NORTHGLENN POLICE DEPARTMENT

COUNCIL MEMORANDUM 2010-18

TO: Honorable Mayor Joyce Downing and City Council

THRU: William Simmons, City Manager

THRU: Shawn Cordsen, Finance Director

FROM: Russell L. Van Houten, Chief of Police

DATE: November 18, 2010

SUBJECT: **CR 154, Northglenn Municipal V.A.L.E. Grant Acceptance**

RECOMMENDATION:

Attached to this memorandum is a Resolution which, if approved, would accept a grant in the amount of $4,998.00 from Northglenn Municipal Victim Assistance and Law Enforcement Board ("V.A.L.E."). Staff recommends approval of the proposed Resolution.

BACKGROUND:

On November 3, 2010 we received notification from the VALE Board that they had approved a grant originally submitted in March, 2010 but returned for additional work. That work was completed and the Board reviewed the amended data and took action.

This grant for $4,998.00 is to purchase one Cellebrite™ device and two years of software updates (through 2012). This device is used to download information from cellular telephones. Currently, cellular telephones containing evidence of a crime must be sent to the Colorado Bureau of Investigation or another agency to download information contained on the internal memory of the device. The procedure often takes days if not months to get back making follow-up investigation difficult and time consuming. Many times, information from a cell phone, like calls/texts/pictures/audio and data recordings/etc. sent and received, subscriber numbers called and called from are important in domestic violence, harassment, financial crimes, kidnapping, child abuse and identity theft as well as other types of cases.

Cellebrite is portable and can easily be used at field locations as it does not require a larger laptop or desktop computer.

Being able to extract this information from a cellular phone immediately can and has already saved lives.

BUDGET IMPLICATIONS:

The 2010 Police Department Budget does not include moneys for this equipment. These funds will be transferred within the 2010 General Fund Budget from Municipal V.A.L.E. to the Police Department.

STAFF REFERENCE:

If Council members have any comments or questions they may contact Chief Van Houten at 303-450-8864 or by e-mail at rvanhouten@northglenn.org.

SPONSORED BY: <u>MAYOR DOWNING</u>

COUNCILMAN'S RESOLUTION   RESOLUTION NO.

No._____CR-154_____   _____
    Series of 2010   Series of 2010

A RESOLUTION ACCEPTING A GRANT AWARD FROM THE NORTHGLENN MUNICIPAL VALE BOARD

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF NORTHGLENN, COLORADO, THAT:

Section 1.   The City Council of the City of Northglenn hereby accepts a grant award from the Northglenn Municipal Victim Assistance and Law Enforcement (VALE) Board in the amount of four thousand nine hundred ninety-eight dollars ($4,998.00) for the grant application submitted by the Northglenn Police Department for the purchase of "Cellebrite" Universal Forensics Products.

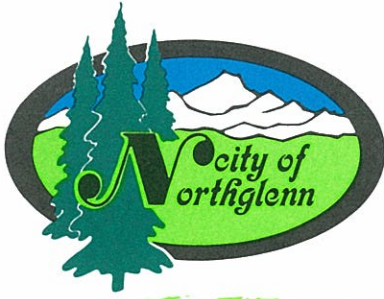DATED, at Northglenn, Colorado, this _____ day of _____, 2010.

_____
JOYCE DOWNING
Mayor

ATTEST:

_____
JOHANNA SMALL, CMC
City Clerk

APPROVED AS TO FORM:

_____
COREY Y. HOFFMANN
City Attorney

November 03, 2010

Russ VanHouten, Chief of Police
Northglenn Police Department
11701 Community Center Drive
Northglenn, CO   80233

Dear Russ,

The City of Northglenn V.A.L.E. Board (the "Board") met on October 10, 2010.   Please let this correspondence confirm the decision made by the Board as described below:

Grant Application 2010-3-17	**"Cellebrite" Universal**
Request: $5,498.00	**Forensics Products**
Funding: $4,998.00	**& Upgrade Kit for 2nd year**

The funding request was amended to reflect a $500.00 discount to be given by the supplier if this product was purchased by year end of 2010.   The Board also awarded an upgrade kit to pay for the 2nd year of usage.

