By The Numbers

ICANN | PUBLIC MEETINGS

What is an ICANN Public Meeting and what happens?

ICANN 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 are we publishing 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 ICANN57, 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 technical report, please contact: mts@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.

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ICANN57 By The Numbers

Attendee Profile

ICANN|57 HYDERABAD | ANNUAL GENERAL

3-9 November 2016

Attendee Profile

Attendee Profile for Hyderabad, India

ICANN57 had a record-breaking 3,182 attendees, exceeding the previous record of 3,115 for ICANN50 in London.

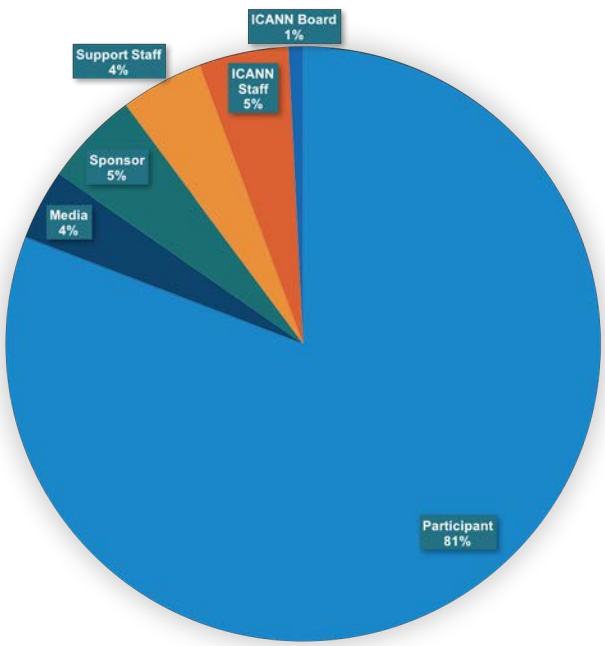
The Annual General Meeting was extended in duration by one day as one of the recommendations put in place by the Meeting Strategy Working Group. To find more information on these recommendations, see https://meetings.icann.org/en/future-meeting-strategy.

ICANN Meetings are a central principle of ICANN's multistakeholder model because they provide a venue for progressing 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.

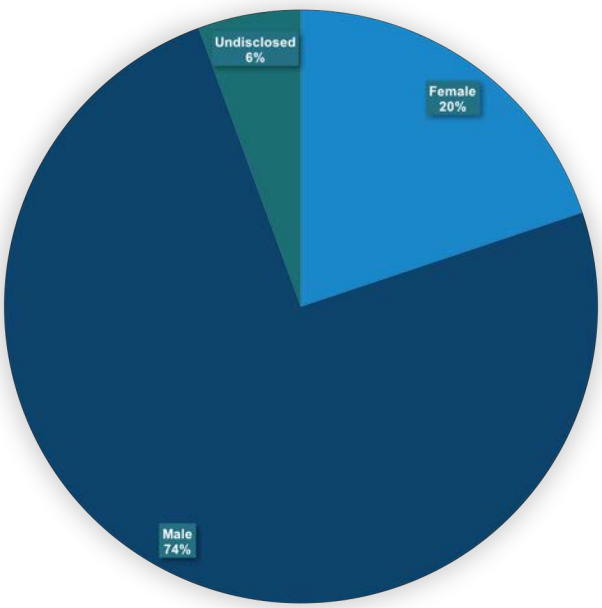
For this section, the attendee profile metrics are derived from data that users provided during the meeting registration process. Attendees were not required to answer all questions.

ICANN|57 HYDERABAD | ANNUAL GENERAL
3-9 November 2016

ICANN57 Attendee Profile by Badge Type

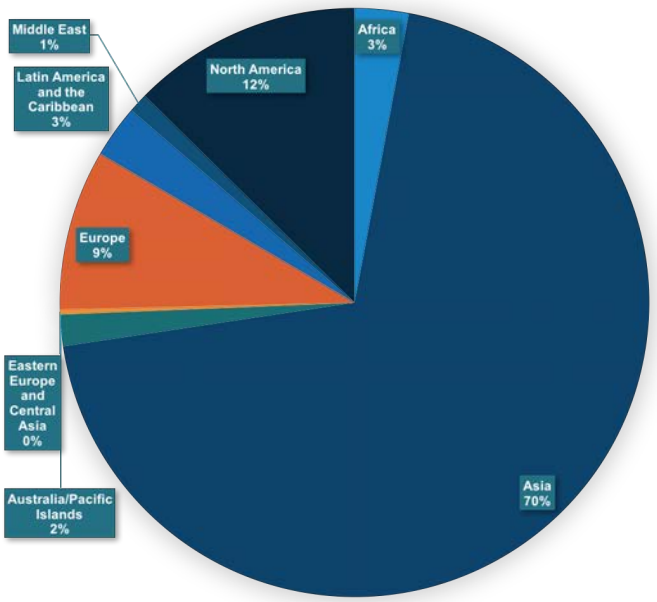


ICANN57 Attendee Profile by Gender

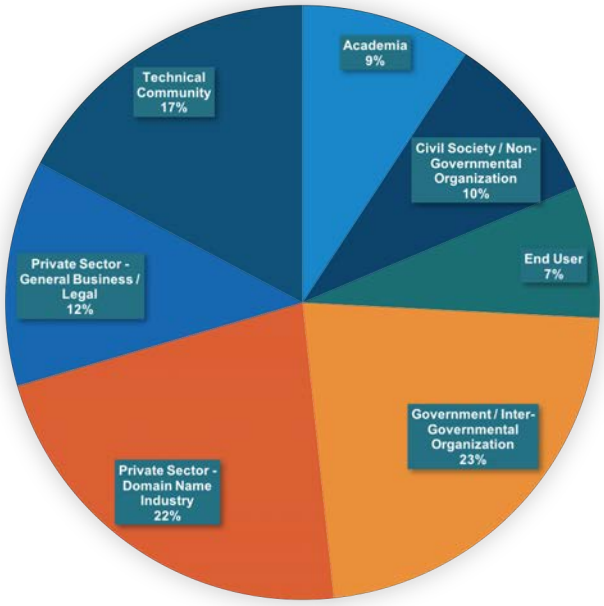


Attendee Profile

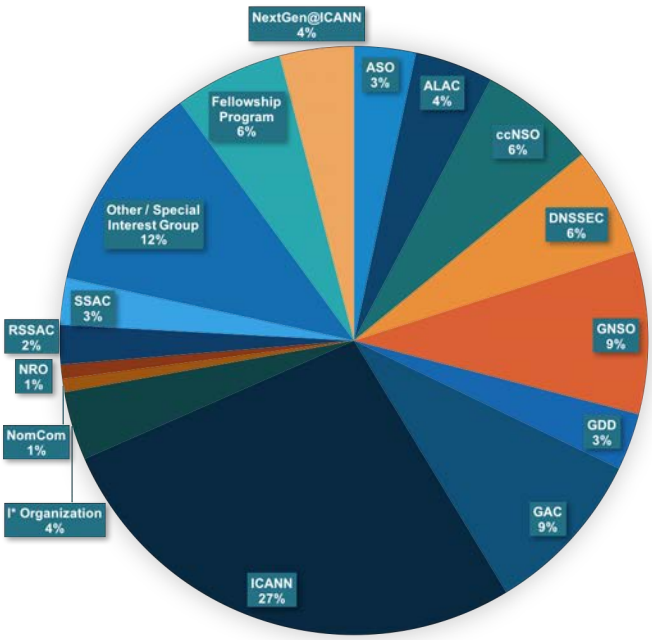
ICANN57 Attendee Profile by ICANN Regions



ICANN57 Attendee Profile by Stakeholder Classification



ICANN57 Attendee Profile by Groups of Interest



- ASO - Address Supporting Organization
- ALAC - At-Large Advisory Committee
- ccNSO - Country Code Names Supporting Organization
- DNSSEC - Domain Name System Security Extensions
- GNSO - Generic Names Supporting Organization
- GDD - Global Domains Division
- GAC - Governmental Advisory Committee
- ICANN - Internet Corporation for Assigned Names and Numbers
- I* Organization
- NomCom - Nominating Committee
- NRO - Number Resource Organization
- RSSAC - Root Server System Advisory Committee
- SSAC - Security and Stability Advisory Committee
- Other / Special Interest Group
- Fellowship Program
- NextGen@ICANN

Attendee Profile by Region

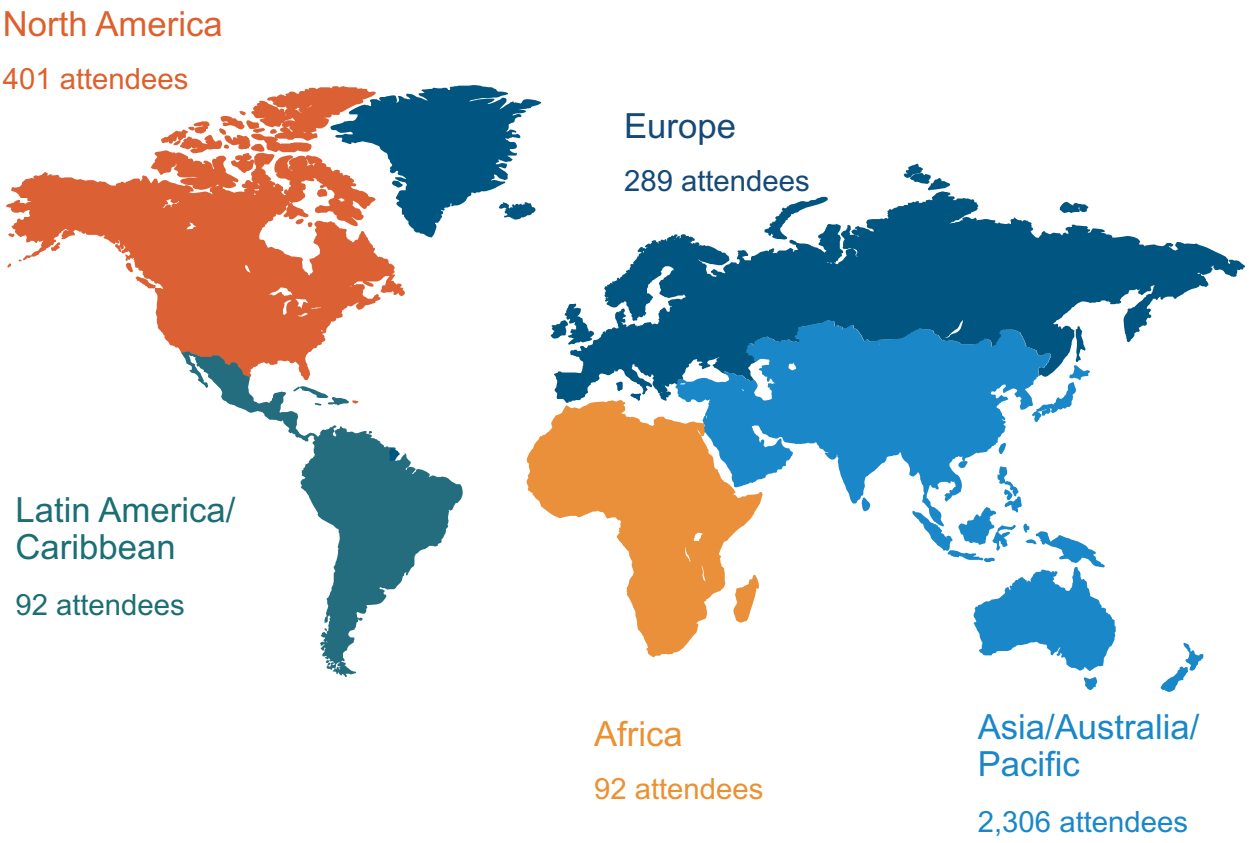
Attendee Profile by ICANN Regions

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 ICANN57 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.



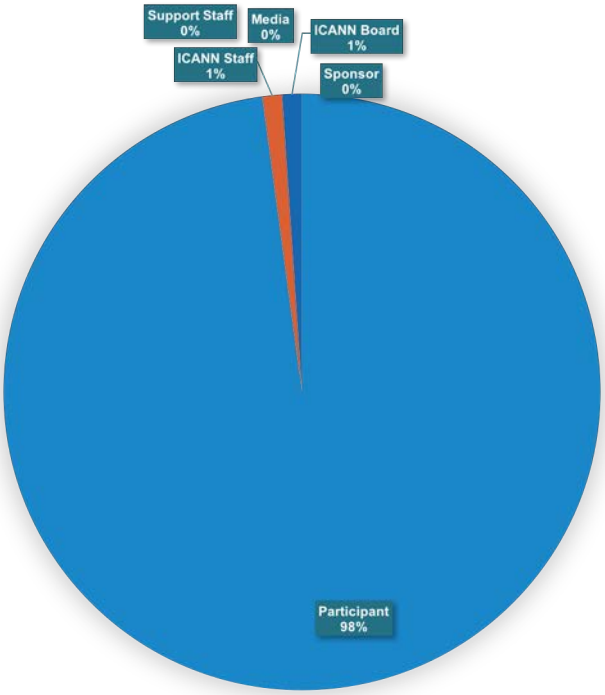
Africa: Regional Attendee Profile

Attendee Profile for Africa

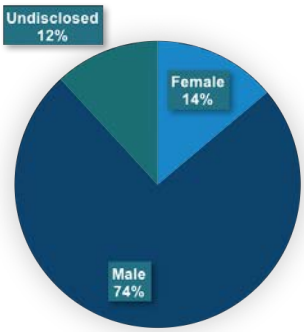
The attendee profile metrics for ICANN57 are derived from data that users provided during the meeting registration process.

