



# LIZ Air traffic statistics

NOV 2018

DFS Situation and Information Centre

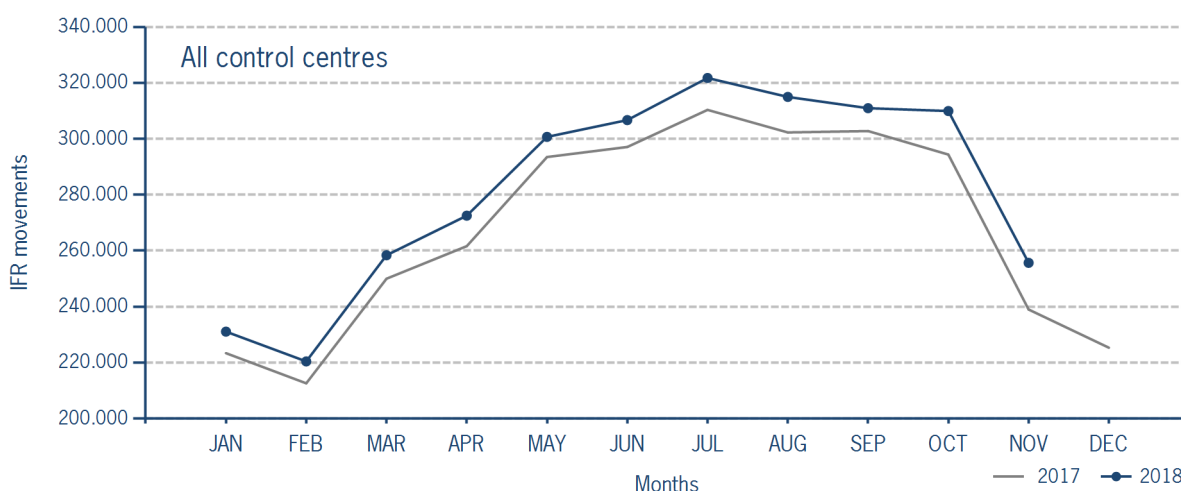
Version 05.12.2018

## IFR flights in the Federal Republic of Germany

IFR movements (entries, exits, overflights and domestics) in all control sectors with a German designator.

	NOV 2018	NOV 2017	Trend
Civil flights	252.069	235.638	7,0%
Military flights	3.583	3.332	7,5%
<b>Total</b>	<b>255.652</b>	<b>238.970</b>	<b>7,0%</b>

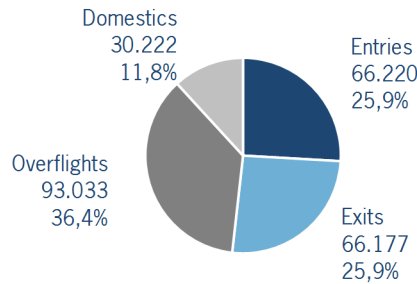
	JAN - NOV 2018	JAN - NOV 2017	Trend
Civil flights	3.062.942	2.945.785	4,0%
Military flights	40.026	41.024	-2,4%
<b>Total</b>	<b>3.102.968</b>	<b>2.986.809</b>	<b>3,9%</b>



Please note: This count covers the traffic in the area build by all control sectors with a German designator („ED“), regardless of the service provider, including civil and military traffic in sectors controlled by DFS and Maastricht UAC (Maastricht-Hannover sectors). The area counted is composed of modular control sectors designed for ATC purposes with partly cross border structures and is therefore not identical to the political border of the Federal Republic of Germany or the national Flight Information Region (FIR).

## IFR flights in the Federal Republic of Germany - percentage

IFR movements (entries, exits, overflights and domestics) in all control centres.

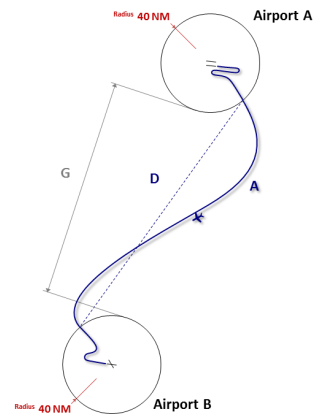


Please note: This count covers the traffic in the area build by all control sectors with a German designator („ED“), regardless of the service provider, including civil and military traffic in sectors controlled by DFS and Maastricht UAC (Maastricht-Hannover sectors). The area counted is composed of modular control sectors designed for ATC purposes with partly cross border structures and is therefore not identical to the political border of the Federal Republic of Germany or the national Flight Information Region (FIR).

