

## DMARC Report

Processed 46,983,276 massdns result reports (ndjson lines). This is the baseline for all sum values below. Number of unique domains is 11,557,069.

### DNS resolver protocol usage

Shows which network protocol was used to communicate with the DNS resolver.

Protocol	Total count	Relative percentage
TCP	266,487	0.57%
UDP	46,589,732	99.43%
SUM	46,856,219	99.73%

### DNS resolver error

Shows the distribution of DNS resolver errors encountered.

Error	Total count	Relative percentage
No error	46,856,219	99.73%
TIMEOUT	127,057	0.27%
SUM	46,983,276	100.00%

### DNS resolver response status codes

Shows the distribution of response codes, excluding DNS communication errors like timeouts.

RCODE	Total count	Relative percentage
NOERROR	38,943,867	83.11%
NXDOMAIN	7,002,527	14.94%
REFUSED	693,133	1.48%
SERVFAIL	216,691	0.46%
YXDOMAIN	1	0.00%
SUM	46,856,219	99.73%

### DNS request type statistics

Shows how often each DNS request type (resource record type) was requested. In the data collection, mainly MX and TXT records were requested, A and AAAA excluded as they are not directly relevant for mail.

Type of RR	Total count	Relative percentage
MX	11,742,069	24.99%
NS	11,742,069	24.99%
TXT	23,499,138	50.02%
SUM	46,983,276	100.00%

### DNS flags rd and ra

Shows which DNS flags were set in the resolver responses: Recursion Desired, indicates if the client means a recursive query and Recursion Available, in a response, indicates if the replying DNS server supports recursion.

DNS Flag	Total count	Relative percentage
ra	46,856,028	50.00%
rd	46,856,219	50.00%
SUM	93,712,247	199.46%

### DNS response number of answers

Shows how many different answers were received in the responses. These may be “answer” sections, “additional” sections or “authority” sections.

Number of Answers	Total count	Relative percentage
0	573,875	1.22%
1	44,359,473	94.67%
2	1,856,842	3.96%
3	66,029	0.14%
SUM	46,856,219	99.73%

### DNS response answer section types

Shows how many different section types were received in the responses. There are “answer”, “additional” and “authority” sections.

Types of Answer Sections	Total count	Relative percentage
additional	2,070,380	4.29%
answers	28,996,114	60.07%
authorities	17,204,750	35.64%
SUM	48,271,244	102.74%

## DNS response data types statistics

Shows the breakdown of different data types included in each response.

Response Data Type	Total count	Relative percentage
A	3,436,214	4.50%
AAAA	1,129,112	1.48%
CNAME	369,120	0.48%
DNAME	49	0.00%
MX	13,476,020	17.64%
NS	29,467,423	38.58%
RP	2	0.00%
SOA	16,904,034	22.13%
TLSA	168	0.00%
TXT	11,603,807	15.19%
SUM	76,385,949	162.58%

## DNS response data class statistics

Shows the breakdown of DNS classes for the response data.

Response Data Class	Total count	Relative percentage
IN	76,385,949	100.00%
SUM	76,385,949	162.58%

## DNS CNAME redirect distribution

Shows various statistical information about the number of DNS CNAME responses, including redirects. Each CNAME response is counted separately.

Statistic	Value
Count of data points	354,775
Mean	1.04
Median	1.00
Standard deviation	0.25
Variance	0.06
Mode	1
1% Percentile	1
10% Percentile	1
90% Percentile	1
99% Percentile	2
Max Count	343686
Min Count	1

Statistic	Value
Max Value	7
Min Value	1

### DNS answer data length distribution

Shows various statistical information about the number of DNS answer in a DNS response. Each answer is counted separately. An answer consists of resource record (RR) fields. Usually 1 answer is expected, as only one RR Type is requested, but CNAMEs or other records may be included. This data includes all DNS requests done.