A memorandum of agreement will be forthcoming. Funds will be available upon return receipt of the signed agreements and City Council approval.

Should you have any questions, please feel free to contact me.

Sincerely,

Tammy Sutton, Ex-Officio
Northglenn V.A.L.E. Board

cc: File

Chair
Honorable,
Joyce Downing

Vice Chair
Pat Marquez

Secretary
Leslie Carrico

Member
Brian Park

Member
Vacant

Alternate Member
Vacant

Ex-officio
Tammy Sutton

****

VICTIM ASSISTANCE & LAW ENFORCEMENT
SHORT FORM GRANT APPLICATION

City of Northglenn
Municipal VALE Board
Attn: Tammy Sutton, Court Supervisor
P.O. Box 330061
11701 Community Center Drive
Northglenn, CO 80233-8061
303-450-8703

Applicant Agency	Northglenn Police Department
Project Title	"Cellebrite" Universal Forensics Products
Examiner	
Project Director	Detective Dan Danielson
Phone	303 450-8990 Fax 303 450-8896
Address	11701 Community Center Drive, Northglenn, CO 80233

Total amount of VALE funds requested: $4,499.00 – Upgrade kit for 2nd year & thereafter $999.00

Grant duration Date of meeting with VALE Board to two years out

Is this a one-time request for training and/or equipment: Yes

Is this request for a new project? X Yes   __ No

Private non-profit Government Agency Police

1

SECTION A – PROBLEM SOLVING APPROACH

I am requesting the VALE Board grant to the Northglenn Police Department the Cellebrite U.F.E.D. system. (Universal Forensics Extraction Device). I retrieved the following information from a Cellebrite Sales Rep, and some of the technical applications are included below:

Cellebrite is a cell phone data extraction system. This particular model is a "stand alone" device, which does not need to be plugged into a computer to download data. It stores hundreds of phonebooks and content items onto an SD card or USB flash drive. Extractions can then be brought to the forensic lab for review and verification using the reporting / analysis tool.

It can be used in the field, as well as the forensic lab. It extracts vital data, such as cell phone pictures, videos, text messages, call logs, ESN and IMEI information from over 2,000 models of handsets sold worldwide.

Further, Cellebrite maintains: "Cellebrite is the only hand-held, cellular exploitation device worldwide that requires no PC or associated phone drivers. The UFED system will quickly extract phonebook, pictures, videos, SMS messages, calls histories, ESN/IMEI information, and deleted SMS/call histories off the SIM/USIM for rapid analysis. Cellebrite supports all the major technologies (TDMA, CDMA, GSM, IDEN) including , Smartphone operating systems and PDAs (Apple iPhone, Blackberry, Google Android, Microsoft Mobile, Palm and Symbian) for over 95% of all handset models worldwide." (Including PDA's and smartphone devices).

It will extract phone data when the SIM is "PIN locked." In cases with handsets were only the ICCID of the SIM card is needed for authentication, the user SIM PIN lock can be bypassed using the cloned SIM ID Card.

The following are examples of what can be downloaded:

Phonebook, Text messages, Call History (Received, Dialed, Missed), Deleted Text Messages off SIM/USIM, Audio Recordings, Video Pictures and Images, Ringtones, Phone Details (IMEI / ESN, phone number), Complete File System Memory Dump on selected handsets, SIM ID Cloning, Apple iPhone and Google Android content types supported: Phonebook, SMS, Call logs, Pictures, and more.

The data is extracted in a strictly 'read only' process, without modifying data on the source phone. The extracted data is verified using industry standard MD5 and SHA256 hash algorithm to ensure data integrity for the courtroom.
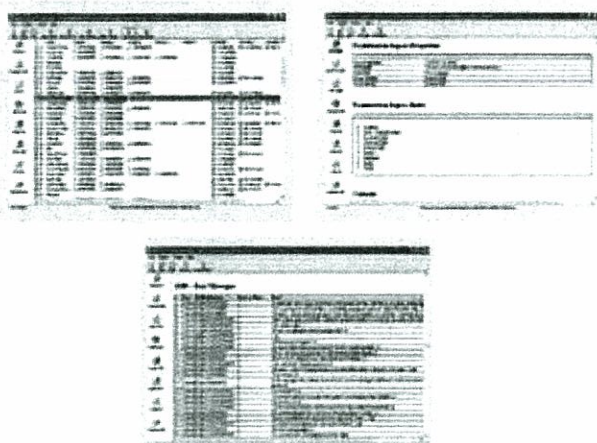
The Cellebrite device is popular with law enforcement agencies, and is utilized frequently. Without the Cellebrite device, officers would have to snap photographs of the data, and transcribe large amounts of information, including text content (which I have personally done) and takes a large amount of time. Photographs are not always 100% visible on cell phone screens, and transcription is subject to court room scrutiny and error due to the large amount of data and "text message language." This device downloads the data to a CD, which can be booked in as evidence and duplicated for court. It prints a professional appearing document, which includes address books, text messages and much more. (Indicated above).

