

Investigators' Guide

Law Enforcement Investigative Use of Cellebrite's UME-36Pro

April 2007

*These are suggested guidelines for use of Cellebrite's UME-36Pro by Law Enforcement investigators who conduct cellular telephone investigations. **Note:** Any agency adopting these guidelines should conduct the appropriate validation of the procedures before applying them to a current investigation.*

Guidelines

1. Upon opening the Cellebrite UME-36Pro bag, you will find two layers of cables, each numbered with a white label and possibly a silver label bearing the cable number.
2. The bottom layer of the bag contains the main box, its power supply and USB thumb drive.
3. Power up the UME-36Pro by inserting the power unit into the back of the unit and into an electrical outlet. The UME-36Pro will advise you to wait while it activates.
4. From the Main Menu, use the down arrow to highlight **Backup**, and then click the **OK** button. (This will list the phones the UME-36Pro will work with.)
5. Using the down arrow, navigate to the **Make** of the phone that you wish to acquire information from (for example, LG GSM or possibly CDMA), and click **OK**. A list of phone models will appear. Scroll down until the desired model is located, such as LG L1150, and click **Next**.
 - If it is a GSM phone, click on **SIM** prior to clicking the **Next** button; this may permit possible capture of data from the SIM card.
6. The **Select Backup Target** screen will appear, permitting information to be downloaded to a PC, USB thumb drive or disk drive, or to an SD card.
 - At this point, insert a USB thumb drive on the right side of the UME-36Pro into the USB slot provided below the sign that reads **Target**. Press the down arrow on the display to highlight **USB Disk Drive** and click **OK**. (Note: If you are using a USB thumb drive not provided with the UME-36Pro, it may require formatting prior to use.) Verify that the USB thumb drive used with the UME-36Pro is wiped of data before each use. (This is to ensure that there is nothing on the USB thumb drive prior to the acquisition of new evidence to the drive.)
7. The UME-36Pro will automatically advise you of the cable number that is required for the process. Select the corresponding cable number as directed on the UME-36Pro screen.

8. Power on the phone and connect the cable to the phone and UME-36Pro. (Note: the cable end that fits the phone will only fit one way; do not force it to fit or damage may be done to either the phone or the cable.) Depending on the cable connection type, the cable will fit into one of the ports on the left side of the UME-36Pro.
9. Once the phone is connected to the UME-36Pro, click on the right arrow **START** button. You will see a box indicating that the UME-36Pro is connecting to the phone. If the connection is successful, it will indicate that the **Transfer Completed Successfully**.
10. Clicking the right arrow key permits the box to re-set itself for the next operation
11. Remove the USB thumb drive.
12. Insert the USB thumb drive into a computer designated for processing evidence and into which the UME Content Manager program has been pre-installed
13. Locate the thumb drive using Windows Explorer. There should be a file on it called **Backup.PBB** and possibly other folders that were captured. Copy these files to a folder on the designated processing machine and rename them with a unique identifier associated with the case (such as the case number), but leave the extensions the same. Double clicking on the file will open the preinstalled UME Content Manager and open the file.

Investigative Technical Notes

- a. While the UME-36Pro indicates that it can capture several pieces of evidence from a particular phone, it often only captures the Phonebook. It will still require other software or a manual walkthrough of the phone to establish if there are other pertinent data on the phone.
- b. Other pieces of cellular telephone investigative software may be required to capture further data.
- c. Prior to using the UME-36Pro in the field as an investigative tool, it is recommended that new users conduct tests of the unit and the capture process, using a personal phone. With prior knowledge of the data on a control phone, users will establish the limitations of this device and become familiar with the process required. Users should compare the data captured from the UME-36Pro with the known data from the test phone.

This *Investigators' Guide* was prepared by the Training Services staff of SEARCH, The National Consortium for Justice Information and Statistics, under funding from the Bureau of Justice Assistance, Office of Justice Programs, U.S. Department of Justice.

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