



**e-Citation/Mobile Data Capture System
for Law Enforcement
Proposal: 28 eCitation Licenses**



Presented to:

**City of
Eules**

Submitted by:

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Proposal Date:

March 14, 2013

Proposal is valid for 30-days from the above-listed date.

Overview

It is our privilege to present the City of Euless with the benefits of implementing the electronic hand-held ticket writers. We welcome this opportunity to engage with the City of Euless in a successful endeavor, which will become the icon of the industry. Brazos Technology is committed to leveraging technology to optimize the performance of law enforcement, and our goal is to assure that your wants, needs and must haves are satisfied while performing above and beyond your expectations of a vendor.

This proposal outlines the hardware, software and resources needed to implement Brazos Technology's e-citation solution, with its inherent advantages, which will empower the department to be technologically innovative as your needs evolve. It also provides budgetary costs and outlines the next steps and assumptions in moving forward.

Thank you for your consideration. We encourage an interactive decision process, which will allow us to answer your questions and provide clarity to ensure that you are confident in making an informed decision.

Pricing Summary

Total project cost including software, hardware, and services*	\$112,440
Total annual fees after year one*	\$8,300

* Please see pages 9 - 13 for details

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Executive Summary

Today more and more Law Enforcement Agencies are looking for ways to improve the efficiency of the citation-writing process. Through the use of advanced mobile technologies, the capabilities in extending applications to mobile personnel are becoming more and more robust.

As Law Enforcement Agencies are beginning to extend applications to mobile devices, several aspects of this solution are critical:

- 1) Ability to extend multiple different applications to each singular device
 - a) Allowing data to be “sent” from each application to each designated device
 - b) Allowing data to be “collected” at the point of activity and reach back to those multiple data sources as well.
- 2) Ability for Law Enforcement Personnel to easily and quickly enter data (much of which can be done through auto-population such as Drivers License swiping and VIN Tag scanning) into the mobile device.
- 3) Ability for Law Enforcement Personnel to easily read, enter and manipulate data via a compact mobile device.
- 4) Ability to quickly dispose of (drop or throw) devices in case of emergency – without damaging and routinely replacing each hand-held device.
- 5) Ability for the data to interface with the Municipal Court system.

This document outlines how Law Enforcement Agencies can leverage Brazos Technology’s Rapid Extension Framework (REF) and Motorola Hand-held Scanners to achieve these goals. This technology is designed to afford each Law Enforcement Agency the following benefits, including but not limited to:

- **Reallocation of Human Resources** – Citation data is electronically entered at the point of activity, so court personnel must no longer re-enter data from hand-written tickets and are available for other tasks.
- **Reduced paper flow** – Citations are printed singularly rather than in triplicate (or more), thereby reducing paper flow between Law Enforcement and the Administrative Office of the Courts.
- **Minimal data entry errors** – Minimize costly mistakes by enforcing business rules via technology, reduce amount of hand written data, and remove the need to manually transfer information from written citation to electronic database.

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Brazos Technology Corporation e-Citation Solution Diagram

Law Enforcement personnel collects data by swiping Driver's License via the Mag Stripe Reader, Gain Vehicle Make, Model, and Year by scanning the Registration Tag, and easily choose offenses from drop down menus on the mobile device. Options are also available to gain key information (such as name) from credit cards, local student ID cards, etc. should an offender not have a license at time of traffic stop.



Officer with Motorola Wireless Unit

Handheld unit "speaks" directly to the printer via Bluetooth connection. The officer collects ticket (printed while officer is walking from offender's car) at the officer's vehicle. Citation printout includes all required instructions for the offender, offender's signature, and is designed to match the specific requirements of each PD.



Vehicle with Wireless Zebra Printer



Court and Law Enforcement Agency

Captured Citations are uploaded to the PD and Municipal Court Databases without the need for an intermediary server.

Officers simply place the handheld devices in their cradles at the end of the shift. All citations are uploaded while software upgrades and changes are download automatically.

Note: This is only a sample layout of communication between resources. This entire process is **customizable** depending upon **your** particular needs.

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About Brazos Technology Corporation

Brazos Technology provides solutions and services designed to optimize the use of mobile technology within an organization – with a strong focus on extending Law Enforcement applications and databases to devices in the hands of Law Enforcement personnel.

Brazos Technology was formed in 2000 and is committed to providing rock-solid solutions that are applicable and relevant to the unique needs of the men and women in law enforcement.

