



ICANN
62

PANAMA CITY

25–28 June 2018

POLICY FORUM

By the Numbers

ICANN | PUBLIC MEETINGS

What is an ICANN Public Meeting?

ICANN Public Meetings provide the opportunity for an internationally diverse group of individuals and organizations to come together to discuss and develop policies for the Internet's naming systems.

ICANN's international meetings have been a staple of ICANN's multistakeholder bottom-up consensus-building model since its formation in 1998.

Why do we publish technical data from ICANN Public Meetings?

Just like any other event, ICANN meetings need to innovate, adapt, and evolve to meet their purpose: to support ICANN's multistakeholder model. One of the challenges that conference organizers face is to improve the conference, meeting after meeting, and maximize attendees' engagement and satisfaction.

This is where meeting data comes into play. This data provides reliable information on what attendees want, what ICANN is doing well, and where ICANN has opportunities to improve. By leveraging this data, we can be a stable and transparent organization that is responsive to our community's needs.

For ICANN62, beyond the graphs and charts, we have published the raw data for each area. One of our biggest challenges is to standardize the information that we collect to ensure that data is consistent. Over the past few meetings, we have automated the collection of data through improvements in the registration system and meeting management software. Ultimately, our goal is to continue to improve on our metrics and to provide our community with more valuable data.

If you would like to learn more about ICANN Meetings Technical Services or have questions about this data report, please contact: meetings@icann.org.

Where can I find more information about ICANN Public Meetings?

Each meeting has a dedicated website that acts as a broad guide to the conference with details on the venue, information about the local area, a program of social events during the week, and answers to frequently asked questions about ICANN meetings.

To find out how to participate, go to <https://meetings.icann.org/en/about>.

To learn more about the Fellowship Program, go to <http://www.icann.org/en/fellowships>.

For a schedule of past and upcoming meetings, go to <http://meetings.icann.org/calendar>.

For the press page, go to <http://www.icann.org/en/press>.

If you belong to an organization that is interested in having an exhibit at a meeting or in sponsoring a meeting, please contact: meeting-sponsorship@icann.org.

Table of Contents

1. Attendee Profile

2. Session Statistics

3. Schedule Website and Mobile App Statistics

4. Remote Participation Statistics

5. General Information

6. Network Operations Center

7. Network Statistics and Client Profiles

8. Appendix

ICANN62 By the Numbers

Attendee Profile



Attendee Profile

Attendee Profile for Panama City, Panama

ICANN62 had 1,113 attendees, with 303 coming from the Latin America and the Caribbean region.

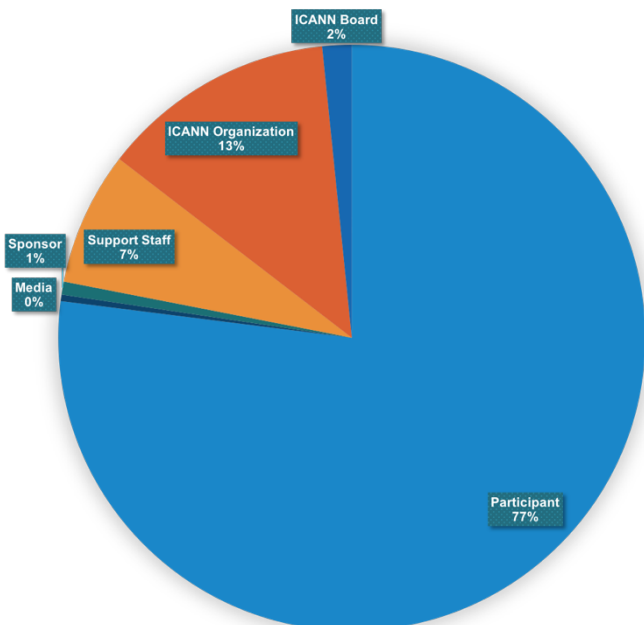
250 participants were attending an ICANN Public Meeting for the first time.

ICANN Public Meetings are a central principle of ICANN's multistakeholder model because they provide a venue for advancing policy work, conducting outreach, exchanging best practices, conducting business deals, interacting with members of the ICANN community, and with ICANN Board and staff, and learning about ICANN.

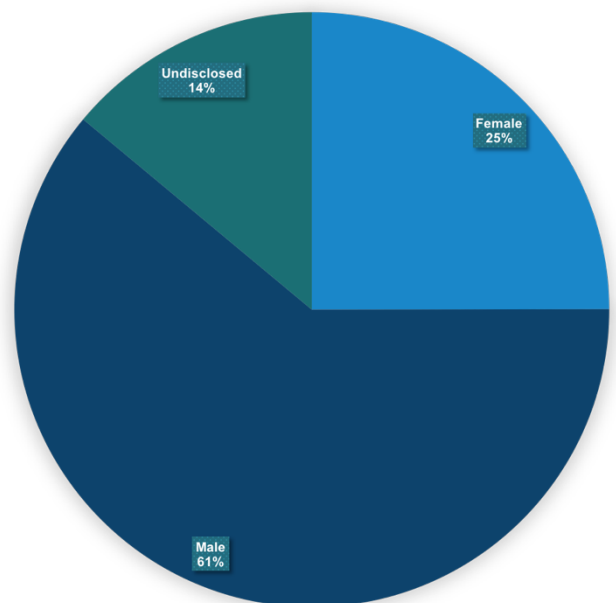
For this section, the attendee profile metrics are derived from data that users provided during the meeting registration process. Attendees were not required to answer all questions.



ICANN62 Attendee Profile by Badge Type

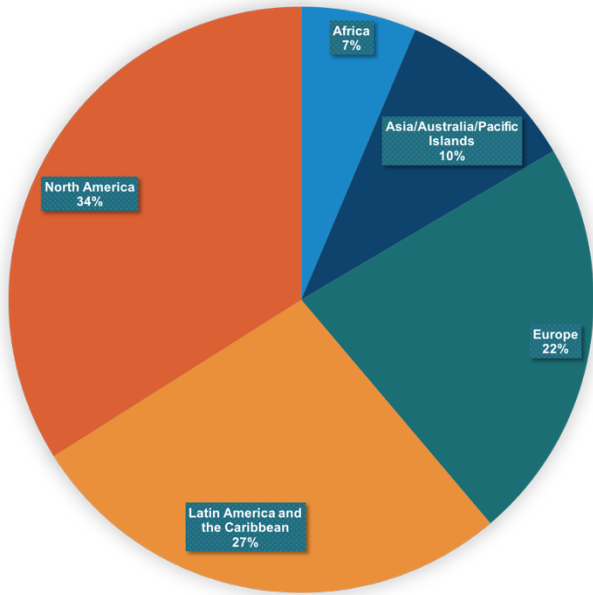


ICANN62 Attendee Profile by Gender

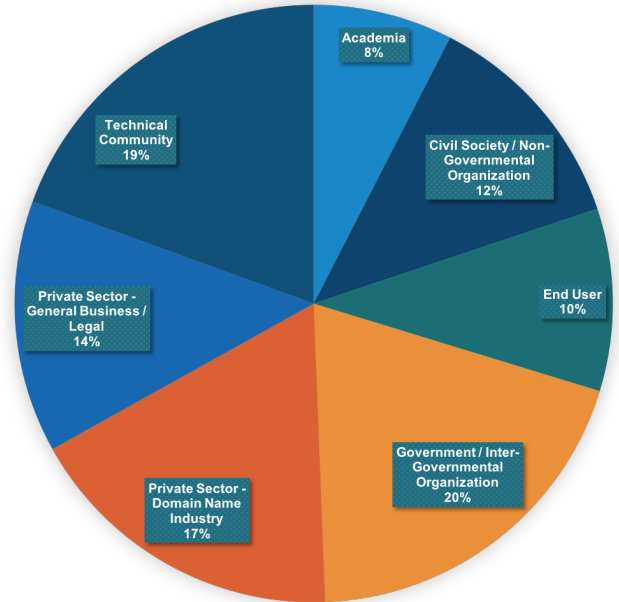


Attendee Profile

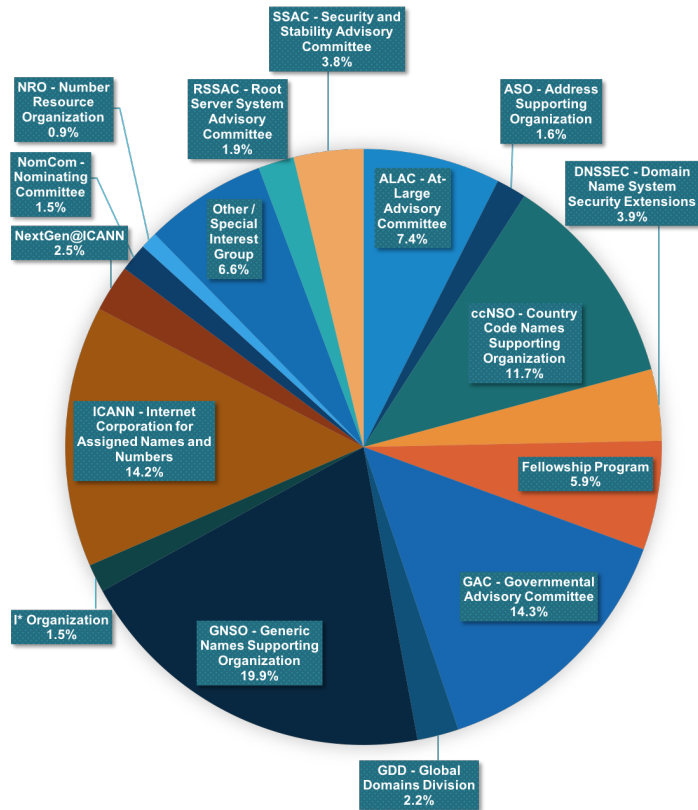
ICANN62 Attendee Profile by ICANN Regions



ICANN62 Attendee Profile by Stakeholder Classification



ICANN62 Attendee Profile by Groups of Interest



Attendee Profile by Region

Attendee Profile by ICANN Regions

Geographic diversity is fundamental to the ICANN organization. The ICANN Bylaws (Article VI, Section 5) currently define five geographic regions: Africa, Asia/Australia/Pacific, Europe, Latin America/Caribbean, and North America.

The ICANN geographic regions were originally defined to ensure regional diversity in the composition of the ICANN Board. Subsequently, these definitions were also applied to the Generic Names Supporting Organization (GNSO), At-Large Advisory Committee (ALAC), and the Country Code Names Supporting Organization (ccNSO).

The attendee profile metrics for ICANN62 are derived from data that users provided during the meeting registration process.

Selections are based on the five ICANN geographic regions shown on the map below.

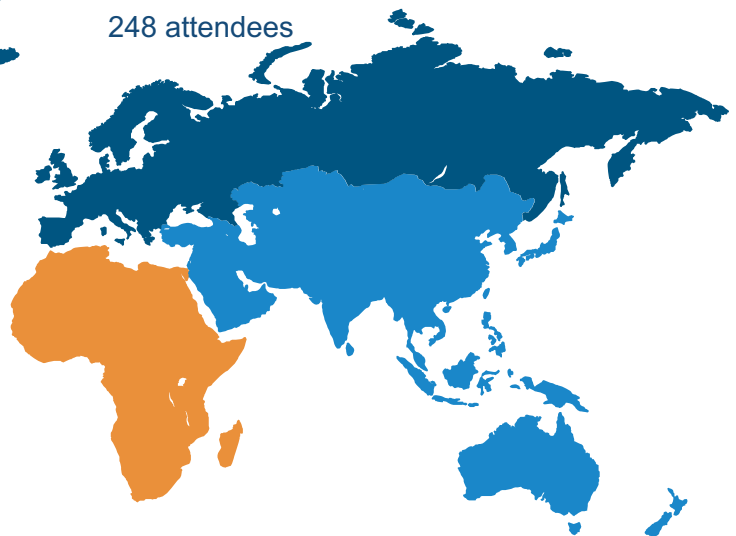
North America

378 attendees



Europe

248 attendees



Latin America/ Caribbean

303 attendees



Africa

71 attendees



Asia/Australia/ Pacific

113 attendees



Africa: Regional Attendee Profile

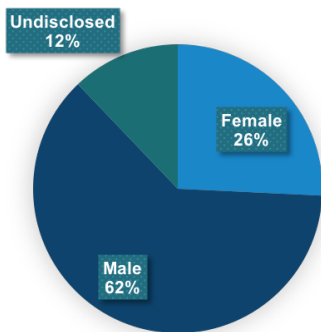
Attendee Profile for Africa



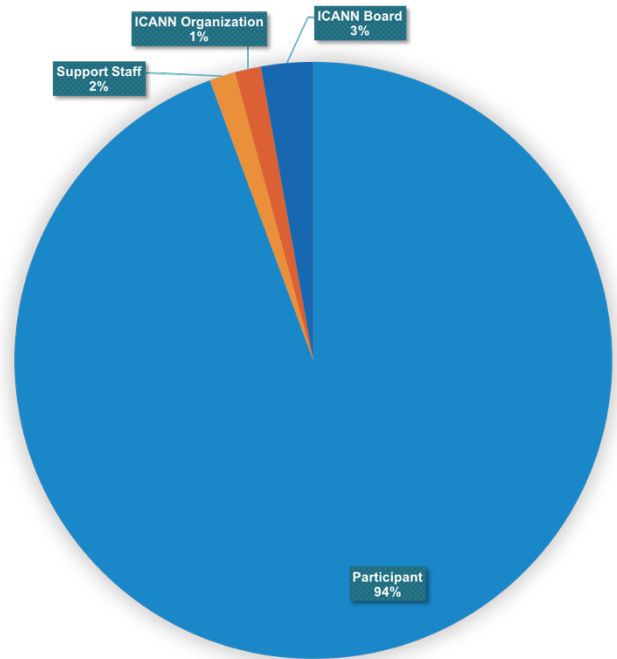
The attendee profile metrics for ICANN62 are derived from data that users provided during the meeting registration process.