I have used Arvada Police Department's Cellebrite UFED system on several occasions, and have been impressed. It will either download all, or none of each category of item. (Therefore, you don't have to worry about getting "some" of the data and not "all," and having to answer for it in court). Yes, it is not 100% effective. Older model cell phones, for example will not download some categories of content, such as an address book or text messages. However, it will download other content, which you will not need to worry about when manually going through the phone.

Cell phone examinations have been increasing with technology, and it now seems every person, including kids have a cell phone. I have personally come across several crimes where suspects use or leave their phones. Good examples are domestic violence, stalking, harassment and protection order violations. Again, I personally have investigated several cases involving these crimes before, and after using Cellebrite. Victims of these types of crimes have benefited from Cellebrite, mainly because of the professional documents it produces, and the extraction of the actual data is used to help convict the offenders.

When searching a victim or an offender's phone, you will often find incriminating information such as an outgoing call from the suspect's "locked" phone to the victim of a domestic violence / protection order violation case which is material used to arrest the offender.

I have personally used Cellebrite in stalking cases as well, and used the data to help charge an offender that recorded his victim's contact information in his address book as "*67"-303-xxx-xxxx. That helped prove that the suspect called my victim continuously from a blocked line, which does not show up when subpoenaing the victim's cell phone records. Cellebrite is obviously faster than subpoenaing cell phone records, which takes over a month to get back at times. Cellebrite takes about two minutes. The device comes with multiple charging and connecting cords, which match up with just about every cell phone known to man. I have also located cell phones in stolen automobiles, and on scenes of crimes. Cellebrite would allow officers to download the data on the phone, so the user can be identified. It's obvious how this device is an advocate for victims of crimes. As technology increases in this world, it is important to keep up with it. Law enforcement and victims of crimes won't win if criminals are allowed to benefit from technology, as police departments remain stuck in the past.

The action plan on using this device is simple. All officers, detectives and our criminalist will have access to this device, which requires little training to operate. It beats taking a victim's phone away, and keeping it as evidence taking up space in our facility while waiting for a detective to drive the phone to Arvada or wait for a subpoena.

Cellebrite continually updates the software. Annually, as more and more cell phones are released to the public, Cellebrite provides the connections and software for fast downloads. The price of Cellebrite and the annual upgrades are indicated below.

Thank you for taking the time in considering this request.

Respectfully,

Detective Dan L. Danielson
Northglenn Police Department
11701 Community Center Drive
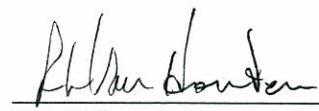Northglenn, CO 80233
303-450-8980

SECTION B – BUDGET SUMMARY/FINANCIAL INFORMATION

Category/Item	Quantity	Estimated Cost (please round to the highest whole dollar)
Cellebrite UFED System	1	$4,499.00
Annual upgrade (2nd year and thereafter)	1	$999.00
		Total $5,498.00

1. Will the amount requested for this project provide full funding? __Yes__
   If no, please identify other funding sources and amounts requested within the last year. Include pending grant amounts. __N/A__

[Applicant Signature] #306
Applicant Signature

[CEO Signature]
CEO Signature

Beth Caimosino, Commander
Co-Applicant Signature

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Universal Forensic Archives

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UFED SYSTEM

UFED Physical Pro

UFED Ruggedized

UFED Standard Kit

$ *Get a* **Price Quote**

CelleBrite for the community
The Innocent Justice Foundation is a non-profit organization that solicits local community funding on behalf of law enforcement agencies whose hardware, software, training, or other needs for child pornography investigations are not covered by their budgets.
www.innocentjustice.org

