

DECLARATION OF DOMENIC RIZZOLO

1. I, Domenic Rizzolo, submit this Declaration on behalf of the Patent Owner, Provisur Technologies, Inc. (“Provisur”). I am a citizen of the United States, over 18 years of age, and competent to testify to the matters contained in this Declaration. If called as a witness, I could and would competently testify to these same facts.

BACKGROUND & QUALIFICATIONS

2. I am currently employed as a Manager in Aon’s Stroz Friedberg Digital Forensic and Incident Response team (“Stroz Friedberg”). I have been employed at Stroz Friedberg since September 2015. My CV attached as Exhibit A.

3. At Stroz Friedberg, I frequently conduct forensic examinations on a variety of computers and other digital media, advising in civil litigation and incident response cases. Specifically, my consultations have included the retrieval, preservation, and analysis of a variety of electronic evidence in order to present facts and opinions.

4. I attended the University of Michigan where I received a Bachelor’s Degree in Mathematics. I have multiple certifications in computer forensics and other information security fields.

RETENTION AND ASSIGNMENT

5. Stroz Friedberg was retained by Provisur, under the direction of Willkie Farr & Gallagher LLP, to preserve a webpage and video content on that webpage.

6. I preserved the webpage and video content on December 4 and December 5, 2023. A true and accurate copy of the original evidence was captured.

PRESERVATION

7. I preserved the YouTube webpage and embedded video file residing at the following URL: https://www.youtube.com/watch?v=caL_C4AqnyA (“the YouTube webpage”) on December 4 and December 5, 2023.
8. I preserved the YouTube webpage using two separate processes. Due to the dynamically streamed content of a YouTube video, specialized tools or scripting must be used to preserve the content of, and some of the metadata underlying, a YouTube video. Separately, I preserved the non-video contents of the YouTube webpage itself.
9. I used the publicly available tool “yt-dlp” on December 4, 2023, to preserve the YouTube video itself from the YouTube page¹. The “yt-dlp” tool can be, and was, configured to capture a target YouTube video to a MP4 file and to capture metadata information about the target YouTube page itself. This preservation resulted in an MP4 file called “Weber Slicer 604 mit Käse.mp4” (“the captured video”). The captured video is of size 16,324,374 bytes and has a SHA1 cryptographic hash value of 1c46b6352ce26f3f621bcb9a2d5c38ab7d9beae9².
10. Of the metadata recorded from the YouTube page by “yt-dlp”, the upload date of the video is noted as “20160825”. This is consistent with the stated upload date on the YouTube page itself of “Aug 25, 2016”.
11. I understand that a true and correct copy of the preserved video file will be filed separately, in native form, as an exhibit.
12. I preserved the YouTube webpage by accessing its URL via version 119.0.6045.200 of the Google Chrome web browser on December 5, 2023, to capture additional metadata about the YouTube webpage itself. Upon accessing the YouTube webpage, I used multiple built-in

¹ For more information on the yt-dlp tool, see its GitHub repository: <https://github.com/yt-dlp/yt-dlp>

² The SHA1 algorithm is one of many publicly-established mathematical functions commonly used to establish file integrity and uniqueness via cryptographic hashing resulting in a hexadecimally-formatted numerical output.

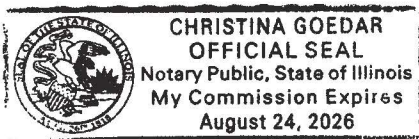
functionalities of the Google Chrome web browser to capture the content of the YouTube webpage. I used all three settings of the “Save Page As...” feature within Google Chrome to capture the data that comprised the YouTube webpage. The resulting downloaded iterations of the YouTube webpage were preserved as it would appear to a Google Chrome user, besides the YouTube video itself, which was preserved separately.

13. I used the “Webpage, HTML Only (*.html; *.htm)” setting of the “Save Page As...” feature to preserve the YouTube webpage on December 5, 2023, at 04:13 UTC. This preservation captured the contents of the YouTube webpage in a single “.html” file of size 1,014,698 bytes.

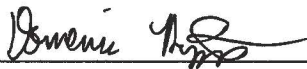
14. I used the “Webpage, Single File (*.mhtml)” setting of the “Save Page As...” feature to preserve the YouTube webpage on December 4, 2023, at 04:13 UTC. This preservation captured the contents of the YouTube webpage in a single “.mhtml” file of size 3,977,438 bytes.

15. I used the “Webpage, Complete (*.html; *.htm)” setting of the “Save Page As...” feature to preserve the YouTube webpage on December 5, 2023, at 04:12 UTC³. This preservation captured the contents of the webpage and its associated elements in 57 separate files that sum to a total size of 16,464,119 bytes.

16. Under penalties of perjury, I declare that the foregoing Declaration and that the facts stated in it are true and correct.




Christina Goedar
Commission # 881221

By: 
Name: Domenic Rizzolo
Title: Manager, Stroz Friedberg
Date: 2023-12-06

³ All dates in this declaration are recorded in Universal Coordinate Time (“UTC”) unless otherwise noted. Some timestamps have been converted to UTC from their original time zones.

