



ICANN

63

BARCELONA

20-26 October 2018

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ANNUAL GENERAL

By the Numbers

ICANN | PUBLIC MEETINGS

## What is an ICANN Public Meeting?

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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?

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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 ICANN63, 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](mailto:meetings@icann.org).

## Where can I find more information about ICANN Public Meetings?

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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](mailto:meeting-sponsorship@icann.org).

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# ICANN63 | By the Numbers

## Attendee Profile



# Attendee Profile

## Attendee Profile for Barcelona, Spain

ICANN63 had 2,639 attendees, with 1,440 coming from the European region.

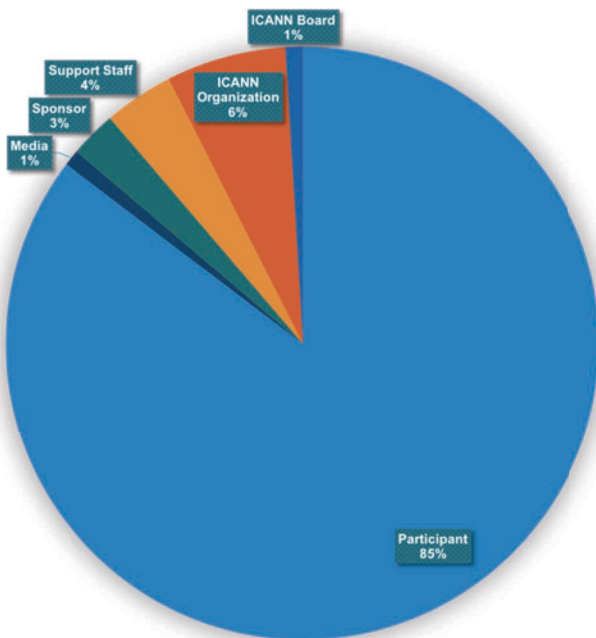
1,085 participants were attending an ICANN Public Meeting for the first time.

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.

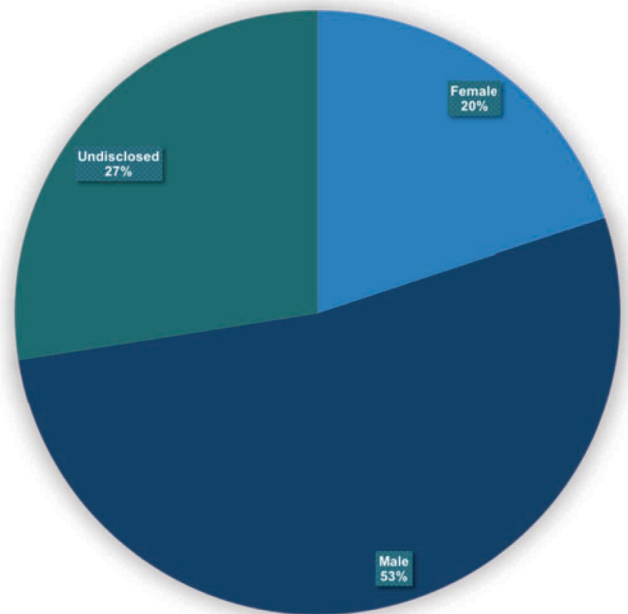
For this section, the attendee profile metrics are derived from data that users provided during the meeting registration process. Attendees were not required to answer all questions.



ICANN63 Attendee Profile by Badge Type



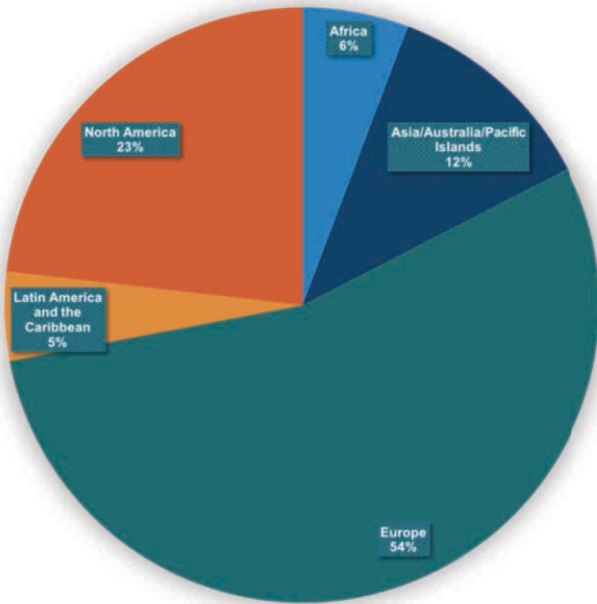
ICANN63 Attendee Profile by Gender



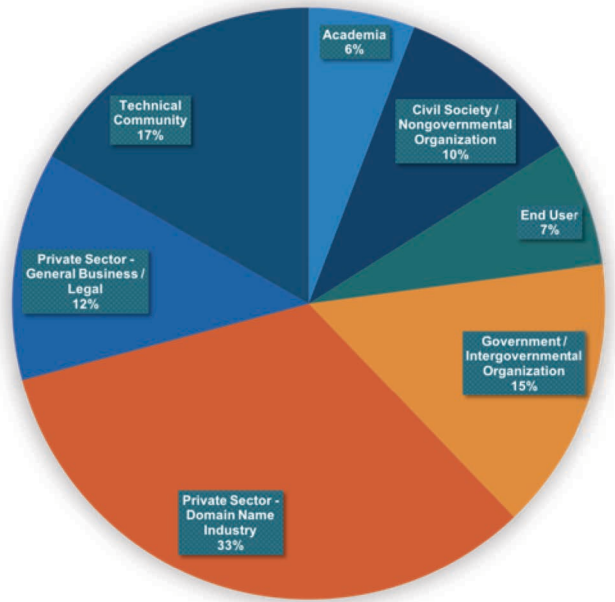


# Attendee Profile

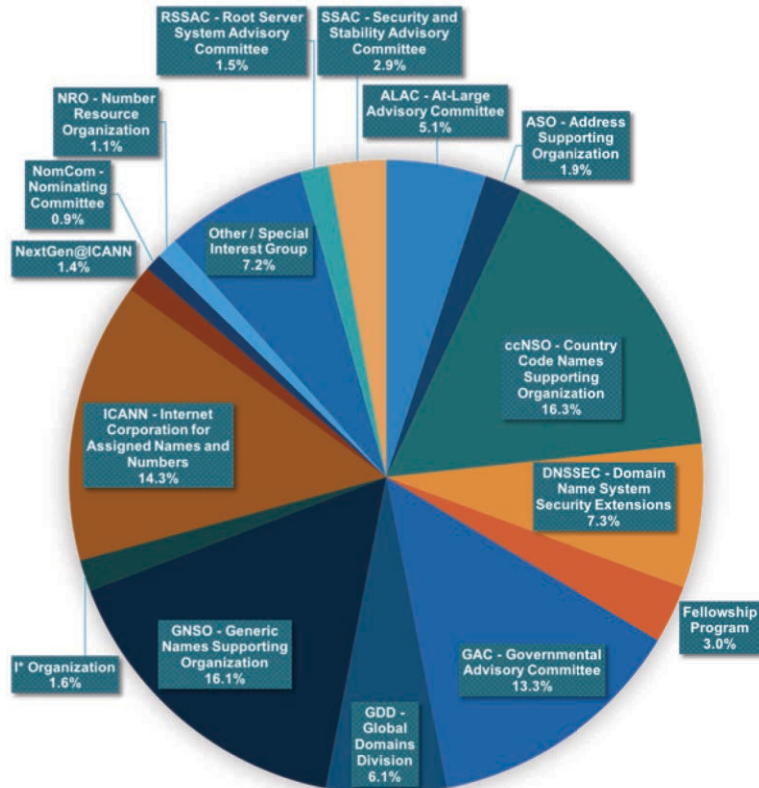
ICANN63 Attendee Profile by ICANN Regions



ICANN63 Attendee Profile by Stakeholder Classification



ICANN63 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 ICANN63 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.

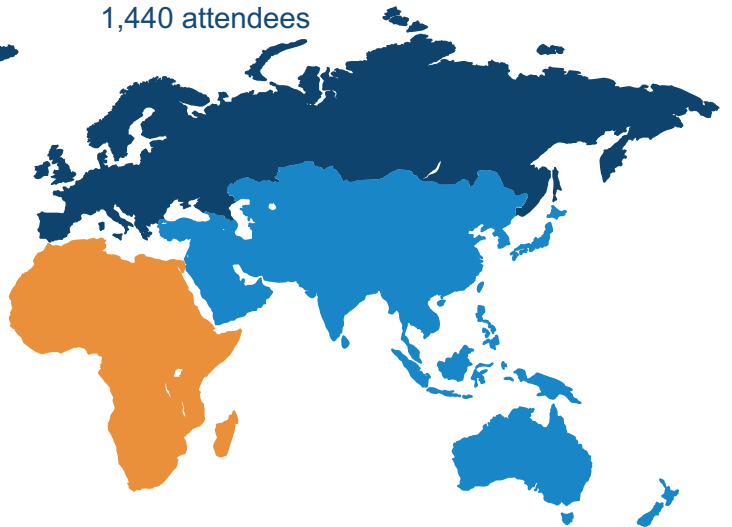
### North America

612 attendees



### Europe

1,440 attendees



### Latin America/ Caribbean

127 attendees



### Africa

152 attendees



### Asia/Australia/Pacific

308 attendees



# Africa: Regional Attendee Profile

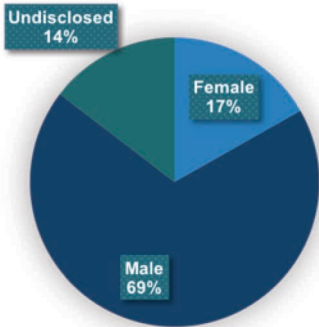
## Attendee Profile for Africa



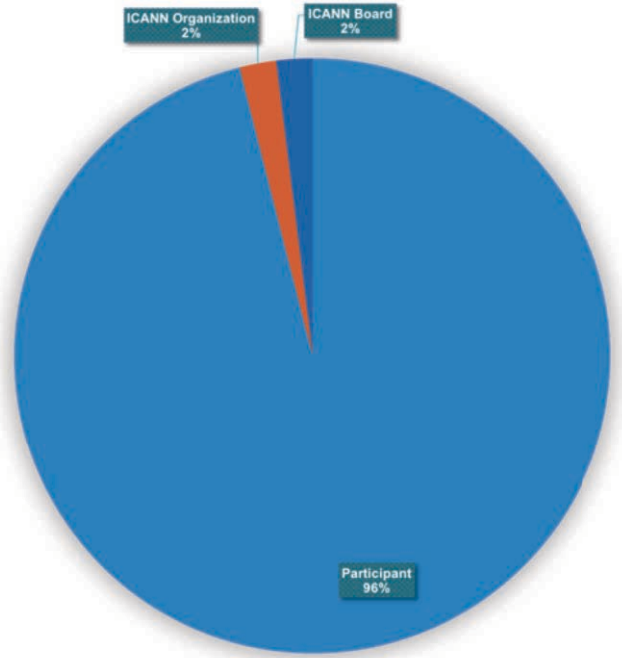
The attendee profile metrics for ICANN63 are derived from data that users provided during the meeting registration process.