UFED STANDARD KIT

CelleBrite UFED System - Universal Forensic Extraction Device for Cell phones, Smartphones and PDA's

Overview

The CelleBrite UFED Forensic System is the ultimate standalone device which can be used in the field as well as the forensic lab. The CelleBrite UFED can extract vital data such as phonebook, pictures, videos, text messages, call logs, ESN and IMEI information from 2,000 models of handsets sold worldwide. The UFED supports CDMA, GSM, IDEN, and TDMA technologies, and it is compatible with any wireless carrier.

The CelleBrite UFED system supports 95% of all cellular phones on the market today, including smartphones and PDA devices (Palm OS, Microsoft, Blackberry, Symbian, iPhone, and Google Android). Extraction requires no PC for field use, and can easily store hundreds of phonebooks and content items onto an SD card or USB flash drive. The CelleBrite UFED supports all known cellular device interfaces, including serial, USB, infrared, and bluetooth. Extractions can then be brought back to the forensic lab for review and verification using the reporting/analysis tool. CelleBrite works exclusively with most major carriers worldwide including Verizon Wireless, AT&T, Sprint/Nextel, T-Mobile, Orange France and Telstra Australia, as well as 80 others. This ensures that future devices are supported prior to retail launch.

Secure and Thorough Content
The UFED allows you to extract a wide variety of data types from the handset:

- Phonebook
- Text messages
- Call History (Received, Dialed, Missed)
- Deleted Text Messages off SIM/USIM
- Audio Recordings
- Video
- Pictures and Images
- Ringtones
- Phone Details (IMEI / ESN, phone number)

Important Note:
The data is extracted in a strictly 'read only' process, without modifying data on the source phone. The extracted data is verified using industry standard MD5 and SHA256 hash algorithm to ensure data integrity for the courtroom.

Apple iPhone and Google Android content types supported:
Phonebook, SMS, Call logs, Pictures, and more information

Extraction Reports

The CelleBrite UFED system comes complete with a user friendly PC reporting and analysis software application. This software can save, print, export (to .xls or Outlook formats) and analyze complete records of all supported content types of cellular phone data, on a per-handset basis. The UFED report manager includes a keyword search function to find text messages and phonebook for specific information. It can also organize text messages in chronological order to track SMS conversations. Concise, easy to analyze report logs can be generated in HTML, .XLS, .CSV, .XML formats, providing an organized print-out for use as a reference in the courtroom. These reports will also supply important fields such as time and date of extraction, agent or officer who performed the extraction, department and case number. Data is verified via industry standard MD5 and SHA256 hash algorithm to ensure data integrity.

Proven, Time-Tested User Interface

The CelleBrite UFED system is extremely user friendly, with an intuitive interface that has been proven and field tested for over 8 years, with hundreds of thousands of users.

Mobile Forensic | Mobile Sync | Phone Sync | Contacts Transfer | Forensic Software | Mobile data transfer | Phone book transfer | Transfer mobile phone | Transfer phonebook | CelleBrite Supports iPhone |

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UFED SYSTEM

UFED Physical Pro

UFED Ruggedized

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The Innocent Justice Foundation is a non-profit organization that solicits local community funding on behalf of law enforcement agencies whose hardware, software, training, or other needs for child pornography investigations are not covered by their budgets.
www.innocentjustice.org

UFED RUGGEDIZED

HARD EVIDENCE FROM MOBILE PHONES... MADE EASY

Universal Forensic Extraction Device:
Portable, handheld, field-proven forensic system for the quick extraction and analysis of cell phones, smartphones and PDA devices

