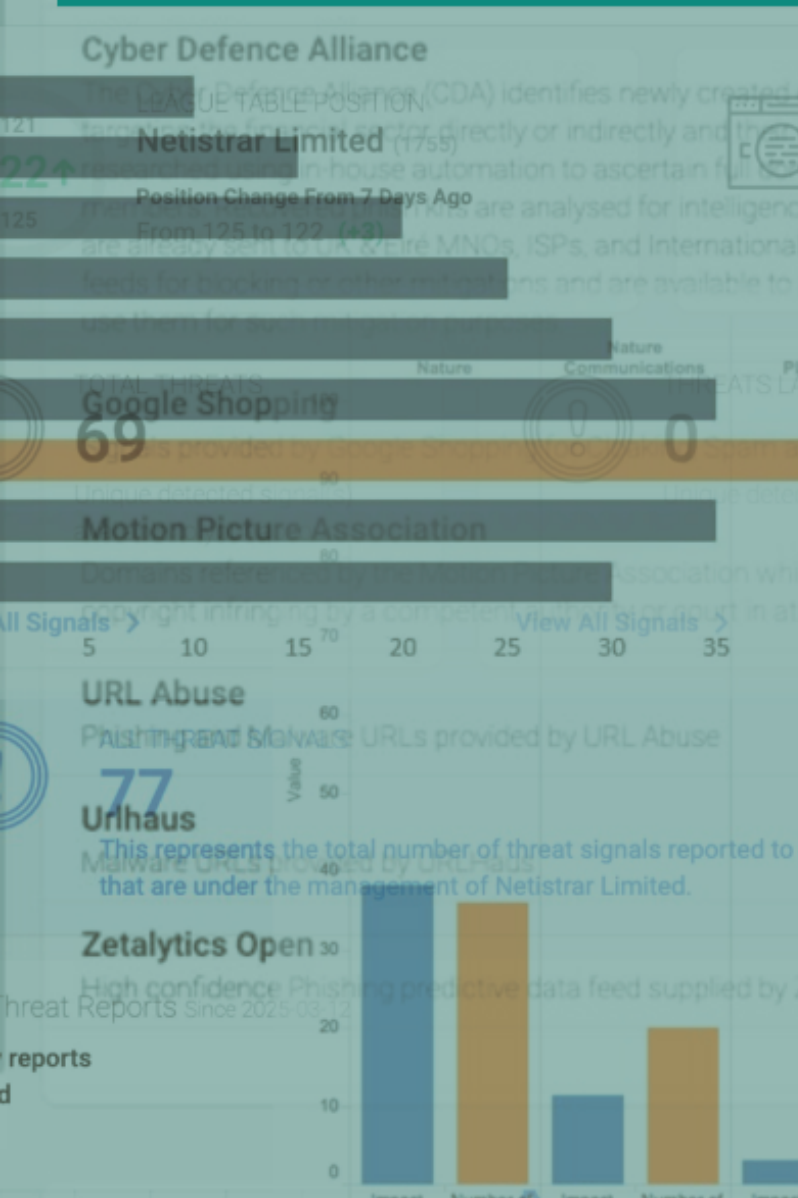




**DNS
RESEARCH
FEDERATION**

2025 Q2 League Tables Report (ASNs, TLDs and Registrars)



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Introduction

The DNS Research Federation (DNSRF) is a non-for-profit organisation that provides objective analysis and data insights on the Domain Name System (DNS). It aims to increase understanding around how the DNS affects cybercrime, cybersecurity, policy and technical standards by improving access to data and producing quality research outputs.

The DNSRF have been creating League Tables which rank domain name registrars, top-level domain (TLD) providers and Autonomous System Numbers (ASNs) based on their relative levels of online abuse reports. The TLD League Tables have been publicly available on the DNSRF website since 2023, the Registrar League Tables were launched in January 2025 and, this quarter, the ASN League Tables were released.