71 Regional Participants
4 Newcomers

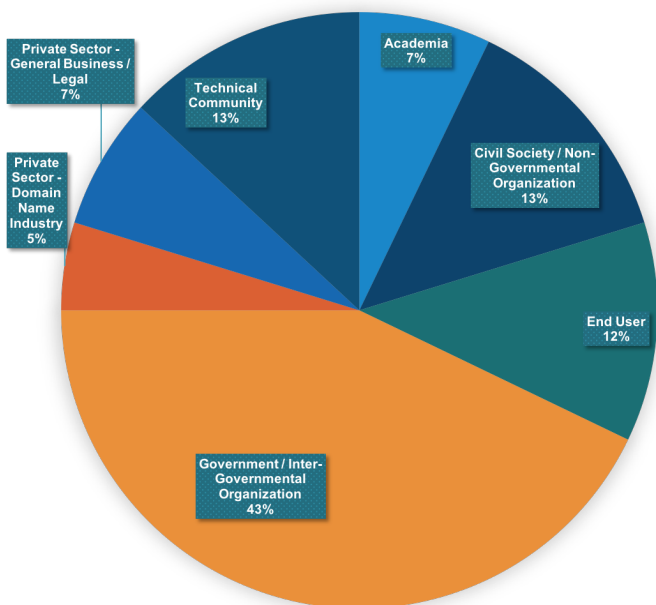
ICANN62 African Region Attendee Profile by Gender



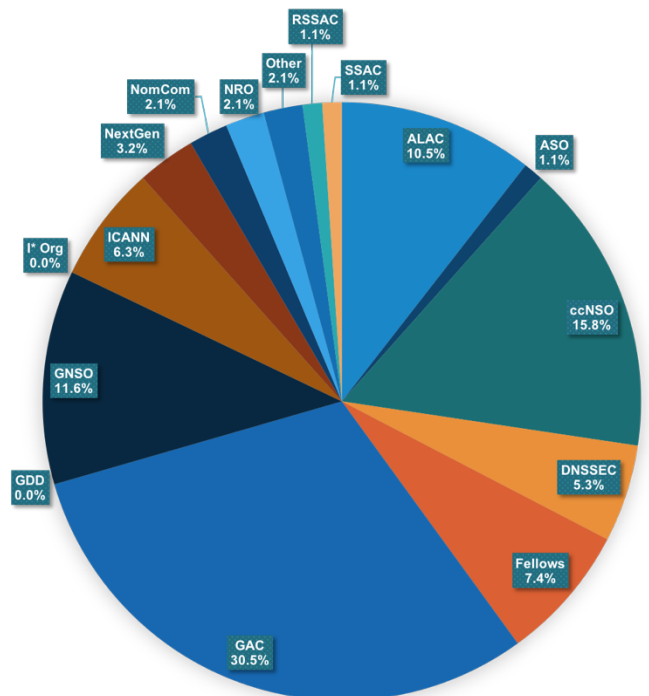
ICANN62 African Region Attendee Profile by Badge Type



ICANN62 African Region Attendee Profile by Stakeholder Classification



ICANN62 African Region Attendee Profile by Groups of Interest



Asia/Australia/Pacific: Regional Attendee Profile

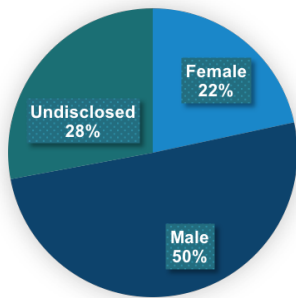


Attendee Profile for Asia, Australia, and the Pacific

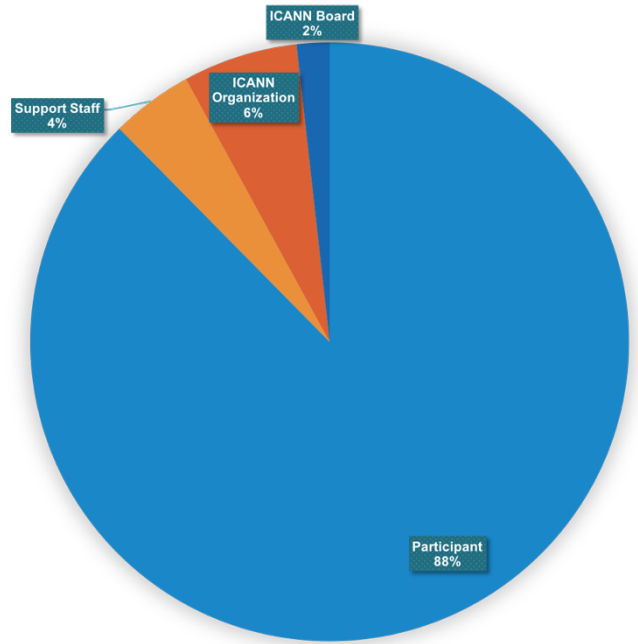
The attendee profile metrics for ICANN62 are derived from data that users provided during the meeting registration process.

113 Regional Participants
18 Newcomers

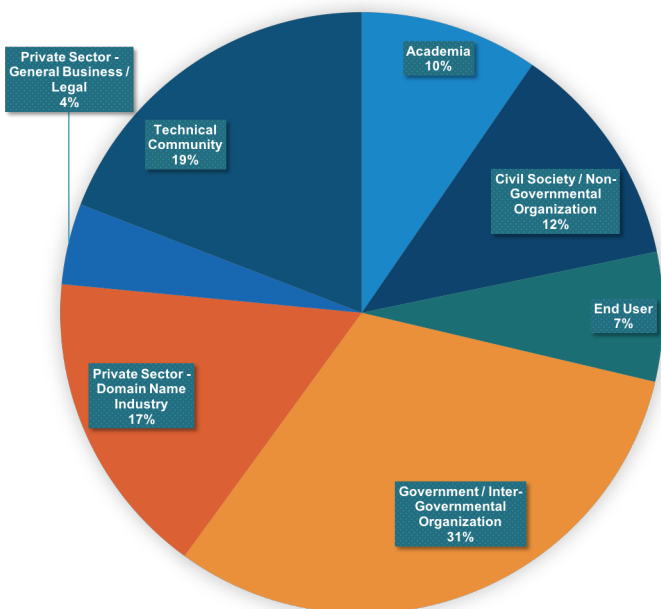
ICANN62 Asian/Australian/Pacific Region Attendee Profile by Gender



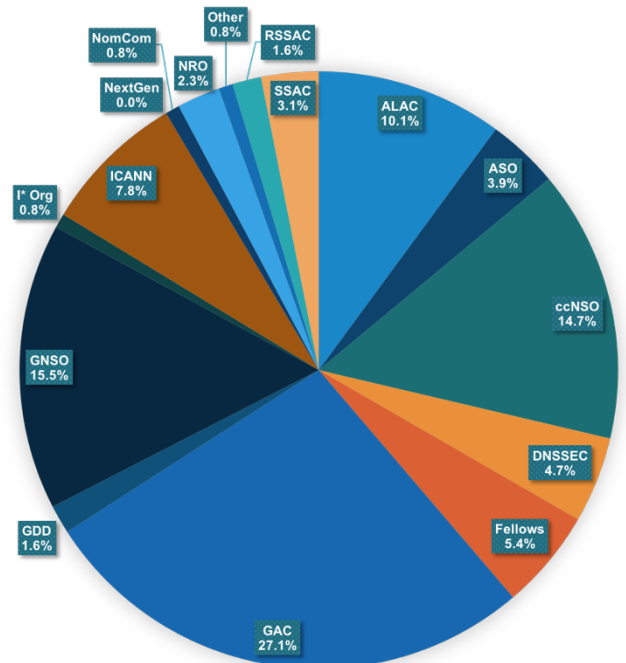
ICANN62 Asian/Australian/Pacific Region Attendee Profile by Badge Type



ICANN62 Asian/Australian/Pacific Region Attendee Profile by Stakeholder Classification



ICANN62 Asian/Australian/Pacific Region Attendee Profile by Groups of Interest



Europe: Regional Attendee Profile

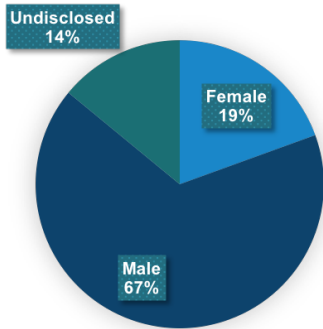


Attendee Profile for Europe

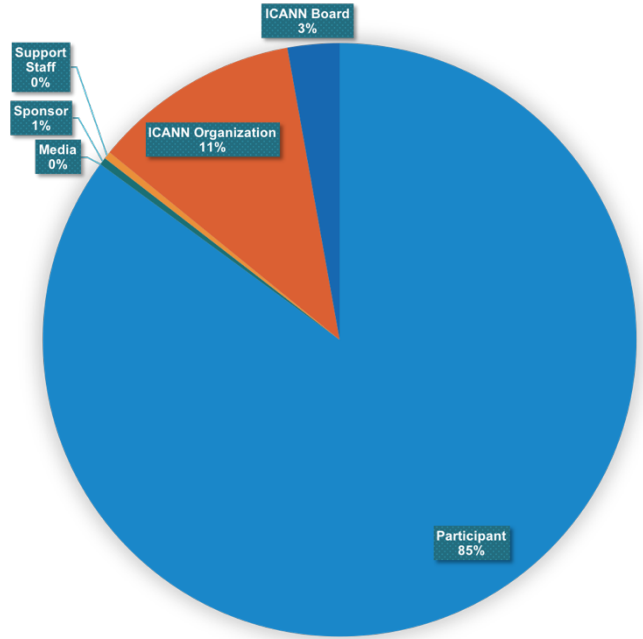
The attendee profile metrics for ICANN62 are derived from data that users provided during the meeting registration process.

248 Regional Participants
31 Newcomers

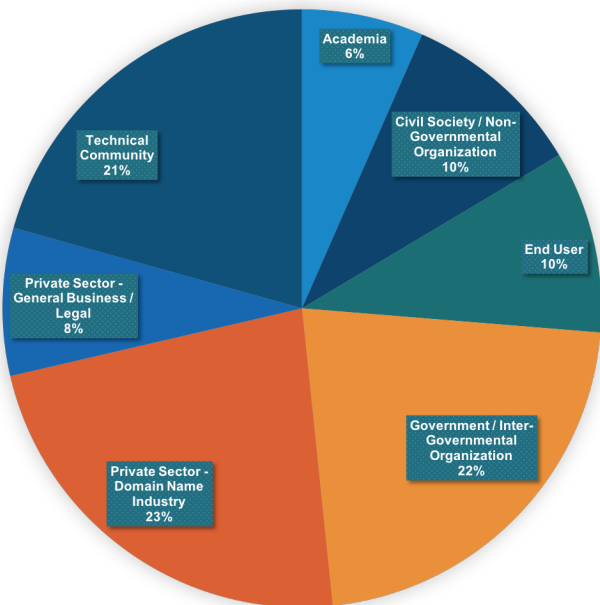
ICANN62 European Region Attendee Profile by Gender



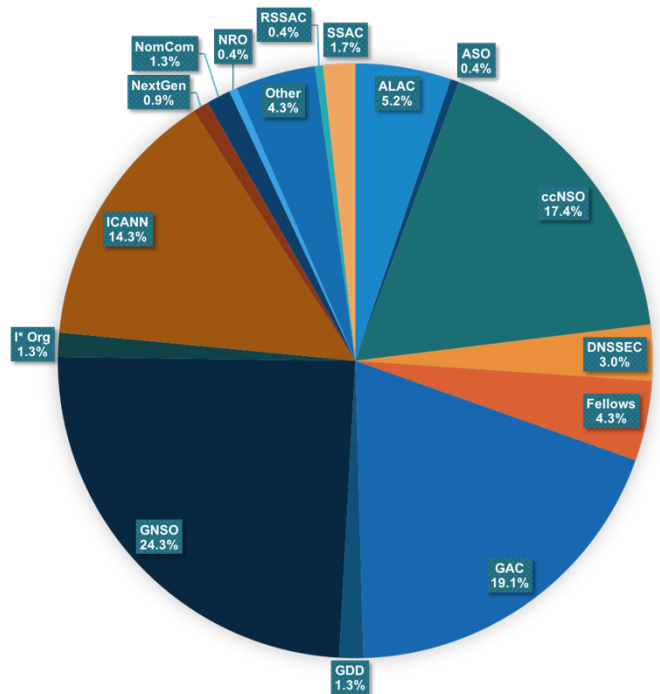
ICANN62 European Region Attendee Profile by Badge Type



ICANN62 European Region Attendee Profile by Stakeholder Classification



ICANN62 European Region Attendee Profile by Groups of Interest



Latin America/Caribbean: Regional Attendee Profile

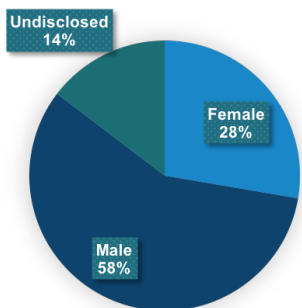
Attendee Profile for Latin America and the Caribbean Islands



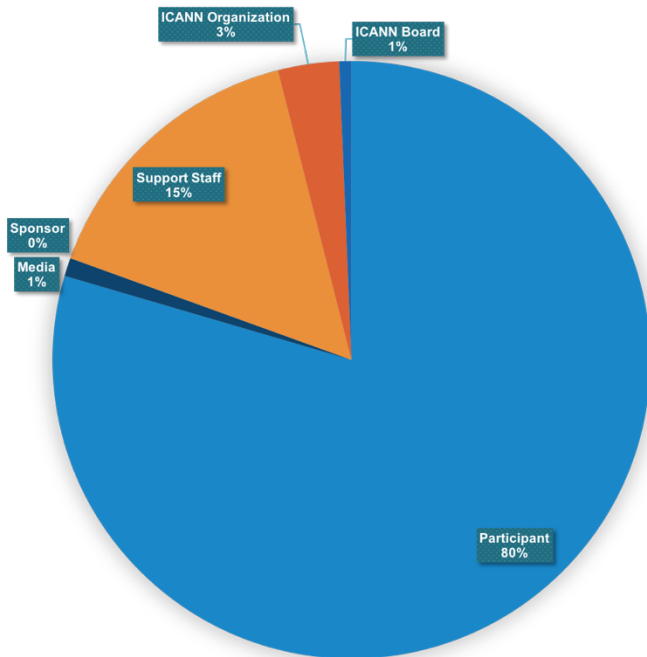
The attendee profile metrics for ICANN62 are derived from data that users provided during the meeting registration process.

