dmarc-aggregate-parser Documentation

Release 1.0

Dan Nielsen

Apr 28, 2020

Contents:

CHAPTER 1

dmarcap package

1.1 dmarcap.auth_results module

dmarcap/auth_results.py - DMARC aggregate report AuthResultsType representation. Ref. https://tools.ietf.org/html/rfc7489#appendix-C

class dmarcap.auth_results.**AuthResults**
Bases: future.types.newobject.newobject

Representation of AuthResultsType

dkim = None
DkimAuthentication

spf = None
SpfAuthentication

class dmarcap.auth_results.**Authentication**(*domain=None*, *result=None*)
Bases: future.types.newobject.newobject

Base class for verification results

domain = None
Domain name represented in this verification

result = None
Verification result

class dmarcap.auth_results.**DkimAuthentication**(*domain=None*, *result=None*)
Bases: *dmarcap.auth_results.Authentication*

Representation of DkimAuthResultType

human_result = None
Any friendly, human-readable message.

selector = None
DKIM selector, e.g. k1, used in authentication

class dmarcap.auth_results.**SpfAuthentication**(*domain=None*, *result=None*)
Bases: *dmarcap.auth_results.Authentication*

Representation of SpfAuthResultType

scope = None
SPF domain scope

1.2 dmarcap.identifiers module

dmarcap/identifiers/py - DMARC aggregate report IdentifierType representation Ref. https://tools.ietf.org/html/rfc7489#appendix-C

class dmarcap.identifiers.**Identifiers**
Bases: future.types.newobject.newobject

Represention of the aggregate record IdentifierType

envelope_from = None
Envelope from of the evaluated message or SMTP transaction. E.g. `MAIL FROM:<errors@example.com>` or `Return-Path: <errors@example.com>`

envelope_to = None
Envelope recipient of the SMTP transaction. E.g `RCPT TO: <jane@example.com>`

header_from = None
From header field of the evaluated message

1.3 dmarcap.meta_data module

dmarcap.py/meta_data.py - DMARC aggregate report meta data representation. Ref. https://tools.ietf.org/html/rfc7489#appendix-C

class dmarcap.meta_data.**MetaData**
Bases: future.types.newobject.newobject

Representation of aggregate report MetaDataType

begin_localized_date_iso()
Return report begin date in localtime ISO format

begin_utc_date_iso()
Returns report begin date in UTC ISO format

date_range_begin = None
Report date range beginning (unix timestamp).

date_range_end = None
Report date range ending (unix timestamp).

email = None
Organzation contact email

end_localized_date_iso()
Return report end date in localtime ISO format

end_utc_date_iso()
Returns report end date in UTC ISO format

extra_contact_info = None
Additional organization contact info

org_name = None
Organization which generated the report

report_id = None
Unique report id

1.4 dmarcap.parser module

dmarcap/parser.py - Primary DMARC XML aggragate report parsing class

class dmarcap.parser.**Parser**(*dmarc_report_xml_file*)
Bases: future.types.newobject.newobject

Aggregate report parser base class

parse_meta_data()
Parse report meta data into *MetaData*

parse_policy_published()
Parse report published policy into *PolicyPublished*

parse_report()
Parse report into *Report*

parse_report_records()
Parse aggregate report records into a list of *Record*

1.5 dmarcap.policy_evaluated module

dmarcap/policy_evaluated.py - DMARC aggregate report evaluation policy representation. Ref. https://tools.ietf.org/html/rfc7489#appendix-C

class dmarcap.policy_evaluated.**PolicyEvaluated**
Bases: future.types.newobject.newobject

Representation of PolicyEvaluatedType

disposition = None
Disposition of the *Record*

dkim = None
Dkim result for the *Record*

spf = None
Spf result for the Record

class dmarcap.policy_evaluated.**Reason**(*reason_type*, *reason_comment*)
Bases: future.types.newobject.newobject

Representation of Reason in PolicyEvaluatedType

comment = None
Disposition of the *Record*

type = None
Disposition of the *Record*

1.6 dmarcap.policy_published module

dmarcap/policy_published.py - DMARC aggregate report published policy representation. Ref. https://tools.ietf.org/html/rfc7489#appendix-C

class dmarcap.policy_published.**PolicyPublished**
Bases: future.types.newobject.newobject

Representation of PolicyPublishedType

adkim = None
Dkim authentication mode

aspf = None
Spf authentication mode

domain = None
Domain publishing this policy

failure_reporting_options = None
Long format accessor for *fo*

fo = None
Failure reporting options

p = None
DMARC policy

pct = None
Policy percent, i.e. what percent of mail stream to apply the published policy to.

percent = None
Long format accessor for *pct*

policy = None
Long format accessor for *p*

report_format = None
Long format accessor for *rf*

report_interval = None
Long format accessor for *ri*

report_uri_aggregate = None
Long format accessor for *rua*

report_uri_forensic = None
Long format accessor for *ruf*

rf = None
Preferred report format

ri = None
Preferred report interval

rua = None
Aggregate report delivery URI

ruf = None
Forensic report delivery URI

sp = None
Sub domain policy

subdomain_policy = None
Long format accessor for *sp*

v = None
DMARC version

version = None
Long format accessor for *v*

1.7 dmarcap.record module

dmarcap/record.py - DMARC aggregate report RecordType representation. Ref. https://tools.ietf.org/html/rfc7489#appendix-C

class dmarcap.record.**Record**
Bases: future.types.newobject.newobject

Representation of an aggregate report record

auth_results = None
Message *AuthResults*

count = None
Number of messages received from this IP

identifiers = None
Message or SMTP *Identifiers*

policy_evaluated = None
Message *PolicyEvaluated*

source_ip = None
IP traffic source

1.8 dmarcap.report module

dmarclib/report.py - DMARC aggregate report representation. Ref. https://tools.ietf.org/html/rfc7489#appendix-C

class dmarcap.report.**Report**
Bases: future.types.newobject.newobject

DMARC aggregate report representation

dmarc_failures()
Returns a list of failed *Record*

meta_data = None
Aggregate report *MetaData*. Contains information about the reporting organization and the report range.

policy_published = None
Aggregate report *PolicyPublished*. Contains the policy and reporting values published in DNS by the domain owner. These were the policies used to evaluate incoming mail.

records = None
List of aggregate report *Record*. Contains all records from the aggregate report.

CHAPTER 2

Indices and tables

- genindex
- modindex
- search

Python Module Index

d

Index

M

O

P

R

S

T

V