William Blair

Q3 2023

Private and commercial aviation reach new steady state

In This Report

Delta's Reinvestment in Private Aviation Strong Demand in Fractional Aviation Activity Updates and Analyses

Aviation Services Industry Update



Aviation Services Observations and Key Trends

Commercial and Private Aviation Reach New Steady State, Fractional and Charter Balance Interest

Business jet activity year-to-date remains about 6% lower year-overyear. However, as growth trends tapered last summer, the activity deficit in recent months has trended in a more positive direction with September only down 5.1%, versus 9.5% in April. Compared to 2019, year-to-date activity is approximately 11.5% higher. The relative increase has been spread evenly throughout the year with 7 of 9 months showing more than a 10% growth in operations.¹

In addition, broader U.S. general aviation activity continues to trend positively, with recent monthly growth outperforming 2022 year-over-year by as much as 6.7% and cumulative year-to-date 2023 operations just surpassing the same period in 2022.¹

Delta Doubles Down on Wheels Up In late September, Wheels Up closed a previously announced \$500 million credit facility led by Delta Air Lines and a consortium of other investors. The investment provides Wheels Up with both an important source of capital as well as expert guidance from investors with deep experience in premium travel.

Delta was already a 20% stakeholder in Wheels Up. Its additional investment correlates with consumer trends seen across the aviation industry and may mark the start of broader airline investment in the jet charter market.

Increased demand for luxury and personalized experiences have driven higher consumption of first-class and business-class seats—Delta's sale of premium tickets through June 2023 has outpaced main cabin sales and is 38% higher than the same period in 2022.² Furthermore, the commercial travel resurgence has increased competition in the industry, prompting airlines to invest in differentiation.

Fractional Ownership Still Seeing Strong Demand

Compared to 2022, fractional operators saw a 5.2% increase in flights through year-to-date September. Through the past four years, fractional growth has outperformed that of managed, charter, and corporate aircraft.³

Fractional jet ownership enables the traveler to purchase a piece of equity in a specific aircraft, entitling them to a certain number of flight hours each year. While fractional ownership is often more expensive than on-demand charters or prepaid flight hours, wealthy travelers are enjoying the numerous benefits: aircraft consistency, higher availability, tax treatment, and flying with less advanced notice. Fractional operators, such as FlexJet and NetJets, have experienced such a great surge in demand that their fractional aircraft have already sold out for 2024.

Key Conference Highlights



Sustainability Goals Remain

• Business Aviation leaders, including Ed Bolen (NBAA president & CEO) and Curt Casagna (NATA president), unveiled a new advocacy campaign, "Climbing. Fast.", which emphasizes the important contribution from business aviation and affirms the entire sector's commitment to netzero emissions by 2050.

Competition for Pilots, Aviation Employees Remains High

- Flight delays and cancellations have plagued travelers throughout 2023 and are largely caused by a significant shortage of commercial pilots, mechanics, and air traffic controllers.
- According to JSfirm.com the number of companies advertising open positions is up 19.7%, with total jobs up 16.7% compared to 2022; some companies are offering signing bonuses of up to \$175,000 to attract pilot talent.⁴

- 1. FAA.
- 2. Delta Air Lines June 2023 Quarterly Report.
- 3. WingX Industry Analysis, October 2023.
- 4. JSfirm.com data, October 2023.



Top Ten Airports for Domestic Business Jet Operations

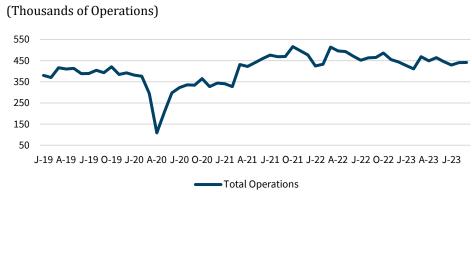
(Trailing Twelve Months September 2023 Business Jet Operations)

Air Traffic (RPMs) and Capacity (ASMs)