303 Regional Participants
171 Newcomers

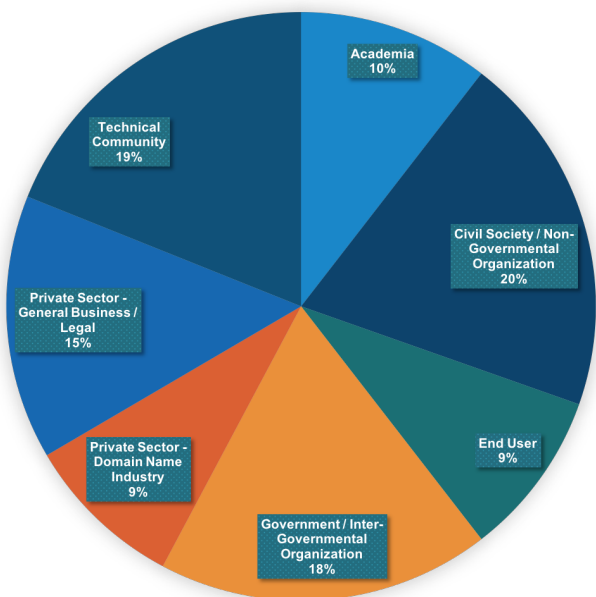
ICANN62 Latin American/Caribbean Region Attendee Profile by Gender



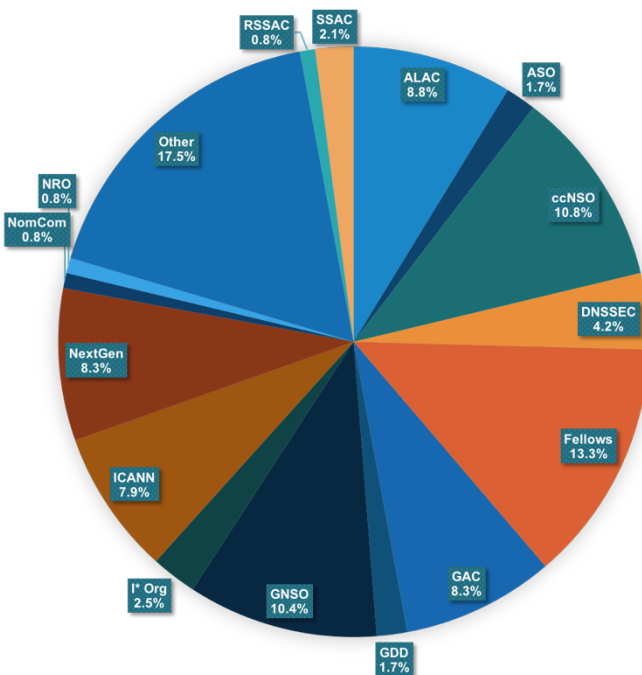
ICANN62 Latin American/Caribbean Region Attendee Profile by Badge Type



ICANN62 Latin American/Caribbean Region Attendee Profile by Stakeholder Classification



ICANN62 Latin American/Caribbean Region Attendee Profile by Groups of Interest



North America: Regional Attendee Profile

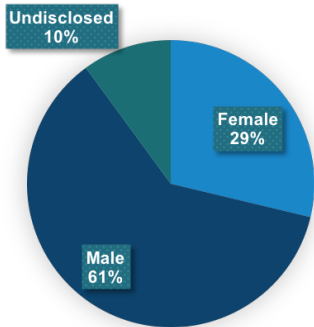
Attendee Profile for North America

The attendee profile metrics for ICANN62 are derived from data that users provided during the meeting registration process.

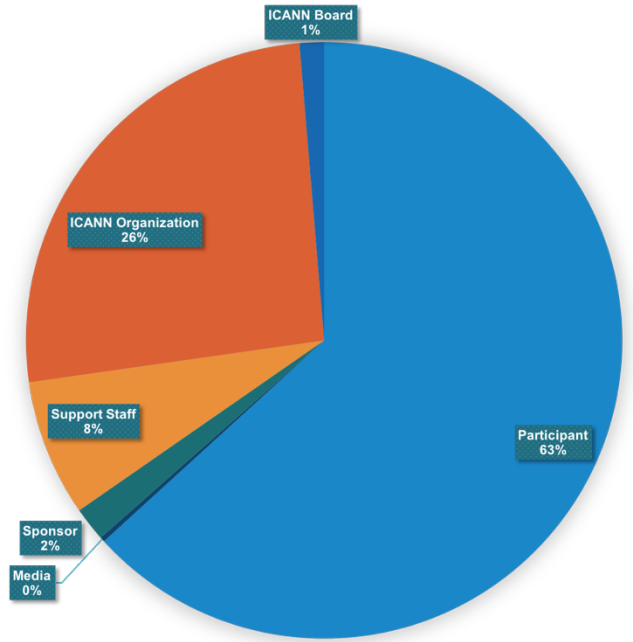


378 Regional Participants
26 Newcomers

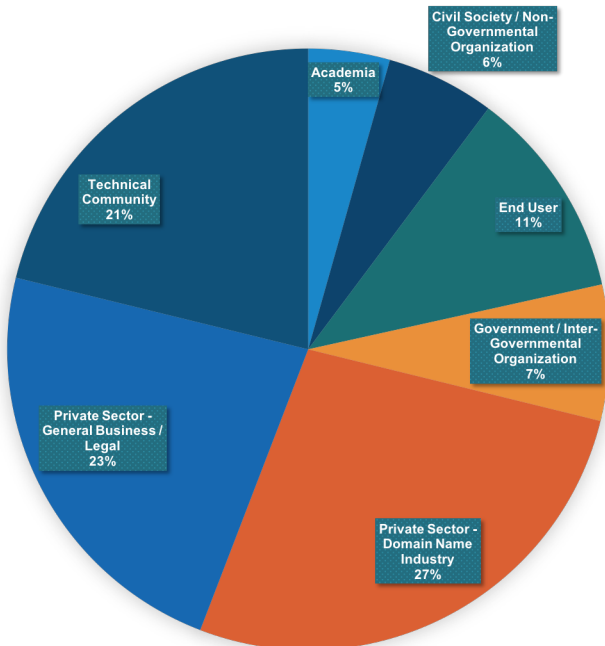
ICANN62 North American Region Attendee Profile by Gender



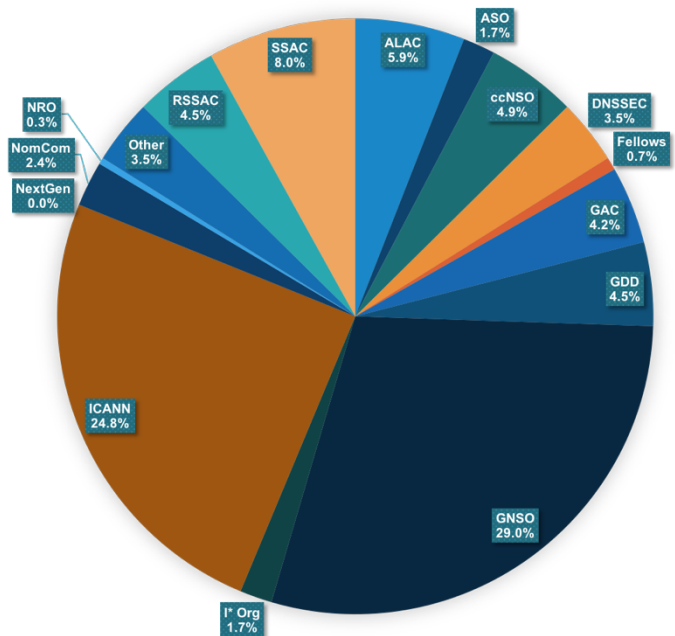
ICANN62 North American Region Attendee Profile by Badge Type



ICANN62 North American Region Attendee Profile by Stakeholder Classification



ICANN62 North American Region Attendee Profile by Groups of Interest



ICANN62 By the Numbers

Session Statistics



Session Statistics

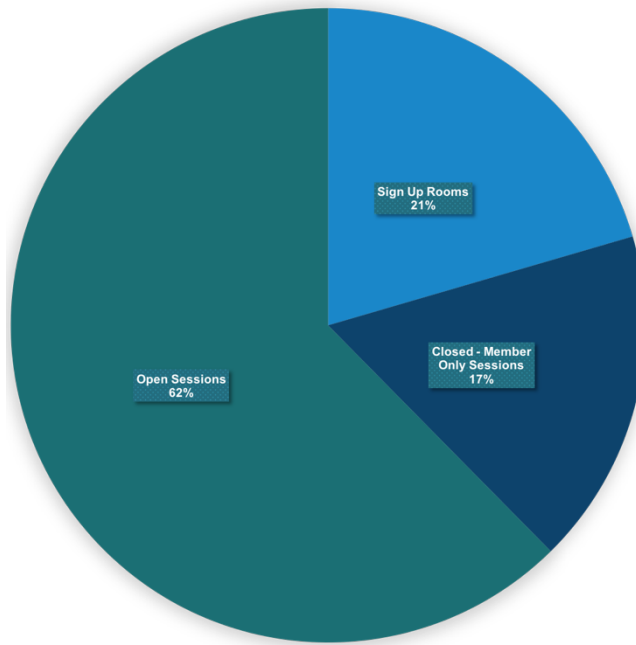
Session Statistics for Panama City, Panama

Each “type” of session has a different structure and purpose:

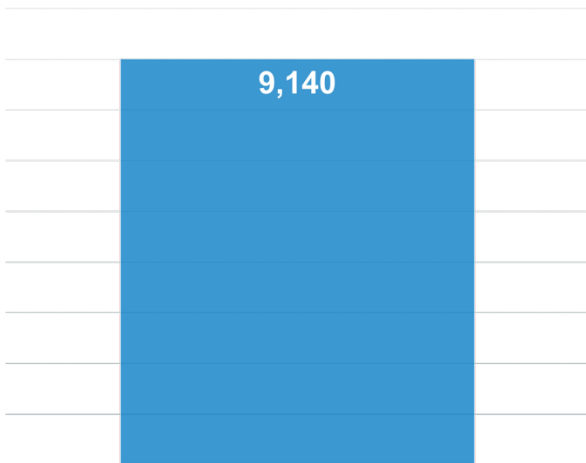
- Open sessions are open to everyone, and are supported with remote participation tools for additional outside participation.
- Closed sessions are typically open only to members of a specific group, and may have limited remote participation.
- Sign Up Rooms are on-site impromptu meetings, held in session rooms that have open time slots.

This chart breaks down meetings conducted by session type.

Counts by Session Type

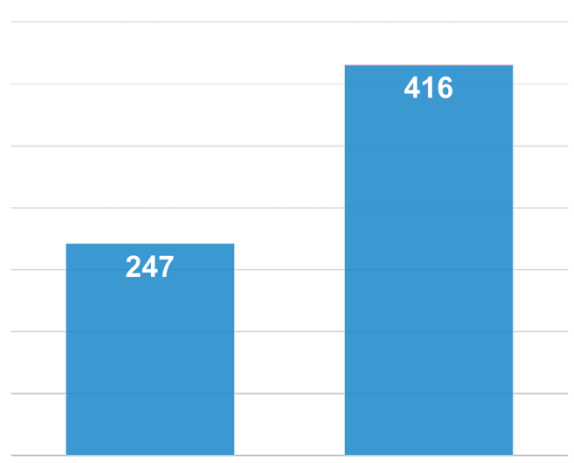


Actual Attendance for All Sessions



Based on Hourly Counts of Session Rooms

Session Count and Session Hours



Total Session Counts

Total Session Hours

Session Statistics

Session Attendance – Top 50 Sessions

This list ranks the top 50 sessions based on attendance. The attendance number comes from midsession manual headcounts done every hour. The count includes only people who were physically present in the session room at the time of the count.

Session Title	Attendance
1 Welcome and Multi-Stakeholder Ethos Award Presentation	420
2 High Interest Session: Community Input to GNSO Expedited PDP Charter Development	312
3 Cross-Community Session: WHOIS/RDS Policy: Post-GDPR Development and Next Steps	312
4 Cross-Community Session: Accreditation and Access to Non-Public WHOIS Data Post-GDPR	286
5 Joint Meeting: GAC and GNSO	223
6 Cross-Community Session: Geographic Names at the Top-Level (1 of 2)	210
7 GAC: GDPR Overview	207
8 GAC: Preparation for meeting with the ICANN Board	149
9 Joint Meeting: GAC and ccNSO (1 of 2)	143
10 GAC: Discussion on GDPR	140
11 GAC: Board and GAC Recommendation and Implementation Meeting	133
12 GAC: Communique Drafting	119
13 GAC: Opening Plenary and Overview of Weekly GAC Sessions	118
14 GNSO: Subsequent Procedures PDP Working Group Face-to-Face Session 1	117
15 GNSO Working Session	109
16 Joint Meeting: GAC and ALAC	109
17 Cross-Community Session: Geographic Names at the Top-Level (2 of 2)	108
18 Joint Meeting: ICANN Board and GAC	107
19 GNSO - RrSG - GDPR: Tucows' Lessons from 1 Month into Tiered Access	104
20 High Interest Session: RDS-WHOIS2 Review	104
21 GAC: Discussion on GDPR	102
22 GAC: High Level Governmental Meeting Preparation	95
23 GAC: Preliminary Report on the Capacity Building Workshops	89
24 GAC: CCWG Auction Proceeds Update	88
25 GAC: CCWG on Accountability Work Stream 2 Update	88
26 GAC: Communique Drafting	83
27 ccNSO: Members Meeting Day 1 (2 of 3)	80
28 GNSO: Council Meeting	75
29 GAC: Daily overview of sessions	73
30 GNSO: CPH - GDPR Discussion Group [C]	73
31 GAC: Communique Drafting	72
32 DNSSEC Workshop (2 of 2)	68
33 GAC: Discussion on Advice Register	68
34 GAC: New gTLD Subsequent Procedures WT1-5 (incl. GAC Geographic Names WG) Discussion	68
35 GNSO EPDP on Temporary Specification for gTLD Registration Data - Initiation Request and Charter DT meeting	68
36 GAC: Independent Secretariat and Other GAC Operational Matters	68
37 GNSO: Subsequent Procedures PDP Working Group Face-to-Face Session 2	67
38 Tech Day (1 of 3)	67
39 High Interest Session: CCWG-Accountability WS2 Final Report	66
40 GNSO: CSG - Open Meeting	65
41 GAC Onboarding and Travel Support Discussion	65
42 DNSSEC Workshop (1 of 2)	64
43 Joint Meeting: ccNSO & GNSO Councils	62
44 ccNSO: Members Meeting Day 2 (4 of 4)	62
45 Fellowship Daily Session	60
46 Tech Day (2 of 3)	59
47 ccNSO: Members Meeting Day 1 (1 of 3)	59
48 GNSO Council Wrap-Up	59
49 GAC: Communique Review	57
50 GNSO: Subsequent Procedures PDP Working Group Face-to-Face Session 3	57

ICANN62 By the Numbers

Schedule Website and Mobile App Statistics



Schedule Website and Mobile App Statistics

Schedule Platform | 62.schedule.icann.org

For ICANN62, ICANN utilized Pathable for a second time as a new schedule platform for a integrated mobile and web application. This platform is accessibility compliant and improves the participants' experience by utilizing a single application across multiple devices and platforms.