Statistic	Value
Count of data points	48,271,244
Mean	1.58
Median	1.00
Standard deviation	1.09
Variance	1.19
Mode	1
1% Percentile	1
10% Percentile	1
90% Percentile	3
99% Percentile	5
Max Count	31716725
Min Count	1
Max Value	185
Min Value	1

### DNS Count of responses of type “answer”

Shows various statistical information about the number of DNS answers in a DNS response of section type “answer” only. Each answer is counted separately. An answer consists of resource record (RR) fields. Usually 1 answer is expected, as only one RR Type is requested, but CNAMEs or other records may be included. This data includes all DNS requests done.

Statistic	Value
Count of data points	28,996,114
Mean	1.84
Median	2.00
Standard deviation	1.14
Variance	1.29

Statistic	Value
Mode	1
1% Percentile	1
10% Percentile	1
90% Percentile	4
99% Percentile	4
Max Count	13891411
Min Count	1
Max Value	185
Min Value	1

### DNS Count of responses of type “authorities”

Shows various statistical information about the number of DNS answers in a DNS response of section type “authorities” only. Each answer is counted separately. An answer consists of resource record (RR) fields. Usually no answer is expected, as only one RR Type is requested, but DNS servers may respond with additional information.

Statistic	Value
Count of data points	17,204,750
Mean	1.03
Median	1.00
Standard deviation	0.21
Variance	0.04
Mode	1
1% Percentile	1
10% Percentile	1
90% Percentile	1
99% Percentile	2
Max Count	16904072
Min Count	1
Max Value	12
Min Value	1

### DNS Count of responses of type “additional”

Shows various statistical information about the number of DNS answers in a DNS response of section type “additional” only. Each answer is counted separately. An answer consists of resource record (RR) fields. Usually no answer is expected, as only one RR Type is requested, but DNS servers may respond with additional information.

Statistic	Value
Count of data points	2,070,380
Mean	2.54
Median	2.00
Standard deviation	2.20
Variance	4.83
Mode	1
1% Percentile	1
10% Percentile	1
90% Percentile	6
99% Percentile	12
Max Count	921242
Min Count	1
Max Value	23
Min Value	1

### DNS TTL of response items distribution

Shows various statistical information about the time-to-live (TTL) of the DNS responses. The TTL is the time in seconds that a DNS server has cached the data for. This data includes all DNS requests done.

Statistic	Value
Count of data points	11,266,284
Mean	12346.90
Median	3600.00
Standard deviation	30654.02
Variance	939668811.47
Mode	3600
1% Percentile	60
10% Percentile	287
90% Percentile	43200
99% Percentile	86400
Max Count	5608735
Min Count	1
Max Value	36003600
Min Value	0

### DNS Response data length of each answer item distribution

Shows various statistical information about the length of data responses, also known as RDATA. This field contains the actual data of the DNS record and has a variable length, as per RDLENGTH. Especially TXT answers may increase this value significantly. This data includes all DNS requests done.

Statistic	Value
Count of data points	76,385,949
Mean	35.31
Median	20.00
Standard deviation	29.59
Variance	875.49
Mode	18
1% Percentile	11
10% Percentile	13
90% Percentile	75
99% Percentile	162
Max Count	11079001
Min Count	1
Max Value	17424
Min Value	0

### DNS error per [org, sub] domain

Shows the DNS errors of all responses grouped by domain.

PASS	NXDOMAIN	ERROR	TIMEOUT	Count	Percentage
✓	✓	✓	✓	1,885	0.02%
✓	✓	✓	✗	164,741	1.43%
✓	✓	✓	-	166,626	1.44%
✓	✓	✗	✓	13,772	0.12%
✓	✓	✗	✗	3,861,658	33.41%
✓	✓	✗	-	3,875,430	33.53%
✓	✓	-	✓	15,657	0.14%
✓	✓	-	✗	4,026,399	34.84%
✓	✓	-	-	4,042,056	34.97%
✓	✗	✓	✓	8,017	0.07%
✓	✗	✓	✗	460,439	3.98%
✓	✗	✓	-	468,456	4.05%
✓	✗	✗	✓	43,002	0.37%
✓	✗	✗	✗	6,230,983	53.91%
✓	✗	✗	-	6,273,985	54.29%
✓	✗	-	✓	51,019	0.44%
✓	✗	-	✗	6,691,422	57.90%
✓	✗	-	-	6,742,441	58.34%
✓	-	✓	✓	9,902	0.09%
✓	-	✓	✗	625,180	5.41%
✓	-	✓	-	635,082	5.50%
✓	-	✗	✓	56,774	0.49%
✓	-	✗	✗	10,092,641	87.33%