With more than 300 agencies actively using the Brazos Technology Ticket Writer, Brazos has been able to establish a proven track record of combining a solid solution with superior implementation, training and customer service.

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About Brazos Technology Corporation's Partner - Motorola

Motorola is a global leader in secure mobile information systems that integrate application-specific handheld computers with wireless networks for data, voice and bar code data capture. Motorola products and services increase productivity and reduce costs for the world's leading retailers, logistics and transportation companies, government agencies, manufacturers and providers of healthcare, hospitality and homeland security.

Motorola's proven technology delivers efficiency. A unique combination of industry-leading innovation and award-winning ergonomic design, with miniaturization, superior power management and product ruggedization is the hallmark of Motorola's products.

Automated Citation Solutions - Motorola

Throughout the world, most law enforcement citations issued by police officers or officials for traffic or other minor violations are handwritten. After issuance, the citations (also called tickets, violation notices or infringement notices) are then manually entered into multiple databases using a key-based system. These manual systems are prone to many data entry errors or misinterpretation due to illegible writing.

Data entry error from these manual processes has far-reaching cost, efficiency and accuracy implications at each level of government:

- **Police services, departments and authorities:** inaccurate records of violations
- **Court and justice services:** reduced ability to prosecute, convict or collect revenue efficiently
- **Motor vehicle departments:** inability to ensure that motorists with repeat violations remain off the road
- **Transportation departments:** inability to plan infrastructure improvements related to traffic signs, signals and congestion areas



Because of these inefficiencies and the resulting low productivity, the old manual key-based data entry processes have a negative effect on the organization's ability to serve the public.

A proven solution is available to eliminate these inefficiencies: **wireless handheld mobile computing systems.**

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Software

Remote Data Capture (RDC) - Designed to run on any Windows CE or Pocket PC mobile device, RDC has been specifically designed for the unique constraints of a mobile device, to include small screen size, lack of true keyboard for entry, and the availability of barcode scanners and camera. RDC is completely flexible, allowing for the enforcement of business rules specific to your needs, to ensure speed and accuracy in performing mobile tasks and data collection. RDC supports any number of tasks, allowing a single device to serve in many capacities simultaneously. Brazos Technology refers to the combination of a mobile device and the RDC application as "an RDC".

Brazos Technology's RDC has also been specifically tailored to work in an e-Citation environment to meet the unique demands of each individual law enforcement agency – and with little effort be able to meet the constant demands brought on by:

- Changes in local and national laws,
- Changes in business processes,
- Changes and upgrades of back-end systems connecting to the mobile devices,
- And changes and upgrades of the mobile devices themselves.

Training

Brazos Technology provides training on two levels – (1) the administration and operation for overall management of the framework and configuration and (2) the mobile device user for the daily tasks, which will be performed using the e-Citation platform. One or more persons should be identified as the designated trainer(s). Brazos Technology will equip the designated internal trainers to perform training as needed.

Brazos Technology also offers a more comprehensive training program that entails having a Brazos representative on-site during the rollout of the application. During the rollout phase, the Brazos representative can 'ride-along' with the officers to provide on the job training – which has proven to be the most beneficial way to ensure officer is up to speed in the most efficient way possible.

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Hardware

Motorola MC75A with 2D Barcode Scanner



Rated for a 4-5 foot drop to concrete and water resistant means your officers will be using the most rugged, reliable ticket writer available! Using it in the rain is also no problem. It has a 624MHz processor, 256 MB of RAM, Microsoft Mobile 6.0 operating system, 802.11 connectivity, a Bluetooth radio, GPS, and cellular capability. This device has a built-in 2D scanner and a 2 megapixel, autofocus camera which allows the Brazos Solution to capture pictures, associate those pictures with the citation, and scan 2D barcodes.

For complete technical specifications, please go to the following URL:

http://www.motorola.com/Business/US-EN/Business+Product+and+Services/Bar+Code+Scanning/Scan-equipped+Mobile+Computers/MC75A_US-EN

ZEBRA RW420 Printer



Designed for the Road Warrior, the Zebra RW 420 is a mobile printer ideal for Law Enforcement applications. Its convenient vehicle mounting and charging options, as well as its user-intuitive interfaces and angled display allow for ease-of-use while on the go!

