

**ICANN**

**COMMUNITY FORUM**

**67**

**7-12 March 2020**

**Open Data Program  
Open Data Platform Launch V1**

**11 March 2020**

# Session Information

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This session will be recorded.



This session is scheduled to last 1 hour.



Presentation PowerPoint and recording will be published on ICANN67 website.



Q&As will be after the presentation.

Please be advised that translation is not supported for this session. Please submit and ask questions / comments in English.



If you need to post questions / comments in Spanish and French, we will include our response in the Q&A document that will be published on the ICANN67 session page after this session, along with other questions / comments we could not respond to during the session.

# Opening Remark



**Susanna Bennett**  
SVP & Chief Operating Officer

# Presenters and Remote Participants Manager



**Victoria Yang**  
Operations



**Alain Durand**  
Office of Chief  
Technology Officer



**Edman Perez**  
Engineering &  
Information Technology



**Russ Weinstein**  
Global Domain Division



**Mukesh Chulani**  
Global Domain Division



**Marilia Hirano**  
Remote Participants  
Manager

# ICANN Open Data Program

Aims to:

- Increase transparency and improve accessibility & availability of data.
- Strengthen ICANN org's procedures, processes, and standards for higher data usability.



# Open Data Platform Launch V1

## Session Objective

- ⦿ Introduce the platform and its functionality.
- ⦿ Introduce the published datasets.
- ⦿ Engage and encourage community to access the platform and available data. Provide feedback to ICANN org to continually improve this platform and the datasets.



**Platform will be  
open to public  
later today.**



**Register Your Account**

**[opendata.icann.org](https://opendata.icann.org)**

# Agenda

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ICANN's Open Data Milestones



Demonstrate ICANN Open Data Platform



Demonstrate Published Data



What's Next



Questions and Answers



**Victoria Yang**  
Operations Senior Program Manager

# ICANN's Open Data Milestones

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Request For  
Proposal  
(RFP) to  
acquire a  
SaaS Open  
Data Platform

Open Data  
data asset  
Inventory  
and metadata  
public  
comment

Purchased the  
Open Data  
Platform &  
demonstrated  
Platform  
features

Discussed  
data  
publication  
process with  
community

Implemented  
Open Data  
Platform  
design &  
started  
dataset  
assessment  
for  
Launch V1

Preparation  
for Launch  
V1

# ICANN Open Data Platform



# ICANN Open Data Platform – Home Page

One World, One Internet

Back to ICANN Account SEARCH Q Victoria Yang Logout

HOME DATA CHARTS API ABOUT HELP

## Welcome to ICANN Open Data Platform!

The goal of ICANN's Open Data Program is to provide the ICANN community with access to publicly available data. You can search, browse, view, download, and analyze the available data. Please visit the About page to learn more.

Register to access available data and site features

### Share

#### Browse ICANN Datasets

<b>Domain Name Marketplace Indicators</b> 19 dataset(s)	<b>Identifier Technology Health Indicators (ITHI)</b> 1 dataset(s)	<b>Registry Functions Activity Reports</b> 1 dataset(s)	<b>Per-Registrar Transactions Reports</b> 11 dataset(s)
--	---	--	--

#### Latest Updates

- Number of involuntary gTLD registrar terminations**  
Modified a day ago
- Number of involuntary gTLD registry terminations**  
Modified 4 days ago
- Total number of gTLD registry operator and gTLD registrar related complaints**  
Modified 8 days ago
- Number of domains by ICANN region in gTLDs and ccTLDs**  
Modified 9 days ago
- Number of distinct gTLD registrar entities (Total and New)**  
Modified 9 days ago

#### Most Downloaded

- ITHI: DNS Root Traffic Analysis**  
8 downloads
- Per-Registrar Transactions Report 2009**  
3 downloads
- Number of gTLD registrars accredited and terminated (Total and New)**  
2 downloads
- Number of domains by ICANN region in gTLDs and ccTLDs**  
2 downloads
- Total number of gTLD registry operator and gTLD registrar related complaints**  
2 downloads

#### Most API Calls

- ITHI: DNS Root Traffic Analysis**  
1225 API calls
- Per-Registrar Transactions Report 2009**  
724 API calls
- Number of domains by ICANN region in gTLDs and ccTLDs**  
548 API calls
- Number of domains (by TLD category)**  
467 API calls
- Total number of gTLD registry operator and gTLD registrar related complaints**  
368 API calls

#### OTHER ICANN SITES

- ICANN.org
- Address Supporting Organization (ASO)
- AT-Large
- ICANN Community Wiki
- Country Code Names Supporting Organization (ccNSO)
- Generic Names Supporting Organization (GNSO)
- Governmental Advisory Committee (GAC)
- Root Server System Advisory Committee (RSSAC)
- Security and Stability Advisory Committee (SSAC)

#### CONNECT WITH US

CONTACT US  
CAREERS AT ICANN

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Slides 12 - 13

Slides 14

Slides 15

Slides 16

Note: Metrics shown on this screen shot is for demonstration purpose only.