- **94 Regional Participants (19 Newcomers)**

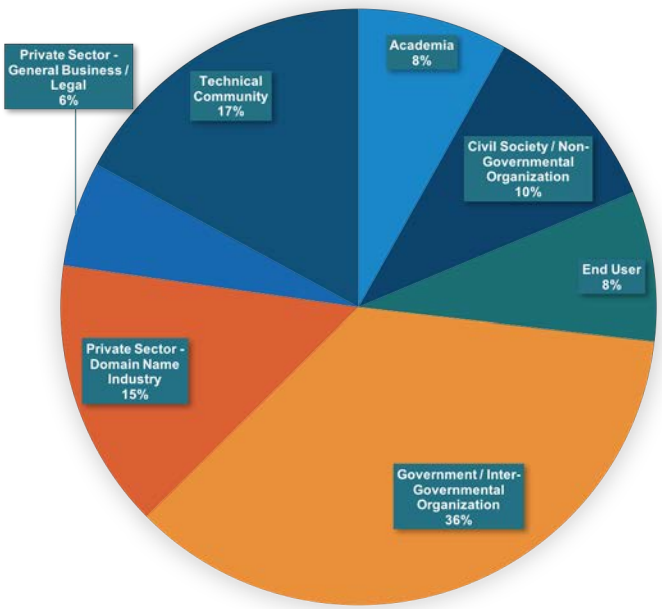
ICANN57 African Region Attendee Profile by Badge Type



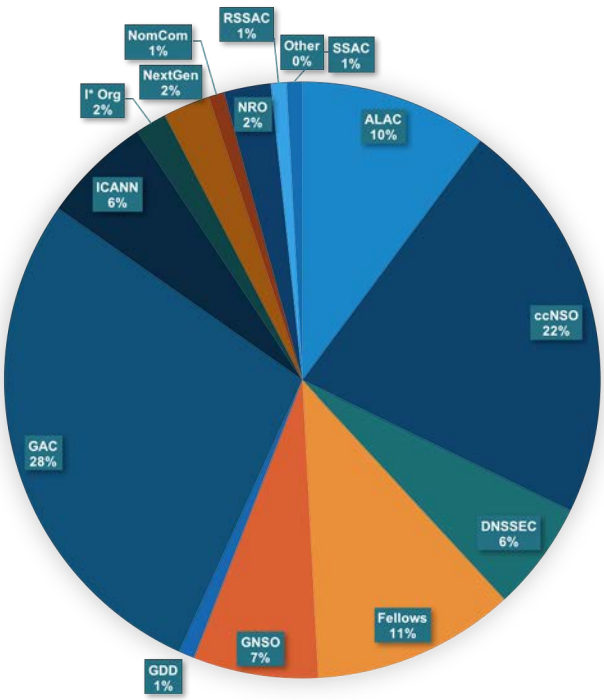
ICANN57 African Region Attendee Profile by Gender



ICANN57 African Region Attendee Profile by Stakeholder Classification



ICANN57 African Region Attendee Profile by Groups of Interest



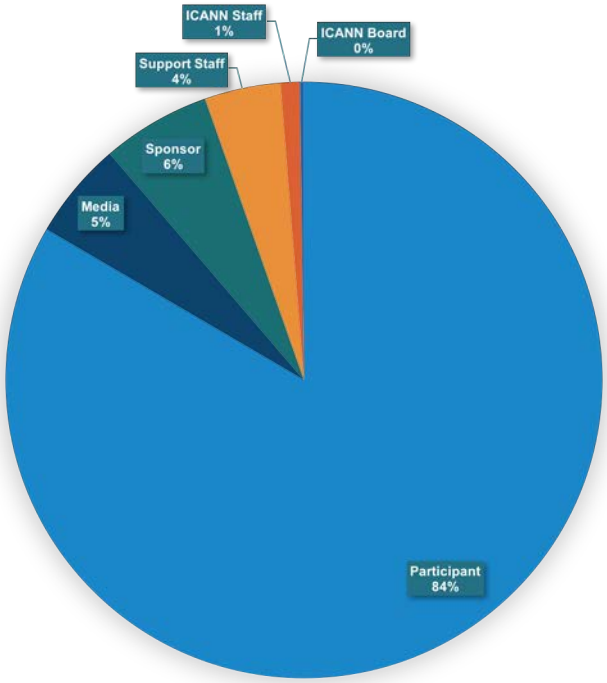
Asia/Australia/Pacific: Regional Attendee Profile

Attendee Profile for Asia, Australia and the Pacific

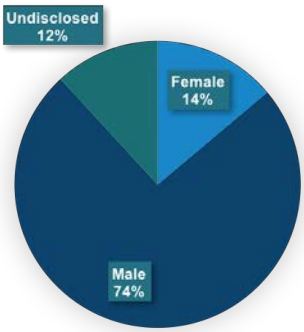
The attendee profile metrics for ICANN57 are derived from data that users provided during the meeting registration process.

- **2,306 Regional Participants (2,056 Newcomers)**

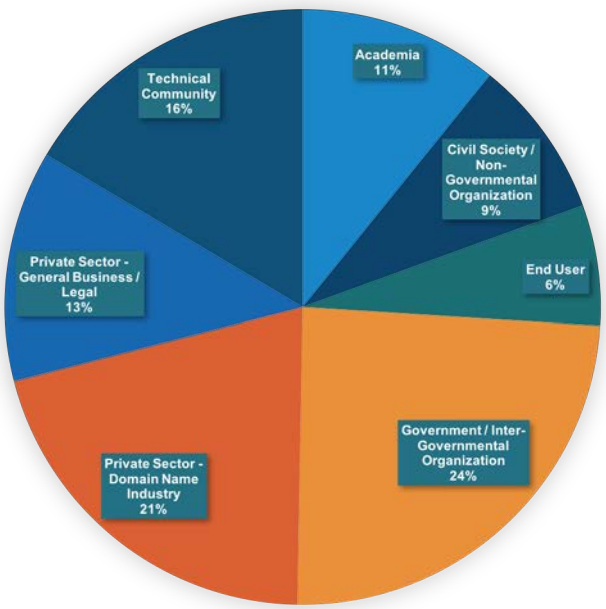
ICANN57 Asian/Australian/Pacific Region Attendee Profile by Badge Type



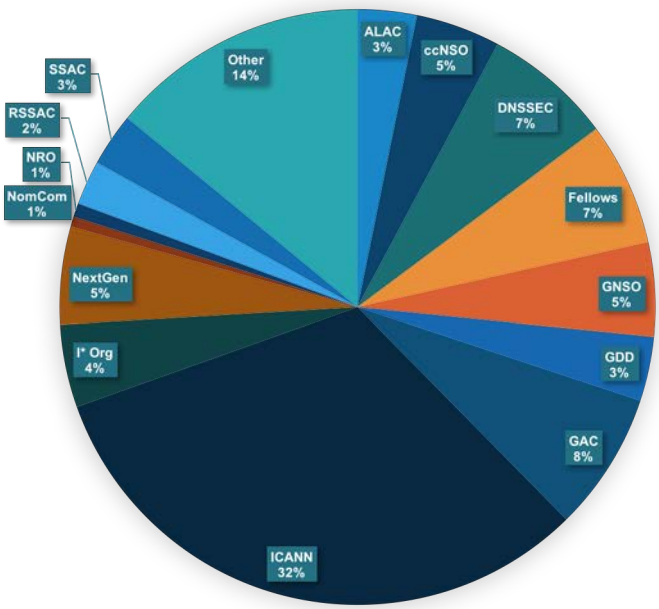
ICANN57 Asian/Australian/Pacific Region Attendee Profile by Gender



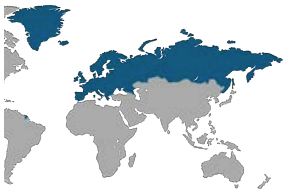
ICANN57 Asian/Australian/Pacific Region Attendee Profile by Stakeholder Classification



ICANN57 Asian/Australian/Pacific Region Attendee Profile by Groups of Interest



Europe: Regional Attendee Profile

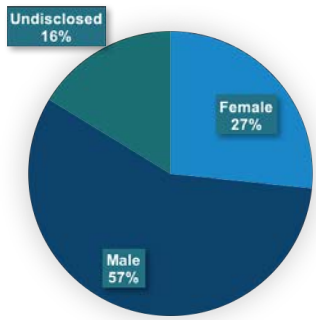


Attendee Profile for Europe

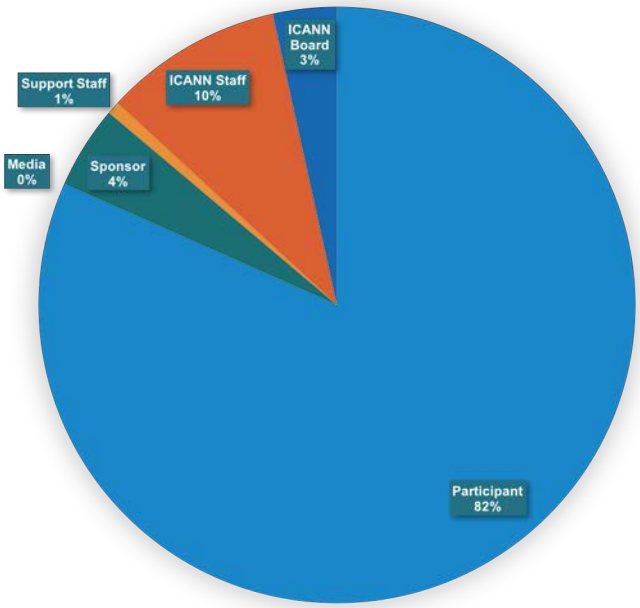
The attendee profile metrics for ICANN57 are derived from data that users provided during the meeting registration process.

- **289 Regional Participants (41 Newcomers)**

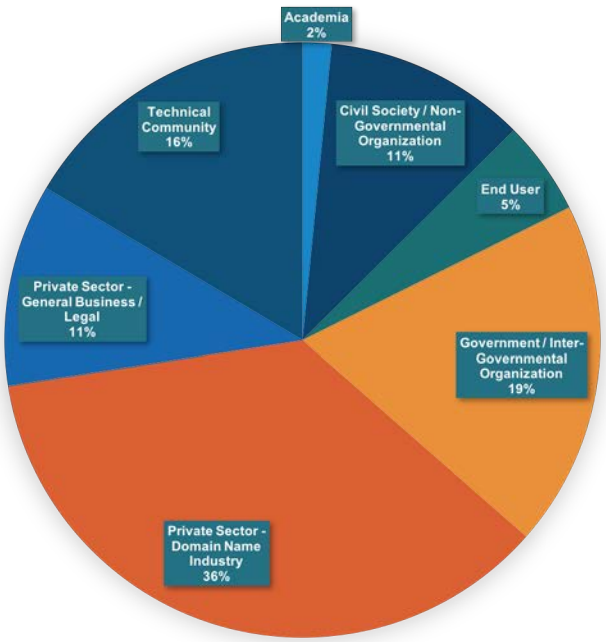
ICANN57 European Region Attendee Profile by Gender



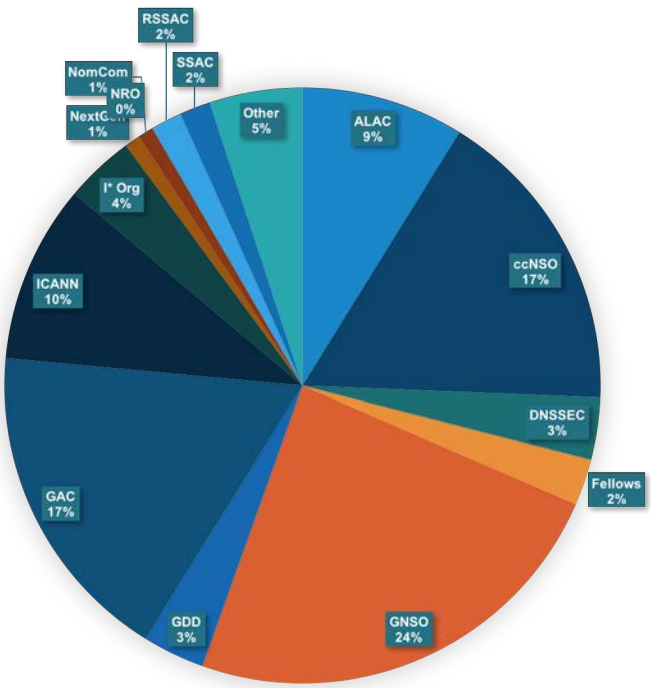
ICANN57 European Region Attendee Profile by Badge Type



ICANN57 European Region Attendee Profile by Stakeholder Classification



ICANN57 European Region Attendee Profile by Groups of Interest



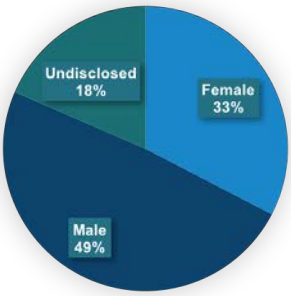
Latin America/Caribbean: Regional Attendee Profile

Attendee Profile for Latin America and Caribbean Islands

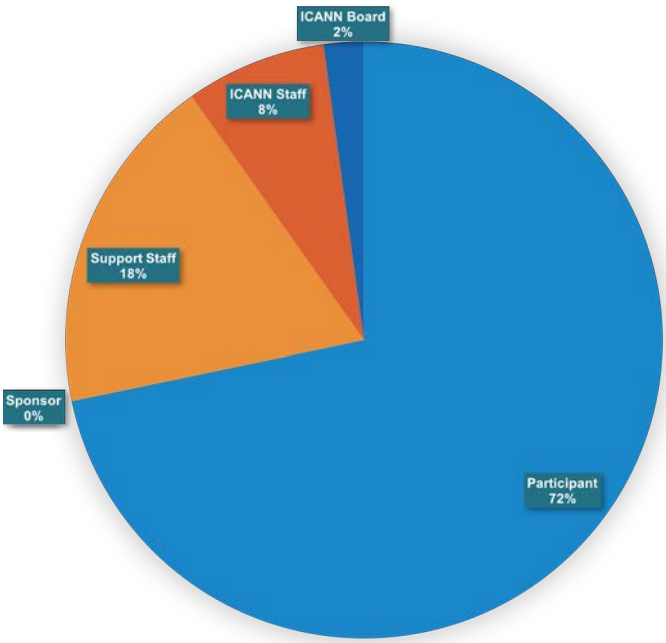
The attendee profile metrics for ICANN57 are derived from data that users provided during the meeting registration process.

- **92 Regional Participants (12 Newcomers)**

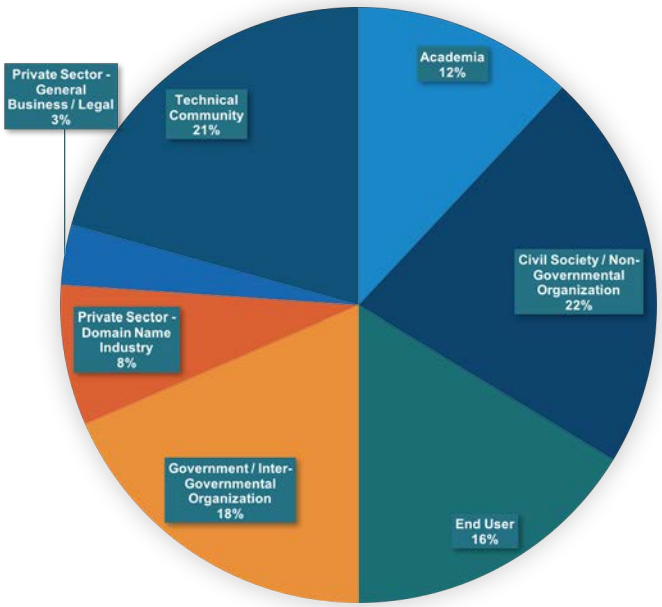
ICANN57 Latin American/Caribbean Region Attendee Profile by Gender



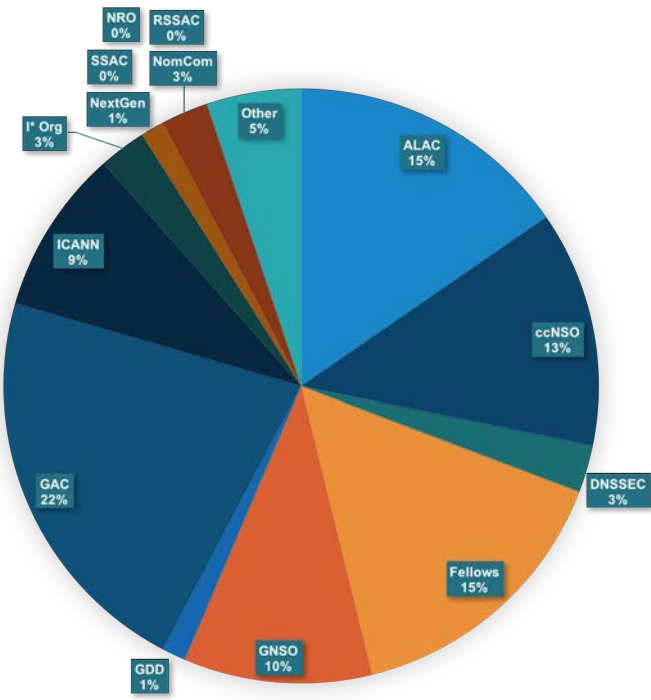
ICANN57 Latin American/Caribbean Region Attendee Profile by Badge Type