Overview

The CelleBrite UFED Ruggedized System is a field-proven, standalone device used by many different Law Enforcement agencies to **extract actionable data** from cell phones and PDA devices in the field, in real-time. Supported data types include phonebook, pictures, videos, text messages, call logs, ESN and IMEI information from 2,000 models of handsets sold worldwide. The system supports all network technologies (CDMA, GSM, iDEN, TDMA) used by every major wireless carrier. The CelleBrite UFED System is truly universal, supporting 95% of all cellular phones on the market today, including smartphone operating systems and PDAs (Apple iPhone, Blackberry, Google Android, Microsoft Mobile, Palm and Symbian). **CelleBrite works exclusively with most major carriers worldwide** including Verizon Wireless, AT&T, Sprint/Nextel, T-Mobile, Orange France and Telstra Australia. This ensures that most devices are supported before they are launched to the market. CelleBrite offers the most complete library of tested and verified handsets available today, more than any other forensic solution in the market.
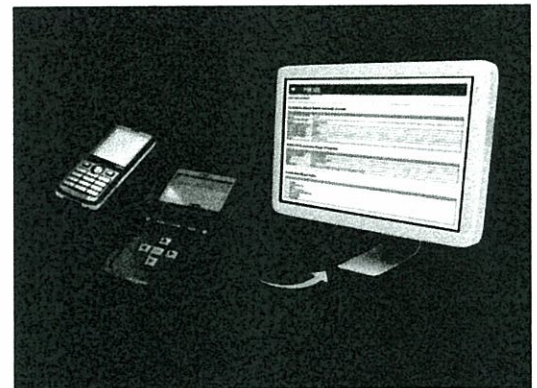
UFED Ruggedized in Action

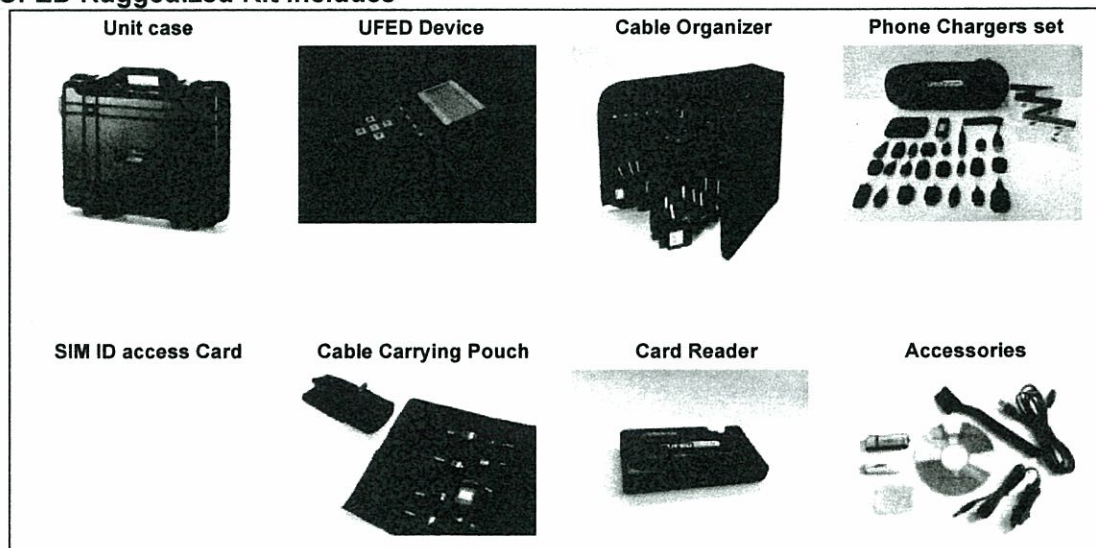Portable, fast, and easy to operate, the UFED Ruggedized System is self-powered by an **internal rechargeable battery, facilitating truly untethered operation in even the most remote locations.** The CelleBrite UFED Ruggedized kit is a complete end-to-end solution contained in a hard case for safe transport which includes: a UFED Ruggedized device, a universal rapid phone charger, 75 data cables, USB flash drive and other mission critical accessories.
Data is extracted onto a USB flash drive or SD card which is organized into clear and concise reports. The data can easily be exported to the leading data mining and link analysis tools, providing the fastest, most effective data acquisition and analysis system available.
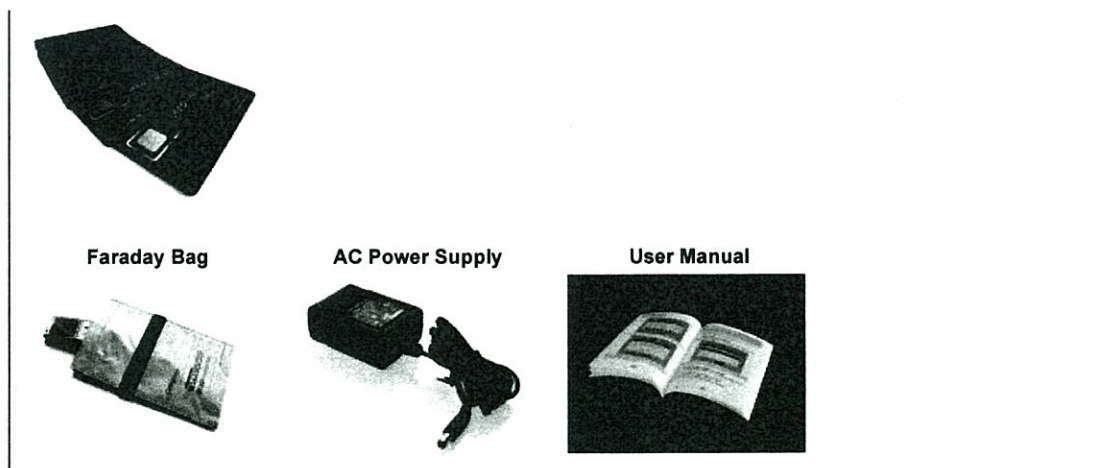
UFED Ruggedized Functionality Highlights

