

MITM-ing cryptographic standards

~~Looking back on a 3 year old accident
How the f*** did we get there again?~~

Tales from a Rogue Archive

MITM-ing cryptographic standards

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MITM-ing cryptographic standards

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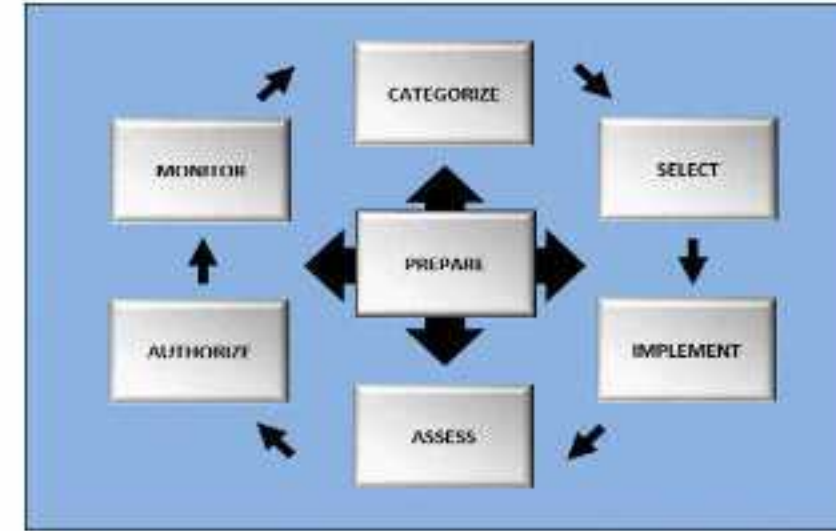


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NIST UPDATES THE RISK MANAGEMENT FRAMEWORK (SP 800-37 REV. 2)!



NEW SEARCH INTERFACE AVAILABLE FOR CRYPTO ALGORITHM VALIDATIONS



REQUESTING LIGHTWEIGHT CRYPTO ALGORITHM NOMINATIONS

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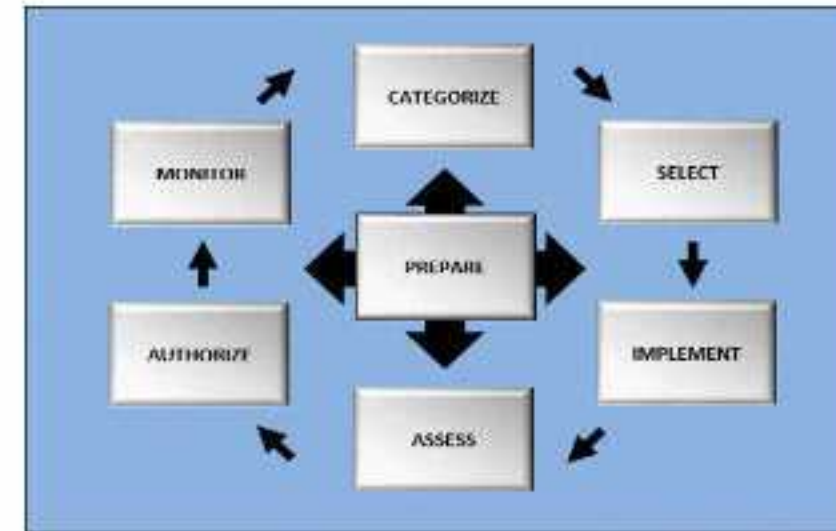
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PROJECTS

Cryptographic Standards and Guidelines



Project Overview

Users of the former "Crypto Toolkit" can now find that content under this project. It includes cryptographic primitives, algorithms and schemes are described in some of NIST's Federal Information Processing Standards (FIPS), Special Publications (SPs) and NIST Internal/Interagency Reports (NISTIRs).

Crypto Standards and Guidelines, by Project Area

- [Block Cipher Techniques](#)
- [Digital Signatures](#)
- [Hash Functions](#)
- [Key Management](#)
- [Message Authentication Codes \(MACs\)](#)
- [Post-quantum Techniques](#)
- [Random Bit Generation](#)

Implementation-related References

- [Examples with Intermediate Values](#)
- [Object Identifiers \(OIDs\): Computer Security Objects Register](#)
- [Cryptographic Algorithm Validation Program \(CAVP\)](#)

PROJECT LINKS

Overview

Publications

ADDITIONAL PAGES

[Example Values](#)

[Crypto-Enabled Applications](#)

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CONTACTS

Dr. Lily Chen

lily.chen@nist.gov

GROUP

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Keywords: 800- Sorted By: Number (highest to lowest) Status: Draft Final Series: SP

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| SP | 800-195 | 2016 NIST/ITL Cybersecurity Program Annual Report Download: SP 800-195 (DOI); Local Download | Final | 9/28/2017 |
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| SP | 800-187 | Guide to LTE Security Download: SP 800-187 (DOI); Local Download | Final | 12/21/2017 |
| SP | 800-185 | SHA-3 Derived Functions: cSHAKE, KMAC, TupleHash, and ParallelHash Download: SP 800-185 (DOI); Local Download; Comments Received on Draft SP 800-185 | Final | 12/22/2016 |

PROJECTS

CRYPTOGRAPHIC MODULE VALIDATION PROGRAM

Cryptographic Module Validation Program



Validated Modules

All questions regarding the implementation and/or use of any validated cryptographic module should first be directed to the appropriate VENDOR point of contact (listed for each entry).