ICANN57 Latin American/Caribbean Region Attendee Profile by Stakeholder Classification



ICANN57 Latin American/Caribbean Region Attendee Profile by Groups of Interest



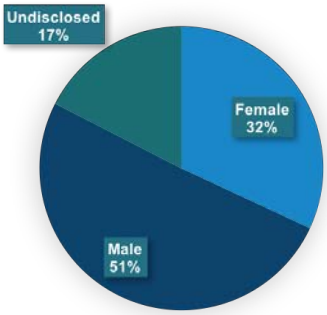
North America: Regional Attendee Profile

Attendee Profile for North America

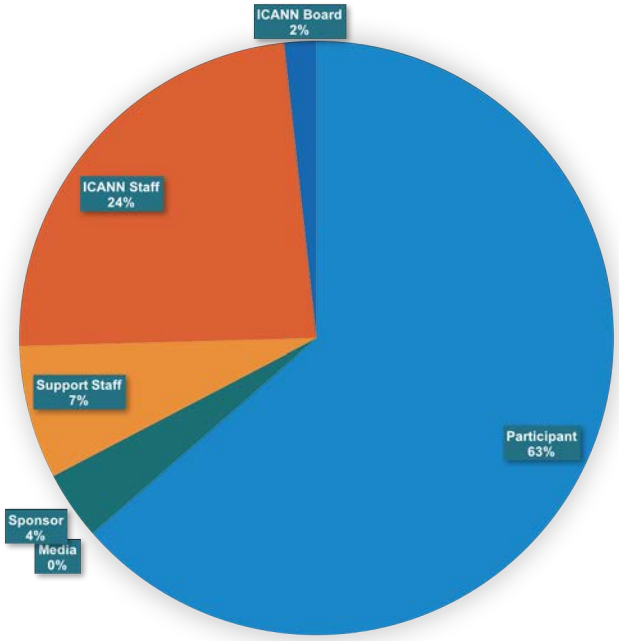
The attendee profile metrics for ICANN57 are derived from data that users provided during the meeting registration process.

- **401 Regional Participants (52 Newcomers)**

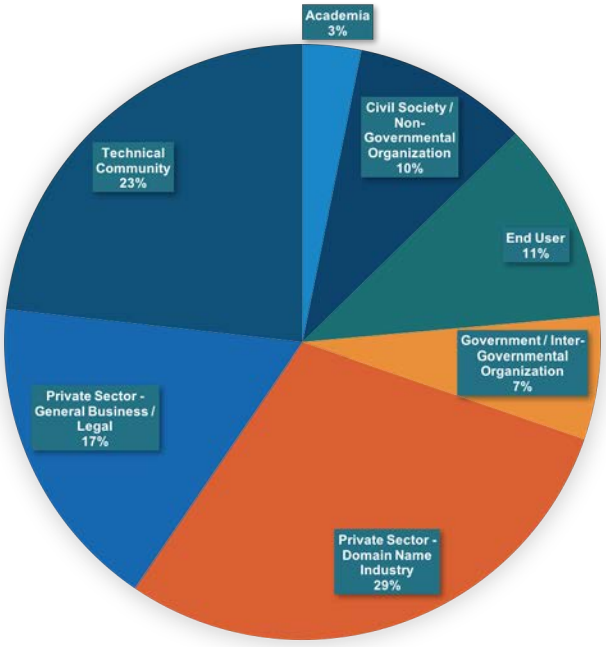
ICANN57 North American Region Attendee Profile by Gender



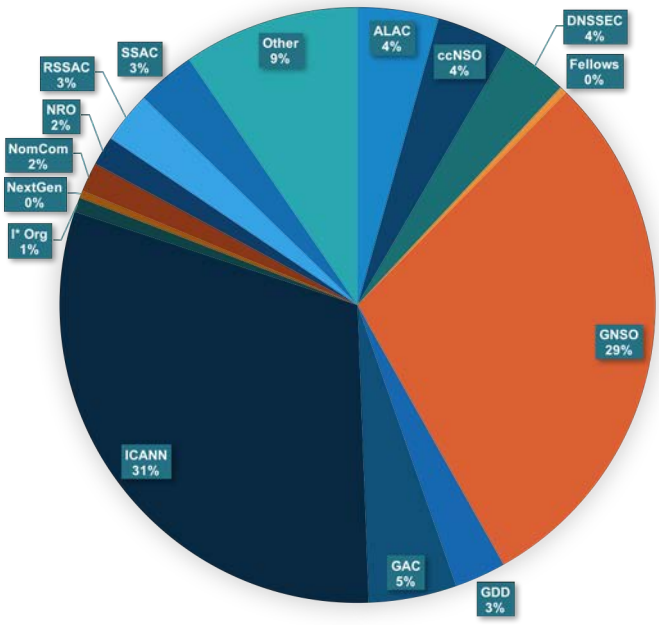
ICANN57 North American Region Attendee Profile by Badge Type



ICANN57 North American Region Attendee Profile by Stakeholder Classification



ICANN57 North American Region Attendee Profile by Groups of Interest



ICANN57 By The Numbers

Session Statistics

ICANN|57 HYDERABAD | ANNUAL GENERAL

3-9 November 2016

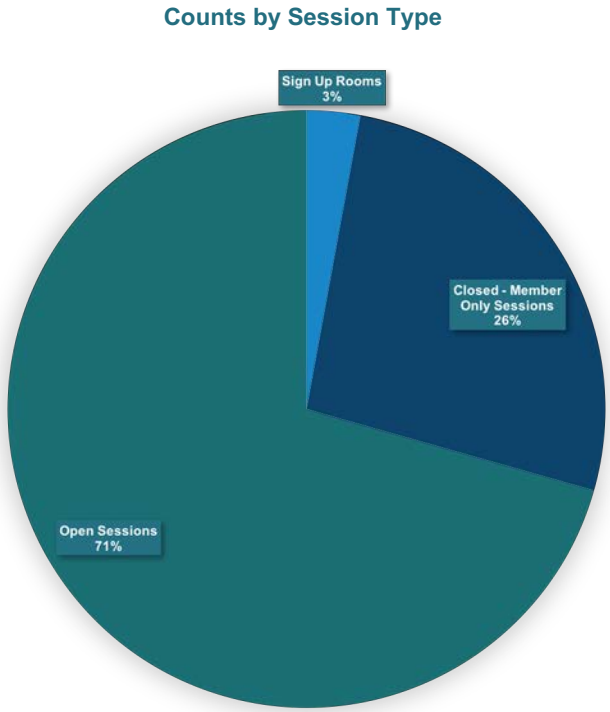
Session Statistics

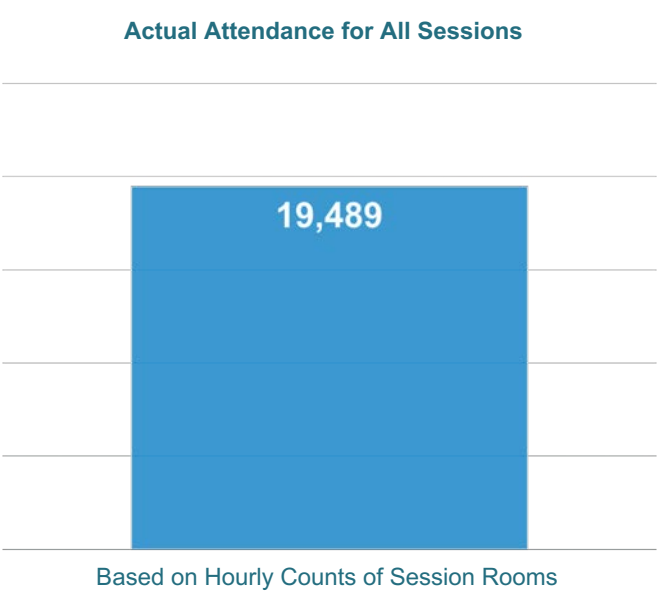
Session Statistics for Hyderabad, India

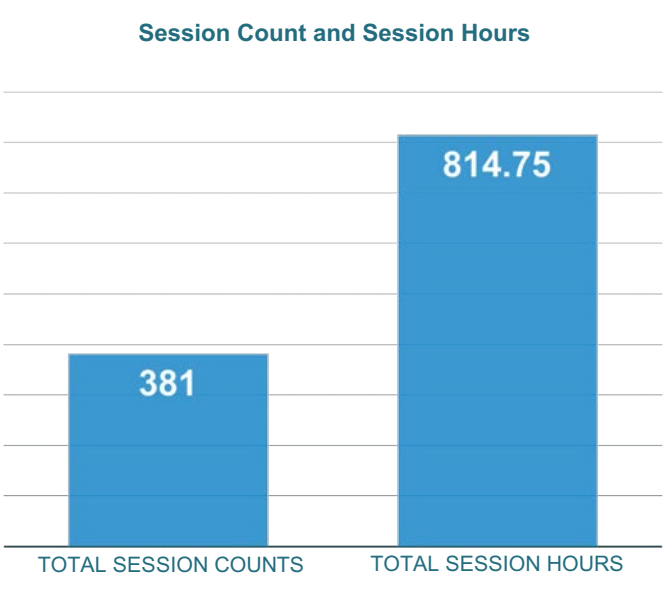
Each "type" of session has a different structure and purpose:

- 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.







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	ICANN57 Opening Ceremony	1,080
2	Public Forum 1	562
3	Public Forum 2	513
4	High Interest Topics session: Mitigation of Abuse in gTLDs*	338*
5	Update on WHOIS-Related Initiatives*	261*
6	GAC meeting with the ICANN Board	247
7	New gTLDs - Issues for Subsequent Rounds	234
8	Joint Meeting ICANN Board And Contracted Party House	217
9	GAC meeting with the GNSO	216
10	ICANN Bylaws changes and role of the GAC (session 2)	211
11	RDS/WHOIS and Domain Abuse (via PSWG)	201
12	DNS and Content Regulation NCUC Group*	197*
13	Joint At-Large APRALO Showcase and Civil Society Networking Event	196
14	GAC session on the TMCH Review	195
15	Digital Indian Presentation from the Indian Government to the GAC	195
16	Exploring the Public Interest Within ICANN's Remit*	190*
17	Annual General Meeting	180
18	ICANN Bylaws changes and role of the GAC	174
19	GAC update on IANA Transition	170
20	GAC discussion on IGO Protections and RC/RC	168
21	High Interest Topic session: Underserved Regions in ICANN*	166*
22	GAC Opening Plenary	164
23	GAC Accountability Workstream 2	159
24	Board/GAC Recommendation Implementation Working Group	156
25	GAC meeting on Country Names and Country Codes	156
26	GAC Meeting with the ALAC	155
27	Newcomers Day	149
28	ICANN Bylaws changes and role of the GAC	141
29	How it Works: Root Server Operations	140
30	ICANN Bylaw changes and role of the GAC (session 2)	139
31	GAC Operating Principles (session 2)	138
32	GAC Meeting with the CCT Review Team	137
33	Q&A with ICANN General Counsel on the legal advice that ICANN receives & how that supports the ICANN mission*	132*
34	Joint Meeting: ICANN Board and GNSO	131
35	GAC website presentation to the GAC	130
36	Wrap Up and Next Steps	128
37	Tech Day (Part 1)	126
38	How It Works: Introduction to Registry Operations Workshop (ROW) Topics	125
39	ICANN Bylaw changes and the role of the GAC	121
40	GNSO Joint Meeting: Registrar & Registry Stakeholder Groups	121
41	Joint Meeting-ICANN Board & Non-Commercial Stakeholders Group	121
42	Joint Meeting: ICANN Board and AT-LARGE	121
43	GAC Working Group Recommendations - for discussion and decision	120
44	How to do outreach within each SO/AC*	119*
45	GAC election results	118
46	Joint Meeting: ICANN Board & Commercial Stakeholders Group	117
47	GAC Operating Principles (session 1)	117
48	GAC preparation for meeting with the Board	117
49	ACIG GAC Secretariat	116
50	How It Works: Internet Networking	114

* High Interest Topic Sessions

ICANN57 By The Numbers

Mobile App Statistics

ICANN|57 HYDERABAD | ANNUAL GENERAL

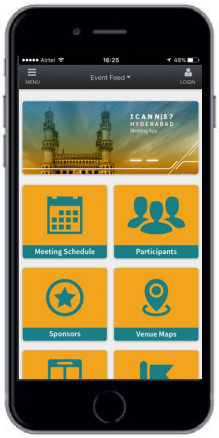
3-9 November 2016

Mobile App Statistics

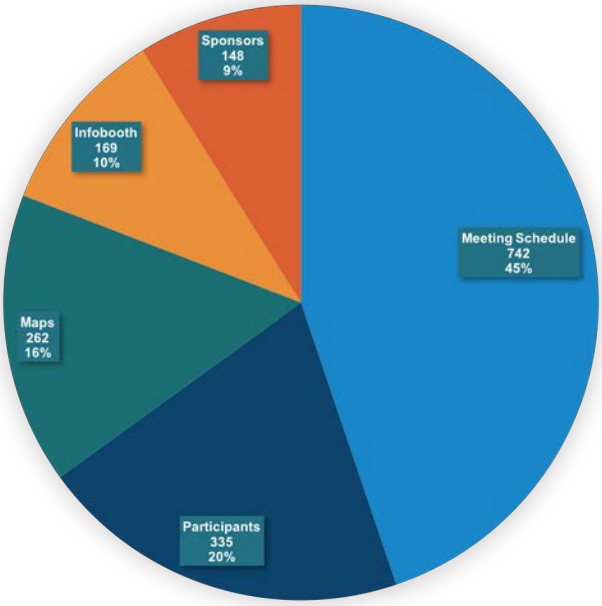
Mobile App | meetingapp.icann.org

The charts on this page show the ICANN meeting mobile app usage. We provided the first mobile app in a beta state for ICANN54 in Dublin, Ireland. The ICANN57 mobile app was the fourth iteration, and was available in the various app stores.