PASS	NXDOMAIN	ERROR	TIMEOUT	Count	Percentage
✓	-	✗	-	10,149,415	87.82%
✓	-	-	✓	66,676	0.58%
✓	-	-	✗	10,717,821	92.74%
✓	-	-	-	10,784,497	93.32%
✗	✓	✓	✓	530	0.00%
✗	✓	✓	✗	40,264	0.35%
✗	✓	✓	-	40,794	0.35%
✗	✓	✗	✓	3,272	0.03%
✗	✓	✗	✗	677,696	5.86%
✗	✓	✗	-	680,968	5.89%
✗	✓	-	✓	3,802	0.03%
✗	✓	-	✗	717,960	6.21%
✗	✓	-	-	721,762	6.25%
✗	✗	✓	✓	16,810	0.15%
✗	✗	✓	✗	30,098	0.26%
✗	✗	✓	-	46,908	0.41%
✗	✗	✗	✓	3,902	0.03%
✗	✗	✗	✗	0	0.00%
✗	✗	✗	-	3,902	0.03%
✗	✗	-	✓	20,712	0.18%
✗	✗	-	✗	30,098	0.26%
✗	✗	-	-	50,810	0.44%
✗	-	✓	✓	17,340	0.15%
✗	-	✓	✗	70,362	0.61%
✗	-	✓	-	87,702	0.76%
✗	-	✗	✓	7,174	0.06%
✗	-	✗	✗	677,696	5.86%
✗	-	✗	-	684,870	5.93%
✗	-	-	✓	24,514	0.21%
✗	-	-	✗	748,058	6.47%
✗	-	-	-	772,572	6.68%
-	✓	✓	✓	2,415	0.02%
-	✓	✓	✗	205,005	1.77%
-	✓	✓	-	207,420	1.79%
-	✓	✗	✓	17,044	0.15%
-	✓	✗	✗	4,539,354	39.28%
-	✓	✗	-	4,556,398	39.43%
-	✓	-	✓	19,459	0.17%
-	✓	-	✗	4,744,359	41.05%
-	✓	-	-	4,763,818	41.22%
-	✗	✓	✓	24,827	0.21%
-	✗	✓	✗	490,537	4.24%
-	✗	✓	-	515,364	4.46%
-	✗	✗	✓	46,904	0.41%

PASS	NXDOMAIN	ERROR	TIMEOUT	Count	Percentage
-	✗	✗	✗	6,230,983	53.91%
-	✗	✗	-	6,277,887	54.32%
-	✗	-	✓	71,731	0.62%
-	✗	-	✗	6,721,520	58.16%
-	✗	-	-	6,793,251	58.78%
-	-	✓	✓	27,242	0.24%
-	-	✓	✗	695,542	6.02%
-	-	✓	-	722,784	6.25%
-	-	✗	✓	63,948	0.55%
-	-	✗	✗	10,770,337	93.19%
-	-	✗	-	10,834,285	93.75%
-	-	-	✓	91,190	0.79%
-	-	-	✗	11,465,879	99.21%
-	-	-	-	11,557,069	100.00%

## DNS timeout error per domain

Restricted to TXT requests

PASS	TIMEOUT	Count	Percentage
✓	✓	2,380	0.01%
✓	✗	46,101,740	99.73%
✓	-	46,104,120	99.73%
✗	✓	124,156	0.27%
✗	✗	0	0.00%
✗	-	124,156	0.27%
-	✓	126,536	0.27%
-	✗	46,101,740	99.73%
-	-	46,228,276	100.00%

