

Case Study # 1

Baltimore/Washington International Airport



Background

Baltimore/Washington International Airport (BWI) has enjoyed continued high growth for several years, and in 2000 the annual passenger load exceeded 19 million passengers. Of these, approximately three-quarters used BWI as their origin and/or destination point.

The airport is owned by the State of Maryland and managed by the Maryland Aviation Administration, a modal administration of the Maryland Department of Transportation. The facility is located approximately 9 miles from Baltimore and 32 miles from Washington, D.C., and is served by major highways, intercity rail and regional light rail. It is a major center of activity for Southwest Airlines and an origin and destination airport for many national carriers.

BWI will expand both its terminal and parking facilities in the near future and is considering significant expansion of its shuttle fleet. BWI has a large on-site CNG refueling facility and recently had 18 contractor owned and operated CNG powered buses circulating between public and employee parking lots and the terminal. The local utility is Baltimore Gas and Electric (BGE), which has actively supported the expansion of AFVs. The airport does not have refueling facilities for any other alternative fuel.

There are 22 hotels within the immediate vicinity of BWI. Seven major rental car companies serve the airport with facilities next to the terminal. One smaller national company operates off-site. A consolidated off airport remote facility for all rental cars is being planned.

Airport Shuttles at BWI

Over 80 different shuttle companies were observed arriving at BWI during a one-day survey (excluding taxicabs and limousines). The table shows the relevant characteristics of the top shuttle operators at BWI. Only six percent of the shuttle companies exceeded 100 trips to the terminal. Several others, especially hotel shuttles, made just over 20 trips.



Top Airport Shuttles at BWI Airport

<i>Company</i>	<i>Number of Trips to Terminal during survey day</i>	<i>Number of Vehicles in Operation</i>	<i>Telephone Number</i>
Airport Fast Park	354	10 cutaways	410-691-3333
Airport Shuttle/Montgomery Shuttle	234	108 vans in region, 36 based @ BWI	1-301-590-0000
BWI CNG Bus Fleet	617	18 full sized buses	Operated by Airport Contractor
ESP Parking	258	11 large cutaways	Operated by Airport Contractor
Park & Go	348	12 cutaways	410-850-5300
SuperShuttle	165	120 vans in region	410-761-1689 1-703-416-7873

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Survey conducted September 22, 1999

Company	Count	Vehicle Type	Telephone
AATRANSPORTATION	1	Van	410-789-0350
AFFORDABLE AIRPORT SHUTTLE	5	Van	301-670-0440
AIRPORT COACH	1	Van	
AIRPORT EXPRESS SHUTTLE	2	Van	703-241-9747
AIRPORT FAST PARK	354	Cutaway	410-691-3333
AIRPORT SEDAN	4	Sedan	410-760-8884
AIRPORT SHUTTLE/MONTGOMERY SHUTTLE	234	Van	301-590-0000
AIRPORT SHUTTLE SERVICE	3	Van	800-776-0323/410-381-2772/301-490-2625
AIRPORT TRANSFERS	1	Van	
AIRPORT TRANSPORTATION	1	Limo	410-285-3131
ALL AMERICAN TRANSPORT	1	Van	
AMERISUITES	3	Van	410-859-3360
AMTRACK	13	Bus	410-672-6167
ARDWORK AIRPORT SHUTTLE	12	Van	301-346-7081
B & B AIRPORT SHUTTLE	1	Sedan	410-342-6815
BALTIMORE AIRPORT SHUTTLE	6	Van	410-821-5387
BBC EXPRESS	1	Van	703-834-1555
BEST WESTERN	2	Van	410-796-3300
BWI CNG BUS FLEET - all uses	617	Bus	410-684-3346
C&D TRANSPORTATION	1	Van	410-789-8496
CI	3	Van	410-789-9100
COMFORT SUITES	21	Cutaway	410-691-1000
CROFTON COACH & CARRIER	5	Van	410-451-3030
DCE	1	Cutaway	703-913-5652
DELAWARE EXPRESS VAN & SHUTTLE	3	Van	800-648-5466
DGS	8	Cutaway	
DIPLOMAT LIMOUSINE SERVICE	6	Sedan	301-497-1111
DOUBLE TREE	8	Cutaway	410-850-0747
DOVER LIMO	1	Van	302-678-8090

**Alternative Fuel Vehicles in the Airport Shuttle
Industry: Characterization of a Niche Market**

DULLES	1	Van	703-481-8181
ENTERPRISE - CAR RENTAL (Concorde)	55	Cutaway	301-212-8246
ESP BWI EXPRESS PARKING	258	Cutaway	800-608-6294
ETC TRANSPORTATION	1	Sedan	410-519-7997
GALAXY EXPRESS SHUTTLE	1	Van	888-820-1200
GMS SHUTTLE	1	Van	
GP	2	Cutaway	
GUNTHER	1	Bus	
HAMPTON INN	11	Van	410-850-0600
HILTON	5	Van	410-653-1100/410-997-1060
HMI	1	Van	
HNBG	1	Cutaway	
HOLIDAY INN	36	Cutaway	410-859-8400
HOMEWOOD SUITES	8	Cutaway	410-684-6100
HUDSON GENERAL	40	Cutaway	operates BWI buses
JO-EE TRANSPORTATION	5	Van	301-444-0888
KEN-DAN TRANSPORTATION INC.	1	Van	
KING AIRPORT VANS	2	Van	
MAP	1	Van	
MARRIOTT	23	Cutaway	410-859-8300
MARRIOTT COURTYARD	2	Van	410-859-8855
MARRIOTT RESIDENCE INN	6	Cutaway	410-691-0255
MARTIN AIRPORT SHUTTLE SERVICE	2	Van	410-373-4407
MCTS	1	Van	
MDNA	3	Van	
MFDC	10	Cutaway	
MIROTEL INN	8	Van	410-865-7500
MPS	3	Van	
MTA – MASS TRANSIT BUS	17	Bus	
ORBITAL SHUTTLE	7	Van	301-253-5033
PARK & GO SHUTTLE	348	Cutaway	410-850-5300
PF	7	Cutaway	
PRINCE WILLIAM AIRPORT	1	Van	
PRIVATE CAR - BWI Limousine Service	44	Limo	410-519-0000
RAMADA INN	4	Van	410-712-4300
RED ROOF INN	9	Van	410-850-7600/712-4070
RELAX AND	2	Van	

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RIDE			
ROYAL AIRPORT SHUTTLE	5	Van	301-657-0888
RPS	2	Van	
SHERATON	29	Cutaway	410-859-3300
SIGNATURE FLIGHT SUPPORT	4	Van	410-859-4000
SIH	8	Cutaway	
SMART RIDE Inc.	1	Van	410-535-6932
SUISSE CHALET	6	Van	410-859-2333
SUPER SHUTTLE	165	Van	410-761-1689
TOWSON SEDAN SERVICE	1	Sedan	410-321-4567
VARIOUS UNNAMED LIMOS	17	Limo/Sedan	
SUM	2485		

Additional BWI Shuttle Information from other sources

Airport Vans Inc.	410-760-9988
Airport Limo	410-859-7545
Airport Limousine Service	410-730-0414
Dillon	410-647-2321
V&D Sedan	410-752-7985
Wyndom	410-841-6385
Yellow AP Van South	410-208-6900