Technical Procedure for Cell Phone Data Extraction
Digital/Latent Evidence Section
Issued by Digital/Latent Forensic Scientist Manager

Version 3
Effective Date: 10/31/2013

Technical Procedure for Cellular Telephone Data Extraction

1.0 **Purpose** – The purpose of this procedure is to extract data from cellular telephones or SIM cards compatible with Cellebrite or XRY.

2.0 **Scope -** This procedure describes the steps to be taken by personnel of the State Crime Laboratory in extracting data from various types of cellular telephones which may be submitted.

3.0 **Definitions**

- **Cellebrite** – A universal forensic extraction device for cellular telephones.
- **XRY** – Forensic extraction software for cellular telephones.
- **SAN** – Networked array of hard drives used as a digital evidence repository.
- **Case Folder** – A folder designated by case number and located on the SAN, for use in a specific investigation.

4.0 **Equipment, Materials and Reagents**

- Cellebrite unit with catalog of cellular telephone adapter cables
- XRY software package with catalog of cellular telephone adapter cables
- Thumb drive
- Online SAN drive

5.0 **Procedure**

5.1 Wipe the thumb drive with an approved data wiping utility prior to data extraction.

5.2 Place the telephone into airplane mode (if supported).

5.3 **Instructions for Cellebrite**

5.3.1 Follow the instructions in Chapter 3 (Cellular Telephones) or Chapter 5 (SIM Cards) of the CelleBrite UFED User Manual for data extraction.

5.4 **Instructions for XRY**

5.4.1 Follow the instructions in Getting Started: Starting a New Extraction of the XRY User Manual for data extraction.

5.5 Once the data is extracted from the device to the thumb drive, transfer the data from the thumb drive to the case folder located on the SAN storage drive.

5.6 **Standards and Controls** – N/A

5.7 **Calibrations -** N/A

5.8 **Maintenance** – N/A

5.9 **Sampling** – N/A

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5.10 Calculations – N/A

5.11 Uncertainty of Measurement – N/A

6.0 Limitations

6.1 A cellular telephone should be powered off when submitted for analysis. During processing it is necessary to power on the telephone; the device should not be allowed to connect to its cellular network. Allowing the telephone to receive a signal from the cellular network can result in a change in the data contained on the internal memory of the telephone.

7.0 Safety – N/A

8.0 References

- CelleBrite UFED User Manual
- XRY User Manual

9.0 Records – N/A

10.0 Attachments – N/A

Revision History		
Effective Date	Version Number	Reason
09/17/2012	1	Original Document
05/03/2013	2	1.0- Added XRY to the purpose
		3.0- Added XRY to the definitions
		4.0- Added XRY to the equipment list
		5.3- Modified to say 'Instructions for Cellebrite'
		5.4- Created to explain extracting data with the XRY
10/31/2013	3	Added issuing authority to header

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