



International Civil Aviation Organization

AIR NAVIGATION SYSTEMS IMPLEMENTATION GROUP

Third Meeting (ANSIG/3)
(Cairo, Egypt, 2 – 4 July 2018)

Agenda Item 4: Performance Framework for Regional Air Navigation Implementation

MISSING DEPARTURE MESSAGES

(Presented by the Secretariat)

SUMMARY

This paper highlights the issue related to missing Departure messages (DEP).

Action by the meeting is at paragraph 3.

REFERENCES

- ICAO APAC SL T 3110.1- AP062/18 (A TM) dated 14 June 2018

1. INTRODUCTION

1.1 The Flight Plan (FPL) message provides fundamental and critical information determining the provision of air traffic services to flights. DEP messages provide important information related to the activation of the FPL in both manual and automated ATM systems, Secondary Surveillance Radar (SSR) mode and code, estimated elapsed time to the destination aerodrome and other information. The DEP message also usually provides the first real-time aircraft movement information used to update demand calculations in Air Traffic Flow Management (ATFM) processes

1.2 ICAO Doc 4444 Procedures for Air Navigation Services – Air Traffic Management (PANS-ATM) specifies that messages for ATS purposes (including FPL) shall be originated by the appropriate ATS units, except that, through special local arrangements, ATS units may delegate the responsibility for originating movement messages to the pilot, the operator, or its designated representative. Many airlines, accordingly, distribute FPL messages direct to concerned ATS units rather than submitting the flight plan to the air traffic services reporting office for onwards distribution. PANS-ATM further specifies that a Filed Flight Plan (FPL) message shall be sent to, *inter alia*:

- the Area Control Centre (ACC) or Flight Information Centre serving the control area or FIR within which the departure aerodrome is situated;
- all Centres in charge of each FIR or upper FIR along the route; and
- the aerodrome control tower at the destination aerodrome.

1.3 PANS-ATM specifies in section 11.2.1.2.3.3 that the following three letter designators (forming part of the AFTN address, together with the relevant ICAO four-letter location indicator and a supplementary letter, usually X) shall be used when addressing FPL and other ATS messages to ATS units:

- If the message is relevant to an IFR flight ZQZX
- If the message is relevant to a VFR flight ZFZX
- Aerodrome control tower ZTZX
- Air traffic services reporting office ZPZX
- Other three letter designators shall not be used for that purpose.

2. DISCUSSION

2.1 The meeting may wish to note that the Twenty-Seventh Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/27, Bangkok, Thailand, 05 to 08 September 2016), based on the outcome of the APANPIRG ATM and ATFM Sub Groups, noted the importance of timely submission of flight plans and transmission of Air Traffic Services (ATS) messages to support an effective ATFM service, the performance expectations included in the Regional Framework for collaborative ATFM, and the requirements specified in ICAO Doc 4444 – PANS-ATM. The APANPIRG/27 agreed to the following Conclusions:

CONCLUSION APANPIRG/27/12: ORIGINATION AND DISTRIBUTION OF DEPARTURE (DEP) MESSAGES

That, recognizing the importance of AFTN departure (DEP) messages in the management and coordination of flight plans in both manual and automated ATM environments, ICAO be requested to:

- 1. Conduct an analysis of the incidence of non-receipt of DEP messages required by ICAO Doc 4444 Procedures for Air Navigation Services (PANS-ATM) Section 11.4.2.2;*
- 2. Request that States failing to ensure correct transmission of DEP messages promptly take corrective action and report the status of corrective actions to the ICAO APAC Regional Office by 30 April 2017; and*
- 3. Raise APANPIRG Air Navigation Deficiencies against failure by States to comply with Doc 4444 Section 11.4.2.2, at APANPIRG/28.*

2.2 As a follow-up to the above APANPIRG Conclusion, the ICAO APAC Office coordinated a 24-hour analysis period during which participating States recorded pertinent details of flights for which a FPL or DEP message had not been received. The analyses of DEP messages distribution are at **Appendix A**, which was sent by the ICAO MID Office to the MID States on 19 June 2018 for appropriate actions.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) review the analysis at **Appendix A** and take action as appropriate;
- b) urge States to ensure:
 - i. compliance with the provisions of the PANS-ATM for the distribution of DEP messages; and
 - ii. proper handling of received DEP messages.



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Ref.: T 3/10.1- AP062/18 (ATM)

14 June 2018

Subject: Non-Compliance with ICAO Doc 4444 PANS-ATM 11.4.2.2 - Departure (DEP) Messages

Action required: Conduct analysis and take corrective action to ensure compliance with PANS-ATM 11.4.2.2 (DEP Messages)

Sir/Madam,

I wish to refer to the discussion and outcomes of the Fifth Meeting of the Air Traffic Management Sub-Group of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (ATM/SG/5, Bangkok, Thailand, 31 July – 04 August 2017) and the Eighth Meeting of the Asia/Pacific Air Traffic Flow Management Steering Group (ATFM/SG/8, New Delhi, India, 14 - 18 May 2018) relating to the failed transmission of ATS messages, specifically Departure (DEP) messages.

DEP messages provide important information related to the activation of the FPL in both manual and automated ATM systems, Secondary Surveillance Radar (SSR) mode and code, estimated elapsed time to the destination aerodrome and other information. The DEP message also usually provides the first real-time aircraft movement information used to update demand calculations in Air Traffic Flow Management (ATFM) processes.

