



**CITY OF HOUSTON**  
 HAS Purchasing Unit 2800

PO NUMBER MUST APPEAR ON ALL PAYMENT AND  
 DELIVERY CORRESPONDENCE

# PURCHASE ORDER

**Vendor Address**  
 Vendor Address Number 108773  
 INFAX INCORPORATED  
 4250 RIVER GREEN PKWY - SUITE D  
 DULUTH GA 30096  
 USA

**Mail Invoice to**  
 COH DEPARTMENT OF AVIATION  
 ACCOUNTS PAYABLE  
 PO Box 60106  
 HOUSTON TX 77205-0106

**Information**  
**Purchase Order Number/Date** 4500157573-0 / 03/12/2012  
**CoH Vendor Number** 108773  
**Page** 1 of 2  
**Buyer's Name** Carla Haseltine 403  
**Buyer's Telephone Number** 281-230-8051  
**Buyer's Fax Number** 281-233-1685  
**Buyer's E-mail Address** carla.haseltine@cityofhouston.net

**Shipping Address** HOUSTON AIRPORT SYSTEM  
 SUPPLY CHAIN MANAGEMENT WAREHOUSE  
 BUYER  
 18600 LEE ROAD  
 HUMBLE TX 77338

**Terms of payment :** Within 30 days Due net Currency USD

**Shipping Terms** FOB(Free on board) /DESTINATION

**Our reference:** 2011-0402

**Your person responsible:** MIKE DAVIS

**Your reference:** E23872

Item	Quantity	UM	Material # / Description	Unit Cost	Extended Cost
10	1.00	AU	20800 COMPUTER SOFTWARE PC Dev Automated Wait Time Tracking App-IAH Release Order against contract 4600010983 Item 00040 OSR# 001 Provide software engineering and material to integrate automated wait time tracking application with bluetooth passenger tracking with HAS FIDS platform for IAH & HOU.	150,320.00 / AU	150,320.00
	Gross Price		150,320.00 USD	1 AU 1.000	150,320.00
			Expected value of unplanned services:	150,320.00	
<b>Delivery Date:</b> 04/27/2012					
20	1.00	AU	20800 COMPUTER SOFTWARE PC Dev Automated Wait Time Tracking App-HOU Release Order against contract 4600010983 Item 00040	37,580.00 / AU	37,580.00
	Gross Price		37,580.00 USD	1 AU 1.000	37,580.00
			Expected value of unplanned services:	37,580.00	



**CITY OF HOUSTON**  
HAS Purchasing Unit 2800

PO NUMBER MUST APPEAR ON ALL PAYMENT AND  
DELIVERY CORRESPONDENCE

# PURCHASE ORDER

PO number/date 4500157573 -0 / 03/12/2012 Page 2 of 2

Item	Quantity	UM	Material # / Description	Unit Cost	Extended Cost
Delivery Date: 04/27/2012					
<b>Total ****</b>				USD	<b>187,900.00</b>
2011-0402 ORD PASSED 6/1/2011 EXECUTED BY MAYOR 6/9/2011 CS 6/10/2011					

**The Terms and Conditions specified on <http://purchasing.houstontx.gov> will apply.**

I hereby certify a certificate of the necessity of this expenditure is on file in this department.

I hereby certify that the expenditure for the above goods has been duly authorized and appropriated and that sufficient funds are available to liquidate same.

Handwritten signature of the Mayor.

Mayor

Handwritten signature of the Purchasing Agent.

Purchasing Agent

Handwritten signature of the Controller.

Controller

**OTHER SERVICE REQUEST (OSR)  
Houston Airport System**

IAH  HOU  EFD

SAP OA# 46000010983

OSR NUMBER: OSR 001

To: Infax, INC From: City of Houston, Texas (the City)  
 Date: March 6, 2012 Requesting Section: Technology Division - ATG  
 Subject: Other Service Request pursuant to that certain Department of Aviation  
 Contract at Houston Airport System between the City and Infax, INC  
 countersigned by the City Controller on June 10, 2011

Subject to all terms and conditions of the Contract, the City requests that the Contractor provide the following assessment:

Provide software engineering and material to integrate automated wait time tracking application with bluetooth passenger tracking with HAS FIDS platform for IAH and HOU.

Damaged  Normal Wear Tear  Improvement

**CONTRACTOR**

Received by: \_\_\_\_\_ Date Returned to the Field: \_\_\_\_\_  
 Date Received: \_\_\_\_\_ Time to Complete Work: \_\_\_\_\_

DESCRIPTION	Material Price	Labor Price	Mark Up/Discount	FREIGHT	TOTAL
Automated Wait Time Project					\$ 187,900.00
<b>COST NOT TO EXCEED</b>					<b>\$ 187,900.00</b>

**HOUSTON AIRPORT SYSTEM APPROVAL**

In accordance with the above description of the OSR requirements and proposed costs, this request is approved effective with the following approval date of this OSR.