**152 Regional Participants**  
**37 Newcomers**

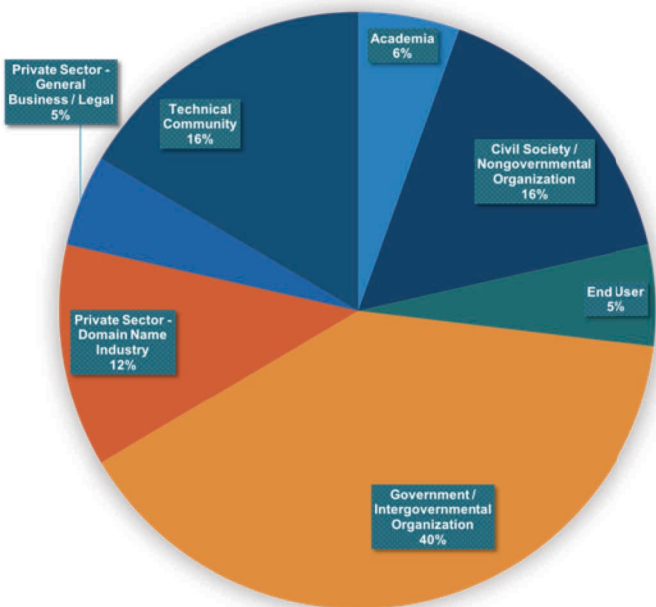
### ICANN63 African Region Attendee Profile by Gender



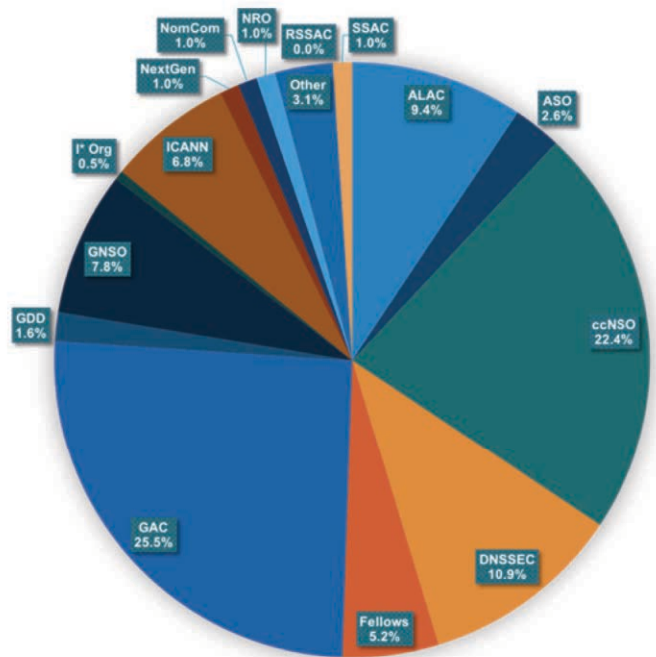
### ICANN63 African Region Attendee Profile by Badge Type



### ICANN63 African Region Attendee Profile by Stakeholder Classification



### ICANN63 African Region Attendee Profile by Groups of Interest





# Asia/Australia/Pacific: Regional Attendee Profile

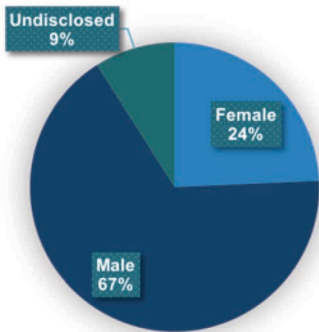


## Attendee Profile for Asia, Australia, and the Pacific

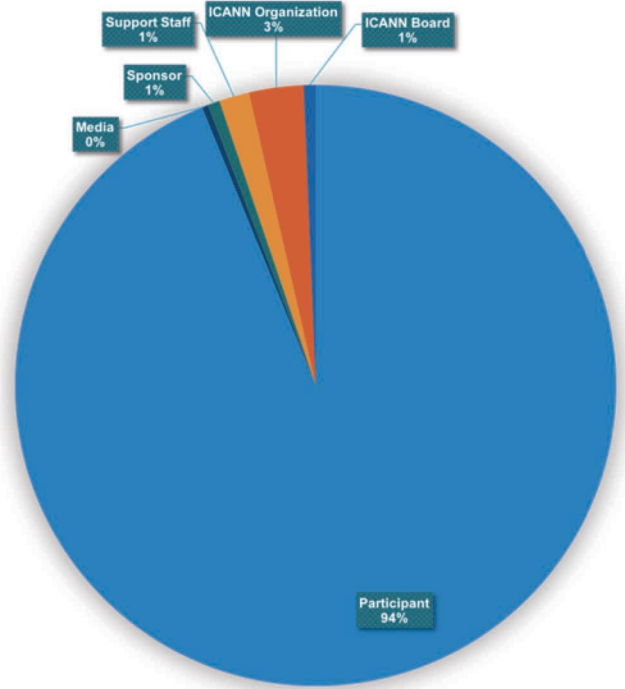
The attendee profile metrics for ICANN63 are derived from data that users provided during the meeting registration process.

**308 Regional Participants**  
**106 Newcomers**

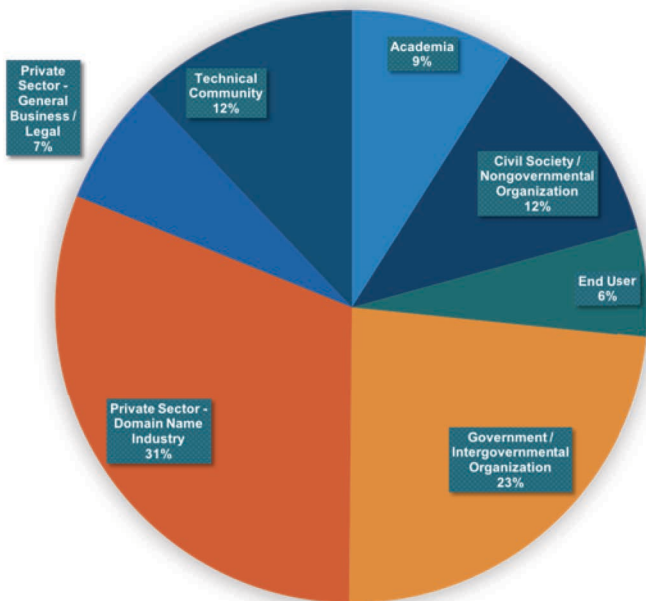
### ICANN63 Asian/Australian/Pacific Region Attendee Profile by Gender



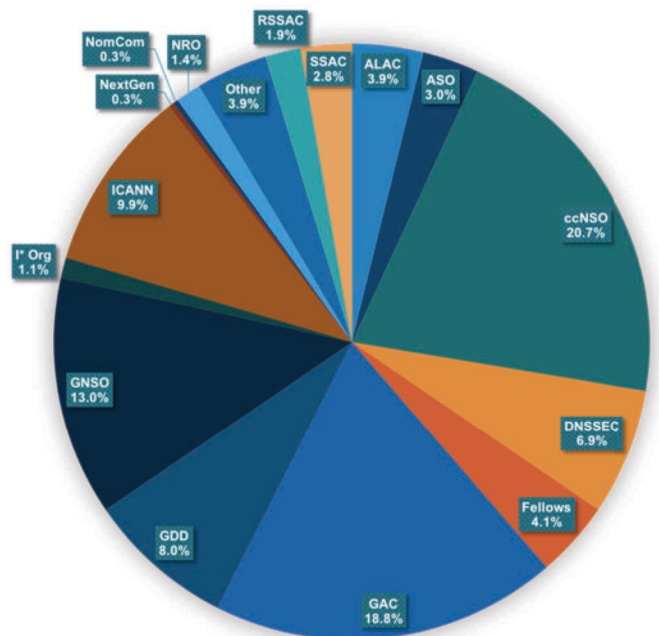
### ICANN63 Asian/Australian/Pacific Region Attendee Profile by Badge Type



### ICANN63 Asian/Australian/Pacific Region Attendee Profile by Stakeholder Classification



### ICANN63 Asian/Australian/Pacific Region Attendee Profile by Groups of Interest



# Europe: Regional Attendee Profile

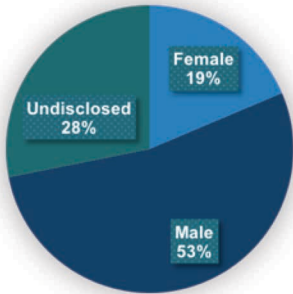


## Attendee Profile for Europe

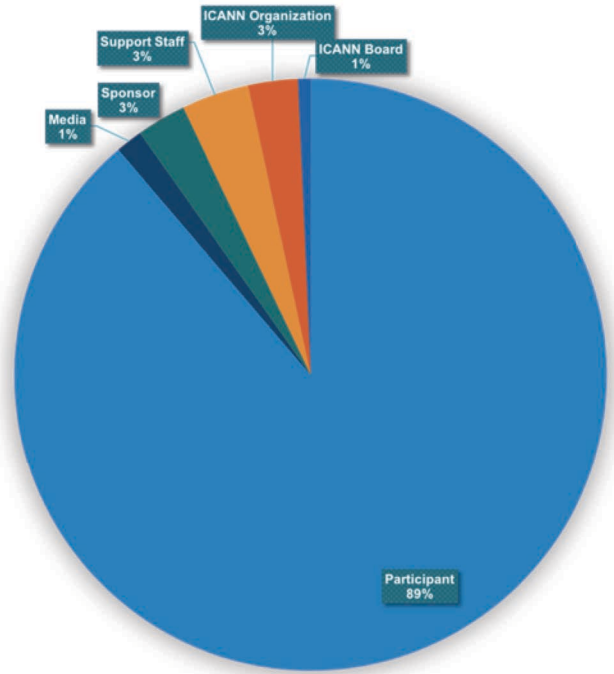
The attendee profile metrics for ICANN63 are derived from data that users provided during the meeting registration process.

**1,440 Regional Participants**  
**808 Newcomers**

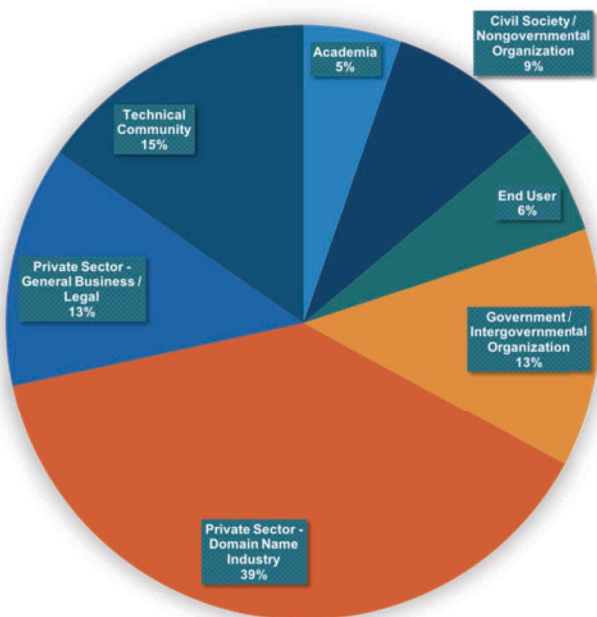
## ICANN63 European Region Attendee Profile by Gender



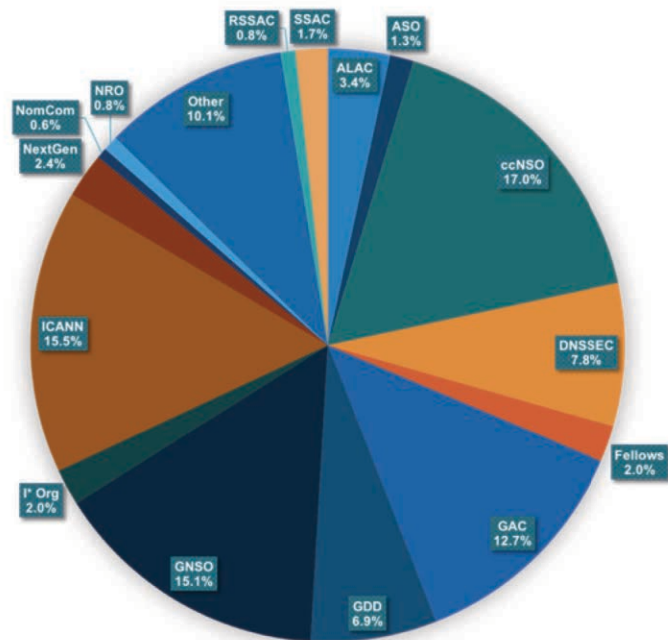
## ICANN63 European Region Attendee Profile by Badge Type



## ICANN63 European Region Attendee Profile by Stakeholder Classification



## ICANN63 European Region Attendee Profile by Groups of Interest



# Latin America/Caribbean: Regional Attendee Profile

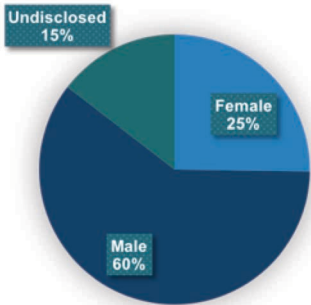
## Attendee Profile for Latin America and the Caribbean Islands



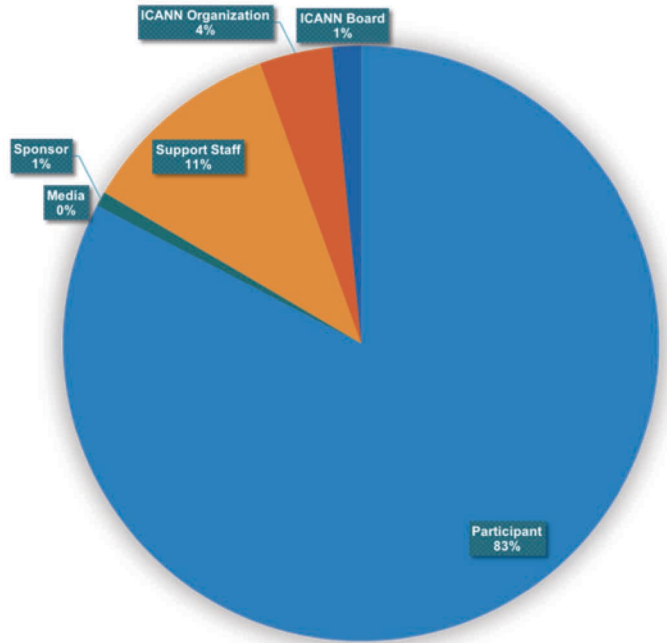
The attendee profile metrics for ICANN63 are derived from data that users provided during the meeting registration process.

