Site Blocking Efficacy – Key Findings
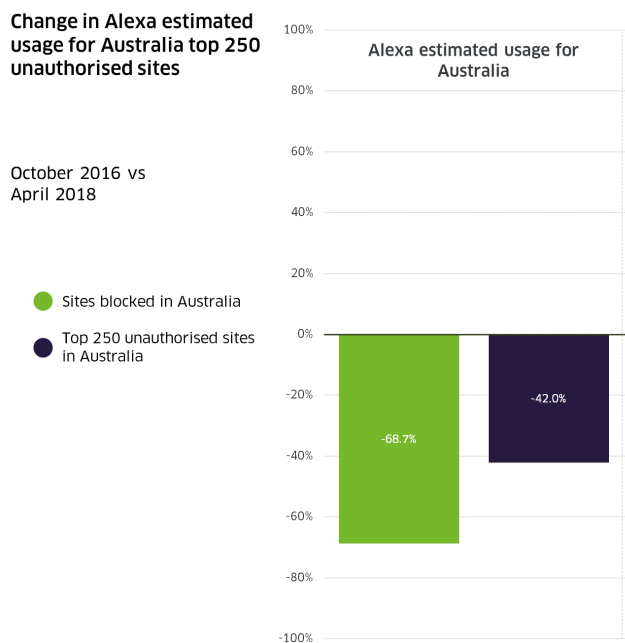
Australia

INCOPRO
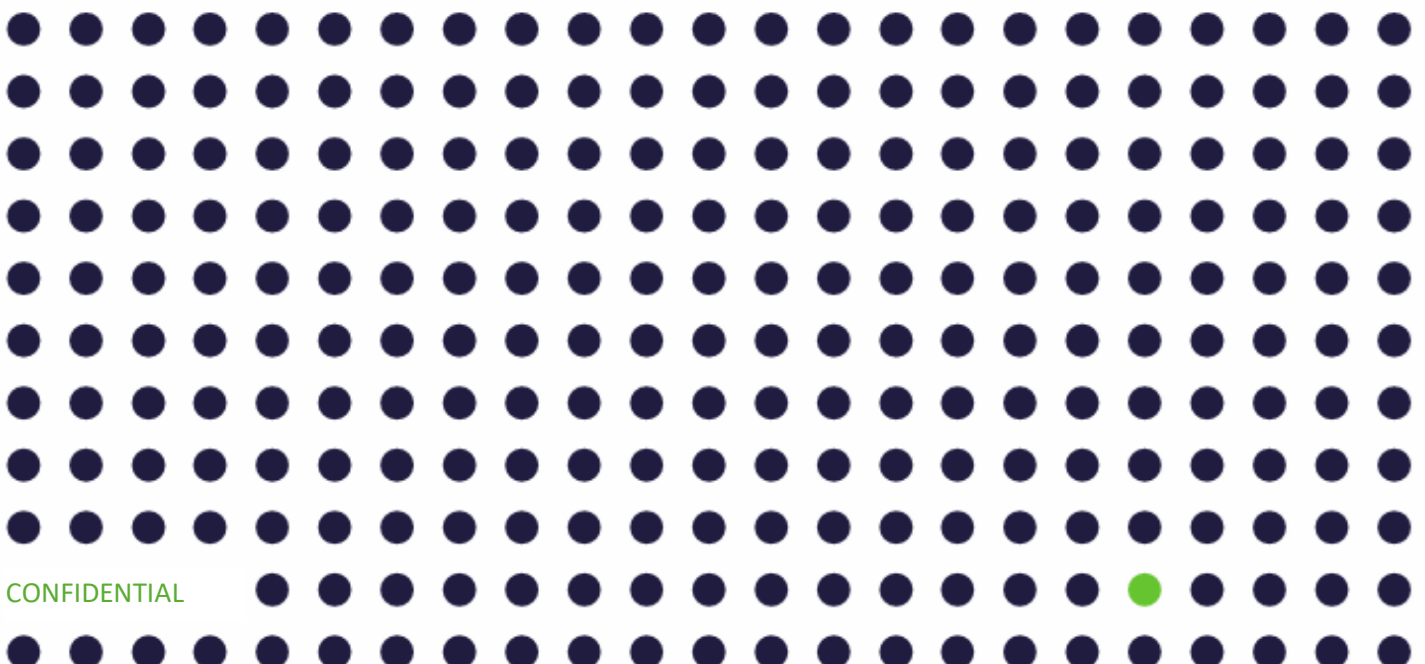
Key findings

The impact of site blocking in Australia has further increased following more frequent use of order extensions by applicants, resulting in a reduction in usage in Australia of the websites targeted by the blocking orders by 68.7% since October 2016, before the blocking regime began.

The key points from this report are as follows:

- Site blocking in Australia has resulted in an overall usage reduction of 68.7% to blocked sites when comparing usage recorded in April 2018 to before blocking took effect. Usage has decreased for each blocking wave implemented in the country;

- The usage of the top 50 sites in Australia has decreased by 50.4% since October 2016. This is 15.3% further than the 35.1% in the previous report;

- The graph below summarises the findings of this report and shows the change in usage for the top 250 unauthorised sites[1] in Australia over the recorded period of October 2016 to April 2018. The blocked sites have decreased in usage by a total of 68.7% in Australia. Overall usage of the top 250 unauthorised sites has decreased by 42% in Australia.