(Millions of Miles)



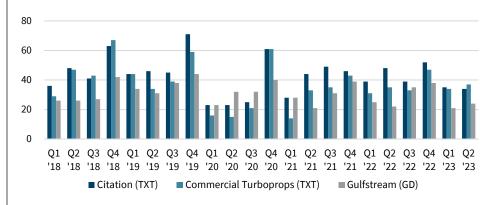
Business Jet Operations



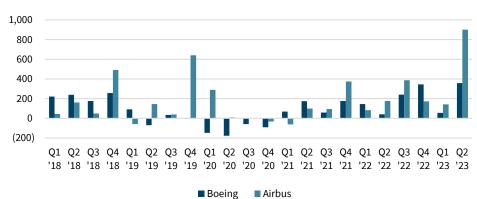
Operations and Commercial Flight Activity

Business Jet

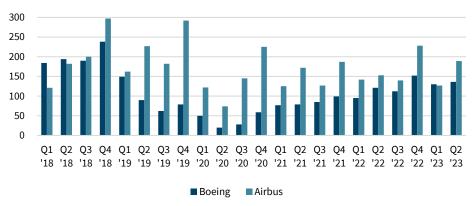
Private Aircraft Deliveries



Net Orders







Business Jet and Commercial Aircraft Orders and Deliveries

75% 50% 25% 0% (25%) Nov-22 Dec-22 Jan-23 Feb-23 Mar-23 Apr-23 May-23 Jul-23 Aug-23 Sep-23 Oct-23 — Aircraft OEMs — Commercial Airlines — Aerospace Supply Chain & Aftermarket

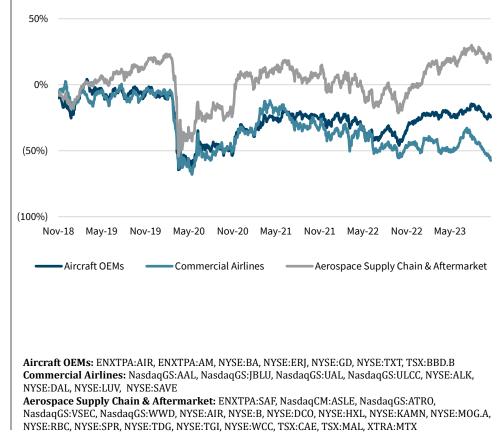
Public Company 1-Year Stock Performance

(Indexed Market Capitalization for the Period November 2022 – November 2023)

Public Company Performance

Public Company 5-Year Stock Performance

(Indexed Market Capitalization for the Period November 2018- November 2023)