Schedule Platform Quick Stats

Attendees Logged In

543

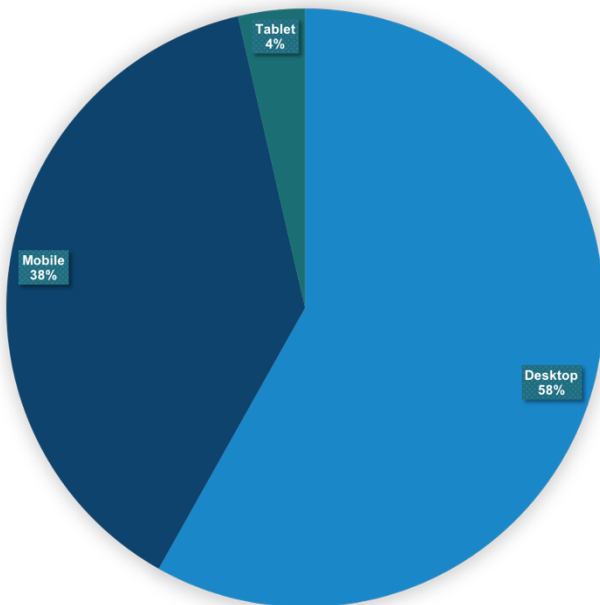
Schedules Created or Downloaded

795

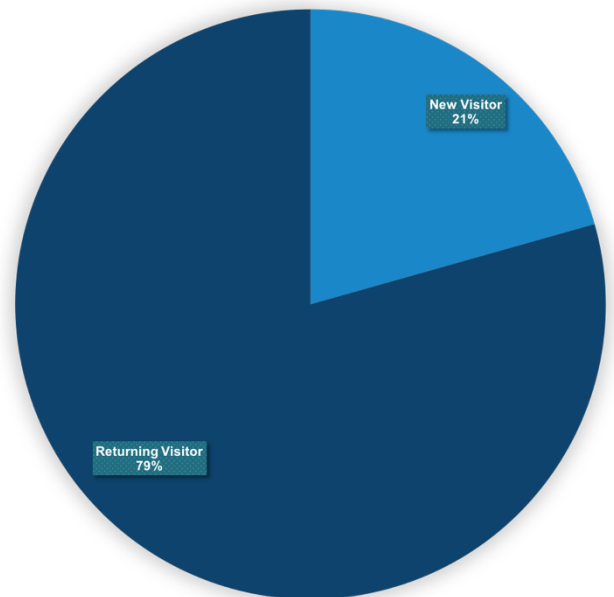
Average Session Duration

7.6 Minutes

Schedule Platform Usage by Device Category



Schedule Platform Traffic Type



Schedule Website and Mobile App Statistics

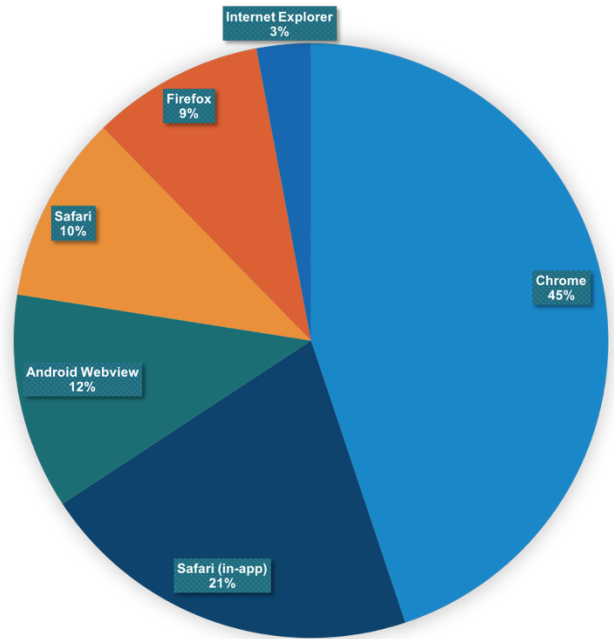
Schedule Platform | 62.schedule.icann.org

Before a meeting, the website includes language streaming links, remote participation links, and presentations. Shortly after a session concludes, the audio recording links are automatically posted.

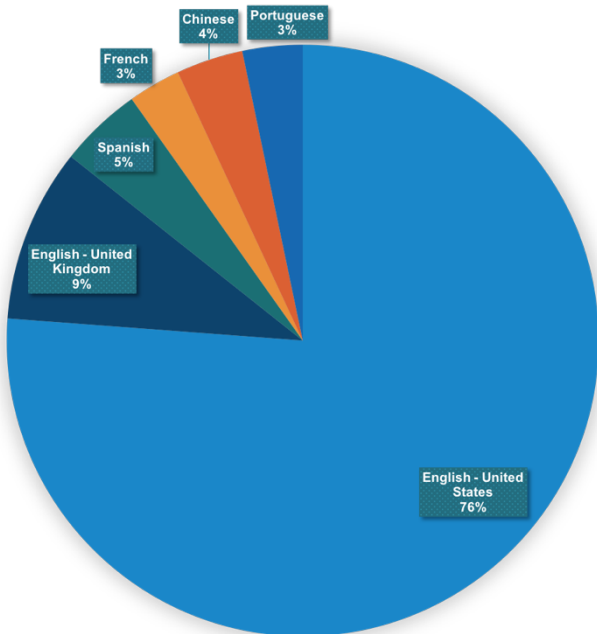
The Meetings Technical Services (MTS) team digitally tests all audio recordings before they are posted. Periods of dead air are removed so listeners don't have to fast-forward through gaps in a recording. When MTS completes this process, the Language Services Department processes and posts the associated transcripts.



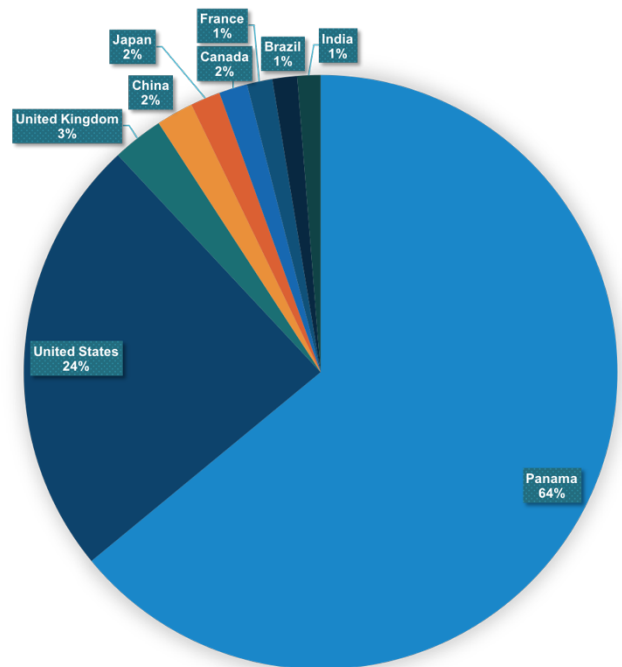
Schedule Platform Usage by Browser



Schedule Platform Users by Language



Schedule Platform Top Usage by Geography



Schedule Website and Mobile App Statistics

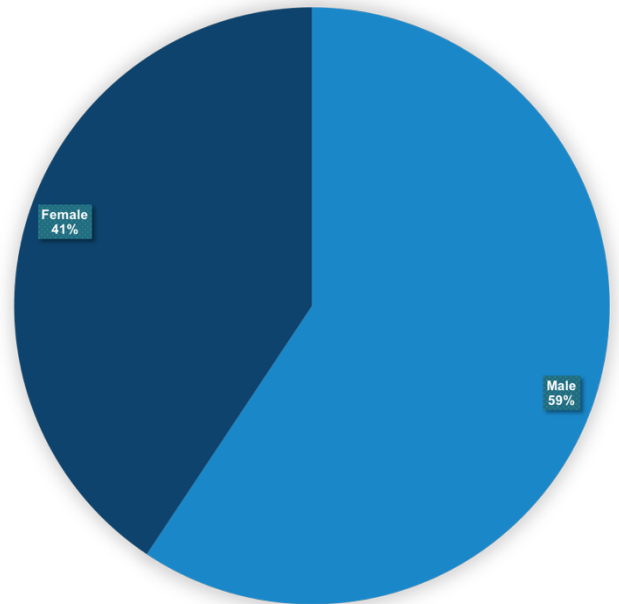
Schedule Platform | 62.schedule.icann.org

The use of Google Analytics permits ICANN to analyze data from [schedule.icann.org](https://62.schedule.icann.org) in one place, allowing for a deeper understanding of the ICANN community’s experience with the schedule website.

Google Analytics collects information about demographics and interests available in browser cookies. It uses Android or iOS Advertising IDs to generate identifiers that include information about demographics and gender. This data is summarized with data sampling and infers the characteristics of an individual visitor. For more information on Google Analytics, visit <https://support.google.com/analytics/>.

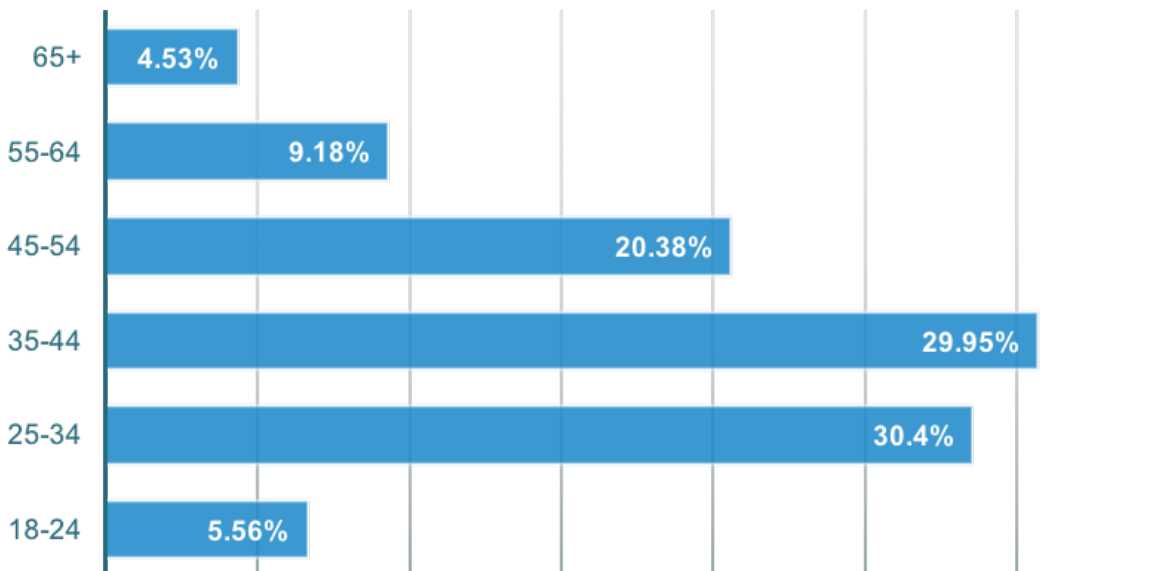


Schedule Platform Demographics by Gender



* Gender demographics data is based on 38.96% of total users

Schedule Platform Demographics by Age



* Age demographics data is based on 39.16% of total users

Schedule Website and Mobile App Statistics



Schedule Platform Total Sessions
(60-day period)

 **15,227**
ICANN62 | Panama City

29,314
ICANN61 | San Juan

Schedule Platform Total Users
(60-day period)

 **3,139**
ICANN62 | Panama City

5,867
ICANN61 | San Juan

Schedule Platform Total Page Views
(60-day period)

 **78,855**
ICANN62 | Panama City

167,905
ICANN61 | San Juan

Schedule Platform
Average Pages per Session

 **5.18**
ICANN62 | Panama City

5.73
ICANN61 | San Juan

Schedule Platform
Average Session Duration
[H:MM:SS]

 **0:05:41**
ICANN62 | Panama City

0:06:16
ICANN61 | San Juan

Schedule Platform
Average Bounce Rate

 **23.42%**
ICANN62 | Panama City

23.58%
ICANN61 | San Juan

ICANN62 By the Numbers

Remote Participation Statistics



Remote Participation

Remote Participation

A very important facet of ICANN meetings is remote participation. This section presents metrics related to the services provided on-site during meetings.

Services Provided:

Adobe Connect – Visual platform with presentations, participant chat, video of session room, and other tools. Recordings of meetings are posted after the session concludes. A mobile app version is also available on app stores.

Video Streaming – Video and audio streamed live to Livestream.com is only for plenary rooms. All other rooms are streamed video via Adobe Connect

Audio Streaming – MP3 audio links for all languages available for a session, giving participants a choice of language. There are audio streams available for those with limited connectivity.

Scribing – Closed captioning is a live stream of text transcribed from the session’s audio, and is available in English for several sessions.

Adobe Connect Total Unique Participants

2,421

This count includes participants connected on-site to Adobe Connect.

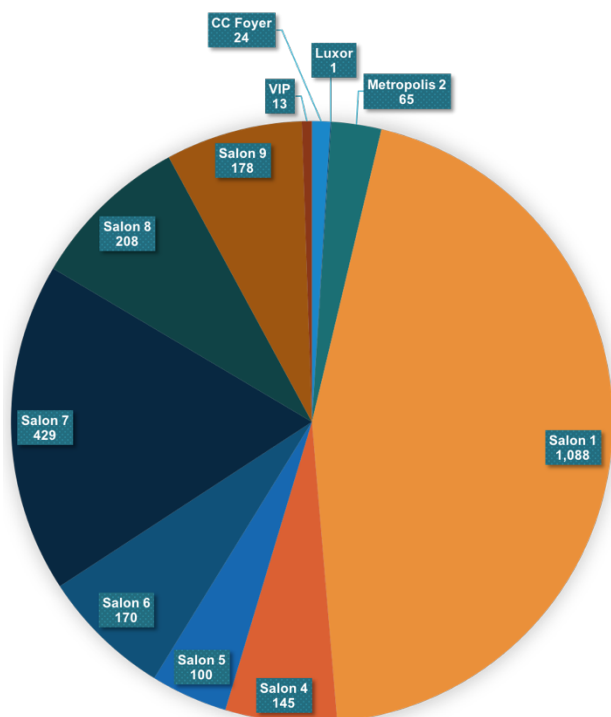
Adobe Connect Data Report Notice



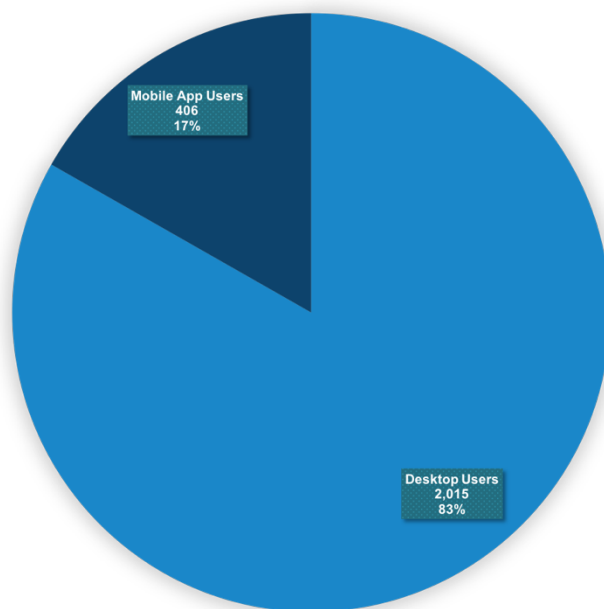
Due to new security protocols put in place with Adobe Connect, we are unable to capture and report participation metrics on “closed” sessions.

All the data reported for Adobe Connect is only for the “open” and public sessions.