Recommended by: [Signature] SAP PR# 10145796  
 Approved by: [Signature] SAP PO# 4500157573  
Field (Date) Field (Date)

**ACCEPTANCE**

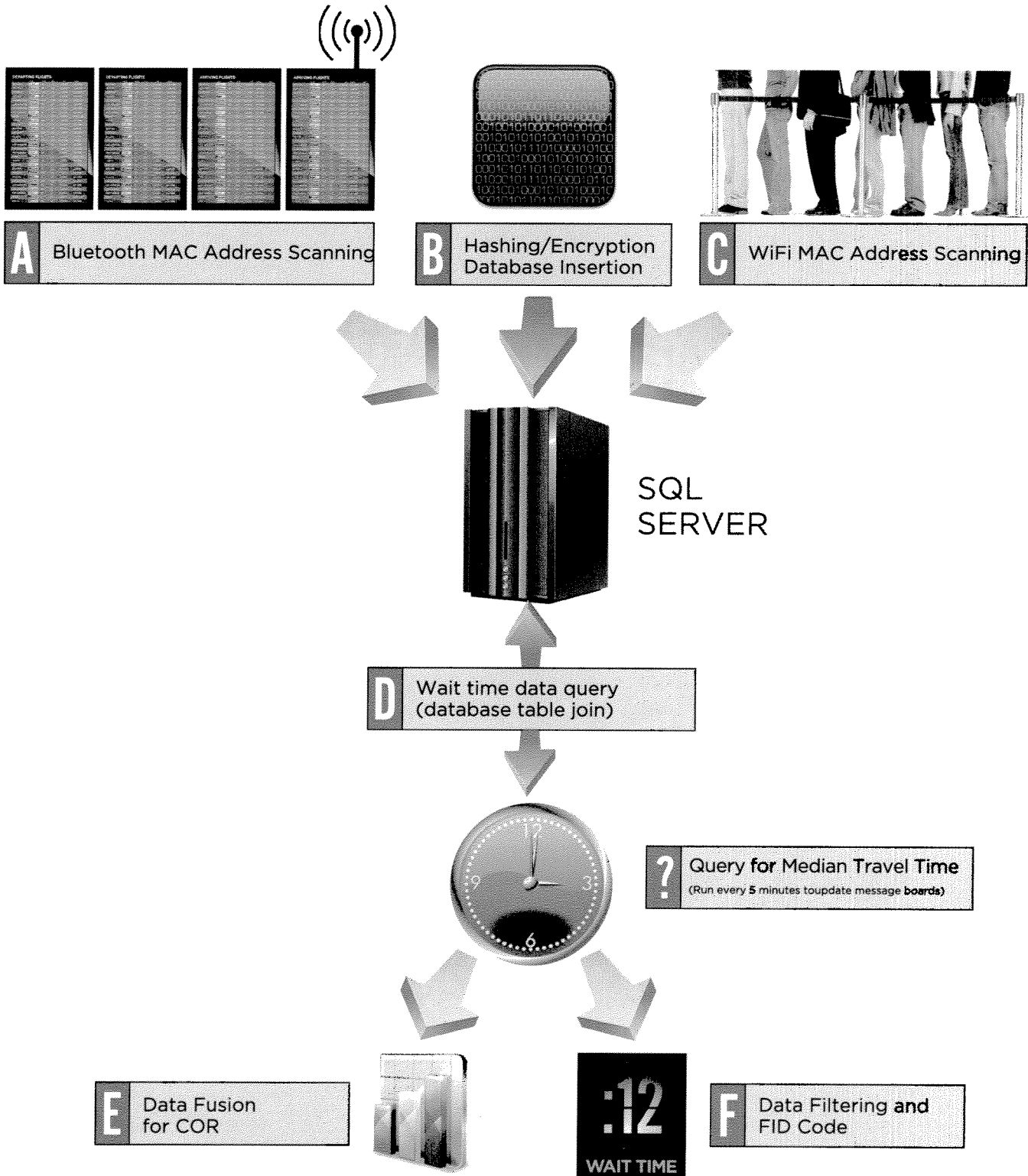
The above work/service as described above has been inspected and determined to be performed in a satisfactory manner in accordance with the Contract Provisions and other Specification Requirements as outlined for this request.

