		
VOZ1217	02:57	03:00														18		

Columns included on both ACDM Flights, All ACDM Flights & Departures Tabs

Inbound Flight:

- Flight ID Inbound
- E/A Landing Time Inbound (Aerobahn)
- E/A In Block Time Inbound (Aerobahn)

Outbound Flight:

- Flight ID (Aerobahn)
- Registration (Aerobahn)
- Aircraft/Vehicle Type (Aerobahn)
- Destination Airport
- Scheduled Off Block Time (Aerobahn)

Outbound Flight (cont'd):

- Estimated Off Block Time (Carrier)
- Estimated Off Block Time (ATC)
- Stand Assigned (Aerobahn)
- Target/(Target Auto) Off Block Time (Aerobahn)
- Actual Ready Time (Aerobahn)
- Target/(Target Auto) Startup Approval Time (Aerobahn)
- Actual Startup Approval Time (Aerobahn)
- Actual Off Block Time (Aerobahn)
- Target Take off Time (ACDM)
- Calculated Takeoff Time (Aerobahn)
- Status Light: Flow Restricted

Airline / GH Workspace – Flight Lists (Arrivals)

Flt ID (Aero)	AC Type (Aero)	Reg (Aero)	Orig	Stand Asgn (Aero)	Stand Asgn (Aero) ...	Flt Orig Date	SIBT (Aero)	E/ALDT (Aero)	E/AIBT (Aero) ↑ ↓
QFA016	A332	VHEBV	LAX			11/06/2024	19:00	18:42	18:49
UAE434	388	A6EOG	DXB	75	Unoccupied	11/05/2024	20:30	21:00	21:17
ACA035	789	CFGDZ	YVR	82	Occupied	11/05/2024	22:40	22:21	22:31
QLK823	DH8D	VHQOH	MOV			11/06/2024	03:30	03:37	03:42
VOZ1240	F70	VHNUO	ROK	47	Occupied	11/06/2024	04:00	04:04	04:09
VOZ469	73H	VH8IF	PER	39	Occupied	11/06/2024	09:55	04:05	04:10
QLK2539	DH4	VHQOC					04:40	04:16	04:22

Columns included on Arrivals Tab

Inbound Flight:

- Flight ID Inbound
- E/A Landing Time Inbound (Aerobahn)
- E/A In Block Time Inbound (Aerobahn)

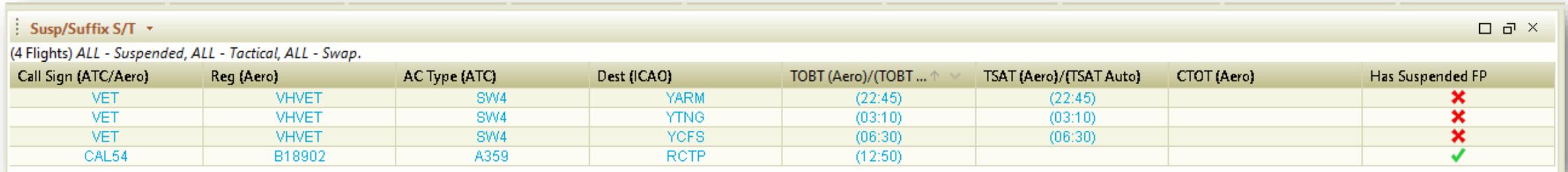
Outbound Flight:

- Flight ID (Aerobahn)
- Registration (Aerobahn)
- Aircraft/Vehicle Type (Aerobahn)
- Destination Airport
- Scheduled Off Block Time (Aerobahn)

Outbound Flight (cont'd):

- Estimated Off Block Time (Carrier)
- Estimated Off Block Time (ATC)
- Stand Assigned (Aerobahn)
- Target/(Target Auto) Off Block Time (Aerobahn)
- Actual Ready Time (Aerobahn)
- Target/(Target Auto) Startup Approval Time (Aerobahn)
- Actual Startup Approval Time (Aerobahn)
- Actual Off Block Time (Aerobahn)
- Target Take off Time (ACDM)
- Calculated Takeoff Time (Aerobahn)

Airline / GH Workspace – Susp/Suffix S/T



Call Sign (ATC/Aero)	Reg (Aero)	AC Type (ATC)	Dest (ICAO)	TOBT (Aero)/(TOBT ... ↑ ↓)	TSAT (Aero)/(TSAT Auto)	CTOT (Aero)	Has Suspended FP
VET	VHVET	SW4	YARM	(22:45)	(22:45)		✘
VET	VHVET	SW4	YTNG	(03:10)	(03:10)		✘
VET	VHVET	SW4	YCFS	(06:30)	(06:30)		✘
CAL54	B18902	A359	RCTP	(12:50)			✔

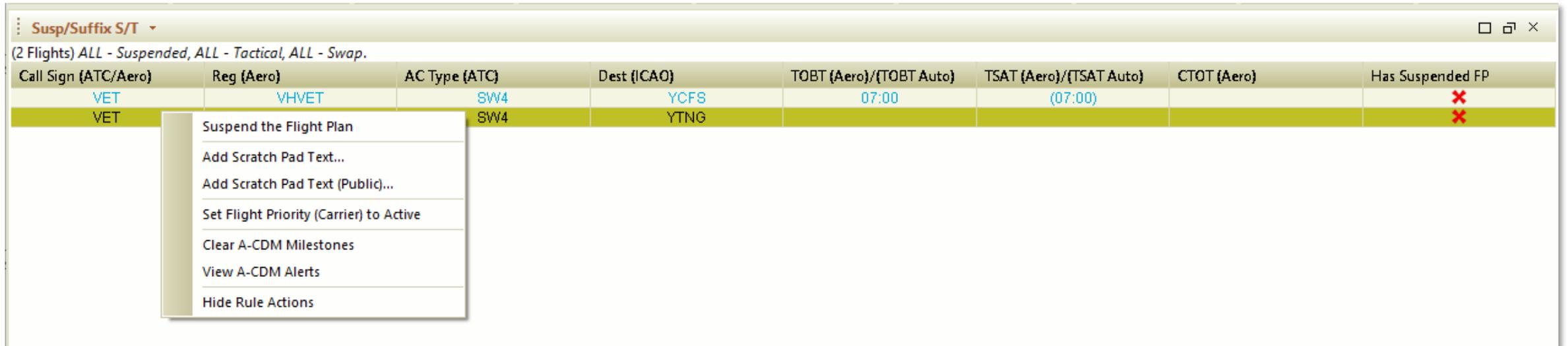
This watchlist is used to easily identify flights created by Harmony for COBT swaps between carriers, and tactical releases.

These flights create a flight plan in Aerobahn that consumes a slot in the PDS. It is the airline's responsibility to suspend/cancel flights within Aerobahn to remove these flights from the PDS.

- **Swap Flights (S):** Flights with a Call Sign ending with "S"
- **Tactical Flights (T):** Flights with a Call Sign ending with "T"

**Note: All flights with Call Signs ending in S, and T are included in Flight Watchlist View. Some may not be flights that are part of a Swap or Tactical Release.*

Airline / GH Workspace – Susp/Suffix S/T



The screenshot shows a software interface window titled "Susp/Suffix S/T". Below the title bar, there is a summary text: "(2 Flights) ALL - Suspended, ALL - Tactical, ALL - Swap." The main area contains a table with the following columns: Call Sign (ATC/Aero), Reg (Aero), AC Type (ATC), Dest (ICAO), TOBT (Aero)/(TOBT Auto), TSAT (Aero)/(TSAT Auto), CTOT (Aero), and Has Suspended FP. Two rows of flight data are visible, both highlighted in yellow. The first row has Call Sign VET, Reg VHVET, AC Type SW4, Dest YCFS, TOBT 07:00, TSAT (07:00), and a red 'X' in the Has Suspended FP column. The second row has Call Sign VET, Reg SW4, AC Type YTNG, and a red 'X' in the Has Suspended FP column. A context menu is open over the first row, listing actions: Suspend the Flight Plan, Add Scratch Pad Text..., Add Scratch Pad Text (Public)..., Set Flight Priority (Carrier) to Active, Clear A-CDM Milestones, View A-CDM Alerts, and Hide Rule Actions.

Call Sign (ATC/Aero)	Reg (Aero)	AC Type (ATC)	Dest (ICAO)	TOBT (Aero)/(TOBT Auto)	TSAT (Aero)/(TSAT Auto)	CTOT (Aero)	Has Suspended FP
VET	VHVET	SW4	YCFS	07:00	(07:00)		X
VET		SW4	YTNG				X

Suspending a flight – NOMC & Airline

- To suspend a flight, select the flight and choose “Suspend the Flight Plan” from right click context menu.
- All flights that have been actively suspended within Aerobahn will have a green check mark in the “Has Suspended FP” column.
- Suspended flights remain active in the system but are not sequenced in the PDS. These flights will not have a TSAT or TTOT.

