



City Commission Meeting

ADDENDUM MATERIAL 1

City Hall, Commission Chambers, 3rd Floor, 1700 Convention Center Drive
January 14, 2015

Mayor Philip Levine
Vice-Mayor Joy Malakoff
Commissioner Michael Grieco
Commissioner Micky Steinberg
Commissioner Edward L. Tobin
Commissioner Deede Weithorn
Commissioner Jonah Wolfson

City Manager Jimmy Morales
City Attorney Raul J. Aguila
City Clerk Rafael E. Granado

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ATTENTION ALL LOBBYISTS

Chapter 2, Article VII, Division 3 of the City Code of Miami Beach entitled "Lobbyists" requires the registration of all lobbyists with the City Clerk prior to engaging in any lobbying activity with the City Commission, any City Board or Committee, or any personnel as defined in the subject Code sections. Copies of the City Code sections on lobbyists laws are available in the City Clerk's office. Questions regarding the provisions of the Ordinance should be directed to the Office of the City Attorney.

ADDENDUM AGENDA

C4 - Commission Committee Assignments

- C4K Referral To Finance And Citywide Projects Committee - A Discussion On Repurposing The Citywide Public Access WiFi System For Police Equipment Connectivity - Fiscal Year 2014-2015 In Accordance With The Options Pursuant To LTC 272-2014.
(Police)

R9 - New Business and Commission Requests

- R9Q Discussion Related To The City's Traffic Flow Mitigation Plan.
(Requested by Mayor Philip Levine)
- R9R Discussion Related To The City's Centennial Celebration.
(Requested by Mayor Philip Levine)

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City of Miami Beach, 1700 Convention Center Drive, Miami Beach, Florida 33139, www.miamibeachfl.gov

COMMISSION MEMORANDUM

TO: Mayor Philip Levine and Members of the City Commission

FROM: Jimmy L. Morales, City Manager

DATE: January 14, 2015

SUBJECT: **REFERRAL TO FINANCE AND CITYWIDE PROJECTS COMMITTEE – A DISCUSSION ON REPURPOSING THE CITYWIDE PUBLIC ACCESS WIFI SYSTEM FOR POLICE EQUIPMENT CONNECTIVITY - FISCAL YEAR 2014-2015 IN ACCORDANCE WITH THE OPTIONS PURSUANT TO LTC 272-2014.**

ADMINISTRATION RECOMMENDATION

Refer the item to the Finance and Citywide Projects Committee for discussion.

BACKGROUND

The Administration recommends that the Mayor and City Commission refer this item to the Finance and Citywide Projects Committee for a discussion on repurposing the Citywide Public Access WiFi System for Police Department equipment connectivity.

- In 2004-2005 the City of Miami Beach began a plan to enact a Citywide open WiFi. The Miami Beach WiFi Project resulted in a Request for Proposal being issued in July 2005 and ultimately the City awarded the project to IBM in March 2006.
- IBM was the project manager and contracted Big Wireless to handle the bulk of the installation to include:
 - “The Ring” – A microwave backhaul loop where the data transmission would be sent through encompassing several buildings/sites which were also being used for the City’s radio communications. The microwave transmissions are via a licensed frequency requested by the City and granted by the Federal Communications Commission (FCC).
 - “Sectors” – At each backhaul site microwave sectors receive/transmit from all of the ground level gateways.
 - “Subscriber Units/ Gateways” – Units on poles which interact with the public accessing the internet.
 - Several pieces of hardware located at the backhaul sites and in the data center located in the Police Department.
 - Worked with IBM and the City of Miami Beach IT personnel in various phases of programming.
- The WiFi system went online for all users in October 2009 and the City Manager accepted the network in January 2010.