Completed: \_\_\_\_\_ Date: \_\_\_\_\_  
Contractor's Authorized Signature  
 Accepted: \_\_\_\_\_ Date: \_\_\_\_\_  
Field

This OSR as defined in the contract, together with all OSR's issued prior to the Charge OSR shown above may not exceed the limit prescribed by the Contract.



# AUTOMATED WAIT TIME TRACKING APPLICATION PROPOSED FLOW DIAGRAM





4250 River Green Parkway · Suite D  
Duluth, Georgia 30096

## **AUTOMATED WAIT TIME TRACKING APPLICATION SOFTWARE ENGINEERING PROJECT**

### **Scope of work with hourly rates for development**

Rates based on Exhibit C

City of Houston – Infax, Inc. Contract June 1, 2011

March 2, 2012

### **Scope of Work:**

**Provide software engineering** and integrate Bluetooth signal collection modules with existing Infax DDC devices. These devices will be used for data collection and transmission of data to SQL database. Requirements include:

- Develop rules and logic for Bluetooth and WiFi MAC address scanning
- These include how often scanning shall occur and where antennas are placed in the test location.
- Provide method of changing collection parameters in a real-time
- Determine what data is collected for compliance with privacy issues
- Provide timestamp and real time signal strength indication for each MAC address tracked and real time match MAC address in monitored locations
- Develop software “hash tag” encryption for data exchange

Software services hourly rate:	\$150.00
Number of hours:	80
<b>Total price:</b>	<b>\$12,000.00</b>

**Provide software interface** from Infax SQL database to Aruba Airwave database using available API for data collection of Wi-Fi hotspots.

- Integrate software rules and logic developed for Bluetooth devices and apply to WiFi devices

Software services hourly rate:	\$150.00
Number of hours:	80
<b>Total price:</b>	<b>\$12,000.00</b>



**Develop SQL database schema for Bluetooth and Wi-Fi data.**

Software services hourly rate:	\$150.00
Number of hours:	80
<b>Total price:</b>	<b>\$12,000.00</b>

**Develop interface with video “trip-line” camera system and SQL database.**

- On-site technical services for development of monitoring video flow crossing the “trip-line”

Technical services hourly rate:	\$125.00
Number of hours:	80
<b>Total price:</b>	<b>\$10,000.00</b>

**Develop analytics and statistics for database to include:**

- Device travel time between collection points
- MAC addresses cross reference of device type (if data is available)
- Provide counts of devices at locations real-time and archival
- Provide device signal strength of specific MAC address (if data is available)
- Provide longitudinal data history for both Bluetooth and Wi-Fi devices
- Provide data filtering for all non-applicable data

Software services hourly rate:	\$150.00
Number of hours:	200
<b>Total price:</b>	<b>\$30,000.00</b>

**Develop “dashboard” analytics tool for real time and historical data presentation.**

- Software engineering for displaying in “real-time” information of wait-times, device counts, device types and time between collection points
- Software engineering for displaying historical information of wait-times, device counts, device types and time between collection points

Software services hourly rate:	\$150.00
Number of Hours:	160
<b>Total price:</b>	<b>\$24,000.00</b>



4250 River Green Parkway · Suite D  
Duluth, Georgia 30096

**Develop SQL reports** through SQL reporting tool for real time and historical data (print format and e-print).

Technical services hourly rate:	\$125.00
Number of hours:	40
<b>Total price:</b>	<b>\$5,000.00</b>

**Provide on-site engineering support** for deployment of Bluetooth and Wi-Fi signal collection modules.

Technical services hourly rate:	\$125.00
Number of hours:	144
<b>Total price:</b>	<b>\$18,000.00</b>

**Provide software project development** documents for scope of work.

Technical services hourly rate:	\$125.00
Number of hours:	40
<b>Total price:</b>	<b>\$5,000.00</b>

**Provide software project schedule** for scope of work.

Technical services hourly rate:	\$125.00
Number of hours:	40
<b>Total price:</b>	<b>\$5,000.00</b>

**Provide third-party engineering on-site services** for Bluetooth and Wi-Fi integration.

Technical services hourly rate:	\$125.00
Number of hours:	280
<b>Total price:</b>	<b>\$35,000.00</b>



4250 River Green Parkway · Suite D  
Duluth, Georgia 30096

**Bluetooth receiver and equipment material allowance**

**Total price: \$5,000.00**

**Travel allowance**

- Site expenses are estimated and will be invoiced per Paragraph 13  
"Reimbursable Costs" of the contract.

**Total price: \$8,500.00**

**Site expenses allowance (hotels, meals, etc.)**

- Site expenses are estimated and will be invoiced per Paragraph 13  
"Reimbursable Costs" of the contract.

**Total price: \$6,400.00**

**Grand total price: \$187,900.00**