**127 Regional Participants**  
**21 Newcomers**

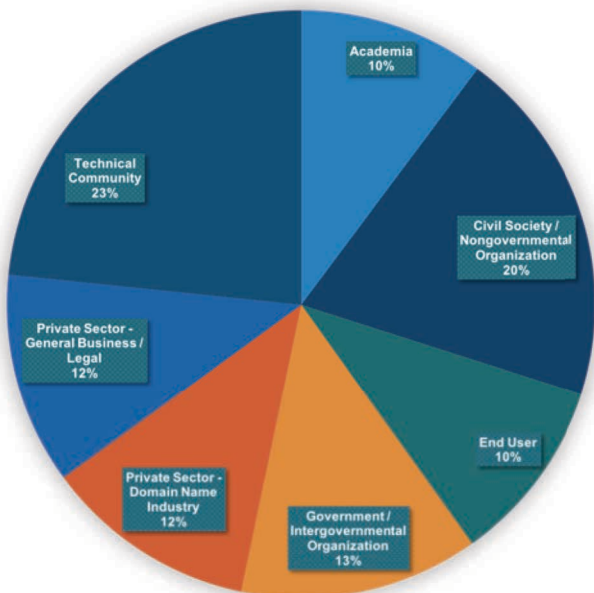
### ICANN63 Latin American/Caribbean Region Attendee Profile by Gender



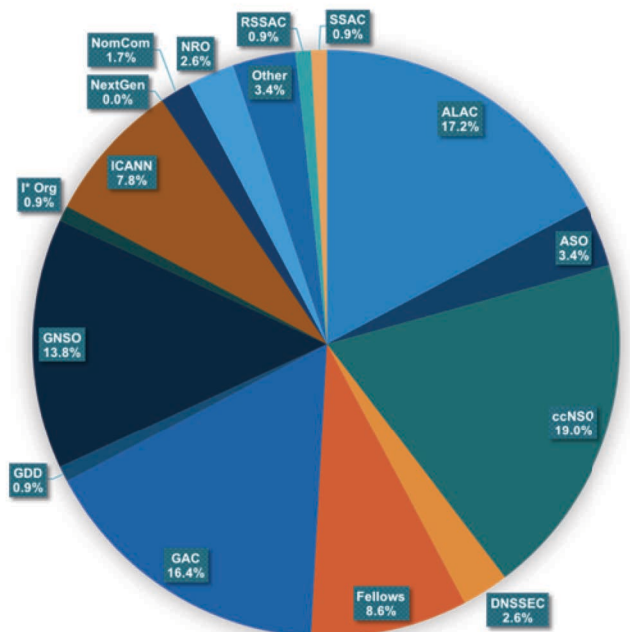
### ICANN63 Latin American/Caribbean Region Attendee Profile by Badge Type



### ICANN63 Latin American/Caribbean Region Attendee Profile by Stakeholder Classification



### ICANN63 Latin American/Caribbean Region Attendee Profile by Groups of Interest



# North America: Regional Attendee Profile

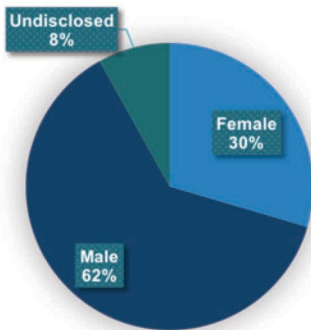
## Attendee Profile for North America

The attendee profile metrics for ICANN63 are derived from data that users provided during the meeting registration process.

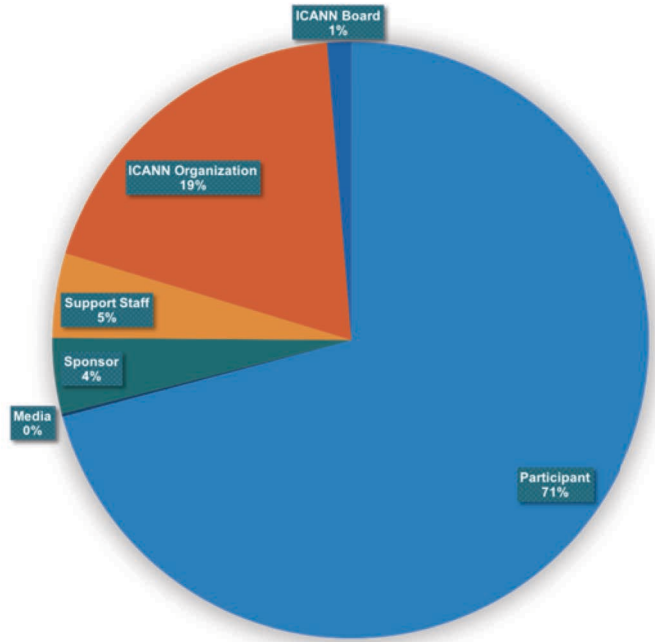


**612 Regional Participants**  
**113 Newcomers**

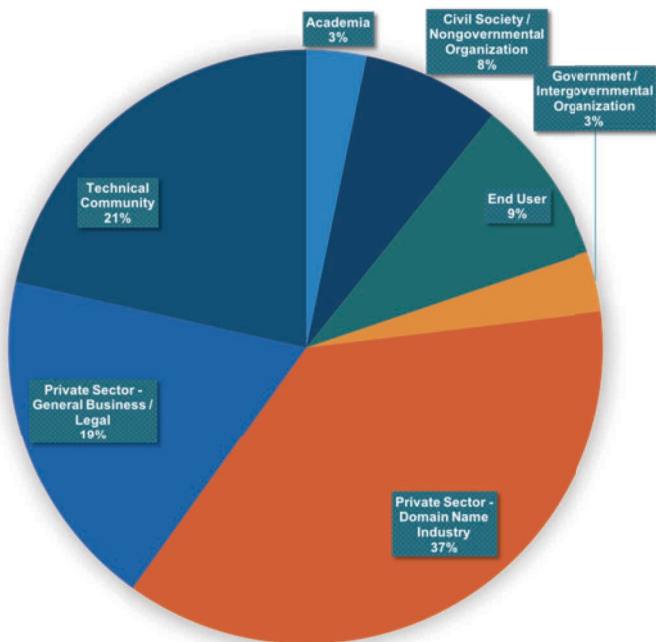
## ICANN63 North American Region Attendee Profile by Gender



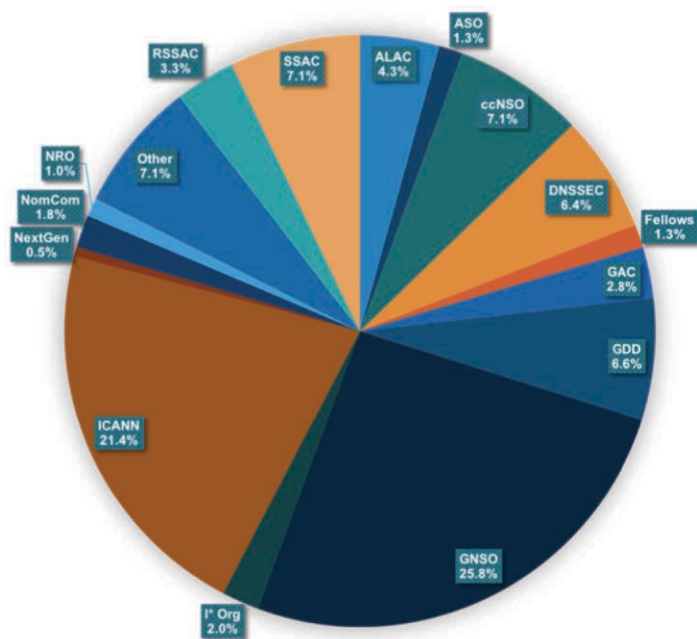
## ICANN63 North American Region Attendee Profile by Badge Type



## ICANN63 North American Region Attendee Profile by Stakeholder Classification



## ICANN63 North American Region Attendee Profile by Groups of Interest



# ICANN63 | By the Numbers

## Session Statistics





# Session Statistics

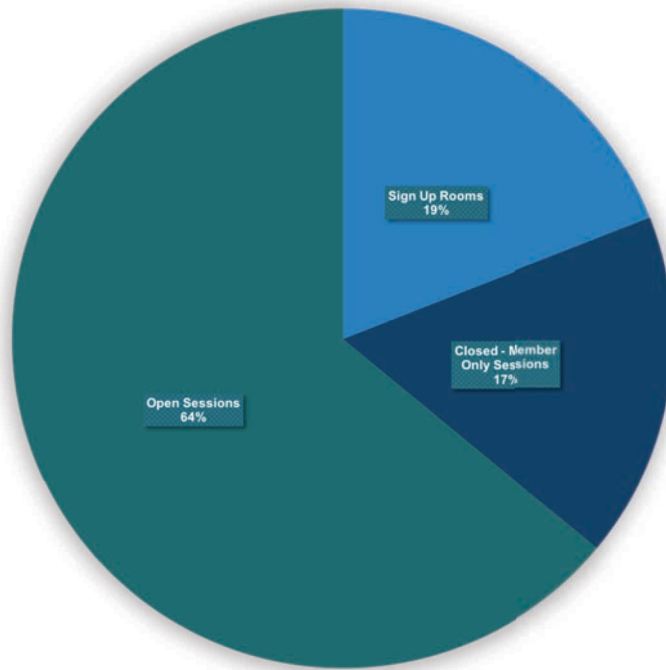
## Session Statistics for Barcelona, Spain

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

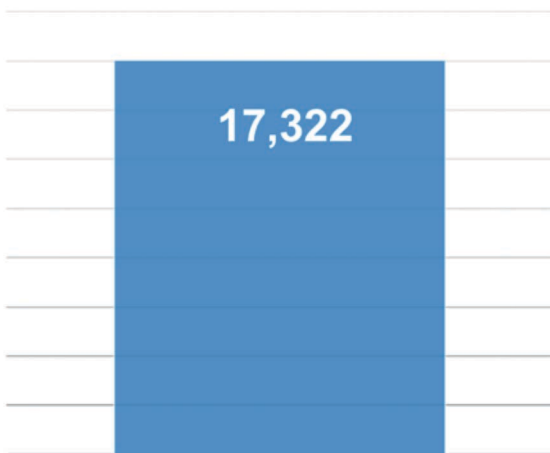
- Open sessions are open to everyone, and are supported with remote participation tools for additional outside participation.
- Closed sessions are typically open only to members of a specific group, and may have limited remote participation.
- Sign Up Rooms are on-site impromptu meetings, held in session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

This chart breaks down meetings conducted by session type.

Counts by Session Type

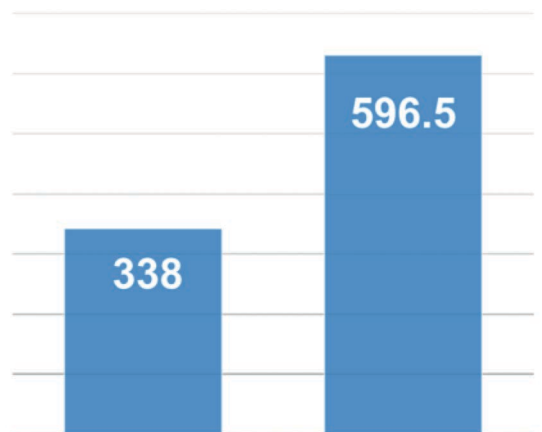


Actual Attendance for All Sessions



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 ICANN63 Welcome Ceremony	947
2 Public Forum 1	683
3 Joint Meeting: ICANN Board and GAC	336
4 HLG: The Role of Opportunities For Governments in ICANN – Post IANA Transition	335
5 HLG: Welcome and Introductory Remarks	330
6 Public Forum 2	327
7 HLG: Thematic Challenges in the IG Ecosystem – Cybercrime, Data Protection and Privacy	308
8 GAC: WHOIS & GDPR: Discussion with IPC and NCSG	282
9 High-Interest Topic: EPDP on the Temporary Specification for gTLD Registration Data	280
10 Cross-Community Session: GDPR	271
11 HLG: Global Digital Agenda and Internet Policies	270
12 GAC: Overview of WHOIS Compliance with GDPR incl. Report of EPDP Progress	269
13 HLG: The Internet Technological Evolution and the Role and Impact of ICANN	255
14 ICANN Community Recognition Program	238
15 Joint Meeting: ICANN Board and CPH	224
16 ICANN@20 Years	217
17 HLG: Closing Session	203
18 Joint Meeting: GAC and the ccNSO	198
19 GAC: Daily Overview of GAC Sessions	193
20 GAC: GDPR Discussion	178
21 High Interest Topic: Innovation in Top-Level Domains	173
22 GAC: Informal Board-GAC Dialogue on 2-Character Codes Issues	172
23 GAC: High Level Government Meeting Lessons Learned	156
24 ICANN Public Board Meeting (AGM)	154
25 GAC: Board GAC Recommendation Implementation Meeting	138
26 GAC: CCWG Auction Proceeds Discussion	135
27 Tech Day (1 of 4)	135
28 Joint Meeting: GAC and ALAC	135
29 GAC: New gTLDs Work Tracks 1 - 4	131
30 ccNSO: Members Meeting Day 1 (2 of 5)	129
31 GAC: NomCom Working Group with NomCom Leadership Meeting	126
32 GAC: Geographic Names WG/WT5 Discussion Meeting	125
33 GAC: Technical Seminar on WHOIS and Data Protection/Privacy Issues	125
34 GAC: Opening Plenary	124
35 GAC: ICANN63 Communique Drafting Session (2)	124
36 Joint Meeting: ICANN Board and ccNSO	118
37 GAC: Post GDPR CC Session Discussion	117
38 GAC: ICANN63 Communique Drafting Session (4)	116
39 Newcomer Day	115
40 Tech Day (2 of 4)	115
41 Joint Meeting: ICANN Board and CSG	113
42 GAC: GAC CBW Evaluation Report Presentation	111
43 GAC: ICANN63 Communique Drafting Session (3)	111
44 Tech Day (3 of 4)	106
45 GNSO - CPH Meeting	106
46 GNSO Working Session	103
47 GAC: Potential 2 Character Codes Plenary Discussion	102
48 Tech Day (4 of 4)	102
49 ccNSO: Members Meeting Day 1 (4 of 5)	100
50 GAC: IGO Access to Curative Rights Protection Mechanisms	99

# ICANN63 | By the Numbers

## Schedule Website and Mobile App Statistics



# Schedule Website and Mobile App Statistics

Schedule Platform | [63.schedule.icann.org](https://63.schedule.icann.org)

For ICANN63, ICANN utilized Pathable for a third time as the schedule platform for an integrated mobile and web application. This platform improves the participants' experience by utilizing a single application across multiple devices and platforms.