# Home Page

Browse all available datasets

Analyze and visualize your data

Go back to your ICANN Account

Search datasets by keywords

Access ICANN's Social Media Platform

The screenshot shows the ICANN Open Data Platform home page. At the top left is the ICANN logo and the slogan "One World, One Internet". To the right are links for "Back to ICANN Account", a search bar with a magnifying glass icon, a user profile for "Victoria Yang", and a "Logout" button. Below the header is a navigation menu with links for "HOME", "DATA", "CHARTS", "API", "ABOUT", and "HELP". The main content area features a large blue banner with the text "Welcome to ICANN Open Data Platform!" and a sub-headline: "The goal of ICANN's Open Data Program is to provide the ICANN community with access to publicly available data. You can search, browse, view, download, and analyze the available data. Please visit the About page to learn more." Below this text is a button that says "Register to access available data and site features". On the right side of the banner is a graphic with the words "OPEN DATA" and a magnifying glass icon over a colorful pie chart. Five callout boxes with arrows point to specific elements: "Browse all available datasets" points to the "DATA" link; "Analyze and visualize your data" points to the "CHARTS" link; "Go back to your ICANN Account" points to the "Back to ICANN Account" link; "Search datasets by keywords" points to the search bar; "Access ICANN's Social Media Platform" points to the social media icons (Twitter, Facebook, LinkedIn). At the bottom, three more callout boxes point to the "API", "ABOUT", and "HELP" links, with text describing their functions.

Search and download dataset using the API

Learn more about Open Data Program and this Platform

Check out the Help page for more resources

# Home Page

ICANN One World, One Internet

Back to ICANN Account SEARCH Q Victoria Yang Logout

HOME DATA CHARTS API ABOUT HELP

## Welcome to ICANN Open Data Platform!

The goal of ICANN's Open Data Program is to provide the ICANN community with access to publicly available data. You can search, browse, view, download, and analyze the available data. Please visit the About page to learn more.

[Register to access available data and site features](#)

OPEN DATA

## By registering, your account will allow you to:

- ❖ Access and use all data available on this platform for free
- ❖ Search, browse, view, download, and analyze the data, according to the platform's terms and conditions and the license(s) applied to each datasets
- ❖ Save customized analyses
- ❖ Choose to receive notifications when selected datasets are updated
- ❖ Generate API keys and view API quota usage

# Home Page

Share

## Browse ICANN Datasets

   	<b>Domain Name Marketplace Indicators</b> <b>19</b> dataset(s)	<b>Identifier Technology Health Indicators (ITHI)</b> <b>1</b> dataset(s)	<b>Registry Functions Activity Reports</b> <b>1</b> dataset(s)	<b>Per-Registrar Transactions Reports</b> <b>11</b> dataset(s)
--	---	--	---	---

Share the ICANN Open Data Platform home page

- ❖ There are 32 datasets in Launch V1.
- ❖ Users can browse related datasets via these 4 tiles

# Home Page

List of latest 5 datasets with either the data or metadata updated

List of top 5 datasets with the most downloads

List of top 5 datasets with the most API calls

## Latest Updates

### [Number of involuntary gTLD registrar terminations](#)

Modified a day ago

### [Number of involuntary gTLD registry terminations](#)

Modified 4 days ago

### [Total number of gTLD registry operator and gTLD registrar related complaints](#)

Modified 8 days ago

### [Number of domains by ICANN region in gTLDs and ccTLDs](#)

Modified 9 days ago

### [Number of distinct gTLD registrar entities \(Total and New\)](#)

Modified 9 days ago

## Most Downloaded

### [ITHI: DNS Root Traffic Analysis](#)

8 downloads

### [Per-Registrar Transactions Report 2009](#)

3 downloads

### [Number of gTLD registrars accredited and terminated \(Total and New\)](#)

2 downloads

### [Number of domains by ICANN region in gTLDs and ccTLDs](#)

2 downloads

### [Total number of gTLD registry operator and gTLD registrar related complaints](#)

2 downloads

## Most API Calls

### [ITHI: DNS Root Traffic Analysis](#)

1225 API calls

### [Per-Registrar Transactions Report 2009](#)

724 API calls

### [Number of domains by ICANN region in gTLDs and ccTLDs](#)

548 API calls

### [Number of domains \(by TLD category\)](#)

467 API calls

### [Total number of gTLD registry operator and gTLD registrar related complaints](#)

368 API calls

Note: Metrics shown on this screen shot is for demonstration purpose only.