## DNS Mail configuration statistics

Shows the distribution of different mail configuration combinations. TXT means that at least one TXT record exists at `_dmarc.domain.de`. DMARC means that at least one TXT record was found, which contains the string “dmarc” (potential dmarc record). Valid means that the record is indeed a valid DMARC record. ✓ means applicable. ✗ means not applicable. - means not set (don't care)

TXT	DMARC	Valid	Count	Percentage
✓	✓	✓	1,627,705	14.08%
✓	✓	✗	6,933	0.06%

TXT	DMARC	Valid	Count	Percentage
✓	✓	-	1,634,638	14.14%
✓	✗	✓	0	0.00%
✓	✗	✗	901,099	7.80%
✓	✗	-	901,099	7.80%
✓	-	✓	1,627,705	14.08%
✓	-	✗	908,032	7.86%
✓	-	-	2,535,737	21.94%
✗	✓	✓	0	0.00%
✗	✓	✗	0	0.00%
✗	✓	-	0	0.00%
✗	✗	✓	0	0.00%
✗	✗	✗	9,021,332	78.06%
✗	✗	-	9,021,332	78.06%
✗	-	✓	0	0.00%
✗	-	✗	9,021,332	78.06%
✗	-	-	9,021,332	78.06%
-	✓	✓	1,627,705	14.08%
-	✓	✗	6,933	0.06%
-	✓	-	1,634,638	14.14%
-	✗	✓	0	0.00%
-	✗	✗	9,922,431	85.86%
-	✗	-	9,922,431	85.86%
-	-	✓	1,627,705	14.08%
-	-	✗	9,929,364	85.92%
-	-	-	11,557,069	100.00%

### MX and valid dmarc on domain

Shows the distribution of different DNS configuration combinations. MX means that the domain has at least one MX record, DMARC means that a DMARC record is present and valid. ✓ means applicable. ✗ means not applicable. - means not set (don't care)

MX	DMARC	Count	Percentage
✓	✓	1,559,629	13.50%
✓	✗	7,405,449	64.08%
✓	-	8,965,078	77.57%
✗	✓	68,076	0.59%
✗	✗	2,523,915	21.84%
✗	-	2,591,991	22.43%
-	✓	1,627,705	14.08%
-	✗	9,929,364	85.92%
-	-	11,557,069	100.00%

MX	DMARC	Count	Percentage
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### Mail DNS configuration statistics

Shows the distribution of different DNS mail configuration combinations. MX means that the domain has at least one MX record, SPF means that a SPF record is present and DMARC means that a DMARC record is present. ✓ means applicable. ✗ means not applicable. - means not set (don't care)

MX	SPF	DMARC	Count	Percentage
✓	✓	✓	1,077,784	9.33%
✓	✓	✗	4,776,255	41.33%
✓	✓	-	5,854,039	50.65%
✓	✗	✓	481,845	4.17%
✓	✗	✗	2,629,194	22.75%
✓	✗	-	3,111,039	26.92%
✓	-	✓	1,559,629	13.50%
✓	-	✗	7,405,449	64.08%
✓	-	-	8,965,078	77.57%
✗	✓	✓	45,565	0.39%
✗	✓	✗	442,498	3.83%
✗	✓	-	488,063	4.22%
✗	✗	✓	22,511	0.19%
✗	✗	✗	2,081,417	18.01%
✗	✗	-	2,103,928	18.20%
✗	-	✓	68,076	0.59%
✗	-	✗	2,523,915	21.84%
✗	-	-	2,591,991	22.43%
-	✓	✓	1,123,349	9.72%
-	✓	✗	5,218,753	45.16%
-	✓	-	6,342,102	54.88%
-	✗	✓	504,356	4.36%
-	✗	✗	4,710,611	40.76%
-	✗	-	5,214,967	45.12%
-	-	✓	1,627,705	14.08%
-	-	✗	9,929,364	85.92%
-	-	-	11,557,069	100.00%