SEARCH our database of validated modules.

The FIPS 140-1 and FIPS 140-2 [validated modules search](#) provides access to the official validation information of all cryptographic modules that have been tested and validated under the Cryptographic Module Validation Program as meeting requirements for FIPS PUB 140-1 and FIPS PUB 140-2. The search results list all issued validation certificates that meet the supplied search criteria and provide a link to view more detailed information about each certificate. The Certificate Detail listing provides the detailed module information including algorithm implementation references to the [CAVP algorithm validation](#), Security Policies, original certificate images or reference to the consolidated validation lists, and vendor product links if provided.

If a validation certificate is marked as **revoked**, the module validation is no longer valid and may not be referenced to demonstrate compliance to FIPS 140-1 or FIPS 140-2.

If a validation certificate is marked as **historical**, Federal Agencies should not include these in new procurement. This does not mean that the overall FIPS-140 certificates for these modules have been revoked, rather it indicates that the certificates and the documentation posted with them are more than 5 years old and have not been updated to reflect latest guidance and/or transitions, and may not accurately reflect how the module can be used in FIPS mode. Agencies may make a risk determination on whether to continue using the modules on this list based on their own assessment of where and how the module is used.

It is important to note that validation certificates are issued for cryptographic *modules*. A module may *either* be an

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CONTACTS

Beverly Trapnell**NIST CMVP Acting Program Manager**cmvp@nist.gov

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Due to a government shutdown, we're going to take away resources that might otherwise help make things more secure. Someone had to unpublish or hide this information. Well done USG! csrc.nist.gov/publications/commerce.gov/news/blog/2018...



4:36 am · 4 Jan 2019 · Twitter Web Client

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Chris Olive @ChrisEOlive · 4 Jan 2019
Replying to @briancrebs

When I worked at the #DoD, shutdowns meant "all non-essential functions" would shutdown. So... read into that whatever you like. I'm sure the disposition here hasn't changed in 25 years.



Clint Bowling @bowlingca44 · 4 Jan 2019
Replying to @briancrebs
No wall no deal



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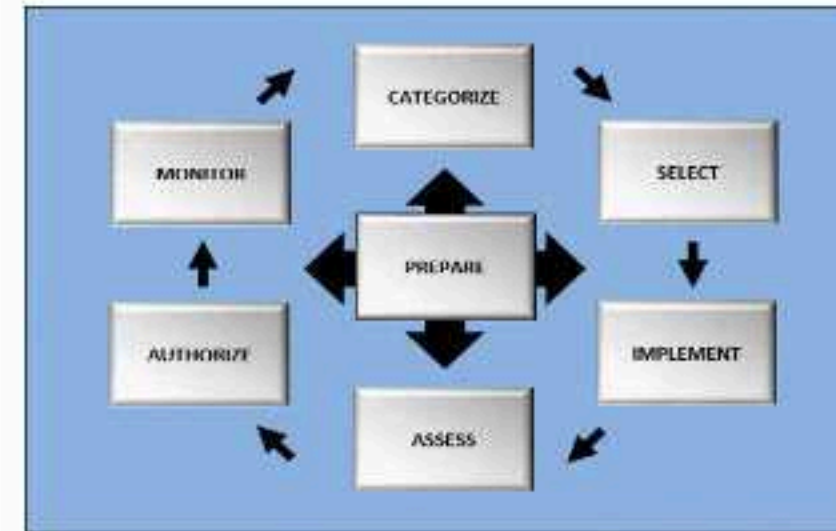
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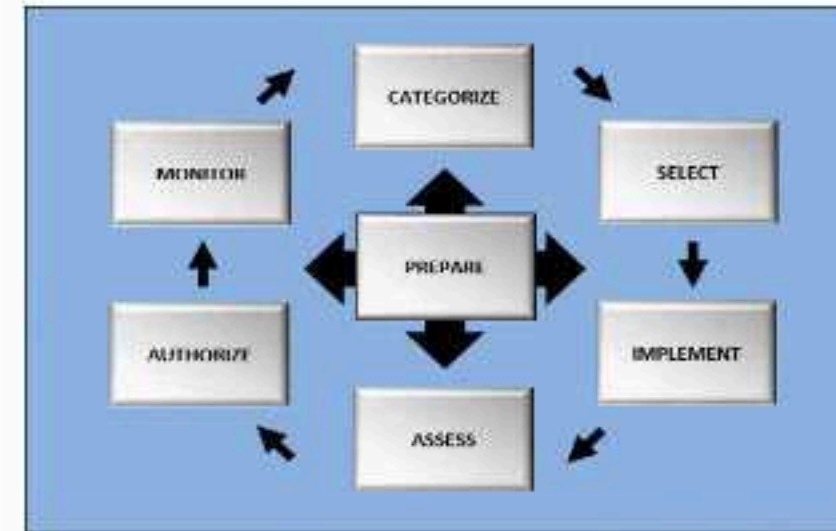
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Projects

Sorted By: **Project Name (A-Z)**

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Access Control Policy and Implementation Guides ACP&IG

Adequate security of information and information systems is a fundamental management responsibility. Nearly all applications that deal with financial, privacy, safety, or defense include some form of access (authorization) control. Access control is concerned with determining the allowed activities of legitimate users, mediating every attempt by a user to access a resource in the system. In some systems, complete access is granted after s successful authentication of the user, but most...