# Home Page

- ❖ Check out other ICANN sites
- ❖ Connect with us via ICANN Social Media Platforms
- ❖ Check out Career Opportunities at ICANN

**OTHER ICANN SITES**

<a href="#">ICANN.org</a>	<a href="#">Generic Names Supporting Organization (GNSO)</a>
<a href="#">Address Supporting Organization (ASO)</a>	<a href="#">Governmental Advisory Committee (GAC)</a>
<a href="#">At-Large</a>	<a href="#">Root Server System Advisory Committee (RSSAC)</a>
<a href="#">ICANN Community Wiki</a>	<a href="#">Security and Stability Advisory Committee (SSAC)</a>
<a href="#">Country Code Names Supporting Organization (ccNSO)</a>	

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Review our Privacy Policy, Cookies Policy and Terms of Service before using the Open Data Platform.

We are committed to continually improving this platform. We welcome your feedback, please contact us.



**Edman Perez**

IT Business Analytics & Intranet Manager

# Data Page

Number of datasets available

Sort the datasets with multiple options here

Use filters to help find the datasets

Click on the dataset to explore more

Download catalog allows users to download the entire data page along with the datasets metadata

The screenshot shows the ICANN Data Page interface with the following components:

- Navigation:** HOME, DATA, CHARTS, API, ABOUT, HELP
- Dataset Count:** 32 datasets
- Sort Options:** Sort datasets (Alphabetically), Modified, Popular, A-Z
- Filters:** Find a dataset... search bar
- Modified Filter:** 2020 (32 datasets)
- Keyword Filter:** Domain Name Marketplace Indicators (19), Registrar Monthly Report (19), Robust Competition (12), Registrar (11), Transacions (11), Marketplace Stability (4), > More
- Download catalog:** CSV, RDF (Turtle), RDF (XML), RSS feed
- Compound annual growth rate (CAGR) of number of domains (by TLD category):** Robust Competition, Domain Name Marketplace Indicators
- Mean number of gTLD registrars per distinct gTLD registrar entity:** Robust Competition, Domain Name Marketplace Indicators
- Mean registration period for domains (by gTLD category):** Domain Name Marketplace Indicators, Marketplace Stability
- ITHI: DNS Root Traffic Analysis:** ITHI, DNS, Root, Traffic
- Mean number of gTLD registries per distinct gTLD registry operator entity:** Robust Competition, Domain Name Marketplace Indicators
- Net change in number of domains (by TLD category):** Robust Competition, Domain Name Marketplace Indicators

# Dataset Page

Select the **Information** tab to find basic information about the selected dataset

**12 records**  
No active filters

**Filters**

Search records...

**Dimension**

gTLDs	12
-------	----

**Segment**

Registrar-related Complaints Received	6
Registry-related Complaints Received	6

## Total number of gTLD registry operator and gTLD registrar related complaints

**Information**

The **Domain Name Marketplace Indicators** present statistics pertaining to the marketplace for generic top-level domains (gTLDs) and country code top-level domains (ccTLDs).

ICANN org collaborated with a community Advisory Panel on this effort. The [version 1.0 indicator schema](#) outlines the indicator categories, dimensions / factors, metrics, and includes a glossary of terminology. The specific calculations performed to arrive upon the indicator values are available in the [version 1.0 indicator taxonomy](#) document.

**Total number of gTLD registry operator and gTLD registrar related complaints** shows how registrants view contract fulfillment by registrars and registries. Tied to registrant decisions to file complaints after registry/registrar interaction. Value varies as registrars and registries deliver on obligations.

**Note:**

1. ICANN Contractual Compliance Quarterly Reports, Compliance Approach & Process, Available at <https://features.icann.org/compliance/dashboard/report-list>
2. The values reported here are as of 30th June (H1) and 31st December (H2) for each calendar year.

# Dataset Page

Select the **Table** tab to view the data as table

12 records

No active filters

Filters

Search records...