The aim of the League Tables is to encourage TLDs, registrars and ASNs to increase their mitigation rates as well as implement stronger policies on internet abuse. In doing so, DNSRF hopes to minimise the financial and emotional distress inflicted on the victims of scams and fraud. The League Tables can also assist businesses, individuals and policy makers in making informed decisions about domain registrations, as well as raising awareness around DNS abuse.

This report aims to explain the recent improvements and changes made to methodology of the League Tables and give an overview of some of the recent trends observed in the DNS landscape.

Revised Methodology

This quarter, the DNSRF revised the methodology behind all existing League Tables. The new methodology aims to give a more accurate depiction of the levels of online abuse across the DNS ecosystem. The methodology has been revised to facilitate this in two ways:

Firstly, DNSRF has increased the size of its dataset of reported online abuse in order to build a better picture of where abuse occurs. Previously, reports were obtained from 5 different third-party sources. The League Tables have now been updated to use live reports (also known as signals) received via the Global Signal Exchange (GSE). The GSE is a centralised clearinghouse that merges as many online scam and fraud data sources as possible. This real time threat intelligence provides invaluable data insights around internet abuse. At present, the GSE data being used by the League Tables is collated from 18 different providers. As the GSE was only released in January 2025, it is expected that the number of data providers and sources will only continue to grow, and therefore so will the size of the dataset feeding into the League Tables. Consequently, the accuracy of the League Tables should improve.

The second improvement to the League Tables involves looking at a 30 day period instead of 365 days. The average size of an entity, in terms of number of domains, is now calculated

by averaging totals from the last 30 days. Similarly, we now only look at reports received in the last 30 days. This allows the League Tables to more rapidly reflect changes implemented by entities, allowing those actively working to reduce their levels of digital abuse and see the impact of these efforts as they move up the League Table.

ASN League Table Methodology

Following the changes made to the original League Table methodology, the methodology for the newly released ASN League Table is outlined below.

The ASN League Tables are based upon hostname, url and domain reports received via the GSE in the last 30 days. After deduplicating these reports, we calculate the total number of uniquely reported domains associated with each ASN. This means that if the same domain is reported multiple times, it is only counted as one, single, reported domain.

From these metrics, we calculate a **report rate for each ASN** by *dividing the number of unique reported domains by the average number of domains under that ASN*. This allows for comparison between differently sized ASNs. This average number of domains under each ASN is calculated through bulk analysis of active registered domains obtained from additions and deletions observed within zone files published by ICANN. For each domain, where a DNS A record exists an IP address can be resolved and from this IP address an ASN can be looked up (via BGP data and RIR records) to produce an ASN for the domain name. The number of domain names for each ASN can then be counted daily to produce a good approximation for the total number of domain names being hosted under each ASN - from these daily totals we can then obtain an average totals per ASN for the last 30 days to match the time window for reports.

We use the report rate of an ASN to evaluate its position in the League Table, relative to others. Those with the lowest report rates have the least domain reports relative to their size and so are higher up the League Table. ASNs move up and down the League Table over time as the landscape changes and more domain based reports are received by the GSE. The report rates for each ASN are tracked over time.

Unlike the Registrar and TLD League Tables which show report rates for all Registrars and TLDs, the ASN League Tables only show the report rates of ASNs which have had at least one domain based report in the last 30 days. If an ASN is not in the League Table then no data around online abuse levels is available for them. This does not necessarily mean that there is no online abuse under that ASN, only that they have not had any domain based abuse reported to the GSE in the last 30 days.

In the ASN Tier One League Table, we only consider those ASNs with an average number of domains greater than 50,000 (and at least one reported domain!) and in the Global Regions Table, ASNs are sorted into geographical regions based on where their respective RIRs have allocated them.

Initial Findings on The ASN League Tables

In this section, we will be looking at the Tier One League Table only, which considers ASNs with an average number of domains greater than 50,000. By looking at those with a large number of domains, this once again allows for a more fair comparison between larger entities.

ASNs with the Lowest Report Rates

Please keep in mind that although these are the ASNs with the lowest report rates, this table only includes ASNs with at least one report. It is likely that there are some ASNs with over 50,000 domains that would have report rates of 0%, due to the fact they do not have any reports.