Access Control Policy Testing ACPT

Access control systems are among the most critical security components. Faulty policies, misconfigurations, or flaws in software implementation can result in serious vulnerabilities. The specification of access control policies is often a challenging problem. Often a system's privacy and security are compromised due to the misconfiguration of access control policies instead of the failure of cryptographic primitives or protocols. This problem becomes increasingly severe as software systems...

Algorithms for Intrusion Measurement AIM

The Algorithms for Intrusion Measurement (AIM) project furthers measurement science in the area of algorithms used in the field of intrusion detection. The team focuses on both new detection metrics and measurements of scalability (more formally algorithmic complexity). This analysis is applied to different phases of the detection lifecycle to include pre-emptive vulnerability analysis, initial attack detection, alert impact, alert aggregation/correlation, and compact log storage. In...

Apple macOS Security Configuration APPLE-OS

CSD's macOS security configuration team is working to develop secure system configuration baselines supporting different operational environments for Apple macOS version 10.12 "Sierra." These configuration guidelines will assist organizations with hardening macOS

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Search Project Name, Acronym, Description

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- nist.py
- pdfs
 - .gitignore
- requirements.txt
- whitelist.txt

```

190 +
191 +     text += '</body></html>'
192 +     return text
193 +
194 +
195 + @app.route('/', defaults={'path': 'index.html'})
196 + @app.route('/<path:path>')
197 + def nist(path):
198 +     path = fixup_path(path)
199 +     path = redact_path(path)
200 +
201 +     out = from_filesystem(path)
202 +     if out is None:
203 +         pull_wayback(path)
204 +         out = from_filesystem(path)
205 +
206 +     if out is None:
207 +         return not_found(path), 404
208 +
209 +     if path.endswith('.js'):
210 +         mimetype = 'text/script'
211 +     elif path.endswith('.css'):
212 +         mimetype = 'text/css'
213 +     else:
214 +         mime = magic.Magic(mime=True)
215 +         mimetype = mime.from_buffer(out)
216 +
217 +     out = out.replace(b'csrc.nist.gov', b'csrc.nist.rip')
218 +     out = out.replace(b'webmaster-csrc@nist.gov', b'webmaster-csrc@nist.rip')
219 +     return Response(out, mimetype=mimetype)
220 +
221 +
222 + if __name__ == '__main__':
223 +     app.run(host='0.0.0.0', port='8080')

```

1 pdfs/.gitignore

... .. @@ -0,0 +1 @@

1 + *.pdf

3 requirements.txt

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196 + @app.route('/<path:path>')
197 + def nist(path):
198 +     path = fixup_path(path)
199 +     path = redact_path(path)
200 +
201 +     out = from_filesystem(path)
202 +     if out is None:
203 +         pull_wayback(path)
204 +         out = from_filesystem(path)
205 +
206 +     if out is None:
207 +         return not_found(path), 404
208 +
209 +     if path.endswith('.js'):
210 +         mimetype = 'text/script'
211 +     elif path.endswith('.css'):
212 +         mimetype = 'text/css'
213 +     else:
214 +         mime = magic.Magic(mime=True)
215 +         mimetype = mime.from_buffer(out)
216 +
217 +     out = out.replace(b'csrc.nist.gov', b'csrc.nist.rip')
218 +     out = out.replace(b'webmaster-csrc@nist.gov', b'webmaster-csrc@nist.rip')
219 +     return Response(out, mimetype=mimetype)
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221 +
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1 pdfs/.gitignore

... .. @@ -0,0 +1 @@

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3 requirements.txt



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**NIST Special Publication 800-90A
Revision 1**

**Recommendation for Random
Number Generation Using
Deterministic Random Bit Generators**

Elaine Barker
John Kelsey

This publication is available free of charge from:
<http://dx.doi.org/10.6028/NIST.SP.800-90Ar1>

C O M P U T E R S E C U R I T Y



Appendix D : (Informative) References

- [FIPS 140] Federal Information Processing Standard (FIPS) 140-2, *Security Requirements for Cryptographic Modules*, May 25, 2001 (including Change Notices as of December 3, 2002).
<http://csrc.nist.gov/publications/fips/fips140-2/fips1402.pdf> [accessed 6/9/15].
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- [SP 800-38D] National Institute of Standards and Technology Special Publication (SP) 800-38D, *Recommendation for Block Cipher Modes of Operation: Galois/Counter Mode (GCM) and GMAC*, November 2007.
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- [SP 800-67] NIST Special Publication (SP) 800-67 Revision 1, *Recommendation for the Triple Data Encryption Algorithm (TDEA) Block Cipher*, January 2012.
<http://csrc.nist.gov/publications/nistpubs/800-67-Rev1/SP-800-67-Rev1.pdf> [accessed 6/9/15].
- [SP 800-90B] NIST Special Publication (SP) 800-90B (Draft), *Recommendation for the Entropy Sources Used for Random Bit Generation*, August 2012 [re-released September 2013].
<http://csrc.nist.gov/publications/drafts/800-90/draft-sp800-90b.pdf> [accessed 6/9/15].
- [SP 800-90C] NIST Special Publication (SP) 800-90C (Draft), *Recommendation for Random Bit Generator (RBG) Constructions*, August 2012 [re-released September 2013].



however, be appreciated by NIST.