Analyses of DEP message distribution were conducted in accordance with the following Conclusion of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG):

Conclusion APANPIRG/27/12: Origination and Distribution of Departure (DEP) Messages

That, recognizing the importance of AFTN departure (DEP) messages in the management and coordination of flight plans in both manual and automated ATM environments, ICAO be requested to:

1. *Conduct an analysis of the incidence of non-receipt of DEP messages required by ICAO Doc 4444 Procedures for Air Navigation Services (PANS-ATM) Section 11.4.2.2;*

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2. *Request that States failing to ensure correct transmission of DEP messages promptly take corrective action and report the status of corrective actions to the ICAO APAC Regional Office by 30 April 2017; and*
3. *Raise APANPIRG Air Navigation Deficiencies against failure by States to comply with Doc 4444 Section 11.4.2.2, at APANPIRG/28.*

The most recent analysis (**Attachment A**) indicates that, for a twenty four-hour data collection period, there were 582 instances of non-received DEP messages for flights entering one or more Flight Information Regions (FIRs) administered by the five Asia/Pacific States participating in the collection of data. The data indicates widespread non-compliance with the provisions of ICAO Doc 4444 Procedures for Air Navigation Services – Air Traffic Management (PANS-ATM) Section 11.4.2.2.6. There may in some cases also be errors in the reception handling of messages,

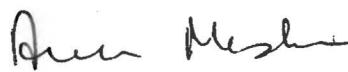
Accordingly, I request that your administration takes immediate steps to conduct a thorough analysis and take corrective action to ensure:

1. full compliance with the provisions of PANS-ATM for the distribution of DEP messages to all affected FIRs in the Asia/Pacific Region; and
2. the correct handling of DEP messages received.

For Asia/Pacific Region States where the data analysis indicates a significant systemic failure to comply with PANS-ATM, APANPIRG Air Navigation Deficiencies will be presented to the APANPIRG/29 meeting in September 2018. The States concerned will be separately notified. The Planning and Implementation Regional Groups (PIRGs) of other Regions will be requested to also consider action on this matter.

Further Asia/Pacific regional analyses of missing DEP messages will be conducted in due course.

Yours sincerely,


Arun Mishra
Regional Director

Enclosure:

A – Missing DEP Messages per State of Departure

ATTACHMENT A – MISSING DEP MESSAGES PER STATE OF DEPARTURE

Note: Information provided by participating States Australia, China, Japan, Singapore and Thailand

	State of Departure	Aircraft ID	Departure Aerodrome	Destination Aerodrome	EOBT	Reporting State
1.	AUSTRALIA	QFA7533	YSSY	VMMC	201803021730	China
2.		CCA796	YBBN	ZBAA	201803021730	China
3.		CES778	YSSY	ZPPP	201803021850	China
4.		GCR7940	YSSY	ZHCC	201803030530	China
5.		CHH7998	YSSY	ZGHA	201803030715	China
6.		CSN334	YBCS	ZGGG	201803030740	China
7.		AUA25	LOWW	VTBS	201803012220	Thailand
8.		AIC309	YMML	VIDP	201803022345	Singapore
9.		XAX223	YSSY	WMKK	2018030255	Singapore
10.	AUSTRIA	AUA75	LOWW	ZSPD	201803022020	China
11.		AUA57	LOWW	VHHH	201803022040	China
12.		AUA63	LOWW	ZBAA	201803030055	China
13.	AZERBAIJAN	CLX798	UBBB	ZSPD	201803021300	China
14.		CLX784	UBBB	WSSS	201803020545	Thailand
15.		CLX784	UBBB	WSSS	20180302545	Singapore
16.	BAHRAIN	SOO275	OBBI	VHHH	201803021040	China
17.		CKS247	OBBI	VHHH	201803021835	China
18.		GFA152	OBBI	VTBS	201803011925	Thailand
19.		GFA150	OBBI	VTBS	201803020605	Thailand
20.		GFA154	OBBI	RPLL	201803021725	Thailand
21.		CXB767	OTBD	WSSS	201803022300	Singapore
22.	BANGLADESH	CES2036	VGHS	ZPPP	201803021635	China
23.		HKC6652	VGHS	VHHH	201803021735	China
24.		CSN392	VGHS	ZGGG	201803030250	China
25.		BBC084	VGHS	WSSS	201803020225	Thailand
26.		UBG315	VGHS	WMKK	201803020250	Thailand
27.		BBC088	VGHS	VTBS	201803020420	Thailand
28.		THA322	VGHS	VTBS	201803020740	Thailand
29.		RGE784	VGHS	WSSS	201803020745	Thailand
30.		S2AHF	VGHS	WMKL	201803020800	Thailand
31.		MEDIC45	VGHS	WSSL	201803021100	Thailand
32.		BBC086	VGHS	WMKK	201803021500	Thailand
33.		TGW515	VGHS	WSSS	201803021500	Thailand
34.		MAS113	VGHS	WMKK	201803021525	Thailand
35.		UBG307	VGHS	WSSS	201803021630	Thailand
36.		RGE782	VGHS	WMKK	201803021720	Thailand
37.		MXD165	VGHS	WMKK	201803021730	Thailand
38.	SIA447	VGHS	WSSS	201803021755	Thailand	

	State of Departure	Aircraft ID	Departure Aerodrome	Destination Aerodrome	EOBT	Reporting State
39.	BANGLADESH	MAS197	VGHS	WMKK	201803021830	Thailand
40.		MXD161	VGHS	WMKK	201803021910	Thailand
41.		AXM70	VGHS	WMKK	201803021920	Thailand
42.		THA340	VGHS	VTBS	201803022000	Thailand
43.		BBC084	VGHS	WSSS	201803022225	Singapore
44.		MEDIC45	VGHS	WSSL	201803021100	Singapore
45.		RGE784	VGHS	WSSS	20180302745	Singapore
46.		SIA447	VGHS	WSSS	201803021755	Singapore
47.		TGW515	VGHS	WSSS	201803021500	Singapore
48.		UBG307	VGHS	WSSS	201803021630	Singapore
49.	BELGIUM	ETH3738	EBLG	ZSPD	201803021810	China
50.		CHH7922	EBBR	ZSPD	201803021825	China
51.		TAY801	EBLG	ZSPD	201803022105	China
52.		ANA232	EBBR	RJAA	201803021950	Japan
53.		THA935	EBBR	VTBS	201803021210	Thailand
54.	CAMBODIA	CSZ9044	VDPP	ZGGG	201803022120	China
55.		CHH454	VDPP	ZJSY	201803022315	China
56.		AXM265	VDSV	WMKK	201803020645	Thailand
57.	CANADA	CPA829	CYYZ	VHHH	201803021420	China
58.		ACA015	CYYZ	VHHH	201803022300	China
59.		ACA017	CYUL	ZSPD	201803030210	China
60.		ACA027	CYYZ	ZSPD	201803030225	China
61.		CSC8502	CYVR	ZHCC	201803030225	China
62.		CRK081	CYVR	VHHH	201803030240	China
63.		ACA031	CYYZ	ZBAA	201803030250	China
64.		CPA825	CYYZ	VHHH	201803030315	China
65.		ACA007	CYVR	VHHH	201803030405	China
66.		CES582	CYVR	ZSPD	201803030420	China
67.		ACA025	CYVR	ZSPD	201803030420	China
68.		CBJ472	CYVR	ZSQD	201803030420	China
69.		CCA992	CYVR	ZBAA	201803030450	China
70.		ACA029	CYVR	ZBAA	201803030500	China
71.		CSN378	CYVR	ZGGG	201803030525	China
72.	CHH7976	CYYZ	ZBAA	201803030610	China	
73.	CHILE	QFA28	SCEL	YSSY	xxxxxxxx1635	Australia
74.	CHINA	PIA852	ZBAA	RJAA	201803020050	Japan
75.		CSN8327	ZGGG	VTCC	201803020255	Thailand
76.		CTV8815	ZPPP	WADD	201803021900	Singapore
77.	DENMARK	SAS995	EKCH	ZBAA	201803030405	China
78.		TOM578	EKCH	VVPQ	201803020120	Thailand
79.		THA951	EKCH	VTBS	201803021250	Thailand