Airline / GH Workspace – Susp/Suffix S/T

Scheduled Flight Management

As of 02/04/2025 02:58:13

All Flights Auto Refresh Off View flights scheduled for: Next Hour Refresh

Direction	Call Sign (Aero)	Ship # (Carrier)	AC Type (Aero)	Orig	Dest	Stand Asgn (Aero)	SOBT (Aero)	E/AOBT (Aero)	E/ATOT (Aero)	SIBT (Aero)	E/AIBT (Aero)	E/ALDT (Aero)	Flt Route	First Fix	Last Arr Fix	Cancelled?
Arrival	VOZ76		7M8	APW	BNE	77	21:15	20:53	21:04	03:15	02:17	02:13	NSFA..ODUMA.A...	ZZZZ	UGTUG	False
Arrival	JST816		320	SYD	BNE	28	23:35	01:52	02:04	01:05	{03:20}	{03:20}	YSSV..OLSEM.Y19...	ENTRA	GOMOL	False
Arrival	QFA934		73H	PER	BNE	23	23:45	23:39	23:47	04:05	{04:05}	{03:57}	YPPH..AMANA.Y...	AMANA	ENLIP	False
Arrival	VOZ9908		73H	TSV	BNE	44A	02:00	{23:30}	{23:34}	03:45	{02:18}	{01:11}		ZZZZ	SMOKA	False
Arrival	JST756		32N	HBA	BNE	38	00:35	00:28	00:38	03:20	{03:15}	{03:07}	YMHB..LATUM.H...	ZZZZ	BLAKA	False
Arrival	QFA2361		DH4	ROK	BNE		00:40	{02:00}	{02:30}	02:00	{02:00}	{03:29}	YBRK..RKV111.B...	ZZZZ	MORBI	True
Arrival	UTY8607		F70	BBL	BNE		00:45	01:28	01:33	02:45	{03:24}	{03:15}	YLLE..LEPTA..RO...	ZZZZ	SMOKA	False
Arrival	VOZ1272		100	ISA	BNE	43	00:50	01:40	01:51	03:15	{04:13}	{04:05}	YBMA..SARIK.J89...	ZZZZ	SMOKA	False
Arrival	VOZ327		73H	MEL	BNE	40A	01:10	01:13	01:49	03:20	{03:51}	{03:43}	YMML..NONIX.H...	NONIX	BLAKA	False
Arrival	QFA616		73H	MEL	BNE	24	01:15	01:36	02:00	03:30	{04:08}	{04:00}	YMML..NONIX.H...	NONIX	BLAKA	False
Arrival	FCX9134		SF3	OAG	BNE	50	01:20	{01:43}	01:37	03:00	{03:39}	{03:31}	YORG..VIRUR..M...	ZZZZ	GOMOL	False
Arrival	VOZ1217		73W	CBR	BNE	45A	01:20	01:17	01:25	03:00	{03:07}	{02:58}	YSCB..AVBEG.W1...	VICKI	BLAKA	False
Arrival	PEV441		J532	NTL	BNE	*LA	01:20	{01:12}	01:06	03:00	02:57	02:51	YWLM..WLM.V53...	ZZZZ	BLAKA	False
Arrival	VOZ1105		100	NTL	BNE	39	01:20	02:34	02:41	02:40	{03:57}	{03:49}	YWLM..UBSON.....	ZZZZ	GOMOL	False
Arrival	QFA1863		E90	TSV	BNE	17	01:40	01:37	01:49	03:30	{03:30}	{03:22}	YBTL..JEMMA.W2...	ZZZZ	SMOKA	False
Arrival	VOZ372		100	TSV	BNE	41	01:40	02:08	02:20	03:40	{04:02}	{03:56}	YBTL..JEMMA.W2...	ZZZZ	SMOKA	False
Arrival	QFA1873		E90	CNS	BNE	16	01:45	01:48	02:03	03:55	{04:07}	{03:59}	YBCS..AKROM.Y1...	ZZZZ	SMOKA	False
Arrival	VOZ943		73W	SYD	BNE	40B	02:00	01:55	02:14	03:30	{03:41}	{03:33}	YSSV..OLSEM.Y19...	ENTRA	GOMOL	False
Arrival	UTY8609		F70	RMA	BNE	47	02:00	01:59	02:03	03:15	{02:58}	02:49	YROM..IDLEG.V32...		SMOKA	False
Arrival	JST833		320	PPP	BNE	30	02:05	02:05	02:11	03:35	{03:34}	{03:26}	YBPN..PN.V495.C...	ZZZZ	SMOKA	False

Cancel Flight

Cancelling a flight – Airline

- Cancelling a flight in Aerobahn must be done in the Scheduled Flight Management Tool.
- Select the flight and then click **Cancel Flight**.
- Once a flight is cancelled in the Scheduled Flight Management (SFM) tool, it will be removed from the system and no longer displayed in the watch list. It will be visible only in the SFM tool.

Airline / GH Workspace – TOBT / TSAT / TTOT

The screenshot shows the Aerobahn software interface for Brisbane Airport. The main window displays a flight data table with columns for SOBT (Auto Off Block Time), EOBT (Estimated Off Block Time), TOBT (Target Off Block Time), ARDT (Actual Release Time), TSAT (Target Start of Taxi), and TTOT (Target Time of Taxi). A red box highlights the TOBT column, and a blue box highlights the TSAT and TTOT columns. A large digital clock shows 03:37:26 UTC. On the right, there are buttons for 'TOBT Auto' and 'TTOT /TSAT/TSAT Auto'. The interface also includes a top menu bar, a toolbar, and several data windows.

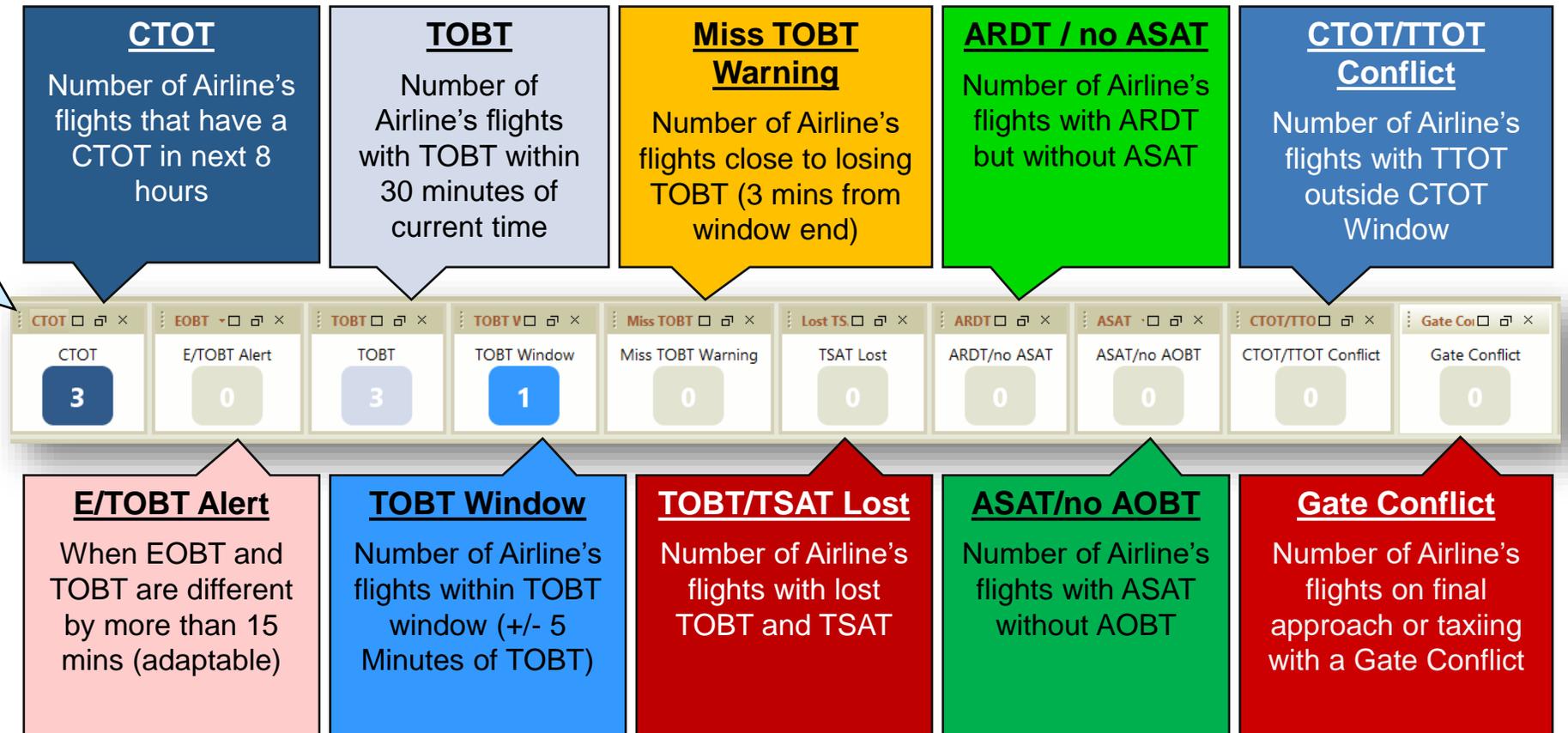
- TOBT/TOBT Auto**
- Target Auto Off Block Time is indicated with parenthesis ().
 - TOBT Auto transitions to a TOBT automatically at later of ALDT, ETD/EOBT/SOBT -30 Minutes
 - Flights with TOBT do not have parenthesis ().
 - AO/GH will manually update TOBT if flight will not be able to call ready within +/- 5 minutes of its TOBT Window

- TTOT /TSAT/TSAT Auto**
- PDS uses TOBT to calculate flight's TTOT and TSAT/TSAT Auto
 - TSAT Auto is indicated with parenthesis ().
 - TSAT Auto transitions to a TSAT automatically at 30 minutes prior to TSAT Auto
 - TSAT does not have parenthesis ().
 - Aircraft will be told to pushback or taxi in the TSAT window.