National Institute of Standards and Technology Special Publication 800-90A Revision 1
Natl. Inst. Stand. Technol. Spec. Publ. 800-90A Rev. 1, 109 pages (June 2015)
CODEN: NSPUE2

This publication is available free of charge from:
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Certain commercial entities, equipment, or materials may be identified in this document in order to describe an experimental procedure or concept adequately. Such identification is not intended to imply recommendation or endorsement by NIST, nor is it intended to imply that the entities, materials, or equipment are necessarily the best available for the purpose.

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master

plcp committed on 15 Jan 2019 1 parent [655a019](#) commit [c8bebd0a5e4c3fb66c9ffb37e2](#)

Showing 1 changed file with 3 additions and 0 deletions. [Split](#) [Unified](#)

```

337 337     mime = magic.Magic(mime=True)
338 338     mimetype = mime.from_buffer(out[:2**20])
339 339
340 +   if 'application' in mimetype or path.endswith(library_extensions):
341 +       return Response(out, mimetype=mimetype)
342 +
340 343     out = out.replace(bytes(_old_url, 'utf8'), bytes(_base_url, 'utf8'))
341 344     out = out.replace(b'webmaster-csirc@nist.gov', b'webmaster-csirc@nist.rip')
342 345

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Access Control Policy and Implementation Guides ACP&IG

Adequate security of information and information systems is a fundamental management responsibility. Nearly all applications that deal with financial, privacy, safety, or defense include some form of access (authorization) control. Access control is concerned with determining the allowed activities of legitimate users, mediating every attempt by a user to access a resource in the system. In some systems, complete access is granted after s successful authentication of the user, but most...

Access Control Policy Testing ACPT