	State of Departure	Aircraft ID	Departure Aerodrome	Destination Aerodrome	EOBT	Reporting State
80.	EGYPT	MSR958	HECA	ZGGG	201803030530	China
81.	ESTONIA	QQE565	EETN	RJTT	201803021500	Japan
82.	ETHIOPIA	ETH604	HAAB	ZBAA	201803021030	China
83.		ETH684	HAAB	ZSPD	201803030340	China
84.		ETH608	HAAB	VHHH	201803030345	China
85.		ETH606	HAAB	ZGGG	201803030505	China
86.		ETH618	HAAB	VTBS	201803012135	Thailand
87.		FINLAND	JAL414	EFHK	RJAA	201803021505
88.	TOM354		EFOU	VTSP	201803011500	Thailand
89.	FRANCE	AFR256	LFPG	WSSS	201803021950	Singapore
90.		AFR256A	LFPG	WSSS	201803021300	Singapore
91.		KAL504	LFPG	RKSI	201803020815	China
92.		FDX5342	LFPG	ZGGG	201803021135	China
93.		EVA088	LFPG	RCTP	201803021820	China
94.		CSN348	LFPG	ZGGG	201803021845	China
95.		CES554	LFPG	ZSPD	201803021925	China
96.		CCA834	LFPG	ZSPD	201803021925	China
97.		AFR264	LFPG	RKSI	201803022010	China
98.		AFR128	LFPG	ZBAA	201803022045	China
99.		AFR292	LFPG	RJBB	201803022100	China
100.		AFR112	LFPG	ZSPD	201803022100	China
101.		AFR132	LFPG	ZHHH	201803022135	China
102.		AAR502	LFPG	RKSI	201803030200	China
103.		CCA934	LFPG	ZBAA	201803030230	China
104.		CES570	LFPG	ZSPD	201803030305	China
105.		KAL902	LFPG	RKSI	201803030400	China
106.		AFR188	LFPG	VHHH	201803030630	China
107.		AFR382	LFPG	ZBAA	201803030640	China
108.		AFR116	LFPG	ZSPD	201803030700	China
109.		AFR276	LFPG	RJAA	201803021235	Japan
110.		JAL46	LFPG	RJTT	201803021800	Japan
111.		ANA216	LFPG	RJTT	201803021830	Japan
112.		AFR274	LFPG	RJTT	201803022220	Japan
113.		AFR166	LFPG	VTBS	201803011515	Thailand
114.		SIA335	LFPG	WSSS	201803021000	Thailand
115.		THA931	LFPG	VTBS	201803021130	Thailand
116.		HVN10	LFPG	VVTS	201803021235	Thailand
117.		SIA335	LFPG	WSSS	201803021000	Singapore
118.		GEORGIA	CSN6040	UGTB	ZWWW	201803030305
119.	GERMANY	BOX570	EDDP	ZSPD	201803021435	China
120.		FDX26	EDDK	ZSPD	201803021500	China

	State of Departure	Aircraft ID	Departure Aerodrome	Destination Aerodrome	EOBT	Reporting State
121.	GERMANY	GEC8396	EDDF	ZBAA	201803021610	China
122.		GEC8400	EDDF	ZSPD	201803022035	China
123.		MLWSG	EDDB	VHHH	201803022200	China
124.		CHH490	EDDT	ZBAA	201803030125	China
125.		JAL408	EDDF	RJAA	201803021830	Japan
126.		ANA210	EDDL	RJAA	201803021900	Japan
127.		ANA224	EDDF	RJTT	201803021945	Japan
128.		ANA218	EDDM	RJTT	201803021900	Japan
129.		GEC8386	EDDF	RJAA	201803022015	Japan
130.		ANA204	EDDF	RJTT	201803021030	Japan
131.		THA921	EDDF	VTBS	201803021245	Thailand
132.		THA923	EDDF	VTBS	201803011955	Thailand
133.		THA925	EDDM	VTBS	201803021235	Thailand
134.		BOX530	EDDP	VTBS	201803020745	Thailand
135.	HUNGARY	CCA722	LHBP	ZBAA	201803030310	China
136.	INDIA	AIC346	VOMM	WSSS	20180302605	Singapore
137.		CSN3028	VIDP	ZGGG	201803021505	China
138.		CDG8830	VIDP	ZPPP	201803021730	China
139.		AIC348	VIDP	ZSPD	201803021820	China
140.		FDX5384	VIDP	ZGGG	201803022100	China
141.		UTP9946	VABB	ZPPP	201803022135	China
142.		UTP9944	VIDP	ZPPP	201803022205	China
143.		KAL482	VIDP	RKSI	201803022210	China
144.		ANA830	VABB	RJAA	201803022230	China
145.		CES564	VIDP	ZSPD	201803022310	China
146.		CPA696	VABB	VHHH	201803030120	China
147.		AIC314	VIDP	VHHH	201803030145	China
148.		CSN360	VIDP	ZGGG	201803030235	China
149.		CES556	VECC	ZPPP	201803030250	China
150.		JAI76	VABB	VHHH	201803030335	China
151.		JAI78	VIDP	VHHH	201803030340	China
152.		CPA660	VABB	VHHH	201803030350	China
153.		CPA678	VOHS	VHHH	201803030415	China
154.		CPA066	VABB	VHHH	201803030445	China
155.		AAR768	VIDP	RKSI	201803030500	China
156.		KAL656	VABB	RKSI	201803030500	China
157.		CCA948	VIDP	ZBAA	201803030540	China
158.		AIC173	VIDP	KSFO	201803030630	China
159.		SEJ085	VAAH	VTBS	201803021500	Thailand
160.	DRK130	VEBD	VTBS	201803020630	Thailand	
161.	AXM30	VEBS	WMKK	201803021825	Thailand	

