

Airline Route Optimizer Report

Auto-generated using scripts/report.py.

Airlines showcased: Delta Air Lines, American Airlines

Network Snapshots

Delta Air Lines

- Routes analyzed: 1981
- Airports served: 354
- Total routes: 1981
- Top hubs: [(‘ATL’, 419), (‘DTW’, 263), (‘MSP’, 254), (‘SLC’, 176), (‘JFK’, 172)]

American Airlines

- Routes analyzed: 2354
- Airports served: 434
- Total routes: 2354
- Top hubs: [(‘DFW’, 364), (‘CLT’, 267), (‘ORD’, 248), (‘MIA’, 240), (‘PHL’, 235)]

Competing Route Overlap

Source	Dest	deltalines	american
ATL	CLT	0.0	0.0
ATL	DFW	0.0	0.0
ATL	LHR	0.0	0.0
ATL	MIA	0.0	0.0
ATL	ORD	0.0	0.0

CBSA Opportunity Highlights

Delta Air Lines

Top CBSA corridors

Route	Source CBSA Name	Destination CBSA Name	ASM	Total Seats	Performance Score
ATL-FCO	Atlanta- Sandy Springs- Roswell, GA	non-US	1414966.49584	281206	0.7195949521108074
FCO-ATL	non-US	Atlanta- Sandy Springs- Roswell, GA	1414966.49584	281206	0.7195949521108074
AMS-PDX	non-US	Portland- Vancouver- Hillsboro, OR-WA	1406000.97827	281781	0.7152845580543193
PDX-AMS	Portland- Vancouver- Hillsboro, OR-WA	non-US	1406000.97827	281781	0.7152845580543193
AMS-SEA	non-US	Seattle- Tacoma- Bellevue, WA	1373035.25753	281902	0.6994495040415195

Suggested CBSA opportunities

Proposed Source	Proposed Destina- tion	Source CBSA	Destination CBSA	Reference Route	Opportunity Score
YEG	PWM	non-US	Portland- Vancouver- Hillsboro, OR-WA	AMS-PDX	0.429
ATL	YEG	Atlanta- Sandy Springs- Roswell, GA	non-US	ATL-FCO	0.426

Proposed Source	Proposed Destination	Source CBSA	Destination CBSA	Reference Route	Opportunity Score
YEG	ATL	non-US	Atlanta-Sandy Springs-Roswell, GA	FCO-ATL	0.426
\N	YHZ	Portland-Vancouver-Hillsboro, OR-WA	non-US	PDX-AMS	0.426
YEG	FTY	non-US	Atlanta-Sandy Springs-Roswell, GA	FCO-ATL	0.425

American Airlines

Top CBSA corridors

Route	Source CBSA Name	Destination CBSA Name	ASM	Total Seats	Performance Score
ABE-CLT	Allentown-Bethlehem-Easton, PA-NJ	Charlotte-Concord-Gastonia, NC-SC	0.0	0.0	0.0
ORD-BNA	Chicago-Naperville-Elgin, IL-IN	Nashville-Davidson-Murfreesboro-Franklin, TN	0.0	0.0	0.0
OMA-ORD	Omaha, NE-IA	Chicago-Naperville-Elgin, IL-IN	0.0	0.0	0.0
OMA-PHX	Omaha, NE-IA	Phoenix-Mesa-Chandler, AZ	0.0	0.0	0.0

Route	Source CBSA Name	Destination CBSA Name	ASM	Total Seats	Performance Score
ONT- DFW	Riverside- San Bernardino- Ontario, CA	Dallas- Fort Worth- Arlington, TX	0.0	0.0	0.0

Suggested CBSA opportunities

Proposed Source	Proposed Destina- tion	Source CBSA	Destination CBSA	Reference Route	Opportunity Score
ABE	USA	Allentown- Bethlehem- Easton, PA-NJ	Charlotte- Concord- Gastonia, NC-SC	ABE-CLT	0.0
ABE	CCR	Allentown- Bethlehem- Easton, PA-NJ	Charlotte- Concord- Gastonia, NC-SC	ABE-CLT	0.0
ESN	CLT	Allentown- Bethlehem- Easton, PA-NJ	Charlotte- Concord- Gastonia, NC-SC	ABE-CLT	0.0
MDW	BNA	Chicago- Naperville- Elgin, IL-IN	Nashville- Davidson-Murfreesboro- Franklin, TN	ORD- BNA	0.0
MDW	FKL	Chicago- Naperville- Elgin, IL-IN	Nashville- Davidson-Murfreesboro- Franklin, TN	ORD- BNA	0.0

Next Steps

- Run `python3 main.py --airline AIRLINE1 --airline AIRLINE2` for interactive comparisons.
- Seed CBSA data via `python3 main.py --build-cbsa-cache`.
- Use `scripts/showcase.py` for a quick CLI preview.