Adobe Connect Unique Users by Session Room



Adobe Connect Total Unique Participants by Device



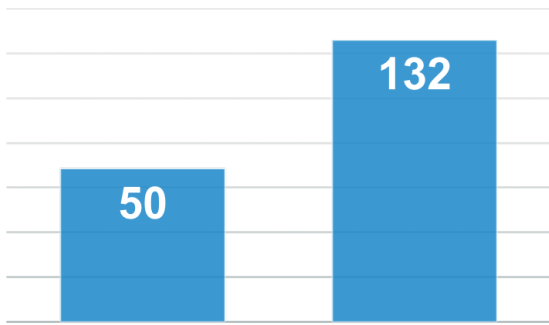
Remote Participation – Audio

Total Recorded Audio Hours of Meetings

450 Hours



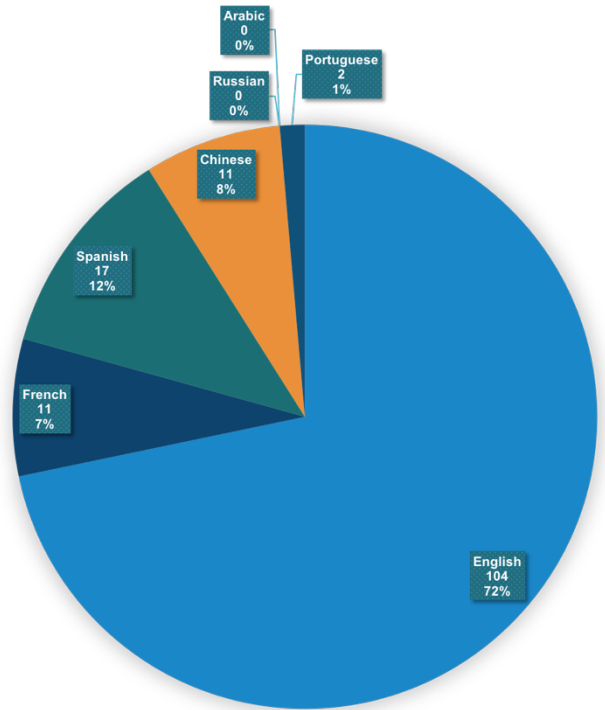
Total Telephone Calls and Hours



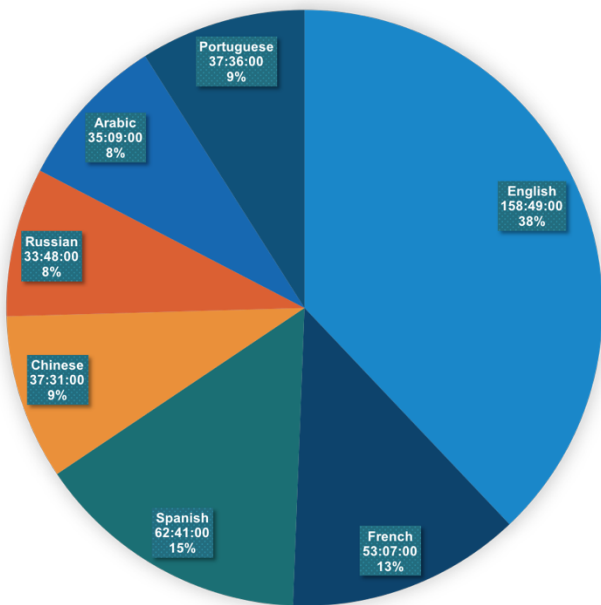
Total Telephone Calls

Total Telephone Hours

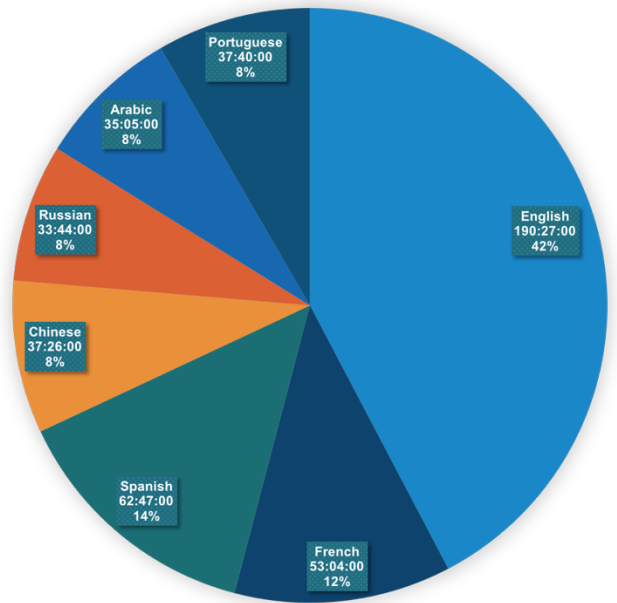
Total Streaming Audio Listeners by Language



Total Streaming Audio Hours [HH:MM:SS] by Language



Total Recorded Audio Hours [HH:MM:SS] by Language



Remote Participation – Live Stream Video

Remote Participation – Livestream.com Viewership

This list ranks the top sessions based on the total count of viewers to the live stream video. At this time, not all sessions have live stream video available. ICANN is working to make live stream video available for all public sessions, and expand live stream availability on ICANN's YouTube channel.



Livestream.com - Session Title		Total Views
1	Cross-Community Session: WHOIS/RDS Policy: Post-GDPR Development and Next Steps	176
2	Cross-Community Session: Accreditation and Access to Non-Public WHOIS Data Post-GDPR	154
3	GAC: Discussion on GDPR	81
4	Cross-Community Session: Geographic Names at the Top-Level (1 of 2)	70
5	GNSO EPDP on Temporary Specification for gTLD Registration Data	64
6	GAC: GDPR Overview	58
7	GAC: Opening Plenary and Overview of Weekly GAC Sessions	51
8	Joint Meeting: ICANN Board and GAC	50
9	Welcome and Multi-Stakeholder Ethos Award Presentation	45
10	CCWG-Accountability WS2 Face to Face Plenary	39
11	High Interest Session: Community Input to GNSO Expedited PDP Charter Development	35
12	High Interest Session: CCWG-Accountability WS2 Final Report	30
13	Joint Meeting: GAC and GNSO	30
14	GAC: Board and GAC Recommendation and Implementation Meeting	28
15	GAC: Discussion on GDPR	28
16	GAC Capacity Building Workshop: Understanding the ICANN Ecosystem	23
17	GAC: High Level Governmental Meeting Preparation	22
18	High Interest Session: RDS-WHOIS2 Review	21
19	Joint Meeting: GAC and ccNSO (1 of 2)	21
20	Cross-Community Session: Geographic Names at the Top-Level (2 of 2)	20
21	GAC: Preparation for meeting with the ICANN Board	20
22	GAC: Human Rights and International Law Working Group	18
23	GAC: New gTLD Subsequent Procedures WT1-5 (incl. GAC Geographic Names WG) Discussion	17
24	GAC: Communique Drafting	16
25	GAC CBW: Welcome and session on the global Internet Governance Ecosystem	14
26	Joint Meeting: GAC and ALAC	14
27	GAC CBW: Consumer protection, GDPR and the current status of WHOIS	12
28	GAC CBW: Security, Stability, and Resiliency (SSR) of Internet Unique Identifiers	12
29	GAC: Preliminary Report on the Capacity Building Workshops	12
30	GAC: Communique Review	11
31	GAC: Discussion on Advice Register	11
32	GNSO Policy Briefing	11
33	GAC Capacity Building Workshop: Governments in ICANN: The role of the GAC	10
34	GAC CBW: Best practice and collaboration	9
35	GAC: CCWG on Accountability Work Stream 2 Update	9
36	Joint Meeting: GAC and ccNSO (2 of 2)	8
37	GAC CBW: Understanding the ICANN Policy Development Process	6
38	GAC: CCWG Auction Proceeds Update	6
39	GAC: Independent Secretariat and Other GAC Operational Matters	6
40	GAC: Website Update	6
41	GAC CBW: CCTLDs current issues and the role of governments -USRWG CCTLD FAQ	4
42	GAC Meeting with GNSO Contracted Parties on GDPR	4
43	GAC: Daily overview of GAC sessions	3
44	GAC: Daily overview of sessions	3
45	GAC Onboarding and Travel Support Discussion	2
46	GAC: NomCom Working Group	2

1,292

Remote Participation – Audio Streams

Remote Participation – Top 40 Sessions

This list ranks the top 40 sessions based on the peak count of listeners to the web audio stream. All open sessions provide web audio streams. Blank space denotes that a specific language was not available for a session. “-” denotes that a specific language had no listeners during the noted session.

Session Title	Web Audio Stream Listeners by Language						
	English	French	Spanish	Chinese	Russian	Portuguese	Arabic
1 High Interest Session: Community Input to GNSO Expedited PDP Charter Development	6	1	---	---	---	---	---
2 GAC: Preparation for meeting with the ICANN Board	1	---	4	1	---	---	---
3 LACRALO Open House	1	---	4	---	---	---	---
4 GNSO - RfSG - GDPR: Tucows' Lessons from 1 Month into Tiered Access	4	---	---	---	---	---	---
5 CCWG-Accountability WS2 Face to Face Plenary	3	1	1	---	---	---	---
6 GAC: Opening Plenary and Overview of Weekly GAC Sessions	3	1	---	1	---	---	---
7 Cross-Community Session: WHOIS/RDS Policy: Post-GDPR Development and Next Steps	3	1	---	1	---	---	---
8 Cross-Community Session: Accreditation and Access to Non-Public WHOIS Data Post-GDPR	3	---	---	1	---	---	---
9 GNSO: Placeholder for PDP Discussion	3	---	---	---	---	---	---
10 GNSO: RfSG - Members Meeting	3	---	---	---	---	---	---
11 GNSO: CPH - TechOps Meeting	3	---	---	---	---	---	---
12 GNSO Policy Briefing	2	---	---	---	---	---	---
13 GNSO: Subsequent Procedures PDP Working Group Face-to-Face Session 1	2	---	---	---	---	---	---
14 DNSSEC Workshop (1 of 2)	2	---	---	---	---	---	---
15 GAC: Preliminary Report on the Capacity Building Workshops	2	---	---	1	---	---	---
16 GAC: GDPR Overview	---	---	1	2	---	---	---
17 Tech Day (1 of 3)	2	---	---	---	---	---	---
18 Tech Day (2 of 3)	2	---	---	---	---	---	---
19 Cross-Community Session: Geographic Names at the Top-Level (1 of 2)	1	1	1	2	---	---	---
20 GNSO EPDP on Temporary Specification for gTLD Registration Data - Initiation Request and Charter DT meeting	2	---	---	---	---	---	---
21 cNSO: Members Meeting Day 1 (2 of 3)	2	---	---	---	---	---	---
22 GNSO: IPC Open Meeting	2	---	---	---	---	---	---
23 cNSO: Members Meeting Day 1 (3 of 3)	2	---	---	---	---	---	---
24 Joint Meeting: ccNSO & GNSO Councils	2	---	---	---	---	---	---
25 GNSO: Review of all Rights Protection Mechanisms in all gTLDs (1 of 3)	2	---	---	---	---	---	---
26 CCWG IG Face-to-Face Meeting	2	---	---	---	---	---	---
27 GNSO: CPH - GDPR Discussion Group	2	---	---	---	---	---	---
28 GNSO Council Wrap-Up	2	---	---	---	---	---	---
29 GAC Capacity Building Workshop: Governments in ICANN: The role of the GAC	1	---	---	---	---	---	---
30 GAC CBW: Security, Stability, and Resiliency (SSR) of Internet Unique Identifiers	1	---	---	---	---	---	---
31 cNSO: Strategic & Operational Planning Standing Committee Meeting	1	---	---	---	---	---	---
32 GNSO: NCSG - GNSO Board Members Meeting	1	---	---	---	---	---	---
33 NextGen Presentations	1	---	---	---	---	---	---
34 DNSSEC Workshop (2 of 2)	1	---	---	---	---	---	---
35 GNSO: Subsequent Procedures PDP Working Group Face-to-Face Session 2	1	---	---	---	---	---	---
36 GNSO Working Session	1	---	---	---	---	---	---
37 ALAC and Regional Leaders Working Session (3 of 7)	---	1	1	---	---	---	---
38 GAC: New gTLD Subsequent Procedures WTI-5 (incl. GAC Geographic Names WG) Discussion	1	---	---	---	---	---	---
39 Tech Day (3 of 3)	1	---	---	1	---	---	---
40 GAC: Discussion on GDPR	---	---	---	---	---	---	---

ICANN62 By the Numbers

General Information



General Information

General Statistics for ICANN62



Most Steps Walked in One Day
by an MTS Tech

29,781

14.02 **22.85**
Miles Km

Average Walking Distance
of MTS Tech per Day



6.04 **9.72**
Miles Km

Televisions Deployed



50

Conference Chairs Set Up



2,995

Flip Chart Markers



90+

Electrical Outlets Used



225

Coffee Machines Used



8

Waiters & Service Staff



200+

Water Coolers



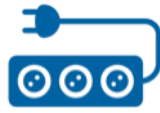
16

General Information

Equipment Deployed for ICANN62



International Power Strips



300

Rolls of Gaffers Tape



125

Laptops



46

Mac Minis



33

Telephones



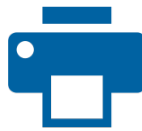
27

Switches



36

Printers



15

Registration iPads



22

Conference Microphones



356

Communication Radios



56

Wireless Access Points



44

General Information

ICANN Equipment Shipped to ICANN62

Much like a touring band, ICANN learned over time that the most cost-effective method of ensuring that meeting participants have a positive experience is to sea freight our own equipment to ICANN meetings. We ship critical equipment, then rent the remaining equipment locally to help promote the local economy.

The following depicts the equipment shipped to ICANN62.

ICANN-Owned Equipment Shipment Weight



Based on 69 kilograms / 152 lbs. per burlap sack of Panamanian coffee beans

ICANN62 By the Numbers

Network Operations Center



Network Operations Center

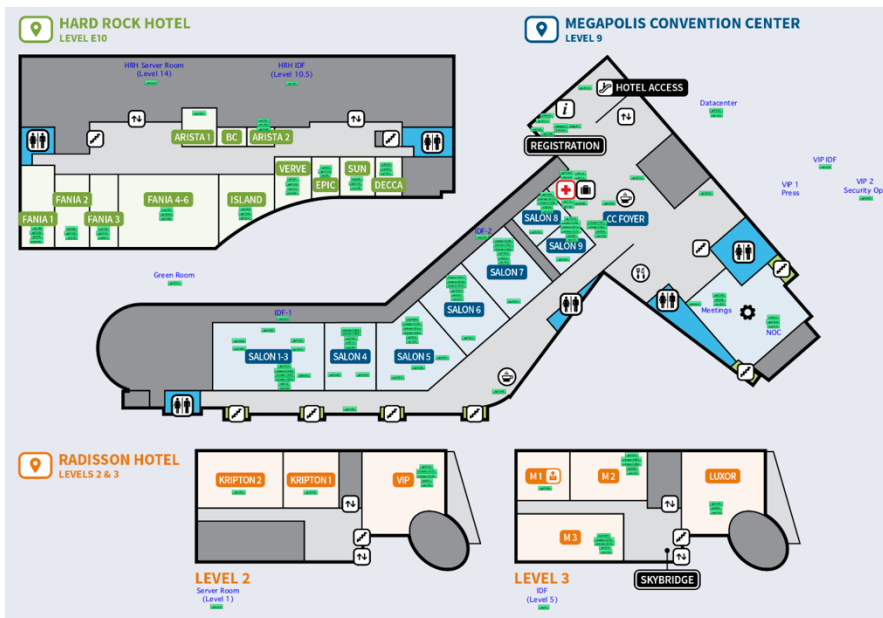
Session Monitoring

The Network Operations Center (NOC) monitors all session rooms, including audio streams, recordings, Wi-Fi associations, connectivity stability, room temperatures, and technician status. At any time, NOC staff can look at the monitoring screen and get a real-time status check of any session room.