Change in Alexa estimated usage for Australia top 250 unauthorised sites

October 2016 vs April 2018

● Sites blocked in Australia

● Top 250 unauthorised sites in Australia

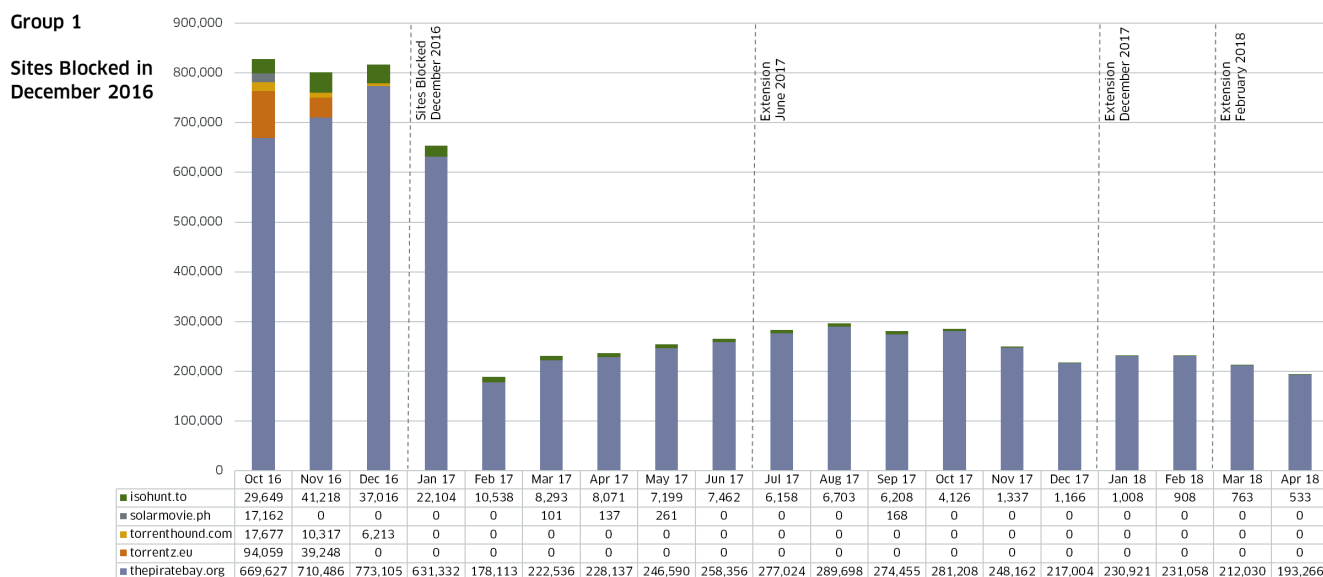Alexa estimated usage for Australia

-68.7%

-42.0%

---

[1] Appendix C shows how top-heavy piracy consumption is with most activity in the Top 50 sites, and demonstrates that a Top 250 is a valid proxy for piracy overall.

INCOPRO

Direct effect of site blocking

To understand the effect of site blocking on the targeted domains it is useful to start by looking at the direct impact on the sites themselves. Tracking Alexa data by territory enables INCOPRO to examine the trends in popularity and estimated usage. INCOPRO translates this Alexa data into Alexa estimated usage, which can give an indication of the usage of a given site in real terms (see *Appendix A: Methodology*). The graphs in part one of the report therefore show the Alexa estimated usage of the blocked sites in relation to before they were blocked.

Group 1

The first order obtained in Australia targeted 65 domains relating to 5 sites, with an implementation date of December 2016 (a full list of all domains subject to blocking in the country has been included in *Appendix B*). The stacked bar chart below shows the Alexa estimated usage in Australia for the sites included in this blocking order, as well as the extension orders which are represented by the dotted lines. It is important to note that proxy Pirate Bay domains were the main target of these follow-up blocks, however, proxy usage of all blocked groups is considered in the following proxies section and has not been included in the analysis below for this reason.

Group 1

Sites Blocked in December 2016

	Oct 16	Nov 16	Dec 16	Jan 17	Feb 17	Mar 17	Apr 17	May 17	Jun 17	Jul 17	Aug 17	Sep 17	Oct 17	Nov 17	Dec 17	Jan 18	Feb 18	Mar 18	Apr 18
isohunt.to	29,649	41,218	37,016	22,104	10,538	8,293	8,071	7,199	7,462	6,158	6,703	6,208	4,126	1,337	1,166	1,008	908	763	533
solarmovie.ph	17,162	0	0	0	101	137	261	0	0	0	168	0	0	0	0	0	0	0	0
torrenthound.com	17,677	10,317	6,213	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
torrentz.eu	94,059	39,248	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
thepiratebay.org	669,627	710,486	773,105	631,332	178,113	222,536	228,137	246,590	258,356	277,024	289,698	274,455	281,208	248,162	217,004	230,921	231,058	212,030	193,266

As has been the case for some time, only 2 of the blocked sites record Alexa estimated usage data in April 2018 - due to 3 of the sites having shut down: SolarMovie, Torrentz and TorrentHound. Since the previous report, which looked at usage up until November 2017, usage of the group has decreased 6.7% further (from 69.4% to 76.3%).

ISOHunt usage has continued its downward trend since December 2016, and is now at its lowest on record having reduced by 98.6% since blocking began. This is the result of an additional 2.2% reduction from the 96.4% reported for the site in November 2017.

The Pirate Bay continues to account almost solely for a majority of group 1 usage, and is responsible for 99.7% of the groups 193,266 total usage in April 2018. Blocking has clearly had a significant impact on the site, with usage having reduced by 75% since December
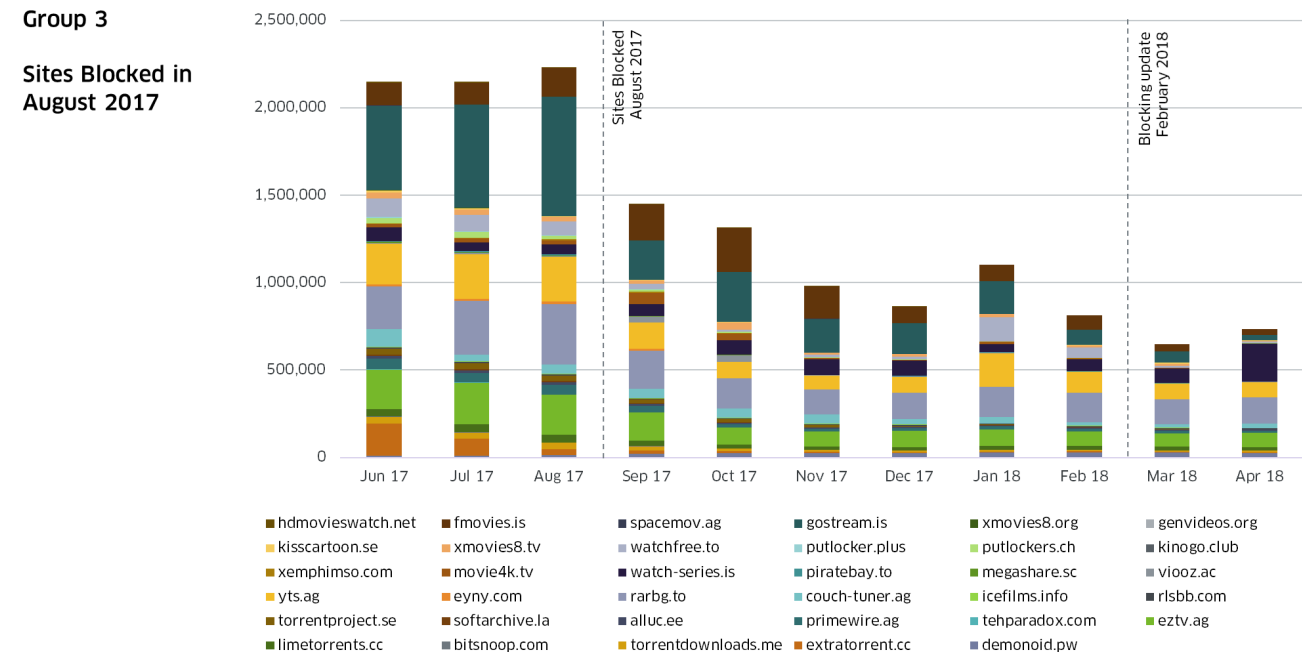
2016, an additional 7.1% from the 67.9% reduction reported in November 2017. The gradual rise in usage of the site seen since the immediate impact of blocking has reversed, with usage showing a downtrend from August 2017 onwards. It is likely that the repeated blocking variations indicated in the graph have worked to make the blocking of this group more effective by making it harder for usage to shift to alternative sites.

Group 2

Group 2 blocks were implemented in April 2017, targeting 7 domains relating to Kickass Torrents (full list of affected domains in *Appendix B*). The site was once the most popular torrent site globally, however, due to the site shutting down in July 2016 there is no discernible impact of the sites blocking in Australia – usage ceased for the blocked domains before the block was implemented.

