



Multimedia Section

Vehicle Infotainment Analysis

Digital and Multimedia Evidence Division



1. VEHICLE INFOTAINMENT ANALYSIS

1.1. Purpose

1.1.1. The purpose of this procedure is to establish guidelines for the analysis of different infotainment systems in vehicles.

1.2. Scope

1.2.1. This procedure applies to Multimedia Section analysts who are authorized to **use the Berla iVe software.**

1.3. Limitations

- 1.3.1. This procedure will only apply to vehicle infotainment systems that are supported by the software manufacturer. New systems may be added by the manufacturer.
- 1.3.2. Functionality of the infotainment system will affect what data is recovered. For example, if the vehicle does not have a navigation system then GPS coordinates may not be recovered.
- 1.3.3. Processing the vehicle for physical evidence (i.e. latent prints) could cause loss of pertinent data due to additional power cycles. Therefore, the vehicle should be properly shut down prior to processing for physical evidence.
- 1.3.4. Careful steps will be taken to remove the infotainment system from the vehicle but damage may still occur in removal of the components. If damage is observed, it will be documented in the case record.

1.4. Equipment

- 1.4.1. Berla iVe Kit – this will include tools, metered power supply, acquisition hardware, USB acquisition cables, software license, etc.
- 1.4.2. Vehicle supported by Berla iVe.
- 1.4.3. Laptop or workstation to run software.
- 1.4.4. Personal Protective Equipment (PPE) **(if needed)**

1.5. Request for Analysis

- 1.5.1. A request for infotainment analysis will be made through HFSC's Vehicle Examination Building (VEB) using a Vehicle Processing Request Form.
- 1.5.2. Once a request is made, search authority must be provided by the requesting agency prior to analysis.
- 1.5.3. Prior to responding to the VEB for analysis, the analyst must verify that all prior requested processing (i.e. latent prints, DNA) has been completed by CSU.

1.6. Procedure



- 1.6.1. Identify the supported vehicle by positively identifying the system installed in the vehicle and determine what data can be obtained, how/if that data relates to the request, and what steps are needed to acquire the data.
 - 1.6.1.1. Use the Berla Vehicle Lookup to determine if the vehicle is supported. This can be done using the Berla iVe mobile app.
 - 1.6.1.1.1. If the vehicle is not supported, the requesting officer will be notified, and the request will be closed.
 - 1.6.1.2. Ensure that the system in the center console matches to photo shown in the Berla **mobile app**.
 - 1.6.1.3. Ensure the data able to be acquired corresponds with the officer's request. If the available data does not correspond with the request, the requesting officer will be notified.
- 1.6.2. Acquisitions may require systems to be removed from the vehicle and disassembled or be performed in place in the vehicle. PPE should be worn as needed.
 - 1.6.2.1. Remove any vehicle key fobs out of range of the vehicle. A Faraday bag can also be used.
 - 1.6.2.2. Photograph vehicle and component's identifying information (i.e. VIN, SN).
 - 1.6.2.3. Based on the acquisition method, prepare the system to be acquired. Removal of the system may be needed. Prepare the required tools, iVe software, and hardware.
 - 1.6.2.4. Test the connection of the various hardware components using the iVe software.
 - 1.6.2.5. If a connection is established, acquire the system data.
- 1.6.3. Analyze the data
 - 1.6.3.1. Review the data acquired and ensure it corresponds with what types of data are available for that system.
 - 1.6.3.2. Examine the acquired data using analytical software (Berla iVe, Blacklight, XRY, etc.) and tag/bookmark relevant information (**if needed**).
 - 1.6.3.3. Generate available software reports of your findings.

1.7. Results and Reporting

- 1.7.1. **If the module required removal from the vehicle, the module will be created as an item in LIMS upon return to the laboratory. No item number will be created if acquisition took place at the VEB.**
- 1.7.2. Any software generated reports, photographs, case notes, exported logs, etc. will be stored on digital media (i.e., USB, external hard drive) and will be created as a separate item in LIMS.
- 1.7.3. Case notes, reports, and reviews will be completed according to the Administrative/Quality SOP and Reporting Guidelines SOP.