	State of Departure	Aircraft ID	Departure Aerodrome	Destination Aerodrome	EOBT	Reporting State	
162.	INDIA	SIA517	VECC	WSSS	201803021825	Thailand	
163.		AXM62	VECC	WMKK	201803021935	Thailand	
164.		AIQ121	VECC	VTBD	201803022035	Thailand	
165.		VJC8638	VEGY	VVTS	201803020450	Thailand	
166.		KTK6121	VIAR	VTBU	201803020040	Thailand	
167.		VTKNB	VIDP	VTSP	201803020600	Thailand	
168.		SIA517	VECC	WSSS	201803021825	Singapore	
169.		SLK455	VOCB	WSSS	201803021740	Singapore	
170.		INDONESIA	ASY314	WIHH	YSCB	xxxxxxx1245	Australia
171.			SJY1190	WADD	ZSNJ	201803020800	China
172.	CXA870		WIII	ZSAM	201803020900	China	
173.	GIA898		WIII	ZGGG	201803020955	China	
174.	LNI2621		WADD	ZGHA	201803020955	China	
175.	CSN388		WIII	ZGGG	201803021005	China	
176.	SJY1184		WADD	ZSHC	201803021010	China	
177.	CTV5814		WADD	ZSQD	201803021340	China	
178.	CSN3038		WIII	ZGGG	201803021435	China	
179.	GIA802		WADD	ZLXY	201803021630	China	
180.	GIA896		WADD	ZGGG	201803021810	China	
181.	LNI2743		WAMM	ZGHA	201803021815	China	
182.	GIA886		WADD	ZUUU	201803022000	China	
183.	LNI2639		WADD	ZUUU	201803022010	China	
184.	CTV8816		WADD	ZPPP	201803022010	China	
185.	GIA890		WIII	ZBAA	201803022045	China	
186.	LNI2633		WADD	ZLXY	201803022100	China	
187.	SJY1140		WADD	ZGSZ	201803022120	China	
188.	GIA892		WADD	ZBAA	201803030000	China	
189.	CXA892		WADD	ZSAM	201803030020	China	
190.	CSN626		WADD	ZGGG	201803030100	China	
191.	CCA978		WIII	ZBAA	201803030115	China	
192.	CSN8354		WIII	ZGSZ	201803030120	China	
193.	CSN6066		WADD	ZGSZ	201803030130	China	
194.	BTK7001		WIII	ZGKL	201803030400	China	
195.	CXA896		WIII	ZSFZ	201803030750	China	
196.	BTK7001		WIII	ZGKL	201803022000	Singapore	
197.	BTK7083		WIHH	WIDD	20180302735	Singapore	
198.	CES5070		WIII	ZSPD	201803021630	Singapore	
199.	PKELX		WIDD	VTBD	201803020325	Thailand	
200.	AWQ154		WIMM	VTBD	201803020335	Thailand	
201.	CTV943		WIDD	WIII	20180302715	Singapore	
202.	GIA850		WIMM	WSSS	20180302630	Singapore	

	State of Departure	Aircraft ID	Departure Aerodrome	Destination Aerodrome	EOBT	Reporting State
203.	INDONESIA	GIA890	WIII	ZBAA	201803021350	Singapore
204.		GIA894	WIII	ZSPD	201803021655	Singapore
205.		LNI174	WILL	WIDD	20180302845	Singapore
206.		LNI237	WIDD	WIBB	20180302300	Singapore
207.		LNI810	WIDD	WITT	20180302400	Singapore
208.		LNI927	WADD	WIDD	20180302100	Singapore
209.		PKPAW	WIHH	WIDM	201803022200	Singapore
210.		PKTNE	WIDM	WIHH	20180302715	Singapore
211.		PKWLG	WIBI	WIDD	20180302305	Singapore
212.		SLK257	WIBB	WSSS	201803021125	Singapore
213.		SQS7239	WIDS	WIBB	20180302	Singapore
214.		SQS7240	WIBB	WIDT	20180302210	Singapore
215.		TMG022	WIHH	WSSS	20180302130	Singapore
216.		XAR753	WIDM	WIDN	20180302755	Singapore
217.		IRAN	IRM079	OIIE	ZBAA	201803022120
218.	IRM081		OIIE	ZGGG	201803022355	China
219.	IRM077		OIIE	ZSPD	201803022355	China
220.	IRM051		OIIE	VTBS	201803011915	Thailand
221.	IRM051		OIIE	VTBS	201803021825	Thailand
222.	ITALY	THA945	LIRF	VTBS	201803021230	Thailand
223.	JORDAN	RJA180	OJAI	VTBS	201803020015	Thailand
224.	KAZAKHSTAN	ABW539	UAKK	VHHH	201803021445	China
225.	KUWAIT	KAC417	OKBK	RPLL	201803020030	Thailand
226.	KYRGYZSTAN	THY342	UCFM	ZMUB	201803030445	China
227.	LAO PDR	CES2590	VLVT	ZPPP	201803021115	China
228.		CSC8710	VLVT	ZPPP	201803021130	China
229.		LAO855	VLVT	ZGHA	201803021550	China
230.		CES2574	VLVT	ZPPP	201803021715	China
231.		CHH446	VLVT	ZGSZ	201803021840	China
232.		LAO815	VLVT	ZPPP	201803030750	China
233.		LAO633	VLLB	VTBS	201803020030	Thailand
234.		BKP942	VLLB	VTBS	201803020520	Thailand
235.		BKP946	VLLB	VTBS	201803021025	Thailand
236.		LUXEMBOURG	CLX790	ELLX	RCTP	201803021335
237.	CLX976		ELLX	ZHCC	201803022045	China
238.	CLX742		ELLX	RJNK	201803030220	China
239.	MALAYSIA	APG7111	WMKK	RPVM	20180302320	Singapore
240.		AXM1285	WBGB	WSSS	20180302325	Singapore
241.		AXM138	WMKK	VHHH	201803022215	Singapore
242.		AXM1394	WMKJ	ZGGG	201803021355	Singapore
243.		AXM142	WMKK	ZGOW	20180302305	Singapore