View as at 25th June 2025:

 1 2	AS Number 1 2	AS Name 1 2	Country 1 2	Report Rate  1 2	Average Domains
1	139646	HKMTC-AS-AP	Hong Kong	0.0013	233903
2	14670	RIPE-14670	United Kingdom of Great Britain and Northern Ireland	0.0014	69322
3	53589	PLANETHOSTER-B	Canada	0.002	50868
4	140224	SGPL-AS-AP	Singapore	0.0052	287436
5	20738	GD-EMEA-DC-LD5	Germany	0.0063	222551
6	24446	INT-SGN-AS-AP	Australia	0.0073	54533
7	20940	AKAMAI-ASN1	Netherlands, Kingdom of the	0.0086	58312
8	19994	RACKSPACE	United States of America	0.0098	61168
9	29873	BIZLAND-SD	United States of America	0.0112	1399280
10	19574	CSC	United States of America	0.0113	504551

In the newly released ASN League Table, ASNs 139646 (HKMTC-AS-AP) and 14670 (RIPE-14670) were at the top of the League Table with report rates of 0.0013% and 0.0014% respectively. Although HKMTC-AS-AP had 3 uniquely reported domains and RIPE-14670 only had 1 uniquely reported domain, HKMTC-AS-AP had a significantly larger number of average domains and so proportionally has a lower report rate.

ASNs with the Highest Report Rates

View as at 25th June 2025:

 TI	AS Number TI	AS Name TI	Country TI	Report Rate 	Average Domains
195	45753	NETSEC-HK	Hong Kong	1.025	164593
196	133618	TRELLIAN-AS-AP	Australia	1.0756	1166370
197	9294	GNETINC-AS-AP	United States of America	1.1775	50872
198	8100	ASN-QUADRANET-GLOBAL	United States of America	1.2821	100542
199	132203	TENCENT-NET-AP-CN	China	1.3525	362442
200	43350	NFORCE	Netherlands, Kingdom of the	1.7769	112836
201	398478	PEG-HK	United States of America	1.7904	161081
202	7029	WINDSTREAM	United States of America	2.1919	194942
203	30633	LEASEWEB-USA-WDC	United States of America	2.3331	229904
204	46475	LIMESTONENETWORKS	United States of America	4.711	132775

ASN 46475 (LIMESTONENETWORKS) was the ASN with the highest report rate in the last month at 4.71%. With 6,255 uniquely reported domains, LIMESTONENETWORKS had a report rate significantly higher than any other ASN in the Tier One League Table. ASN 30633 (LEASEWEB-USA-WDC) was the ASN with the second highest report rate at 2.33%. Despite having an average number of domains less than ALEASEWEB-USA-WDC, LIMESTONENETWORKS had a report rate over double that of ALEASEWEB-USA-WDC. The four ASNs with the highest report rates in the Tier One League Table were based in the USA, and are affiliated with ARIN.

Updates on The Registrar League Tables

In this section, we will be looking at the Tier One League Table only, which considers Registrars with an average number of domains greater than 50,000. By looking at those with a large number of domains, this allows for a more fair comparison between larger entities.

Registrars with the Lowest Report Rates

View as at 25th June 2025:

 TI	Registrar TI	Country TI	Report Rate 	Average Domains
1	Alpine Domains Inc.	Canada	0	81084
1	Name Share, Inc.	United States of America	0	87276
2	Annulet LLC	United States of America	0.0005	571326
3	Stichting Registrar of Last Resort Foundation	Netherlands, Kingdom of the	0.002	251235
4	Abion AB	Sweden	0.0059	101265
5	CSC Corporate Domains, Inc.	United States of America	0.0079	1445990
6	Japan Registry Services Co., Ltd.	Japan	0.0081	393200
7	Hostopia Canada Corp	Canada	0.0099	80992
8	Namebay SAM	Monaco	0.0107	93520
9	DomainSpot LLC	United States of America	0.0132	144363
10	COREhub, S.R.L.	Spain	0.0142	119926

This month both Alpine Domains and NameShare had report rates of 0%! These registrars featured in the top 10 of the Tier One League before the methodology change and have been able to maintain very low levels of domain based abuse. Annulet has also been able to sustain a low report rate, attaining a report rate of 0.0005% this month with only 3 of their 571,326 registered domains being reported for online abuse.