## Flight efficiency in the Federal Republic of Germany

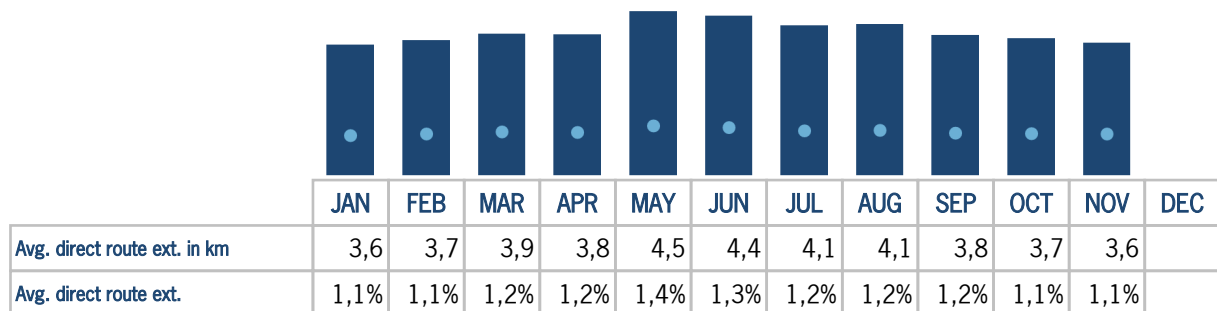
Direct route extension is defined as the difference between the length of the actual route (A) and the direct course (D) between the departure and arrival terminal areas (radius of 40 NM around the airport) or the national border where a flight enters or leaves German airspace. The direct route extension expressed as a percentage is defined as the ratio between the direct route extension and the direct course (D).

NOV 2018	
Evaluated traffic	228.044
Average actual route / flight	323,3 km
Average direct course / flight	319,7 km
Average direct route extension / flight	3,6 km
Average direct route extension / flight	1,1%



Additional information:

The evaluated traffic includes only civil flights. This value is different from the number of IFR flights in the Federal Republic of Germany because certain flights are not included in the statistics. For example, tracks which have an intercept point with the departure or the arrival terminal area (40 NM) outside of the DFS controlled airspace are not included.



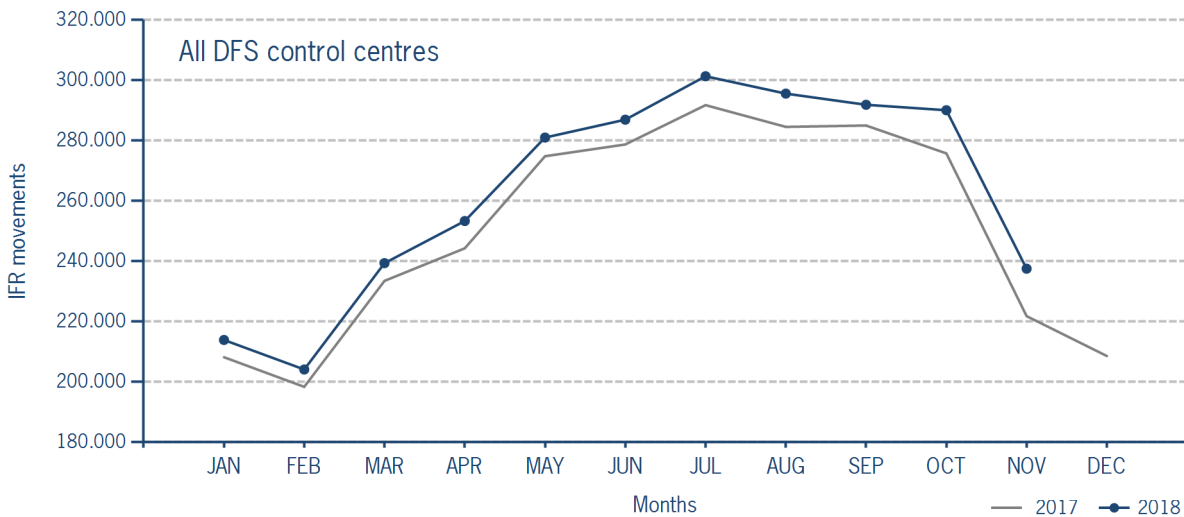
## IFR flights controlled by DFS

IFR movements (entries, exits, overflights and domestics) in control sectors controlled by DFS.