Airline / GH Workspace – Watch List Counters

A-CDM Watch List Counters:

- All A-CDM counters include only flights handled by the specific airline/ground handler.



Airline / GH Workspace – Colour Keys

A-CDM Colour Key

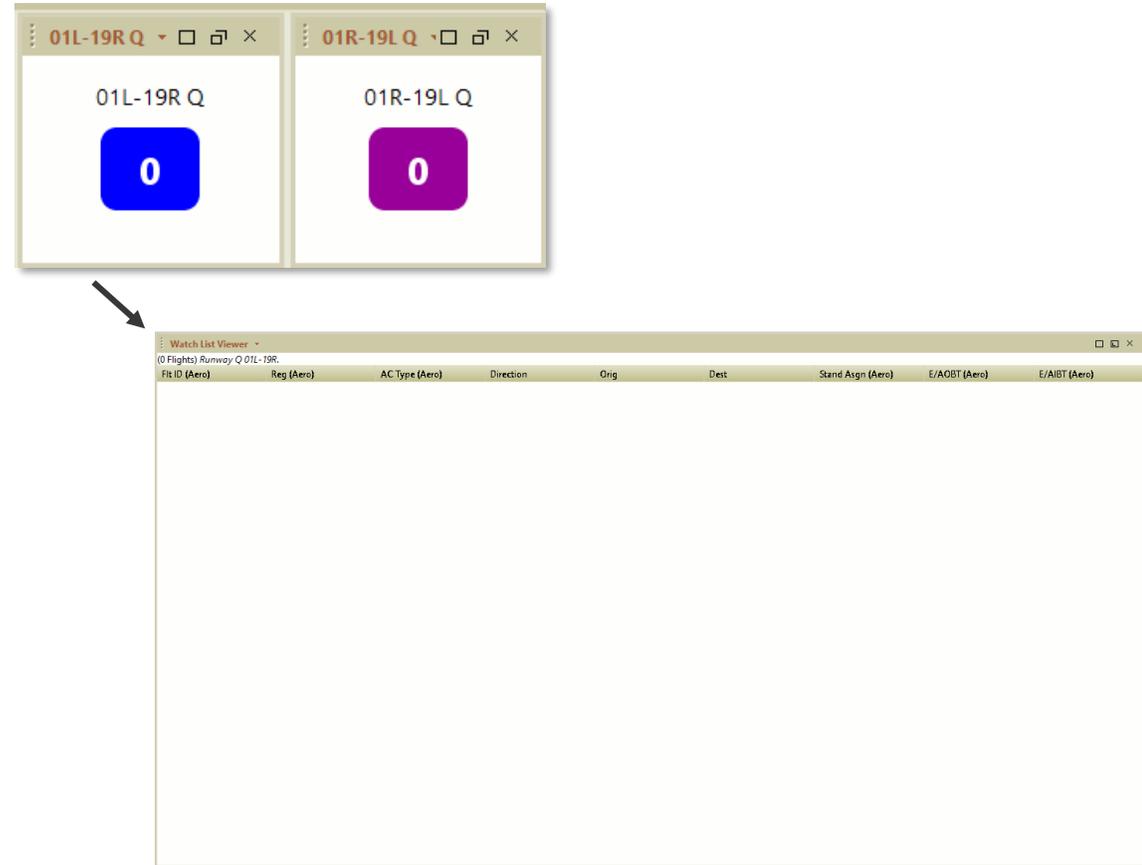
- All A-CDM counters and columns in watchlist viewers are colour coordinated according to the following key (see right).

	CTOT
	E/TOBT Alert
	TOBT
	TOBT Window
	Miss TOBT Warning
	TOBT/TSAT Lost
	ARDT/no ASAT
	ASAT/no AOBT
	CTOT/TTOT Conflict
	Gate Conflict
	TSAT Window
	Late ASAT
	Data Field Changed

Airline / GH Workspace – Runway Queue Counters

Runway Queue Counters:

- Number of departures currently taxiing to each runway.
- These counters includes ALL flights not just those specific to the airline.
- To see which flights are taxiing to each runway, simply click on the counter number and it will launch a list of the flights.



Airline / GH Workspace – Map Displays

Map Display

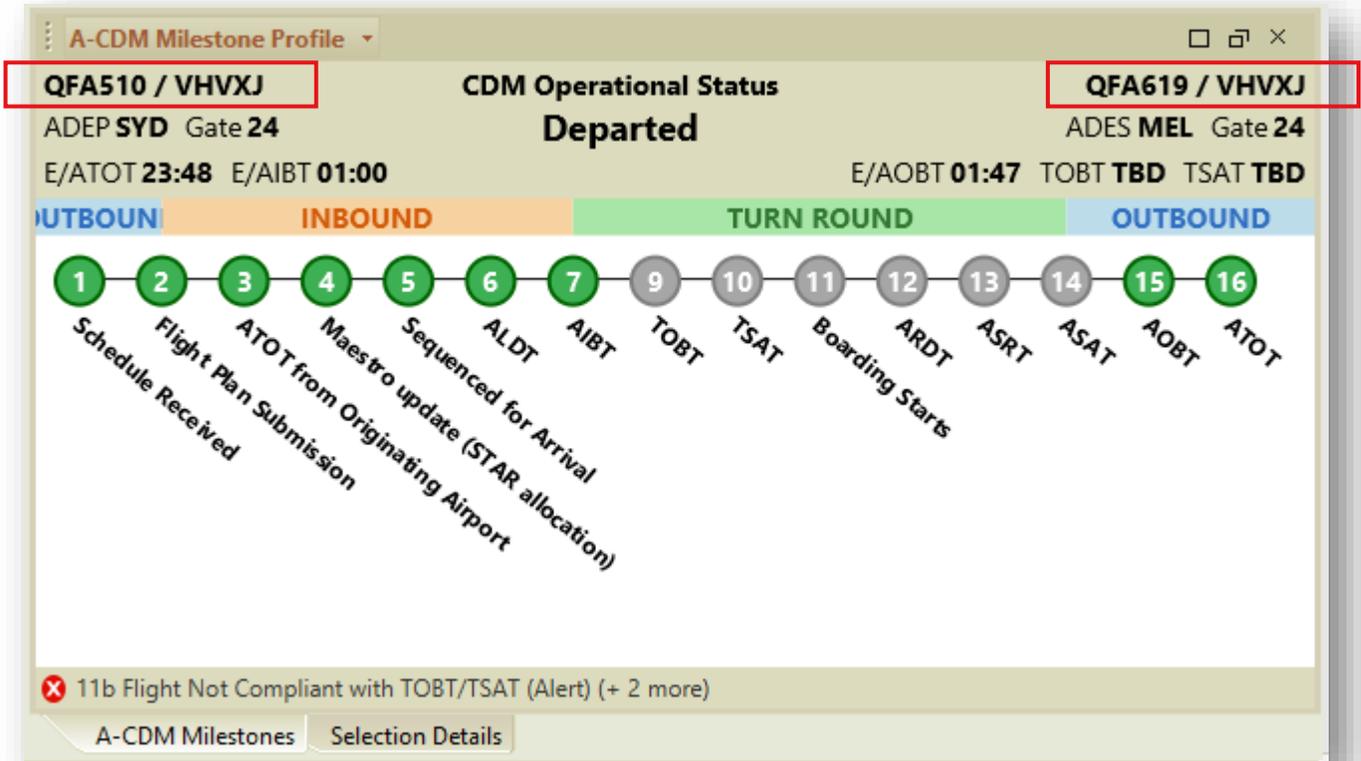
- Situational Awareness at **Surface**, **Gate**, and **Terminal** zoom levels.
- View of the aerodrome with active and persisted aircraft.
- Actions available:
 - Left Mouse Button/Click
 - Click – Select Target
 - Hold and drag – Move Map
 - Center Scroll Wheel
 - Forward – Zoom in
 - Back – Zoom out
 - Hold and drag – Move map while maintaining target selection
 - Right Mouse Button/Click
 - Click – Various menu options



Airline / GH Workspace – Milestone Profile

A-CDM Milestone Profile

- Milestones turn green as the flight meets each milestone
- Flight listed in upper left is arrival flight (QFA510 in screenshot)
- Flight listed in upper right is departure flight (QFA619 in screenshot)
- Left clicking on arrival or departure flight will highlight flight on all tools in the workspace.