- **Battery operated handheld device requires no computer for extraction** – The UFED Ruggedized device is completely self-contained and self-powered via internal rechargeable battery for field portability. The battery provides approximately 4 hours of continuous usage between charging and 8 hours of stand-by with an integrated LED battery state-of-charge indicator. Recharging is made easy using the standard 15V AC power source or the 12V DC rapid charging in-vehicle car adaptor

- **Protective UFED rubberized casing** – The UFED is protected by rubberized, thermoplastic housing designed to provide additional shock protection and improve grip in harsh environments, and specially-designed hinged plastic covers to protect exposed data ports from dirt, sand and other possible contaminants

- **Superior handset support** - Over 2,000 handset models supported, with monthly software updates for newly released devices prior to carrier launch. The system includes over 75 data cables for connecting 95% of all handset models worldwide. CelleBrite has exclusive carrier agreements and works directly with cellular phone manufacturers to receive pre-production handsets prior to retail launch

- **Complete extraction of mobile phone data** - Phonebook, SMS Messages, pictures, videos, call logs (dialed, received, missed), ESN/IMEI, audio files, and deleted SMS/Call History off the SIM/USIM

- **SIM ID Cloning via built in SIM reader** - Extract phone data when the SIM Card is PIN locked or when the SIM is not available. Network connection is neutralized while handset is extracted, meanwhile making the phone is invisible to the network

- **Memory Dump** - Complete dump of phone file system for select handsets, providing the ability to extract otherwise inaccessible files, and user passwords

- **Unmatched Smartphone Support**- Supports all major smartphone operating systems including Apple iPhone, Blackberry, Microsoft, Palm, Google Android, and Symbian

- **Hard case for portable transport** - All components included in a protective hard case with carrying strap designed to stand up to the harshest military field conditions

- **Universal Phone Charger** - For rapid charging of handsets/PDAs in the field which are found with no battery life remaining. Includes approximately 45 charging tips with phone booster for the majority of handsets available worldwide

- **Foreign Handset Support**- Supports the Unicode industry standard, enabling extractions from devices using European, Asian, and Middle-Eastern alphabet systems

- **Multi-language User Interface**- Supports 8 languages in menus including English, Spanish, French, Portuguese, Russian, Slovak, Greek and German

UFED Ruggedized Kit Includes

Unit case	UFED Device	Cable Organizer	Phone Chargers set

SIM ID access Card	Cable Carrying Pouch	Card Reader	Accessories

Faraday Bag   **AC Power Supply**   **User Manual**

Mobile Forensic | Mobile Sync | Phone Sync | Contacts Transfer | Forensic Software | Mobile data transfer | Phone book transfer | Transfer mobile phone | Transfer phonebook | CelleBrite Supports iPhone |

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