



Priority Action Report

Digital Evidence

Digital / Multimedia

James Darnell

2/1/2016





Subcommittee Leadership

Position	Name	Organization	Term	Email
Chair	James Darnell	U.S. Secret Service	2	james.darnell@usss.dhs.gov
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Executive Secretary	Andrew Neal	TransPerfect Legal Solutions	2	aneal@transperfect.com

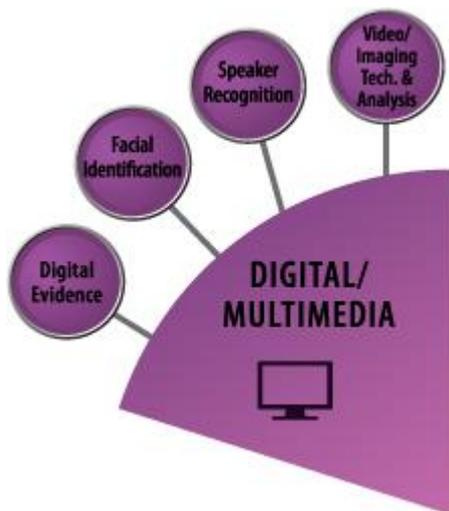


Subcommittee Members



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15	Daren Ford	Weld County Sheriff's Office	2	dford@co.weld.co.us
16	Paul Reedy	Washington D.C. Consolidated Lab	3	paul.reedy@dc.gov
17	Steve Webster	Hotel Corporation	2	fwatson@hotelcorporation.com

Discipline Description



The Digital Evidence Subcommittee focuses on standards and guidelines related to information of probative value that is stored or transmitted in binary form.

Summary of Standards/Guidelines Priority Actions

Priority	Working Title of Document
1	Minimum Requirements for Quality Assurance in the Processing of Digital and Multimedia Evidence
2	ASTM E2678-09 Standard Guide for Education and Training in Computer Forensics
3	Forensic Audio Examination, Retrieval, Workflow; new standards derived from SWGDE Best Practices for Forensics Audio (3 new documents)
4	Best Practices for Preservation, Isolation, Acquisition of Mobile and other Embedded Systems; new guidelines derived from NIST 800-101 (3 new documents)





Standards/Guidelines Development Priority 1 Document

Document Title: Minimum Requirements for Quality Assurance in the Processing of Digital and Multimedia Evidence

Scope: This document proposes minimum requirements regarding training/education, examiner certification, examination requirements and lab requirements

Objective/rationale: Describe the minimum requirements necessary to achieve quality assurance in regard to completing digital evidence forensic examinations

Issues/Concerns: The minimum bar may be too high for some to achieve

Task Group Name: Training/Certification

Task Group Chair Name: Andrew Neal

Task Group Chair Contact Information:

aneal@transperfect.com

Date of Last Task Group Meeting: 1/29/2016





Standards/Guidelines Development Priority 1 Document

Key Components of Standard:

- Employment Qualifications
- DME Training / Certification
- Apprenticeship
- Ongoing Training
- Competency and Proficiency Assessments
- Laboratory Standards
- Examination Procedures
- Review
- Reporting





Task Group/Subcommittee Action Plan

Planned Actions	OSAC Process Stage (e.g., SDO 100)	Assignee	Estimated Completion Date
Complete AAFS template and move through SDO Process	SDO 100	Andrew Neal	8/1/2016





Standards/Guidelines Development Priority 2 Document

Document Title: ASTM E2678-09 Standard Guide for Education and Training in Computer Forensics

Scope: This standard is specific to the computer forensics sub discipline of digital and multimedia evidence.

Objective/rationale: Improve and advance computer forensics through the development of model curricula consistent with other forensics science programs

Issues/Concerns: Work with organizations to adopt the model curricula

Task Group Name: Education

Task Group Chair Name: Marcus Rogers

Task Group Chair Contact Information:

rogersmk@purdue.edu

Date of Last Task Group Meeting: 1/29/2016





Standards/Guidelines Development Priority 2 Document

Key Components of Standard:

- Qualifications
- Core Competencies
- Model curriculum
- Implementation including assessment, faculty, and facilities





Task Group/Subcommittee Action Plan

Planned Actions	OSAC Process Stage (e.g., SDO 100)	Assignee	Estimated Completion Date
Complete registry approval process for existing standard	RA-100	Mark Rogers	4/1/2016





Standards/Guidelines Development Priority 3 Documents

Document Title: Forensic Audio Examination, Retrieval, Workflow, three new standards derived from SWGDE Best Practices for Forensics Audio.