Group 3

The first August 2017 blocking order to be covered in this report is that obtained by Roadshow. The order includes BitTorrent and video linking sites (full list in *Appendix B*), the usage of which is displayed in the graph below. As the dotted line depicts, an update to the blocking order was obtained in February 2018, resulting in 25 further domains being blocked.

Group 3

Sites Blocked in August 2017

|					
■ hdmovieswatch.net	■ fmovies.is	■ spacemov.ag	■ gostream.is	■ xmovies8.org	■ genvideos.org
■ kisscartoon.se	■ xmovies8.tv	■ watchfree.to	■ putlocker.plus	■ putlockers.ch	■ kinogo.club
■ xemphimso.com	■ movie4k.tv	■ watch-series.is	■ piratebay.to	■ megashare.sc	■ viooz.ac
■ yts.ag	■ eyny.com	■ rarbg.to	■ couch-tuner.ag	■ icefilms.info	■ rlsbb.com
■ torrentproject.se	■ softarchive.la	■ alluc.ee	■ primewire.ag	■ tehparadox.com	■ eztv.ag
■ limetorrents.cc	■ bitsnoop.com	■ torrentdownloads.me	■ extratorrent.cc	■ demonoid.pw	

As the graph shows, the overall usage change figure has been affected by a rise in usage to 1 site in April 2018 – watch-series.is (dark purple). Overall, blocking of the group has been effective, with the total combined usage of the group having decreased by 67.1% when comparing April 2018 usage to before blocking began in August 2017.

INCOPRO

Group 4

An order for another blocked group was also obtained by Foxtel in August 2017. The usage of affected domains is displayed in the graph below.

Group 4

Sites Blocked in August 2017
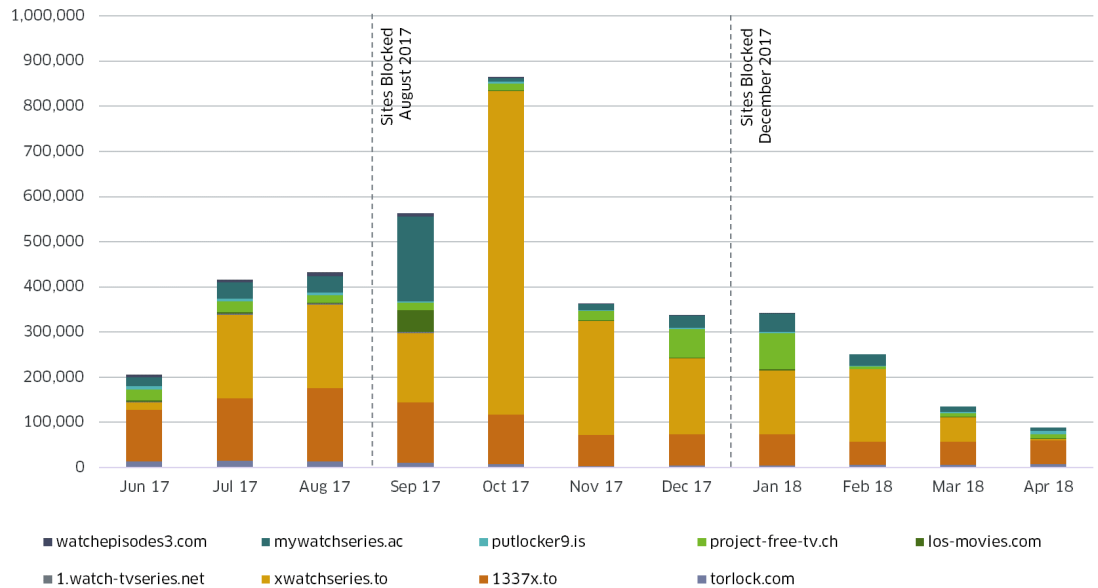
Usage of the group has decreased considerably since the October 2017 spike discussed in the previous report, and again since January 2018 – now at its lowest on record in April 2018. Overall, total usage of the group has reduced by 79.6% since blocking began in August 2017 (from 431,977 to 88,280).

As the graph shows, overall usage of the group has been affected by a decline in xwatchseries.to (gold). This is the result of an update to the blocking order in December 2017 which included two of the sites alternative domains. Usage of the two sites targeted in the blocking extension have decreased significantly since implementation, with ewatchseries.to usage having decreased by 99.6% and itswatchseries.to recording no usage in April 2018.
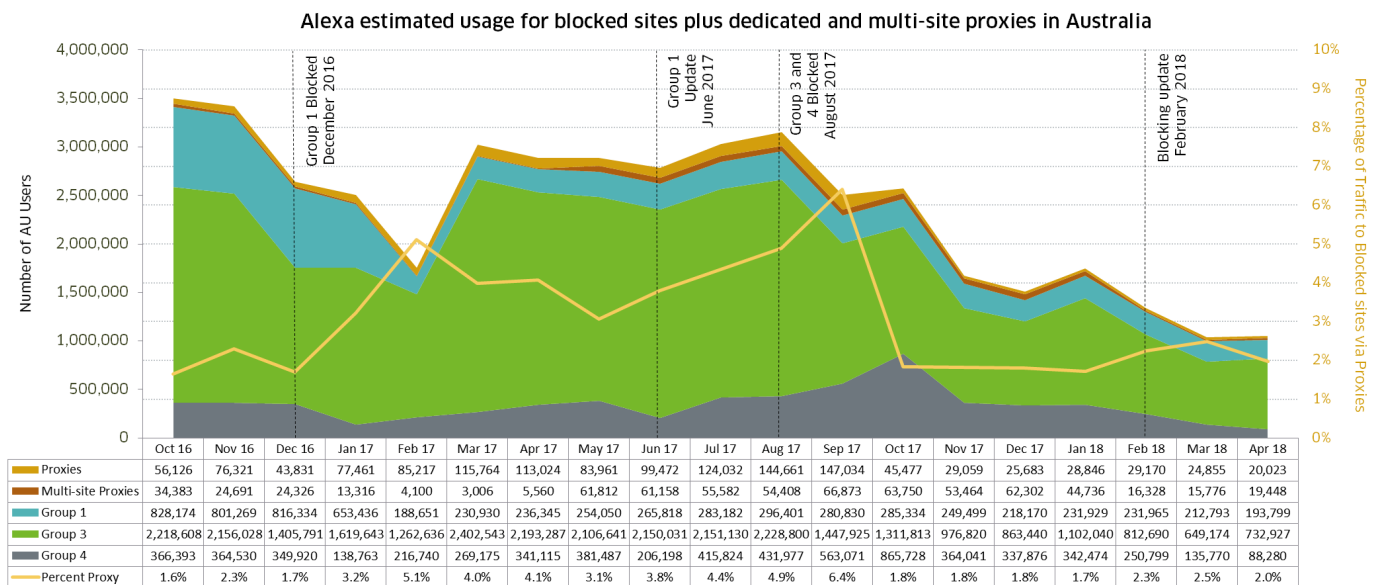
Proxy usage to circumvent website blocking

The analysis of the Alexa estimated usage for blocked sites detailed above did not include traffic going to proxies that were created to circumvent the ISP blocks. There are currently three types of site or service used to achieve this:

1) Dedicated sites offering access or a mirror of a specific blocked site
2) Sites offering access to more than one blocked site from one place ('multi-site proxies')
3) General purpose VPN or proxy services which offer access to any site

INCOPRO tracks all three categories; however, for the purposes of measuring traffic to unauthorised sites, only categories 1 and 2 have been considered in this report.[2] General purpose VPN and proxy services have been excluded because they allow users to access any website of their choice. As a result, it cannot be definitively concluded that they are being used to access unauthorised sites.