Below is a screenshot taken during ICANN62 of monitoring software.



The NOC uses InterMapper to monitor all active equipment deployed into various areas of the venue. The tool enables the NOC to respond quickly to power outages, network problems, and equipment failures. The NOC is where the Meetings, Meetings Technical Services, and Security teams work together to ensure quick inter-departmental communications and coordination.



Network Operations Center

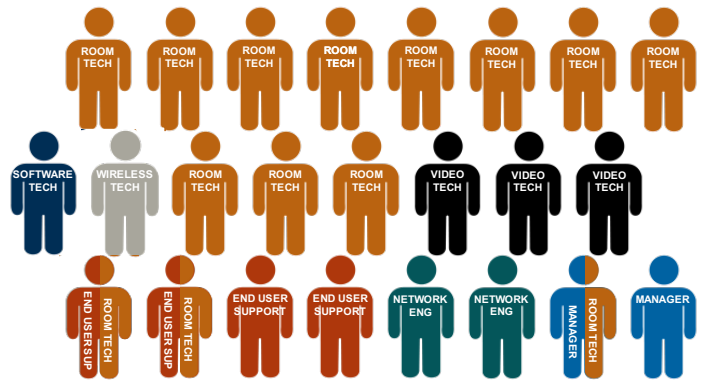
Meetings Technical Services Team

People are key to the success of ICANN meetings. Several teams of people help manage every aspect of a meeting. Our Meetings Technical Services (MTS) team includes: meeting managers, audio visual technicians, interpreters, scribes (closed captionists), remote participation managers, IT technicians, and video technicians. Many other teams outside the technical scope help make the meetings a success.

MTS Team
Messages Exchanged



Breakdown of MTS Team by Role



Meetings Technical Services Team | ICANN62



ICANN62 Meetings Technical Services Team

Network Operations Center – Panama City



Typical Session Room Setup

A typical meeting room is set up with a VoIP phone, several Wi-Fi access points, two to four Mac Minis, and one or two switches.

MTS installs international power strips in all session rooms. ICANN carries over 800 six-plug power strips with over 8 km of power cable. This provides over 4,800 power outlets for participants during meetings.



Alex controlling cameras in the GAC room

Shipment of Equipment

Over 99 cases ship around the world from meeting location to meeting location. This equipment returns back to Los Angeles, CA, USA, only once a year for restocking and repairs.



Network Operations Team hard at work

Video Setup

Three operator-controlled PTZ camera systems are available for large session rooms. This system streams video via Adobe Connect, and in some rooms, via Livestream HD video.

At ICANN56 in Helsinki, Finland, we introduced automated camera kits for all session rooms. These video kits operate in conjunction with the microphone system. All session rooms now have live video streams for open sessions.

Live video has been a major investment - ICANN is continually striving to improve the experience and interaction of remote participants. Livestream.com is now available for many sessions, providing live high definition video.

ICANN62 By the Numbers

Network Statistics and Client Profiles



Network Statistics

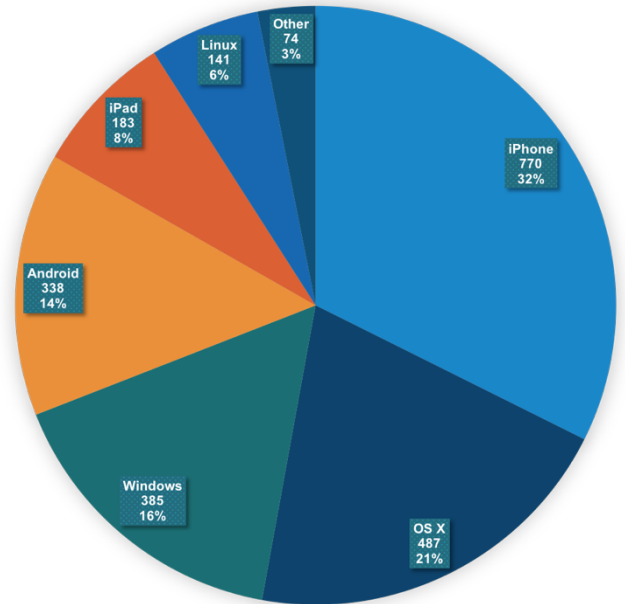
Overall Network Usage and Statistics

The ICANN Meetings Technical Services team operates only with Juniper routers and switches. For the wireless infrastructure, we use Aruba access points, including Aruba wireless controllers.

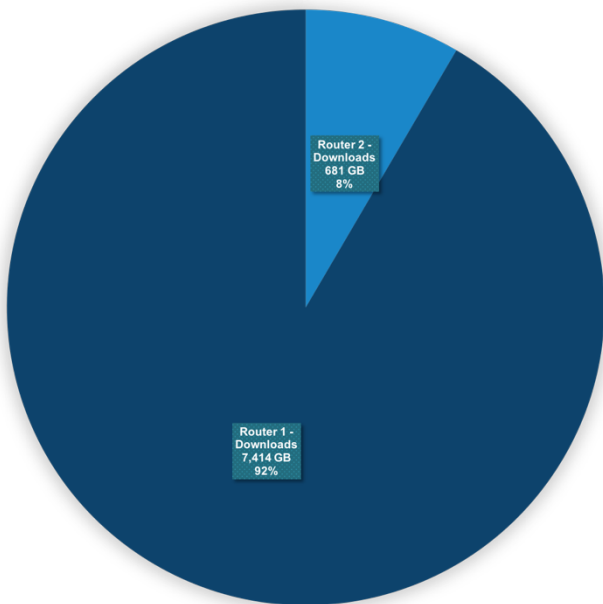
In the “General Information” section, we give the inventory of IT equipment that ICANN deployed for this meeting to meet the unique challenges of this venue.



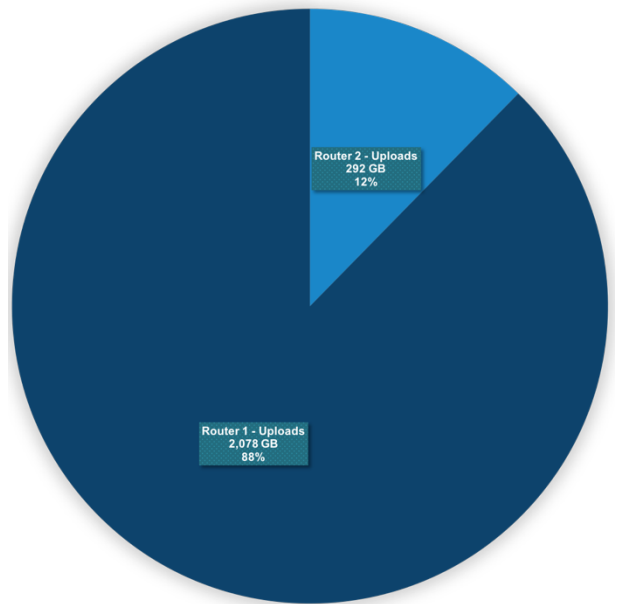
Clients by Device Type



Total Download Traffic



Total Upload Traffic

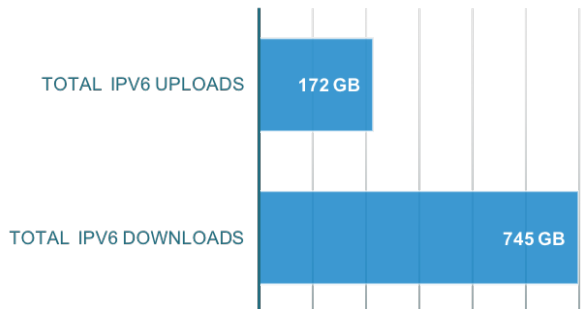


Network Statistics

Bandwidth Consumption and Allocation

These charts show the bandwidth that was provided and consumed, and the traffic allocation between IPv4 and IPv6.

IPv6 Data Transferred In/Out

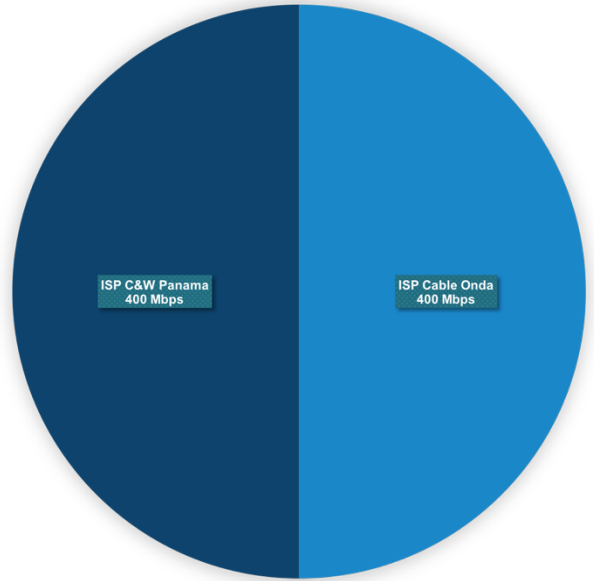


IPv6 Network Usage

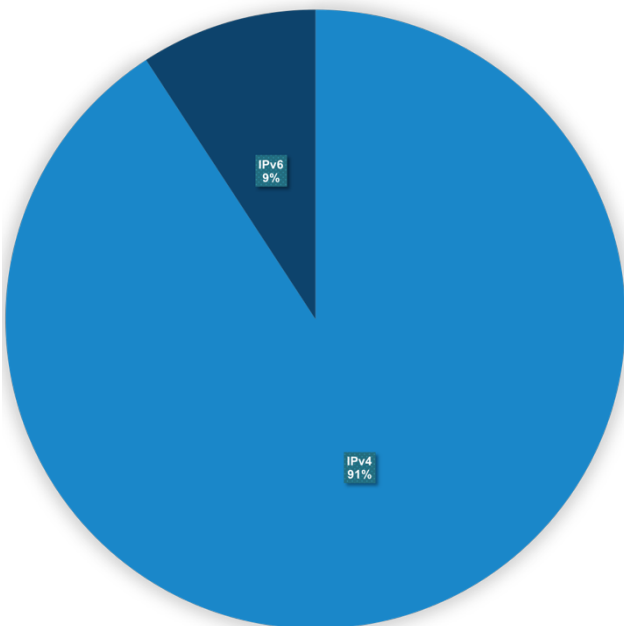
9%

-5% decrease since ICANN61 in San Juan

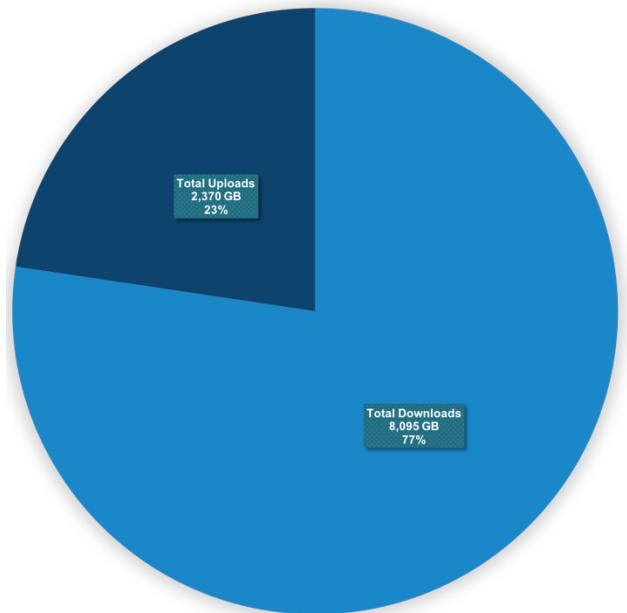
Internet Service Providers 800 Mbps Service Active /Active Mode



IPv4 & IPv6 Traffic Allocation



Total Data Consumption



Network Statistics

Wi-Fi Client Associations and Bandwidth

During an ICANN meeting, the Meetings Technical Services team closely monitors the network load and Wi-Fi associations to each wireless access point. Alerts notify the NOC team when a maximum number of users are associated to a single access point. The team responds promptly by mitigating issues with access points or deploying more access points.

Great care and time go into the deployment plan for wireless access points. The team works closely with our wireless vendor Aruba to ensure the best possible configuration of device profiles.

Our goal is to ensure the highest quality experience for all attendees on the ICANN network.

Peak Wi-Fi Associations
26-June-2018



1,436

Peak Client Associations



Peak Bandwidth Utilization

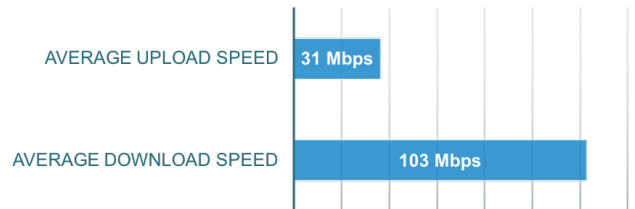
489

Peak Download Mbps
27-June-2018

232

Peak Upload Mbps
27-June-2018

Bandwidth Speed [During Business Hours per 30 Minutes]

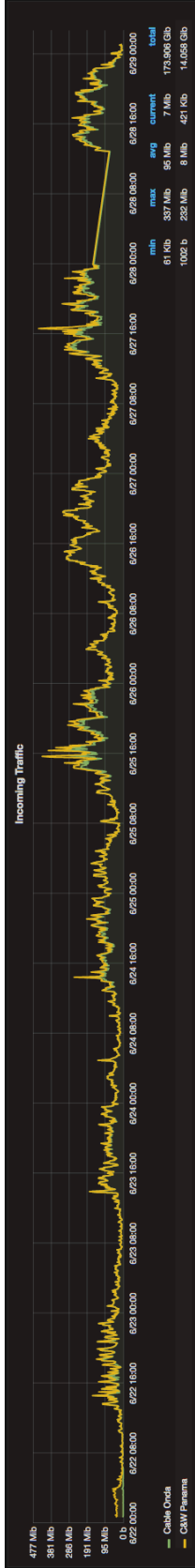


Network Statistics – Monitoring

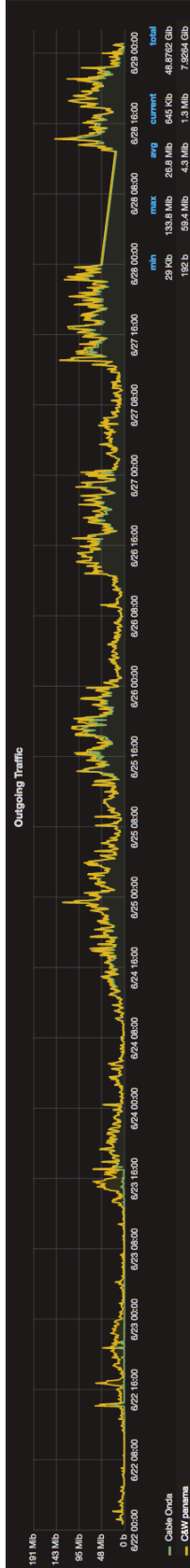
Bandwidth Utilization

ICANN runs our core network from two redundant routers. These graphs show the daily average bandwidth consumption. For ICANN62, ICANN was also able to provide bandwidth to the attached hotels for which the daily average bandwidth traffic is also modeled below.

