

Luftfahrzeugseitig generierte Daten - Verwendung in flightradar24 -

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Zum Autor

RA Mag. iur. Joachim J. Janezic, MEng. (JJJ) ist Rechtsanwalt in Graz und Gründungspartner der Janezic & Schmidt Rechtsanwälte OG.

JJJ hat sich auf das Thema Luftfahrtrecht spezialisiert und vertritt – neben seiner Tätigkeit als Vortragender – zahlreiche "stakeholder" (wie Luftfahrtunternehmen, Luftfahrzeughalter, Piloten, Wartungsbetriebe, Flugplätze etc...).

Darüber hinaus ist JJJ **Vorstand des Institutes für Österreichisches und Internationales Luftfahrtrecht** mit dem Sitz in Graz und Autor zahlreicher einschlägiger Fachbeiträge.

In den Jahren 2014 bis 2016 hat JJJ das Studium "Traffic Accident Research – Aviation Safety" an der TU Graz absolviert.

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Warning!

- Just an example:



- There are **a lot** of providers with similar services!
 - just google "real time ATC"
- This presentation is **not** to apportion blame on flightradar24!

Safety Investigation

- Flight Data Recorder (FDR):



- Cockpit Voice Recorder (CVR):



- Cockpit Image Recorder (CIR):



Legal Basis

- Safety Investigation:
 - Regulation (EU) No 996/2010
- Accidents & Incidents Reporting:
 - Regulation (EU) No 376/2014
- Air Operations:
 - Regulation (EU) No 965/2012
- very strict rules on:
 - preservation, production, protection & use
 - e.g. Art. 14 Reg (EU) No 996/2010
-> "sensitive safety information"

Maintenance & Navigation

- e.g. engine data
 - DLH Airbus A340-600 engine startup
- e.g. GPS-recordings
 - DA42 accident Triebener Tauern