Dimension

gTLDs 12

Segment

Registrar-related Complaints Received 6

Registry-related Complaints Received 6

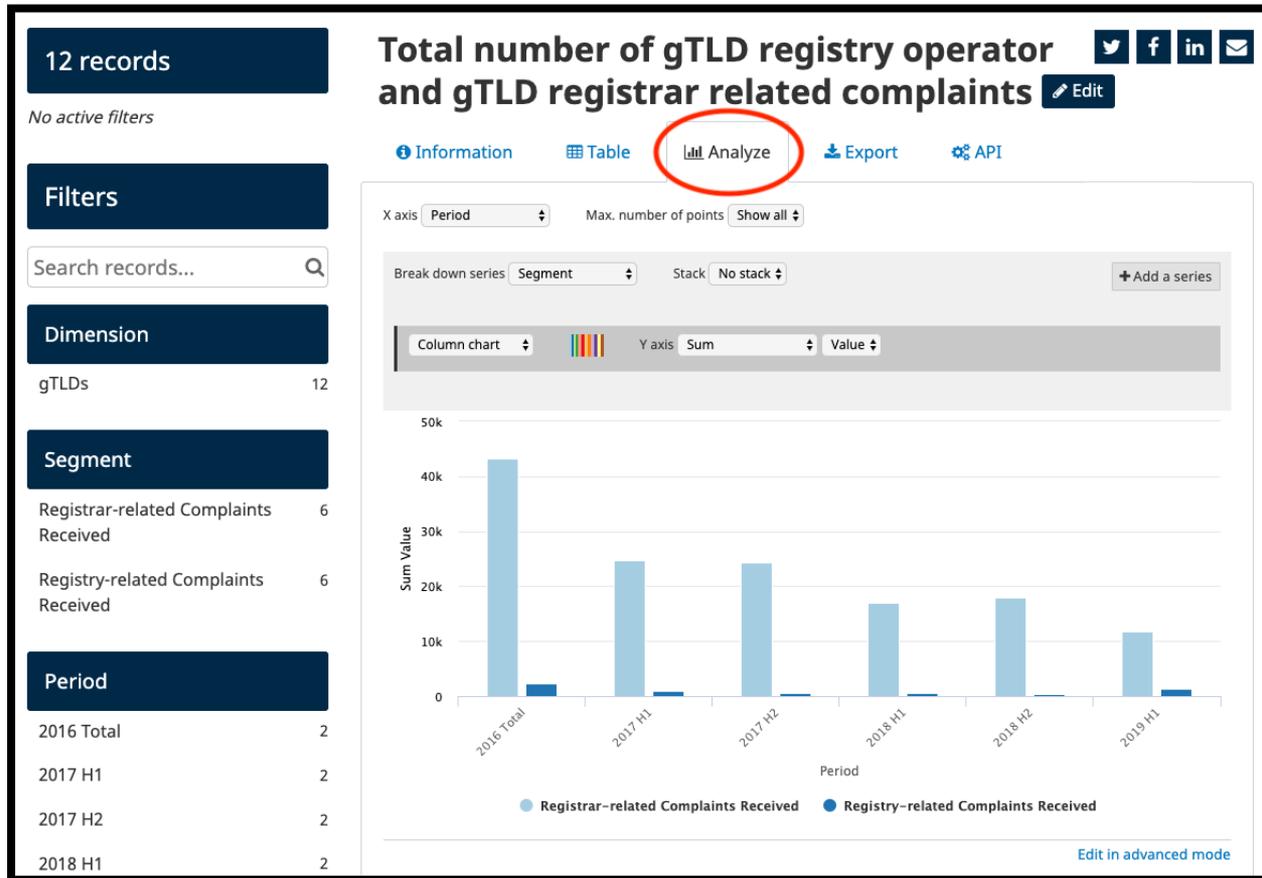
## Total number of gTLD registry operator and gTLD registrar related complaints

[Information](#) **[Table](#)** [Analyze](#) [Export](#) [API](#)

Category	Indicator	Dimension	Segment	Period	Value	Notes
etplace Stability	MS_1.1	gTLDs	Registrar-related Complaints Rec	2018 H1	17,015	
etplace Stability	MS_1.1	gTLDs	Registry-related Complaints Rece	2017 H2	597	
etplace Stability	MS_1.1	gTLDs	Registry-related Complaints Rece	2018 H2	443	
etplace Stability	MS_1.1	gTLDs	Registrar-related Complaints Rec	2017 H2	24,360	
etplace Stability	MS_1.1	gTLDs	Registrar-related Complaints Rec	2018 H2	17,957	
etplace Stability	MS_1.1	gTLDs	Registrar-related Complaints Rec	2019 H1	11,845	
etplace Stability	MS_1.1	gTLDs	Registry-related Complaints Rece	2017 H1	882	
etplace Stability	MS_1.1	gTLDs	Registry-related Complaints Rece	2018 H1	543	
etplace Stability	MS_1.1	gTLDs	Registry-related Complaints Rece	2019 H1	1,390	
etplace Stability	MS_1.1	gTLDs	Registrar-related Complaints Rec	2016 Total	43,156	
etplace Stability	MS_1.1	gTLDs	Registrar-related Complaints Rec	2017 H1	24,650	
etplace Stability	MS_1.1	gTLDs	Registry-related Complaints Rece	2016 Total	2,230	

