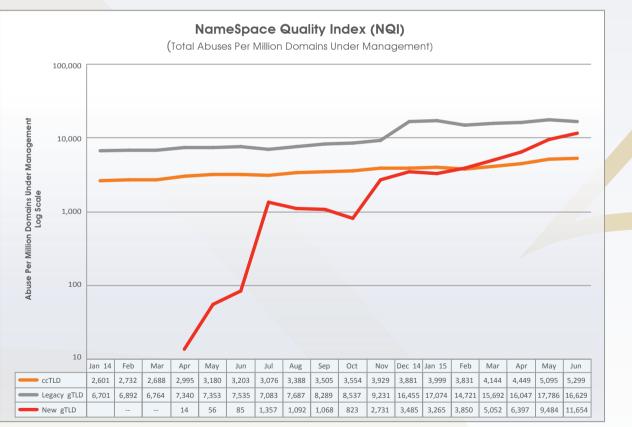
The NAMESENTRY Abuse Report

Abuse Detection and Mitigation Service

New gTLD State of Abuse - 2015

The Architelos NameSentrySM domain abuse monitoring, detection and mitigation service tracks abuse (phishing, malware, botnet C&C command-and-control, and spam) across all top-level domains (TLDs). The Internet now has almost 300 million domain names across more than 900 TLDs. In order to compare the different types of TLDs, we normalize the abuse data into the Architelos Namespace Quality Index (NQI). The NQI score is measured as abusive domains that are on our NameSentrySM subscribed blocklists per million domains in each registry. This allows us to compare abuse consistently across TLDs. This following graph shows the NQI score for the collective categories of country code Top Level Domains (ccTLDs), Legacy gTLDs, and New gTLDs (nTLDs). The top grey line is the NQI score for the aggregate of the 22 legacy gTLDs (.com, .net, .org, .biz, etc). The orange line is the NQI score for the aggregate of all 280+ ccTLDs. Finally, the red line is the NQI score for the aggregate of the 500+ new nTLDs. What is clear is that over the past 16 months abuse has found the new gTLDs and has grown in proportion to exceed that of ccTLDs and is approaching the levels of Legacy gTLDs. Within new gTLDs, spam comprises 99% of all reported abuses as compared to approximately 90% in ccTLDs and Legacy gTLDs. Therefore phishing, malware and botnet C&C activity in new gTLDs is ten-fold less than in ccTLD and Legacy gTLDs on proportion of domains under management.



Graph 1 - NameSpace Quality Index Comparison for ccTLD, gTLDs and new gTLDs from Jan 2014 to May 2015.



For more information: architelos.com/namesentry email info@architelos.com call 1.703.260.7315



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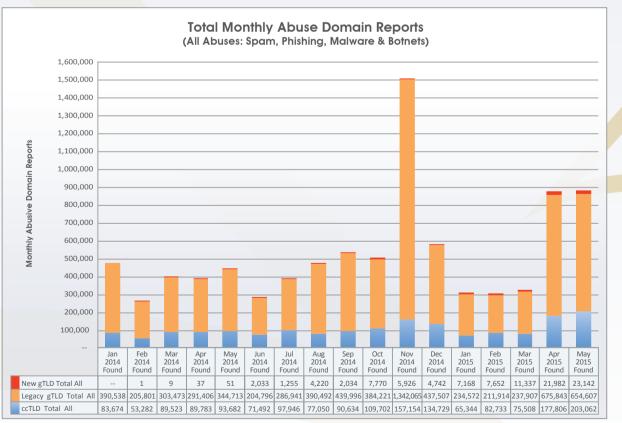
Internet State of Abuse - 2015 - continued

The May 2015 NQI score for all ccTLDs was 5,299 abusive domains per million domains under management. The new gTLD NQI score in May was 11,654 per million domains under management, or over 100% greater than the ccTLDs. The NQI score for the legacy gTLDs is approximately 16,500 per million over the past several months. This is over three times the average level of aggregate abuse in ccTLDs.