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244.	MALAYSIA	AXM1490	WMKJ	VVTS	201803022305	Singapore
245.		AXM1807	WMKJ	VTBD	201803021120	Singapore
246.		AXM328	WMKK	WAHS	201803022310	Singapore
247.		AXM478	WMKK	WIOO	201803022225	Singapore
248.		AXM5030	WMKJ	WBGS	20180302140	Singapore
249.		AXM5031	WBGS	WMKJ	20180302345	Singapore
250.		AXM5092	WMKL	WBGG	20180302220	Singapore
251.		AXM5433	WBGG	WMKP	20180302130	Singapore
252.		AXM5596	WMKJ	WBKW	20180302545	Singapore
253.		AXM5597	WBKW	WMKJ	20180302850	Singapore
254.		AXM5745	WBKW	WMKK	20180302215	Singapore
255.		AXM5871	WBGS	WMKK	201803021100	Singapore
256.		AXM5873	WBGS	WMKK	20180302710	Singapore
257.		AXM5875	WBGS	WMKK	201803021345	Singapore
258.		AXM5877	WBGS	WMKK	2018030220	Singapore
259.		AXM5879	WBGS	WMKK	20180302215	Singapore
260.		AXM5883	WBGS	WMKK	20180302415	Singapore
261.		AXM6415	WMKP	WMKJ	20180302945	Singapore
262.		AXM6419	WMKP	WMKJ	201803021335	Singapore
263.		AXM188	WMKK	VMMC	201803021010	China
264.		AXM142	WMKK	ZGOW	201803021110	China
265.		AXM186	WMKK	VMMC	201803021525	China
266.		AXM2138	WBKK	ZHHH	201803021800	China
267.		AXM174	WMKK	ZGHA	201803021805	China
268.		CXA8002	WBKK	ZBAA	201803021900	China
269.		MXD8106	WBKK	ZHCC	201803021900	China
270.		MAS518	WMKK	ZUCK	201803021940	China
271.		MXD640	WBKK	ZGHA	201803022035	China
272.		FDX6053	WMKP	ZGGG	201803022115	China
273.		AXM1394	WMKJ	ZGGG	201803022215	China
274.		MXD610	WMKL	ZUUU	201803022225	China
275.		AXM1241	WBGG	ZGSZ	201803022315	China
276.		CSN8404	WMKK	ZGHA	201803030735	China
277.		VDA3162	WMKK	ROAH	201803022030	Japan
278.		CSN8404	WMKK	ZGHA	201803022335	Singapore
279.		EVA218	WMKK	RCTP	20180302450	Singapore
280.		FFM3515	WMSA	WSSS	20180302705	Singapore
281.		JNA096	WMKJ	RKSI	201803021930	Singapore
282.		MAS2606	WMKK	WBKK	201803021100	Singapore
283.		MAS2636	WMKK	WBKL	201803021130	Singapore
284.		MXD304	WMSA	WIDD	20180302220	Singapore

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285.	MALAYSIA	MYU901	WMKP	WICC	20180302600	Singapore	
286.		N110TP	WMKI	WMKJ	2018030230	Singapore	
287.		N188TL	WMKI	WBKW	20180302700	Singapore	
288.		N555LK	WMKI	WSSL	20180302900	Singapore	
289.		NR1	WBKK	WMKN	201803021230	Singapore	
290.		PKPBS	WMSA	WIDD	20180302400	Singapore	
291.		PKPBT	WMSA	WIDD	20180302330	Singapore	
292.		AXM1807	WMKJ	VTBD	201803021120	Thailand	
293.		AXM562	WMKK	VLLB	201803020455	Thailand	
294.		MXD271	WMKK	VIAR	201803021000	Thailand	
295.		XAX184	WMKK	VIJP	201803021100	Thailand	
296.		MAS518	WMKK	ZUCK	201803021155	Thailand	
297.		AXM31	WMKK	VEBS	201803021410	Thailand	
298.		KLM810	WMKK	EHAM	201803021550	Thailand	
299.		MXD590	WMSA	VTSS	201803020150	Thailand	
300.		XAX501	WMKK	RKPC	201803022240	Singapore	
301.		MEXICO	ANA179	MMMX	RJAA	201803020700	Japan
302.			AMX058	MMMX	RJAA	201803020650	Japan
303.		MYANMAR	JSA582	VYYY	WSSS	20180302500	Singapore
304.			JSA584	VYYY	WSSS	201803021305	Singapore
305.	MMA711		VYYY	ZGGG	201803021030	China	
306.	CCA416		VYYY	ZPPP	201803021430	China	
307.	CES2032		VYYY	ZPPP	201803021640	China	
308.	CSN8472		VYYY	ZGGG	201803021910	China	
309.	ANA814		VYYY	RJAA	201803022340	China	
310.	CCA906		VYYY	ZBAA	201803030120	China	
311.	ANA814		VYYY	RJAA	201803021540	Japan	
312.	AIQ245		VYMD	VTBD	201803020625	Thailand	
313.	BKP706		VYYY	VTBS	201803012320	Thailand	
314.	UBA001		VYYY	WSSS	201803020045	Thailand	
315.	MMA335		VYYY	VTBS	201803020100	Thailand	
316.	MMA231		VYYY	WSSS	201803020150	Thailand	
317.	MMA711		VYYY	ZGGG	201803020210	Thailand	
318.	UBA8027		VYYY	VHHH	201803020230	Thailand	
319.	SLK511		VYYY	WSSS	201803020300	Thailand	
320.	SIA997		VYYY	WSSS	201803020355	Thailand	
321.	CAL7916		VYYY	RCTP	201803020420	Thailand	
322.	MAS741		VYYY	WMKK	201803020450	Thailand	
323.	JSA582		VYYY	WSSS	201803020500	Thailand	
324.	HVN942		VYYY	VVTS	201803020540	Thailand	
325.	AIQ256		VYYY	VTBD	201803020625	Thailand	