Airline / GH Workspace – Selection Details

Selection Details

- Provides select information for a selected target – multiple tabs available:
 - **Properties** = Data for target flight
 - **Taxi Route** = Region by region path of aircraft
 - **Show Route on Map** = Display the highlighted taxi route path in the Map Display tools (i.e. the Surface Display)
 - **Active Rules** = Will show all Dynamic Rule data active for the selected target
 - **Workflow State** = Any enter/exit times for Workflows affecting the selected target

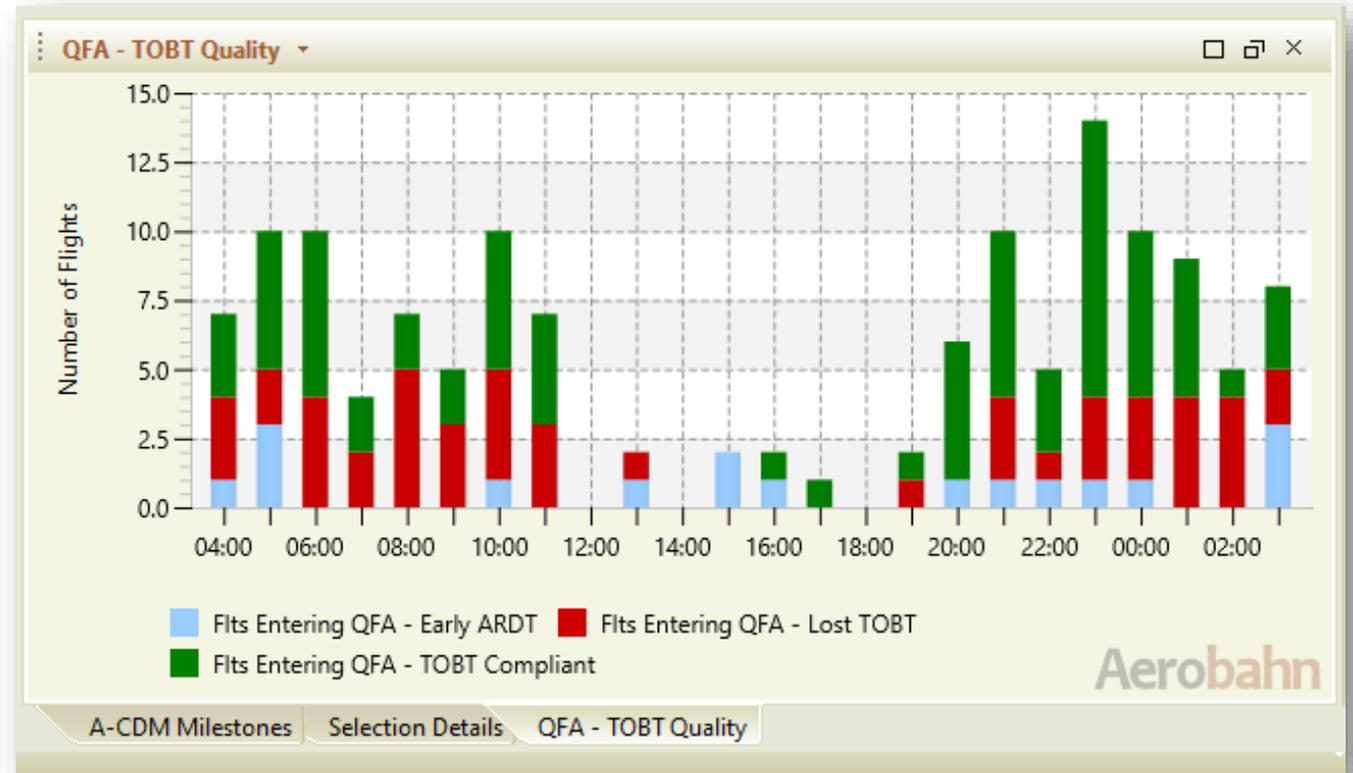
Field	Value
Actual Startup Request Time (Aerobahn)	
Actual Startup Request Time (Manual)	
Actual Take Off Time (ATC)	01:58
Actual Take Off Time (Aerobahn)	01:58
Actual Take Off Time (Carrier)	
Actual Take Off Time (Manual)	
Actual Take Off Time (Surveillance)	01:58
Actual Tow Duration (AODB)	
Actual Tow Duration (Aerobahn)	
Actual Tow Duration (Carrier)	
Actual Tow Duration (Manual)	
Actual Tow Duration (Surveillance)	

Airline (Partner) Workspace* – TOBT Quality Graph

TOBT Quality Graph

Graph indicating the TOBT Quality each hour for your airline (partner airlines only):

-  **Early ARDT** – number of flights with ARDT before the +/-5 minute TOBT window.
-  **TOBT Compliant** - number of flights with ARDT in the +/-5 minute TOBT window.
-  **Lost TOBT** – number of flights that did not receive ARDT in the +/- 5 minute TOBT window and TOBT was lost.



* This does not appear on the General (non-partner airline or ground handler) Workspace.

Operational Procedures (GPD / A-CDM)

How they are managed in the A-CDM Workspace

Flights subject to ATFM & Flow Restriction

A new ATFM Business Rule will be introduced for flights departing an A-CDM airport that are captured by both a GDP at the destination and a tactical flow restriction on departure managed through A-CDM

Additional Business Rule (A-CDM Procedures Manual 9.3 Table 8):

When a departure from an A-CDM airport is subject to both a GDP (CTOT) and tactical flow restriction (with a spacing of 5 minutes or larger), late non-compliance with the CTOT is allowed up to 30 mins. To use this extended compliance window, the CTOT shall not be prior to flight's TOBT.

This Business Rule is to prevent over-constraining of such flights when actions to attempt to comply with both constraints result in a flight being iteratively delayed.

Flights subject to ATFM & Flow Restriction

- Airlines/ground handlers are required to manage the late CTOT+30 Minute limit.
- Flow Restriction Status Light has been added to all workspaces.
 - Status is **grey** with no restriction
 - Status is **purple** with restriction

Flight ID In...	E/ALD...	E/AIBT...	Fit ID (Aero)	Reg (Aero)	AC Typ...	Dest	SOBT (A...	EOBT (Carr...	EOBT (ATC) ↑ 2	Stand ...	TOBT (Ae...	ARDT (Aero)	TSAT (A... ↑ 1	ASAT (Ae...	AOBT (Aero)	TTOT (A...	CTOT (A...	Flow ...	
QFA857	14:00	14:06	QFA654	VHXZO	73H	SYD	14:55		14:55	7									Grey
			JST979	VHVQL	320	CNS	15:10	15:15	15:15	20									Purple
CPA171	14:26	14:30	CPA140	BKPY	77W	HKG	16:15		16:15	155	(16:15)		(16:15)				16:27		Grey
HVN791	15:04	15:09	HVN790	VNA866	359	SGN	16:50		16:50	151	(16:50)		(16:50)				17:02		Grey
			SIA216		781	SIN	17:10			150	(17:10)		(17:10)				17:20		Grey
			BTK6081		320	CGK	17:20			152	(17:20)		(17:20)				17:32		Grey
			MXD156		7M8	KUL	17:50			153	(17:50)		(17:50)				18:02		Grey
MAS127	(17:22)	(17:30)	MAS126	9MMTJ	333	KUL	18:25		18:25	150	(18:25)		(18:25)				18:35		Grey
QFA655	13:31	13:35	QFA642	VHVXG	73H	SYD	21:05			7	(21:05)		(21:14)				21:24	21:29	Purple
QFA775	07:47	07:50	QFA770	VHVVJ	73H	MEL	21:20			18	(21:20)		(21:20)				21:29	21:30	Purple
			UAE425		77W	DXB	22:00			154	(22:00)		(22:00)				22:12		Grey
			JST857	VHOYD	32Q	ADL	22:00			156A	(22:00)		(22:00)				22:12		Grey
VOZ567	12:38	12:42	VOZ550	VHVOK	73H	SYD	22:00				(22:00)		(22:00)				22:10		Grey
			SND898	VHVOCJ	319	KYB	22:00										22:10		Grey
VOZ470	11:57	12:00	VOZ678	VHYIQ	73H	MEL	22:00										22:10		Grey
			SIA224		781	SIN	22:25										22:15	22:17	Purple
JST072	14:43	(15:33)	JST110	VHOFE	32Q	DPS	22:50										23:02		Grey
QFA649	06:54	06:58	QFA768	VHVXS	73H	MEL	23:10										23:20		Purple
VOZ721	11:22	11:29	VOZ712	VHVNB	320	ADL	23:15										23:25		Grey
QLK1603	09:15	09:17	QFA1652	VH8NS	319	BME	23:30			23	(23:30)		(23:30)				23:39		Grey
JST868	11:49	11:53	JST073	VHQQW	JET	HKT	23:40			20	(23:40)		(23:40)				23:49		Grey

Flow Restriction Status Light

- Purple indicates flights with a flow restriction

Flights subject to ATFM & Flow Restriction

Details of a flight's flow restriction is available on the **Flow Restrictions** tab in **Selection Details**

Steps:

1. Select the flight
2. Select the **Selection Details** tab
3. Select the **Flow Restrictions** tab
4. Details of the Flow Restriction indicates required spacing in minutes, when it started and when it is scheduled to finish.

The screenshot displays a flight management system interface. On the left, a table lists flight times and statuses. A red arrow points from a flight entry in the table to the 'Flow Restrictions' tab in the 'Selection Details' panel on the right. The 'Selection Details' panel shows the flight QFA770 and its flow restriction details.