Legal Basis

- Airworthiness Requirements
- Navigational Requirements

- no legal protection of such data

ATC Data

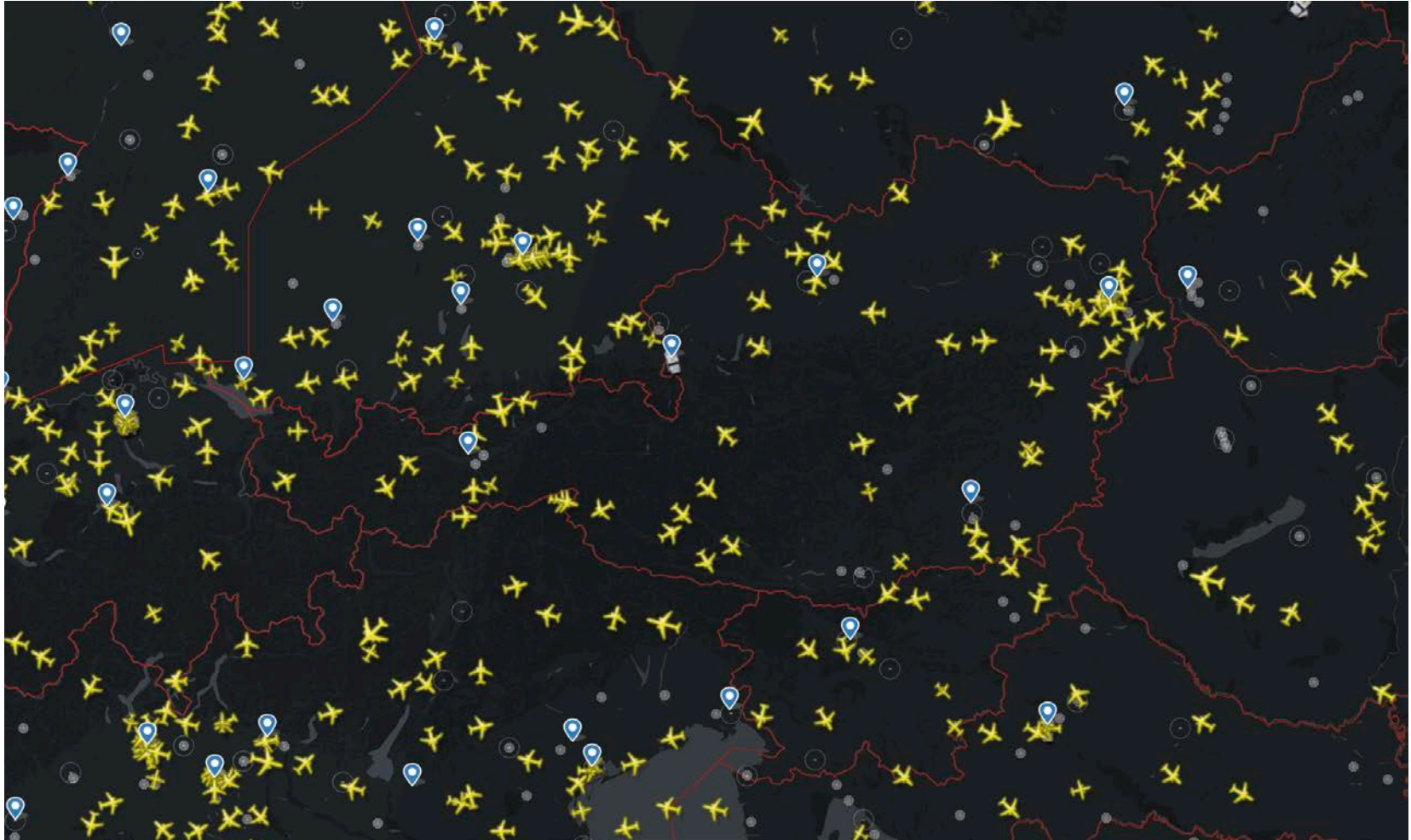
- Radar



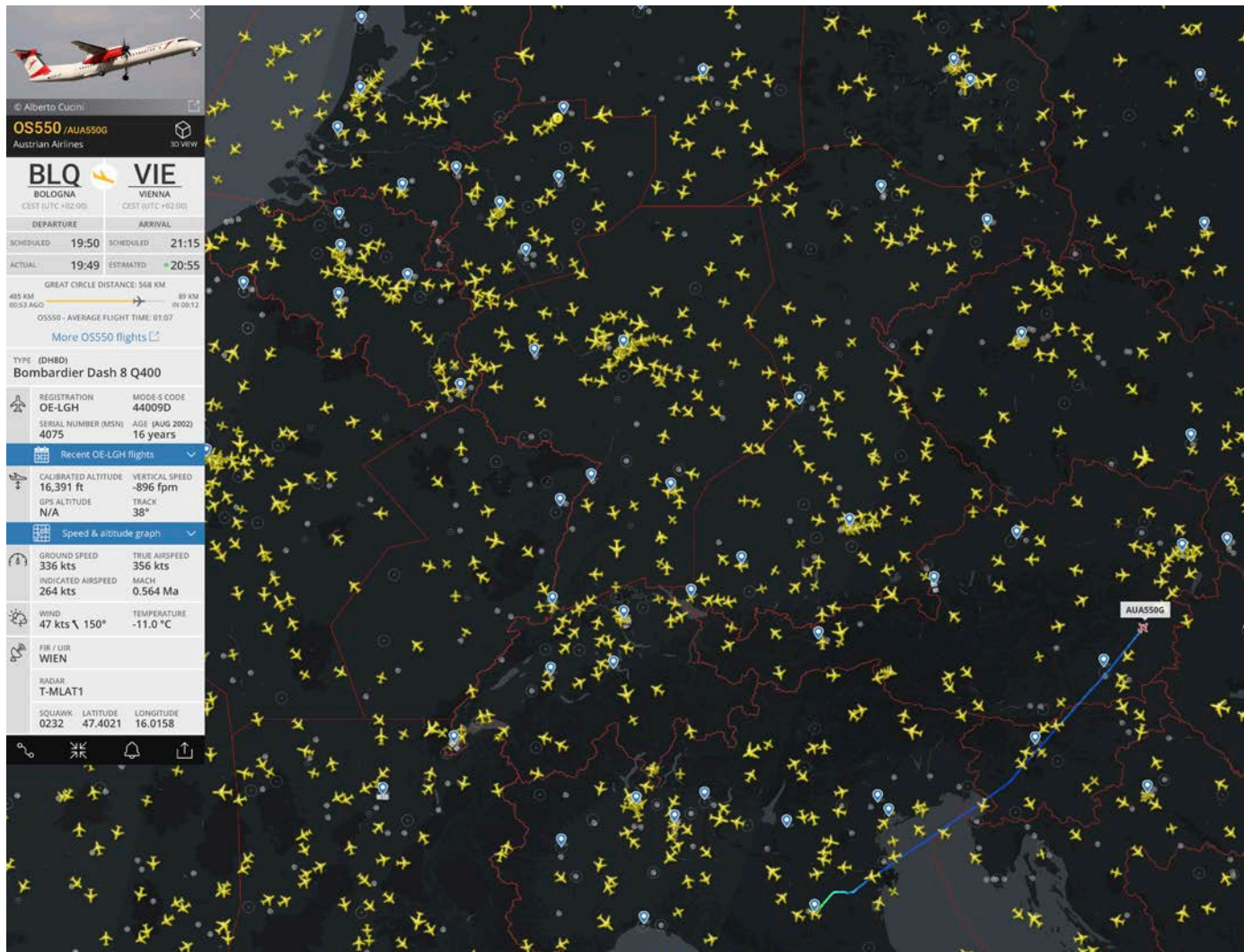
- Transponder



flightradar24



flightradar24



ADS-B

- ADS-B
 - automatic dependent surveillance – broadcast
 - primarily for ATC-purposes:
 - safety & efficiency



ADS-B

Will the information broadcast by ADS-B Out be encrypted for security purposes?


ADS-B data can be received by any aircraft, vehicle, or ground station equipped to receive ADS-B. No specific encryption is specified.

flightradar24

- historical data

Flight history for aircraft - OE-LGH

AIRCRAFT Bombardier Dash 8 Q400	TYPE CODE DH8D	MODE S 44009D
AIRLINE Austrian Airlines	Code OS / AUA	SERIAL NUMBER (MSN) 4075
OPERATOR Austrian Airlines	OS / AUA	AGE (Aug 2002) 16 years



DATE	FROM	TO	FLIGHT	FLIGHT TIME	STD	ATD	STA	STATUS	
12 Sep 2018	Dusseldorf (DUS)	Linz (LNZ)	OS212	-	20:25	-	21:50	Scheduled	Play
12 Sep 2018	Linz (LNZ)	Dusseldorf (DUS)	OS211	-	18:20	-	19:50	Scheduled	Play
12 Sep 2018	Dusseldorf (DUS)	Linz (LNZ)	OS210	-	16:20	-	17:45	Scheduled	Play