Public Company Operating and Valuation Metrics

	Enterprise Value	Market Capitalization	% of 52 - Week High	Rev Growth			Enterpise Value /				
Company				'23P '24P		LTM EBITDA Margin	LTM Revenue	NTM Revenue	LTM EBITDA	NTM EBITDA	
Aircraft OEMs											
The Boeing Company	\$164,771	\$125,859	85.6%	21.6%	15.4%	3.8%	2.2x	1.9x	NMF	NMF	
Airbus SE	110,119	113,626	95.3%	12.8%	14.2%	11.0%	1.6x	1.4x	15.0x	10.4x	
General Dynamics Corporation	76,301	66,656	95.3%	7.8%	10.4%	11.6%	1.8x	1.7x	15.8x	12.5x	
Textron Inc.	17,403	15,171	95.1%	8.4%	9.7%	11.8%	1.3x	1.2x	11.0x	9.9x	
Bombardier Inc.	8,934	3,643	70.4%	25.5%	10.7%	10.7%	1.2x	1.1x	10.9x	6.7x	
Dassault Aviation société anonyme	7,939	16,136	97.7%	(17.4%)	(9.0%)	10.7%	1.2x	1.3x	10.8x	10.9x	
Embraer S.A.	4,625	2,982	94.5%	32.1%	6.6%	5.0%	0.9x	0.8x	17.1x	7.2x	
Mean	\$55,727	\$49,153	90.5%	13.0%	8.3%	9.2%	1.4x	1.3x	13.4x	9.6x	
Median	\$17,403	\$16,136	95.1%	12.8%	10.4%	10.7%	1.3x	1.3x	13.0x	10.2x	
Aerospace Supply Chain and After	market Supp	ort									
Safran SA	\$73,862	\$73,424	99.4%	38.9%	15.6%	18.6%	3.1x	2.6x	16.4x	13.4x	
TransDigm Group Incorporated	69,259	52,970	94.5%	34.8%	15.7%	48.8%	10.5x	9.1x	21.6x	17.5x	
WESCO International, Inc.	13,085	7,754	82.0%	23.3%	2.6%	7.5%	0.6x	0.6x	7.7x	7.2x	
MTU Aero Engines AG	11,708	10,885	75.9%	14.8%	38.7%	(4.4%)	2.1x	1.5x	NMF	8.7x	
CAE Inc.	9,062	6,683	85.1%	24.9%	4.0%	18.3%	2.8x	2.7x	15.2x	11.3x	
Woodward, Inc.	8,459	7,850	95.7%	29.5%	9.1%	14.6%	2.9x	2.7x	19.9x	15.1x	
RBC Bearings Incorporated	8,331	7,014	95.4%	104.0%	6.5%	29.6%	5.5x	5.2x	18.5x	17.0x	
Hexcel Corporation	6,210	5,553	83.5%	32.9%	12.0%	19.3%	3.5x	3.1x	18.3x	14.9x	
Spirit AeroSystems Holdings, Inc.	6,470	2,872	64.2%	40.5%	33.2%	(5.1%)	1.2x	0.9x	NMF	6.6x	
