



SURFACE VEHICLE INFORMATION REPORT

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Digital Forensic Evidence Sources Related to Investigation and Analysis of Damage and Injury Causing Incidents

RATIONALE

This SAE Information Report is intended to provide a reference and background information detailing potential sources of digital forensic evidence that may be used by forensic analysts to investigate, reconstruct, and analyze damage and injury causing incidents.

1. SCOPE

This SAE Information Report attempts to provide a list of potential digital data recording devices that may be interrogated for forensic purposes. This list may not be exhaustive, but it lists sources of data that may be useful in the investigation of incidents such as motor vehicle collisions. This list is not intended to give instruction on how to access and preserve the data. This list is only to inform investigators that these known data sources may contain important information and should, if applicable, be searched for and queried. It is recognized that as the state of technology advances there may be additional data sources that become available.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 Scientific Working Group on Digital Evidence Publications

SWGDE Best Practice for Data Acquisition from Digital Video Recorders, Version: 1.0 (April 25, 2018)

SWGDE Best Practice for Forensic Video Analysis, Version: 1.0 (November 20, 2018)

SWGDE Best Practice for Mobile Device Evidence Collection & Preservation, Handling and Acquisition, Version: 1.1 (July 16, 2019)

SWGDE Best Practice for Portable GPS Device Examinations, Version: 1.2 (November 20, 2018)

3. DEFINITIONS

3.1 VOLATILE DATA SOURCE

Volatile data sources are sources where the data is not permanently fixed in the recording device and may be overwritten if subsequent events are recorded or if improper methods are used to image the data.

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Documents

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3.2 NONVOLATILE DATA SOURCE

Nonvolatile data sources are sources that are fixed in the recording device and cannot be overwritten or deleted by subsequent recordable events or improper data imaging methods.

3.3 ACRONYMS

3.3.1 Airbag Control Module (ACM)

3.3.2 Powertrain Control Module (PCM)

3.3.3 Pedestrian Protection Module (PPM)

3.3.4 Rollover Sensor (ROS)

3.3.5 Event Data Recorder (EDR)

3.3.6 Advanced Driver Assistance Systems (ADAS)