# Dataset Page

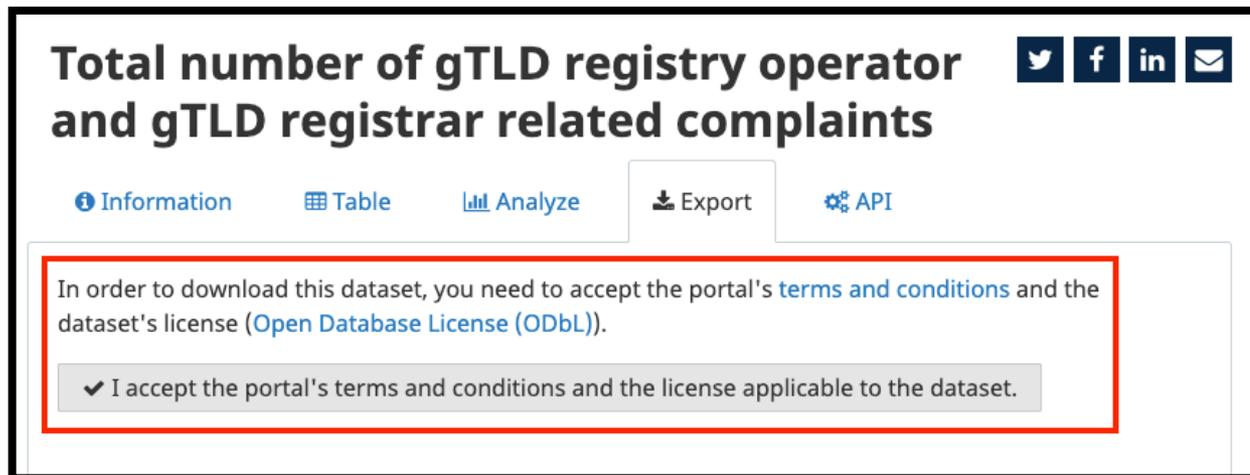
Select the **Analyze** tab to view the data as chart



Please visit the [Help page](#) for more information and other available resources.

# Dataset Page

Select the **Export** tab to export the dataset in your preferred format

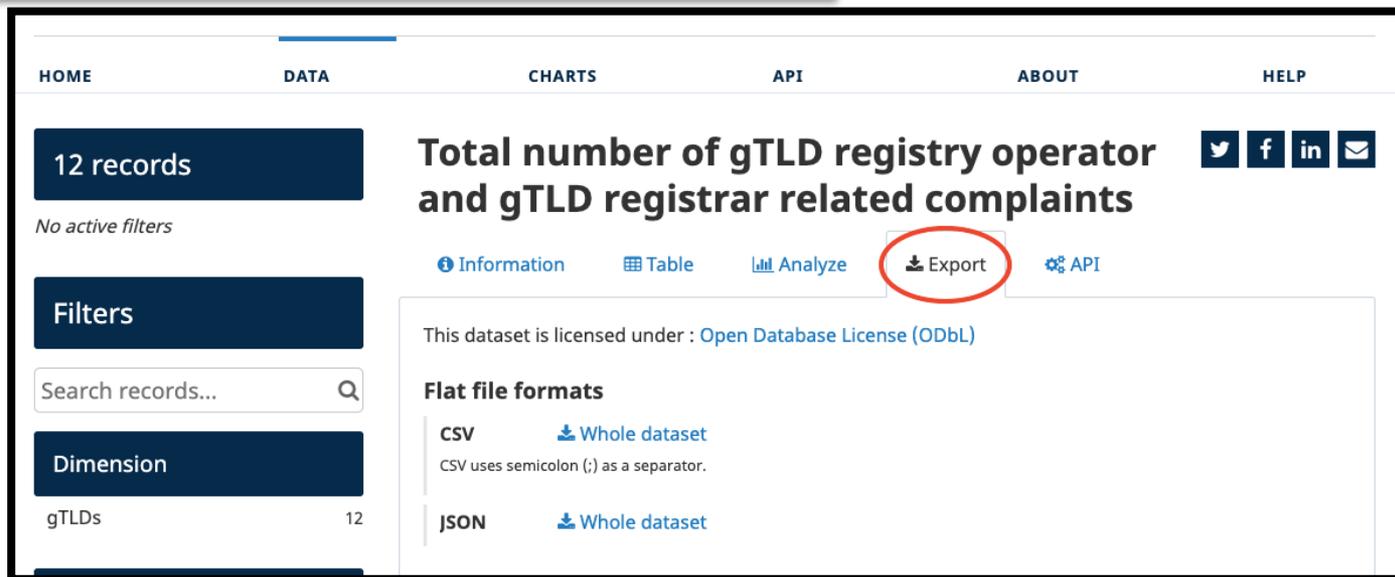


**Total number of gTLD registry operator and gTLD registrar related complaints**

Information Table Analyze **Export** API

In order to download this dataset, you need to accept the portal's [terms and conditions](#) and the dataset's license ([Open Database License \(ODbL\)](#)).

I accept the portal's terms and conditions and the license applicable to the dataset.



HOME DATA CHARTS API ABOUT HELP

12 records  
No active filters

Filters

Search records...