Although the potential for proxy use is ever present, in Australia it is only The Pirate Bay which receives noteworthy proxy usage. A number of proxies have now been blocked in the region, most notably in the June 2017 update to the group 1 order which targeted Pirate Bay proxies (full list of affected domains in *Appendix B*). The graph below shows the estimated usage for all dedicated proxies relating to blocked sites, including multi-site proxies and blocked site usage.

Alexa estimated usage for blocked sites plus dedicated and multi-site proxies in Australia

	Oct 16	Nov 16	Dec 16	Jan 17	Feb 17	Mar 17	Apr 17	May 17	Jun 17	Jul 17	Aug 17	Sep 17	Oct 17	Nov 17	Dec 17	Jan 18	Feb 18	Mar 18	Apr 18
Proxies	56,126	76,321	43,831	77,461	85,217	115,764	113,024	83,961	99,472	124,032	144,661	147,034	45,477	29,059	25,683	28,846	29,170	24,855	20,023
Multi-site Proxies	34,383	24,691	24,326	13,316	4,100	3,006	5,560	61,812	61,158	55,582	54,408	66,873	63,750	53,464	62,302	44,736	16,328	15,776	19,448
Group 1	828,174	801,269	816,334	653,436	188,651	230,930	236,345	254,050	265,818	283,182	296,401	280,830	285,334	249,499	218,170	231,929	231,965	212,793	193,799
Group 3	2,218,608	2,156,028	1,405,791	1,619,643	1,262,636	2,402,543	2,193,287	2,106,641	2,150,031	2,151,130	2,228,800	1,447,925	1,311,813	976,820	863,440	1,102,040	812,690	649,174	732,927
Group 4	366,393	364,530	349,920	138,763	216,740	269,175	341,115	381,487	206,198	415,824	431,977	563,071	865,728	364,041	337,876	342,474	250,799	135,770	88,280
Percent Proxy	1.6%	2.3%	1.7%	3.2%	5.1%	4.0%	4.1%	3.1%	3.8%	4.4%	4.9%	6.4%	1.8%	1.8%	1.8%	1.7%	2.3%	2.5%	2.0%

The graph shows a decrease in usage over time. The combined usage of blocked sites, proxies and multi-site proxies has decreased by 70.3% when comparing April 2018 to October 2016. This is a considerable change from the 53% reduction reported for November 2017 in the previous report. As the dashed lines indicate, there is a clear impact on usage in December 2016 when the first blocks in the country were implemented, in August 2017 when groups 3 and 4 were blocked, and in February 2018 when updates to the blocking orders were implemented.

---

[2] Please note that where a proxy is hosted on a subdomain of a popular site this is not currently tracked by INCOPRO. This is a result of the way in which Alexa data is collected and made available to us. Where a domain can be attributed to infringement, for example the multi-proxy site unblocked.tw, this is tracked at the domain level and the usage included in the analysis in this section.

Estimated usage of the blocked sites through dedicated proxies has decreased by 64.3% when comparing April 2018 usage to October 2016. This is a significant change from the 48.2% increase highlighted in the previous report. It should be noted that proxy usage relating to the blocked sites is entirely attributable to Pirate Bay proxies in April 2018, with no identifiable proxy usage found for the other blocked sites. As noted in the previous report, the update to the group 1 blocking order in June 2017 is the reason for the reduction in proxy usage. April 2018 usage of multi-site proxies has decreased by 43.4% since October 2016.

The combined usage of blocked sites and their dedicated proxy domains amounts to 1,035,028 in April 2018, which is a 70.2% decrease since October 2016, before any blocking began. The percentage of users using proxies to access blocked sites in April 2018 is 2%.

INCOPRO

Appendix A: Methodology

The websites contained in this report are identified by INCOPRO's Infringement Index; sites that either infringe copyright or that facilitate infringement of copyright (whether knowingly or not), by making available films and television programmes to the public, without the licence or consent of the owners of the copyrights in those works. Tracking Alexa data globally and by territory enables examination of the trends in popularity and estimated usage of sites in the Identify database. INCOPRO translates this Alexa data into Alexa estimated usage, which can give an indication of the usage of a given site in real terms, as explained further below. The data set used for the Australian landscape is based on all sites tracked in the Identify database with recorded usage in Australia between October 2016 and April 2018 which is referenced throughout report.

INCOPRO is able to track all domains related to each individual site. The usage value attributed to alternate domains will be highlighted where necessary and included separately in any graphs, so the impact of the extra data available is clear. This improves the accuracy of the data for each site and is referred to as "alternate domain usage". The inclusion of this data helps to show where site operators are using other domains, not subject to blocking, to circumvent the blocks and continue to attract users.

Where sites have a number of domains that work in a similar way, these can be identified in the graphs where sites show a split bar of data or are otherwise marked as illustrating the alternate domain usage data. Any sites shown in the graphs with 2 plus signs ('++') next to their domain name represent those sites that are subject to current blocking orders in Australia.

For the purposes of the analysis in this report, 2 data sets have been used:

1. INCOPRO used a list of 420 sites that have been blocked in Australia. All active alternative domains and sites aimed at circumventing the blocking, i.e. proxies, have also been included. Where necessary a distinction has been made where these sites are blocked or unblocked in the country. The Australia Alexa estimated usage data covers the period from October 2016 up to the end of April 2018, providing a picture of the usage of these sites prior to the blocks, and then after the implementation of the blocks to assess their efficacy.

2. The top 250 unauthorised websites that make available film and television content available to Internet users in Australia without the licence or consent of the companies that are responsible for the production and distribution of such films and television programmes. Some of these sites may also make available other copyright content, such as The Pirate Bay. Sites that do not make available film and television content have not been analysed in this report. The top 50 unauthorised sites in Australia have been identified using INCOPRO's database of websites, Identify, and by reference to INCOPRO's "Infringement Index", combined with a usage metric derived from Alexa data, explained later in this appendix.

All sites were online at the time of data collection, but this is subject to change at any time due to the way in which these sites operate. It is also important to note that the 2 data sets described above are not mutually exclusive and have some overlap.

The data used to prepare these reports is manually reviewed prior to analysis to ensure its quality. The lists of blocked sites included in this analysis can be found in Appendix B.

Prior to 2008, Alexa traffic estimates were based solely on their browser toolbar, which users had to manually install on their computer. In 2008 Alexa announced that they were no longer relying solely on the toolbar data, and instead pulled in data from a variety of sources, including buying data from ISPs. Alexa's methodology has changed again over the past few years, which appears to coincide with Alexa launching their direct site measurement program (Alexa Certified Metrics). Alexa has removed all text from their information pages regarding buying data from ISPs/collecting from a variety of sources, and now state the following (paraphrased):

- Traffic estimates are based on data from their global traffic panel, a sample of all internet users. The panel consists of millions of users using toolbars created by over 25,000 different publishers, including Alexa and Amazon.