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326.	MYANMAR	NOK4223	VYYY	VTPM	201803020630	Thailand
327.		BKP724	VYYY	VTCC	201803020710	Thailand
328.		THD302	VYYY	VTBS	201803020830	Thailand
329.		HDA275	VYYY	VHHH	201803021050	Thailand
330.		SLK519	VYYY	WSSS	201803021105	Thailand
331.		CSN8472	VYYY	ZGGG	201803021110	Thailand
332.		BKP704	VYYY	VTBS	201803021150	Thailand
333.		UAE388	VYYY	VDPP	201803021150	Thailand
334.		VJC918	VYYY	VVNB	201803021245	Thailand
335.		HVN956	VYYY	VVNB	201803021255	Thailand
336.		TLM207	VYYY	VTBD	201803021255	Thailand
337.		JSA584	VYYY	WSSS	201803021305	Thailand
338.		THA306	VYYY	VTBS	201803021320	Thailand
339.		NOK4239	VYYY	VTBD	201803021430	Thailand
340.		AIQ258	VYYY	VTBD	201803021510	Thailand
341.		KAL472	VYYY	RKSI	201803021720	Thailand
342.		MXD553	VYYY	WMKK	201803021725	Thailand
343.		HDA251	VYYY	VHHH	201803021835	Thailand
344.		SIA997	VYYY	WSSS	20180302355	Singapore
345.		UBA001	VYYY	WSSS	2018030245	Singapore
346.	NETHERLANDS	YZR7480	EHAM	ZBTJ	201803021635	China
347.	NEW CALEDONIA	ACI800	NWWW	RJAA	201803021400	Japan
348.	NEW ZEALAND	CHH7932	NZAA	ZGSZ	201803020800	China
349.		CSN618	NZCH	ZGGG	201803021730	China
350.		CSN306	NZAA	ZGGG	201803021800	China
351.		CSN336	NZAA	ZGGG	201803030500	China
352.	OMAN	OMA851	OOMS	ZGGG	201803021415	China
353.		OMA811	OOMS	VTBS	201803012310	Thailand
354.		OMA815	OOMS	VTBS	201803020500	Thailand
355.		OMA843	OOMS	RPLL	201803020510	Thailand
356.		OMA817	OOMS	VTBS	201803021800	Thailand
357.	PAKISTAN	CCA946	OPKC	ZBAA	201803030305	China
358.		ETD9886	OPKC	VVTS	201803021300	Thailand
359.	PHILIPPINES	CEB255	RPVI	WSSS	201803021450	Singapore
360.		JSA762	RPLL	WSSS	20180302240	Singapore
361.		MAS807	RPLL	WMKK	20180302515	Singapore
362.		CXA8004	RPVM	ZSAM	201803021240	China
363.		PAL720	RPLL	EGLL	201803021300	China
364.		OKA2762	RPVK	ZGHA	201803021415	China
365.		PAL330	RPLL	ZSAM	201803021430	China
366.		APG9820	RPVK	ZSHC	201803021545	China

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367.	PHILIPPINES	RYL098	RPVK	VMMC	201803021555	China	
368.		CXA8688	RPVK	ZSFZ	201803021740	China	
369.		CEB074	RPVK	ZSPD	201803021745	China	
370.		GAP9745	RPVK	ZSPD	201803021820	China	
371.		CEB370	RPLC	VMMC	201803022131	China	
372.		PAL398	RPVK	ZBAA	201803022135	China	
373.		GAP2388	RPVK	ZUUU	201803022250	China	
374.		APG028	RPVK	ZSPD	201803030050	China	
375.		PAL382	RPLL	ZGGG	201803030325	China	
376.		JSA763	RPLL	RJBB	201803022255	Japan	
377.		DAL180	RPLL	RJAA	201803020150	Japan	
378.		ANA870	RPLL	RJTT	201803020650	Japan	
379.		UAE333	RPLL	OMDB	201803020940	Thailand	
380.		THY85	RPLL	LTBA	201803021440	Thailand	
381.		TGW373	RPVK	WSSS	20180302750	Singapore	
382.		POLAND	CCA738	EPWA	ZBAA	201803022010	China
383.			LOT97	EPWA	RKSI	201803022240	China
384.	LOT79		EPWA	RJAA	201803021340	Japan	
385.	PORTUGAL	CBJ460	LPPT	ZBAA	201803020910	China	
386.	REP. OF KOREA	JNA095	RKSI	WMKJ	201803021210	Singapore	
387.		LNI2736	RKSI	WIDD	201803022100	Singapore	
388.		HVN423	RKPK	VVTS	201803020905	China	
389.		HVN409	RKSI	VVTS	201803020915	China	
390.		VJC863	RKSI	VVTS	201803020950	China	
391.		HVN407	RKSI	VVTS	201803021005	China	
392.		CES5054	RKTN	ZSPD	201803021100	China	
393.		KAL471	RKSI	VYYY	201803021730	China	
394.		B2226	RKPC	ZSPD	201803021730	China	
395.		TWB129	RKTN	VVDN	201803022100	China	
396.		TWB149	RKTN	VVDN	201803022210	China	
397.		AAR731	RKSI	VVTS	201803030630	China	
398.		ABL116	RKTN	RJAA	201803022350	Japan	
399.		TWB311	RKTN	RJBB	201803022335	Japan	
400.		TWB277	RKTN	ROAH	201803020025	Japan	
401.		TWB287	RKTN	RJBB	201803020615	Japan	
402.		ABL152	RKTN	RJFF	201803020500	Japan	
403.		ABL128	RKTN	RJBB	201803020615	Japan	
404.		ABL184	RKTN	RJCC	201803020610	Japan	
405.		TWB233	RKTN	RJFF	201803020900	Japan	
406.		VJT570	RKSS	VTSM	201803020730	Thailand	
407.		TWB105	RKTN	VTBS	201803021240	Thailand	