Abuses per Million DUM	NQI Rating	% of Abuse	% Clean
less than 100	Excellent	< 0.01%	> 99.9%
101 - 1,000	Good	0.01 – 0.1%	99.8% - 99.9%
1,001 - 10,000	Caution	.1 – 1.0%	99.0% - 99.8%
over 10,001	At Risk	Over 1%	< 99.0%

A Focus on Detection of Abuse

The following graph presents abuses found or detected each month broken out by type of TLD: ccTLD, legacy gTLD, and New gTLD. The table at the bottom shows the timeline of abuse growth in the overall new gTLD program. The first abuse was detected in February 2014 and has grown to over 23,000 abusive domains in May 2015.



Graph 2 - Comparison of Abuse by Type for new gTLDs, Legacy gTLDs and ccTLDs from Jan 2014 to May 2015.

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For more information: architelos.com/namesentry



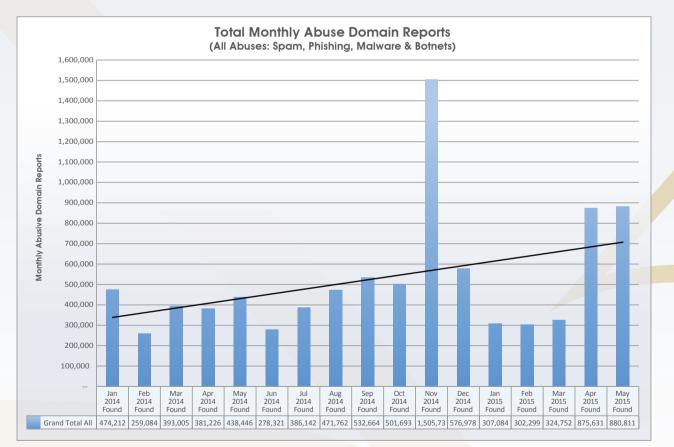
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A Focus on Detection of Abuse - continued

The chart below depicts total domain abuse newly found each month from January 2014 through May 2015. The found data is a subset of the total active abuses used in the NQI scoring in the prior graph. Using a linear trend line, new abuse reports have increased 100% over that time, from approximately 350,000 per month in January 2014 to more than 700,000 per month in May 2015. The profile indicates seasonal variations along with a substantial spike of spam abuse in late November into early December coinciding with the holiday season. For the first quarter of 2015 newly found abuse reports fell to about 300,000 per month. However, in April and May the abuse reports (mostly spam) increased substantially to over 850,000 per month. This represents a 100% increase over the same months in 2014 and is consistent with the overall trend of increasing abuse.

We have seen very slow growth in the overall domain market, and some legacy TLDs are flat or contracting. To spur growth some TLDs are providing aggressive discounting for the first time.



Graph 3 - Total Monthly Abuse across all TLDs from Jan 2014 to May 2015.





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The Progression of New gTLD Abuse

The following chart provides a breakout of the new gTLD abuses between phishing, malware, botnet C&C command-andcontrol domains, and spam. Spam has accounted for 99% of all new gTLD abuse reports since the inception of the program. The first spam report in a new gTLD was found in February 2014 followed by the first phishing in May and first malware detected in September 2014. We began tracking Botnet C&C abuse in January 2015. In ccTLD and legacy gTLDs spam comprises approximately 90% of all reported domains therefore the new gTLD program currently has substantially less phishing and malware than the mature legacy and ccTLD markets.



Graph 4 - new gTLDs with the most SPAM Abuses Reported in May 2015.



