

Explanatory notes: CARDIT flight quality report

Doc v1.4, 2019.04.04

Introduction

This report compares flight information appearing in CARDIT messages with a global reference of flight details. All differences found are reported, per type of issue, with details on the mail concerned (consignment ID) and on the correction needed.

Issues with flight data occur typically when the postal operator does not keep its flight information fully up-to-date and uses flights or flight details that are not valid anymore.

The CARDIT data used for the report is a monthly sample of 2 days, for CARDIT v2.1 only. These 2 days are chosen so that they are different weekdays. It is planned to use a full week instead of 2 days in the near future.

Currently, this report is only generated for designated operators sending CARDIT v2.1 from the POST*Net network.

Report organization

Five types of flight anomalies are reported:

1. Flight unknown
2. Flight invalid on day used
3. Incorrect origin and/or destination airport
4. Flight not valid on this day of week
5. Incorrect planned departure and/or arrival time

In order to keep the report short, for each anomaly, each flight is listed once only, even if it is used for several consignments, for CARDIT messages to several airlines and on different dates.

For anomalies 1,2, 3 and 5, a flight is identified by the airline code, flight number, origin and destination airports, departure and arrival times.

For anomaly 4 (flight not valid on this day of the week), a flight is identified by the above plus the departure weekday.

The aspect of the report is the same for all anomalies: it indicates the first partner (airline) EDI address for which the error occurred, the flight details extracted from CARDIT (airline code, flight number, origin airport IATA code, destination airport IATA code, first departure date-time, first week day, first arrival date-time), correction information and the corresponding first consignment identifier for which the error occurred.

Please note that the weekday is represented as 1 for Monday, 2 for Tuesday... 7 for Sunday.

An anonymized sample report is shown below:

Flight issues in CARDIT - March 2019

Operator: [REDACTED]

Issues by type

CARDIT sent from: [REDACTED]

Issue: **1 Flight unknown**

EDI dest	Flight #	from	to	Departure	week day	Arrival	correct flight details	consignment
AFR11	AF 390M	CDG	BRU	2019-04-02 17:00	2	2019-04-02 21:31		[REDACTED] 04346
AFR11	AF 456M	CDG	MMX	2019-03-30 13:01	6	2019-03-31 18:30		[REDACTED] 04349
AFR11	AF 500M	CDG	ZRH	2019-03-30 20:02	6	2019-04-01 08:01		[REDACTED] 03087
AFR11	AF 674M	CDG	MAD	2019-04-01 23:31	1	2019-04-02 17:30		[REDACTED] 04345
AFR11	AF 76M	CDG	LHR	2019-03-30 22:31	6	2019-04-01 07:30		[REDACTED] 03086

Issue: **2 Flight invalid on day used**

EDI dest	Flight #	from	to	Departure	week day	Arrival	correct flight details	consignment
AFR11	AF 521	BKO	CDG	2019-03-31 23:05	7	2019-04-01 05:40		[REDACTED] 04345
AFR11	AF 860	CDG	LFW	2019-03-29 15:35	5	2019-04-01 21:00		[REDACTED] 02399
AFR11	DL 8343	CDG	MPX	2019-03-30 17:05	6	2019-03-31 18:35		[REDACTED] 03084

Issue: **3 Incorrect origin and/or destination airport**

EDI dest	Flight #	from	to	Departure	week day	Arrival	correct flight details	consignment
AFR11	AF 718	CDG	DKR	2019-03-28 15:40	4	2019-03-29 20:25	Valid dest: DSS	[REDACTED] 04342

Issue: **5 Incorrect planned departure and/or arrival time**

EDI dest	Flight #	from	to	Departure	week day	Arrival	correct flight details	consignment
AFR11	AF 344	CDG	YUL	2019-03-28 13:45	4	2019-03-29 15:50	Valid dpt/arrv times: 13:45/16:50	[REDACTED] 04340
AFR11	AF 521	BKO	CDG	2019-04-01 23:05	1	2019-04-02 05:40	Valid dpt/arrv times: 22:35/06:00	[REDACTED] 04346
AFR11	AF 8	CDG	JFK	2019-03-28 18:10	4	2019-03-29 20:50	Valid dpt/arrv times: 18:10/21:50	[REDACTED] 04339

Each flight anomaly is detailed below:

1. Flight unknown

The combination of airline code + flight number does not exist in the flight reference database.

For this anomaly, no suggestion is provided in the report: column 'correct flight details' is empty.

2. Flight invalid on day used

The flight exists in the reference database, but its validity ranges do not include the day when it is used. Typically, it may have been valid in the recent past, but it is not valid anymore. Or it is not yet valid, or is temporarily not valid (in between two validity periods).

For this anomaly, no suggestion is provided in the report: column 'correct flight details' is empty.

3. Incorrect origin and/or destination airport

The flight is valid, but its origin and/or destination airport is/are not.

For this anomaly, column 'correct flight details' indicates the valid airport to be used at origin and/or destination.

4. Flight not valid on this day of week

The flight is valid, but not on the weekday (Monday to Sunday) it is used. For this anomaly, column 'correct flight details' indicates the valid days for the flight (1: Monday, 2: Tuesday... 7: Sunday).

5. Incorrect planned departure and/or arrival time

The flight is valid, but its departure and/or arrival time is incorrect. For this anomaly, column 'correct flight details' provides the correct departure and arrival times.

This error is not raised in case the difference between the time in the message and in the reference is less or equal to 10 minutes.