

Memorandum



Date: November 3, 2009

To: Honorable Chairman Dennis C. Moss
and Members, Board of County Commissioners

Agenda Item No:
12(B)2

From: George M. Burgess
County Manager

A handwritten signature in black ink, appearing to read "G. Burgess", written over the printed name of the County Manager.

Subject: Report: Feasibility and Cost of Providing Real-time Global Positioning System on Miami-Dade Transit (MDT) Bus Fleet

This report responds to Resolution No. R-965-09 sponsored by Commissioner Joe A. Martinez, requesting a study of the feasibility and cost of providing real-time Global Positioning System (GPS) of Miami-Dade Transit (MDT) buses to the public. This resolution was passed at the July 21, 2009 Board of County Commission meeting.

MDT's Computer Aided Dispatch/Automatic Vehicle Locator (CAD/AVL) system was installed in the early 1990's. At that time, real-time functions and features were not available. The current CAD/AVL system has been in production for 13 years and has reached its end-of-life cycle. At present, the entire MDT fleet of 863 buses is equipped with this system and provides location information every two minutes.

Recognizing that an upgrade of the system would be needed, MDT evaluated and studied the alternatives to integrate the current system structure with newer technology, such as real-time GPS. Similar to the Train Tracker system on the Metrorail, the GPS will provide customers with real-time location on their Personal Digital Assistants (PDA). MDT is in the preliminary stages of pursuing a Request For Proposal (RFP) for the replacement of the current (CAD/AVL) system which will allow for real-time for GPS. The system has been planned and would be funded through MDT's Infrastructure Renewal Program (IRP) starting in Fiscal Year 2009/10. The RFP solicits a real-time system accessible via the Internet, cellphones, and PDAs, Electronic Signage at major stations, as well as replacement and integration of the current infrastructure system with new technology. The entire upgrade would cost approximately \$14.4 million dollars.

MDT anticipates advertising the RFP in early 2010.

A handwritten signature in black ink, written in a cursive style, positioned above a horizontal line.

Assistant County Manager

**OFFICIAL FILE COPY
CLERK OF THE BOARD
OF COUNTY COMMISSIONERS
MIAMI-DADE COUNTY, FLORIDA**

MEMORANDUM

Agenda Item No. 11(A)(6)

TO: Honorable Chairman Dennis C. Moss
and Members, Board of County Commissioners

DATE: July 21, 2009

FROM: R. A. Cuevas, Jr.
County Attorney

SUBJECT: Resolution directing the
Mayor to provide a report on
the feasibility and cost of
providing online real-time GPS
positioning of Miami-Dade
Transit buses to the public

Resolution No. R-965-09

The accompanying resolution was prepared and placed on the agenda at the request of
Prime Sponsor Commissioner Joe A. Martinez.



R. A. Cuevas, Jr.
County Attorney

RAC/jls



MEMORANDUM

(Revised)

TO: Honorable Chairman Dennis C. Moss
and Members, Board of County Commissioners

DATE: July 21, 2009

FROM: 
R. A. Cuevas, Jr.
County Attorney

SUBJECT: Agenda Item No. 11(A)(6)

Please note any items checked.

- "4-Day Rule" ("3-Day Rule" for committees) applicable if raised
- 6 weeks required between first reading and public hearing
- 4 weeks notification to municipal officials required prior to public hearing
- Decreases revenues or increases expenditures without balancing budget
- Budget required
- Statement of fiscal impact required
- Bid waiver requiring County Mayor's written recommendation
- Ordinance creating a new board requires detailed County Manager's report for public hearing
- Housekeeping item (no policy decision required)
- No committee review

Approved _____ Mayor
Veto _____
Override _____

Agenda Item No. 11(A)(6)
7-21-09

RESOLUTION NO. R-965-09

RESOLUTION DIRECTING THE COUNTY MAYOR OR MAYOR'S DESIGNEE TO PROVIDE A REPORT ON THE FEASIBILITY AND COST OF PROVIDING ONLINE REAL-TIME GPS POSITIONING OF MIAMI-DADE TRANSIT BUSES TO THE PUBLIC IN ORDER TO INCREASE COMMUNICATION, EFFICIENCY, AND EASE OF RIDERSHIP

WHEREAS, Miami-Dade Transit must look for innovative ways to provide value and service to the riding public without increasing costs; and

WHEREAS, Miami-Dade Transit buses are now equipped with Global Positioning Systems ("GPS") to track their location; and

WHEREAS, providing the GPS coordinates in real-time to the riding public through an online website would allow the riding public to check the location of any Miami-Dade Transit bus; and

WHEREAS, providing online GPS coordinates in real time would likely increase ridership by making buses more accessible to more potential riders; and

WHEREAS, providing this service would increase communication and interactivity between Miami-Dade Transit and the riding public,

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that the County Mayor or Mayor's designee is directed to prepare a report on the feasibility of providing real-time GPS positioning of Miami-Dade Transit buses online to the riding public. This report shall examine the implementation, cost, and any security issues associated with providing this online service.

This report shall be presented to the Transit, Infrastructure and Roads Committee as soon as practicable after completion.

The Prime Sponsor of the foregoing resolution is Commissioner Joe A. Martinez. It was offered by Commissioner **Sally A. Heyman**, who moved its adoption.

The motion was seconded by Commissioner **Katy Sorenson** and upon being put to a vote, the vote was as follows:

	Dennis C. Moss, Chairman	aye	
	Jose "Pepe" Diaz, Vice-Chairman	aye	
Bruno A. Barreiro	aye	Audrey M. Edmonson	aye
Carlos A. Gimenez	aye	Sally A. Heyman	aye
Barbara J. Jordan	aye	Joe A. Martinez	aye
Dorrian D. Rolle	aye	Natacha Seijas	aye
Katy Sorenson	aye	Rebeca Sosa	aye
Sen. Javier D. Souto	aye		

The Chairperson thereupon declared the resolution duly passed and adopted this 21st day of July, 2009. This resolution shall become effective ten (10) days after the date of its adoption unless vetoed by the Mayor, and if vetoed, shall become effective only upon an override by this Board.

MIAMI-DADE COUNTY, FLORIDA
BY ITS BOARD OF
COUNTY COMMISSIONERS

HARVEY RUVIN, CLERK



By: **DIANE COLLINS**
Deputy Clerk

Approved by County Attorney as
to form and legal sufficiency.

Alexander S. Bokor