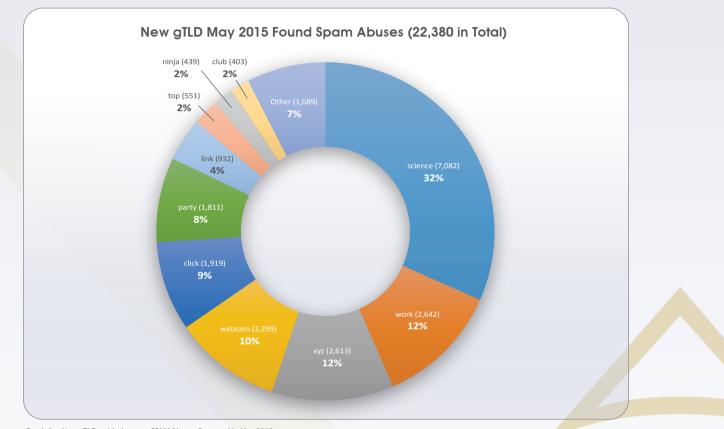


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Abuse Detection and Mitigation Service

The Progression of New gTLD Abuse - continued

Spam abuse reports from March to April increased over 100% from under 9,000 to over 18,000. This increase was sustained in May with spam reports growing another 20% to over 22,000 spam reports. The graph below depicts the distribution of the new May spam reports by new gTLD.



Graph 5 - New gTLDs with the most SPAM Abuses Reported in May 2015.

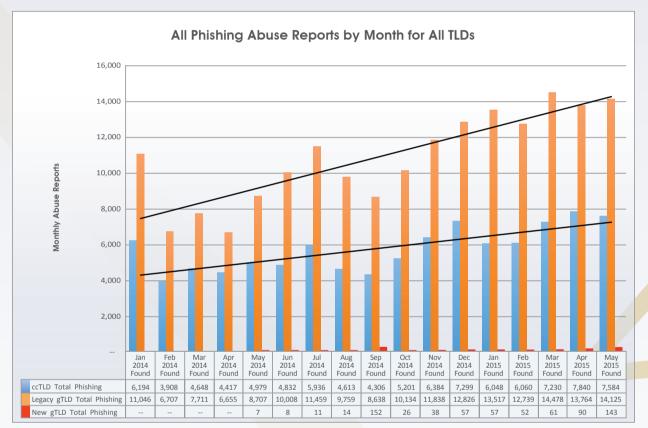


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A Focus On Phishing

Seeing the overall trend of a 100% increase in abuses found from Jan 2014 to May 2015 we wanted to focus on phishing to see if similar trends occurred. The following graph depicts new phishing abuses found broken out by category of TLD. Legacy gTLD phishing reports have also increased by almost 100% based upon the linear trend line going from approximately 7,300 to over 14,000 over the 17 month period. The May 2015 increase over May 2014 for legacy gTLDs was 62%. The ccTLD phishing has increased from approximately 4,100 to 7,100 or a 75% increase on a linear trend line. The May 2015 increase over May 2014 for ccTLDs was 52%. Phishing in New gTLDs increased from seven found in May 2014 to 143 in May 2015 or a twenty-fold increase.



Graph 6 - Comparison of Phishing Trends between ccTLDs, Legacy gTLDs, and new gTLDs for Jan 2014 to May 2015.