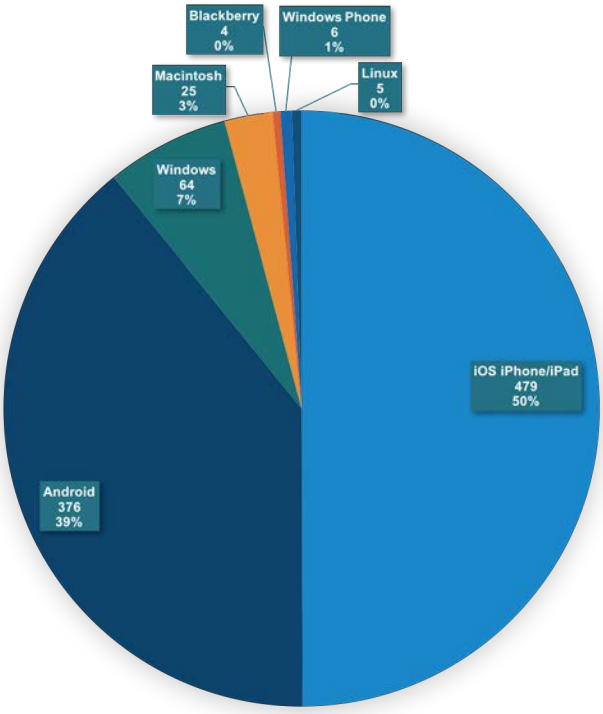
ICANN will continue to enhance the participants' mobile app experience.



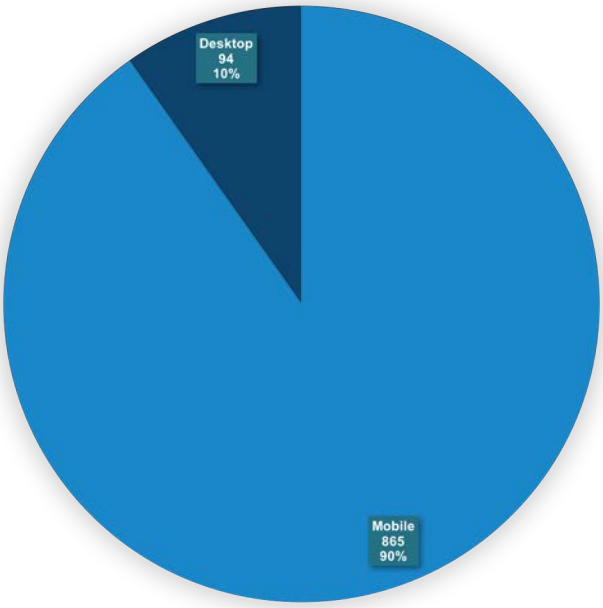
Top Viewed Modules



Mobile App Usage by Device

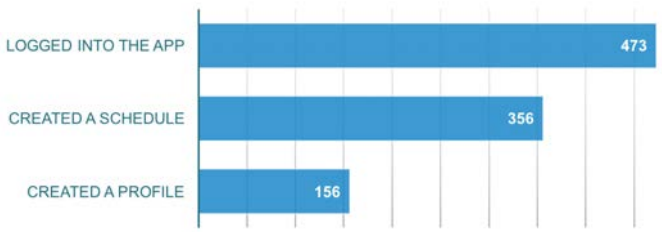


Mobile vs. Desktop Usage

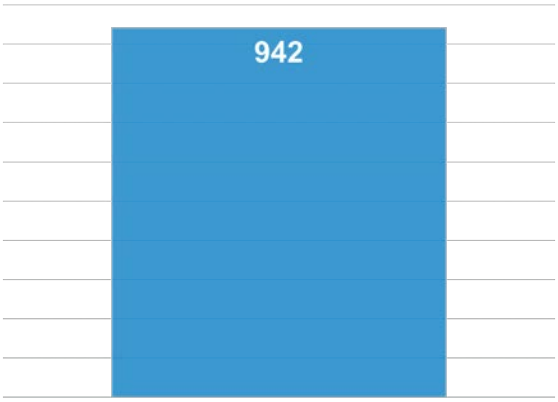


Mobile App Statistics

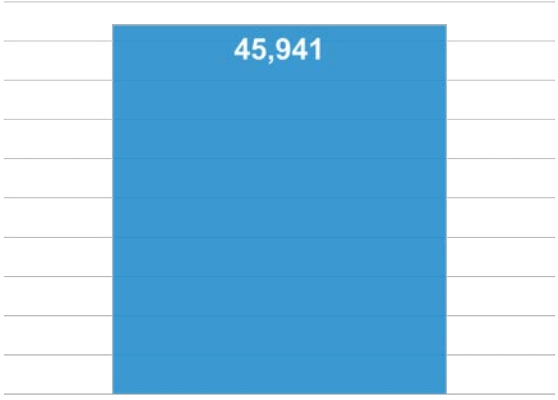
Mobile App Attendee Interaction



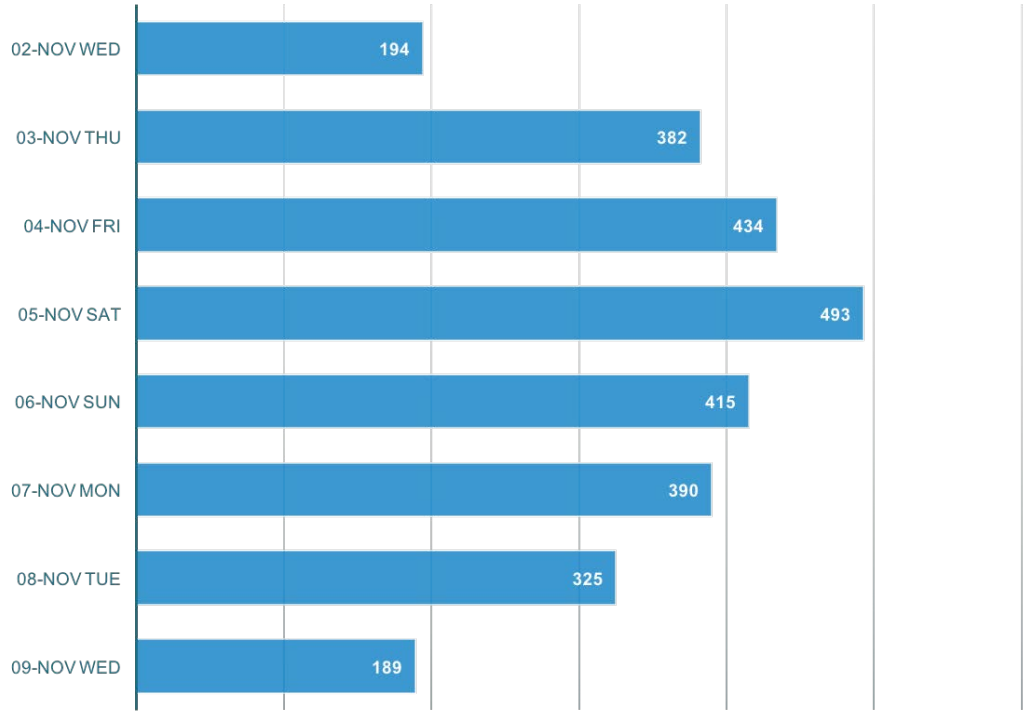
Total Unique Visitors



Total Pageviews



Unique Visitors by Day



ICANN57 By The Numbers

Schedule Website Statistics

ICANN|57 HYDERABAD | ANNUAL GENERAL

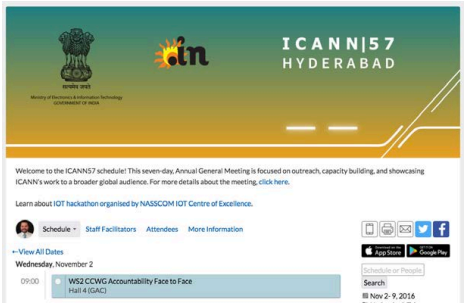
3-9 November 2016

Schedule Website Statistics

Schedule Website | schedule.icann.org

For ICANN57, we used the SCHED platform for the second time, improving on the automated posting of the ICANN meeting schedule. The effort involved integration with ICANN's internal Event Management Software system database, eliminating hundreds of hours of manual data transfer.

ICANN will continue to enhance the user experience with the schedule website.



SCHED

ems Event Management Systems

Schedule Website Quick Stats

Attendees Logged In

742

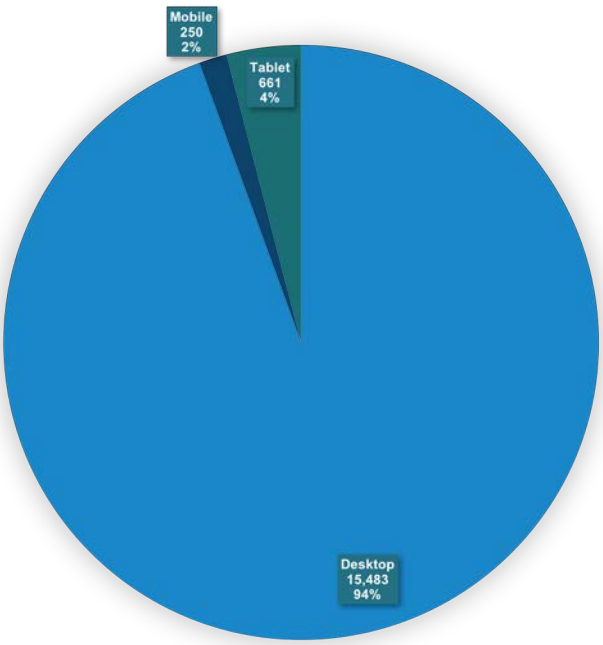
Schedules Created

575

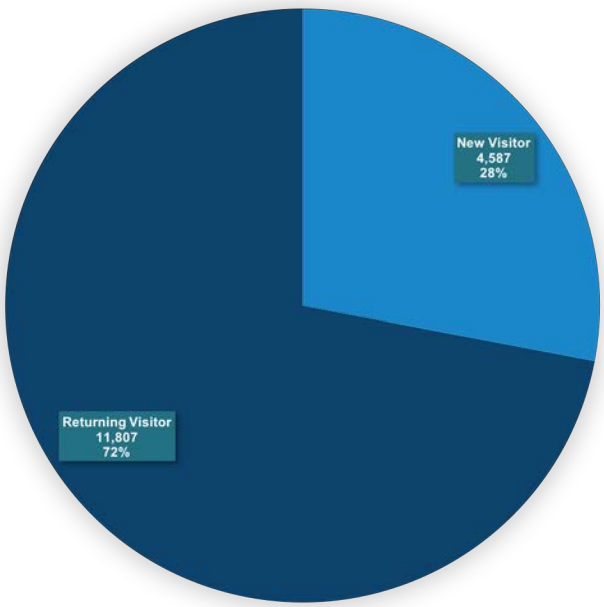
Average Sessions per Schedule

23.11

Schedule Website Usage By Device Category



Schedule Website Traffic Type



Schedule Website Statistics

Schedule Website | 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 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 completed this process, the Language Services Department processes and posts the associated transcripts.

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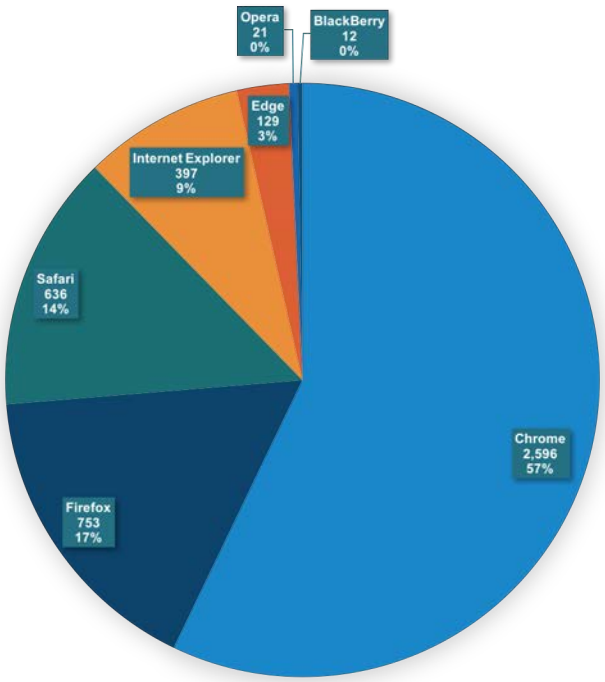
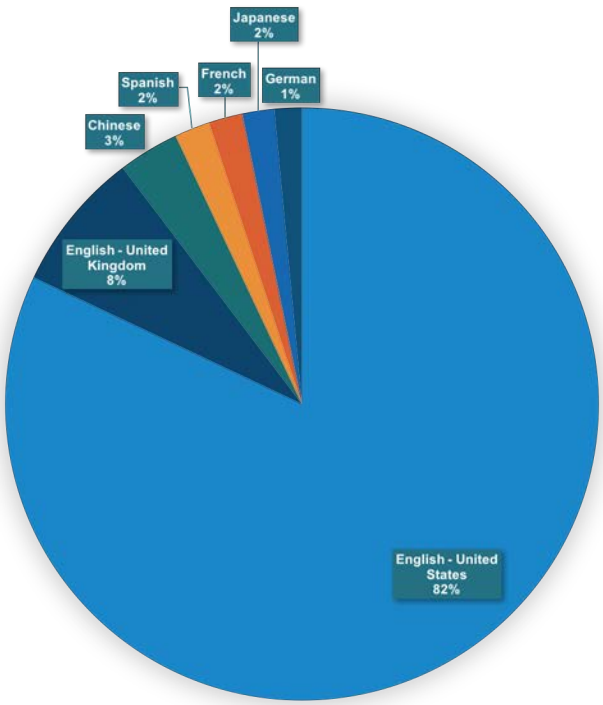
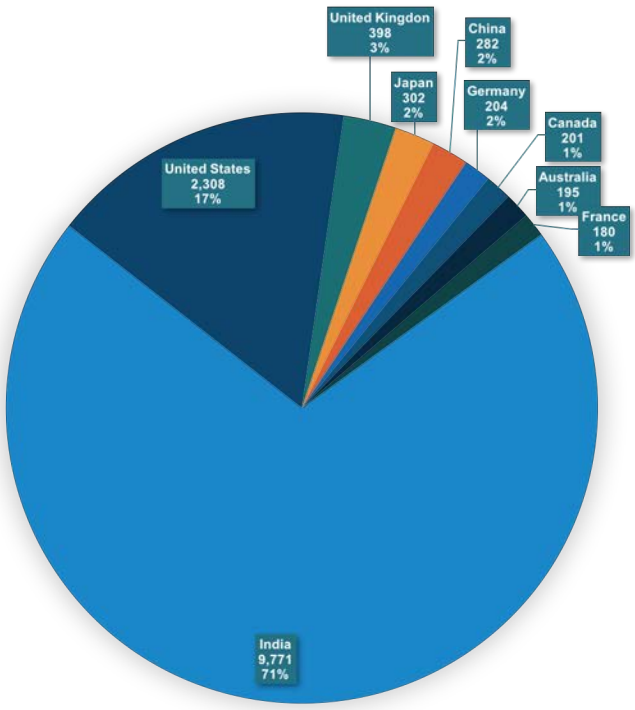
Schedule Website Usage by Browser



Schedule Website Users by Language



Schedule Website Top Usage by Country



Schedule Website Statistics

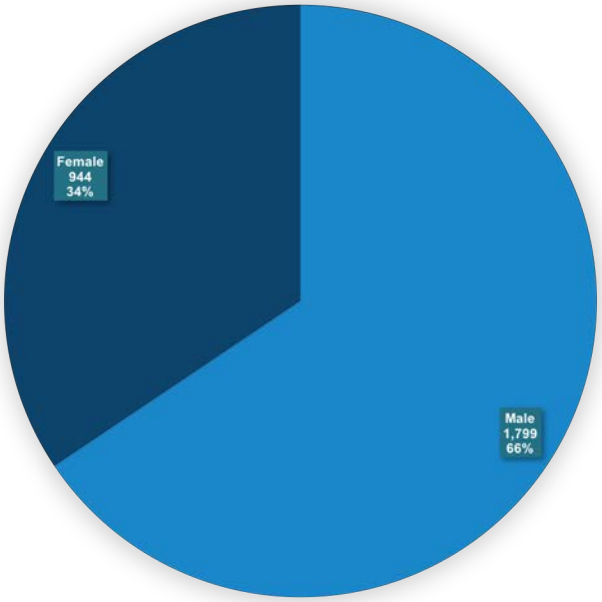
Schedule Website | schedule.icann.org

The use of Google Analytics permits ICANN to analyze data from schedule.icann.org in one place, allowing for a deeper understanding of the ICANN communities' experience with the schedule website.