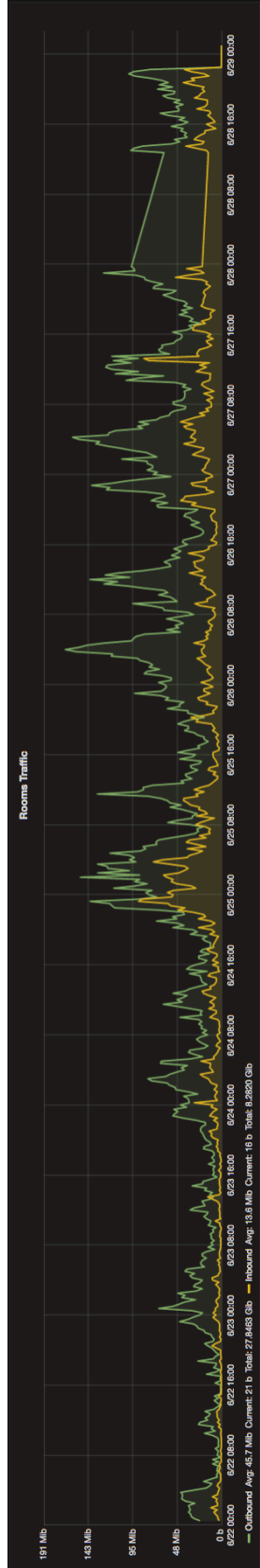
Download Bandwidth Utilization



Upload Bandwidth Utilization



ICANN-Rooms Bandwidth Utilization

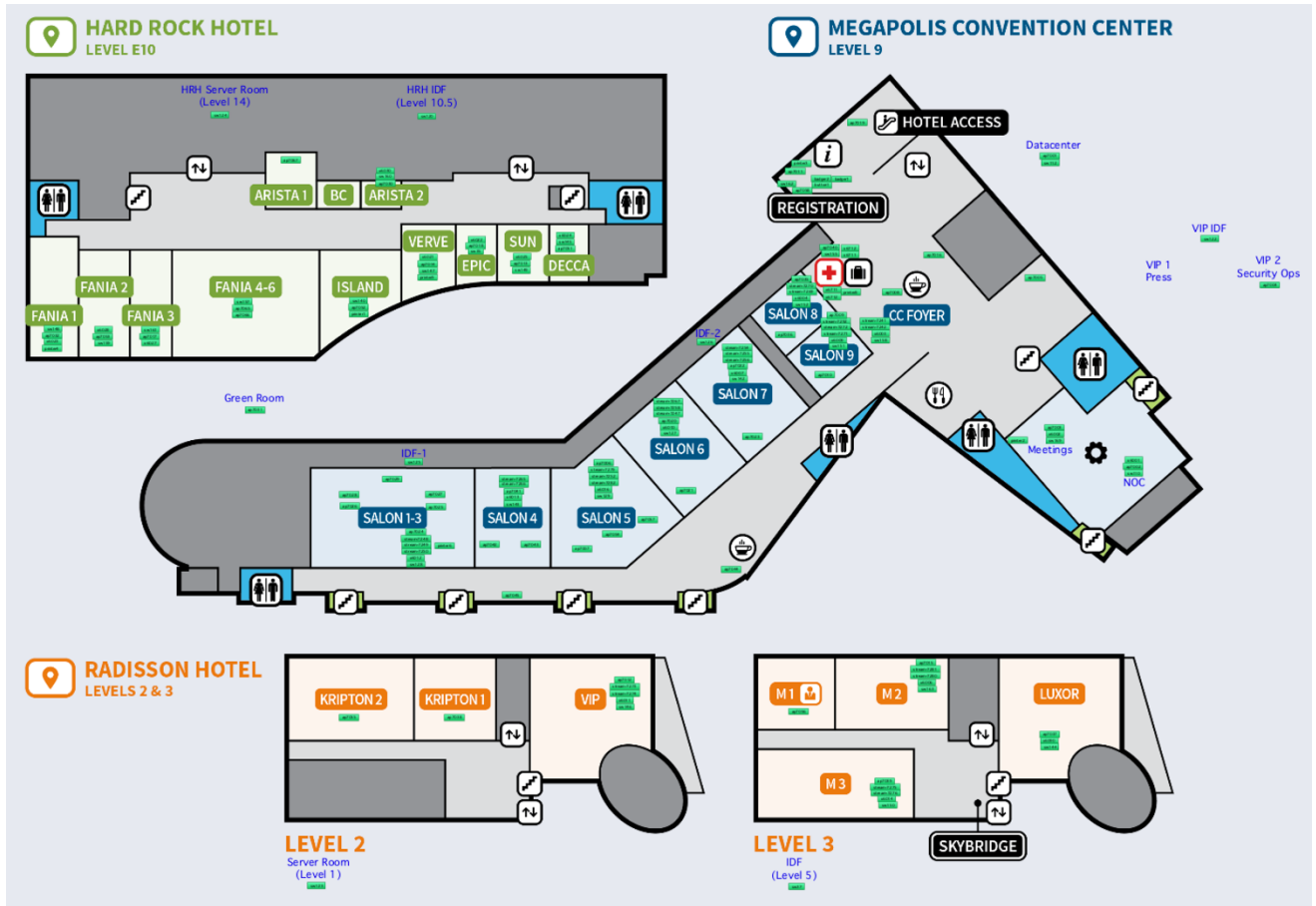


Network Statistics – Tools

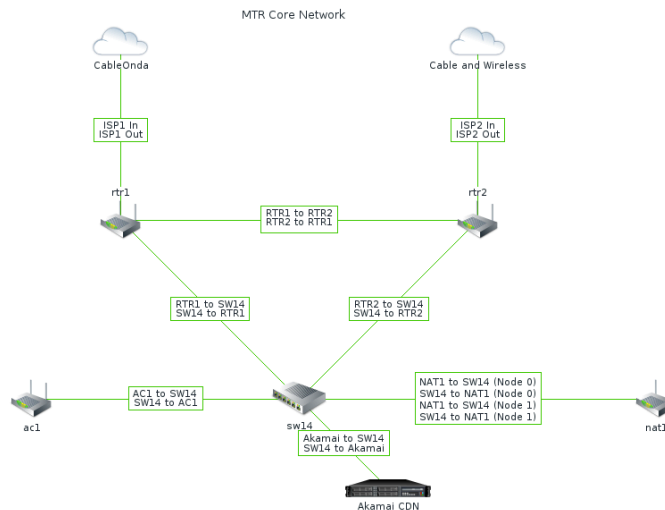
InterMapper Resource Monitoring Tool

InterMapper is ICANN’s tool to monitor all active equipment deployed into various areas of the venue. The tool enables the NOC to respond quickly to power outages, network problems, and equipment failures.

Megapolis Convention Center Device Deployment Map



Network Monitoring Screen Traffic Flow Monitoring



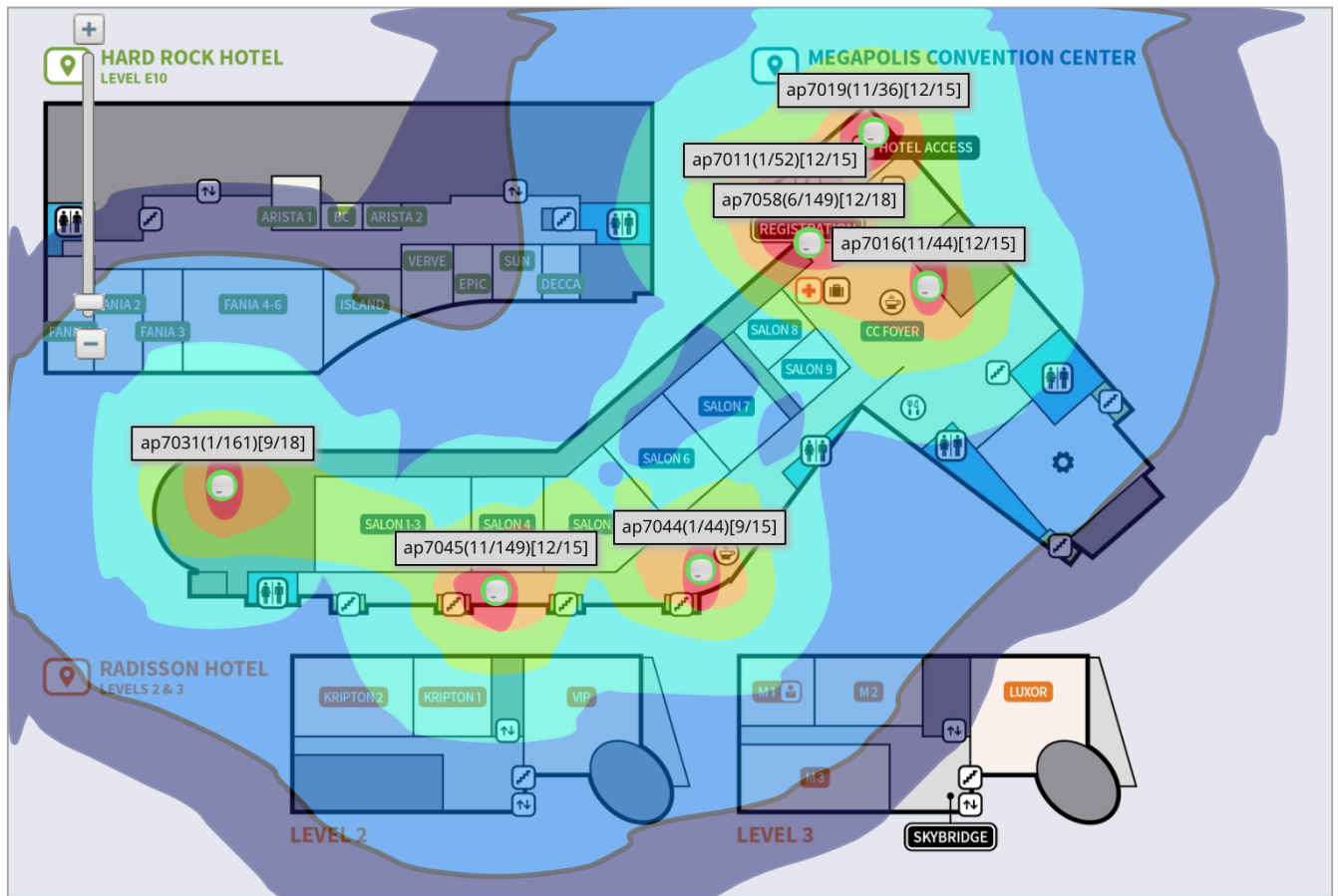
Network Statistics – Tools

Wireless Access Point Deployment – Heat Map

One of the primary services provided to the attendees at an ICANN meeting is free Wi-Fi. ICANN MTS takes this essential service seriously, and uses several tools and resources to ensure the highest quality experience for everyone.

Every meeting has a deployment plan depicting how many wireless access points are needed per room, and the strategic location of those access points. This is determined by several methods, one being a heat map shown below for the common areas of the Megapolis Convention Center. Heat maps show Wi-Fi signal strength, red being the hottest and closest to the Wi-Fi signal, gradually fading to orange, green, and blue as the signal strength diminishes.

Megapolis Convention Center



ICANN62 By the Numbers

Appendix



Attendee Profile Data

ICANN62 | Policy Forum - Panama City, Panama - 25-28 Jun 2018

Total Participants	1,113
--------------------	-------

First Time Participants (Newcomers)	250
-------------------------------------	-----

Returning Participants	863
------------------------	-----

By Gender

Female	256
--------	-----

Male	626
------	-----

Undisclosed	143
-------------	-----

By Badge Type

Participant	857
-------------	-----

Media	4
-------	---

Sponsor	8
---------	---

Support Staff	82
---------------	----

ICANN Organization	144
--------------------	-----

ICANN Board	18
-------------	----

By Stakeholder Group

Academia	74
----------	----

Civil Society / Non-Governmental Organization	121
---	-----

End User	97
----------	----

Government / Inter-Governmental Organization	193
--	-----

Private Sector - Domain Name Industry	172
---------------------------------------	-----

Private Sector - General Business / Legal	134
---	-----

Technical Community	191
---------------------	-----

By Interest Group

ALAC - At-Large Advisory Committee	73
------------------------------------	----

ASO - Address Supporting Organization	16
---------------------------------------	----

ccNSO - Country Code Names Supporting Organization	115
--	-----

DNSSEC - Domain Name System Security Extensions	38
---	----

Fellowship Program	58
--------------------	----

GAC - Governmental Advisory Committee	140
---------------------------------------	-----

GDD - Global Domains Division	22
-------------------------------	----

GNSO - Generic Names Supporting Organization	195
--	-----

I* Organization	15
-----------------	----

ICANN - Internet Corporation for Assigned Names and Numbers	139
---	-----

NextGen@ICANN	25
---------------	----

NomCom - Nominating Committee	15
-------------------------------	----

NRO - Number Resource Organization	9
------------------------------------	---

Other / Special Interest Group	65
--------------------------------	----

RSSAC - Root Server System Advisory Committee	19
---	----

SSAC - Security and Stability Advisory Committee	37
--	----

Attendee Profile Data

ICANN Five Regions	
Africa	71
Asia/Australia/Pacific Islands	113
Europe	248
Latin America and the Caribbean	303
North America	378

ICANN Meeting Seven Region	
Africa	71
Asia	80
Australia/Pacific Islands	33
Eastern Europe and Central Asia	6
Europe	223
Latin America and the Caribbean	303
Middle East	19
North America	378

ICANN62 Hotel Accommodations	
Hard Rock Hotel Panama Megapolis	750
Radisson Decapolis Hotel Panama City	121
No Hotel / Local Resident	97
Other Hotel / Not Listed	145

Attendee Profile Data – By ICANN Five Regions

	Africa	Asia / Australia / Pacific	Europe	Latin America / Caribbean	North America
Total Participants	71	113	248	303	378
First Time Participants (Newcomers)	4	18	31	171	26
Returning Participants	67	95	217	132	352
By Gender					
Female	17	24	43	72	100
Male	41	56	147	150	213
Undisclosed	8	31	31	38	35
By Badge Type					
Participant	67	99	211	241	239
Media	0	0	0	3	1
Sponsor	0	0	1	0	7
Support Staff	1	5	1	47	28
ICANN Organization	1	7	28	10	98
ICANN Board	2	2	7	2	5
By Stakeholder Group					
Academia	6	11	14	31	12
Civil Society / Non-Governmental Organization	11	14	21	59	16
End User	10	8	21	27	31
Government / Inter-Governmental Organization	36	36	47	54	20
Private Sector - Domain Name Industry	4	19	49	26	74
Private Sector - General Business / Legal	6	5	17	43	63
Technical Community	11	22	44	56	58
By Interest Group					
ALAC - At-Large Advisory Committee	10	13	12	21	17
ASO - Address Supporting Organization	1	5	1	4	5
ccNSO - Country Code Names Supporting Organization	15	19	40	26	14
DNSSEC - Domain Name System Security Extensions	5	6	7	10	10
Fellowship Program	7	7	10	32	2
GAC - Governmental Advisory Committee	29	35	44	20	12
GDD - Global Domains Division	0	2	3	4	13
GNSO - Generic Names Supporting Organization	11	20	56	25	83
I* Organization	0	1	3	6	5
ICANN - Internet Corporation for Assigned Names and Numbers	6	10	33	19	71
NextGen@ICANN	3	0	2	20	0
NomCom - Nominating Committee	2	1	3	2	7
NRO - Number Resource Organization	2	3	1	2	1
Other / Special Interest Group	2	1	10	42	10
RSSAC - Root Server System Advisory Committee	1	2	1	2	13
SSAC - Security and Stability Advisory Committee	1	4	4	5	23