TSAT (A...	ASAT (Ae...	AOBT (Aero)	TTOT (A...	CTOT (A...	Flow ...
		15:32			
(16:15)			16:27		
(16:50)			17:02		
(17:10)			17:20		
(17:20)			17:32		
(17:50)			18:02		
(18:25)			18:35		
(21:14)			21:24	21:29	
(21:20)			21:29	21:30	
(22:00)			22:12		
(22:00)			22:12		
(22:00)			22:10		
(22:00)			22:10		
(22:03)			22:15	22:17	
(22:25)			22:37		
(22:50)			23:02		
(23:10)			23:20		
(23:15)			23:25		
(23:30)			23:39		
(23:40)			23:49		
(23:45)			23:57		
(23:45)			23:55		
(00:40)			00:49		
(00:50)			01:00		
(01:00)			01:13		
(01:00)			01:10		
(01:10)			01:20		
(01:20)			01:32		
(01:25)			01:35		
(01:50)			01:59		
(02:15)			02:27		
(02:30)			02:40		
(02:30)			02:40		
(02:35)			02:44		
(02:40)			02:52		
(02:45)			02:55		
(03:20)			03:32		
(03:20)			03:32		
(03:25)			03:37		
(03:25)			03:42		
(03:35)			03:47		
(04:00)			04:09		
(04:10)			04:20		

The 'Selection Details' panel for flight QFA770 shows the following flow restriction details:

State	Restriction Name	Restricted From	Restricted Until
+	MEL, SYD - 5.0 minute...	03/29/2025 14:41	UFN

GDP Cancellation (CTOT Purge) – NOMC

- CTOTs cannot be cleared following a GDP cancellation
 - Aerobahn is unable to clear/remove/delete a CTOT from an external system
 - Aerobahn is able to overwrite an external system CTOT with a manual CTOT
- NOMC will perform this task in Aerobahn.

Steps:

1. NOMC to complete existing process and notifications for a GDP Purge.
2. In Aerobahn, NOMC to select singular or multiple flights to purge CTOT time.
3. Click “Set Purge CTOT” hotkey (set CTOT time of TOBT+5 minutes).
4. Manual CTOT is now equal to TOBT+5minutes, which has the effect of removing the CTOT and allowing the TTOT to be recalculated relative to the TSAT. Flights with manual CTOT have grey background.
5. To reverse this action, flight/s can be selected again and using “Clear Purge CTOT” hotkey, the original Harmony CTOT will be reinstated.

2

Call Sign (ATC/Aero)	Reg (Aero)	AC Type (ATC)	Dest (ICAO)	TOBT (Aero)/(TOBT ...)	TSAT (Aero)/(TSAT Au...)	CTOT (Aero)
QFA642	VHVXG	B738	YSSY	(21:05)	(21:14)	21:29
QFA770	VHYYJ	B738	YMML	(21:20)	(21:20)	21:30
VOZ678	VHYIQ		YMML	(22:00)	(22:03)	22:17

3

Set Purge CTOT Clear Purge CTOT

3

Call Sign (ATC/Aero)	Reg (Aero)	AC Type (ATC)	Dest (ICAO)	TOBT (Aero)/(TOBT ...)	TSAT (Aero)/(TSAT Au...)	CTOT (Aero)
QFA642	VHVXG	B738	YSSY	(21:05)	(21:14)	21:29
QFA770	VHYYJ	B738	YMML	(21:20)	(21:20)	21:25
VOZ678	VHYIQ		YMML	(22:00)	(22:00)	22:05

• CTOT = TOBT+5minutes
• Grey background to indicate Manual CTOT

GDP Cancellation – NOMC

CTOTs cannot be cleared following a GDP cancellation

- Aerobahn is unable to clear/remove/delete a CTOT from an external system
- Aerobahn is able to overwrite an external system CTOT with a manual CTOT

Steps – for NOMC:

1. NOMC to complete existing process and notifications for a GDP Purge.
2. In Aerobahn, NOMC to select singular or multiple flights to purge CTOT time.
3. Click “Set Purge CTOT” hotkey (set time of TOBT+5 minutes).
4. Manual CTOT is now equal to TOBT+5minutes, which has the effect of removing the CTOT and allowing the TTOT to be recalculated relative to the TSAT. Flights with manual CTOT have grey background.
5. To reverse this action, flight/s can be selected again and using “Clear Purge CTOT” hotkey, the original Harmony CTOT will be reinstated.

2

Call Sign (ATC/Aero)	Reg (Aero)	AC Type (ATC)	Dest (ICAO)	TOBT (Aero)/(TOBT ...)	TSAT (Aero)/(TSAT Au...)	CTOT (Aero)
QFA642	VHVXG	B738	YSSY	(21:05)	(21:14)	21:29
QFA770	VHYYJ	B738	YMML	(21:20)	(21:20)	21:30
VOZ678	VHYIQ		YMML	(22:00)	(22:03)	22:17

3

Set Purge CTOT Clear Purge CTOT

3

Call Sign (ATC/Aero)	Reg (Aero)	AC Type (ATC)	Dest (ICAO)	TOBT (Aero)/(TOBT ...)	TSAT (Aero)/(TSAT Au...)	CTOT (Aero)
QFA642	VHVXG	B738	YSSY	(21:05)	(21:14)	21:29
QFA770	VHYYJ	B738	YMML	(21:20)	(21:20)	21:25
VOZ678	VHYIQ		YMML	(22:00)	(22:00)	22:05

• CTOT = TOBT+5minutes
• Grey background to indicate Manual CTOT

GDP Cancellation – Airlines

CTOTs cannot be cleared following a GDP cancellation

- Aerobahn is unable to clear/remove/delete a CTOT from an external system
- Aerobahn is able to overwrite an external system CTOT with a manual CTOT

Steps – for Airlines

1. After NOMC executes a GDP Purge, the CTOT column will have a grey background to indicate which flights currently have a manual CTOT.
2. Airlines will continue to update the TOBT according to their normal procedures.
3. Updating the TOBT for a flight with a manual CTOT will automatically push out the CTOT to the new TOBT +5 minutes.

1

Flight ID	E/AL	E/AIB	Fit ID (Aer)	Reg (Aero)	AC Type	Dest	SOBT (Aer)	EOBT (Car)	EOBT (Aer)	Stand	TOBT (Aer)	ARDT (Aer)	TSAT	ASAT (Aero)	AOBT (Aer)	TTOT (ACDM)	CTOT (Aer)	Flow
QFA655	13:31	13:35	QFA642	VHXXG	73H	SYD	21:05			7	(21:05)		(21:14)			21:24	21:29	
QFA775	07:47	07:50	QFA770	VHYYJ	73H	MEL	21:20			18	(21:20)		(21:20)			21:29	21:25	
QFA649	06:54	06:58	QFA768	VHXXS	73H	MEL	23:10			14	(23:10)		(23:10)			23:20		
QLK1603	09:15	09:17	QFA1652	VH8NS	319	BME	23:30			23	(23:30)		(23:30)			23:39		
QFA937	08:29	08:32	QFA934	VHVZM	73H	BNE	23:45			12	(23:45)		(23:45)			23:55		
QFA941	13:57	14:02	QFA848	VHYYC	73H	DRW	00:50			7	(00:50)		(00:50)			01:00		
			QFA846	VHVZQ	73H	SYD	01:00			14	(01:00)		(01:00)			01:10		
QFA651	09:11	09:14	QFA884	VHVVH	73H	ADL	01:10			7	(01:10)		(01:10)			01:20		
QFA777	11:30	11:33	QFA772	VHXXZ	73H	MEL	01:50			20	(01:50)		(01:50)			01:59		
QFA767	(23:34)	(23:37)	QFA936	VHYYK	73H	BNE	02:30			14	(02:30)		(02:30)			02:40		
QFA1655	09:24	09:28	QFA1654	VHUVQ	320	BME	02:35			19	(02:35)		(02:35)			02:44		

2

Flight ID	E/AL	E/AIB	Fit ID (Aer)	Reg (Aero)	AC Type	Dest	SOBT (Aer)	EOBT (Car)	EOBT (Aer)	Stand	TOBT (Aer)	ARDT (Aer)	TSAT	ASAT (Aero)	AOBT (Aer)	TTOT (ACDM)	CTOT (Aer)	Flow
QFA655	13:31	13:35	QFA642	VHXXG	73H	SYD	21:05			7	(21:05)		(21:14)			21:24	21:29	
QFA775	07:47	07:50	QFA770	VHYYJ	73H	MEL	21:20			18	21:50		(21:50)			21:59	21:55	
QFA649	06:54	06:58	QFA768	VHXXS	73H	MEL	23:10			14	(23:10)		(23:10)			23:20		
QLK1603	09:15	09:17	QFA1652	VH8NS	319	BME	23:30			23	(23:30)		(23:30)			23:39		
QFA937	08:29	08:32	QFA934	VHVZM	73H	BNE	23:45			12	(23:45)		(23:45)			23:55		
QFA941	13:57	14:02	QFA848	VHYYC	73H	DRW	00:50			7	(00:50)		(00:50)			01:00		
			QFA846	VHVZQ	73H	SYD	01:00			14	(01:00)		(01:00)			01:10		
QFA651	09:11	09:14	QFA884	VHVVH	73H	ADL	01:10			7	(01:10)		(01:10)			01:20		
QFA777	11:30	11:33	QFA772	VHXXZ	73H	MEL	01:50			20	(01:50)		(01:50)			01:59		

3

Inter-Operator GDP Slot Swaps (S)

The change of suffix of an aircraft ID in ATFM to facilitate an inter-operator GDP slot swap between aircraft operator A and B, causes an additional flight to be created in A-CDM.

- The additional flight is allocated a slot in the PDS.

To ensure these duplicate records can be identified and removed:

1. In Harmony: Aircraft Operator A shall add a suffix “S” to the aircraft ID holding the slot to be swapped
2. In A-CDM: Aircraft Operator B shall then suspend/cancel the additional record identified by the suffix “S”.

Tactical Releases (T)

Suffix “T” must be added in Harmony for flights with a tactical release. This must be done before the slot is being ‘rolled’ down the GDP, otherwise the CTOT in A-CDM will be set to CTOT of the ‘rolled’ slot.