12 Sep 2018	Linz (LNZ)	Dusseldorf (DUS)	OS209	-	14:15	-	15:45	Scheduled	Play
12 Sep 2018	Dusseldorf (DUS)	Linz (LNZ)	OS206	-	08:35	-	10:00	Scheduled	Play
12 Sep 2018	Linz (LNZ)	Dusseldorf (DUS)	OS205	-	06:30	-	08:00	Scheduled	Play
11 Sep 2018	Vienna (VIE)	Linz (LNZ)	OS957	-	22:20	-	23:00	Scheduled	Play
11 Sep 2018	Bologna (BLQ)	Vienna (VIE)	OS550	-	19:50	19:49	21:15	Estimated 20:53	Download KML, Download CSV, Live
11 Sep 2018	Vienna (VIE)	Bologna (BLQ)	OS549	-	17:45	17:55	19:05	Unknown	Download KML, Download CSV, Play
11 Sep 2018	Innsbruck (INN)	Vienna (VIE)	OS906	0:52	15:10	15:15	16:15	Landed 16:06	Download KML, Download CSV, Play
11 Sep 2018	Frankfurt (FRA)	Innsbruck (INN)	OS286	0:50	12:20	12:53	13:25	Landed 13:44	Download KML, Download CSV, Play
11 Sep 2018	Innsbruck (INN)	Frankfurt (FRA)	OS285	0:54	10:35	10:55	11:45	Landed 11:49	Download KML, Download CSV, Play
11 Sep 2018	Frankfurt (FRA)	Innsbruck (INN)	OS278	0:52	08:50	09:00	09:55	Landed 09:51	Download KML, Download CSV, Play
11 Sep 2018	Innsbruck (INN)	Frankfurt (FRA)	OS277	-	06:35	06:38	07:45	Unknown	Download KML, Download CSV, Play