Attendee Profile Data – By ICANN Seven Regions

	Africa	Asia	Australia / Pacific	Eastern Europe / Central Asia	Europe	Latin America / Caribbean	Middle East	North America
Total Participants	71	80	33	6	223	303	19	378
First Time Participants (Newcomers)	4	15	3	0	27	171	4	26
Returning Participants	67	65	30	6	196	132	15	352
By Gender								
Female	17	16	8	2	35	72	6	100
Male	41	53	3	1	134	150	12	213
Undisclosed	8	10	21	0	30	38	1	35
By Badge Type								
Participant	67	72	27	5	191	241	15	239
Media	0	0	0	0	0	3	0	1
Sponsor	0	0	0	0	1	0	0	7
Support Staff	1	2	3	0	1	47	0	28
ICANN Organization	1	5	2	1	24	10	3	98
ICANN Board	2	1	1	0	6	2	1	5
By Stakeholder Group								
Academia	6	9	2	2	9	31	3	12
Civil Society / Non-Governmental Organization	11	9	5	1	16	59	4	16
End User	10	1	7	1	16	27	4	31
Government / Inter-Governmental Organization	36	28	8	1	41	54	5	20
Private Sector - Domain Name Industry	4	17	2	0	48	26	1	74
Private Sector - General Business / Legal	6	4	1	0	16	43	1	63
Technical Community	11	15	7	0	41	56	3	58
By Interest Group								
ALAC - At-Large Advisory Committee	10	7	6	1	9	21	2	17
ASO - Address Supporting Organization	1	2	3	0	1	4	0	5
ccNSO - Country Code Names Supporting Organization	15	14	5	0	40	26	0	14
DNSSEC - Domain Name System Security Extensions	5	5	1	0	7	10	0	10
Fellowship Program	7	4	3	1	6	32	3	2
GAC - Governmental Advisory Committee	29	27	8	2	38	20	4	12
GDD - Global Domains Division	0	2	0	0	3	4	0	13
GNSO - Generic Names Supporting Organization	11	15	5	1	48	25	7	83
I* Organization	0	0	1	0	3	6	0	5
ICANN - Internet Corporation for Assigned Names and Numbers	6	9	1	1	28	19	4	71
NextGen@ICANN	3	0	0	0	1	20	1	0
NomCom - Nominating Committee	2	1	0	0	2	2	1	7
NRO - Number Resource Organization	2	1	2	0	1	2	0	1
Other / Special Interest Group	2	1	0	0	10	42	0	10
RSSAC - Root Server System Advisory Committee	1	1	1	0	1	2	0	13
SSAC - Security and Stability Advisory Committee	1	2	2	0	4	5	0	23

Session Statistics Data

Overall Meeting Statistics	
Total Session Counts	247
Total Session Hours	416.25
Actual Attendance for All Sessions	9,140
Checked-In Attendees	1,113
Counts by Session Type	
Sign Up Rooms	43
Closed - Member Only Sessions	36
Open Sessions	131
Remote Participation - Adobe Connect *	
Total Unique Participants	2,421
Tablet Connections	14,851
Mobile Phone Connections	26,698
Mobile Users	406
Mobile Minutes	6,937
* Only accounts for Open Sessions	
Overall Resource Usage	
Adigo Phone Conference Bridge Calls	4
Adigo Phone Conference Total Hours	5.75
PGI/GlobalMeet Conference Bridge Calls	8
PGI/GlobalMeet Conference Total Hours	62.75
Verizon Conference Bridge Calls	38
Verizon Conference Total Hours	63.75
Remote Participation Manager Requests	131
Remote Participation Manager Total Hours	164
Telephone Calls Conducted	50
Telephone Calls Conducted Hours	132.25
Mobile App & Website Usage	
Total Unique Visitors (60 Days)	3,940
Total Pageviews (60 Days)	90,412

Schedule Website and Mobile App Statistics

Geography	Sessions
Panama	7,905
United States	2,962
United Kingdom	343
China	249
Japan	201
Canada	191
France	171
Brazil	166
India	156

Device Category	Sessions
Desktop	8,855
Mobile	5,822
Tablet	550

Browser	Sessions
Chrome	6,627
Safari (in-app)	3,085
Android Webview	1,733
Safari	1,508
Firefox	1,383
Internet Explorer	435

Demographics - Age	%
18-24	5.56%
25-34	30.40%
35-44	29.95%
45-54	20.38%
55-64	9.18%
65+	4.53%

*Data based on 39.16% of total users

User Type	Sessions
New Visitor	3,139
Returning Visitor	12,088

General Stats	
Sessions	15,227
Users	3,948
Pageviews	78,855
Pages / Session	5.18
Avg. Session Duration	00:05:41
Bounce Rate	23.42%
New Users	3,132

Language	Sessions
English - United States	9,383
English - United Kingdom	1,169
Spanish	556
French	353
Chinese	450
Portuguese	404

Website Quick Stats	
Attendees Logged In	543
Schedules Created or Downloaded	795
Average Session Duration	7.6 Minutes
Total Members	817

Demographics - Gender	Users
Male	913
Female	625

*Data based on 38.96% of total users

Acquisition Overview	Sessions
Direct	13,096
Organic Search	1,087
Referral	581
Other	238
Social	224
Email	1

Remote Participation Data – Adobe Connect

Adobe Connect Remote Participation Stats

Adobe Connect Total Unique Participants	2,421
Desktop Users	2,015
Mobile App Users	406

Room	Unique Users	Mobile Users	Desktop Users
CC Foyer	24	2	22
Luxor	1	0	1
Metropolis 2	65	9	56
Salon 1	1,088	0	1,088
Salon 4	145	28	117
Salon 5	100	37	63
Salon 6	170	80	90
Salon 7	429	147	282
Salon 8	208	37	171
Salon 9	178	66	112
VIP	13	0	13

Room	Total Connections	Mobile Users	Total Mobile Minutes
CC Foyer	34	2	4
Luxor	2	0	0
Metropolis 2	112	9	103
Salon 1	2,302	N/A	N/A
Salon 4	257	28	461
Salon 5	208	37	276
Salon 6	448	80	1,335
Salon 7	1,100	147	2,417
Salon 8	346	37	930
Salon 9	300	66	1,411
VIP	18	0	0

Remote Participation Data

Web Streaming Hours [hh:mm:ss]	
English	158:49:00
French	53:07:00
Spanish	62:41:00
Chinese	37:31:00
Russian	33:48:00
Arabic	35:09:00
Portuguese	37:36:00
Total	418:41:00

Web Streaming Listeners	
English	104
French	11
Spanish	17
Chinese	11
Russian	0
Arabic	0
Portuguese	2
Total	145

Recorded Hours [hh:mm:ss]	
English	190:27:00
French	53:04:00
Spanish	62:47:00
Chinese	37:26:00
Russian	33:44:00
Arabic	35:05:00
Portuguese	37:40:00
Total	450:13:00

Network Statistics Data

Bandwidth	Mbps
ISP Cable Onda	400
ISP C&W Panama	400
Total Bandwidth Available	800

Total Data Transferred In/Out	GB
Router 1 - Downloads	7,414
Router 1 - Uploads	2,078
Router 2 - Downloads	681
Router 2 - Uploads	292
Total Downloads	8,095
Total Uploads	2,370

IPv6 Data Transferred In/Out	GB
Router 2 IPv6 Uploads	152
Router 2 IPv6 Downloads	473
Router 1 - IPv6 Uploads	20
Router 1 - IPv6 Downloads	272
Total IPv6 Downloads	745
Total IPv6 Uploads	172

Clients by Device Type	Users
iPhone	770
OS X	487
Windows	385
Android	338
iPad	183
Linux	141
Other	74

Total Traffic Allocation	%
IPv4	91%
IPv6	9%

Total Traffic	GB
IPv4 Downloads	7,350
IPv4 Uploads	2,198
IPv6 Downloads	745
IPv6 Uploads	172

Average Traffic Speed	Mbps
Average Download Speed	103
Average Upload Speed	31.1

Peak Bandwidth Utilization	Mbps
Peak Download Date	27-Jun-18
Peak Download Utilization	489
Peak Upload Date	27-Jun-18
Peak Upload Utilization	232

Peak Wi-Fi Clients	
Peak Date	26-Jun-18
Peak Devices	1,436

Clients by Device Type	%
iPhone	32%
OS X	20%
Windows	16%
Android	14%
iPad	8%
Linux	6%
Other	3%

Network Statistics Data – Top 50 Sessions by Wireless Clients

Session Title	Wireless Clients
1 Cross-Community Session: WHOIS/RDS Policy: Post-GDPR Development and Next Steps	663
2 Cross-Community Session: Accreditation and Access to Non-Public WHOIS Data Post-GDPR	587
3 High Interest Session: Community Input to GNSO Expedited PDP Charter Development	543
4 GAC: GDPR Overview	480
5 Joint Meeting: GAC and GNSO	468
6 Joint Meeting: ICANN Board and GAC	467
7 Cross-Community Session: Geographic Names at the Top-Level (1 of 2)	438
8 Joint Meeting: GAC and ALAC	438
9 GAC: Board and GAC Recommendation and Implementation Meeting	414
10 GAC: High Level Governmental Meeting Preparation	391
11 GAC: Preliminary Report on the Capacity Building Workshops	386
12 GAC: Discussion on GDPR	378
13 GAC: Preparation for meeting with the ICANN Board	368
14 GAC: New gTLD Subsequent Procedures WT1-5 (incl. GAC Geographic Names WG) Discussion	349
15 Joint Meeting: GAC and ccNSO (1 of 2)	342
16 GAC: Discussion on GDPR	340
17 GAC: Opening Plenary and Overview of Weekly GAC Sessions	314
18 Cross-Community Session: Geographic Names at the Top-Level (2 of 2)	291
19 GAC Meeting with GNSO Contracted Parties on GDPR	261
20 GNSO Working Session	253
21 GAC: Communique Review	252
22 High Interest Session: RDS-WHOIS2 Review	251
23 GNSO: Subsequent Procedures PDP Working Group Face-to-Face Session 1	245
24 GAC: CCWG Auction Proceeds Update	243
25 GAC: CCWG on Accountability Work Stream 2 Update	241
26 GAC: Discussion on Advice Register	239
27 GAC: Independent Secretariat and Other GAC Operational Matters	239
28 GNSO - RrSG - GDPR: Tucows' Lessons from 1 Month into Tiered Access	225
29 GAC: Communique Drafting	225
30 GAC: Communique Drafting	214
31 GAC: Daily overview of sessions	206
32 GNSO EPDP on Temporary Specification for gTLD Registration Data - Initiation Request and Charter DT meeting	202
33 GAC Onboarding and Travel Support Discussion	199
34 GAC: Human Rights and International Law Working Group	198
35 GNSO: Council Meeting	195
36 GAC: Website Update	187
37 Joint Meeting: GAC and ccNSO (2 of 2)	171
38 Joint Meeting: ccNSO & GNSO Councils	167
39 ccNSO: Members Meeting Day 1 (2 of 3)	165
40 GNSO: Subsequent Procedures PDP Working Group Face-to-Face Session 2	158
41 GAC: NomCom Working Group	158
42 Tech Day (1 of 3)	157
43 GNSO: CPH/NCSG - General Data Protection Regulation session	154
44 GNSO: CSG - Open Meeting	150
45 ccNSO: Members Meeting Day 1 (1 of 3)	148
46 Work Stream 2 Discussion	146
47 Tech Day (2 of 3)	143
48 DNSSEC Workshop (2 of 2)	141
49 GNSO: Review of all Rights Protection Mechanisms in all gTLDs (1 of 3)	140
50 GNSO: Subsequent Procedures PDP Working Group Face-to-Face Session 3	140

Network Statistics Data

Wireless Access Points	Unique Clients	Max Clients	Total Data
ap7044	1,786	149	119.20 GB
ap7008	1,659	101	163.72 GB
ap7016	1,658	224	76.16 GB
ap7040	1,623	132	143.19 GB
ap7045	1,523	59	41.93 GB
ap7019	1,474	76	54.23 GB
ap7058	1,417	44	28.25 GB
ap7026	1,410	162	200.76 GB
ap7022	1,402	148	346.02 GB
ap7024	1,396	159	266.58 GB
ap7025	1,376	145	239.27 GB
ap7011	1,362	42	45.39 GB
ap7009	1,352	58	127.77 GB
ap7010	1,322	81	133.10 GB
ap7023	1,317	125	215.94 GB
ap7003	1,266	73	560.86 GB
ap7027	1,180	127	273.15 GB
ap7020	1,159	84	212.28 GB
ap7029	1,127	115	237.98 GB
ap7035	1,126	73	177.61 GB
ap7005	1,118	55	53.89 GB
ap7001	1,088	24	20.82 GB
ap7028	1,007	148	256.35 GB
ap7036	986	67	204.21 GB
ap7021	957	80	213.72 GB
ap7006	927	71	243.30 GB
ap7007	862	103	225.67 GB
ap7039	814	57	151.52 GB
ap7043	752	96	127.63 GB
ap7012	745	47	110.52 GB
ap7065	740	77	111.08 GB
ap7002	732	67	659.29 GB
ap7042	695	84	122.83 GB
ap7041	683	65	173.73 GB
ap7004	678	35	152.79 GB
ap7052	653	107	104.23 GB
ap7054	528	58	58.42 GB
ap7066	508	53	69.58 GB
ap7067	508	28	30.26 GB
ap7014	491	19	27.56 GB

ap#### = Aruba wireless access point model AP325

oap#### = Aruba outdoor wireless access point model AP270

Network Statistics Data

ap7014	491	19	27.56 GB
ap7057	471	38	55.71 GB
ap7015	447	28	96.17 GB
ap7013	439	41	23.04 GB
ap7031	426	8	17.75 GB
ap7018	386	17	25.17 GB
ap7017	357	13	14.77 GB
ap7030	352	14	28.79 GB
ap7037	298	39	57.07 GB
ap7053	284	37	21.86 GB
ap7038	214	10	66.29 GB
ap7051	212	17	13.39 GB
ap7056	211	8	35.38 GB
ap7032	140	32	104.10 GB
ap7055	101	9	62.22 GB

ap#### = Aruba wireless access point model AP325

oap#### = Aruba outdoor wireless access point model AP270

ICANN62 By the Numbers

For additional information or to make comments on this report, please contact: meetings@icann.org