Dimension

gTLDs 12

**Total number of gTLD registry operator and gTLD registrar related complaints**

Information Table Analyze **Export** API

This dataset is licensed under : [Open Database License \(ODbL\)](#)

**Flat file formats**

CSV [Whole dataset](#)  
CSV uses semicolon (;) as a separator.

JSON [Whole dataset](#)

# Dataset Page

From any tab, you can share a link to a dataset on social media or by email



You also can share the dataset via embed or widget features, where applicable:

- ❖ Share: Selection will allow you to copy and paste a shareable URL
- ❖ Embed: Selection will generate the iframe code of the visualization.
- ❖ Widget: Selection will generate the widget code of the visualization.

# Other Pages:

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- ⦿ **Charts page**

- With the Chart builder tool, you can visualize multiple datasets on a single customized chart.
- Compare to the Analyze tab on a dataset page, this page will give you more options, such as combining different datasets.

- ⦿ **API page**

- The API (Application Programming Interface) is an interface for programs to communicate and exchange data.

- ⦿ Please visit the **About page** and **Help page** for more information and available resources.



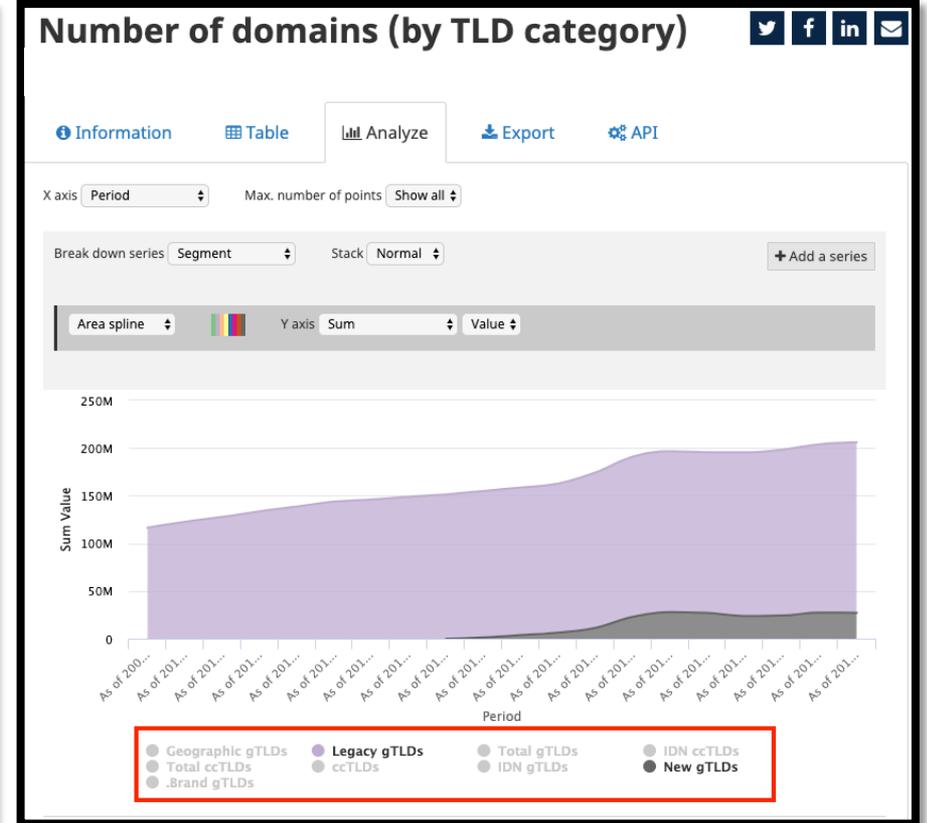
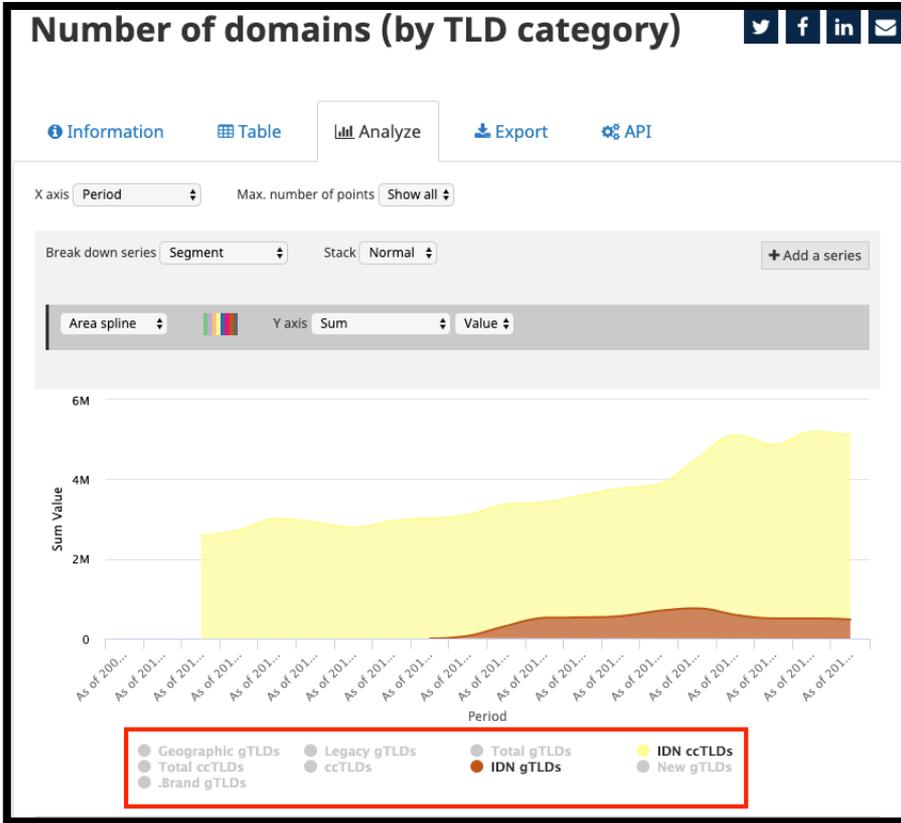
**Mukesh Chulani**  
gTLD Accounts Senior Manager