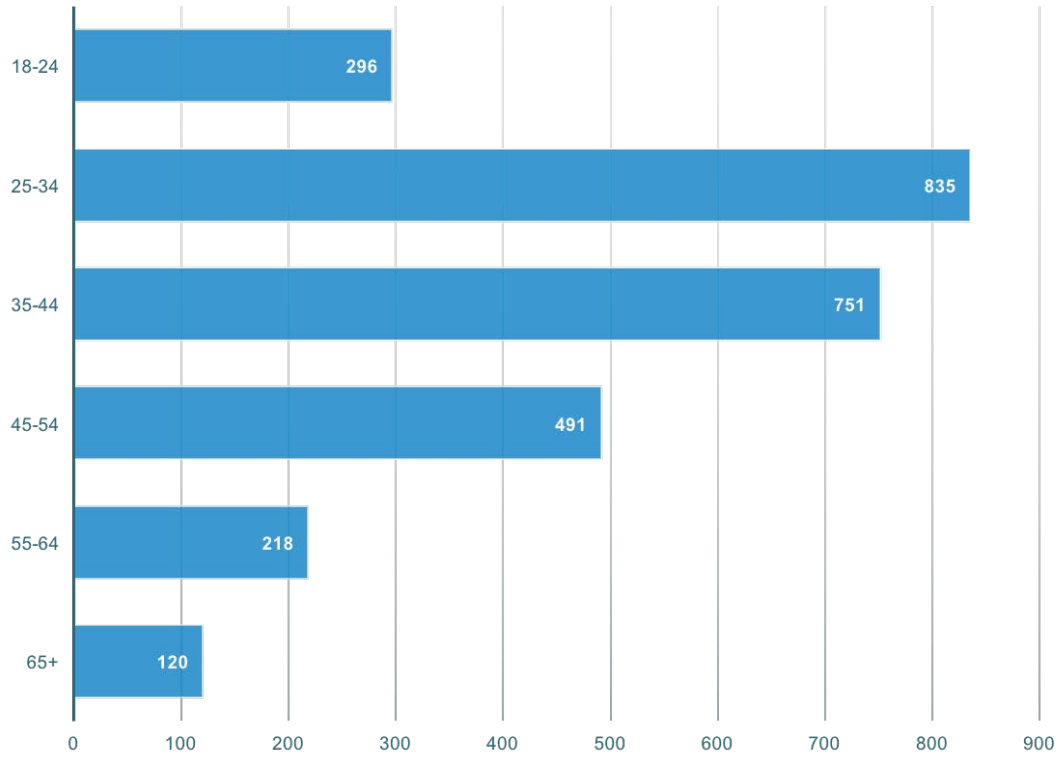
Google Analytics collects information about demographics and interests available in browser cookies. It uses Android or iOS Advertising IDs to generate identifiers that include information about demographics and gender. This data is summarized with data sampling and infers the characteristics of an individual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

Google Analytics

Schedule Website Demographics by Gender

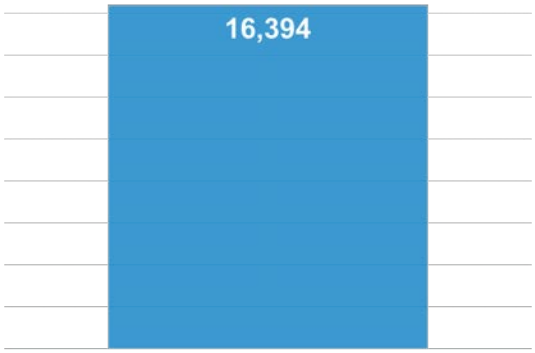


Schedule Website Demographics by Age

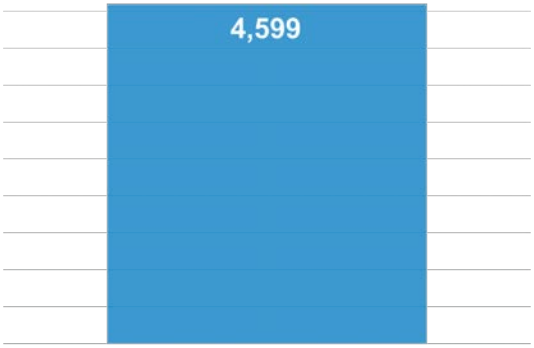


Schedule Website Statistics

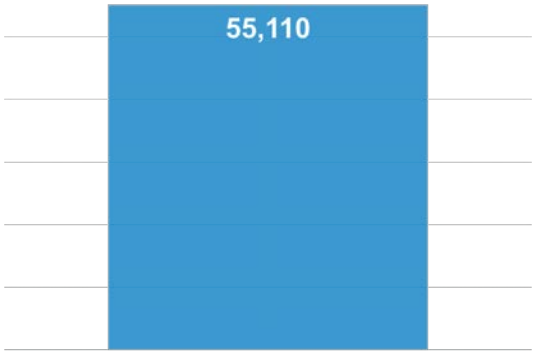
Schedule Website Total Sessions



Schedule Website Total Users

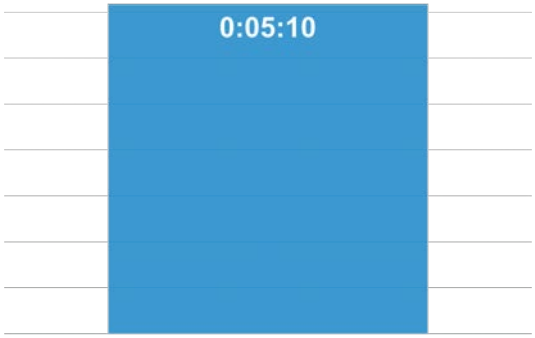


Schedule Website Total Pageviews

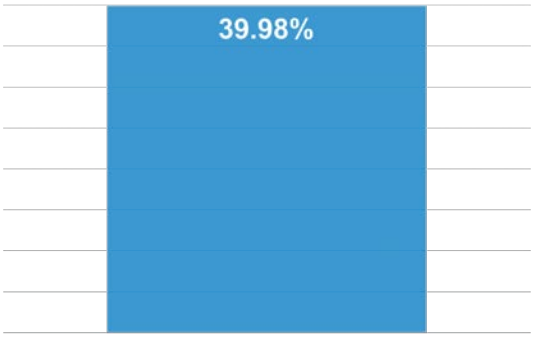


Schedule Website Average Pages per Session

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



Schedule Website Average Bounce Rate



ICANN57 By The Numbers

Remote Participation Statistics

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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:

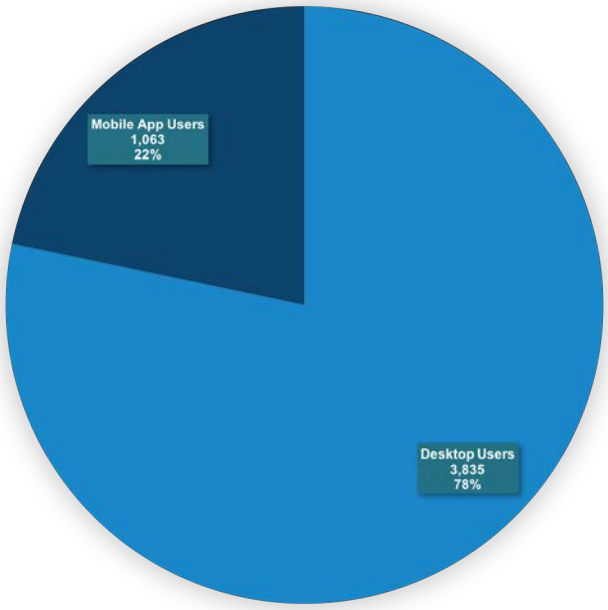
Adobe Connect – Visual platform with presentations, participant chat, video of session room and other tools. Recordings of meetings are posted after the session concludes. A mobile app version is also available on app stores.

Video Streaming – Video and audio streamed live to Livestream.com, primarily for High Interest Topic sessions.

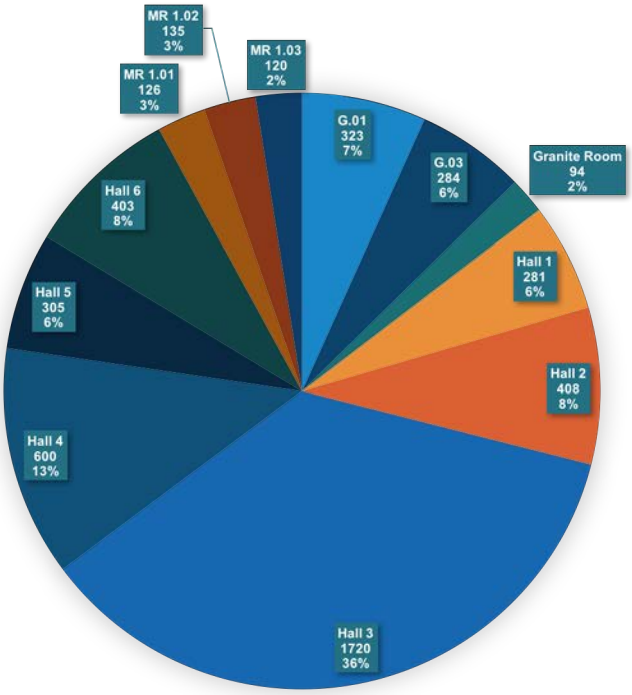
Audio Streaming – MP3 audio links for all languages available for a session, giving participants a choice of language. There are high quality streams for participants with broadband connections, and a low bandwidth stream for those with limited connectivity.

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

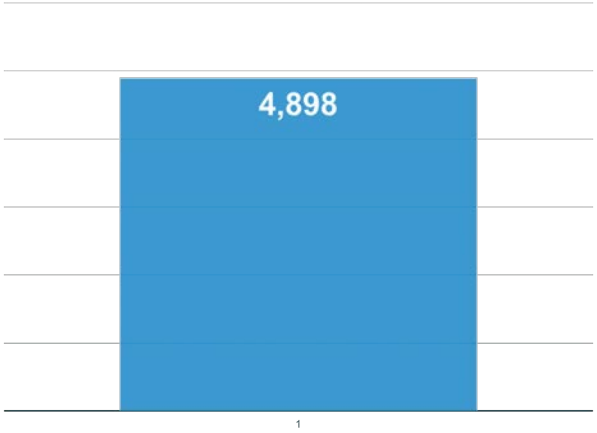
Adobe Connect
Total Unique Participants



Adobe Connect
Unique Users by Session Room



Adobe Connect
Total Unique Participants



This count includes participants connected on-site to Adobe Connect. For ICANN58, we hope to improve the breakdown of this data to include on-site participants vs. remote participants.

Remote Participation

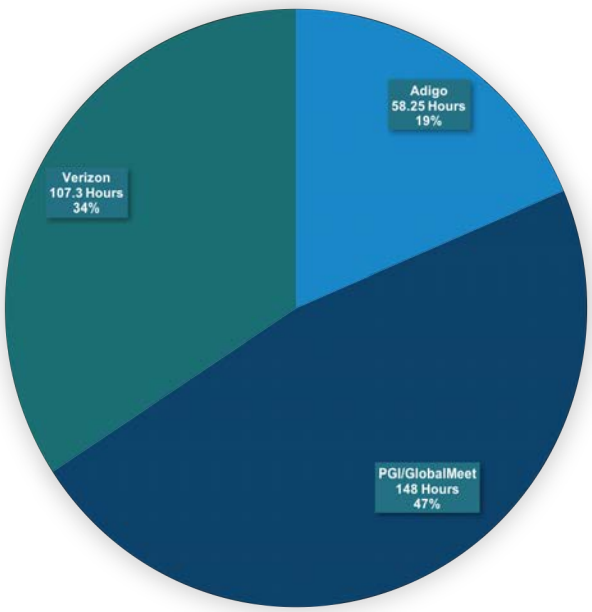
Total Telephone Calls

586

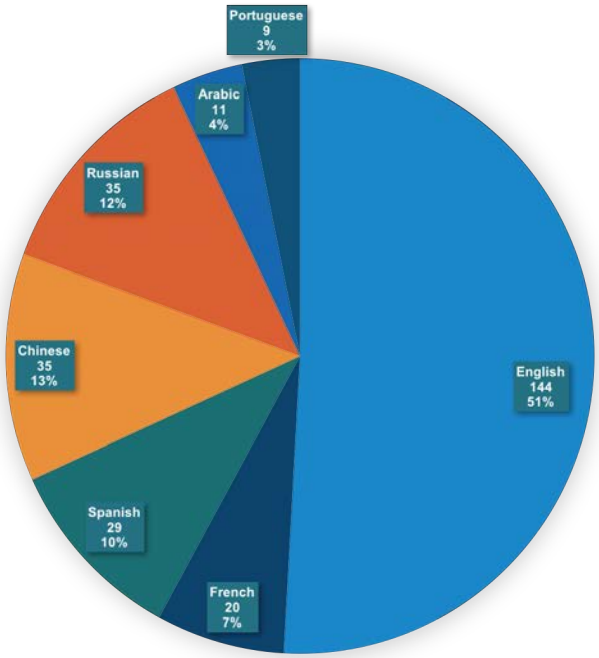
Total Telephone Hours

239

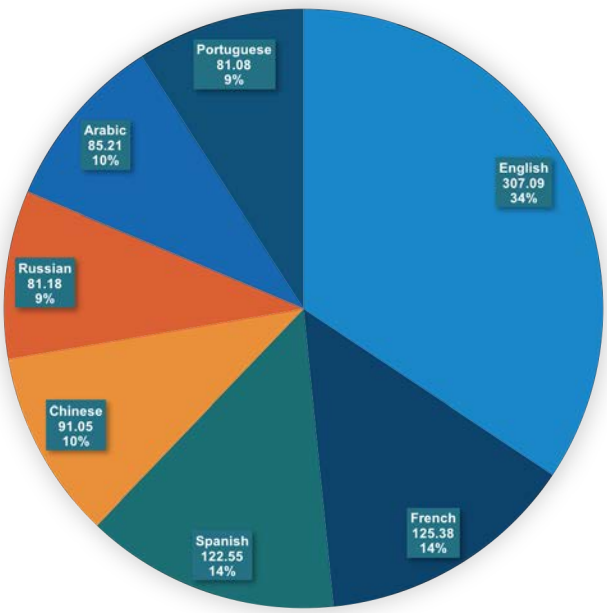
Total Telephone Calls & Hours



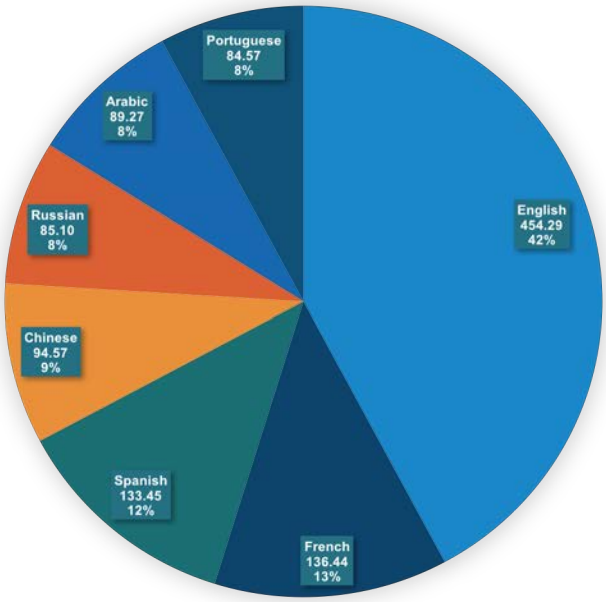
Total Streaming Audio Listeners by Language