## Schedule Platform Quick Stats

Attendees Logged In

**1,073**

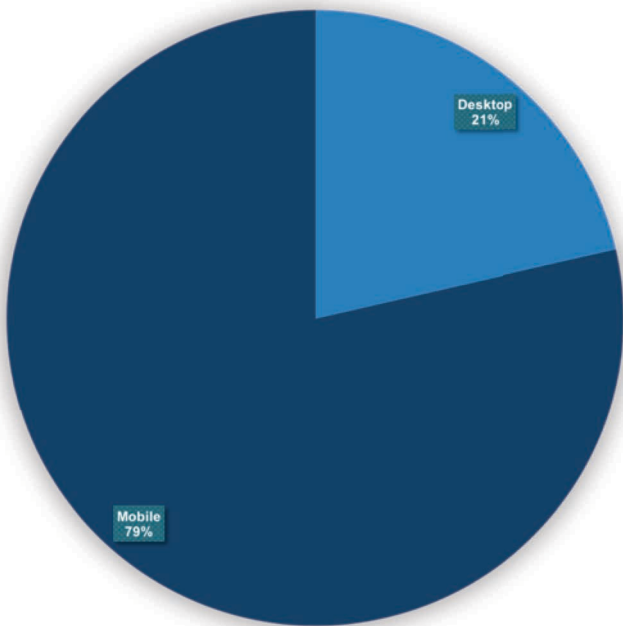
Schedules Created or Downloaded

**1,048**

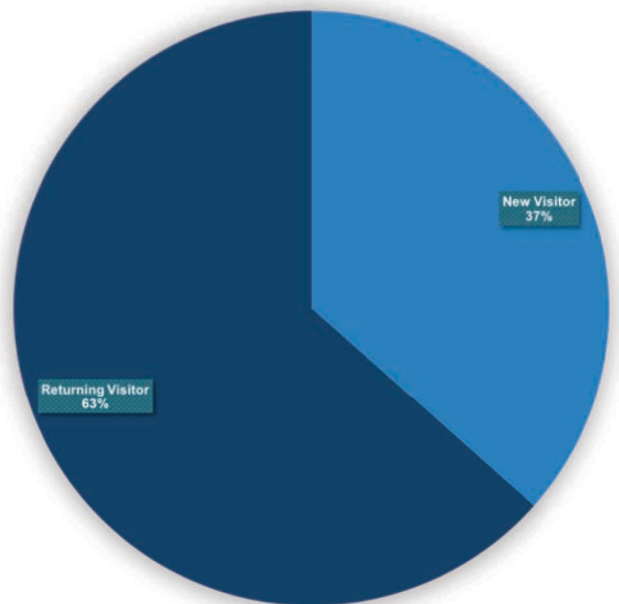
Average Session Duration

**8.11** Minutes

Schedule Platform Usage by Device Category



Schedule Platform Traffic Type



# Schedule Website and Mobile App Statistics

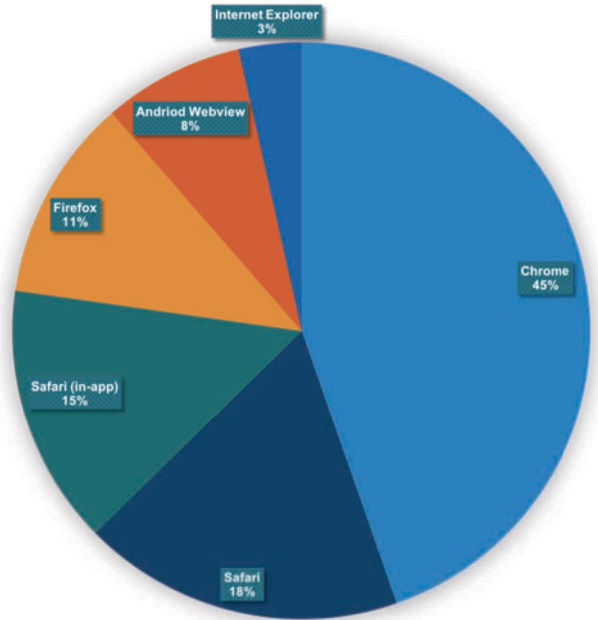
Schedule Platform | [63.schedule.icann.org](https://63.schedule.icann.org)

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.

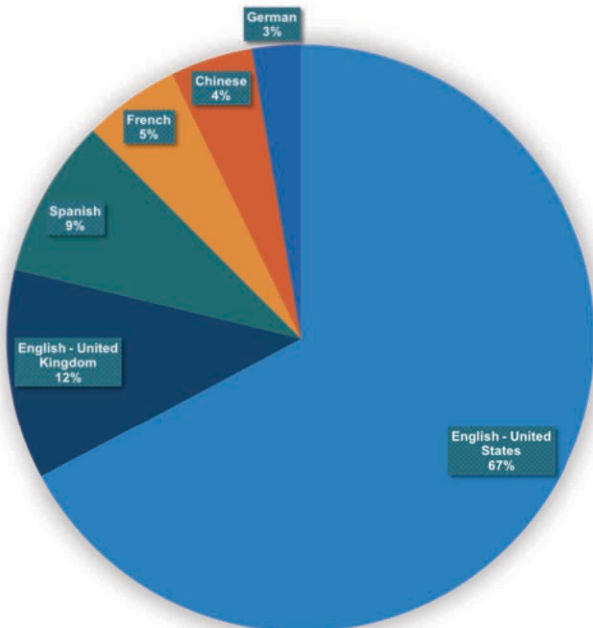
The Meetings Technical Services (MTS) team digitally tests all audio recordings before they are posted. Periods of dead air are removed so listeners don't have to fast-forward through gaps in a recording. When MTS completes this process, the Language Services Department processes and posts the associated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



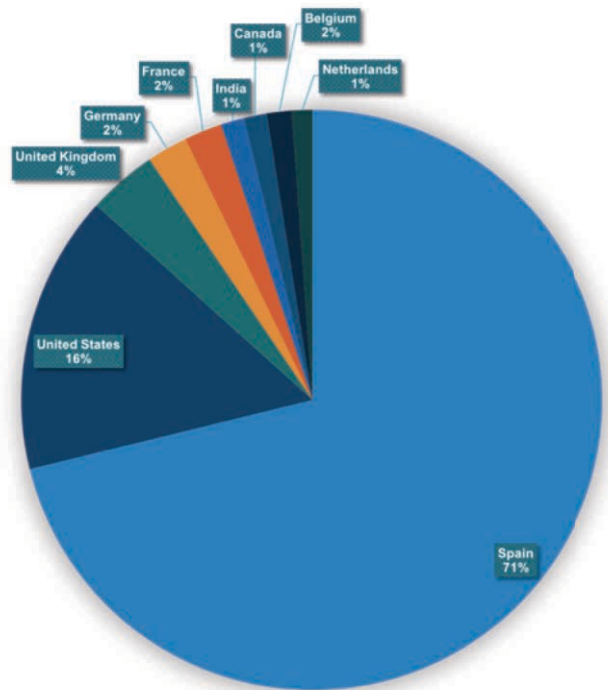
Schedule Platform Usage by Browser



Schedule Platform Users by Language



Schedule Platform Top Usage by Geography





# Schedule Website and Mobile App Statistics



Schedule Platform Total Sessions  
(60-day period)

**↑ 30,538**  
ICANN63 | Barcelona

**15,227**  
ICANN62 | Panama City

Schedule Platform Total Users  
(60-day period)

**↑ 6,146**  
ICANN63 | Barcelona

**3,139**  
ICANN62 | Panama City

Schedule Platform Total Page Views  
(60-day period)

**↑ 226,683**  
ICANN63 | Barcelona

**78,855**  
ICANN62 | Panama City

Schedule Platform  
Average Pages per Session

**↑ 7.42**  
ICANN63 | Barcelona

**5.18**  
ICANN62 | Panama City

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

**↑ 0:07:44**  
ICANN63 | Barcelona

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

Schedule Platform  
Average Bounce Rate

**↑ 7.27%**  
ICANN63 | Barcelona

**23.42%**  
ICANN62 | Panama City

# ICANN63 | 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

# 3,501

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

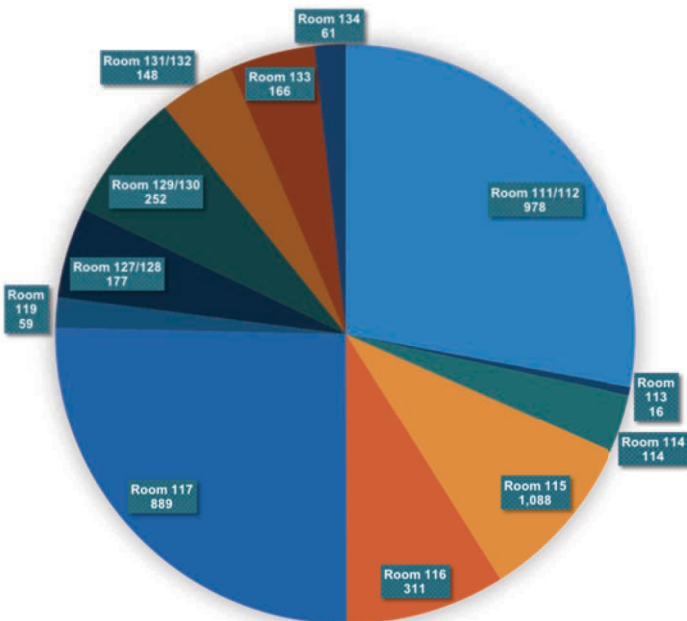
### Adobe Connect Data Report Notice



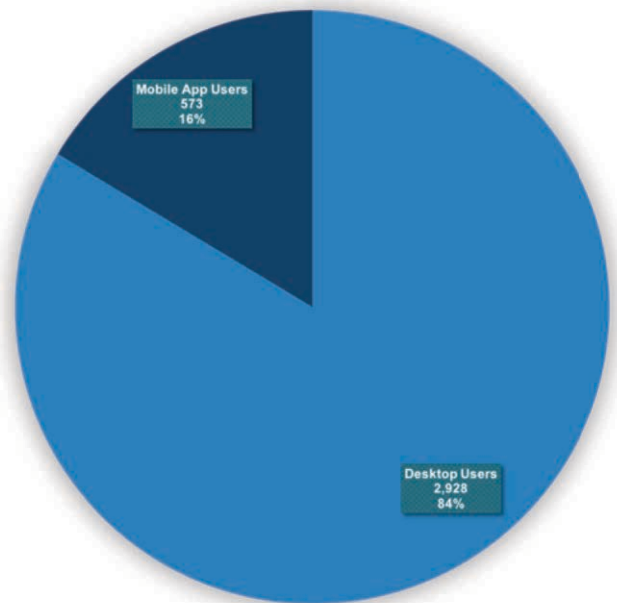
Due to new security protocols put in place with Adobe Connect in 2018, we are unable to capture and report participation metrics on “closed” sessions.