	NOV 2018	NOV 2017	Trend
<b>Civil flights</b>	234.018	218.528	7,1%
<b>Military flights</b>	3.554	3.318	7,1%
<b>Total</b>	237.572	221.846	7,1%

	JAN - NOV 2018	JAN - NOV 2017	Trend
<b>Civil flights</b>	2.855.607	2.756.254	3,6%
<b>Military flights</b>	39.923	40.945	-2,5%
<b>Total</b>	2.895.530	2.797.199	3,5%

Please note: This count covers the traffic in the area build by control sectors of DFS control centres, including civil and military traffic. Traffic in Maastricht UAC (Maastricht-Hannover sectors) is not counted.



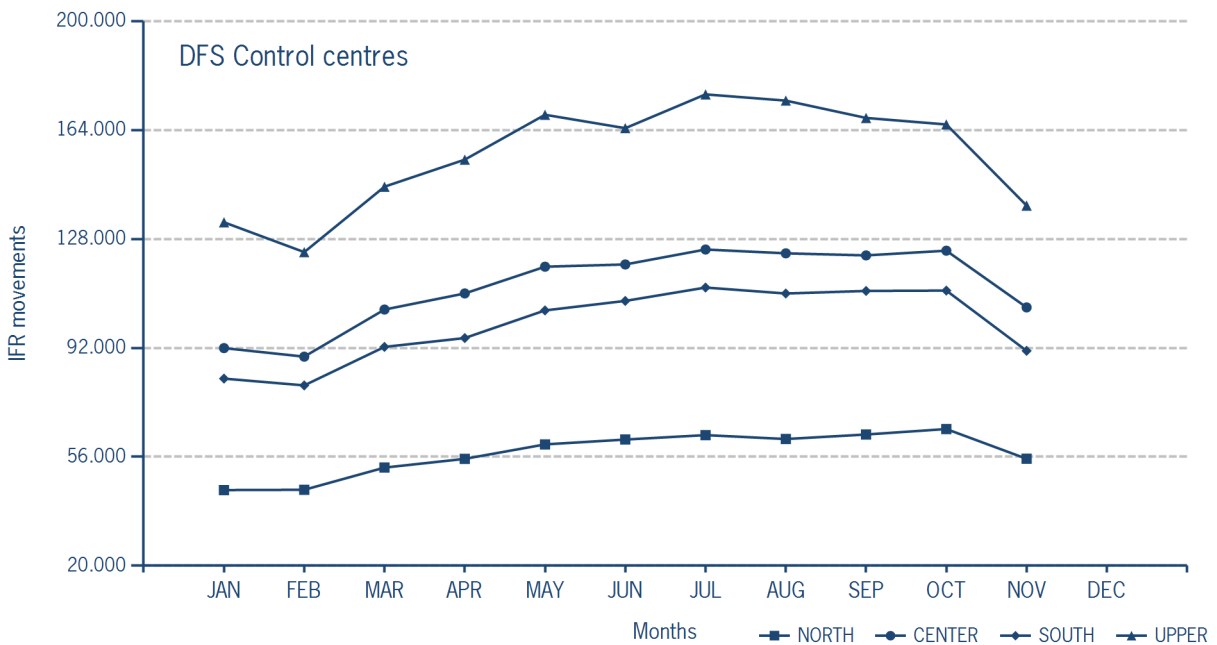
**IFR flights controlled by DFS - in detail**

IFR movements (entries, exits, overflights and domestics) controlled by DFS at the different control centres.

	NOV 2018	NOV 2017	Trend
NORTH	55.362	47.095	17,6%
CENTER	105.393	98.047	7,5%
SOUTH	91.036	84.909	7,2%
UPPER	139.042	134.460	3,4%

	JAN - NOV 2018	JAN - NOV 2017	Trend
NORTH	628.720	617.756	1,8%
CENTER	1.234.058	1.180.202	4,6%
SOUTH	1.095.744	1.041.290	5,2%
UPPER	1.712.852	1.714.348	-0,1%

Please note: The trend numbers compare counts of the airspaces in their current configuration to the count of the same airspace in 2017.



### IFR flights at international and regional German airports

IFR events (take-offs and landings) at the international DFS towers and the regional tower with control zone and barely any PPR in the Federal Republic of Germany.