- This causes an additional flight to be created in A-CDM.
- The additional flight is allocated a slot in the PDS.

In addition to existing processes and Business Rules for tactical releases, upon actioning a tactical release:

1. The NOMC shall set the CTOT for the flight approved for tactical release to TOBT + 5mins in A-CDM (workaround until CTOT can be removed from A-CDM), and
2. The aircraft operator shall be responsible for suspending/cancelling the additional flight record with suffix “T” in A-CDM.

Airline / GH Workspace – Susp/Suffix S/T

Call Sign (ATC/Aero)	Reg (Aero)	AC Type (ATC)	Dest (ICAO)	TOBT (Aero)/(TOBT ... ↑ ↓)	TSAT (Aero)/(TSAT Auto)	CTOT (Aero)	Has Suspended FP
VET	VHVET	SW4	YARM	(22:45)	(22:45)		✘
VET	VHVET	SW4	YTNG	(03:10)	(03:10)		✘
VET	VHVET	SW4	YCFS	(06:30)	(06:30)		✘
CAL54	B18902	A359	RCTP	(12:50)			✔

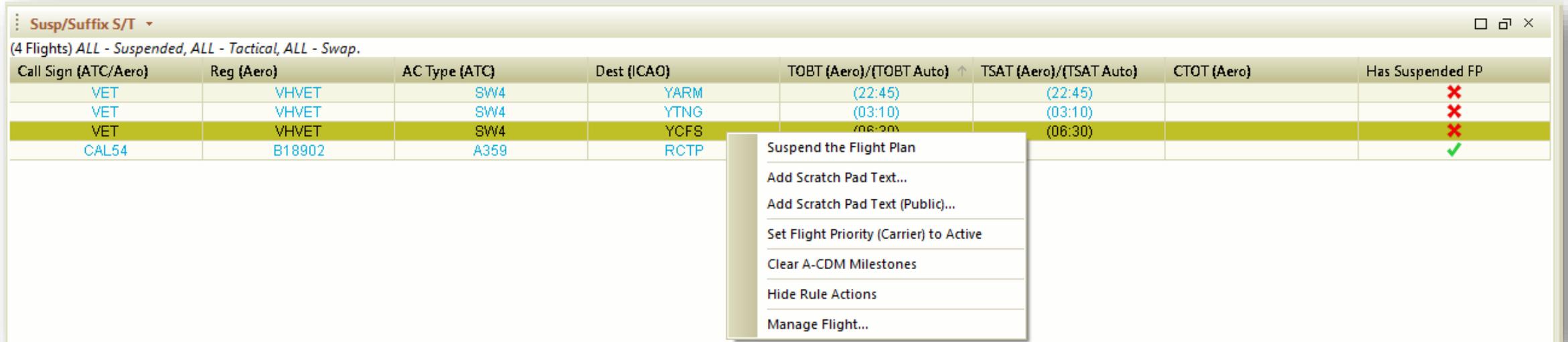
This watchlist is used to easily identify flights created by Harmony for COBT swaps between carriers, and tactical releases.

These flights create a flight plan in Aerobahn that consumes a slot in the PDS. It is the airline's responsibility to suspend/cancel flights within Aerobahn to remove these flights from the PDS.

- **Swap Flights (S):** Flights with a Call Sign ending with "S"
- **Tactical Flights (T):** Flights with a Call Sign ending with "T"

**Note: All flights with Call Signs ending in S, and T are included in Flight Watchlist View. Some may not be flights that are part of a Swap or Tactical Release.*

Airline / GH Workspace – Suspending a flight



The screenshot shows a software interface window titled "Susp/Suffix S/T". Below the title bar, there is a summary text: "(4 Flights) ALL - Suspended, ALL - Tactical, ALL - Swap." The main area contains a table with the following columns: Call Sign (ATC/Aero), Reg (Aero), AC Type (ATC), Dest (ICAO), TOBT (Aero)/(TOBT Auto) ↑, TSAT (Aero)/(TSAT Auto), CTOT (Aero), and Has Suspended FP. The table has four rows. The third row is highlighted in yellow, and a context menu is open over it, listing several actions. The "Has Suspended FP" column contains red 'X' marks for the first three rows and a green checkmark for the fourth row.

Call Sign (ATC/Aero)	Reg (Aero)	AC Type (ATC)	Dest (ICAO)	TOBT (Aero)/(TOBT Auto) ↑	TSAT (Aero)/(TSAT Auto)	CTOT (Aero)	Has Suspended FP
VET	VHVET	SW4	YARM	(22:45)	(22:45)		✗
VET	VHVET	SW4	YTNG	(03:10)	(03:10)		✗
VET	VHVET	SW4	YCFS	(06:30)	(06:30)		✗
CAL54	B18902	A359	RCTP				✓

Suspending a flight – NOMC & Airline

- Flights need to be suspended (or canceled) to remove the flight from being sequenced in the PDS.
- Select flight, right click, and select “Suspend the Flight Plan” from the context menu to suspend the flight.
- Suspended flights remain active in the system but are not sequenced in the PDS. These flights will not have a TSAT or TTOT.
- Suspended flights will have a green check mark in the “Has Suspended FP” column.

Airline / GH Workspace – Cancelling a flight

Airlines are to use **Scheduled Flight Management** tool to cancel a flight.

Steps – Airlines:

- Open **Scheduled Flight Manager (SFM)** from the **System Menu**
- Highlight flight to cancel.
- Select **Cancel Flight** button
- Cancelled flights have strike through and “Cancelled?” Column is set to true.
- Once a flight is cancelled in the **Scheduled Flight Management** tool, it will be removed from the system and no longer displayed in the Flight Watch List. It will be visible only in the SFM tool.

Scheduled Flight Management - As of 03/30/2025 02:54:55

Direction	Call Sign (...)	Ship # (Ca...)	AC Type (...)	Orig	Dest	Stand Asg...	SOBT (Aer...)	E/AOBT (...)	E/ATOT (...)	SIBT (Aero)	E/AIBT (A...)	E/ALDT (A...)	Flt Route	First Fix	Last Arr Fix	Canc
Departure	QFA1654	320	PER	BME	19	02:35	02:49	(02:57)	05:10	(05:10)	(05:02)	YPPH..AM...				False
Departure	VOZ467	73H	PER	BNE	144	02:40	02:44	02:51	07:05	(07:05)	(06:41)		AMANA	ENLIP		False
Departure	QFA1730	100	PER	KTA	8	02:45	02:52	(02:58)	04:50	(04:50)	(04:31)	YPPH..AVN...				False
Arrival	VOZ717	320	ADL	PER	150A	02:45	02:45	(02:52)	06:15	(05:31)	(05:24)	YPAD..GILE...	ZZZZ	KABLI		False
Departure	MALTH		PER	HKG		02:54	(02:04)	(02:58)			(10:07)	YPPH..AVN...				False
Arrival	QFA1653	319	BME	PER	7	02:55	02:42	(03:00)	05:35	(04:56)	(04:48)	YBRM..BR...	ZZZZ	JULIM		False
Departure	VOZ684	7M8	PER	MEL	150A	03:20	03:20	02:24	06:55	(06:55)	(06:48)	YPPH..MU...	HIDOT	WENDY		False
Departure	VOZ1485	73H	PER	BME	146	03:20	03:20	(03:25)	05:55	(05:55)	(05:39)	YPPH..AVN...				False
Arrival	QFA997	73H	BNE	PER		03:20	(03:20)	(03:27)	08:50	(08:50)	(07:54)	YBBN..SAN...	SANEG	KABLI		True
Departure	QFA34	789	PER	SYD		03:25	03:25	(03:32)	07:25	(07:25)	(07:21)	YPPH..MU...	HIDOT	RIVET		False
Departure	QFA648	73H	PER	SYD	15	03:25	03:25	(03:24)	07:20	(07:20)	(07:25)	YPPH..MU...	HIDOT	RIVET		False