Agenda Item C4K
Date 1-14-15

- In September 2013 the City Commission accepted the recommendation to discontinue funding the Miami Beach WiFi Project starting in the FY 2014 budget due to information and statistics provided showing the following:
 - The system had failed to eliminate the need for the City to spend \$500,000 annually in internet services due to slow speeds and reliability issues.
 - Few Miami Beach residents were regularly relying on the WiFi system due to slow speeds, inability to receive WiFi signals above a couple of stories in buildings, and reliability issues.
 - Maintenance costs moving forward were projected in the \$710,000 range with an additional estimated \$1,250,000 for equipment upgrades every four years not covered in the original agreement.
- In Q1-Q2 2014, the City and IBM parted ways. In August 2014, the City Administration issued an LTC (#272-2014) conveying the information listed above and establishing May 1, 2015 as the date the WiFi system will go offline.
- In November 2013, the Police Department expressed interest in repurposing the WiFi system to meet their needs for connectivity of police equipment (such as mobile command vehicles, computers, cameras, license plate readers, etc.)
- The Police Department met with the Information Technology (IT) Director Ariel Sosa, senior IT administrators, Assistant City Manager Mark Taxis and the City Manager expressing interest in using the “backhaul” of the system along with other components to gather feedback and feasibility. Responses were favorable.
- The Police Department met with Big Wireless to discuss repurposing the existing system for the Police Department use, costs, speed, and reliability concerns since they were the sub-contractors who built and supported the system.

CONCLUSION

The Administration is seeking approval from the Mayor and City Commission regarding the repurposing of this system. Otherwise, the Police Department would require the use of a similar system which would need to be built from the ground up. The Police Department would like to conduct due diligence and proceed in two phases:

- Initial repurposing set-up and training for Police Department staff with a trial period evaluating system capabilities. Estimated cost \$17,100.00 (one-time), from departmental savings.
- Continue use of the system post trial/evaluation period if the Police Department staff determines there is value in continuing the project. Estimated cost \$60,000.00 (annually), as part of FY 2016 budget.

JLM/DJO/DH



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CITY CLERK'S OFFICE

OFFICE OF THE CITY MANAGER

NO. LTC # **272-2014**

LETTER TO COMMISSION

TO: Mayor Philip Levine and Members of the City Commission

FROM: Jimmy L. Morales, City Manager *[Signature]*
for JLM

DATE: August 7, 2014

SUBJECT: City Wi-Fi System

The purpose of this Letter to Commission is to provide information and statistics that were considered by the City Commission last year (September 24, 2013) regarding the utilization of the wireless Miami Beach Wi-Fi project when they accepted the recommendation in the FY 2014 budget to discontinue funding the system. Since a few individuals have reached out to some of you recently regarding their loss of the free Wi-Fi service, I thought it would be useful to revisit the analysis provided last year.

The WiFi Miami Beach project began with an RFP issued in July 2005. The City entered into an agreement with IBM in March 2006. An official "wire" cutting ceremony took place on October 30, 2009 and the network entered into a reliability period of 90 days during which the network was available for all users.

The City Manager accepted the network on January 29, 2010. After the system was accepted, as per the contract terms, the City started to pay IBM for maintenance as detailed in Table 1 below. Additionally, the City budgeted annually for replacing parts that were not covered by the maintenance and warranty provided by IBM (\$60,000) and for the cost of the FPL agreement (approximately \$13,000).

Table 1: Fee Schedule

<i>Fiscal Year</i>	<i>FPL Budgeted</i>	<i>HW Contingency</i>	<i>IBM Maintenance</i>	<i>Total</i>
<i>half of FY 09-10</i>	\$ 13,000	\$ 60,000	\$ 264,424.50	\$ 337,424.50
<i>FY 10-11</i>	\$ 13,000	\$ 60,000	\$ 560,644.00	\$ 633,644.00
<i>FY 11-12</i>	\$ 13,000	\$ 60,000	\$ 610,024.50	\$ 683,024.50
<i>FY 12-13</i>	\$ 13,000	\$ 60,000	\$ 632,972.00	\$ 705,972.00
<i>FY 13-14</i>	\$ 13,000	\$ 60,000	\$ 651,392.00	\$ 724,392.00
<i>FY 14-15</i>	\$ 13,000	\$ 60,000	\$ 637,449.50	\$ 710,449.50
<i>half of FY 15-16</i>	\$ 13,000	\$ 60,000	\$ 305,224.50	\$ 378,224.50
	\$ 91,000	\$ 420,000	\$ 3,662,131	\$ 4,173,131

The projected maintenance costs moving forward were assumed to remain in the \$710,000 range for the near future. Furthermore, every four years the City would need to assume an

additional estimated \$1,250,000 for equipment replacement.