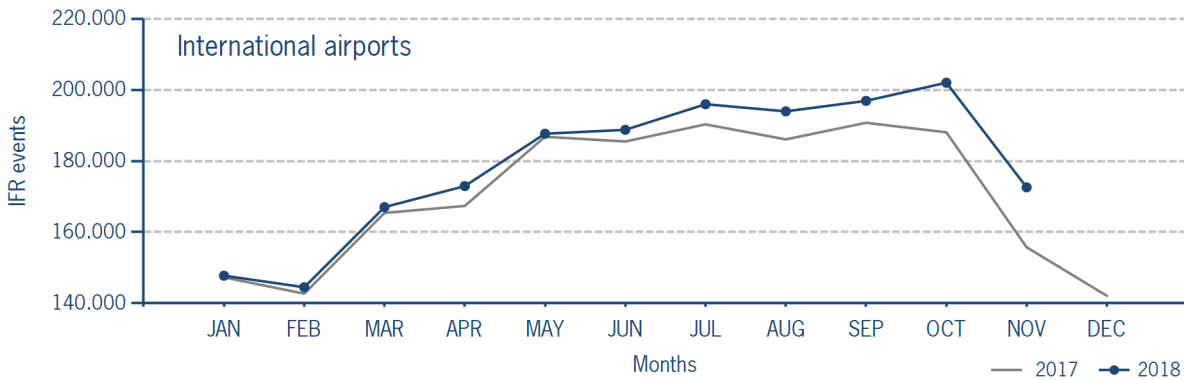
	NOV 2018	NOV 2017	Trend
<b>International Airports</b>	172.602	155.757	10,8%
<b>Regional Airports</b>	13.059	12.666	3,1%
<b>Total</b>	185.661	168.423	10,2%

	JAN - NOV 2018	JAN - NOV 2017	Trend
<b>International Airports</b>	1.970.191	1.906.049	3,4%
<b>Regional Airports</b>	156.867	150.879	4,0%
<b>Total</b>	2.127.058	2.056.928	3,4%

Please note: The airport Magdeburg-Cochstedt (EDBC) is currently closed.

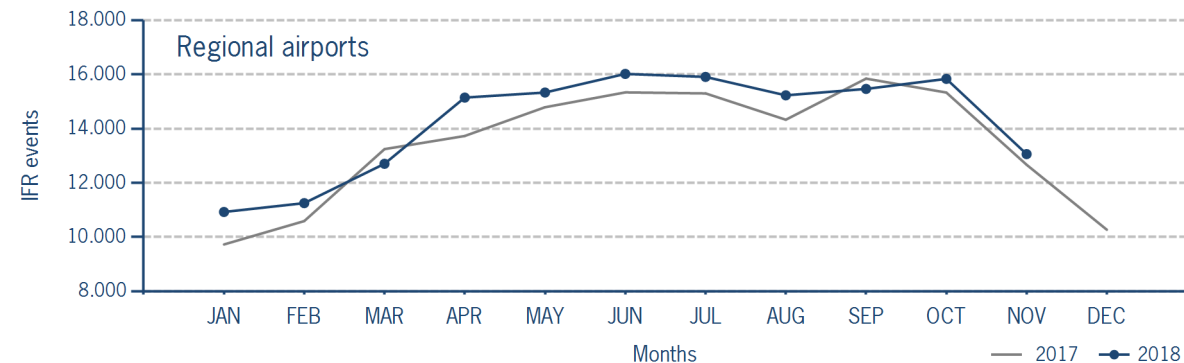
### IFR flights at international German airports

IFR events (take-offs and landings) at the international DFS towers in the Federal Republic of Germany.