Access control systems are among the most critical security components. Faulty policies, misconfigurations, or flaws in software implementation can result in serious vulnerabilities. The specification of access control policies is often a challenging problem. Often a system's privacy and security are compromised due to the misconfiguration of access control policies instead of the failure of cryptographic primitives or protocols. This problem becomes increasingly severe as software systems...

Algorithms for Intrusion Measurement AIM

The Algorithms for Intrusion Measurement (AIM) project furthers measurement science in the area of algorithms used in the field of intrusion detection. The team focuses on both new detection metrics and measurements of scalability (more formally algorithmic complexity). This analysis is applied to different phases of the detection lifecycle to include pre-emptive vulnerability analysis, initial attack detection, alert impact, alert aggregation/correlation, and compact log storage. In...

Apple macOS Security Configuration APPLE-OS

CSD's macOS security configuration team is working to develop secure system configuration baselines supporting different operational environments for Apple macOS version 10.12 "Sierra." These configuration guidelines will assist organizations with hardening macOS

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 R Kuhn, K Sriram, D Montgomery - NIST Special Publication, 2007 - csrc.nist.rip
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 L Mastilak, M Galinski, P Helebrandt, I Kotuliak, M Ries - Sensors, 2020 - mdpi.com
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 ST Kent - ... on Communications and Multimedia Security, 2003 - Springer
 ... is exchanged between ASes using the **Border Gateway Protocol (BGP)** [1], ... **secure** means of verifying the authorization of BGP control traffic. In April 1997, we began work on the **security** ...
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Secure border gateway protocol (S-BGP)
 S Kent, C Lynn, K Seo - IEEE Journal on Selected areas in ..., 2000 - ieeexplore.ieee.org
 ... Routing information is exchanged between ASes in **Border Gateway Protocol** (... **security** architecture described in this paper. In this section we describe the problem—how the **protocol** ...