When I was appointed the City Manager last year, I learned early on that the Wi-Fi system had not lived up to its expectations. First, the creation of the Wi-Fi network was supposed to eliminate the need of the City to spend approximately \$500,000 for its own internet service needs. Unfortunately, because the system was slow and unreliable, it did not meet the City's needs and the City continued to spend the \$500,000 on internet services. Secondly, the anecdotal information I received was that due to the slow and unreliable service, few people actually used the system. I also understood that the system had physical limitations once you went above a couple of stories in buildings. As such, I asked staff to determine how many of our residents actually relied on this system in order to determine whether spending nearly ¾ of a million dollars annually was justified.

On September 25, 2012, a new Portal was installed in the Wi-Fi system that began to maintain user accounts based on the following two rules:

1. Users who identified themselves as residents during the account creation process would have their accounts deleted after 6 months of not logging in.
2. Users who identified themselves as visitors during the account creation process would have their accounts deleted after 3 months of not logging in.

Using these two rules, the new Portal started to delete inactive accounts as highlighted below:

Date	Total Registered Users	Inactive Registered Users Deleted
4/9/13	35,600	15,108
4/10/13	20,492	
4/29/13	23,424	3,162
4/30/13	20,262	
5/30/13	24,815	4,735
5/31/13	20,080	
6/29/13	24,214	5,578
6/30/13	18,636	
7/30/13	23,068	4,875
7/31/13	18,193	
8/30/13	23,287	4,736
8/31/13	18,551	

Additionally, a sample of the utilization statistics provided the following highlights:

- For the weeks of September 9 and September 16, 2013:
 - every day = 247 users (Approximately 60 Residents and 185 Visitors)
 - at least three days a week = 1,119 users (Approximately 280 Residents and 840 Visitors)
 - at least once = 3,619 users (Approximately 850 Residents and 2,770 Visitors)
- The average age of all active user accounts is 87 days.
- There were approximately 15,000 visitor accounts and 5,000 resident accounts.

This data verified the anecdotal evidence that very few residents were regularly relying on the system. Based on this data, the City Commission adopted a budget that eliminated funding for the system.

The City asked IBM to provide an estimated annual cost savings based on redesigning the system from providing coverage citywide to providing coverage at select locations. Although IBM presented scenarios using approximately one-half and one-fourth as many WiFi routers as are currently installed and maintained, the annual associated savings in maintenance would have only ranged from \$55,000 to \$77,000.

In fiscal year 2013/14, the City began planning to re-scope the municipal WiFi project to deliver an enhanced WiFi signal to select facilities, rather than citywide, thereby reducing the need for annual funding from approximately \$720,000 to \$200,000. The City's IT department worked closely with Executive Staff to determine the select facilities and implementation schedule. By November of 2014, the IT department will have a free robust Wi-Fi system available at City Hall, and it is anticipated that by April of 2015 the IT department will have free Wi-Fi also available at North Shore Park Youth Center and Scott Rakow Youth Center. The goal is to eventually have free Wi-Fi at all City parks and any other facilities that are regularly visited by the public.

In the meantime, the IT department has taken over the temporary maintenance of the City Wi-Fi system. While the equipment is outdated and failing, we have done our best to continue to offer free City Wi-Fi until such time that City Hall, North Shore Park Youth Center and Scott Rakow Youth Center are online.

In conclusion, our free city-wide Wi-Fi system is failing and is on course to go offline by May 1, 2015. There is interest from our Police Department and Emergency Management to utilize components of the Wi-Fi backbone for internal purposes.

Please contact me if you have any concerns or require additional information.

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MIAMI BEACH

OFFICE OF THE MAYOR AND COMMISSION

MEMORANDUM

TO: Jimmy Morales, City Manager
FROM: Mayor Philip Levine, Mayor
DATE: January 14, 2015
SUBJECT: Traffic Flow Mitigation Plan

Please place a discussion item on the agenda related to the City's Traffic Flow Mitigation Plan.

If you have any questions, please do not hesitate to contact Alex Miranda at AlexMiranda@miamibeachfl.gov.

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MIAMI BEACH

OFFICE OF THE MAYOR AND COMMISSION

MEMORANDUM

TO: Jimmy Morales, City Manager
FROM: Mayor Philip Levine, Mayor
DATE: January 14, 2015
SUBJECT: Miami Beach Centennial Celebration

Please place a discussion item on the agenda related to the City's Centennial Celebration.

If you have any questions, please do not hesitate to contact Alex Miranda at AlexMiranda@miamibeachfl.gov.

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