- Some sites are directly measured by Alexa – site operators can sign up to Alexa's certified metrics program.

- Traffic Rank is a measurement of traffic to a website, relative to all other sites on the web and calculated using a combination of the estimated average daily unique visitors to the site and estimated number of page views.

- Alexa corrects for biases in the demographic distribution of site visitors, they correct for potential biases in data collected from the various browser extensions, to better represent the type of visitors who might not be in their measurement panel. That being said, biases still exist.

- Due to the concentration of visitors being on the most popular sites, it is difficult to accurately determine the rank of sites with fewer than 1000 monthly visitors. Therefore traffic rankings of 100,000 and above should be considered rough estimates. The closer a site gets to number 1, the more accurate its traffic ranking becomes.

Alexa's collection methods and traffic data were presented and explained in court last year by INCOPRO's Director of Technology, Bret Boivin. This evidence was accepted by the judge and formed an important part of the successful case against the defendant.

As there are several data providers that offer usage numbers for sites, and each provider applies a different methodology and draws data from different sources, INCOPRO has chosen to refer to the usage metric as an overall 'Alexa usage estimate'. This is to avoid inconsistencies with other data sources, and because the focus of this report is concerned with the impact of enforcement as opposed to the number of users for particular sites.

To determine this usage metric, we translate the Alexa reach, which is expressed as number of users per million, for each site and user percentages into estimates of the estimated usage of a website. To do this, the global internet population has been obtained from the latest ITU Facts and Figures (published February 2013). Alexa reach data is tracked automatically by our system, along with several other key metrics. For this calculation, the reach data is used with the ITU figure to produce the usage metric.

Alexa also makes data available for territories individually where the website has enough traffic data in that country. This is expressed as a percentage of all users visiting the site. This percentage figure is used in conjunction with the above reach calculation to get the Alexa estimated usage metric for the site in a given territory. We take the above calculations on a day-by-day basis and then calculate the median value for the month for each site, for both the global and country calculations. Given the fluctuations in numbers that can occur as a site decreases in popularity, this is the best way to remove any dramatic increases or decreases.

This Alexa usage estimate is used to show trends in relation to particular sites. Sites relevant to all aspects of the piracy landscape, from legitimate services to proxies used to circumvent ISP blocking measures are dynamically tracked by INCOPRO. We can also confidently assess the impact on other sites that are in the same type of "piracy market" and that might be expected to benefit from blocking applied to other sites. Our confidence on this stems from the fact that the INCOPRO system has tracked blocked sites and the key other piracy sites for a substantial period and has also tracked all known proxies for such sites. This tracking has had to be meticulous because the tracking is then used to notify ISPs of site and proxy domains to be blocked. More data sources are being identified and included in INCOPRO's Site Intelligence Database (Identify) in the coming months, which will increase the data points available for comparison.

In this report, 'top x sites' refers to the most popular sites that are responsible for, or enable, the infringement of copyright in film and television content, as tracked by INCOPRO. The data used to prepare these reports is manually reviewed prior to analysis to ensure its quality.

Appendix B: Sites blocked in Australia

The Australian site blocking efficacy reports consider the impact of all site blocking injunctions undertaken in the country. Appendix B includes all sites blocked in the country to date (including those which were not analysed in this report but will be analysed in future reports), as they appear in the blocking order.

Group 1 – December 2016

The first group of blocked sites contains 65 domains relating to 5 main sites which were ordered to be blocked in December 2016. Both unauthorised sites and the proxies that relate to them have been reproduced in full below, as they appear in order:

Name	Host	Name	Host
The Pirate Bay	thepiratebay.se	The Pirate Bay	thepiratebay-proxy.com
The Pirate Bay	bayproxy.pw	The Pirate Bay	thepirateboat.eu
The Pirate Bay	downloadbay.eu	The Pirate Bay	tpbmirror.us
The Pirate Bay	fastpiratebay.co.uk	The Pirate Bay	urbanproxy.eu
The Pirate Bay	fastpiratebay.eu	Torrentz	torrentz.eu
The Pirate Bay	magnetsearch.org	Torrentz	torrentsmirror.com
The Pirate Bay	mypirateproxy.com	Torrentz	torrentz.ch
The Pirate Bay	pirate.guru	Torrentz	torrentz.com
The Pirate Bay	pirateahoy.eu	Torrentz	torrentz.hk
The Pirate Bay	piratebay.host	Torrentz	torrentz.in
The Pirate Bay	piratebaymirror.eu	Torrentz	torrentz.li
The Pirate Bay	piratebayproxy.be	Torrentz	torrentz.me
The Pirate Bay	piratebays.co	Torrentz	torrentz.ph
The Pirate Bay	piratebays.co.uk	Torrentz	torrentz-proxy.com
The Pirate Bay	pirateproxy.ca	Torrentz	tz.ai
The Pirate Bay	pirateproxy.tf	TorrentHound	torrenthound.com
The Pirate Bay	pirateproxy.wf	TorrentHound	torrenthound.at
The Pirate Bay	pirateproxy.yt	TorrentHound	torrenthound.cm
The Pirate Bay	thebay.tv	TorrentHound	torrenthound.immunicity.info
The Pirate Bay	thepiratebay.casa	TorrentHound	torrenthound.ru
The Pirate Bay	thepiratebay.cd	TorrentHound	torrenthound.to
The Pirate Bay	thepiratebay.cr	TorrentHound	torrenthound.unlocktor.eu
The Pirate Bay	thepiratebay.am	TorrentHound	torrenthound-proxy.com
The Pirate Bay	thepiratebay.gd	IsoHunt	isohunt.to
The Pirate Bay	thepiratebay.gs	IsoHunt	isohunt.duhsoft.com
The Pirate Bay	thepiratebay.la	IsoHunt	isohunt.kooaba.net
The Pirate Bay	thepiratebay.mn	IsoHunt	isohunt.st
The Pirate Bay	thepiratebay.vg	IsoHunt	isohunters.net
The Pirate Bay	thepiratebay.expert	SolarMovie	solarmovie.ph
The Pirate Bay	thepiratebay.org	SolarMovie	solarmovie.is
The Pirate Bay	thepiratebay.uk.net	SolarMovie	solarmovie.com
The Pirate Bay	thepiratebay.xn--fiqs8s	SolarMovie	solarmovie.eu
The Pirate Bay	thepiratebay.xn--q9jyb4c		

INCOPRO

Group 1 – June 2017

Following on from the initial block in December 2016, an additional 73 mirror and proxy domains relating to The Pirate Bay and Torrentz were ordered to be blocked in June 2017. These domains, as they appear in the blocking order, have been reproduced in full below:

Name	Host	Name	Host
The Pirate Bay	accesspiratebay.com	The Pirate Bay	123bay.org
The Pirate Bay	bayproxy.net	The Pirate Bay	ikwilthepiratebay.org
The Pirate Bay	pbproxy.com	The Pirate Bay	tpb.proxyduck.co
The Pirate Bay	pbproxy.site	The Pirate Bay	thepiratebay24.ga
The Pirate Bay	pirate-proxy.info	The Pirate Bay	piratebay.website
The Pirate Bay	piratebay.to	The Pirate Bay	piraattilahti.net
The Pirate Bay	pirateproxy.nl	The Pirate Bay	pirate-bay.tk
The Pirate Bay	pirateproxy.vip	The Pirate Bay	bay.maik.rocks
The Pirate Bay	pirateproxybay.site	The Pirate Bay	pirateportal.xyz
The Pirate Bay	pirates.pw	The Pirate Bay	piratebayproxy.tf
The Pirate Bay	pirateunblocker.com	The Pirate Bay	piratebayblocked.com
The Pirate Bay	proxypirate.pw	The Pirate Bay	123bay.bid
The Pirate Bay	thepiratebay-se.com	The Pirate Bay	thepiratebay.rocks
The Pirate Bay	thepiratebay.ar.com	The Pirate Bay	tpb.portalimg.com
The Pirate Bay	thepiratebay.de.com	The Pirate Bay	tproxy.pro
The Pirate Bay	thepiratebay.je	The Pirate Bay	thepiratebay.run
The Pirate Bay	thepiratebay.lv	The Pirate Bay	ahoy.one
The Pirate Bay	thepiratebay.mg	The Pirate Bay	thehiddenbay.info
The Pirate Bay	thepiratebay.se.net	The Pirate Bay	tpb.patatje.eu
The Pirate Bay	thepirateproxy.co	The Pirate Bay	thepirate.zone
The Pirate Bay	thepirateproxybay.site	The Pirate Bay	pbp.rocks
The Pirate Bay	theproxy.pw	The Pirate Bay	tpbay.ga
The Pirate Bay	theproxy.xyz	The Pirate Bay	tb.ramen-proxy.tk
The Pirate Bay	tpbay.co	The Pirate Bay	kuiken.co
The Pirate Bay	tpbproxy.cc	The Pirate Bay	tpb.dashitz.com
The Pirate Bay	tpbproxy.pw	The Pirate Bay	thepiratebay.immunicity.cool
The Pirate Bay	ukpirateproxy.xyz	The Pirate Bay	thepiratebay.unblocked.cool
The Pirate Bay	pirate.trade	The Pirate Bay	bayproxy.date
The Pirate Bay	ukpirate.org	The Pirate Bay	baymirror.win
The Pirate Bay	piratebay.click	The Pirate Bay	ourbay.xyz
The Pirate Bay	piratebayproxy.tf	The Pirate Bay	tpbpro.xyz
The Pirate Bay	pbproxy.com	Torrentz	torrentz2.eu
The Pirate Bay	unblockedbay.info	Torrentz	torrentz.eu.org
The Pirate Bay	thepirate.se	Torrentz	torrentz.bypassed.cool
The Pirate Bay	piratebay.red	Torrentz	torrentz.unblocked.cool
The Pirate Bay	pirateproxy.click	Torrentz	torrentz.immunicity.cool
The Pirate Bay	thepiratebay.red		

INCOPRO

Group 1 – December 2017

A further 4 Pirate Bay domains were added to the order in December 2017.

Name	Host
The Pirate Bay	thepiratebay-proxlist.org
The Pirate Bay	proxybay.one
The Pirate Bay	thepiratebayproxylist.net
The Pirate Bay	themirrorbay.com

Group 1 – February 2018

An additional 5 Pirate Bay proxy domains were added to the blocking order in February 2018.

Name	Host
The Pirate Bay	pirateproxy.cam
The Pirate Bay	pirateproxy.cc
The Pirate Bay	pirateproxy.cat
The Pirate Bay	hyperproxy.net
The Pirate Bay	pirateproxy.site

Group 1 – April 2018

An extension to the order obtained in April 2018 added 11 additional sites.

Name	Host	Name	Host
The Pirate Bay	piratepiratepirate.com	The Pirate Bay	pirateproxy.sh
The Pirate Bay	tpb.tw	The Pirate Bay	thepiratebay3.org
The Pirate Bay	thehiddenbay.ws	The Pirate Bay	piratebayproxylist.net
The Pirate Bay	thehiddenbay.fi	Torrentz	torrentz2.is
The Pirate Bay	thepiratebay.blue	Torrentz	torrentz2.me
The Pirate Bay	thehiddenbay.cc		

Group 2 – April 2017

The second wave in Australia was obtained by the music industry and ordered to be blocked in April 2017. The injunction concerns 7 Kickass Torrents domains, shown in full below:

Name	Host
Kickass Torrents	kat.al
Kickass Torrents	kattor.xyz
Kickass Torrents	kickass.cd
Kickass Torrents	kickass.immunicity.date
Kickass Torrents	kickass.pe
Kickass Torrents	kickass.ukbypass.download
Kickass Torrents	kickass.unblocked.tv

Group 3 – August 2017

The third group of blocked sites contains 83 domains which relate to various BitTorrent and linking sites, as detailed below:

Name	Host	Name	Host
KissCartoon	kisscartoon.se	ExtraTorrent.cc	extra2.to
KissCartoon	kisscartoon.me	ExtraTorrent.cc	extratorrent.cc
KissCartoon	kisscartoon.com	EZTV	eztv.ag
WatchFree	watchfree.to	EZTV	istole.it
PrimeWire	primewire.ag	EZTV	zoink.it
PrimeWire	gxiso.com	EZTV	ezrss.it
Movie4K	movie4k.to	EZTV	eztv.ch
WatchSeries	watchseries.cr	Rarbg	rarbg.to
WatchSeries	watchseries-online.eu	Rarbg	rarbg.com
WatchSeries	watchserieshd.eu	YTS	yts.ag
Alluc	alluc.ee	Yify Torrent	yify-torrent.org
Alluc	alluc.com	Torrent Downloads	torrentdownloads.me
Alluc	alluc.to	Bitsnoop	bitsnoop.com
Alluc	oneclickmoviez.com	Demonoid	demonoid.tv
Alluc	alluc.org	Limetorrents	limetorrents.cc
Phimmoi	phimmoi.net	Limetorrents	limetorrents.com
123Movies	123movies.is	Tehparadox	tehparadox.com
123Movies	123movies.to	Torrentproject	torrentproject.se
Couchtuner	couch-tuner.ag	Icefilms	icefilms.info
Couchtuner	couchtuner.ag	Piratebay.to	piratebay.to
Couchtuner	couchtuner.com	Piratebay.to	thepiratebay.to
FMovies	fmovies.se	Piratebay.to	tpb.to
FMovies	fmovies.to	Putlockers.ch	putlockers.ch
XMovies8.tv	xmovies8.tv	Putlockers.ch	putlocker.is
Putlockers.vip	putlockers.vip	Putlockers.ch	putlocker.bz
Putlockers.vip	putlocker.watch	Softarchive	sanet.cd
EYNY	eyny.com	Softarchive	softarchive.la
MegaShare	megashare.at	Softarchive	softarchive.net
MegaShare	megashare.sc	Rlsbb	rlsbb.com
MegaShare	megashare.info	Putlocker.run	putlocker.run
GenVideos	genvideos.org	Putlocker.run	putlocker.live
Spacemov	spacemov.net	Extra.to	extra.to
Spacemov	spacemov.com	Extra.to	extratorrent.com
Kinogo	kinogo.club	GoMovies	gomovies.to
Kinogo	kinogo.co	xmovies8.ru	xmovies8.ru
Viooz	viooz.ac	putlocker1.live	putlocker1.live
Hdmovieswatch	hdmovieswatch.org	spacemov.tv	spacemov.tv
Hdmovieswatch	hdmovieswatch.net	hdmovieswatch.eu	hdmovieswatch.eu
Putlocker.plus	putlocker.plus	putlockers.ca	putlockers.ca
XMovies8.org	xmovies8.org	putlocker.co	putlocker.co
Xemphimso	xemphimso.com	Rlsbb	rlsbb.ru
Shush	shush.se		

INCOPRO

Group 3 – February 2018

25 additional domains were added to the order in February 2018.