Total Streaming Audio Hours [HH.MM] by Language



Total Recorded Audio Hours [HH.MM] by Language



Remote Participation

Remote Participation – Top 50 Sessions

This list ranks the top 50 sessions based on the peak count of listeners to the web audio stream. All open sessions provide web audio streams. Blanks denotes that a specific language was not available for a session. "–" denotes that a specific language had no listeners during the noted session. These numbers reflect the combined number of listeners for both the high-bandwidth and low-bandwidth audio stream. Denotes peak number of Wi-Fi devices connected during the session.

en = English es = Spanish ru = Russian ar = Arabic
fr = French zh = Chinese pt = Portuguese

Session Title	en	fr	es	zh	ru	pt	ar	
GAC Human Rights and International Law Working Group Meeting 2016-11-03 06:03:28 UTC - Hall 4	2	–	–	–	25	–	–	217
At-Large Leadership Working Session Part 2 2016-11-03 05:28:03 UTC - Hall 1	10	–	1					103
ICANN57 Opening Ceremony 2016-11-05 03:03:29 UTC - Hall 3	7	1	2	2	–	–	–	1142
Internet Governance Public Session 2016-11-07 13:05:54 UTC - Hall 3	7	–	2	1	–	5	–	254
GNSO - Cross-Constituency meeting between the IPC Registrar Stakeholder Group (RrSG) 2016-11-03 06:29:39 UTC - Hall 2	6			2				184
Regional Strategy Outlook (Eastern Europe and Central Asia) 2016-11-08 08:46:22 UTC - Hall 3	–	–	–	–	5	–	–	137
Newcomers Day 2016-11-04 05:37:58 UTC - Hall 2	1	4	2					182
Public Forum 1 2016-11-05 11:18:22 UTC - Hall 3	4	–	2	–	–	–	–	854
Joint Meeting: ICANN Board and GNSO 2016-11-07 07:02:24 UTC - Hall 6	4							271
Annual General Meeting 2016-11-08 02:42:22 UTC - Hall 3	4	–	1	3	–	1	1	461
Public Forum 2 2016-11-08 04:26:23 UTC - Hall 3	4	–	4	2	–	–	–	920
ws2 CCWG Accountability Face to Face Morning 2016-11-02 03:16:55 UTC - Hall 4	3							156
WS2 CCWG Accountability Face to Face Afternoon 2016-11-02 07:26:39 UTC - Hall 4	3							139
GNSO – Next-Generation RDS PDP WG Face to Face Meeting 2016-11-03 03:19:24 UTC - Hall 6	3							131
ICANN Bylaws changes and role of the GAC (session 2) 2016-11-04 10:35:48 UTC - Hall 4	3	–	–	–	–	–	–	285
High Interest Topics session: Mitigation of Abuse in gTLDs 2016-11-05 07:26:43 UTC - Hall 3	3	1	1	3	1	–	–	531
GNSO: Joint RYSG RrSG 2016-11-06 03:26:54 UTC - Hall 2	3			3				253
gTLD Marketplace Health Index Metrics 2016-11-07 03:31:43 UTC - Hall 2	3							124
GAC election results 2016-11-07 07:56:45 UTC - Hall 4	3	–	–	–	–	–	–	438
At-Large Leadership Working Session Part 1 2016-11-03 02:52:57 UTC - Hall 1	2	1	2					83
GAC Under-Served Regions WG Meeting 2016-11-03 04:08:38 UTC - Hall 4	2	1	1	–	–	–	1	190
GAC WG to examine GAC's participation in the NomCom meeting 2016-11-03 05:09:06 UTC - Hall 4	2	1	1	1	1	1	1	181
At-Large Leadership Working Session Part 3 2016-11-03 08:23:54 UTC - Hall 1	–	–	2					123
At-Large Leadership Working Session Part 4 2016-11-03 09:46:14 UTC - Hall 1	2	–	1					98
At-Large Leadership Working Session Part 5&6 2016-11-04 02:50:34 UTC - Hall 1	2	1	1					97
How It Works: DNS Fundamentals 2016-11-04 03:19:13 UTC - Hall 5	2							88

Session Title	en	fr	es	zh	ru	pt	ar	
GAC Accountability Workstream 2 2016-11-04 04:28:11 UTC - Hall 4	2	–	–	–	–	–	–	359
How It Works: Internet Networking 2016-11-04 05:22:04 UTC - Hall 5	2							78
GNSO Working Session Part 4 2016-11-04 10:28:15 UTC - Hall 6	2							151
DNSSEC for Everybody: A Beginner's Guide 2016-11-04 11:14:46 UTC - Hall 2	–	2	–					195
How to do outreach within each SO/AC 2016-11-05 04:49:10 UTC - Hall 3	1	1	1	2	–	–	–	170
New gTLDs - Issues for Subsequent Rounds 2016-11-05 05:27:01 UTC - Hall 4	1	–	–	2	–	–	–	429
Update on WHOIS-Related Initiatives 2016-11-05 09:40:37 UTC - Hall 3	2	–	–	1	–	–	–	407
Cross Community Committee on Accessibility 2016-11-06 02:30:37 UTC - Hall 1	2	–	–					89
ccNSO Members Meeting - Day 1 (pt 1) 2016-11-06 02:43:17 UTC - Hall 5	2							191
Digital Indian Presentation from the Indian Government to the GAC 2016-11-06 04:08:22 UTC - Hall 4	2	2	–	–	–	–	–	323
GNSO Registrar Stakeholder Group Meeting 2016-11-06 06:42:04 UTC - Hall 2	–			2				153
GNSO - Registries Stakeholder Group Membership Meeting 2016-11-06 07:19:53 UTC - Hall 6	2							158
GAC Meeting with the ALAC 2016-11-06 08:43:46 UTC - Hall 4	2	–	1	–	–	–	–	325
DNS and Content Regulation NCUC Group 2016-11-06 11:17:25 UTC - Hall 3	2	–	–	–	1	–	1	384
Joint Meeting: ICANN Board and ccNSO 2016-11-07 02:39:43 UTC - Hall 3	2	–	1	1	–	–	2	214
Africa Strategy update 2016-11-07 07:56:48 UTC - Hall 2	1	2					1	148
GAC meeting with the ICANN Board 2016-11-07 08:22:12 UTC - Hall 4	2	1	–	–	–	–	–	539
Q&A with ICANN General Counsel on the legal advice that ICANN receives and how that supports the ICANN mission 2016-11-07 09:03:42 UTC - Hall 3	2	–	–	–	–	–	–	335
Registration Data Access Protocol Implementation 2016-11-07 11:17:06 UTC - Hall 2	2							143
GAC Communique drafting 2016-11-08 07:32:41 UTC - Hall 4	2	1	–	1	–	–	–	307
Joint Meeting: ICANN Board & Technical Experts Group (TEG) 2016-11-08 10:56:27 UTC - Hall 3	1	–	–	–	2	1	–	222
GAC WG to examine the Protection of Geographic Names in future expansion of gTLDs Meeting 2016-11-03 02:45:26 UTC - Hall 4	1	–	1	–	–	–	1	190
CCT Review Team Meeting Day 2 2016-11-03 03:23:30 UTC - MR 1.02	1							76
At-Large Review Working Party 2016-11-03 07:00:00 UTC - Hall 1	1	–	1					144
GAC Operating Principles WG Meeting 2016-11-03 08:07:45 UTC - Hall 4	–	–	–	1	–	–	–	193
GAC Opening Plenary 2016-11-04 03:22:48 UTC - Hall 4	1	–	–	–	–	–	–	314

ICANN57 By The Numbers

General Information

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General Information

Equipment Deployed for ICANN57

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Conference Microphones

412

Wireless Access Points

103

Laptops

75

Mac Minis

65

Telephones

56

Switches

48

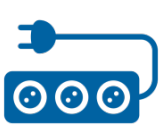
Printers

28

Registration iPads

12

International Power Strips



650

Routers

4

Broadcast Cameras

34

General Information

Equipment Deployed for ICANN57

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Pages Printed

35,000

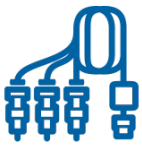
Communication Radios

75

Gaffers Tape

3.75 Miles | 6.03 Km

Video Cable



3.90 Miles | 6.27 Km

Security Locks

396

Audio Cable

1.82 Miles | 2.92 Km

Network Fiber

0.66 Miles | 1.07 Km

Network Copper Cable

5.61 Miles | 9.02 Km

Cargo Shipping Cases

98

Coffee Consumed

1,000 Gallons | 3,783 Liters

Container Ship Cargo Fire Incident

Fire on Cargo Ship Affects IT Equipment Bound for ICANN57 Hyderabad

ICANN Meetings are large-scale technical events. The visible portions like microphones, monitors and cameras are the tip of the iceberg. Beneath the surface, there are miles of cable and hundreds of pieces of equipment providing connectivity, and enabling engagement and the seamless presentation of ICANN sessions.

Unfortunately, some of the equipment was impacted by a fire, while en route from Finland to India.

What Happened?

On 1 September 2016, an explosion caused a fire on a cargo ship docked in Hamburg, Germany. Our Public Meeting technical equipment was on board. We had two containers – a 40-foot and a 20-foot container.

It took 150 firefighters four days to extinguish the fire. The ship's crew initially tried to extinguish the fire and sustained slight injuries. No one else was hurt. Reports indicated that welding in the cargo hold caused the incident. The ship had departed Helsinki, Finland, after ICANN56, and the equipment was bound for Hyderabad, India.

What Did This Mean for ICANN57?

The good news was that the larger container sustained no damage. It was off-loaded to another ship soon after the incident was reported and continued the journey to India, arriving in early October.

The bad news was that due to its proximity to the fire, the smaller container was detained by inspectors in Hamburg. This container held printers, remote participation computers, camera kits, digital signage equipment, and all network hardware and wireless equipment, including over 5 miles (8 km) of cabling.

Everyone involved worked hard to secure a quick resolution and release of our cargo. However, we were informed that due to maritime law, inspections by German authorities and the shipping company's insurance adjusters could take several months to several years before the container would be released. This meant that even if the equipment was undamaged, this container would not arrive in time for ICANN57.

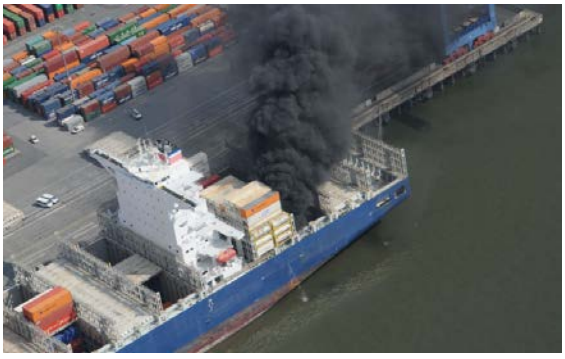
How Did ICANN Respond?

We immediately put emergency contingency plans in place. Because we had a detailed inventory of the 27 cases in the container, we began replacing the equipment. By 26 September, we had purchased all replacement equipment that we deemed to be critical for ICANN57.

In this worst-case scenario, all of our critical equipment was delivered, configured and imaged in Los Angeles, then air freighted in 18 shipping cases to Hyderabad, India.

What Did This Mean for ICANN57 Participants?

Our goal was to ensure a successful ICANN57 meeting in India with minimal disruption in service. The meeting was a resounding success, and there were no disruptions or outages in services caused by all-new equipment. The Meetings Technical Services team put in hundreds of hours of work to ensure the meeting ran smoothly. In the end, the smaller container was released at the last minute and was air-freighted to Hyderabad, India, to join the rest of the cargo.



Container ship CCNI Arauco on fire, 1 September 2016, Port of Hamburg, Germany

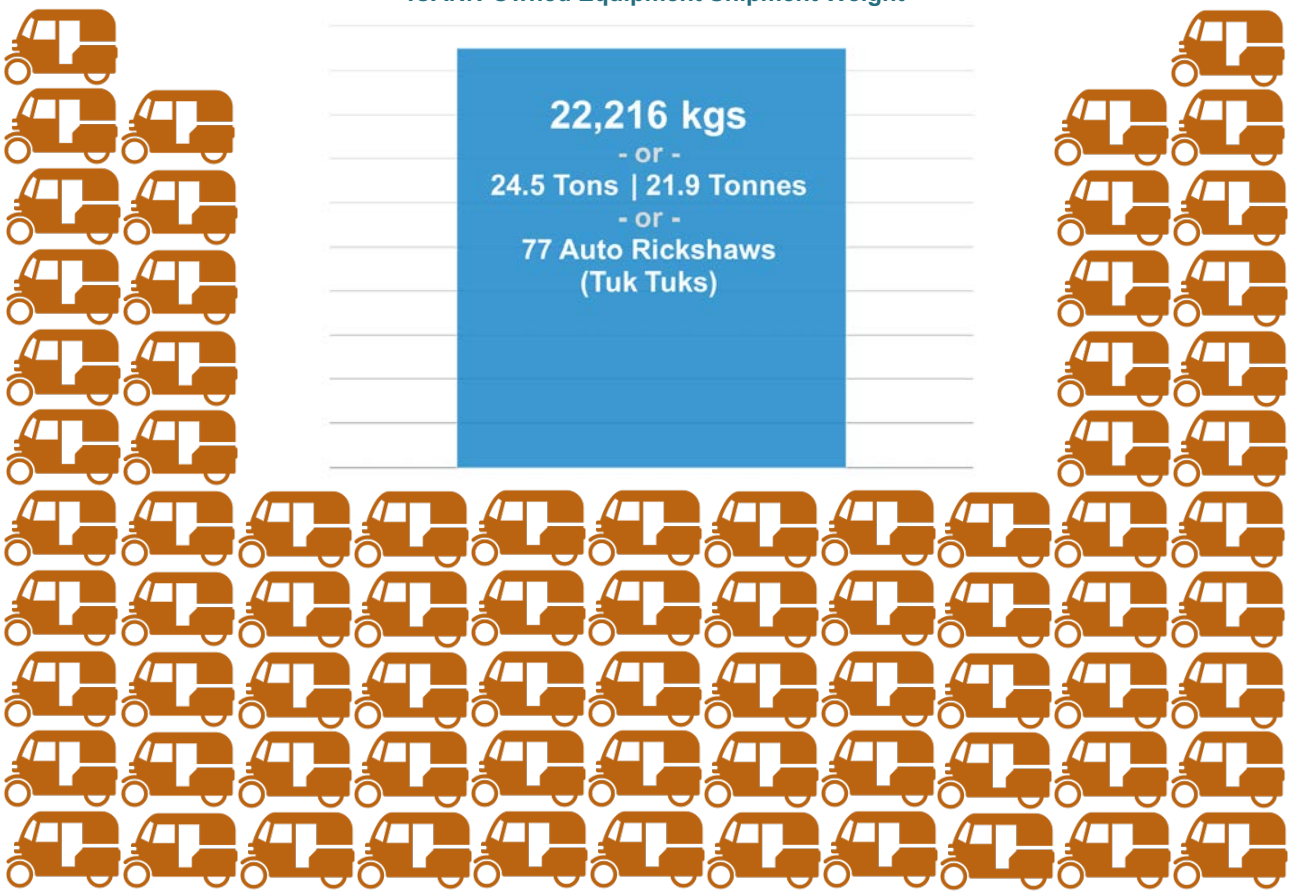
General Information

ICANN Equipment Shipped to ICANN57

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 economy.