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



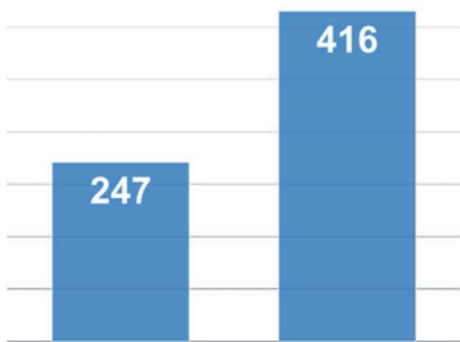
# Remote Participation – Audio

Total Recorded Audio Hours of Meetings

## 882 Hours

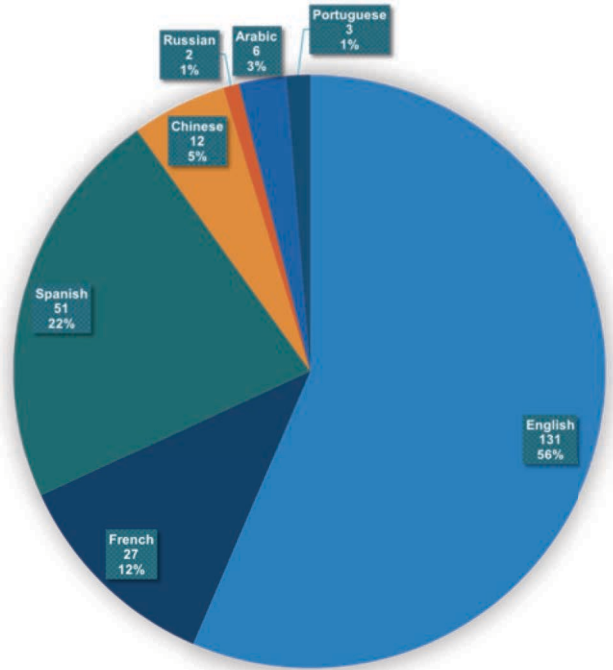


Total Telephone Calls and Hours

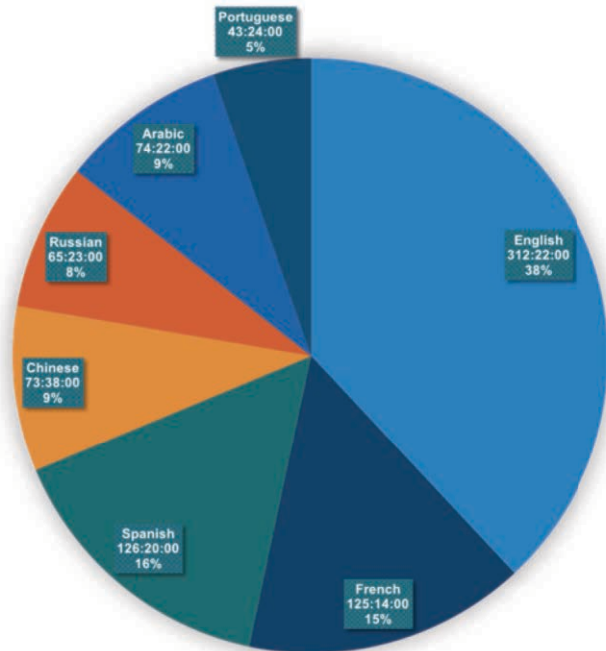


Total Telephone Calls    Total Telephone Hours

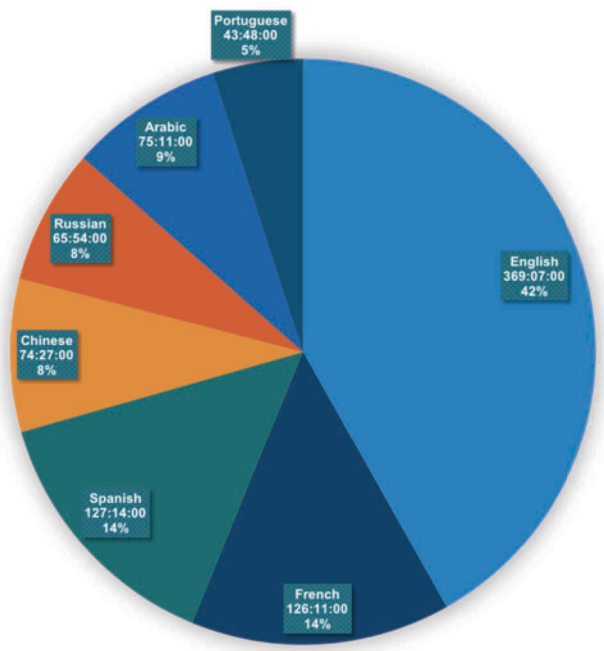
Total Streaming Audio Listeners by Language



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	HLGM: The Internet Technological Evolution and the Role and Impact of ICANN - ICANN63	3,104
2	Public Forum 2 - ICANN63	222
3	ICANN63 Welcome Ceremony	172
4	HLGM: Welcome and Introductory Remarks - ICANN63	137
5	21 October GAC Morning Sessions - ICANN63	130
6	Public Forum 1 - ICANN63	128
7	Cross-Community Session: GDPR - ICANN63	123
8	ICANN Public Board Meeting (AGM) - ICANN63	115
9	23 October GAC Morning Sessions - ICANN63	114
10	DNSSEC for Everybody: A Beginner's Guide - ICANN63	112
11	ICANN@20 Years - ICANN63	98
12	23 October GAC Afternoon Sessions - ICANN63	88
13	HLGM: Global Digital Agenda and Internet Policies - ICANN63	77
14	High-Interest Topic: EPDP on the Temporary Specification for gTLD Registration Data	74
15	21 October GAC Afternoon Sessions - ICANN63	72
16	High Interest Topic: Innovation in Top-Level Domains - ICANN63	69
17	Newcomer Day - ICANN63	54
18	24 October GAC Afternoon Sessions	49
19	24 October GAC Morning Sessions	37
20	GAC: Opening Plenary - ICANN63	35
21	ICANN GDD: RDS/WHOIS Update - ICANN63	30
22	ICANN Community Recognition Program - ICANN63	28
23	HLGM: Thematic Challenges in the IG Ecosystem – Cybercrime, Data Protection and Privacy - ICANN63	25
24	FY20 Budget Planning and Process - ICANN63	24
25	Joint Meeting: ICANN Board and ALAC - ICANN63	24
26	Open Data Initiative - ICANN63	23
27	Joint Meeting: ICANN Board and CPH - ICANN63	22
28	Joint Meeting: ICANN Board and NCSG - ICANN63	22
29	ICANN 5-Year Strategic Planning: Strategic Direction, Prioritization, and Community Input 1 - ICANN63	22
30	Joint Meeting: ICANN Board and CSG - ICANN63	20
31	Joint Meeting: ICANN Board and ASO - ICANN63	20
32	Joint Meeting: ICANN Board and SSAC - ICANN63	17
33	GAC: Joint Meeting with Public Technical Identifiers (PTI) - ICANN63	14
34	Engagement Session with the RDS-WHOIS2 Review Team - ICANN63	13
35	GAC: NomCom Working Group Meeting	13
36	Joint Meeting: ICANN Board and RSSAC - ICANN63	11
37	GAC: Potential 2 Character Codes Plenary Discussion - ICANN63	11
38	Engagement Session with the SSR2 Review Team - ICANN63	10
39	GAC: IGO Access to Curative Rights Protection Mechanisms	10
40	Name Collision Analysis Project (NCAP) Public Session - ICANN63	8
41	GAC: CSWG Auction Proceeds Discussion - ICANN63	6

5,383



# 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	Arabic	Portuguese
1 ICANN63 Welcome Ceremony	9	1	4	1	---	---	
2 Public Forum 2	5	2	2	1	---	1	
3 Public Forum 1	6	1	2	---	---	---	
4 High-Interest Topic: EPDP on the Temporary Specification for gTLD Registration Data	1	---	---	1	---	---	
5 Cross-Community Session: GDPR	4	---	4	---	---	---	
6 GAC: Technical Seminar on WHOIS and Data Protection/Privacy Issues	5	---	2	1	1	1	1
7 HLG: The Internet Technological Evolution and the Role and Impact of ICANN	1	1	1	1	---	---	---
8 GAC: WHOIS & GDPR: Discussion with IPC and NCSG	1	1	---	---	---	---	---
9 ICANN Public Board Meeting (AGM)	4	1	---	---	---	---	
10 GAC: Daily Overview of GAC Sessions	---	1	---	1	---	---	1
11 Joint Meeting: ICANN Board and GAC	2	1	---	---	---	---	---
12 Joint Meeting: ICANN Board and CPH	---	2	---	---	---	---	---
13 ICANN Community Recognition Program	1	1	---	---	---	---	
14 HLG: Global Digital Agenda and Internet Policies	1	---	2	1	---	---	---
15 GAC: Amazon update (15 mins) and Review Point for ICANN63 Communique (15 mins)	---	---	---	---	---	---	X
16 ICANN@20 Years	1	1	2	---	---	---	
17 Joint Meeting: GAC and GNSO	---	---	---	---	---	---	X
18 Joint Meeting: GAC and the ccNSO	---	---	---	---	---	---	X
19 High Interest Topic: Innovation in Top-Level Domains	---	1	---	---	---	---	---
20 Joint Meeting: GAC and ALAC	---	---	---	---	---	---	---
21 GAC: Informal Board-GAC Dialogue on 2-Character Codes Issues	---	---	---	---	---	---	---
22 Tech Day (2 of 4)	---	---	---	---	---	---	---
23 Joint Meeting: ICANN Board and CSG	---	---	---	---	---	---	---
24 GAC: Preparation for the Meeting with the ICANN Board	---	---	---	---	---	---	---
25 GAC: New gTLDs Work Tracks 1 - 4	---	---	---	---	1	---	---
26 GAC: High Level Government Meeting Lessons Learned	---	---	1	---	---	---	---
27 ccNSO: Members Meeting Day 1 (2 of 5)	2	---	---	---	---	---	---
28 GAC: GDPR Discussion	---	---	1	1	---	---	---
29 GAC: NomCom Working Group with NomCom Leadership Meeting	---	---	3	1	---	---	---
30 Joint Meeting: ICANN Board and ccNSO	---	---	---	---	---	---	---
31 GAC: Post GDPR CC Session Discussion	1	---	---	---	---	---	1
32 GAC: Board GAC Recommendation Implementation Meeting	---	1	---	---	---	---	---
33 GAC: ICANN63 Communique Drafting Session (3)	---	---	---	---	---	---	---
34 GAC: ICANN63 Communique Drafting Session (2)	---	---	---	---	---	---	---
35 How It Works: Understanding DNS Abuse	3	---	---	---	---	---	---
36 Tech Day (3 of 4)	---	---	---	---	---	---	---
37 Tech Day (1 of 4)	---	---	---	---	---	---	---
38 GAC: Geographic Names WG/WT5 Discussion Meeting	---	---	---	---	---	---	---
39 ccNSO: Members Meeting Day 2 (3 of 4)	---	---	---	---	---	---	---
40 Joint Meeting: ICANN Board and SSAC	2	---	---	---	---	---	---

# ICANN63 | By the Numbers

## General Information

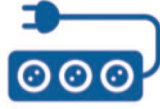


# General Information

## Equipment Deployed for ICANN63



### International Power Strips



300

### Rolls of Gaffer Tape



125

### Laptops



33

### Mac Minis



29

### Telephones



28

### Switches



58

### Printers



15

### Registration iPads



24

### Conference Microphones



356

### Communication Radios



55

### Wireless Access Points



77

# General Information

General Statistics for ICANN63



Televisions Deployed



50

Conference Chairs Set Up



3,500

Flip Chart Markers



288

Electrical Watts Consumed



~2,534,000

Coffee Cups Consumed



20,000

Waiters & Service Staff



100+

Water Coolers Consumed



65

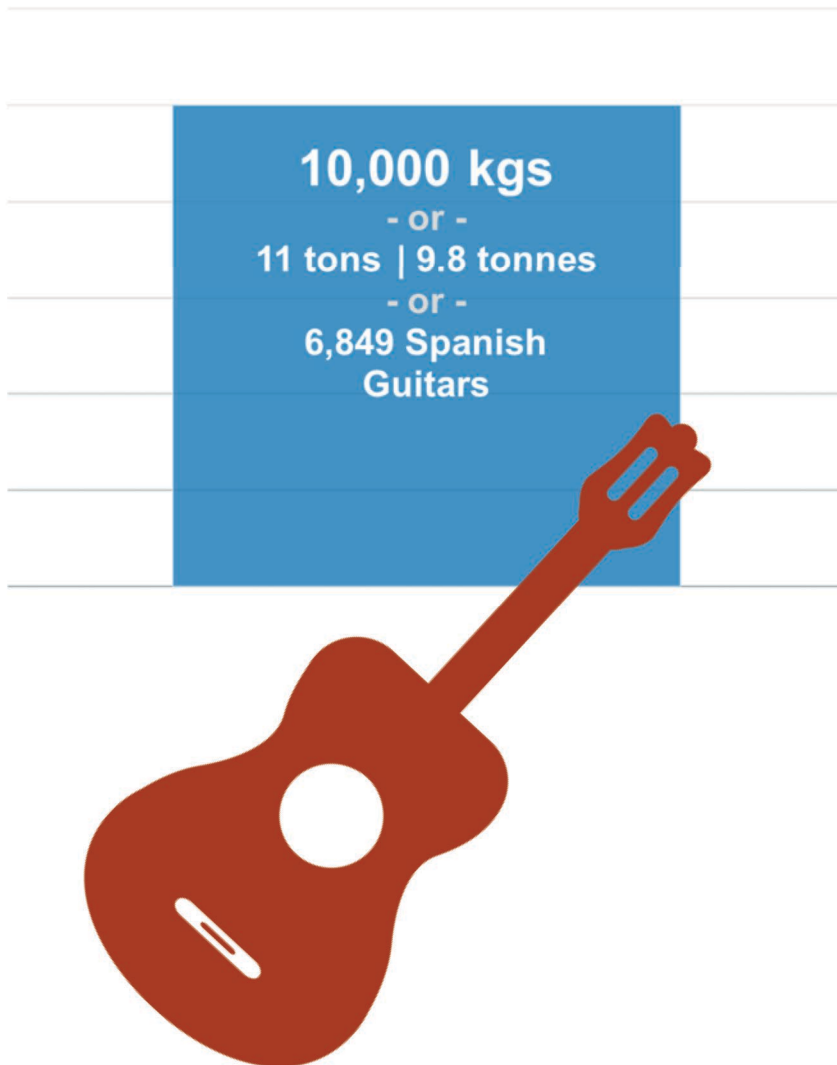
## General Information

### ICANN Equipment Shipped to ICANN63

Much like a touring band, ICANN has 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 ICANN63.