For complete technical specifications, please go to the following URL:

<http://www.zebra.com/id/zebra/na/en/index/products/printers/mobile/rw420.html>

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Number of mobile devices: 28

Number of MDC's: 0

Description	Price
Software and Services	\$31,200
Hardware - Printers	\$22,782
Printer Paper	\$595
Hardware - Devices	\$60,363
PROJECT PRICE	\$114,940
Special Pricing Allowance For Selected Task	-\$2,500
TOTAL PROJECT PRICE	\$112,440

TOTAL ANNUAL FEES AFTER FIRST YEAR	\$8,300
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Software and Services			
Description	Unit Price	Qty	Extended Price
MaeKIT (RDC) Brazos Software <ul style="list-style-type: none"> ● One (1) year maintenance/support ● Citations & Warnings ● Parking Tickets ● Stand-alone Racial Profiling (when not captured via the other 	\$650	28	\$18,200
Third Party Hardware Purchase Services - MDC/PDA	\$50	0	\$0
State Compliant Crash Report Configuration and Setup (Inc. Tow Rpt.)	\$2,500	0	\$0
State Compliant Crash Report Software per Device	\$200	0	\$0
State Compliant Crash Report Training - 6 Hours	\$1,500	0	\$0
Tow Report w/Vehicle Inventory	\$2,500	0	\$0
Field Interview Task	\$2,500	1	\$2,500
Criminal Trespass Warning	\$2,500	0	\$0
Equipment Check In/Out	\$2,500	1	\$0
Setup and Configuration of Solution *One-time fee independent of number of devices <ul style="list-style-type: none"> ● Customized Screen and Print Layouts (from an existing layout) ● Integration with court software ● Installation of all software at customer site ● Customization of additional reports 	\$7,500	1	\$7,500
**Translation Services - \$200 fee / language	\$200	0	\$0
Standard Training Package <ul style="list-style-type: none"> ● Two (2) days of Officer Train-The-Trainer training <ul style="list-style-type: none"> ○ Max Group Size = 12 ○ Preferable to have one officer per device ○ Includes Classroom and In-Field Training ● Court Process training ● System Administrator training ● Web Based Reports and Data Search training ● Online Training and Reference Materials provided 	\$3,000	1	\$3,000
Additional Training Days (Customized to meet the needs of the Agency) **travel and expenses not included**	\$1,500	0	\$0
Hosted TLETS Message Switch Setup & Installation <ul style="list-style-type: none"> ● Standard NCIC/TCIC Requests & Returns 	\$1,500	0	\$0
TLETS Message Switch User Setup (\$250 / unit)	\$250	0	\$0
Total for Software and Services:			\$31,200

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Hardware - Printers			
** Assumes all devices are not mounted in vehicles and that the wall charger is purchased.			
Description	Unit Price	Qty	Extended Price
Zebra RW420 Bluetooth Printer <ul style="list-style-type: none"> One (1) year manufacturer's warranty Bluetooth Communications *To charge this printer you will need either the vehicle or wall mounted chargers below 	\$731	21	\$15,351
Third Party Hardware Purchase Services - Printer	\$50	0	\$0
Vehicle Charger for Printer (optional) <ul style="list-style-type: none"> 12VDC with pigtails to wire directly into a vehicle * Installation Not Included	\$95	0	\$0
Wall Charger for Printer (optional) <ul style="list-style-type: none"> 110VAC plug to recharge the printer from a standard wall socket 	\$70	0	\$0
Vehicle Doc w/Charger for RW420 (optional) <ul style="list-style-type: none"> Docking unit to secure printer in vehicle installations * Installation Not Included	\$250	0	\$0
Zebra:AK18666-1 Kit Cable USB to RJ45	\$33	0	\$0
Zebra RW420 Bluetooth Printer w/MSR (R4D-0UBA010N-00)	\$780	7	\$5,460
Additional Batteries for RW420 (optional)	\$78	12	\$936
Zebra Charger Quad Li-Ion 4-Bay Battery Charger	\$345	3	\$1,035
Total for Printers:			\$22,782
Supplies			
Description	Unit Price	Qty	Extended Price
One case (36 rolls) of standard thermal paper	\$85	7	\$595
Total for Printer Paper:			\$595