### IFR flights at regional German airports

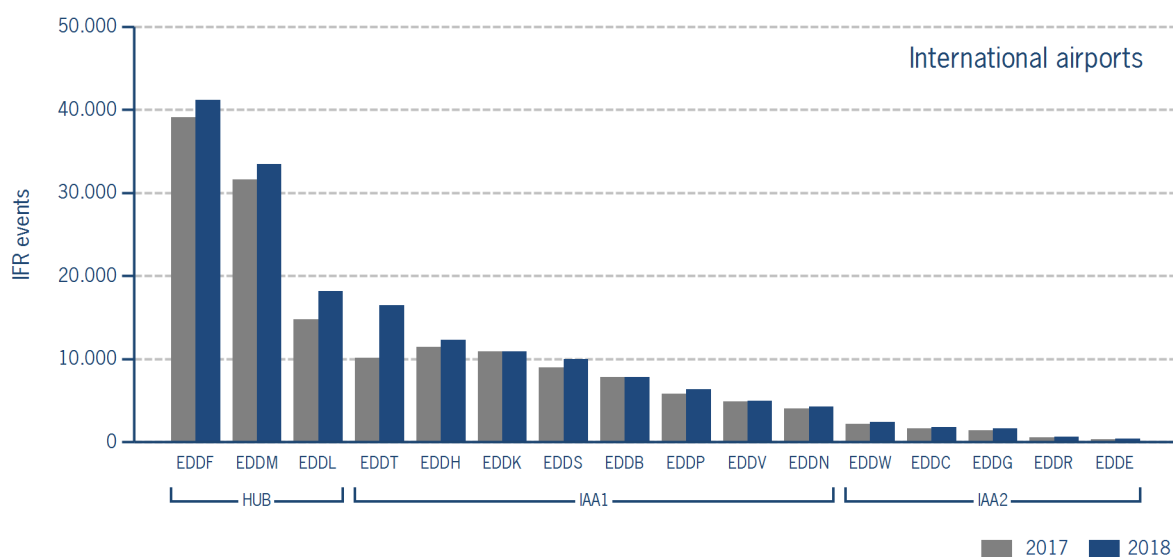
IFR events (take-offs and landings) at the different regional towers in the Federal Republic of Germany with control zone and barely any PPR.



**IFR flights at international German airports - in detail**

IFR events (take-offs and landings) at the different international DFS towers in the Federal Republic of Germany differentiated by Hub Gateways (HUB), International Access Airports 1 (IAA1) and International Access Airports 2 (IAA2).

		NOV 2018	Trend	JAN - NOV 2018	Trend
<b>HUB</b>					
EDDF	Frankfurt/Main	41.182	5,3%	473.519	7,6%
EDDL	Düsseldorf	18.151	22,8%	201.425	-3,0%
EDDM	München	33.426	5,7%	378.853	1,7%
<b>IAA1</b>					
EDDB	Berlin-Schönefeld	7.799	-0,6%	93.284	1,0%
EDDH	Hamburg	12.283	7,2%	137.523	-3,9%
EDDK	Köln/Bonn	10.896	-0,4%	132.649	2,4%
EDDN	Nürnberg	4.236	4,2%	50.472	1,9%
EDDP	Leipzig/Halle	6.329	9,0%	68.942	14,0%
EDDS	Stuttgart	10.011	11,4%	119.265	8,6%
EDDT	Berlin-Tegel	16.434	62,5%	170.909	4,6%
EDDV	Hannover	4.989	2,8%	61.597	5,6%
<b>IAA2</b>					
EDDC	Dresden	1.807	10,3%	20.667	3,5%
EDDE	Erfurt/Weimar	385	4,6%	5.180	0,0%
EDDG	Münster/Osnabrück	1.611	14,0%	18.154	5,8%
EDDR	Saarbrücken	652	19,9%	8.578	2,2%
EDDW	Bremen	2.411	8,6%	29.174	3,2%