### ICANN-Owned Equipment Shipment Weight



Based on average 1,466 grams / 3.2 lbs. per Spanish Guitar



# ICANN63 | By the Numbers

## Network Operations Center

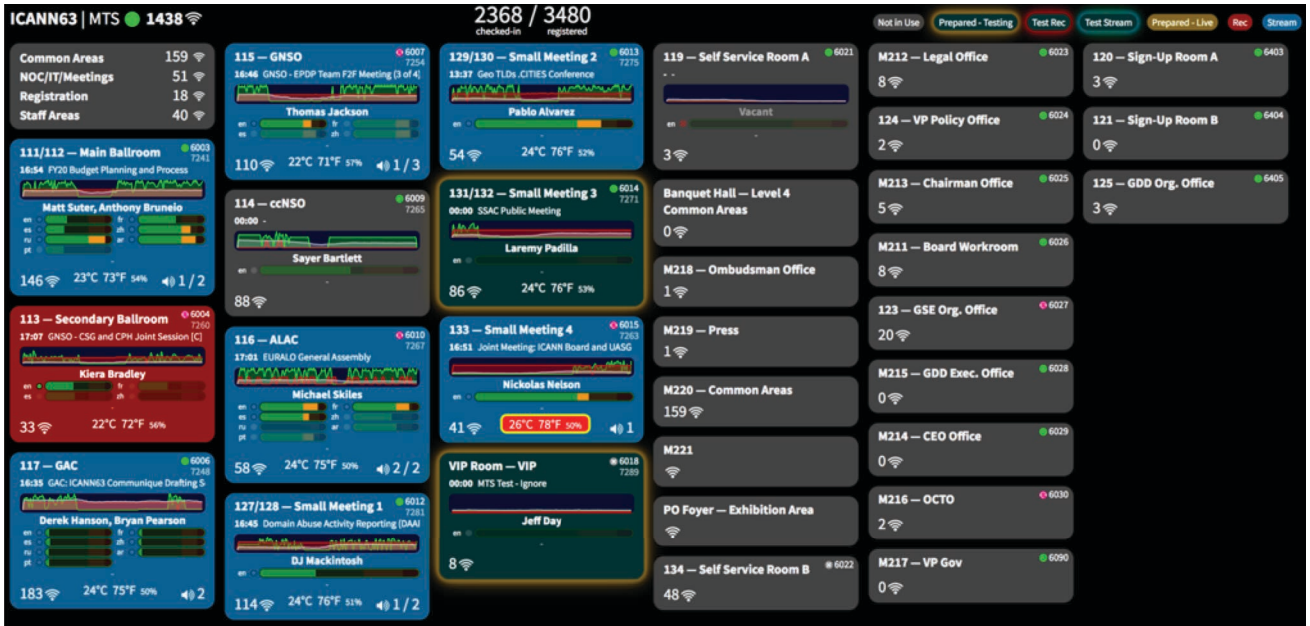


# Network Operations Center

## 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 ICANN63 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

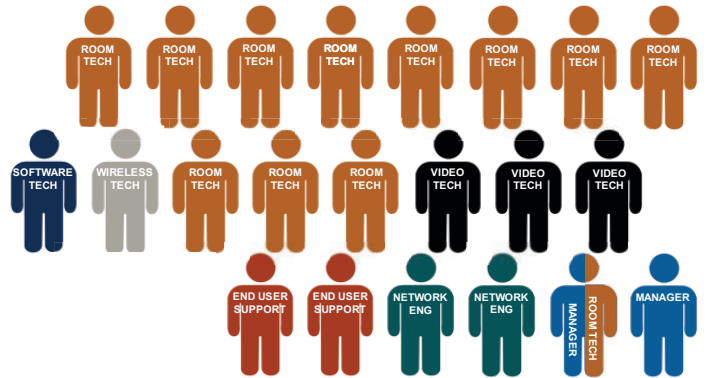
## Meetings Technical Services Team

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  
Chat Messages Exchanged



### Breakdown of MTS Team by Role



## Meetings Technical Services Team | ICANN63



# ICANN63 Meetings Technical Services Team



# Network Operations Center – Barcelona



### 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.



Visitors to the Network Operations Center (NOC)

### Shipment of Equipment

Over 103 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.



Pablo hard at work deploying equipment

### Video Setup

Three operator-controlled pan-tilt-zoom (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.

# ICANN63 | By the Numbers

## Network Statistics and Client Profiles



# Network Statistics

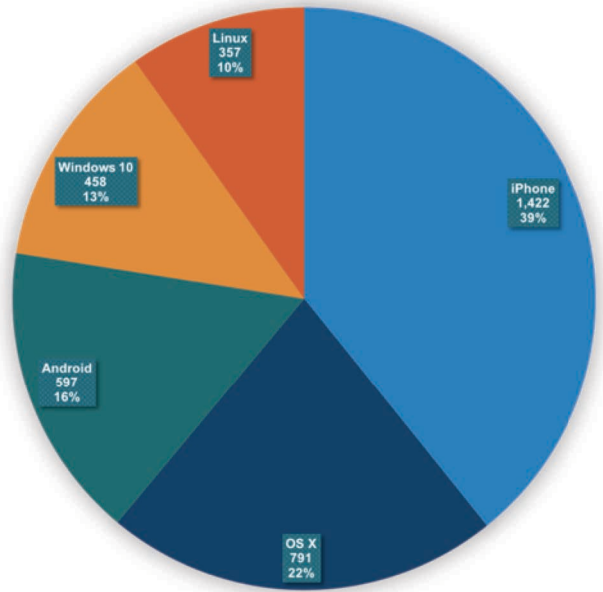
## Overall Network Usage and Statistics

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.

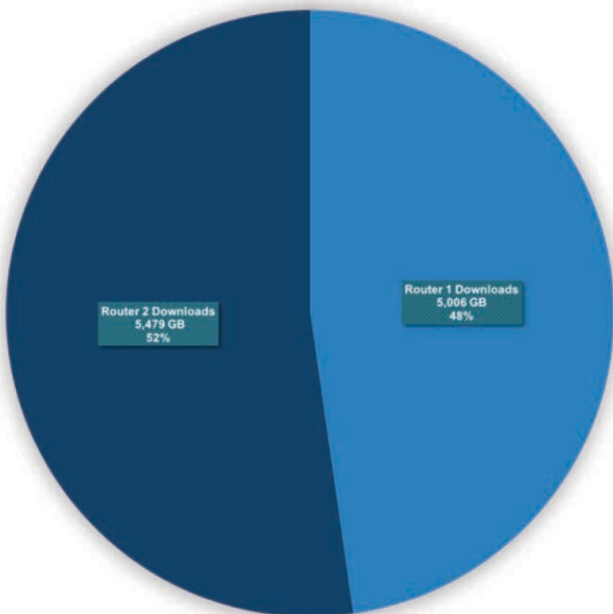
In the “General Information” section, we give the inventory of IT equipment that ICANN deployed for this meeting to meet the unique challenges of this venue.



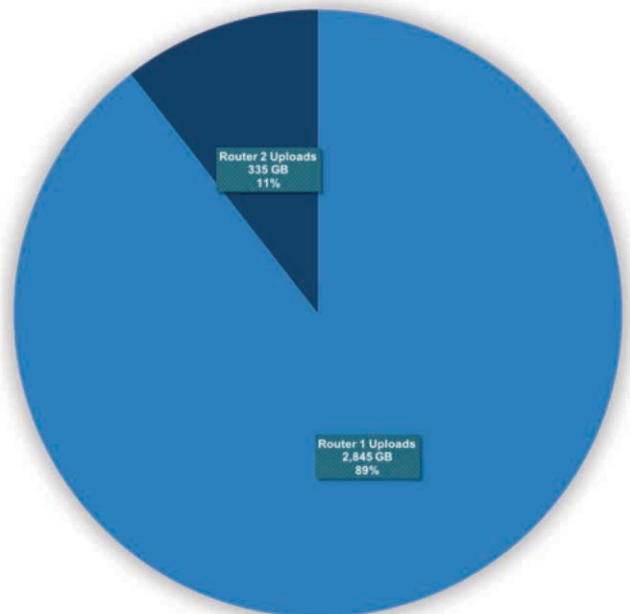
## Clients by Device Type



## 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

**1,072**

IPv6 Download Gbps

**366**

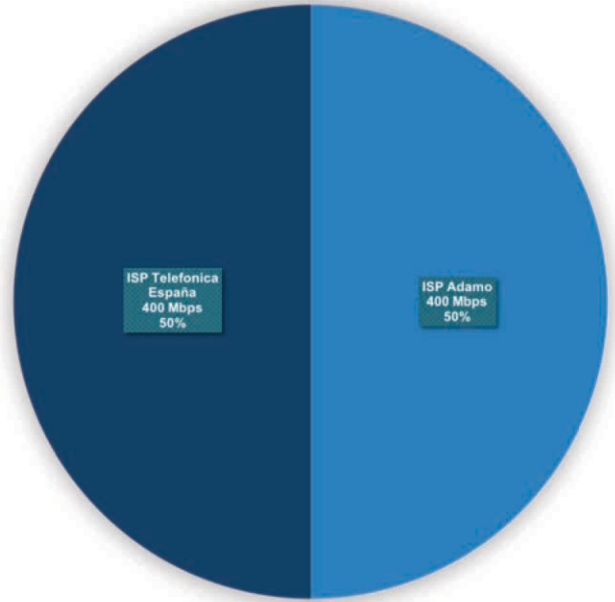
IPv6 Upload Gbps

### IPv6 Network Usage

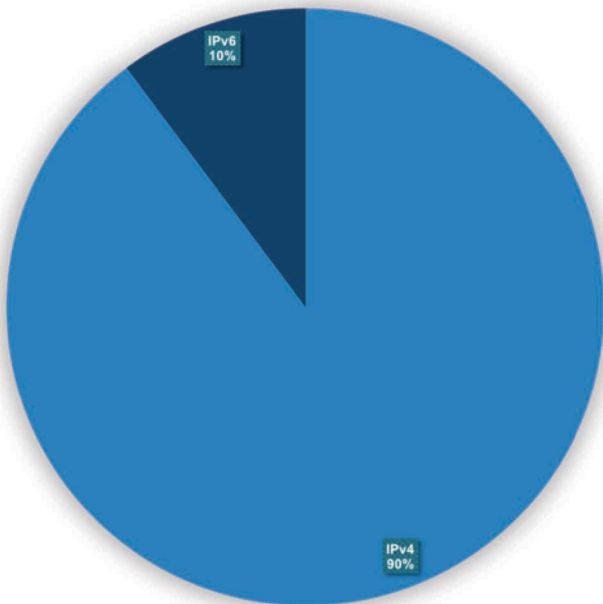
**10%**

+1% increase since ICANN62 in Panama City

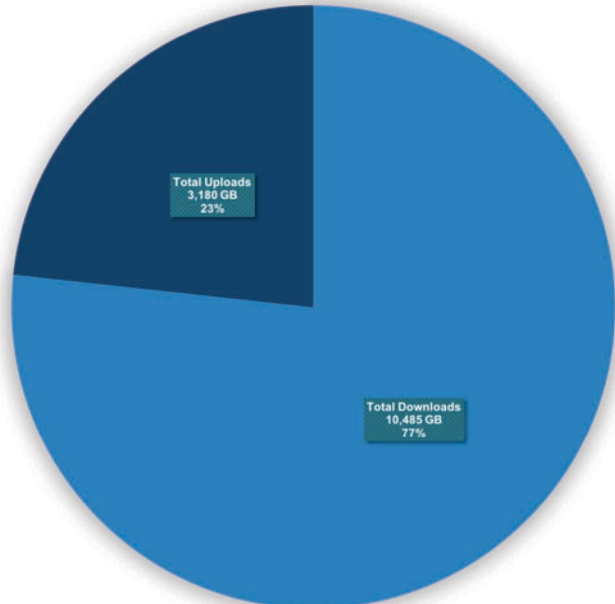
## Internet Service Providers 800 Mbps Service Active /Active Mode