Legal Basis

- Regulation (EU) No 1207/2011
 - data according to Annex II, Part A – C

- Data protection
 - there is no such thing
 - except of **GDPR**

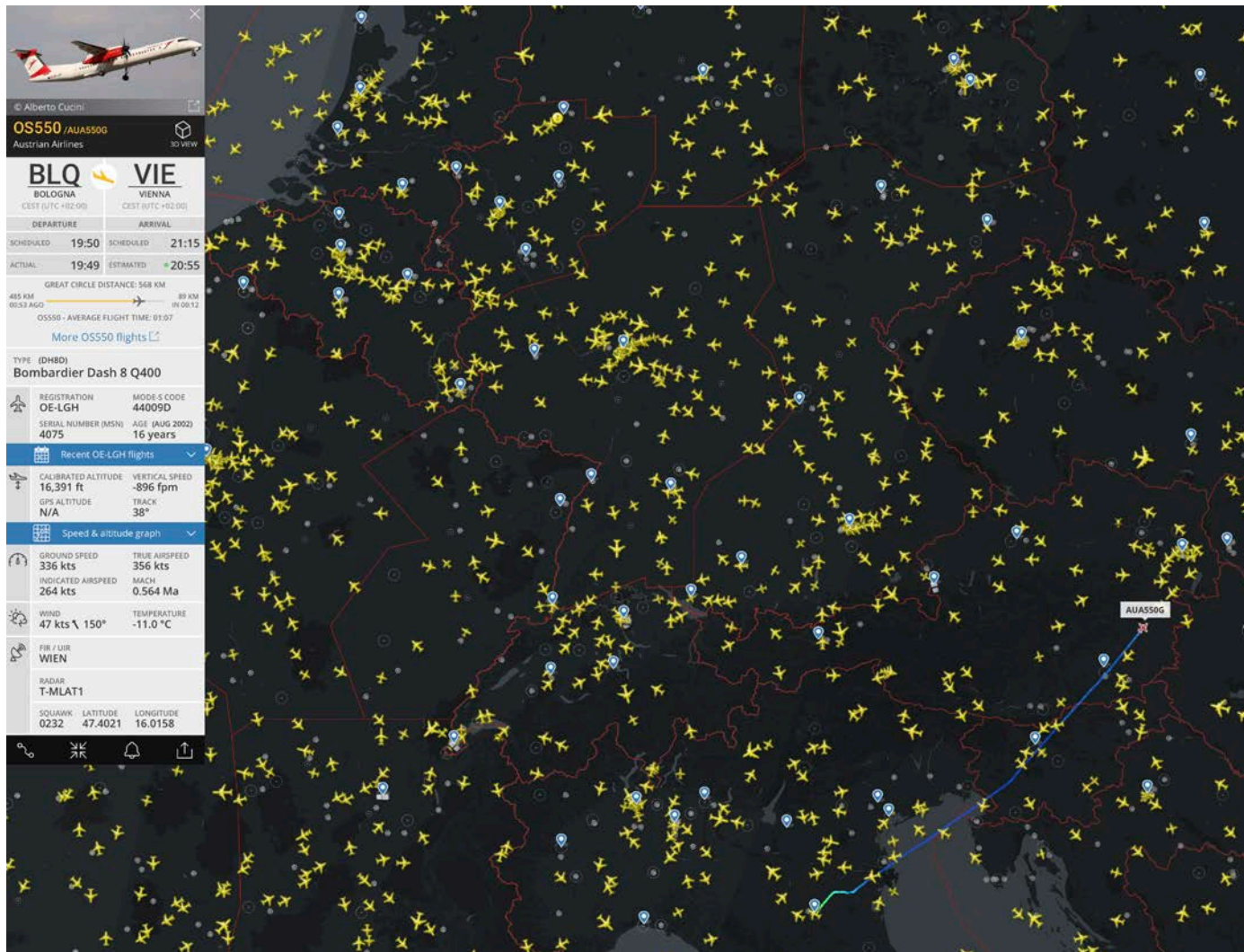
wait a minute...