# Domain Name Marketplace Indicators

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- ⦿ The Domain Name Marketplace Indicators presents statistics pertaining to the marketplace for generic top-level domains (gTLDs) and country code top-level domains (ccTLDs).
- ⦿ ICANN org collaborated with a community Advisory Panel to develop relevant indicator schema and taxonomy.
- ⦿ ICANN org has released 2 refreshes so far, which are available on [icann.org](https://icann.org) in Excel sheet format. These indicators are updated twice a year.
- ⦿ Transitioning from Excel sheet on icann.org to Open Data Platform not only provides users ability to refine the data with search and filter functionality, but also the opportunity to visualize data and tell their stories.

# Example





**Alain Durand**  
Principal Technologist

# Identifier Technology Health Indicator (ITHI)

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- In 2017, ICANN started the project to monitor the health of the registered identifiers ecosystem through a set of Identifier Technology Health Indicators (ITHI) or ITHI Metrics. The eight metrics (indicators) along with its detailed data can be seen on the site <https://ithi.research.icann.org>.
- Metrics 3 (M3) – DNS Root Traffic Analysis is published via Launch V1.
- The move of this metric (ITHI M3) to the Open Data Platform will enable users to access all historical data and timely update with new data. Today, data published on ITHI site is a snapshot of past 3 months; however, in Open Data Platform, it includes monthly data beginning of Jan 2018, and data will be modified every month with additional monthly data.
- ICANN org will continue maintaining the ITHI site in parallel with publishing data on Open Data Platform.



**Russ Weinstein**

Sr. Director, gTLD Accounts & Services

# Monthly Registry Reporting

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- ⦿ Registry Functions Activity Reports and Per-Registrar Transaction Reports are submitted to ICANN as part of contractual obligations.
- ⦿ Both reports are currently published on [icann.org](https://icann.org).
- ⦿ Both reports are not published until three months after the end of the month to which the report relates.
- ⦿ Moving both reports from icann.org to Open Data Platform made the data easier to consume. E.g. the Per-Registrar Transaction Report structured by year contains approximately 1 million records (# of rows), users can consume all TLD transactions data of 12 months by accessing 1 dataset.
- ⦿ The data will continue to be available in its current format on icann.org until FY21 Q2, after which, the data will be discontinued on icann.org and only be available via the Open Data Platform.

# Example

**985,358 records**

No active filters

### Filters

#### TLD

- com 28,538
- net 28,258
- org 20,269
- info 4,744
- biz 3,832
- xyz 3,377
- > More

#### Month

- 12 85,310
- 11 85,129
- 10 84,531
- 09 83,936
- 08 83,500
- 07 83,056

## Per-Registrar Transactions Report 2018

[Information](#) [Table](#) [Analyze](#) [Export](#) [API](#)