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 BR Smith... - ... of GLOBECOM'96, 1996 ..., 1996 - ieeexplore.ieee.org
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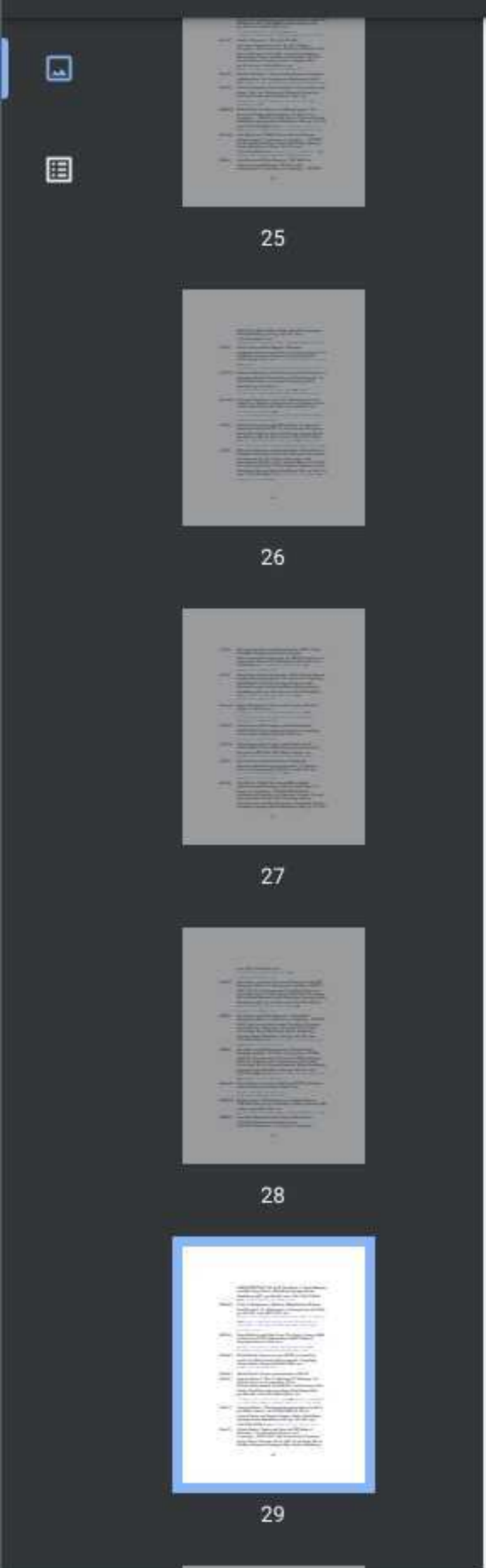
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 MO Nicholes, B Mukherjee - IEEE communications surveys & ..., 2009 - ieeexplore.ieee.org
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[https://csrc.nist.rip/library/NIST SP 800-054 Border Gateway Protocol Security, 2007-07-17 \(Final\).pdf](https://csrc.nist.rip/library/NIST SP 800-054 Border Gateway Protocol Security, 2007-07-17 (Final).pdf) ide **security** for this ...

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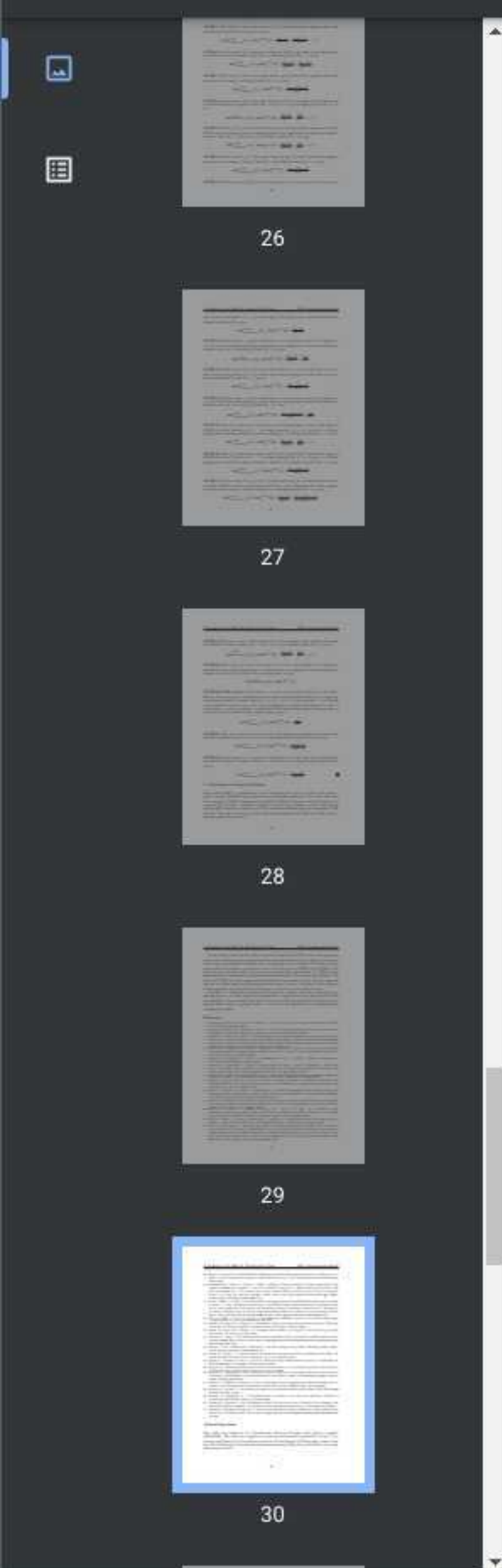
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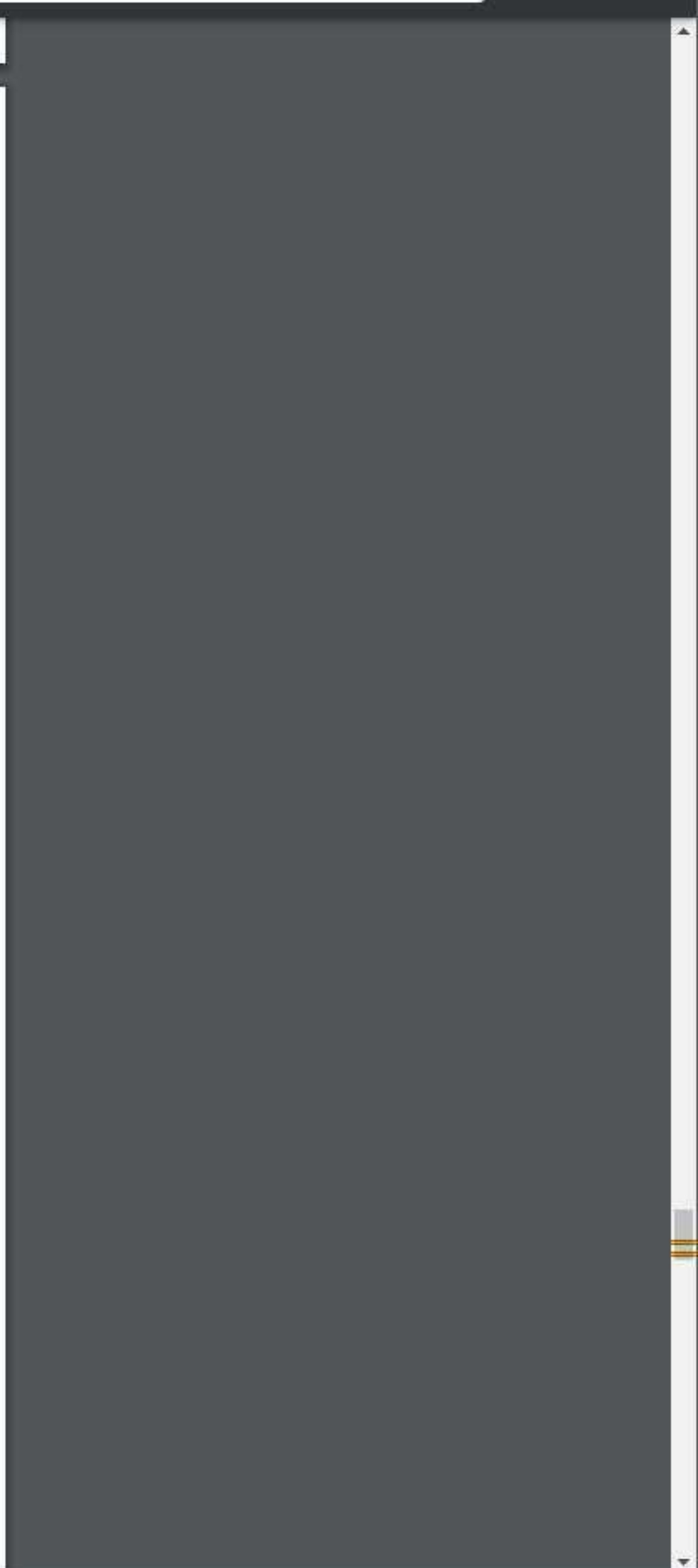


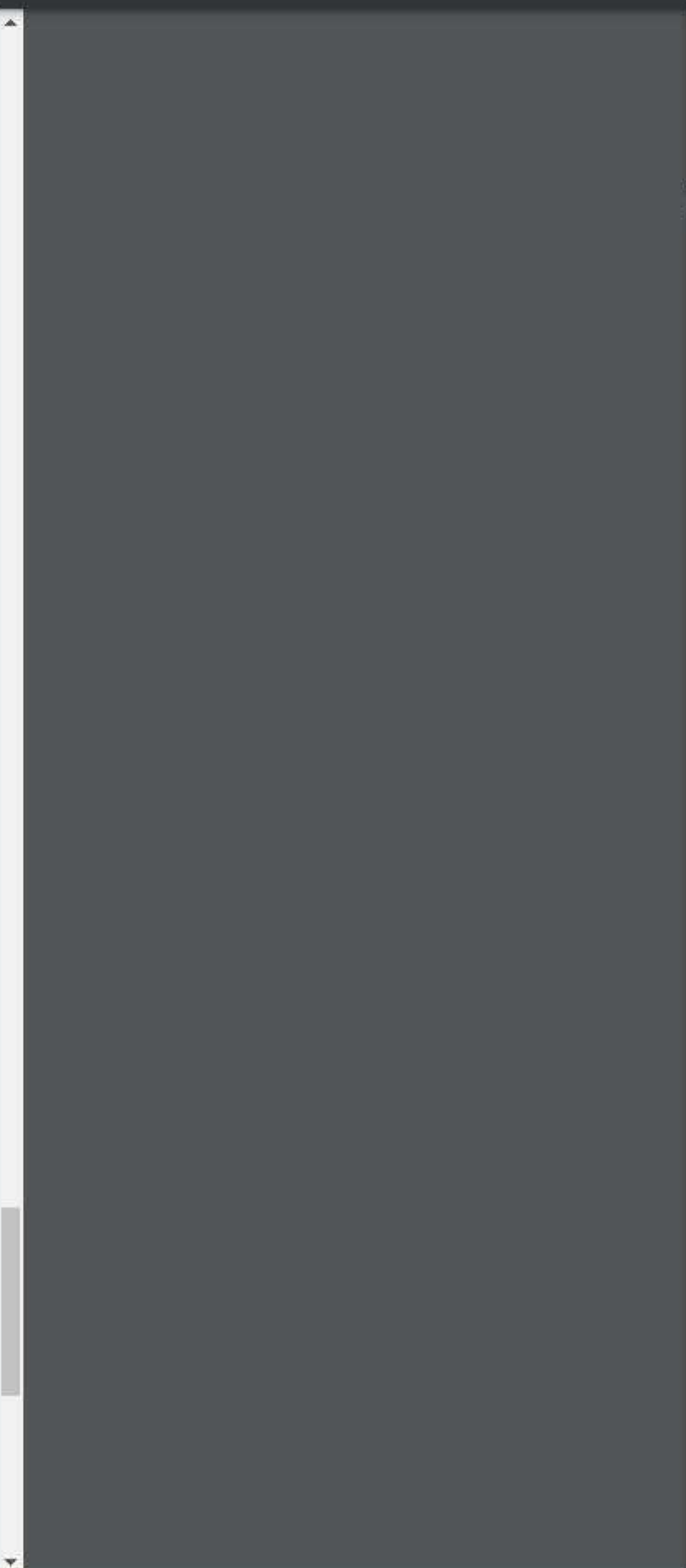
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Acknowledgements

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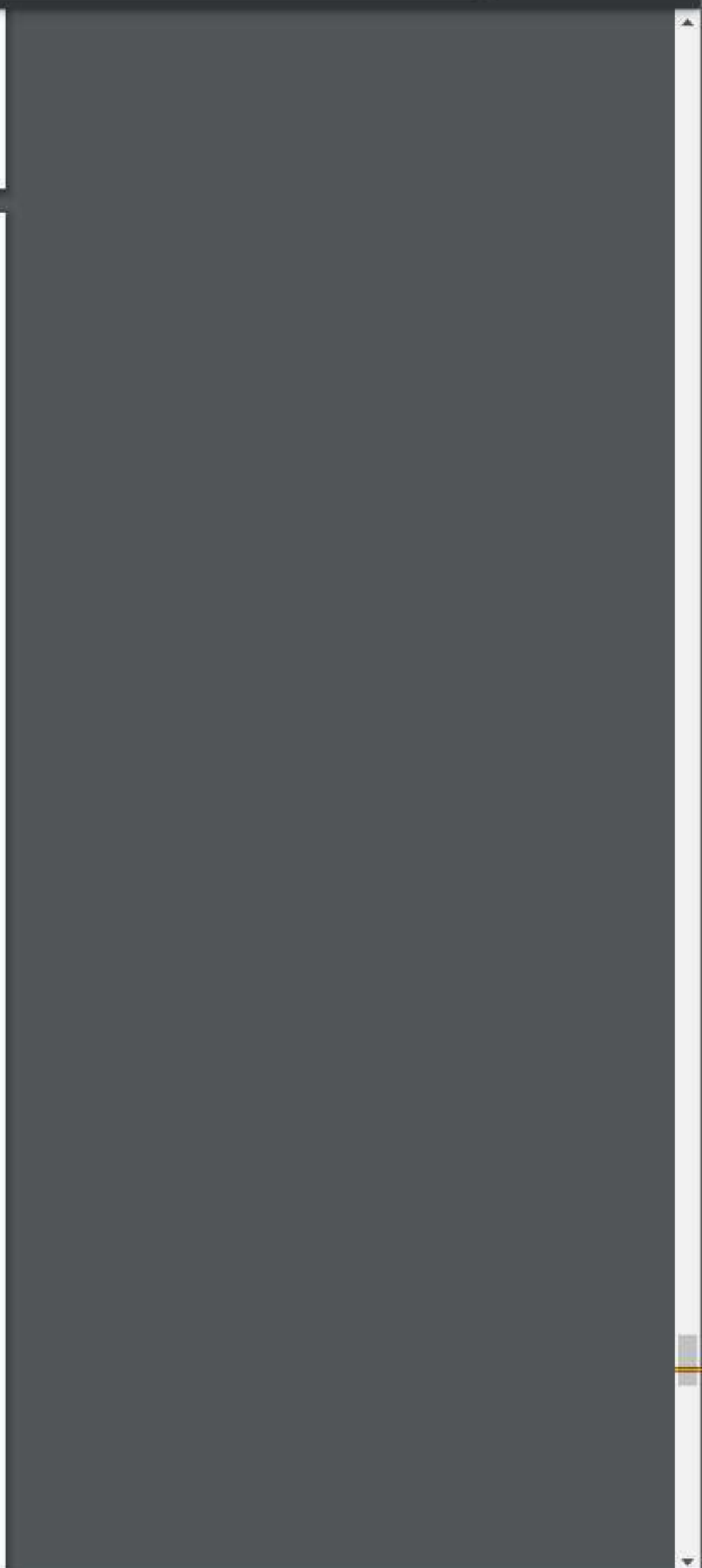
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1069





1



2



3



4



Sentry ONE CSPN Security Target

1. Product identification

| | |
|---------------------------|--|
| Publishing organization | DataLocker Inc. |
| Link to the organization | www.datalocker.com |
| Trade name of the product | Sentry ONE |
| Article (SKU) | SONEXXX |
| Version number evaluated | Device software 6.3, chipset firmware 3.05 |
| Category of product | Secure storage |

2. Description of product

2A. General description

The main use of the secure USB flash drive Sentry ONE is to automatically hardware encrypt and mandatory password protect any stored user data on the USB storage device to allow storage and/or transport.

Concerning the product reference (SONEXXX), XXX denotes storage capacity option.

As a matter of further user assurance the product is certified to FIPS 140-2 level 3, see the Security Policy #2753 for details.¹

¹ <https://csrc.nist.gov/groups/STM/cmvp/documents/140-1/140sp/140sp2753.pdf>