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Hardware - MC75A			
Description	Unit Price	Qty	Extended Price
 <p><u>Motorola MC75A (2D Imager)</u></p> <ul style="list-style-type: none"> * Described above * Includes AT&T, Verizon, or Sprint Cellular Capability (must specify) * 2 Mega-pixel autofocus camera * Built-in GPS * Extremely Bright 640X400 Full VGA Screen 	\$1,670	21	\$35,070
Magnetic Stripe Reader Attachment	\$145	21	\$3,045
Single Docking Cradle <ul style="list-style-type: none"> ● Price includes all cables ● Requires Microsoft ActiveSync and computer w/Internet connection 	\$160	0	\$0
USB Charging Cable Assembly <ul style="list-style-type: none"> ● Price includes all cables ● Requires Microsoft ActiveSync and computer w/Internet connection 	\$95	0	\$0
PANASONIC Toughpad FZ-A1	\$1,695	7	\$11,865
4-bay Docking Cradle (Highly Recommended) <ul style="list-style-type: none"> ● Price includes all cables (power supply and 6' network cable) 	\$425	5	\$2,125
3-Year Bronze Support Extended Warranty <ul style="list-style-type: none"> ● Comprehensive Coverage (no fault) ● *Can only be purchased with new device 	\$265	21	\$5,565
PANASONIC Protection Plus, Toughpad PC (Year 1, 2, & 3) For FZ-A1	\$200	7	\$1,400
Additional Extended Life Battery <ul style="list-style-type: none"> ● 1.5x Battery 	\$59	12	\$708
4 - Bay Battery Charger Extended Life Battery	\$195	3	\$585
Auto Charger Cable <ul style="list-style-type: none"> ● Auto Charger Cable w/cigarette lighter adapter 	\$122	0	\$0
RAM Vehicle Cradle w/USB port <ul style="list-style-type: none"> ● Power and mounting bracket * Installation not included. * USB Type A Male to USB Type A Male Cable not included 	\$129	0	\$0
Total for MC75A:			\$60,363

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Ongoing Software Fees

Annual Fees after the first year

Brazos Technology	\$250 / unit	Annual	\$7,000
e-Citation updates, license renewal			
Brazos Technology e-mail Support			
Std maintenance covers config changes (up to 5 new fields and 1 new report per quarter)			

Crash Report	\$200 / unit	Annual	\$200
License Renewal			
e-Mail Support			

Interface to Court System	\$650	\$650
Interface to RMS System	\$650	\$650

*Any additional interfaces have an annual support cost of \$1000 ea.

TLETS Message Switch	\$250 / unit	\$0
Annual license and support		

(Not applicable unless Message Switch is activated.)

Total Annual Fees After First Year	\$8,300
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Point of Contact

The City of Euless and the Euless Municipal Court will have one (1) point of contact for implementation of software and subsequent maintenance needs. The point of contact with City of Euless will be determined later.

Brazos Technology will schedule a **Kick-Off Meeting** with client to confirm configuration information and schedule Implementation and Training.

Mutual Responsibilities

The successful implementation of this project is contingent upon two primary factors:

- 1) Brazos Technology's dedication to support the City of Euless throughout the pre-implementation and implementation phases, as well as throughout the lifecycle of the software to timely respond to support needs and
- 2) For the **Municipal Courts** and the **Police Department** to work diligently with Brazos Technology to identify and document its requirements and needs for this project (to be documented during pre-implementation phase) - as well as to show the dedication of its workforce to adopt such technology.

Rapid and Easy Extension of Other Applications

Because of Brazos Technology's unique methodology for extending applications to the mobile paradigm, the following are just a few examples of applications that could easily be extended to the mobile units literally within days of being requested by each agency (*please request a quote for this capability – not included in this quote*):

- **Accident/Crash Reports**
- **Seized Property and Evidence Tagging and Tracking**
- **Replacement gear ordering by officers**
- **Vehicle repair work-order submissions**
- **Community Outreach Programs Applications**
- **Rotation Wrecker Management System**

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Assumptions

The following are assumptions on which the recommendations in this Proposal are based:

1. All information sources required for the mobile device are accessible through the City of Euless network or the Internet.
2. Brazos will utilize the standard [court system] interface for the Municipal Court System.
3. Real-time NCIC/State Return queries are not required at this time. (unless indicated on page 10)
4. An active internet connection is available at the location where the synchronization device will be installed.
5. Brazos Technologies does not provide installation services for hardware to be "mounted" into vehicles.
6. Any interface costs levied by Court or RMS system providers are separate and not reflected in this proposal

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