Name	Host
gowatchfreemovies.to	gowatchfreemovies.to
watch-series.is	watch-series.is
Putlocker7.live	putlocker7.live
123movieshub.to	123movieshub.to
Xmovies8.es	xmovies8.es
Spacemov.io	spacemov.io
vzm.ag	vzm.ag
hdmovieswatch2.org	hdmovieswatch2.org
yts.am	yts.am
movie4k.org	movie4k.org
Bmovies.se	bmovies.se
watchseries.do	watch-series.do
watchseries.do	watchseries.do

Name	Host
gomovies.is	gomovies.is
memovies.ru	memovies.ru
xmovies8.com	xmovies8.com
spacemovhd.com	spacemovhd.com
spacemov.ag	spacemov.ag
watchmovies4k.org	watchmovies4k.org
allhdmovieswatch.org	allhdmovieswatch.org
hdmovieswatchs.org	hdmovieswatchs.org
putlockerx.live	putlockerx.live
fmovies.is	fmovies.is
Rarbg.is	rarbg.is
Extratorrent.ag	extratorrent.ag

INCOPRO

Group 4 – August 2017

The fourth group of blocked sites targets 129 BitTorrent and linking domains:

Name	Host	Name	Host
YesMovies	yesmovies.to	WatchSeries1	watchseries.bypassed.video
Vumoo	vumoo.li	WatchSeries1	watchseries.bypassed.website
LosMovies	losmovies.cc	WatchSeries1	watchseries.bypassed.win
LosMovies	losmovies.ch	WatchSeries1	watchseries.immunicity.cc
LosMovies	losmovies.club	WatchSeries1	watchseries.immunicity.cab
LosMovies	losmovies.com	WatchSeries1	watchseries.immunicity.faith
LosMovies	losmovies.is	WatchSeries1	watchseries.immunicity.ltd
LosMovies	losmovies4-cc.unblocked.lol	WatchSeries1	watchseries.immunicity.men
LosMovies	losmovies2-club.unblocked.lol	WatchSeries1	watchseries.immunicity.red
LosMovies	losmovies5-cc.unblocked.lol	WatchSeries1	watchseries.immunicity.site
CartoonHD	cartoonhd.be	WatchSeries1	watchseries.immunicity.stream
CartoonHD	cartoonhd.cc	WatchSeries1	watchseries.immunicity.tech
CartoonHD	cartoonhd.online	WatchSeries1	watchseries.immunicity.video
CartoonHD	cartoonhd.website	WatchSeries1	watchseries.unblocked.ltd
CartoonHD	cartoonhd.global	WatchSeries1	watchseries.unblocked.rocks
Putlocker	putlocker.today	WatchSeries1	watchseries.unblocked.run
WatchSeries1	mywatchseries.to	WatchSeries1	watchseries.unblocked.video
WatchSeries1	onwatchseries.to	WatchSeries1	watchseries.unblockall.xyz
WatchSeries1	the-watch-series.to	WatchSeries1	watchtvseries.unblockall.xyz
WatchSeries1	projectfree-tv.to	WatchSeries1	watchtvseries.unblocked.cat
WatchSeries1	thewatchseries.to	WatchSeries1	watchtvseries.unblocked.ist
WatchSeries1	watch-series-tv.to	WatchSeries1	watchtvseries.unblocked.li
WatchSeries1	watchseries.to	WatchSeries1	watchtvseries.unblocked.one
WatchSeries1	watchseries.bypassed.cc	WatchSeries1	watchtvseries.unblocked.red
WatchSeries1	watchseries.bypassed.club	WatchSeries1	watchtvseries.unblocked.tv
WatchSeries1	watchseries.bypassed.date	WatchSeries1	watchtvseries.unblocked.uno
WatchSeries1	watchseries.bypassed.download	WatchSeries1	watchseries.unblocked.fyi
WatchSeries1	watchseries.bypassed.faith	WatchSeries1	watchseries.unblocked.kim
WatchSeries1	watchseries.bypassed.fyi	WatchSeries1	watchseries.bypassed.team
WatchSeries1	watchseries.bypassed.host	WatchSeries1	watchseries.unblocked.team
WatchSeries1	watchseries.bypassed.live	WatchSeries1	watchseries.bypassed.gold
WatchSeries1	watchseries.bypassed.me	WatchSeries1	watchseries.immunicity.gold
WatchSeries1	watchseries.bypassed.men	WatchSeries1	watchseries.unblocked.gold
WatchSeries1	watchseries.bypassed.online	WatchSeries1	watchtvseries.unblckd.top
WatchSeries1	watchseries.bypassed.org	WatchSeries1	watchtvseries.unblocked.srl
WatchSeries1	watchseries.bypassed.party	WatchSeries1	watchseries.bypassed.plus
WatchSeries1	watchseries.bypassed.pw	WatchSeries1	watchseries.bypassed.cab
WatchSeries1	watchseries.bypassed.red	WatchSeries1	watchseries.immunicity.plus
WatchSeries1	watchseries.bypassed.run	WatchSeries1	watchseries.immunicity.team
WatchSeries1	watchseries.bypassed.site	WatchSeries1	watchseries.unblocked.plus
WatchSeries1	watchseries.bypassed.top	WatchSeries1	watchtvseries.unblckd.ws

INCOPRO

Name	Host
WatchSeries2	onwatchseries.ac
WatchSeries2	mywatchseries.ac
WatchSeries2	mewatchseries.ac
WatchSeries2	mewatchseries.to
ProjectFreeTV1	project-free-tv.li
ProjectFreeTV1	project-free-tv.ag
ProjectFreeTV1	project-free-tv.ch
ProjectFreeTV1	project-free-tv.im
ProjectFreeTV1	projectfreetv.at
ProjectFreeTV1	projectfreetv.cc
ProjectFreeTV1	projectfreetv.ch
ProjectFreeTV1	projectfreetv.cz
ProjectFreeTV1	projectfreetv.im
ProjectFreeTV1	projectfreetv.in
ProjectFreeTV1	projectfreetv.so
ProjectFreeTV2	projectfreetv.us
ProjectFreeTV2	projectwatchseries.com
Watch Episodes	watchepisodes4.com
Watch Episodes	watchepisodes.com
Watch Episodes	watchepisodes3.com
Watch Episode Series	watchepisodeseries.com
Watch Episode Series	watchepisodes1.com
Watch TV Series	watch-tvseries.me
Watch TV Series	watch-tvseries.net

