SWGDE Requirements for Report Writing in Digital and Multimedia Forensics

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1. **Purpose**

The purpose of this document is to define the minimum required elements of an examination report used to document a forensic examination of digital and multimedia evidence.

2. **Scope**

This document is intended for any persons preparing reports to document the processes and/or results of a forensic examination of digital and multimedia evidence. This document may not be all inclusive and there may be additional reporting (e.g., expert witness disclosure requirements), which is not considered within the scope of this document. This document does not address writing examination notes on which the report is based.¹

3. **Limitations**

The required elements for an examination report discussed below are not necessarily all inclusive, but are the minimum expected elements of an examination report. This information does not take into account organizational policies, nor requirements mandated by accreditation bodies.

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¹ AR3125 7.5.1.3 requires technical records to be sufficiently detailed such that another reviewer possessing the relevant knowledge, skills, and abilities could evaluate what was done and interpret the data.
4. **General Discussion**

Digital and multimedia evidence, as well as the tools, techniques, and methodologies used in an examination, are subject to challenge in a court of law or other formal proceedings. Proper documentation is essential in providing individuals the ability to reproduce the forensic process and the results.

Reporting is the process of preparing a summary of steps taken during the examination of digital media. A thorough examination report is written using documentation collected by the examiner, including photographs, drawings, case-notes, tool-generated content, etc. Many forensic tools come with built-in reporting functionality that is specific to that tool’s actions and results, but does not typically document the full scope of the examination. Tool reports may be considered supporting documentation to the examination report or referenced as an appendix.

It is the responsibility of the examiner to produce the examination report, which should contain all the following:

- Report title (e.g., examination report, amended report)
- Case identifier and requester
- Clearly stated purpose of the examination
- Description of the processes and results of tests and examinations with supporting data, as needed (e.g., automated tool reports, screen captures and other exhibits)
- Explanation of conclusions/opinions drawn from the data, if appropriate
- Disposition of evidence
- Report authorization

5. **Minimum Requirements**

The following defines the elements to include in an examination report but does not define any specific format. Formatting and layout options are up to the examiner, or they may be defined by organizational policies or jurisdictional court rules.

5.1 **General information**

5.1.1 A title similar to “Report of Examination,” to provide an immediate and accurate identification of the information being provided

5.1.2 Name and address of the examining organization/laboratory

5.1.3 Case identifier and page accountability (page number and total number of pages)

5.1.4 Date of report (date of final signed version)

5.1.5 Acronyms and abbreviations defined at first use, if not in the common vernacular of the general public
5.2 Request

5.2.1 Date of request
5.2.2 Requestor name and organization
5.2.3 Details, purpose, and scope of the request
5.2.4 Authority for request (e.g., consent, search warrant, contract, etc.)

5.3 Submitted or collected items

5.3.1 Date items submitted or collected
5.3.2 Method of delivery/collection
5.3.3 Submitter information (e.g., name and organization), if applicable
5.3.4 Information to uniquely identify each item submitted or collected for examination, such as make, model, serial number, marking, hash value or some other means to adequately identify the item (whether examined or not), typically provided in a listed format

5.4 Results, details of examination, and supporting data

The examination report must describe the results of the request in terms that are clear and unambiguous such that a layperson can understand. The examination report must adequately describe the overview of the processes performed. The results of all processes must also include descriptions of data that were recovered, extracted, and provided. If applicable, deviations from SOPs must be disclosed.

Many organizations separate the results from the details and supporting data. Based on organizational policy or legal requirements, the report and case notes may be combined.

Any examination results or analysis provided by a subcontractor must be identified.

5.5 Opinions and Conclusions, if included

If opinions and/or conclusions are included in the examination report, then the report should document the opinion and its basis.

5.6 Disposition

The examination report must include a description of the disposition of original and derivative works (e.g., destroyed, returned, or retained).

5.7 Report authorization

The examination report must include the name of the report authorizer and signature (e.g., handwritten, digital, or electronic signature).
6. Amendments to Examination Reports

After the release of a final report, if an examination report requires amendment, a new report must be released with edits identified and explained. The amended report must reference the original report.

7. References


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#### History

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