Registrars with the Highest Report Rates

View as at 25th June 2025:

	Registrar	Country	Report Rate	Average Domains
166	Jiangsu Bangning Science & technology Co. Ltd.	China	0.9001	186320
167	eName Technology Co., Ltd.	China	0.9293	411607
168	Hefei Juming Network Technology Co., Ltd	China	0.944	277555
169	Name SRS AB	Sweden	1.0187	330223
170	Dynadot Inc	United States of America	1.0375	5073300
171	Eranet International Limited	Hong Kong	1.3951	265145
172	Domain International Services Limited	China	3.6164	306964
173	Dominet (HK) Limited	Hong Kong	3.8505	766208
174	CommuniGal Communication Ltd.	Israel	3.9419	318575
175	NICENIC INTERNATIONAL GROUP CO., LIMITED	Hong Kong	5.5042	140839

Nicenic International Group was at the bottom of the League Table this month with 7,752 uniquely reported domains and a report rate of 5.50%. Dynadot, Dominet (HK) and Domain International Services were among the bottom 10 Tier One Registrars last quarter but have retained high report rates since the methodology change. An overwhelming proportion of the bottom 10 Tier One Registrars were based in Asia, with 8 out of the 10 being based in either Israel, Hong Kong or China.

Updates on The TLD League Tables

In this section, we will be looking at the Tier One League Table only, which considers TLDs with an average number of domains greater than 500,000. By looking at those with a large number of domains, this allows for a more fair comparison between larger entities.

TLDs with the Lowest Report Rates

View as at 25th June 2025:

 TLD 	Country 	Report Rate 	Avg Domains
1 AU	Australia	0.0061	4162210
2 GR	Greece	0.0063	525071
3 IR	Iran (Islamic Republic of)	0.0079	1385490
4 ES	Spain	0.0102	2105400
5 AT	Austria	0.0119	1475500
6 VN	Vietnam	0.012	534850
7 BR	Brazil	0.0175	4979720
8 NL	Netherlands	0.0204	5993890
9 EU	Belgium	0.0214	3622740
10 DK	Denmark	0.022	1302690

.au had the lowest report rate this month with 253 unique reports. With an average of 4,162,210 domains under management, its report rate was 0.0061%, placing it at the top of the Tier One League Table. .gr was not far behind with a report rate only 0.0002% higher. .gr has significantly less domains under management, only just qualifying for the Tier One table, with 525,071 domains. Despite having less reported domains than .au in raw totals, with only 33 reported domains in the last month, it placed just behind .au with proportionally more reports. Due to the more volatile and dynamic nature of the League Tables since the methodology revision, positions may be subject to more fluctuation on a monthly basis.

Registrars with the Highest Report Rates

View as at 25th June 2025:

 	TLD 	Country 	Report Rate 	Avg Domains 
53	STORE	Cayman Islands	0.6377	1829180
54	SITE	Cayman Islands	0.6541	1547340
55	XYZ	United States of America	0.6673	4460780
56	CLICK	Cayman Islands	0.8113	607638
57	PRO	United States of America	1.001	894972
58	CC	Australia	1.0033	1950740
59	SBS	Luxembourg	1.0768	882640
60	VIP	United States of America	1.1238	1320890
61	LIVE	United States of America	1.3007	562929
62	TOP	China	1.4529	4234270

Despite the methodology change, .top remained at the bottom of TLD League Table. This month .top had 61,520 uniquely reported domains. With an average of 4,234,270 domains under management, this resulted in a report rate of 1.45%. In fact, many of the TLDs with the highest report rates remained the same post methodology change with .click, .vip, .cc, .live, .pro and .xyz all remaining in the bottom 10 TLDs, with the highest report rates in the Tier One League Table. Interestingly, 3 out of the 4 Tier One TLDs with sponsoring organisations located in the Cayman Islands are among the bottom 10 TLDs with the highest report rates.