Art. 1 GDPR

Subject-matter and objectives

1. This Regulation lays down rules relating to the protection of natural persons with regard to the processing of personal data and rules relating to the free movement of personal data.
2. This Regulation protects fundamental rights and freedoms of natural persons and in particular their right to the protection of personal data.
3. The free movement of personal data within the Union shall be neither restricted nor prohibited for reasons connected with the protection of natural persons with regard to the processing of personal data.

which personal data?



but there are not only airliners...

Flight history for aircraft - OE-ABM

AIRCRAFT: Berkman RF-1
 OPERATOR: Private owner
 ULAC Code: 4406C5
 MODE S: 02
 SERIAL NUMBER (MSN):
 Code: AGE

DATE	FROM	TO	FLIGHT	FLIGHT TIME	STD	ATD	STA	STATUS
09 Sep 2018	Elba (EBA)	Hohenems Dornbirn (HOH)	(OEABM)	2:33	-	09:43	-	Landed 12:16
07 Sep 2018	Cannes (CEQ)	Elba (EBA)	(OEABM)	1:24	-	15:07	-	Landed 16:31
07 Sep 2018	-	-	(OEABM)	-	-	-	-	Unknown
07 Sep 2018	Carcassonne (CCF)	Aix-en-Provence (QXB)	(OEABM)	1:34	-	11:10	-	Landed 12:44
06 Sep 2018	-	Carcassonne (CCF)	(OEABM)	2:44	-	15:11	-	Landed 19:56
06 Sep 2018	Granada (GRX)	-	(OEABM)	-	-	13:32	-	Unknown
05 Sep 2018	Seville (SVQ)	Granada (GRX)	(OEABM)	0:53	-	20:08	-	Landed 21:00
05 Sep 2018	Cascals (CAT)	Seville (SVQ)	(OEABM)	3:53	-	09:12	-	Landed 14:05
03 Sep 2018	-	-	(OEABM)	-	-	13:59	-	Unknown

More than 365 days of OE-ABM history is available with an upgrade to a Business (730 days) subscription.

Find out

LUFTFAHRTBEHÖRDE

> Austro Control GmbH > Luftfahrtbehörde > Luftfahrzeuge > LFZ Register

Online-Abfrage

Online-Abfrage

Disclaimer

Seitens der Austro Control GmbH wird für die Richtigkeit bzw. Nachrichtigkeit der Daten bzw. der durch Ihre Online-Abfrage generierten Auswertung keine Zusage übernommen.

Kennzeichen (ohne OE-): **ABM**

Ordnungszahl:

Hersteller:

Herstellerbezeichnung:

Luftfahrzeugart: Keine Auswahl

Seriennummer:

Höchstzulässige Abflugmasse kg:

Halter:

Adresse bei Suche berücksichtigen

Suchen Zurücksetzen

Als PDF exportieren Als XLS exportieren Als CSV exportieren

Kennzeichen OE-	Ordnungszahl	Hersteller Herstellerbezeichnung Seriennummer	Höchstzul. Abflugmasse kg	Halter
ABM	20162	Berkman RF-1 02	850	Michael Berkman 6912 Hörbranz, Diezlingerstraße 50 Österreich

1 bis 1 von 1 Einträgen

Imagine there was such a "service" as regards to your car...

opt-out vs. opt-in

- current solution: block your aircraft!
 - <https://www.flightradar24.com/business/aircraft-unblocking>
- in fact an "opt-out" solution
- preferred: "opt-in" solution
 - due to the number of providers of such services

and it could be worse...



ADS-B Exchange

World's largest co-op of unfiltered flight data

+ a b l e a u

Excel + Table
Beautiful Partn

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How to feed

Forum

Global Radar View

Other Tracking Info

Data

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DANKE FÜR IHRE AUFMERKSAMKEIT!

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