### Likely DMARC record found

Shows how many potential DMARC records were found on the organizational domain (org) and also the correct subdomain \_\_dmarc (sub). The test checks if the word “dmarc” is included in any of the TXT records. This does not mean

that the record is valid, only that it is likely to be valid. ✓ means applicable. ✗ means not applicable. - means not set (don't care)

Sub	Org	Count	Percentage
✓	✓	4,559	0.04%
✓	✗	1,630,079	14.10%
✓	-	1,634,638	14.14%
✗	✓	8,653	0.07%
✗	✗	9,913,778	85.78%
✗	-	9,922,431	85.86%
-	✓	13,212	0.11%
-	✗	11,543,857	99.89%
-	-	11,557,069	100.00%

### Valid DMARC record found

Shows how many valid DMARC records were found on the organizational domain (org) and also the correct subdomain \_dmarc (sub). It is expected to have the DMARC record only on the correct subdomain. ✓ means applicable. ✗ means not applicable. - means not set (don't care)

Sub	Org	Count	Percentage
✓	✓	2,736	0.02%
✓	✗	1,631,492	14.12%
✓	-	1,634,228	14.14%
✗	✓	7,987	0.07%
✗	✗	9,914,854	85.79%
✗	-	9,922,841	85.86%
-	✓	10,723	0.09%
-	✗	11,546,346	99.91%
-	-	11,557,069	100.00%

### DMARC request policy

Shows which DMARC policies are requested. The sum percentage is relative to all domains queried so not all domains have a valid DMARC record.

DMARC Policy	Total count	Relative percentage
none	786,091	47.05%
quarantine	237,056	14.19%
reject	647,643	38.76%
SUM	1,670,790	14.46%

## DMARC sampling rate validity

Shows how many DMARC pct values are valid. This refers to the percentage of messages subjected to DMARC policy. Useful for incremental rollout of the policy.

DMARC Pct Valid	Total count	Relative percentage
Fail	62	0.03%
Pass	184,126	99.97%
SUM	184,188	1.59%

## DMARC sampling rate explicitness

Shows how many DMARC pct values are set. Default value is 100 but is optional. This refers to the percentage of messages subjected to DMARC policy. Useful for incremental rollout of the policy.

DMARC Pct explicit	Total count	Relative percentage
Default	1,486,602	88.98%
Explicit	184,188	11.02%
SUM	1,670,790	14.46%

## DMARC sampling rate

Shows various statistical information about the DMARC sampling rate (pct). This refers to the percentage of messages subjected to DMARC policy. Useful for incremental rollout of the policy. Permitted values are 0 to 100 as per specification.

Statistic	Value
Count of data points	184,126
Mean	89.21
Median	100.00
Standard deviation	24.18
Variance	584.44
Mode	100
1% Percentile	5
10% Percentile	50
90% Percentile	100
99% Percentile	100
Max Count	150172
Min Count	1
Max Value	100

Statistic	Value
Min Value	0

### DMARC adkim valid

Shows if values set for adkim key are valid. Indicates DKIM Identifier Alignment mode.

DMARC adkim valid	Total count	Relative percentage
Fail	25	0.01%
Pass	188,407	99.99%
SUM	188,432	1.63%

### DMARC adkim explicit

Shows if values set for adkim key are explicit. Indicates DKIM Identifier Alignment mode. r = relaxed, s = strict. Default value is r.

DMARC adkim explicit	Total count	Relative percentage
Default	1,482,358	88.72%
Explicit	188,432	11.28%
SUM	1,670,790	14.46%

### DMARC adkim

Shows which values are set for adkim key. Indicates DKIM Identifier Alignment mode. r = relaxed, s = strict.

DMARC value of adkim key	Total count	Relative percentage
r	94,790	50.31%
s	93,617	49.69%
SUM	188,407	1.63%

### DMARC aspf valid

Shows if values set for aspf key are valid. Indicates SPF Identifier Alignment mode. r = relaxed, s = strict. Default value is r.