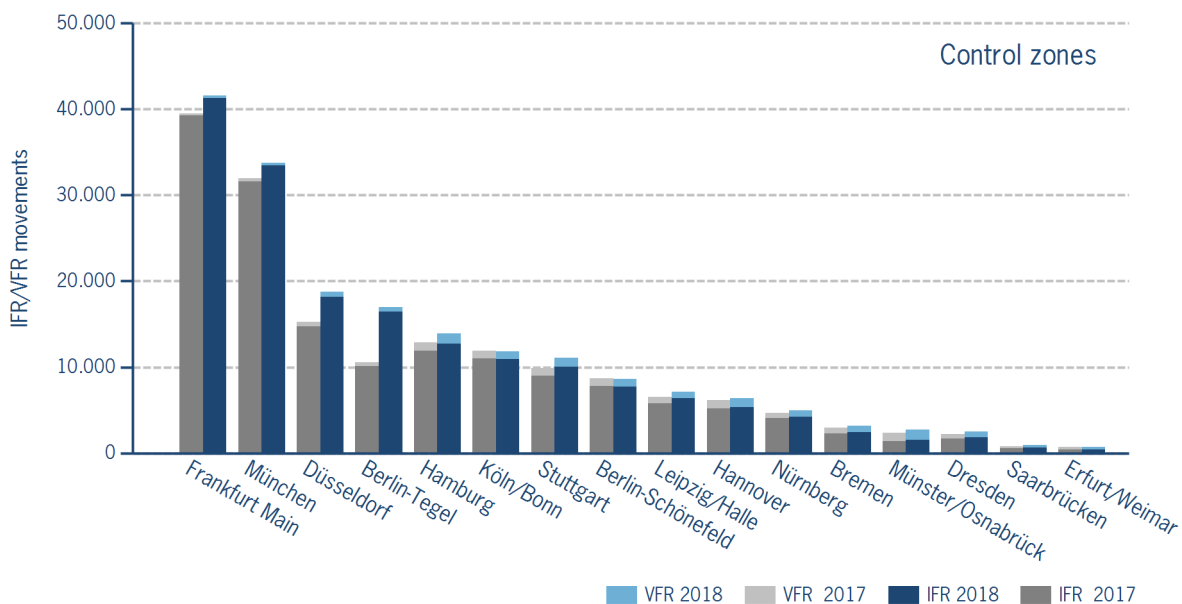


**IFR/VFR flights in control zones of DFS towers**

IFR/VFR movements (entries, exits, overflights and domestics) at the different control zones of international DFS towers.

	NOV 2018	Trend	JAN - NOV 2018	Trend
Berlin-Schönefeld	8.595	-0,9%	108.323	2,7%
Berlin-Tegel	16.968	60,3%	179.875	4,9%
Bremen	3.178	8,7%	42.297	3,8%
Dresden	2.504	13,6%	35.067	5,9%
Düsseldorf	18.753	22,8%	208.557	-2,9%
Erfurt/Weimar	726	-2,4%	12.056	-3,2%
Frankfurt Main	41.583	5,3%	478.464	7,5%
Hamburg	13.901	8,2%	165.335	-1,9%
Hannover	6.381	3,5%	82.910	8,0%
Köln/Bonn	11.856	-0,6%	148.201	1,8%
Leipzig/Halle	7.142	9,4%	82.383	11,5%
München	33.769	5,7%	384.400	1,8%
Münster/Osnabrück	2.710	16,9%	36.658	7,6%
Nürnberg	4.999	7,0%	64.287	3,2%
Saarbrücken	937	13,6%	13.896	-0,3%
Stuttgart	11.066	11,9%	135.809	7,4%

Additional information: Münster reported no glider movements for the current month, i.e. 2.434 glider movements for the cumulated year.



## IFR flights at regional German airports - in detail

IFR events (take-offs and landings) at the different regional towers in the Federal Republic of Germany with control zone and barely any PPR.