Scheduled Flight Management - As of 03/30/2025 02:56:20

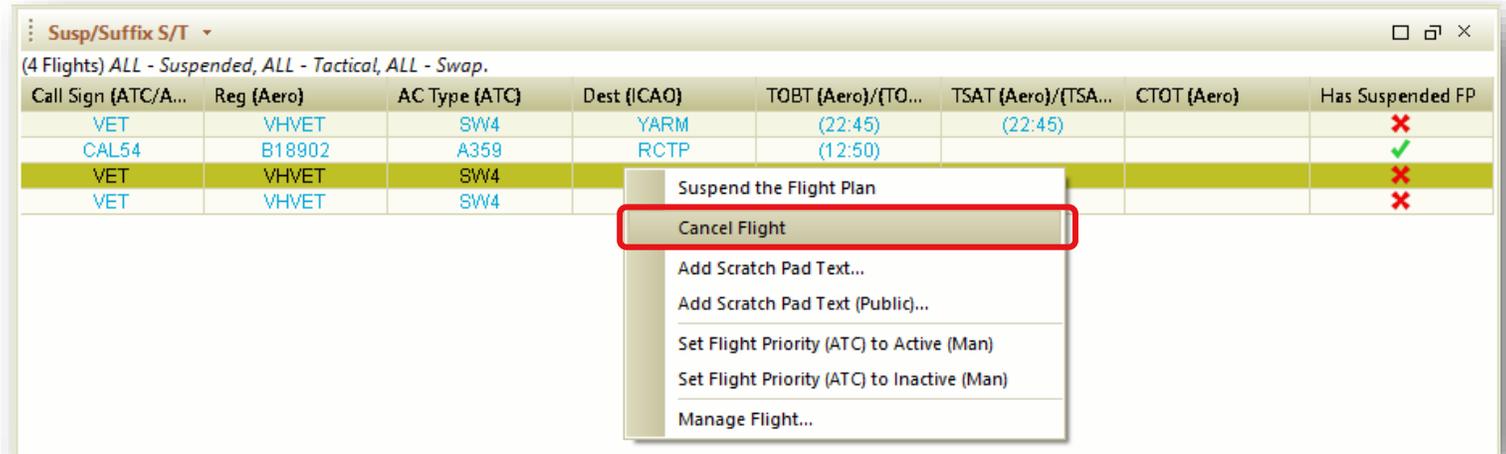
Direction	Call Sign (...)	Ship # (Ca...)	AC Type (...)	Orig	Dest	Stand Asg...	SOBT (Aer...)	E/AOBT (...)	E/ATOT (...)	SIBT (Aero)	E/AIBT (A...)	E/ALDT (A...)	Flt Route	First Fix	Last Arr Fix	Canc
Departure	QFA1654	320	PER	BME	19	02:35	02:49	(02:57)	05:10	(05:10)	(05:02)	YPPH..AM...				False
Departure	VOZ467	73H	PER	BNE	144	02:40	02:44	02:51	07:05	(07:05)	(06:41)		AMANA	ENLIP		False
Departure	MALTH		PER	HKG		02:44	(02:54)	02:54	10:11	(10:11)	(10:07)	YPPH..AVN...				True
Departure	QFA1730	100	PER	KTA	8	02:45	02:52	(02:58)	04:50	(04:50)	(04:46)	YPPH..AVN...				False
Arrival	VOZ717	320	ADL	PER	150A	02:45	02:45	(02:45)	06:15	(05:31)	(05:24)	YPAD..GILE...	ZZZZ	KABLI		False
Arrival	QFA1653	319	BME	PER	7	02:55	02:42	(03:00)	05:35	(04:56)	(04:48)	YBRM..BR...	ZZZZ	JULIM		False
Departure	VOZ684	7M8	PER	MEL	150A	03:20	03:20	02:24	06:55	(06:55)	(06:48)	YPPH..MU...	HIDOT	WENDY		False
Departure	VOZ1485	73H	PER	BME	146	03:20	03:20	(03:25)	05:55	(05:55)	(05:39)	YPPH..AVN...				False
Arrival	QFA997	73H	BNE	PER		03:20	(03:20)	(03:27)	08:50	(08:50)	(07:54)	YBBN..SAN...	SANEG	KABLI		True
Departure	QFA34	789	PER	SYD		03:25	03:25	(03:32)	07:25	(07:25)	(07:21)	YPPH..MU...	HIDOT	RIVET		False
Departure	QFA648	73H	PER	SYD	15	03:25	03:25	(03:24)	07:20	(07:20)	(07:25)	YPPH..MU...	HIDOT	RIVET		False

NOMC Workspace – Cancelling a flight

NOMC can cancel a flight in the **Susp/Suffix S/T** tab to remove the flight from being sequenced in the PDS.

Steps – NOMC:

- Select flight, right click, and select **Cancel Flight** from the context menu to cancel the flight.
- Cancelled flights are removed from the system and are only available in the **Scheduled Flight Manager** tool.



Defining Three Letter Designators (no ICAO Code)

- Aerobahn currently requires a three letter designator for all airline codes to:
 - Assign airlines to carrier groups
 - Set airline proprietary access list
 - Correlate flight plans from all data sources: AODB, Carrier, ATC
- Airlines that have an IATA code, but no ICAO code will be defined an ICAO code that is not currently in use.
 - X suffix will be added to IATA code, provided ICAO code is not currently in use.
 - Example: FC IATA code will be assigned FCX three letter designator
 - Coordinate with ATC to define a three letter designator if ICAO code is currently in use.

Mobile TOBT Application

BASIC FUNCTIONALITY

Mobile TOBT Application

Overview

- A progressive web app (PWA)
 - Can be run from any browser on your laptop or mobile device
 - On a mobile device, the icon can be saved to the device to look like other apps
- Designed for airlines or ground handlers to update TOBTs without going into the A-CDM Workspace
- Airlines / ground handlers are only able to see and update flights for which they have responsibility / permission
- Times within the app can be selectable to be in UTC or Airport Local Time
- SSO logins use the Identity Provider login section outlined in red.

URL:

- Shadow: <https://bneshadow.aerobahn.com/tobt/>
- Production: <https://bne.aerobahn.com/tobt/>

Note: URL will be similar for each airport

3:57

BNE
BRISBANE AIRPORT

Aerobahn Airport
TOBT Manager

Identity Provider

<your identity provider>

Log in

Username

Password

Log in

SAAB

Mobile TOBT Application

Step 1

- Click on the **app icon**
- **Log in** to the application using identity provider login in details



10:32 LTE

Perth Airport 

Aerobahn Airport TOBT Manager

Identity Provider

[Log in](#)

Username

Password

[Log in](#)



2:38 5G

pershadow.aerobahn.com

UTC [Log out](#)

Search by Flight

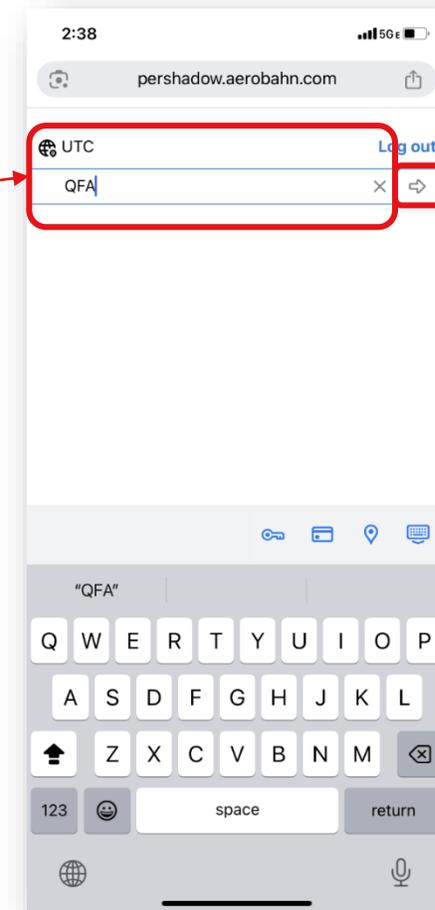
To change the TOBT of a flight

1. Enter part or all of the flight ID in the Search field
2. Select a flight from the list
3. Set the TOBT

Mobile TOBT Application

Step 2

- **Search by flight** – enter part or all of the Flight ID in the search field
- Click on the **arrow**



Mobile TOBT Application

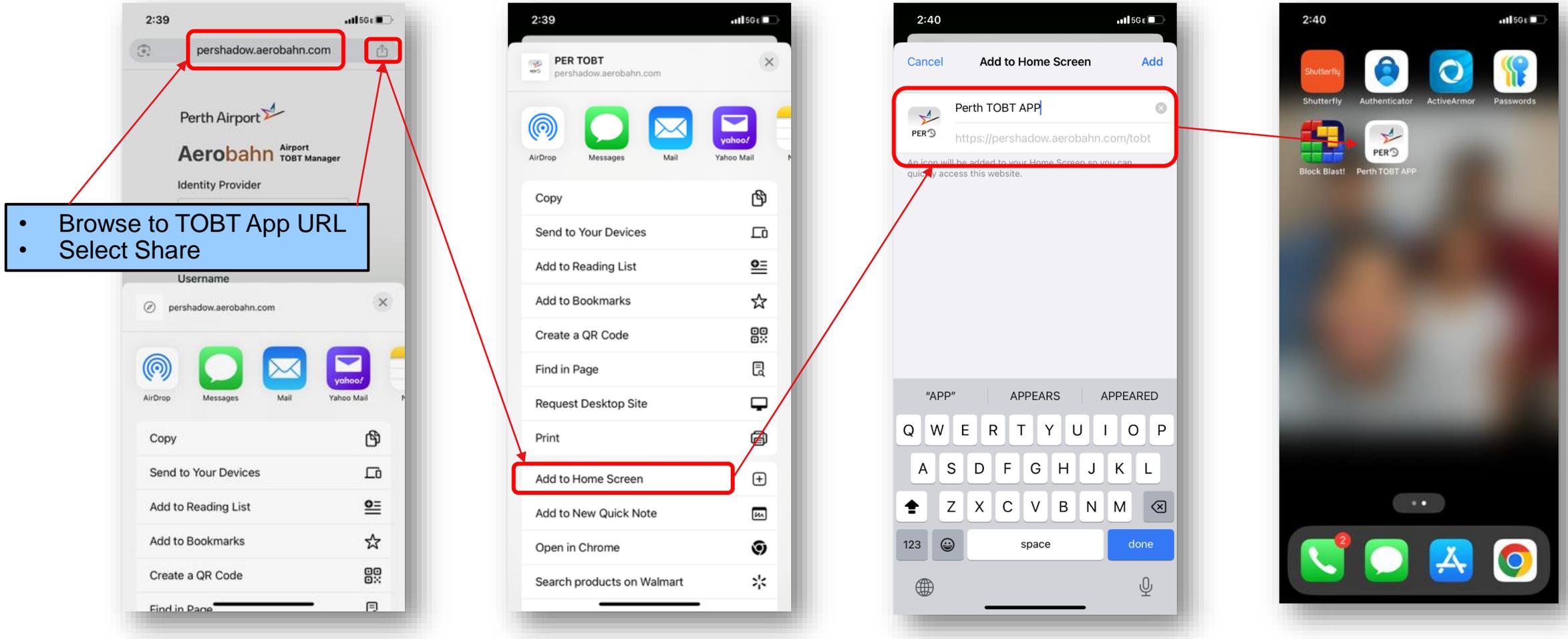
Step 3

1. Select the required flight by clicking on the flight
2. Change the time (hours / mins) (must be 5 mins in advance of current TOBT).
3. Click **Update**
4. The new TOBT will display – in the mobile appl and in the portal
5. To see the new TSAT, refresh the mobile app

NOTE: The new TOBT has no brackets meaning it is now a manual time and will now not change automatically. Any further changes must be made manually.