Name	Host
Watch TV Series	1.watch-tvseries.net
The Dare Telly	thedarewatch.com
The Dare Telly	thedaretelly.com
Putlocker9.is	putlocker9.is
Putlocker9.to	putlocker9.com
Putlocker9.to	putlocker9.to
Putlocker9.to	putlocker9.co
Torlock	torlock.com
1337x	1337x.to
1337x	1337x.immunicity.ltd
1337x	1337x.immunicity.men
1337x	1337x.unblocked.li
1337x	1337x.unblocked.pe
1337x	1337x.unblocked.tw
1337x	1337x.unblocked.run
1337x	1337x.immunicity.gold
1337x	1337x.unblocked.gold
1337x	1337x.unblocked.cam
1337x	1337x.immunicity.team
1337x	1337x.unblocked.team
1337x	1337x.immunicity.plus
1337x	1337x.unblocked.srl
1337x	1337x.unblocked.plus

Group 4 – December 2017

An extension obtained in December 2017 added the following 5 domains to the order.

Name	Host
LosMovies	losmovies.ac
CartoonHD	cartoonhd.life
CartoonHD	cartoonhd.in
WatchSeries1	ewatchseries.to
WatchSeries1	itswatchseries.to

Group 4 – May 2018

An additional 13 sites were blocked in May 2018. This block has no impact upon the report which uses a dada cut-off point of April 2018.

Name	Host
YesMovies	yesmovies.org
YesMovies	yesmovies.io
LosMovies	losmovies.me
LosMovies	los-movies.com
WatchSeries1	letswatchseries.ac
WatchSeries1	dwatchseries.to
WatchSeries1	dwatchseries.io

Name	Host
WatchSeries1	thewatchseries.ac
ProjectFreeTV1	projectfreetv.bz
The Dare Telly	mydarewatch.com
1337x	1337x.st
1337x	1337x.io
1337x	x1337x.ws

INCOPRO

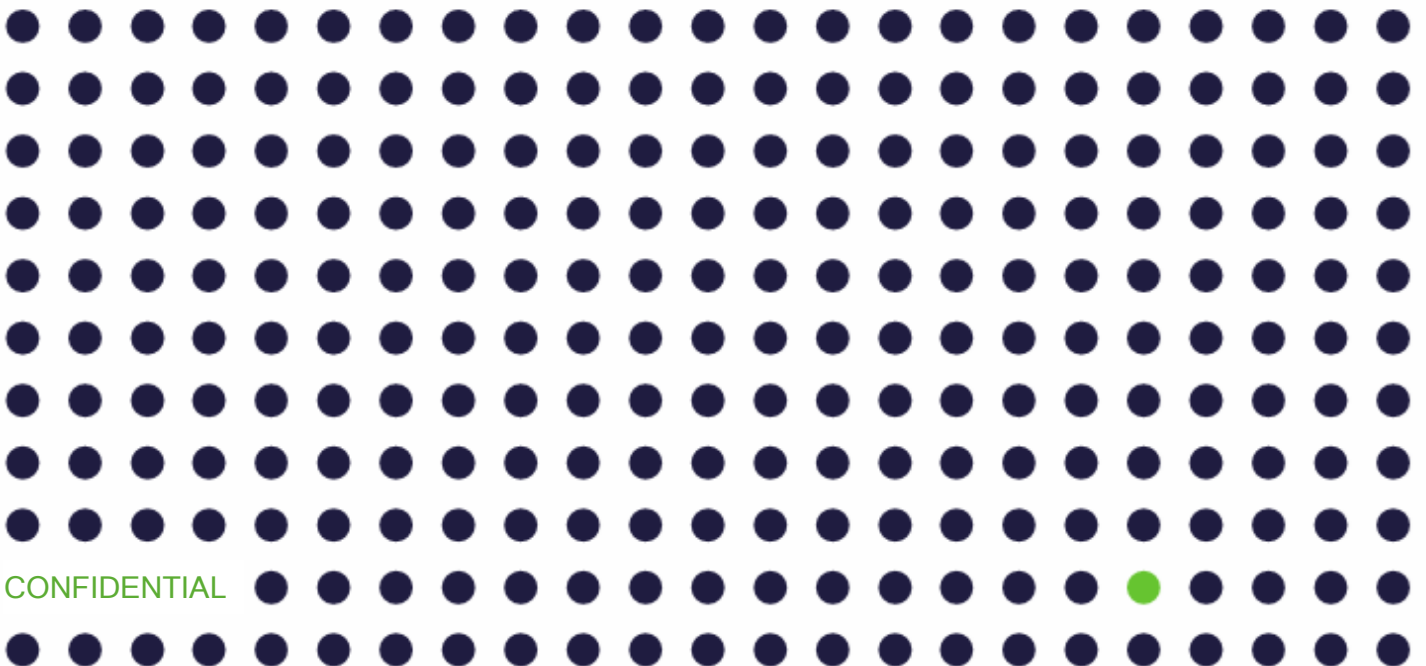## Appendix C: Relative Size across Top 250 Piracy Sites

Top 250 site usage in Australia by Alexa estimated usage

Site 1 - 250

April 2018
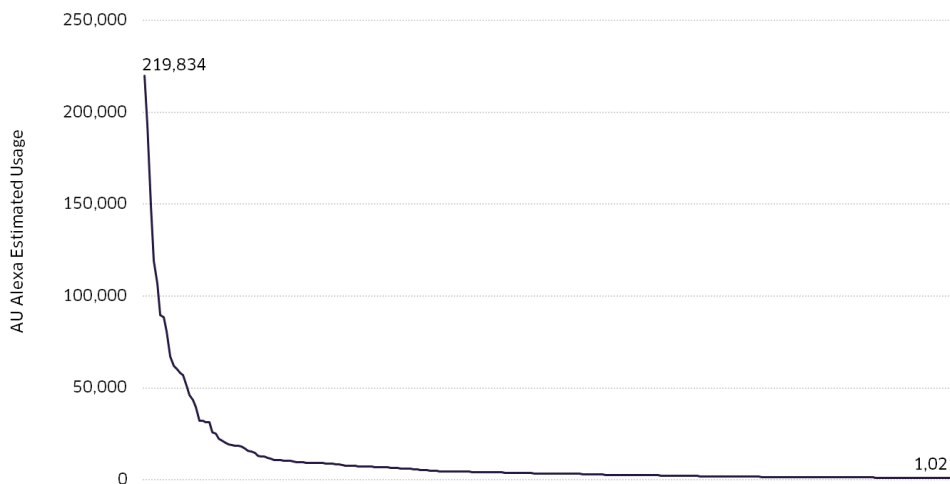
As the graph shows, there is a significant difference between the highest usage sites when compared to the long tail formed by the lower usage sites in the top 250. YThe bottom site in the top 250 only amounts to 0.5% of the usage of the highest usage site (1,021 compared to 219,834).

INCOPRO