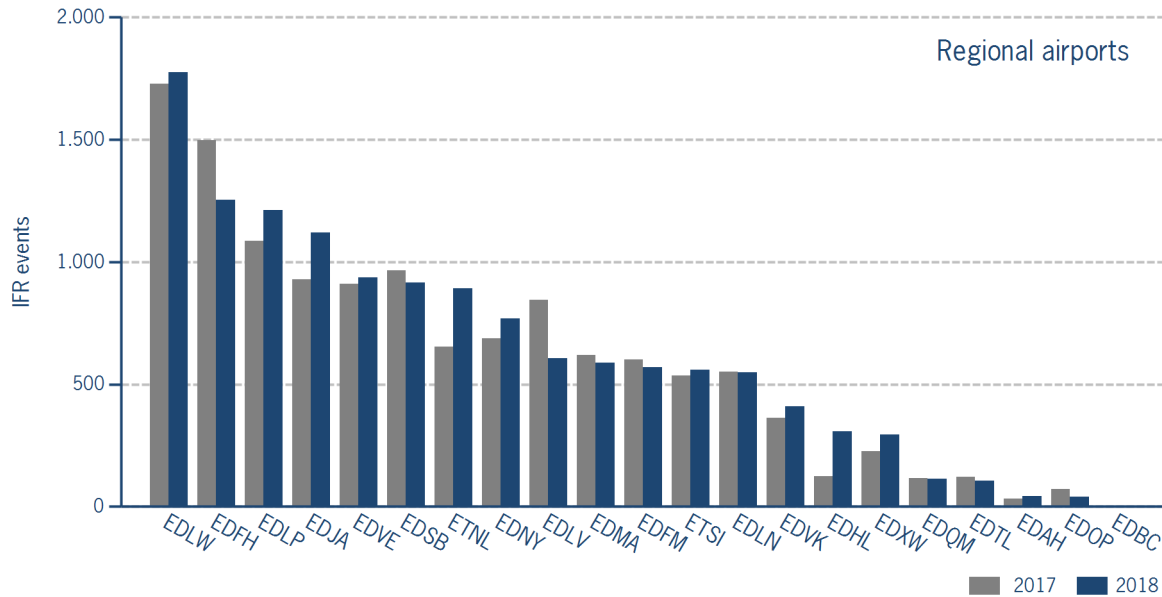
		NOV 2018	Trend	JAN - NOV 2018	Trend
EDAH	Heringsdorf	43	30,3%	833	0,7%
EDBC	Magdeburg/Cochstedt	0	-100,0%	1	-80,0%
EDFH	Frankfurt-Hahn	1.254	-16,2%	18.209	-5,3%
EDFM	Mannheim City	569	-5,3%	6.332	5,3%
EDHL	Lübeck-Blankensee	309	149,2%	2.606	43,3%
EDJA	Memmingen	1.119	20,5%	12.728	18,7%
EDLN	Mönchengladbach	548	-0,5%	6.166	10,0%
EDLP	Paderborn/Lippstadt	1.212	11,7%	13.255	9,3%
EDLV	Niederrhein	606	-28,3%	11.404	-7,6%
EDLW	Dortmund	1.776	2,8%	20.652	10,2%
EDMA	Augsburg	587	-5,2%	6.531	-2,1%
EDNY	Friedrichshafen	768	11,8%	9.624	3,0%
EDOP	Schwerin-Parchim	40	-45,2%	505	-51,1%
EDQM	Hof-Plauen	114	-2,6%	1.326	-6,1%
EDSB	Karlsruhe/Baden-Baden	915	-5,3%	11.643	-4,5%
EDTL	Lahr	106	-13,1%	1.357	-5,4%
EDVE	Braunschweig-Wolfsburg	937	3,0%	9.117	-0,2%
EDVK	Kassel-Calden	409	12,7%	4.409	8,0%
EDXW	Sylt	294	29,5%	5.792	6,4%
ETNL	Laage	893	36,5%	9.248	24,3%
ETSI	Ingolstadt/Manching	560	4,7%	5.129	-2,6%

\*The value is of limited conclusiveness (OLC).



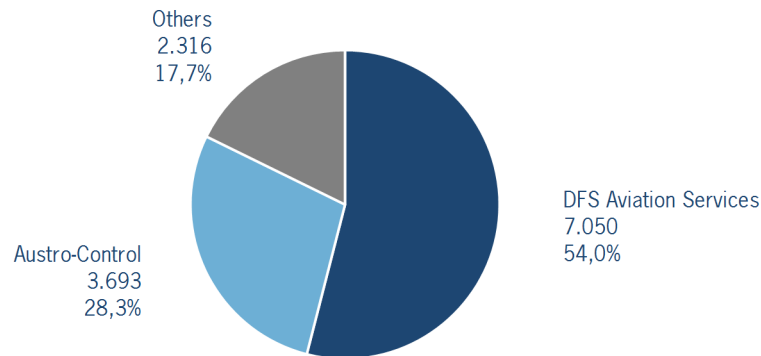
### IFR flights at regional German airports - in detail

IFR events (take-offs and landings) at the different regional towers in the Federal Republic of Germany with control zone and barely any PPR.



### IFR flights at regional German airports - air traffic service providers

Percentage of IFR events (take-offs and landings) at the regional towers in the Federal Republic of Germany differentiated between DFS Aviation Services, Austro Control and other providers.



- DFS Aviation Services:** Dortmund (EDLW), Friedrichshafen (EDNY), Karlsruhe/Baden-Baden (EDSB), Lahr (EDTL), Magdeburg/Cochstedt (EDBC), Memmingen (EDJA), Mönchengladbach (EDLN), Niederrhein (EDLV), Paderborn/Lippstadt (EDLP)
- Austro Control:** Augsburg (EDMA), Braunschweig-Wolfsburg (EDVE), Frankfurt-Hahn (EDFH), Heringsdorf (EDAH), Hof-Plauen (EDQM), Kassel-Calden (EDVK), Lübeck-Blankensee (EDHL), Schwerin-Parchim (EDOP)
- Others:** Ingolstadt/Manching (ETSI), Laage (ETNL), Mannheim City (EDFM), Sylt (EDXW)