DMARC aspf valid	Total count	Relative percentage
Fail	118	0.06%

DMARC aspf valid	Total count	Relative percentage
Pass	198,573	99.94%
SUM	198,691	1.72%

### DMARC aspf explicit

Shows if values set for aspf key are explicit. Indicates SPF Identifier Alignment mode. r = relaxed, s = strict. Default value is r.

DMARC aspf explicit	Total count	Relative percentage
Default	1,472,099	88.11%
Explicit	198,691	11.89%
SUM	1,670,790	14.46%

### DMARC aspf

Shows which values are set for aspf key. Indicates SPF Identifier Alignment mode. r = relaxed, s = strict. Default value is r.

DMARC value of aspf key	Total count	Relative percentage
r	102,168	51.45%
s	96,405	48.55%
SUM	198,573	1.72%

### DMARC adkim and aspf explicit statistics

Shows the distribution of different DMARC configuration combinations. adkim and aspf are explicit if the value is set to r or s. Otherwise, the value is set to none. This is the default value. ✓ means applicable. ✗ means not applicable. - means not set (don't care)

adkim explicit	aspf explicit	Count	Percentage
✓	✓	182,151	1.58%
✓	✗	2,713	0.02%
✓	-	184,864	1.60%
✗	✓	12,702	0.11%
✗	✗	11,359,503	98.29%
✗	-	11,372,205	98.40%
-	✓	194,853	1.69%
-	✗	11,362,216	98.31%
-	-	11,557,069	100.00%

## DMARC adkim and aspf valid statistics

Shows the distribution of different DMARC configuration combinations. adkim and aspf are valid if the value is set to r or s. Otherwise, the value is set to none. This is the default value. ✓ means applicable. ✗ means not applicable. - means not set (don't care)

aspf valid	adkim valid	Count	Percentage
✓	✓	182,036	1.58%
✓	✗	12,702	0.11%
✓	-	194,738	1.69%
✗	✓	2,804	0.02%
✗	✗	11,359,527	98.29%
✗	-	11,362,331	98.31%
-	✓	184,840	1.60%
-	✗	11,372,229	98.40%
-	-	11,557,069	100.00%

## DMARC rf valid

Shows if values set for rf key are valid. Format(s) to be used for failure reports. For this version, only “afrf” (Auth Failure Reporting Format) is supported.

DMARC rf valid	Total count	Relative percentage
Fail	140	0.41%
Pass	33,724	99.59%
SUM	33,864	0.29%

## DMARC rf explicit

Shows if values set rf aspf key are explicit. Format(s) to be used for failure reports. For this version, only “afrf” (Auth Failure Reporting Format) is supported.

DMARC rf explicit	Total count	Relative percentage
Default	1,636,926	97.97%
Explicit	33,864	2.03%
SUM	1,670,790	14.46%

## DMARC rf

Shows which values are set for rf key. Format(s) to be used for failure reports. For this version, only “afrf” (Auth Failure Reporting Format) is supported.

DMARC value of rf key	Total count	Relative percentage
afrf	33,724	100.00%
SUM	33,724	0.29%

## DMARC ri distribution

Shows various statistical information about the DMARC ri distribution key. Interval (in seconds) between aggregate reports. Daily (86400 seconds) is default; other intervals are on a best-effort basis.

Statistic	Value
Count of data points	50,601
Mean	174561.32
Median	86400.00
Standard deviation	9566046.29
Variance	91509241657791.08
Mode	86400
1% Percentile	3600
10% Percentile	3600
90% Percentile	86400
99% Percentile	604800
Max Count	40570
Min Count	1
Max Value	2147483647
Min Value	0

## DMARC ri valid

Shows if values set for ri key are valid. Interval (in seconds) between aggregate reports. Daily (86400 seconds) is default; other intervals are on a best-effort basis.