Domenic Rizzolo

Manager



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PROFESSIONAL EXPERIENCE

Stroz Friedberg, an Aon Company

Manager, April 2020 to present
Chicago, IL

Manage Chicago, formerly Minneapolis, forensic lab and directly supervise forensic and incident response examiners. Conduct digital forensic acquisitions and examinations of laptops, desktops, and other digital storage media in civil litigations, criminal matters, and internal investigations. Conduct significant breach investigations. Utilize various open-source and proprietary analysis tools to identify attacker presence and impact. Identify data exfiltration through forensic host analysis, memory analysis, and active SIEM and IDS monitoring. Preserved and analyzed data from laptops, desktop computers, servers, and mobile devices. Identify clients' risk related to internal IT infrastructure, publicly available IT assets, and other relevant attack surfaces.

Senior Consultant, April 2018 to May 2020

Consultant, June 2016 to April 2018

Cyber Associate, September 2015 to May 2016

Duo Security

Security Researcher, Labs Division & Office of the CTO, April 2014 to April 2015
Ann Arbor, MI

Contributed to special projects, assessments, and creation of strategic surprise in daily collaboration with CTO and Duo Labs research team. Created and refined content drawing 5,000+ unique viewers to the company website. Assisted in vulnerability research, cataloging, and disclosure; developed code in collaboration with Engineering, Product, and Marketing; published internal threat assessments.

Levy Restaurants: Park View at Ravinia Festival

Lead Server and Caterer, Summer 2012 to Summer 2013
Highland Park, IL

University of Michigan

Research Assistant on "The Cyberwar History Project", September 2012 to May 2013
Ann Arbor, MI

Researched and analyzed scholarly articles, tracked findings in database, interpreted and analyzed metadata, extrapolated trends. Other projects included presenting findings at annual University Research Symposium

Vector Marketing

Personal Sales Associate, Summer 2011
Northbrook, IL

About: Aon's Cyber Solutions offers holistic cyber risk management, unsurpassed investigative skills, and proprietary technologies to help clients uncover and quantify cyber risks, protect critical assets, and recover from cyber incident.

Cyber security services offered by Stroz Friedberg Inc. and its affiliates. Insurance products and services offered by Aon Risk Insurance Services West, Inc., Aon Risk Services Central, Inc., Aon Risk Services Northeast, Inc., Aon Risk Services Southwest, Inc., and Aon Risk Services, Inc. of Florida and their licensed affiliates.

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EDUCATION

University of Michigan, Ann Arbor, Michigan
Bachelors of Science, Mathematics - Discrete and Algorithmic Methods, May 2015

Certifications

GIAC Defending Advanced Threats (GDAT) 2020. Global Information Assurance Certification
GIAC Certified Forensic Analyst (GCFA), 2019-2023. Global Information Assurance Certification
GIAC Network Forensic Analyst (GNFA), 2018. Global Information Assurance Certification
GIAC Certified Forensic Examiner (GCFE), 2015-2023. Global Information Assurance Certification

Training

Stroz Friedberg Internal Cyber Training Program: Participate in regular in-house training presentations on current digital forensics, cybercrime response, computer security, desktop, and network forensic tools in conjunction with relevant legal and industry matters. Lead advanced training for annual associate classes.

SANS DFIR, Forensics 509: Enterprise Cloud Forensics and Incident Response. Attended week-long training with focus on cloud hosting infrastructure, digital forensic processes in cloud computing environments, and responding to threats against enterprise cloud environments.

SANS DFIR, Security 599: Defeating Advanced Adversaries - Purple Team Tactics & Kill Chain Defenses. Attended week-long training with focus on advanced attack techniques and corresponding system defenses.

SANS DFIR, Forensics 508: Advanced Incident Response, Threat Hunting, and Digital Forensics. Attended week-long training on enterprise incident response and forensics.

SANS DFIR, Forensics 572: Advanced Network Forensics. Attended week-long training focused on evidence collection and analysis of computer networks.

SANS DFIR, Security 504: Hacker Tools, Exploits, and Incident Handling. Attended week-long training focused on incident response and network intrusion techniques.

SANS DFIR, Forensics 408: Windows Forensic Analysis, September 2015 Attended week-long training on in-depth forensic analysis of Windows operation systems.

Lectures and Presentations

Winter Semester 2016, 2017, 2018, 2020, 2021, 2022, 2023: Guest Lecture presentation "Introduction to Forensics", at Loyola University Chicago class on Electronic Discovery Law & Problem Solving

August 2014: Presented on "Hacker Community and Culture", at BSides InfoSec Conference, Las Vegas, NV

May 2017: Guest Lecture presentation "Digital Forensics & Incident Response", at DePaul University

February 2018: Guest Lecture presentation "Simplified Kill Chain: Actor Sophistication" at Northwestern University class "COMP_SCI 355: Digital Forensics and Incident Response"

May 2018: Presented on "Family-Style Incident Response" at BSides Chicago Conference

September 2018: Presenter on "What Keeps You Up at Night" roundtable at Washington University in St. Louis

Awards and Recognition

SANS Institute "DFIR Netwars" Individual Event Winner, December 2020

SANS Institute "DFIR Netwars" Team Event Winner, December 2017 & 2018

Michigan Traditions Scholarship for Notable Academic Achievement, University of Michigan, 2012 - 2015

Paul Taylor Award for Most Valuable Member, University of Michigan Men's Glee Club,

Llangollen Award for Tradition, Camaraderie, and Musical Excellence, University of Michigan Men's Glee Club,

Youth Leadership Award, Archdiocese of Chicago Vicariate II,