Flight ID	E/AL	E/AIB	Fit ID (Aer)	Reg (Aero)	AC Type	Dest	SOBT (Aer)	EOBT (Car)	EOBT (Aer)	Stand	TOBT (Aer)
QFA010	03:42	03:45	QFA009	VHZNF	789	LHR	10:35	13:00	13:00	20A	13:00
QFA765	11:31	11:33	QFA654	VHVZW	73H	SYD	14:55			20	(14:55)
QFA857	(14:09)	(14:17)	QFA942	VHXZA	73H	BNE	14:55			20	(14:55)
QFA655	(13:42)	(13:50)	QFA764	VHEBB	332	MEL	14:55			20A	15:00
QFA739	12:42	(13:45)	QFA1666	VHNNH	100	KGI	20:55			24	20:55

Saving TOBT App to Home Screen



Changing Time Settings in Aerobahn A-CDM

Aerobahn Portal & TOBT Application

Time Settings in Aerobahn A-CDM (Portal)

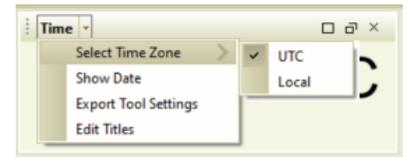
Time can be shown in local airport or UTC time in the Aerobahn A-CDM portal.

The screenshot shows the Aerobahn A-CDM portal interface. At the top, there are several status indicators: CTOT (0), E/TOBT Alert (0), TOBT (10), TOBT Window (4), Miss TOBT Warning (0), TSAT Lost (1), ARDT/no ASAT (0), ASAT/no AOBT (0), and CTOI/TTOT Conflict (0). A 'Time' dropdown menu is open, showing '04:15:04 UTC'. Below this, there is a 'Select Time Zone' dropdown menu with 'UTC' and 'Local' options. The main part of the screen displays a table of ACDM Flights with columns for Flight ID, E/AL, E/AB, FID, AC Type, Dest, SOST, EOBT, and various delay metrics. A map of the airport is visible on the right side of the interface.

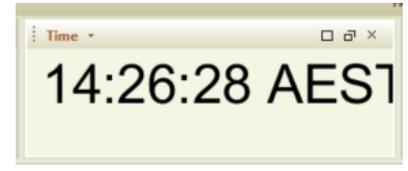
This is the **system time** which you can set to be **UTC** or **local airport time** in **User Settings** (see slide 4)

This is the **display time** which can be displayed in UTC or local airport time.

1. Click on the **Time** dropdown
2. Click on **Select Time Zone**
3. Select preferred time zone – **UTC** or **Local**

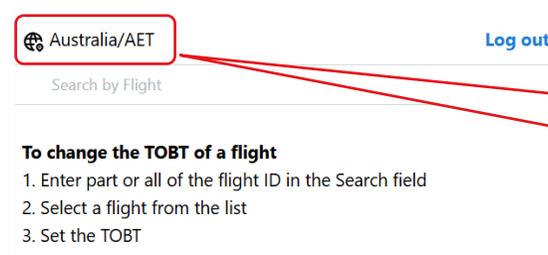
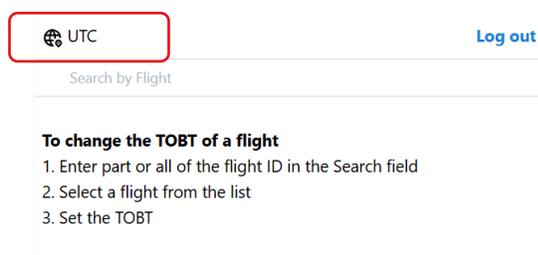


5. If you change the time zone, it will display the new time zone time – see below.



Time Settings in TOBT Application

Time can be shown in local airport or UTC time in the TOBT Application



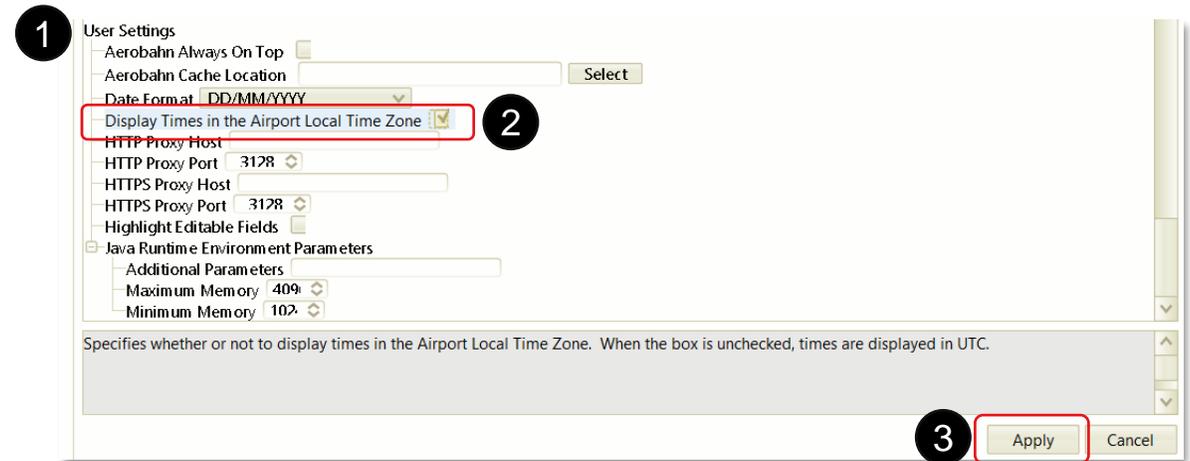
The time in the TOBT Application is the **system time** which you can set to be **UTC** or **local airport time** in **User Settings** (see slide 4)

Changing Time Setting – Portal / TOBT Application

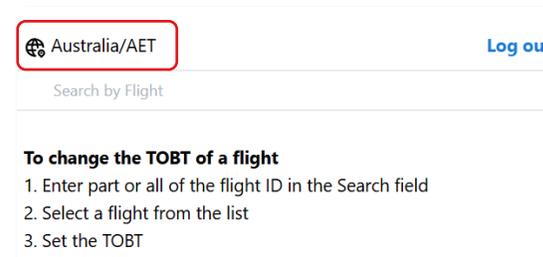
To change the system time setting (user or Service Desk)

1. Go to **User Settings > Display Times in Airport Local Time Zone**
2. Check the box
3. Click **Apply**
4. Re-log in for this to take effect

The new time setting will be visible in the TOBT Application and portal.



In the TOBT Application



In the Portal

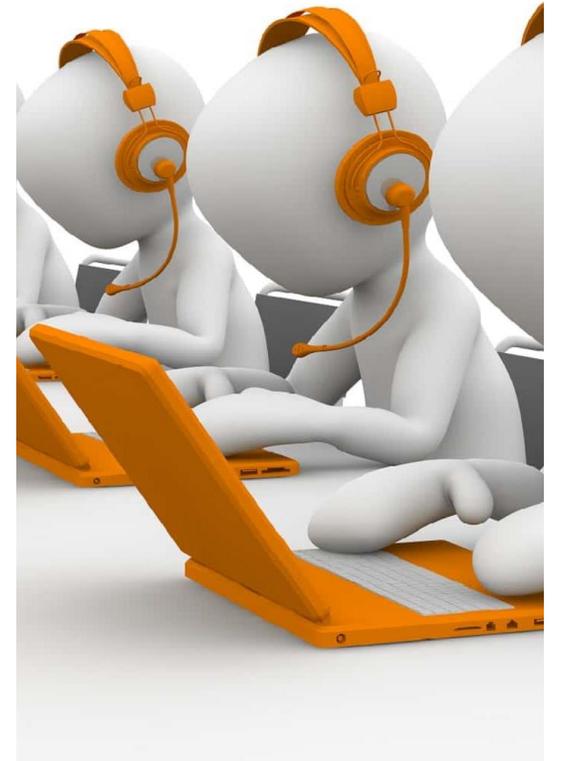


A-CDM Support

HOW TO ACCESS SUPPORT

Contact Us

- All inquiries should be directed to your local Service Desk.
- Service Desk personnel are trained for first level of support.
- If required, your local Service Desk will escalate the issue to Saab Customer Service.
- Saab Customer Service provides support 24 x 7 x 365.



For more information on A-CDM, reach out to your key A-CDM contact or email acdmprogram@airservicesaustralia.com.