DMARC ri valid	Total count	Relative percentage
Fail	24	0.05%
Pass	50,601	99.95%
SUM	50,625	0.44%

## DMARC ri explicit

Shows if values set for ri aspf key are explicit. Interval (in seconds) between aggregate reports. Daily (86400 seconds) is default; other intervals are on a best-effort basis.

DMARC ri explicit	Total count	Relative percentage
Default	1,620,165	96.97%
Explicit	50,625	3.03%
SUM	1,670,790	14.46%

### DMARC sp statistics

Shows which values are set for sp key. Requested policy for subdomains. If absent, subdomains follow the p policy. As no DMARC policy of a subdomain was requested in the query, no value should be set for this key. A default value does not exist, so any value given is explicit. If default is given, this refers to the case where no policy is set for the domain (as expected).

DMARC value of sp key	Total count	Relative percentage
none	82,841	60.28%
quarantine	19,453	14.15%
reject	35,139	25.57%
SUM	137,433	1.19%

### DMARC sp valid statistics

Shows sp values set for sp key are valid. Requested policy for subdomains. If absent, subdomains follow the p policy. As no DMARC policy of a subdomain was requested in the query, no value should be set for this key. A default value does not exist, so any value given is explicit. If default is given, this refers to the case where no policy is set for the domain (as expected).

DMARC sp valid	Total count	Relative percentage
Fail	51	0.04%
Pass	137,433	99.96%
SUM	137,484	1.19%

### DMARC sp explicit statistics

Shows if values set sp aspf key are explicit. Requested policy for subdomains. If absent, subdomains follow the p policy. As no DMARC policy of a subdomain was requested in the query, no value should be set for this key. A default value does not exist, so any value given is explicit. If default is given, this refers to the case where no policy is set for the domain (as expected).

DMARC sp explicit	Total count	Relative percentage
Default	1,533,306	91.77%
Explicit	137,484	8.23%
SUM	1,670,790	14.46%

## Valid Mail authentication records found

Shows how many valid mail configurations were found. ✓ means applicable. ✗ means not applicable. - means not set (don't care)

MX	SPF	DMARC	Count	Percentage
✓	✓	✓	388,818	3.36%
✓	✓	✗	5,465,221	47.29%
✓	✓	-	5,854,039	50.65%
✓	✗	✓	434,602	3.76%
✓	✗	✗	2,676,437	23.16%
✓	✗	-	3,111,039	26.92%
✓	-	✓	823,420	7.12%
✓	-	✗	8,141,658	70.45%
✓	-	-	8,965,078	77.57%
✗	✓	✓	31,443	0.27%
✗	✓	✗	456,620	3.95%
✗	✓	-	488,063	4.22%
✗	✗	✓	13,557	0.12%
✗	✗	✗	2,090,371	18.09%
✗	✗	-	2,103,928	18.20%
✗	-	✓	45,000	0.39%
✗	-	✗	2,546,991	22.04%
✗	-	-	2,591,991	22.43%
-	✓	✓	420,261	3.64%
-	✓	✗	5,921,841	51.24%
-	✓	-	6,342,102	54.88%
-	✗	✓	448,159	3.88%
-	✗	✗	4,766,808	41.25%
-	✗	-	5,214,967	45.12%
-	-	✓	868,420	7.51%
-	-	✗	10,688,649	92.49%
-	-	-	11,557,069	100.00%

## SPF all mechanism

Shows how many different SPF mechanisms were found in the responses. The sum percentage is relative to all successful domain queries.

Mechanism	Total count	Relative percentage
+all	1,155	0.02%
-all	2,188,291	33.90%
?all	830,324	12.86%
other	98,095	1.52%
~all	3,336,625	51.69%
SUM	6,454,490	97.51%

### Top 10 reporting DMARC domains

Domain	Count
proofpoint.com	19854
brevo.com	19678
dmARC-report.com	16600
vali.email	12634
mxservice.de	10686
mydo.space	9606
cloudflare.net	6852
mailinblue.com	6500
dmARC-analyzer.com	6315
fizon.de	4536