The following depicts the equipment shipped to ICANN57.

ICANN-Owned Equipment Shipment Weight



ICANN-Owned Equipment Cases Shipped

ICANN57 By The Numbers

Network Operations Center

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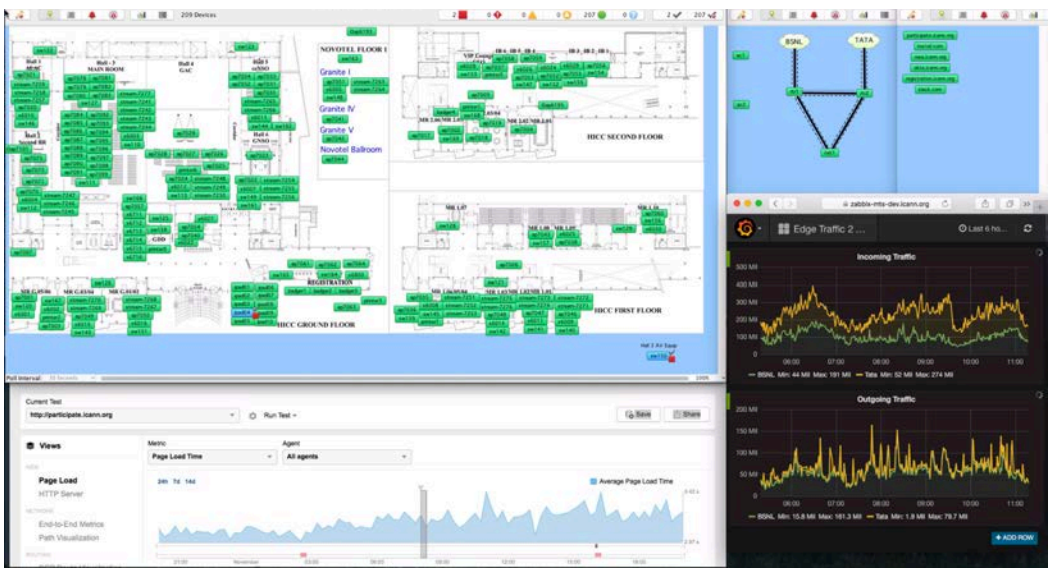
Network Operations Center

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 ICANN57 of the 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.



Network Operations Center

Meetings Technical Services Team

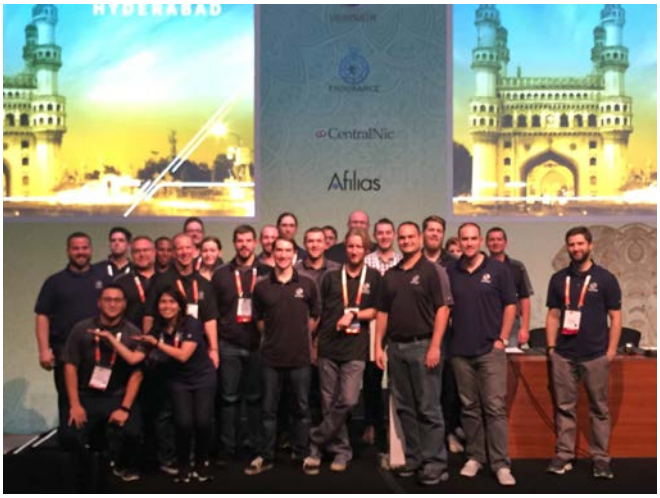
People are key to the success of ICANN meetings. Several teams of people help manage every aspect of a meeting. Our Meetings Technical Services (MTS) team includes: meeting managers, audio visual technicians, interpreters, scribes (closed captionists), remote participation managers, IT technicians and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

MTS Team Messages Exchanged

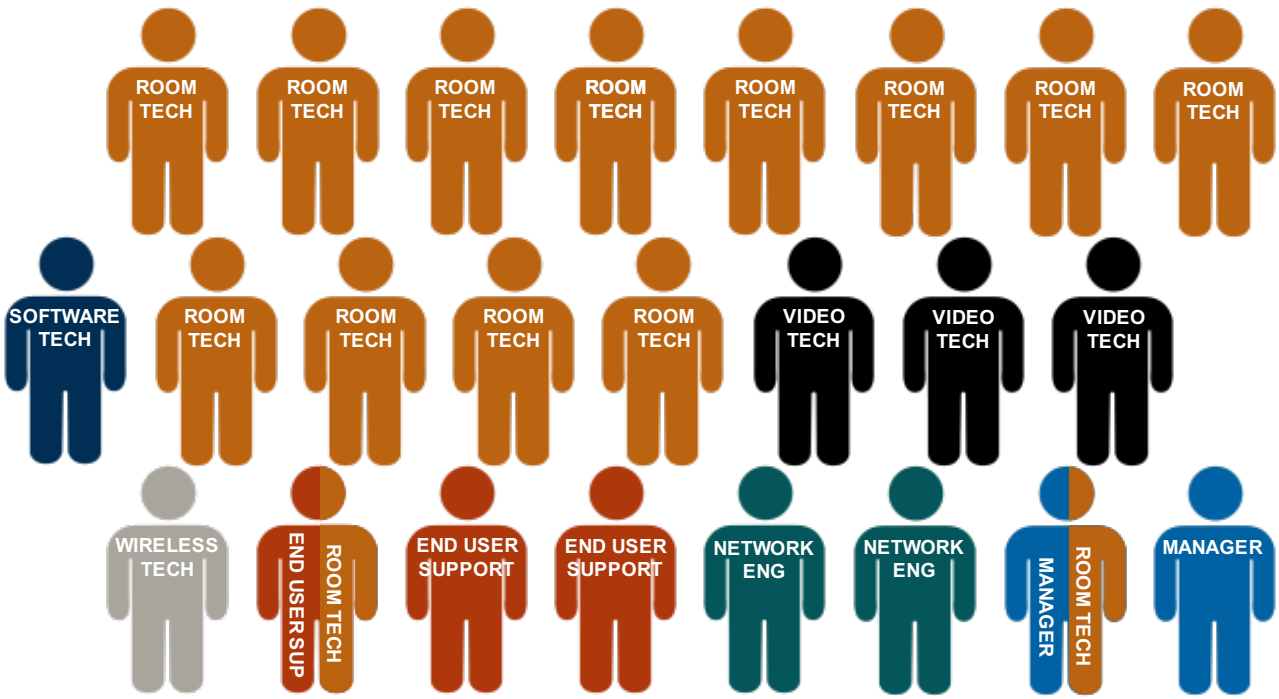
slack

14,059

Meetings Technical Services Team | ICANN57



Breakdown of MTS Team by Role



24 Meetings Technical Services Crew

Network Operations Center

Shipment of Equipment

Over 98 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.

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 650 six-plug power strips with over 6 km of power cable. This provides over 3,900 power outlets for participants during meetings.

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.

We introduced ten new automated camera kits for each session room. The kits operate in conjunction with the microphone system. All session rooms will now have live video for open sessions.

Live video has been a major investment - ICANN is striving to improve the experience and interaction of remote participants.

ICANN57 By The Numbers

Network Statistics and Client Profiles

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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 provide the inventory of IT equipment that ICANN brings to each meeting to meet the unique challenges of each venue.

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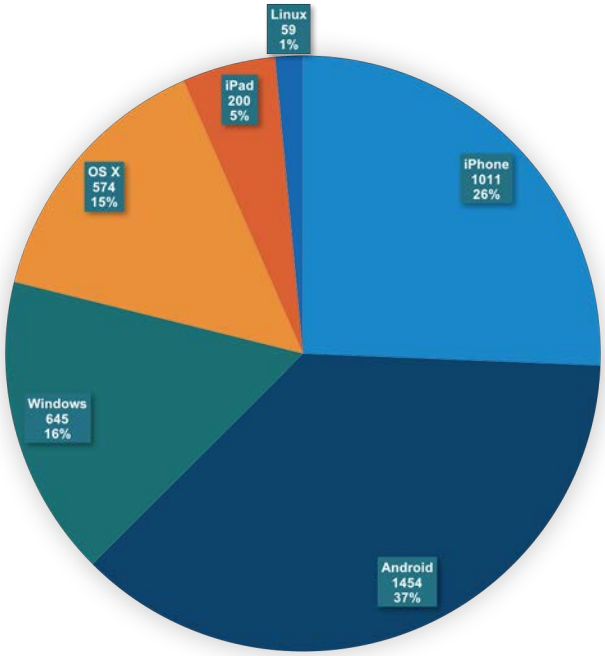
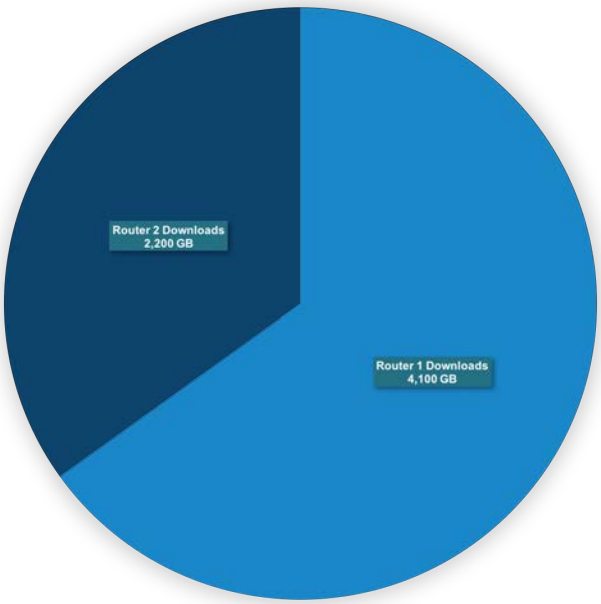
3-9 November 2016

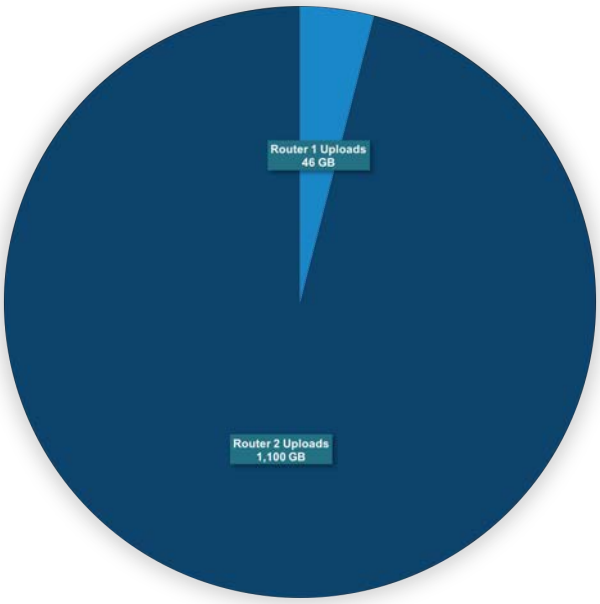
Clients by Device Type



Total Download Traffic



Total Upload Traffic

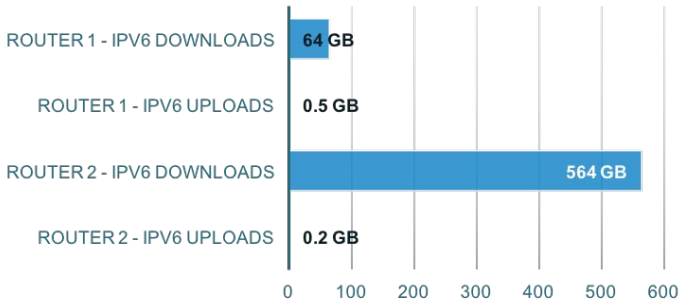


Network Statistics

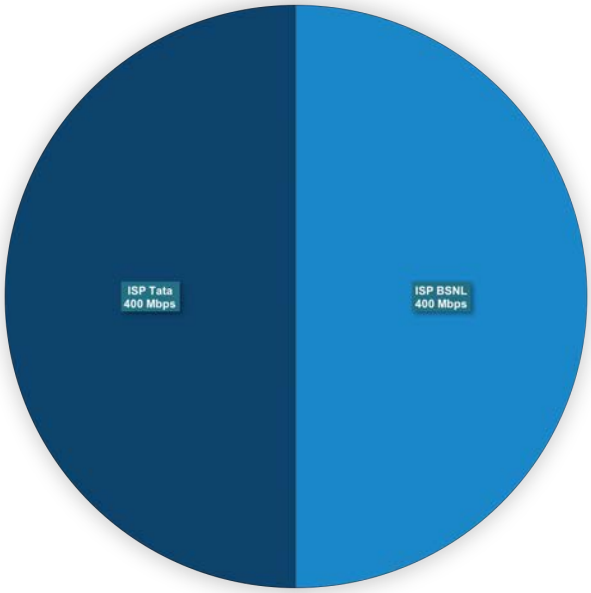
Bandwidth Consumption and Allocation

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

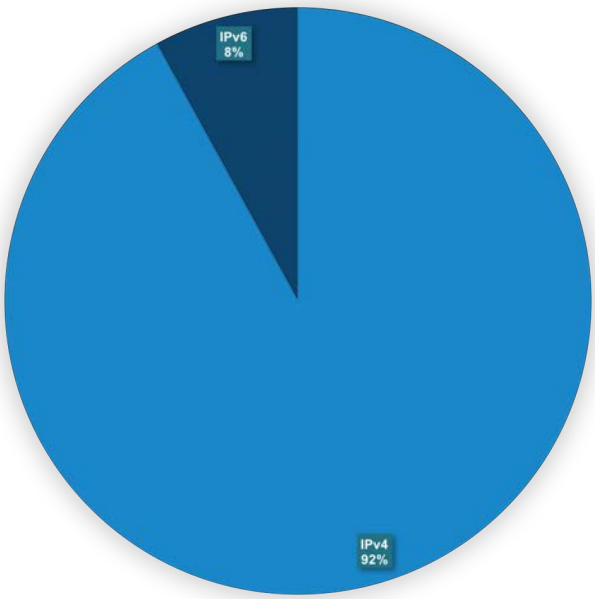
IPv6 Data Transferred In/Out



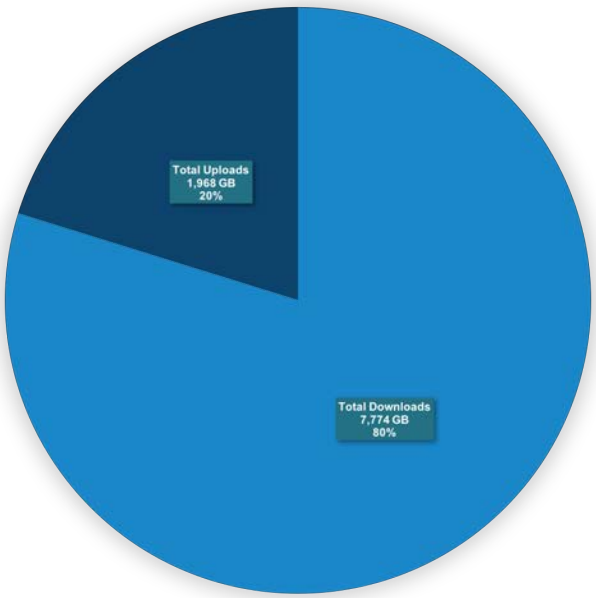
Internet Service Providers 800 Mbps Service