## 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  
23-October-2018



**2,883**

Peak Client Associations



## Peak Bandwidth Utilization

**566**

Peak Download Mbps  
23-October-2018

**288**

Peak Upload Mbps  
22-October-2018

## Bandwidth Speed [During Business Hours per 30 Minutes]

**145**

Average Download Mbps

**36.49**

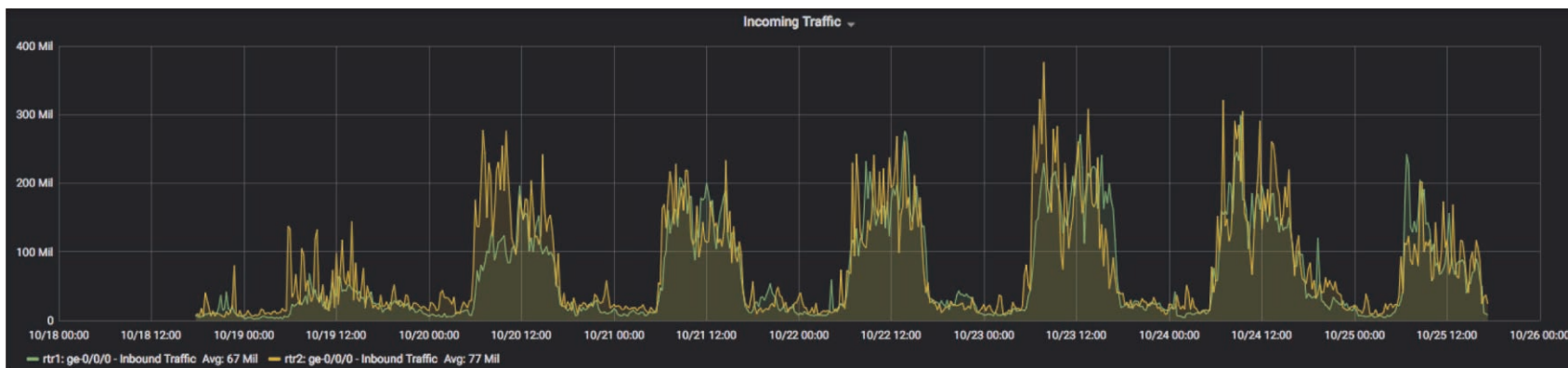
Average Upload Mbps

# Network Statistics – Monitoring

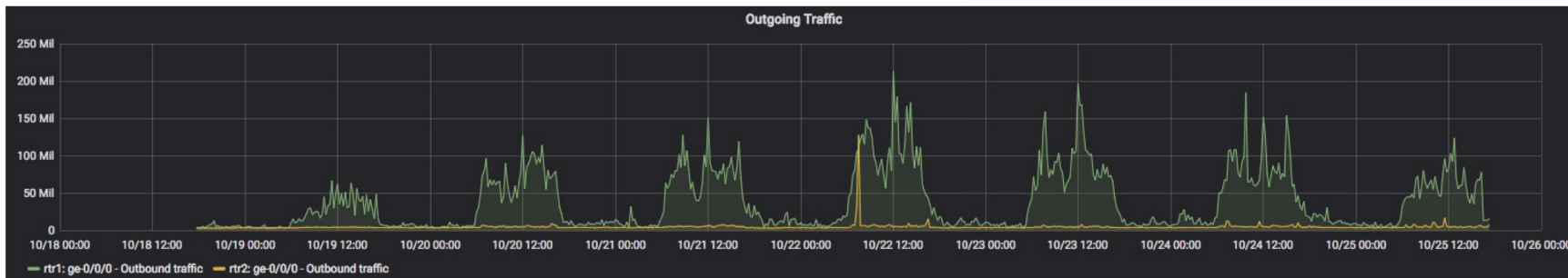
## Bandwidth Utilization

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



# Network Statistics – Tools

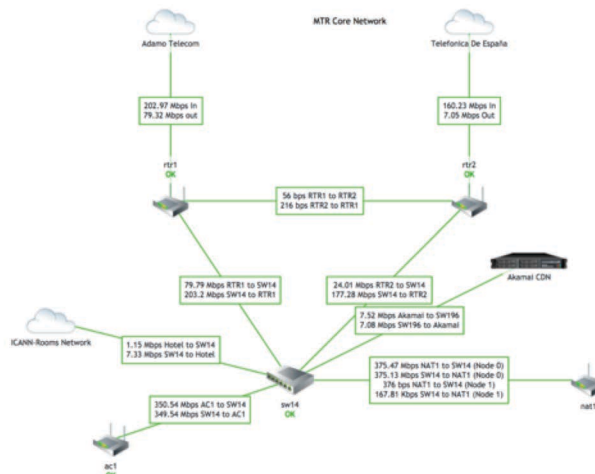
## InterMapper Resource Monitoring Tool

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



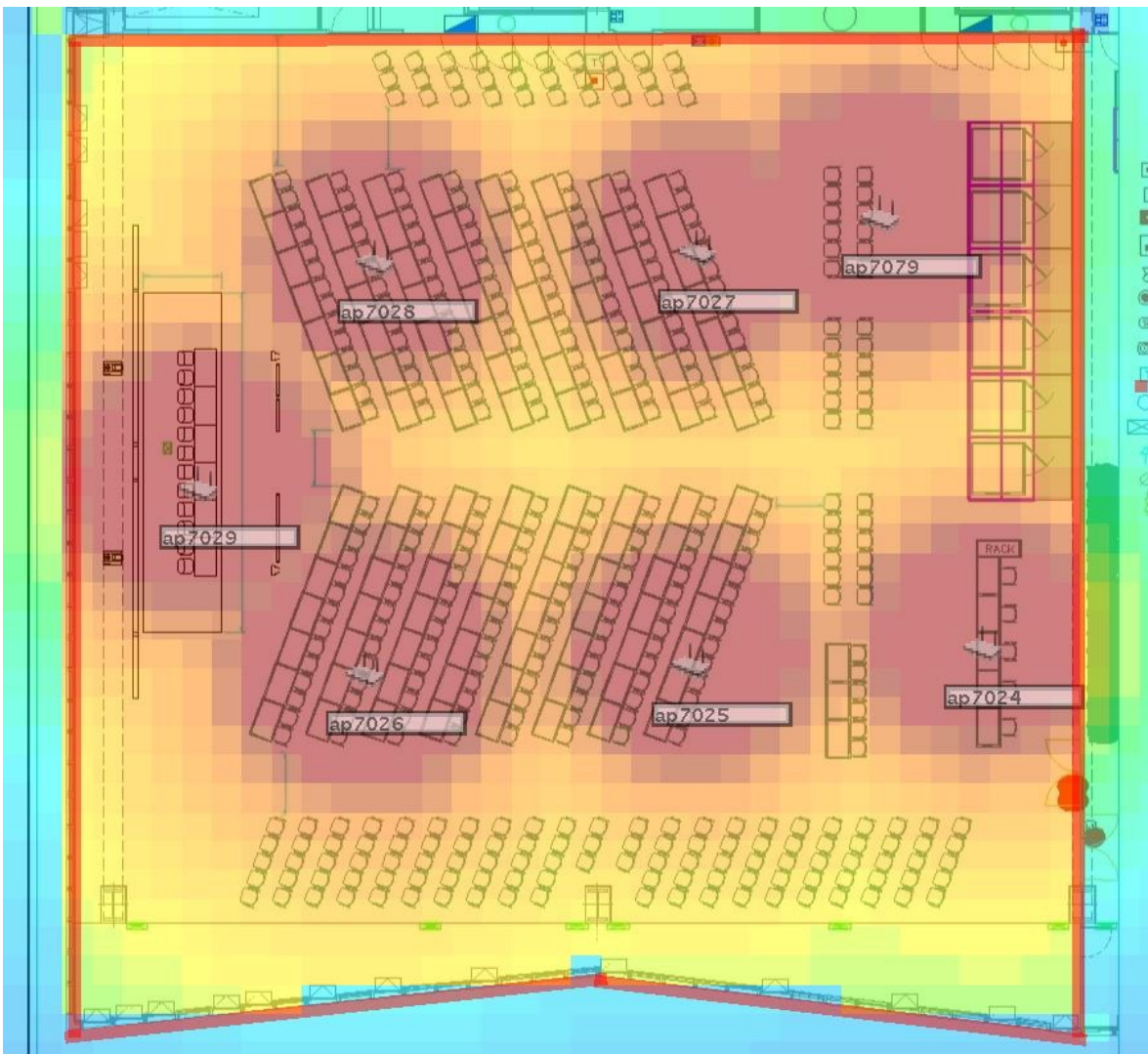
# Network Statistics – Tools

## 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 Centre de Convencions Internacional de Barcelona. 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.

## Centre de Convencions Internacional de Barcelona 117 (GAC)



# ICANN63 | By the Numbers

## Appendix



## Attendee Profile Data

### ICANN63 | Barcelona, Spain | 20-25 October 2018

Total Participants	2,639
First Time Participants (Newcomers)	1,085
Returning Participants	1,554

#### By Gender

Female	526
Male	1,388
Undisclosed	725

#### By Badge Type

Participant	2,252
Media	23
Sponsor	67
Support Staff	100
ICANN Organization	172
ICANN Board	25

#### By Stakeholder Group

Academia	121
Civil Society / Nongovernmental Organization	213
End User	143
Government / Intergovernmental Organization	312
Private Sector - Domain Name Industry	688
Private Sector - General Business / Legal	260
Technical Community	348

#### By Interest Group

ALAC - At-Large Advisory Committee	98
ASO - Address Supporting Organization	36
ccNSO - Country Code Names Supporting Organization	314
DNSSEC - Domain Name System Security Extensions	141
Fellowship Program	57
GAC - Governmental Advisory Committee	256
GDD - Global Domains Division	118
GNSO - Generic Names Supporting Organization	309
I* Organization	31
ICANN - Internet Corporation for Assigned Names and Numbers	275
NextGen@ICANN	26
NomCom - Nominating Committee	17
NRO - Number Resource Organization	21
Other / Special Interest Group	139
RSSAC - Root Server System Advisory Committee	28
SSAC - Security and Stability Advisory Committee	56

## Attendee Profile Data

<b>ICANN Five Regions</b>	
Africa	152
Asia/Australia/Pacific Islands	308
Europe	1,440
Latin America and the Caribbean	127
North America	612

<b>ICANN Meeting Seven Region</b>	
Africa	152
Asia	239
Australia/Pacific Islands	69
Eastern Europe and Central Asia	33
Europe	1,361
Latin America and the Caribbean	127
Middle East	46
North America	612

<b>ICANN63 Hotel Accommodations</b>	
Hotel Barcelona Princess	358
AC Hotel by Marriott Barcelona Forum	341
Hilton Diagonal Mar Barcelona	290
Hotel SB Diagonal Zero Barcelona	246
Hotel Arts Barcelona	14
No Hotel / Local Resident	509
Other Hotel / Not Listed	868



## Attendee Profile Data – By ICANN Five Regions

	Africa	Asia / Australia / Pacific	Europe	Latin America / Caribbean	North America
Total Participants	152	308	1,440	127	612
First Time Participants (Newcomers)	37	106	808	21	113
Returning Participants	115	202	632	106	499
<b>By Gender</b>					
Female	23	70	243	26	164
Male	94	192	694	62	346
Undisclosed	20	26	367	15	45
<b>By Badge Type</b>					
Participant	146	289	1,279	105	433
Media	0	1	21	0	1
Sponsor	0	2	39	1	25
Support Staff	0	5	53	14	28
ICANN Organization	3	9	39	5	116
ICANN Board	3	2	10	2	8
<b>By Stakeholder Group</b>					
Academia	10	29	54	14	14
Civil Society / Nongovernmental Organization	29	38	87	27	32
End User	10	19	61	14	39
Government / Intergovernmental Organization	72	76	132	18	14
Private Sector - Domain Name Industry	22	100	392	16	158
Private Sector - General Business / Legal	9	22	133	16	80
Technical Community	30	39	155	32	92
<b>By Interest Group</b>					
ALAC - At-Large Advisory Committee	18	14	29	20	17
ASO - Address Supporting Organization	5	11	11	4	5
ccNSO - Country Code Names Supporting Organization	43	75	146	22	28
DNSSEC - Domain Name System Security Extensions	21	25	67	3	25
Fellowship Program	10	15	17	10	5
GAC - Governmental Advisory Committee	49	68	109	19	11
GDD - Global Domains Division	3	29	59	1	26
GNSO - Generic Names Supporting Organization	15	47	130	16	101
I* Organization	1	4	17	1	8
ICANN - Internet Corporation for Assigned Names and Numbers	13	36	133	9	84
NextGen@ICANN	2	1	21	0	2
NomCom - Nominating Committee	2	1	5	2	7
NRO - Number Resource Organization	2	5	7	3	4
Other / Special Interest Group	6	14	87	4	28
RSSAC - Root Server System Advisory Committee	0	7	7	1	13
SSAC - Security and Stability Advisory Committee	2	10	15	1	28