Moog Inc.	5,176	4,237	96.2%	14.8%	4.3%	12.1%	1.6x	1.5x	12.9x	11.3x	
Barnes Group Inc.	2,552	1,330	55.4%	7.1%	26.2%	19.8%	1.9x	1.5x	9.6x	7.9x	
Triumph Group, Inc.	2,317	828	80.8%	(8.9%)	9.0%	13.7%	1.7x	1.5x	12.0x	9.5x	
AAR Corp.	2,607	2,321	98.2%	13.5%	10.9%	7.9%	1.2x	1.1x	15.7x	12.0x	
Kaman Corporation	1,134	576	77.0%	8.6%	1.9%	16.9%	1.5x	1.4x	8.7x	9.8x	
VSE Corporation	1,442	979	98.8%	43.5%	(6.5%)	10.1%	1.3x	1.4x	13.3x	11.0x	
Ducommun Incorporated	997	720	84.6%	16.7%	5.6%	10.5%	1.3x	1.3x	12.6x	8.6x	
Astronics Corporation	722	527	69.3%	46.6%	14.1%	1.5%	1.1x	1.0x	NMF	8.8x	
AerSale Corporation	760	717	67.1%	(1.5%)	33.7%	3.1%	2.3x	1.7x	NMF	10.1x	
Magellan Aerospace Corporation	396	338	81.0%	15.4%	8.3%	6.0%	0.6x	0.6x	10.5x	5.8x	
Mean	\$11,818	\$9,873	83.4%	26.3%	12.9%	13.1%	2.5x	2.2x	14.2x	10.9x	
Median	\$5,176	\$2,872	83.5%	23.3%	9.1%	12.1%	1.7x	1.5x	13.3x	10.1x	
Commercial Airlines											
Delta Air Lines, Inc.	\$45,985	\$23,091	72.4%	91.5%	(0.6%)	13.0%	0.8x	0.8x	6.2x	5.0x	
American Airlines Group Inc.	38,655	8,032	64.4%	77.1%	3.0%	13.5%	0.7x	0.7x	5.4x	6.0x	
United Airlines Holdings, Inc.	32,662	13,042	68.3%	113.1%	6.1%	15.4%	0.6x	0.6x	4.0x	4.3x	
Southwest Airlines Co.	12,330	14,790	61.4%	61.1%	7.3%	6.1%	0.5x	0.5x	7.9x	6.1x	
Alaska Air Group, Inc.	6,383	4,707	64.3%	67.6%	2.0%	8.5%	0.6x	0.6x	7.2x	4.8x	
Spirit Airlines, Inc.	7,026	1,357	56.4%	68.1%	5.6%	0.9%	1.3x	1.2x	NMF	NMF	
JetBlue Airways Corporation	4,690	1,396	44.3%	60.8%	(1.5%)	6.9%	0.5x	0.5x	7.1x	6.1x	
Frontier Group Holdings, Inc.	3,635	937	30.1%	75.0%	6.9%	(1.8%)	1.0x	0.9x	NMF	7.6x	
Mean	\$18,921	\$8,419	57.7%	76.8%	3.6%	7.8%	0.8x	0.7x	6.3x	5.7x	
Median	\$9,678	\$6,370	62.9%	71.5%	4.3%	7.7%	0.7x	0.7x	6.6x	6.0x	