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408.	RUSSIA	SIA361	UDD	WSSS	201803021145	Singapore	
409.		SHU1761	UHHH	ZYJM	201803020830	China	
410.		SBI503	UIII	RKSI	201803021040	China	
411.		SHU9757	UHHH	ZYFY	201803021325	China	
412.		KAR2511	UNKL	VVCR	201803021655	China	
413.		ABG8585	UNOO	VTSP	201803021800	China	
414.		SBI583	UNNT	VTBS	201803021940	China	
415.		ABW585	USSS	ZUUU	201803022030	China	
416.		TYA519	UHW	ZJSY	201803022205	China	
417.		SHU5468	UHW	ZBAA	201803022245	China	
418.		SVR873	USSS	ZBAA	201803022325	China	
419.		KTK5443	UNNT	VVCR	201803022335	China	
420.		KTK8543	UIII	VVCR	201803030020	China	
421.		ABG8539	USNN	VTBU	201803030025	China	
422.		KTK2421	UNKL	VTBU	201803030030	China	
423.		SBI873	UNNT	ZBAA	201803030110	China	
424.		KTK4221	UNEE	VTBU	201803030130	China	
425.		SBI509	UIII	ZBAA	201803030145	China	
426.		CSC8100	ULLI	ZUUU	201803030245	China	
427.		SBI501	UNNT	RKSI	201803030340	China	
428.		SBI581	UNNT	VTBS	201803030420	China	
429.		ABG8515	UIII	VTSG	201803030430	China	
430.		KAR2553	UHBB	VVCR	201803030430	China	
431.		RSY9885	USSS	ZJSY	201803030740	China	
432.		JAL422	UDD	RJAA	201803021400	Japan	
433.		ABG8587	UHHH	VTBU	201803021645	Thailand	
434.		KTK7843	ULLI	VVCR	201803021235	Thailand	
435.		KTK4221	UNEE	VTBU	201803021730	Thailand	
436.		KTK2421	UNKL	VTBU	201803021630	Thailand	
437.		SBI581	UNNT	VTBS	201803012000	Thailand	
438.		KTK5421	UNNT	VTBU	201803012100	Thailand	
439.		SBI583	UNNT	VTBS	201803021140	Thailand	
440.		THA975	UDD	VTBS	201803011540	Thailand	
441.		SIA361	UDD	WSSS	201803021145	Thailand	
442.		KTK7733	UDD	VTSP	201803021300	Thailand	
443.		KAR2929	UO	VTSP	201803021235	Thailand	
444.		KAR2497	UW	VTSP	201803020005	Thailand	
445.		SAUDI ARABIA	SVA884	OERK	ZGGG	201803030730	China
446.			SVA2060	OEJN	WAAA	201803021725	Singapore
447.			SVA816	OEJN	WIII	201803021625	Singapore
448.			PAL683	OEDF	RPLL	201803021625	Thailand

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449.	SAUDI ARABIA	SVA840	OEJN	WMKK	201803011735	Thailand
450.		SVA836	OEJN	WSSS	201803012235	Thailand
451.		SVA834	OEJN	WMKK	201803020115	Thailand
452.		PAL663	OEJN	RPLL	201803021220	Thailand
453.		SVA816	OEJN	WIII	201803021625	Thailand
454.		SVA840	OEJN	WMKK	201803021735	Thailand
455.		SVA828	OERK	WMKK	201803012225	Thailand
456.		SVA860	OERK	RPLL	201803012250	Thailand
457.		PAL655	OERK	RPLL	201803021625	Thailand
458.		SVA822	OERK	WIII	201803022225	Singapore
459.		SVA836	OEJN	WSSS	201803022235	Singapore
460.		SINGAPORE	SAF7801	WSAT	VTUN	201803020045
461.	SOUTH AFRICA	SAA286	FAOR	VHHH	201803021145	Thailand
462.	SPAIN	SIA387	LEBL	WSSS	201803021055	Singapore
463.		CCA908	LEMD	ZBAA	201803021810	China
464.		CCA840	LEBL	ZSPD	201803021815	China
465.		IBE6889	LEMD	ZSPD	201803021920	China
466.		KAL916	LEBL	RKSI	201803030310	China
467.	SWEDEN	N4CP	ESSA	WSSL	201803022150	Singapore
468.		TOM402	ESGG	VTSP	201803021055	Thailand
469.		THA963	ESSA	VTSP	201803011945	Thailand
470.		TOM532	ESSA	VTSP	201803021130	Thailand
471.		THA961	ESSA	VTBS	201803021230	Thailand
472.	SWITZERLAND	SWR196	LSZH	ZBAA	201803021930	China
473.		SWR188	LSZH	ZSPD	201803022000	China
474.		SWR138	LSZH	VHHH	201803030540	China
475.		SWR160	LSZH	RJAA	201803021200	Japan
476.		SWR160	LSZH	RJAA	201803021200	Japan
477.		SWR178	LSZH	WSSS	201803022145	Singapore
478.		SWR180	LSZH	VTBS	201803011655	Thailand
479.		THA971	LSZH	VTBS	201803021215	Thailand
480.	THAILAND	SAF9812	VTUN	WSAP	20180302550	Singapore
481.	TURKEY	THY88	LTBA	RKSI	201803030040	China
482.		THY70	LTBA	VHHH	201803030700	China
483.		THY24	LTBA	RCTP	201803030710	China
484.		THY52	LTBA	RJAA	201803030710	China
485.		THY90	LTBA	RKSI	201803030720	China
486.		THY26	LTBA	ZSPD	201803030720	China
487.		THY20	LTBA	ZBAA	201803030745	China
488.		THY72	LTBA	ZGGG	201803030755	China
489.		THY52	LTBA	RJAA	201803022310	Japan