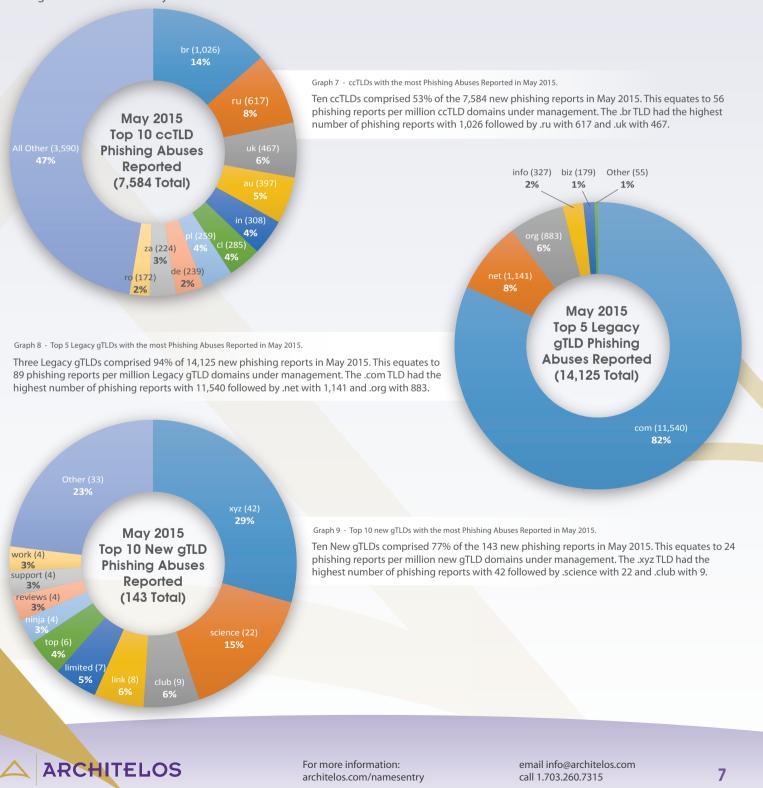


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Abuse Detection and Mitigation Service

A Focus On Phishing - continued

The following graphs show the TLDs by type (ccTLD, Legacy gTLD, New gTLD) with the highest number of phishing abuse listings in the month of May 2015.



The NAMESENTRY Abuse Report

Abuse Detection and Mitigation Service

Summary

In summary, overall newly found abuses (all types of spam, phishing, malware and botnet C&C) are increasing at 100% annually. Overall, aggregate ccTLDs have 33% (one third or 67% less) of the abuse levels detected in the aggregate of Legacy gTLDs. High levels of spam have been detected in New gTLDs that are twice that of ccTLDs when normalized for domains under management. New gTLDs are still very low on phishing, malware and botnet C&C abuse levels when compared to Legacy gTLDs and ccTLDs. However, as new gTLDs achieve greater adoption and awareness we expect the more malicious abuses to grow as well.



Well before the launch of the first new gTLD of the 2012 round, we saw the need for targeted tools that did not exist in the industry. NameSentrySM, a patented abuse detection and mitigation service, is an easy-to-use portal that allows you to monitor the overall health and reputation of your TLD or domain portfolio near real-time. Used by ICANN's Global Domains Division for abuse market intelligence and by over 45% of new gTLDs in the market to protect their users and enable compliance with Specification 11(3)b of the ICANN Registry Agreement, NameSentrySM is the unequivocal industry standard.

Architelos has also developed a suite of financial software products for domain registries and registrars. The solution is based on a number of modules each of which have perform specific roles, or when combined, support the financial activities of domain businesses.

- Folio ExchangeSM a next generation billing & remittance system that integrates with the all the front and back-end systems needed to automate billing.
- NumberSensesM a powerful tool that calculates deferred revenue & cost positions, accounting revenue & costs, and integrates seamlessly with both Folio Exchange and your general ledger.
- Business Intelligence tools that provides insightful graphic-driven reports on the key business drivers of a registry. The user is faced
 with a series of high level graph dashboards which is constantly fed data from a range of sources (back-end, publically available
 industry macro data and external sources). The user can customise their views and drill down to more detailed layers of data in
 order to investigate discrepancies and understand business trends.

About Illumintel (Illumintel.com)

Greg Aaron is President of Illumintel and a co-creator of NameSentry[™]. Greg is an expert in domain abuse detection and mitigation and works regularly with registries, registrars, and law enforcement to combat spam, malware, phishing, and other abuses. Greg is a member of ICANN's Security and Stability Advisory Committee (SSAC) and is co-chair of the Anti-Phishing Working Group's Internet Policy Committee.

For More Information

If you would like additional information about the report, please contact us at namesentry@architelos.com. If you'd like to automatically receive the next installment of the NameSentrySM Report, please sign up at http://architelos.com/contact-us/