## 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	152	239	69	33	1,361	127	46	612
First Time Participants (Newcomers)	37	91	15	14	778	21	16	113
Returning Participants	115	148	54	19	583	106	30	499
<b>By Gender</b>								
Female	23	56	14	6	230	26	7	164
Male	94	146	46	16	650	62	28	346
Undisclosed	20	22	4	3	358	15	6	45
<b>By Badge Type</b>								
Participant	146	225	64	29	1,211	105	39	433
Media	0	1	0	0	21	0	0	1
Sponsor	0	2	0	0	38	1	1	25
Support Staff	0	3	2	0	53	14	0	28
ICANN Organization	3	7	2	3	30	5	6	116
ICANN Board	3	1	1	1	9	2	0	8
<b>By Stakeholder Group</b>								
Academia	10	26	3	3	48	14	3	14
Civil Society / Nongovernmental Organization	29	31	7	8	77	27	2	32
End User	10	12	7	4	53	14	4	39
Government / Intergovernmental Organization	72	61	15	5	109	18	18	14
Private Sector - Domain Name Industry	22	82	18	7	375	16	10	158
Private Sector - General Business / Legal	9	21	1	2	126	16	5	80
Technical Community	30	29	10	3	140	32	12	92
<b>By Interest Group</b>								
ALAC - At-Large Advisory Committee	18	10	4	1	24	20	4	17
ASO - Address Supporting Organization	5	6	5	0	9	4	2	5
ccNSO - Country Code Names Supporting Organization	43	65	10	9	127	22	10	28
DNSSEC - Domain Name System Security Extensions	21	25	0	1	59	3	7	25
Fellowship Program	10	9	6	5	10	10	2	5
GAC - Governmental Advisory Committee	49	56	12	6	92	19	11	11
GDD - Global Domains Division	3	28	1	3	54	1	2	26
GNSO - Generic Names Supporting Organization	15	38	9	5	121	16	4	101
I* Organization	1	1	3	1	15	1	1	8
ICANN - Internet Corporation for Assigned Names and Numbers	13	33	3	3	119	9	11	84
NextGen@ICANN	2	0	1	1	19	0	1	2
NomCom - Nominating Committee	2	1	0	0	4	2	1	7
NRO - Number Resource Organization	2	1	4	0	7	3	0	4
Other / Special Interest Group	6	14	0	2	80	4	5	28
RSSAC - Root Server System Advisory Committee	0	7	0	0	6	1	1	13
SSAC - Security and Stability Advisory Committee	2	6	4	0	13	1	2	28

## Session Statistics Data

Overall Meeting Statistics	
Total Session Counts	338
Total Session Hours	596.5
Actual Attendance for All Sessions	17,322
Checked-In Attendees	2,639
Counts by Session Type	
	Session Count
Sign Up Rooms	72
Closed - Member Only Sessions	64
Open Sessions	242
Hours by Session Type	
	Session Hours
Sign Up Rooms	85.5
Closed - Member Only Sessions	93
Open Sessions	365
Remote Participation - Adobe Connect *	
Total Unique Participants *	3,501
Tablet Connections *	16,831
Mobile Phone Connections *	33,328
Mobile Users * **	573
Mobile Minutes * **	11,100
* Only accounts for Open Sessions	
** Does not include 111/112 and 117 data due to technical limits	
Overall Resource Usage	
Adigo Phone Conference Bridge Calls	24
Adigo Phone Conference Total Hours	34.75
PGI/GlobalMeet Conference Bridge Calls	34
PGI/GlobalMeet Conference Total Hours	98.25
Verizon Conference Bridge Calls	75
Verizon Conference Total Hours	140.5
Remote Participation Manager Requests	242
Remote Participation Manager Total Hours	364.75
Telephone Calls Conducted	146
Telephone Calls Conducted Hours	356.6

## Schedule Website and Mobile App Statistics

Geography	Sessions
Spain	17,992
United States	3,925
United Kingdom	977
Germany	572
France	532
India	331
Canada	319
Belgium	344
Netherlands	291

Device Category	Pageviews
Desktop	10,330
Mobile	37,888

Browser	Users
Chrome	2,604
Safari	1,046
Safari (in-app)	852
Firefox	662
Andriod Webview	459
Internet Explorer	205

User Type	Users
New Visitor	3,545
Returning Visitor	6,146

General Stats	
Sessions	30,538
Users	6,146
Pageviews	226,683
Pages / Session	7.42
Avg. Session Duration	00:07:44
Bounce Rate	7.27%
New Users	3,545

Language	Users
English - United States	3,199
English - United Kingdom	551
Spanish	416
French	251
Chinese	215
German	128

Website Quick Stats	
Attendees Logged In	1,073
Schedules Created or Downloaded	1,048
Average Session Duration	8.11 Minutes
Total Members	1,337

## Remote Participation Data – Adobe Connect

Adobe Connect Remote Participation Stats	
Adobe Connect Total Unique Participants	3,501
Desktop Users	2,928
Mobile App Users	573

Room	Unique Users	Mobile Users	Desktop Users
Room 111/112	978	-	978
Room 113	16	1	15
Room 114	114	26	88
Room 115	330	143	187
Room 116	311	207	104
Room 117	889	-	889
Room 119	59	7	52
Room 127/128	177	40	137
Room 129/130	252	67	185
Room 131/132	148	26	122
Room 133	166	50	116
Room 134	61	6	55

Room	Total Connections	Mobile Users	Total Mobile Minutes
Room 111/112	1877	N/A	N/A
Room 113	18	1	46
Room 114	145	26	574
Room 115	794	143	3112
Room 116	880	207	4,367
Room 117	1829	N/A	N/A
Room 119	74	7	105
Room 127/128	274	40	1,075
Room 129/130	423	67	950
Room 131/132	217	26	330
Room 133	288	50	472
Room 134	71	6	69

## Remote Participation Data

Web Streaming Hours [hh:mm:ss]	
English	312:22:00
French	125:14:00
Spanish	126:20:00
Chinese	73:38:00
Russian	65:23:00
Arabic	74:22:00
Portuguese	43:24:00
<b>Total</b>	<b>820:42:00</b>

Web Streaming Listeners	
English	131
French	27
Spanish	51
Chinese	12
Russian	2
Arabic	6
Portuguese	3
<b>Total</b>	<b>232</b>

Recorded Hours [hh:mm:ss]	
English	369:07:00
French	126:11:00
Spanish	127:14:00
Chinese	74:27:00
Russian	65:54:00
Arabic	75:11:00
Portuguese	43:48:00
<b>Total</b>	<b>881:52:00</b>

## Network Statistics Data

Bandwidth	Mbps
ISP Adamo	400
ISP Telefonica España	400
Total Bandwidth Available	800

Total Data Transferred In/Out	GB
Router 1 - Downloads	5,006
Router 1 - Uploads	2,845
Router 2 - Downloads	5,479
Router 2 - Uploads	335
Total Downloads	10,485
Total Uploads	3,180

IPv6 Data Transferred In/Out	GB
Router 2 IPv6 Uploads	51
Router 2 IPv6 Downloads	0
Router 1 - IPv6 Uploads	315
Router 1 - IPv6 Downloads	1,072
Total IPv6 Downloads	1,072
Total IPv6 Uploads	366

Clients by Device Type	User
iPhone	1,422
OS X	791
Android	597
Windows 10	458
Linux	357

Total Traffic Allocation	%
IPv4	90%
IPv6	10%

Total Traffic	GB
IPv4 Downloads	9,413
IPv4 Uploads	2,814
IPv6 Downloads	1,072
IPv6 Uploads	366

Average Traffic Speed	Mbps
Average Download Speed	145
Average Upload Speed	36.49

Peak Bandwidth Utilization	Mbps
Peak Download Date	23-Oct-18
Peak Download Utilization	566
Peak Upload Date	22-Oct-18
Peak Upload Utilization	288

Peak Wi-Fi Clients	
Peak Date	23-Oct-18
Peak Devices	2,883

Clients by Device Type	%
iPhone	39%
OS X	22%
Android	16%
Windows 10	13%
Linux	10%



## Network Statistics Data – Top 50 Sessions by Wireless Clients

Session Title	Wireless Clients
1 ICANN63 Welcome Ceremony	987
2 Public Forum 2	607
3 Public Forum 1	606
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## Network Statistics Data

Wireless Access Points	Unique Clients	Max Clients	Total Data	Avg Usage
ap7030	3,122	187	189.08 GB	2.58 Mbps
ap7058	3,024	89	113.13 GB	1.33 Mbps
ap7059	2,996	94	209.32 GB	2.46 Mbps
ap7069	2,980	147	181.48 GB	2.72 Mbps
ap7036	2,954	132	136.04 GB	2.06 Mbps
ap7060	2,949	120	125.49 GB	1.48 Mbps
ap7034	2,912	93	89.55 GB	1.36 Mbps
ap7061	2,733	88	98.91 GB	1.17 Mbps
ap7057	2,635	63	42.55 GB	503.43 Kbps
ap7037	2,572	91	215.59 GB	3.26 Mbps
ap7054	2,558	157	254.91 GB	2.59 Mbps
ap7009	2,245	117	283.94 GB	2.89 Mbps
ap7015	2,221	119	188.89 GB	2.47 Mbps
ap7033	2,207	52	68.70 GB	1.04 Mbps
ap7032	2,187	52	49.96 GB	752.63 Kbps
ap7010	2,172	90	158.25 GB	2.49 Mbps
ap7055	2,167	98	291.74 GB	2.96 Mbps
ap7025	1,864	125	402.53 GB	5.31 Mbps
ap7027	1,850	163	301.92 GB	4.48 Mbps
ap7026	1,792	164	381.60 GB	4.96 Mbps
ap7042	1,742	146	376.15 GB	5.07 Mbps
ap7031	1,731	51	50.47 GB	759.99 Kbps
ap7078	1,669	95	75.18 GB	1.02 Mbps
ap7022	1,617	95	387.12 GB	5.18 Mbps
ap7029	1,604	109	352.06 GB	4.58 Mbps
ap7041	1,586	106	347.66 GB	4.69 Mbps
ap7028	1,542	81	234.92 GB	3.48 Mbps
ap7021	1,463	94	386.70 GB	5.15 Mbps
ap7020	1,462	69	322.64 GB	4.30 Mbps
ap7079	1,444	95	363.18 GB	5.70 Mbps
ap7023	1,432	101	388.24 GB	5.21 Mbps
ap7043	1,425	99	332.67 GB	4.48 Mbps
ap7056	1,419	70	52.36 GB	618.35 Kbps
ap7006	1,415	85	321.45 GB	3.77 Mbps
ap7024	1,380	158	459.90 GB	4.74 Mbps
ap7088	1,326	48	83.81 GB	1.14 Mbps
ap7018	1,318	48	87.62 GB	1.15 Mbps
ap7019	1,280	37	129.23 GB	1.47 Mbps
ap7097	1,262	87	77.29 GB	1.05 Mbps
ap7080	1,188	94	215.26 GB	6.25 Mbps
ap7007	1,155	94	330.70 GB	4.14 Mbps
ap7063	1,145	23	75.59 GB	865.52 Kbps
ap7074	1,086	69	105.19 GB	1.43 Mbps
ap7087	1,052	40	54.23 GB	738.19 Kbps
ap7017	1,048	50	57.20 GB	862.74 Kbps
ap7002	1,029	88	800.19 GB	7.36 Mbps
ap7094	1,002	61	30.98 GB	422.52 Kbps
Oap7102	1,002	391	16.37 GB	1.68 Mbps
ap7077	1,000	67	46.99 GB	639.95 Kbps

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

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

## Network Statistics Data

ap7077	1,000	67	46.99 GB	639.95 Kbps
ap7099	989	50	55.11 GB	751.36 Kbps
ap7095	960	69	71.61 GB	976.73 Kbps
ap7092	921	73	85.11 GB	1.16 Mbps
ap7098	892	32	30.03 GB	500.55 Kbps
ap7066	880	88	312.93 GB	3.23 Mbps
ap7073	863	63	36.82 GB	552.30 Kbps
ap7014	842	45	106.90 GB	1.12 Mbps
ap7091	835	44	55.57 GB	758.35 Kbps
ap7093	827	65	35.48 GB	483.69 Kbps
ap7071	807	54	151.12 GB	2.06 Mbps
ap7067	780	120	170.83 GB	1.76 Mbps
ap7075	780	39	48.36 GB	658.67 Kbps
ap7081	774	77	85.13 GB	3.70 Mbps
ap7065	763	105	242.02 GB	2.50 Mbps
ap7053	754	18	62.22 GB	711.79 Kbps
ap7072	749	54	64.45 GB	877.37 Kbps
ap7086	717	35	33.16 GB	496.84 Kbps
ap7090	702	44	39.95 GB	544.91 Kbps
ap7046	636	36	8.37 GB	247.11 Kbps
ap7047	599	185	12.86 GB	389.34 Kbps
ap7011	589	38	62.50 GB	949.61 Kbps
ap7012	574	25	74.73 GB	846.55 Kbps
ap7044	524	21	9.05 GB	267.51 Kbps
ap7004	521	36	27.38 GB	310.67 Kbps
ap7016	513	11	69.19 GB	783.44 Kbps
ap7013	512	16	69.65 GB	789.97 Kbps
ap7005	493	35	30.37 GB	344.37 Kbps
ap7089	461	35	40.64 GB	554.38 Kbps
ap7003	459	44	64.38 GB	731.75 Kbps
ap7076	456	37	23.30 GB	436.71 Kbps
ap7038	448	25	87.21 GB	986.71 Kbps
ap7045	446	69	3.94 GB	116.51 Kbps
ap7008	432	16	88.19 GB	996.91 Kbps
ap7096	389	27	28.49 GB	388.43 Kbps
ap7070	317	38	46.14 GB	835.95 Kbps
ap7068	302	15	128.61 GB	1.53 Mbps
ap7062	267	10	82.02 GB	970.80 Kbps
ap7064	105	7	8.29 GB	86.81 Kbps
ap7039	69	14	4.09 GB	4.19 Mbps
ap7040	28	0	0 MB	0 Kbps
ap7001	27	8	1.88 GB	17.23 Kbps

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

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

# ICANN63 | By the Numbers

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