Scope: This document will comment on only those matters that may effect the audio forensic examination process.

Objective/rationale: Provide forensic audio practitioners recommendations for the handling and examination of forensic audio evidence.

Issues/Concerns: None

Task Group Name: Audio

Task Group Chair Name: David Hallimore

Task Group Chair Contact Information:

forensicaudio@gmail.com

Date of Last Task Group Meeting: 1/29/2016



Standards/Guidelines Development Priority 3 Documents

Key Components of Standard:

- Audio Laboratory Considerations
- Evidence Retrieval
- Receiving Evidence
- Examination
- Administrative and Technical Review



Task Group/Subcommittee Action Plan

Planned Actions	OSAC Process Stage (e.g., SDO 100)	Assignee	Estimated Completion Date
Original document broken into three sections; complete AAFS template for each and submit	SD-100	David Hallimore	8/1/2016





Standards/Guidelines Development Priority 4 Document

Document Title: Best Practices for Preservation, Isolation, Acquisition of Mobile and other Embedded Systems, three new guidelines derived from NIST 800-101

Scope: Organizations should find these documents helpful in establishing their policies and procedures.

Objective/rationale: Help organizations evolve appropriate policies and procedures for dealing with mobile devices and to prepare forensic specialists to conduct forensically sound examinations involving mobile devices.

Issues/Concerns: None

Task Group Name: Mobile Devices

Task Group Chair Name: Steve Watson

**Task Group Chair Contact Information:
forensics@stevewatson.net**

Date of Last Task Group Meeting: 1/29/2016



Standards/Guidelines Development Priority 4 Document

Key Components of Standard:

- Forensic tools and classification system
- Preservation
- Acquisition
- Examination and analysis
- Reporting



Task Group/Subcommittee Action Plan

Planned Actions	OSAC Process Stage (e.g., SDO 100)	Assignee	Estimated Completion Date
Original document broken into three sections; complete AAFS template for each and submit	SD-100	Steve Watson	8/1/2016



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1	Minimum Requirements for Quality Assurance in the Processing of Digital and Multimedia Evidence
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Standards/Guidelines Reviewed For Technical Merit

Title	Developing Organization	Status*	OSAC Process Stage (e.g., RA 100)
Minimum Requirements for Quality Assurance in the Processing of Digital and Multimedia Evidence	AAFS	Complete AAFS template and move through SDO Process	SD-100
ASTM E2678-09 Standard Guide for Education and Training in Computer Forensics	ASTM	Complete registry approval process for existing standard	RA-100





Standards/Guidelines Reviewed For Technical Merit

Title	Developing Organization	Status*	OSAC Process Stage (e.g., RA 100)
Forensic Audio Examination, Retrieval, Workflow; new standards derived from SWGDE Best Practices for Forensics Audio (3 new documents)	AAFS	Original document broken into three sections; complete AAFS template for each and submit	SD-100





Standards/Guidelines Reviewed For Technical Merit

Title	Developing Organization	Status*	OSAC Process Stage (e.g., RA 100)
Best Practices for Preservation, Isolation, Acquisition of Mobile and other Embedded Systems; new guidelines derived from NIST 800-101 (3 new documents)	AAFS	Original document broken into three sections; complete AAFS template for each and submit	SD-100



Research Gaps Identified

- The digital evidence community uses file hashing as a means to determine if files, be they image or user, are a match. A research project was requested that examines the underlying scientific principles of using the file hash algorithms in such a manner



Additional Items of Interest

- Short Term
 - SDO and tech merit forms completed
 - TGs working into appropriate SDO templates
- Long Term
 - Lab accreditation
 - Mandatory; Minimum requirements; Possibly addressed in a DE specific supplemental
 - Method / process validation
 - Effects of long term exposure of examiners to questionable material



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