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


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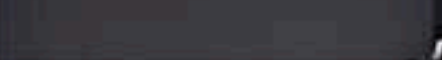




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<https://csrc.nist.rip/groups/SMA/fisma/Risk-Management-Framework/select/index.html>

Kind Regards,

, CISSP-ISSEP, CISM, CGEIT
 A Computerworld Premier 100 Leader

Cell: 407-575-5781
 Web: www.BlueCyren.com
 Email: cso@BlueCyren.com

<[https://www.linkedin.com/in/\[redacted\]/](https://www.linkedin.com/in/[redacted]/)>

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47.24 KB 1 file attached



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Add label +

1.77 GB / 18.00 GB

5.0.2.4

[6] AES conference 2 - feedback summary report missing

From [redacted]@inesctec.pt March 16th, 2021

To webmaster-csrc

[Unsubscribe] [Report] [More]

Hello, while trying to access the document the following document: <https://csrc.nist.gov/encryption/aes/round1/conf2/feedback-summary.pdf> which is mentioned in the following webpage: <https://csrc.nist.gov/encryption/aes/round1/conf2/aes2conf.htm> as: "NIST received [feedback from the AES2 attendees](#), regarding their thoughts on the candidate algorithms."

I'm redirected to a webpage: "[Unable to pull this media from the archive, send us your copy here!](#)"

Could you please restore the mentioned document, [feedback-summary.pdf](#), or send me a copy of it?

Thanks.
Best regards,
[redacted]

From [redacted] March 16th, 2021

To [redacted] webmaster-csrc

[Unsubscribe] [Report] [More]

Hello,

You're getting this message because we do not have this file archived, unfortunately.

I've looked a bit around, maybe these files may be of interest for you:

- 1. <https://csrc.nist.gov/encryption/aes/round2/comments/AESround2comments-1.zip>
- 2. <https://csrc.nist.gov/encryption/aes/round2/comments/AESround2comments-2.zip>

There is a primitive index of all the files we have here:

[8] Remove existing DellEMC.com links

From DellEMC SEO <dellemcseo@eclerx.com>

July 11th, 2019

To webmaster-csrc, DellEMC SEO



Hello,