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490.	TURKEY	THY056	LTBA	WIII	201803022335	Singapore
491.		THY64	LTBA	VTBS	201803011750	Thailand
492.		THY68	LTBA	VTBS	201803012255	Thailand
493.		THY54	LTBA	WSSS	201803012325	Thailand
494.		THY54	LTBA	WSSS	201803022325	Singapore
495.	UKRAINE	AUI287	UKBB	ZBAA	201803021730	China
496.	UAE	SQC7395	OMSJ	WSSS	201803021835	Singapore
497.		UAE366	OMDB	RCTP	201803020845	China
498.		ETD818	OMAA	ZUUU	201803021215	China
499.		UAE312	OMDB	RJTT	201803021235	China
500.		ABY270	OMSJ	ZWWW	201803021335	China
501.		UAE362	OMDB	ZGGG	201803021345	China
502.		ETD888	OMAA	ZBAA	201803030145	China
503.		ETD834	OMAA	VHHH	201803030150	China
504.		ETD434	OMAA	RPLL	201803030240	China
505.		ETD424	OMAA	RPLL	201803030700	China
506.		UAE316	OMDB	RJBB	201803030705	China
507.		UAE316	OMDB	RJBB	201803022305	Japan
508.		UAE312	OMDB	RJTT	201803020435	Japan
509.	UK	BAW11	EGLL	WSSS	201803021905	Singapore
510.		BAW15	EGLL	WSSS	201803022145	Singapore
511.		SIA317	EGLL	WSSS	201803021055	Singapore
512.		SIA319	EGLL	WSSS	201803022035	Singapore
513.		SIA321	EGLL	WSSS	201803022205	Singapore
514.		BAW1039	EGLL	ZBAA	201803021850	China
515.		BAW17	EGLL	RKSI	201803022055	China
516.		BAW169	EGLL	ZSPD	201803022200	China
517.		CCA938	EGLL	ZBAA	201803030140	China
518.		KAL908	EGLL	RKSI	201803030250	China
519.		AAR522	EGLL	RKSI	201803030410	China
520.		CES552	EGLL	ZSPD	201803030500	China
521.		CAL070	EGKK	RCTP	201803030515	China
522.		PAL721	EGLL	RPLL	201803030550	China
523.		CBJ432	EGLL	ZSQD	201803030600	China
524.		CSN304	EGLL	ZGGG	201803030630	China
525.		BAW5	EGLL	RJAA	201803021350	Japan
526.		ANA212	EGLL	RJTT	201803021900	Japan
527.		JAL44	EGLL	RJTT	201803021900	Japan
528.		JAL42	EGLL	RJTT	201803020930	Japan
529.		BAW7	EGLL	RJTT	201803021050	Japan
530.		NRS7409	EGKK	WSSS	201803012235	Thailand

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531.	UK	BAW9	EGLL	VTBS	201803011535	Thailand
532.		EVA068	EGLL	VTBS	201803012120	Thailand
533.		THA917	EGLL	VTBS	201803012135	Thailand
534.		SIA317	EGLL	WSSS	201803021055	Thailand
535.		THA911	EGLL	VTBS	201803021150	Thailand
536.	USA	SIA31	KSFO	WSSS	201803021730	Singapore
537.		UAL1	KSFO	WSSS	20180302640	Singapore
538.		B3277	KSFO	ZBAA	201803021000	China
539.		CPA899	KEWR	VHHH	201803021400	China
540.		CCA996	KIAH	ZBAA	201803021405	China
541.		CLX731	PANC	ZHCC	201803021410	China
542.		CCA770	KLAX	ZGSZ	201803021450	China
543.		DAL129A	KSEA	ZBAA	201803021515	China
544.		CAO1050	KJFK	ZSPD	201803021555	China
545.		CCA838	PHNL	ZBAA	201803021600	China
546.		AAL193	KLAX	VHHH	201803021625	China
547.		HAL897	PHNL	ZBAA	201803021750	China
548.		CAO1054	KORD	ZBAA	201803021940	China
549.		CSN300	KJFK	ZGGG	201803022340	China
550.		UAL89	KEWR	ZBAA	201803030115	China
551.		UAL807	KIAD	ZBAA	201803030215	China
552.		CSC8646	PGSN	ZGGG	201803030230	China
553.		UAL86	KEWR	ZSPD	201803030305	China
554.		UAL851	KORD	ZBAA	201803030320	China
555.		CPA807	KORD	VHHH	201803030405	China
556.		CXA846	KSEA	ZGSZ	201803030425	China
557.		CES588	KJFK	ZSPD	201803030425	China
558.		DAL39	KSEA	VHHH	201803030540	China
559.		ANA9	KJFK	RJAA	201803021545	Japan
560.		UAL79	KEWR	RJAA	201803021550	Japan
561.		JAL3	KJFK	RJAA	201803021605	Japan
562.		N51GJ	PADK	RJCC	201803022200	Japan
563.		JAL7	KBOS	RJAA	201803021740	Japan
564.		JAL5	KJFK	RJTT	201803021750	Japan
565.		UAL143	KDEN	RJAA	201803021920	Japan
566.		UAL151	PGUM	RJBB	201803022105	Japan
567.		UAL137	PGUM	RJGG	201803022125	Japan
568.		UAL828	PGUM	RJAA	201803022100	Japan
569.		ANA109	KJFK	RJTT	201803022215	Japan
570.		UAL165	PGUM	RJFF	201803022245	Japan
571.		UAL196	PGUM	RJAA	201803020305	Japan

	State of Departure	Aircraft ID	Departure Aerodrome	Destination Aerodrome	EOBT	Reporting State
572.	USA	HAL855	PHNL	RJTT	201803020305	Japan
573.		TWB312	PGUM	RJBB	201803020610	Japan
574.		TWB9326	PGUM	RJAA	201803020710	Japan
575.		UAL171	PGUM	RJGG	201803020655	Japan
576.		UAL873	PGUM	RJAA	201803020710	Japan
577.		DAL297	PGSN	RJAA	201803020620	Japan
578.		JAL942	PGUM	RJAA	201803020715	Japan
579.		REPAT59	PGUA	VTBU	201803011807	Thailand
580.		VIET NAM	CSN8348	VVPQ	ZGGG	201803022125
581.	CSC8074		VVCR	ZUUU	201803030230	China
582.	BKP992		VVPQ	VTBS	201803020650	Thailand