	TLD	Year	Month	registrar-name	iana-id	total-domains	total-r
1	miami	2018	02	porkbun_mm	1,861	44	23
2	miami	2018	02	Hosting Ukraine LLC	2,374	0	0
3	miami	2018	02	Domain Research, LLC	2,484	0	0
4	miami	2018	10	Register.com, Inc.	9	14	28
5	miami	2018	10	COREhub, S.R.L.	15	0	0
6	miami	2018	10	Tucows Domains Inc.	69	147	97
7	miami	2018	10	1&1 Internet SE	83	215	284
8	miami	2018	10	Whois Networks Co., Ltd.	100	1	4
9	miami	2018	10	Ascio Technologies, Inc. Danmarl	106	24	35
10	miami	2018	10	Secura GmbH	111	0	0
11	miami	2018	10	GoDaddy.com, LLC	146	6,174	533
12	miami	2018	10	PSI-USA, Inc. dba Domain Robot	151	31	20
13	miami	2018	10	CSC Corporate Domains, Inc.	299	193	49
14	miami	2018	10	Sea Wasp, LLC	411	0	0
15	miami	2018	10	DomainName, Inc.	450	0	0
16	miami	2018	10	EnCirca, Inc.	455	0	0
17	miami	2018	10	DomainSite, Inc.	466	0	0
18	miami	2018	10	Nom-iq Ltd. dba COM LAUDE	470	28	11
19	miami	2018	10	Epik, Inc.	617	5,520	6
20	miami	2018	10	Name.com, Inc.	625	112	89
21	miami	2018	10	IP Mirror Pte Ltd dba IP MIRROR	890	0	0
22	miami	2018	10	Net 4 India Limited	1,007	0	0

[Share](#) [Embed](#) [Widget](#)

<https://opendata.icann.org/explore/embed/dataset/per-registrar-transactions-report-2018/tat>

# Example

4,744 records

Active filters Clear all

TLD info

## Filters

Search records... 

### TLD

com 28,538  
net 28,258  
org 20,269  
info 4,744  
biz 3,832  
xyz 3,377

[> More](#)

### Month

01 409  
02 409  
03 409

## Per-Registrar Transactions Report 2018



[Information](#)

[Table](#)

[Analyze](#)

[Export](#)

[API](#)

	TLD 	Year	Month	registrar-name	iana-id 	total-domains 	total-name
1050	info	2018	01	101domain GRS Ltd	1,011	2,874	70
1051	info	2018	01	10Dencehispahard SL	1,403	1,880	58
1052	info	2018	01	AB Name ISP	1,371	1,451	19
1053	info	2018	01	Abraham Lincoln, LLC	2,289	11	0
1054	info	2018	01	Achilles 888, LLC	2,290	11	0
1055	info	2018	01	Address Creation, LLC	270	20	0
1056	info	2018	01	Adomainofyourown.com LLC	1,158	323	4
1057	info	2018	01	Alantron Bilisim Ltd Sti.	898	70	2
1058	info	2018	01	Alexander the Great, LLC	1,702	10	0
1059	info	2018	01	Alice's Registry, Inc.	275	197	2
1060	info	2018	01	Allearthdomains.com LLC	1,159	309	2
1061	info	2018	01	Alpnames Limited	1,857	489	95
1062	info	2018	01	Arcanes Technologies	3,245	43	2
1063	info	2018	01	Arctic Names, Inc.	1,340	154	0
1064	info	2018	01	Ares 888, LLC	2,293	6	0
1065	info	2018	01	Ascio Technologies, Inc. Danmarl	106	55,110	277
1066	info	2018	01	Astutium Limited	1,471	126	0
1067	info	2018	01	Atak Domain Hosting Internet ve	1,601	92	12
1068	info	2018	01	AtlanticFriendNames.com LLC	1,157	325	2
1069	info	2018	01	Azdomainz LLC	1,391	4	0
1070	info	2018	01	BB Online UK Limited	134	257	8
1071	info	2018	01	Belmontdomains.com LLC	1,163	303	6

[Share](#)

[Embed](#)

[Widget](#)

<https://opendata.icann.org/explore/embed/dataset/per-registrar-transactions-report-2018/tat>





**Victoria Yang**  
Operations Senior Program Manager

# What's Next



The Platform URL is  
[opendata.icann.org](https://opendata.icann.org)



The Platform will be  
open to public later  
today



ICANN org will publish  
an announcement  
about the launch of  
Open Data Platform



Register your account to  
access the available  
datasets



Let us know your  
feedback via  
“Contact Us” on the  
Platform



ICANN org will continue  
improving the Platform  
and datasets based on  
your feedback and  
assessing new datasets  
for publication.

# Questions and Answers



- ❖ Please raise your hand in zoom if you want to ask a question
- ❖ The Remote Participants Manager will manage the queue.
- ❖ Unmute your microphone to ask questions when is your turn
- ❖ Mute your microphone when not speaking



- ❖ Type your questions in the chat
- ❖ The Remote Participants Manager will read out your question(s).



Questions / comments in Spanish and French, along with other questions / comments we could not respond to during the session, will be published on the ICANN67 session page after this session



We are committed to continually improving this Platform.  
We welcome your feedback, please contact us via the  
**“Contact us”** on the Home Page footer.

# Thank You Very Much



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[slideshare/icannpresentations](https://slideshare/icannpresentations)



[soundcloud/icann](https://soundcloud/icann)