My name is Suraj Torane and I work for eClerx supporting Dell for SEO. I'm in the process of updating DellEMC com links, and came across one on your site. On behalf of Dell I would like to request the removal of the below link from your webpage as we find it irrelevant in regards to our products and services.

The page that include the URL with DellEMC.com is listed below. We request you to please remove them.

1. Page: <https://csrc.nist.rip/groups/STM/cavp/documents/shs/shaval.html>
Existing URL: <http://www.emc.com/>
2. Page: <https://csrc.nist.rip/groups/STM/cavp/documents/dss/dsanewval.html>
Existing URL: <http://www.emc.com/>
3. Page: <https://csrc.nist.rip/groups/STM/cavp/documents/dss/rsahistoricalval.html>
Existing URL: <http://www.emc.com/>

Thank you for your support in advance.

Regards,

eClerx Services Limited [www.eClerx.com]

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1.77 GB / 18.00 GB 5.0.2.4

[3] FW: Possible to delete https://csrc.nist.rip/groups/ST/QPL/docs/QPL_...pdf

From [redacted] <[redacted]> @nist.gov

February 9th, 2021

To webmaster-csrc

[Redaction icons]

Hello,

I realized that my email yesterday went to webmaster-csrc@nist.gov and not webmaster-csrc@nist.rip, so I am also sending to "@nist.rip" in hopes that the page can be deleted soon. Please let me know and see the message below if you need a link to [redacted]'s bio for the referring page.

Thanks,
[redacted]

From: [redacted] <[redacted]> @nist.gov
Sent: Monday, February 8, 2021 1:05 PM
To: webmaster-csrc <webmaster-csrc@nist.gov>
Cc: [redacted] . (Fed) <[redacted]> @nist.gov
Subject: Possible to delete https://csrc.nist.rip/groups/ST/QPL/docs/QPL_...BIO.pdf

Hi,

As the webmaster for my group, I have been asked to see if this page: https://csrc.nist.rip/groups/ST/QPL/docs/QPL_...BIO.pdf can be deleted. The bio is out-of-date and [redacted] has requested that it be removed. If a link to Mr. [redacted]'s bio is required, please use this: [https://www.nist.gov/people/\[redacted\]](https://www.nist.gov/people/[redacted])

Please let me know when this page has been deleted.

Thanks,
[redacted]

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