Deal Spotlight



Company Overview

Fontainebleau Aviation is a premier provider of fixed base operator (FBO) services. Primarily located at Opa-Locka Executive Airport (KOPF), the company was established more than 30 years ago as a corporate flight division before expanding into a full-service FBO in 2011. Fontainebleau is also developing a new FBO at Fort Lauderdale Hollywood International Airport (KFLL).

Transaction Outcome

William Blair acted as the exclusive financial advisor to Fontainebleau Aviation in connection with its contemplated partnership with Skyservice Business Aviation, a portfolio company of Instar Asset Management. Skyservice is a Canada-based network of FBOs that provide a full spectrum of general aviation services. The partnership will expand Skyservice's operations in South Florida and elevate both brands to a wider audience.

Recent M&A Transactions

Date	Target	Acquirer	Sub-Sector	William Blair Transaction	
Pending	Fontainebleau Aviation	Skyservice (Instar)	FBO	•	
Pending	Modern Aviation (16 locations)	Apollo (Majority) and Tiger Infrastructure Partners	FBO		
Pending	FlyExclusive	EG Acquisition	Charter		
Aug-23	Flying Colours	FlexJet (Eldridge and Directional Aviation)	MRO		
Jun-23	Yingling Aviation	AE Industrial Partners	FBO / MRO		
May-23	Star Handling	Skytanking (Primeflight)	Ground Handling		
Apr-23	Epps Aviation (Atlanta, GA)	Aero Centers (SAR-Trilogy and Redbird Capital)	FBO / Charter / MRO		
Mar-23	Midwest Corporate Aviation	Clemens Aviation	FBO / Charter / MRO		
Mar-23	Atlas Air	Apollo Global, JF Lehman, and Hill City Capital	Air Cargo		
Mar-23	Golden Isles Aviation (St. Simons, GA)	Odyssey Aviation	FBO		
Mar-23	Dolphin Aviation (Sarasota, FL)	Hawthorne Global Aviation Services	FBO		
Feb-23	Western Jet Aviation	StandardAero	MRO		
Feb-23	Constant Aviation (Cleveland, OH)	Directional Aviation (AKA FlexJet)	MRO		
Jan-23	Dumont (Charter Division)	Rennia Aviation	Charter		
Nov-22	Northeast Aero Compressor (Bohemia, NY)	Jet Parts Engineering	MRO		
Nov-22	Associated Aircaft Manufacturing & Sales, Inc	First Aviation Services	MRO		
Oct-22	UltraAir (Omaha, NE)	Four Corners Aviation	Charter		
Oct-22	TCR International	3i Infrastructure	Ground Handling		
Oct-22	Mystic Jet Center (3 locations)	Modern Aviation	FBO		
Sep-22	Skytech (2 locations)	Pilatus	Charter / MRO		
Sep-22	Mayo Aviation (Centennial, CO)	Priester Aviation	Charter		
Sep-22	Textar Aviation (Dallas, TX)	Atlantic Aviation	FBO		
Sep-22	Elliot Aviation (Des Moines, IA)	Modern Aviation	FBO		
Sep-22	Odyssey Aviation (2 locations)	Granite Creek Capital Partners	FBO		
Aug-22	Menzies	Agility	Ground Handling		
Aug-22	Four Points Aero Services (Dallas, TX)	Elliot Aviation	MRO		
Aug-22	Blue Heron Aviation (Turks & Caicos)	Atlantic Aviation	FBO		
Jul-22	Skycharter (Halifax, Nova Scotia)	IMP Group	Charter		
Jul-22	Signature Flight Support (3 locations)	Atlantic Aviation	FBO		
Jul-22	TAC Air (17 locations)	Signature Aviation	FBO	•	
May-22	Central Flying Service	Tricoastal Ventures	MRO		
May-22	EB Airfoils (Palm City, FL)	StandardAero	MRO		
May-22	Ross Aviation (16 locations)	Atlantic Aviation	FBO		
May-22	Atlantic Aviation (Stuart, FL)	APP Jet Center	FBO	•	
May-22	Air Service Hawaii (6 locations)	Ross Aviation	FBO		
Apr-22	Heliblade (Anderson, CA)	First Aviation Services	MRO		
Apr-22	Air Partner (United Kingdom)	Wheels Up	Charter		
Mar-22	Gulf Coast Aviation (Houston, TX)	Volato	Charter		
Mar-22	West Star Aviation (8 locations)	The Sterling Group	MRO		
Mar-22	Jet Edge International	VistaJet (Rhone Group)	Charter		
Mar-22	Hawthorne Global Aviation Services (6 locations)	Nova Infrastructure and Wafra	FBO / Charter / MRO		

Source: PitchBook Data, Inc.; *Data has not been reviewed by PitchBook analysts.

MARKET UPDATE AND ANALYSIS

Debt Capital Markets Transactions

			Amount (\$ millions)				Term Loan B		2nd Lien
Launch Date	Company	Corporate Rating	Total	TLB	RC	2nd Lien	Spread (bps)	Floor (bps)	Spread (bps)
Jul-23	Ontic	B2/B	\$957	\$957			400		
May-23	Atlantic Aviation	B/B2	\$750	\$750			400	50	
Apr-23	Signature Aviation	B+/B2	\$400	\$400			375	50	
Feb-23	American Airlines	B-/B2	\$1,000	\$1,000			275		
Feb-23	Castlelake Aviation	BB-/Ba3	\$635	\$635			275	50	
Sep-22	Ontic	B/B2	\$85	\$85			450		
Jul-22	Atlantic Aviation	B/B2	\$425	\$325	\$100		400	50	
Jun-22	Signature Aviation	B+/B1	\$1,100	\$1,100			375	50	
Feb-22	Ontic	B/B2	\$80	\$80			400		
Oct-21	Signature Aviation	B+/B1	\$330 \$330	\$330			275	50	
Oct-21	Atlantic Aviation Castlelake Aviation	B/B2 BB-/Ba3	\$330	\$330 \$980	\$750		300 275	50 50	
Sep-21 Jul-21	Avolon	BBB-/Baa3	\$672	\$980	\$750		275	50	
Jul-21	Ontic	B/B2	\$140	\$140			400		
Jul-21	Air Canada	B/B2 B+/Ba3	\$2,900	\$2,300	\$600		350	75	
Jul-21	Atlantic Aviation	B/B2	\$1,925	\$1,350	\$225	\$350	300	50	575
Apr-21	Gogo	B-/B3	\$825	\$725	\$100		375	75	
Apr-21	Signature Aviation	B+/B1	\$2,035	\$1,685	\$350		275	50	
Apr-21 Apr-21	United Airlines	B+/B1 B+/Ba2	\$6,750	\$5,000	\$1,750		375	75	
Mar-21	American Airlines	B-/B2	\$3,500	\$3,500			475	75	
Feb-21	Ontic	B-/B3	\$551	\$551			400		
Nov-20	Avolon Aerospace	BBB-/Baa3	\$675	\$675			250	75	
Sep-20	Fly Leasing	BB/B1	\$180	\$180			600	100	
Sep-20	Delta SkyMiles		\$3,000	\$3,000			375	100	
Jun-20	JetBlue	B+/Ba2	\$750	\$750			525	100	
Apr-20	Delta Air Lines	BB/Baa3	\$1,500	\$1,500			475	100	
Feb-20	Avolon Aerospace	BBB-/Baa3	\$850	\$850			150	75	
Jan-20	American Airlines	BB-/Ba3	\$1,220	\$1,220			175		
Nov-19	Fly Leasing	BB/Ba3	\$391	\$391			175		
Oct-19	Air Canada	BB+/Ba1	\$592	\$592			175		
Oct-19	Ontic	B-/B3	\$740	\$480	\$85	\$175	475		850
Jul-19	WestJet Airlines	B+/Ba3	\$2,305	\$1,955	\$350		300	100	
Jul-19	Kaman Distribution	B/B3	\$510	\$320	\$75	\$115	500		900
Nov-18	Atlantic Aviation	BB-/Ba3	\$1,325	\$1,025	\$300		375		
Oct-18	XOJET	B/B2	\$210	\$210			575		
Sep-18	Air Transport		\$1,220	\$675	\$545		NA		
Sep-18	American Airlines	BB-/Ba3	\$500	\$500			200		
May-18	American Airlines	BB-/Ba3	\$1,825	\$1,825			175		
Apr-18	Avolon	BB+/Ba2	\$4,750	\$4,750			200	75	
Apr-18	United Airlines	BB/Ba2	\$1,485	\$1,485			175		
Feb-18	Air Canada	BB-/Ba3	\$798	\$798			200	75	
Feb-18	AerCap	BBB-/Baa3	\$750	\$750			175		
Dec-17	MB Aerospace	B/B2	\$305	\$255	\$50		350	100	
Nov-17	Avolon	BB+/Ba2	\$369	\$369			175		
Nov-17	American Airlines	BB-/Ba3	\$1,250	\$1,250			200		
Nov-17	United Airlines	BB-/Ba2	\$1,493	\$1,493			200		
Oct-17	Fly Leasing	BB-/Ba3	\$437	\$437			200		
Oct-17	American Airlines	BB-/Ba3	\$990	\$990			200		
Sep-17	Avolon	BB+/Ba2	\$5,000	\$5,000			225	75	
Jul-17	AerCap	BBB-/Baa3	\$750	\$750			200		
May-17	American Airlines	BB-/Ba3	\$735	\$735			200		
May-17	Air Canada	BB-/Ba3	\$800	\$800			225	75	
Apr-17	FLY Leasing	BB-/B1	\$448	\$448			225		
Mar-17	United Airlines	BB-/Ba2	\$3,500	\$1,500	\$2,000		225		
Mar-17	American Airlines	BB-/Ba3	\$1,843	\$1,843			NA		
Jan-17	Avolon	BB+/Ba3	\$5,000	\$5,000			275	75	

Premier, Global Boutique

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Firm Snapshot

24 *offices worldwide*

~2,000

\$815B+

M&A and financing

activity since 2018

total employees

160+ M&A advisory transactions in 2022

Global Footprint

~725 investment banking

employees

100% owned by active

partners

M&A Expertise Since 2018





Trusted Advisor Since 2018



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Selected Aviation Services Transaction Experience



Note: Data is as of October 20, 2023. Map includes strategic partnerships with Allier Capital, BDA Partners, and Poalim Capital Partners. Represents transactions closed by William Blair employees while at other firms.

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