IPv4 & IPv6 Traffic Allocation



Total Data Consumption



Network Statistics

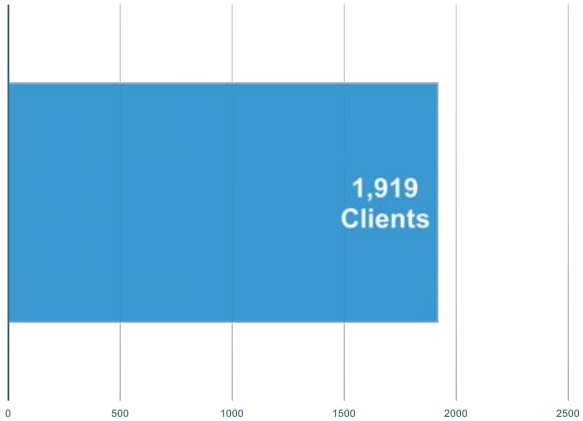
Wi-Fi Client Associations and Bandwidth

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.

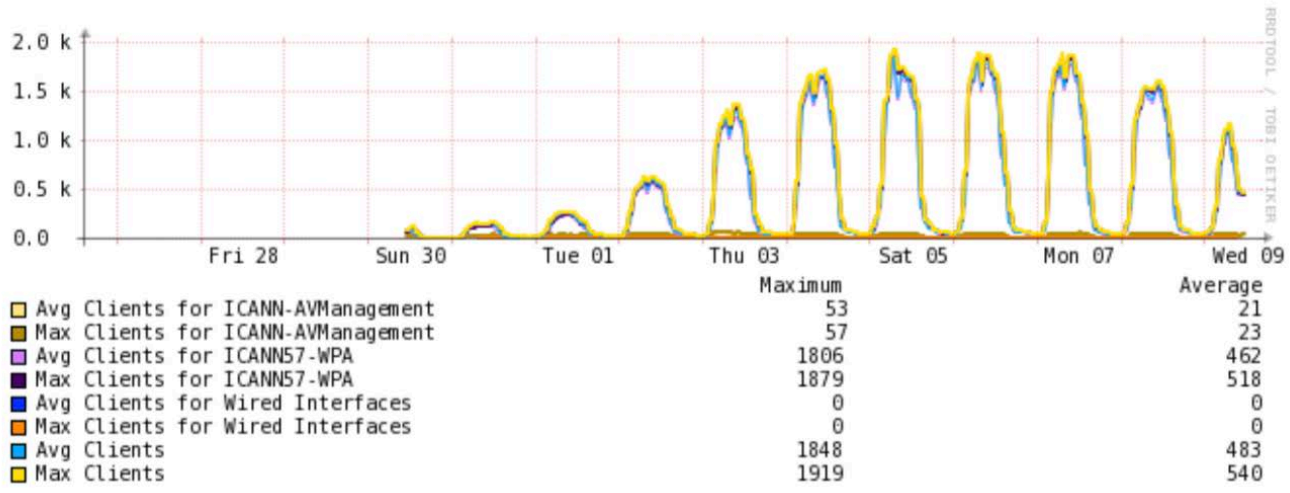
Great care and time go into the deployment plan for wireless access points. The team works with our wireless vendor Aruba to ensure the best possible configuration of device profiles.

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

Peak Wi-Fi Associations
5-Nov-2016

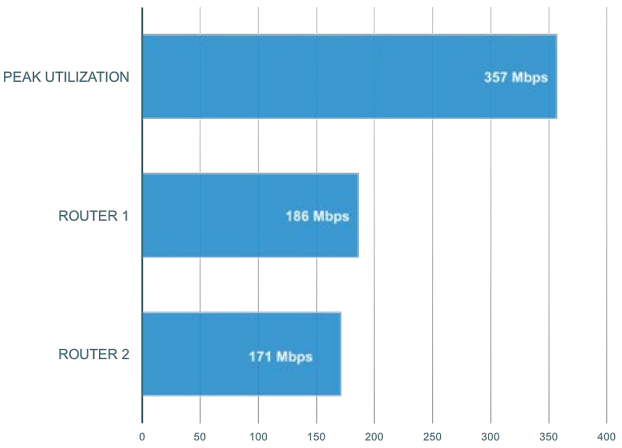


Wi-Fi Client Associations | by Day

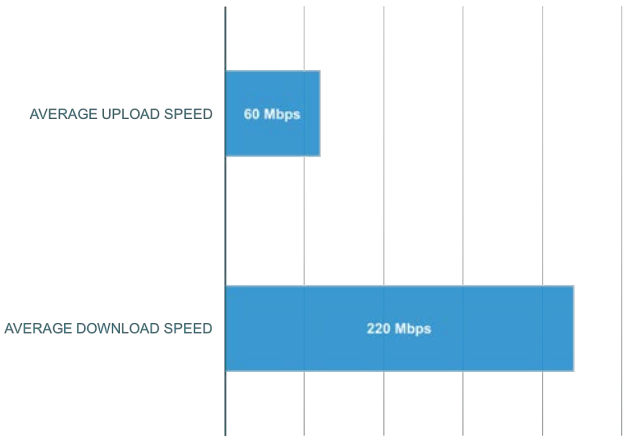


	Maximum	Average
Avg Clients for ICANN-AVManagement	53	21
Max Clients for ICANN-AVManagement	57	23
Avg Clients for ICANN57-WPA	1806	462
Max Clients for ICANN57-WPA	1879	518
Avg Clients for Wired Interfaces	0	0
Max Clients for Wired Interfaces	0	0
Avg Clients	1848	483
Max Clients	1919	540

Peak Bandwidth Utilization
6-Nov-2016



Bandwidth Speed
[During Business Hours per 30 min.]



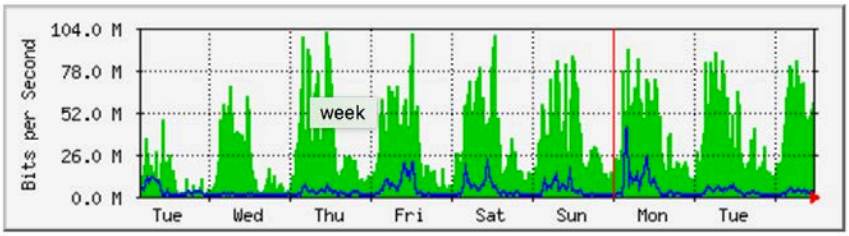
Network Statistics

Average Bandwidth Utilization

ICANN runs our core network from two redundant routers. These graphs show the weekly 30-minute average bandwidth consumption.

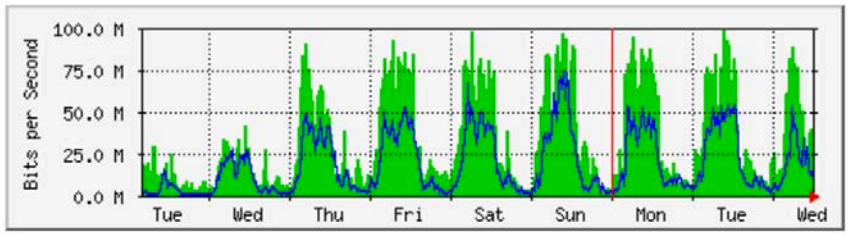
ICANN MTS Core Network

Router 1



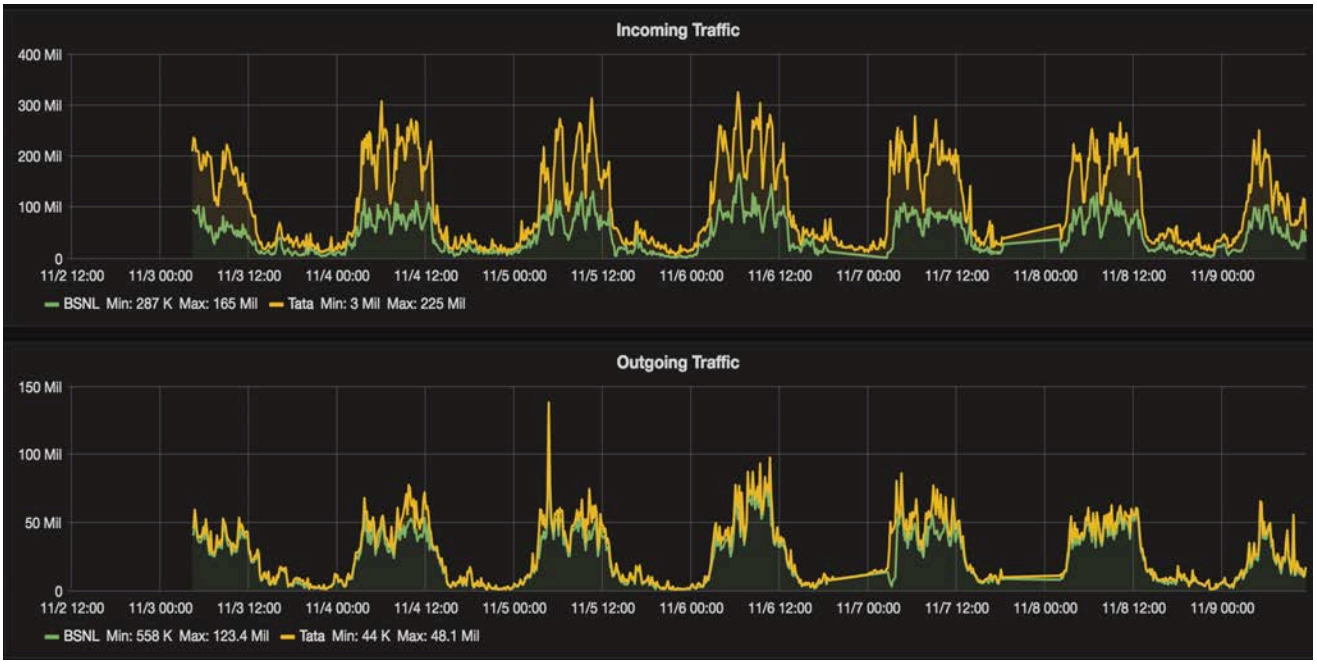
	Max	Average	Current
In	101.9 Mb/s (10.2%)	33.1 Mb/s (3.3%)	57.3 Mb/s (5.7%)
Out	42.0 Mb/s (4.2%)	3296.4 kb/s (0.3%)	673.6 kb/s (0.1%)

Router 2



	Max	Average	Current
In	98.4 Mb/s (9.8%)	32.8 Mb/s (3.3%)	23.8 Mb/s (2.4%)
Out	73.6 Mb/s (7.4%)	18.3 Mb/s (1.8%)	15.4 Mb/s (1.5%)

Internet Service Providers Statistics – Average Bandwidth Utilization



ICANN57 By The Numbers

Appendix

ICANN|57 HYDERABAD | ANNUAL GENERAL

3-9 November 2016

Attendee Profile Data

Badge Type	
Participant	2,573
Media	122
Sponsor	164
Support Staff	143
ICANN Staff	155
ICANN Board	25

Stakeholder Classification	
Academia	282
Civil Society / Non-Governmental Organization	287
End User	219
Government / Inter-Governmental Organization	686
Private Sector - Domain Name Industry	676
Private Sector - General Business / Legal	375
Technical Community	526

Groups of Interest	
ALAC - At-Large Advisory Committee	120
ASO - Address Supporting Organization	94
ccNSO - Country Code Names Supporting Organization	178
DNSSEC - Domain Name System Security Extensions	166
Fellowship Program	166
GAC - Governmental Advisory Committee	255
GDD - Global Domains Division	87
GNSO - Generic Names Supporting Organization	249
I* Organization	105
ICANN - Internet Corporation for Assigned Names and Numbers	753
NextGen@ICANN	113
NomCom - Nominating Committee	20
NRO - Number Resource Organization	22
RSSAC - Root Server System Advisory Committee	60
SSAC - Security and Stability Advisory Committee	71
Other / Special Interest Group	321

ICANN Five Regions	
Africa	94
Asia/Australia/Pacific Islands	2,306
Europe	289
Latin America/Caribbean	92
North America	401

ICANN Meeting Seven Regions	
Africa	94
Asia	2,217
Australia/Pacific Islands	55
Eastern Europe and Central Asia	9
Europe	280
Latin America and the Caribbean	92
Middle East	34
North America	401

Attendee Profile Data

	Africa	Asia / Australia / Pacific	Europe	Latin America / Caribbean	North America
Total Participants	94	2,306	289	92	401
First-Time Participants (Newcomers)	19	2,056	41	12	52
Returning Participants	75	250	248	80	349
By Gender					
Female	27	320	77	30	30
Male	54	1,712	165	45	45
Undisclosed	13	273	47	17	17
By Badge Type					
Participant	92	1924	236	66	255
Media	0	122	0	0	0
Sponsor	0	136	13	0	15
Support Staff	0	95	2	17	29
ICANN Staff	1	24	28	7	95
ICANN Board	1	5	10	2	7
By Stakeholder Group					
Academia	10	248	4	11	9
Civil Society / Non-Governmental Organization	13	199	28	20	27
End User	10	150	13	15	31
Government / Inter-Governmental Organization	44	558	48	17	19
Private Sector - Domain Name Industry	18	476	92	7	83
Private Sector - General Business / Legal	7	288	28	3	49
Technical Community	21	378	42	19	66
By Interest Group					
ASO - Address Supporting Organization	3	79	6	2	4
ALAC - At-Large Advisory Committee	12	64	21	12	11
ccNSO - Country Code Names Supporting Organization	26	92	40	10	10
DNSSEC - Domain Name System Security Extensions	7	140	8	2	9
Fellowship Program	13	134	6	12	1
GNSO - Generic Names Supporting Organization	8	102	57	8	74
GDD - Global Domains Division	1	70	8	1	7
GAC - Governmental Advisory Committee	33	151	42	17	12
ICANN - Internet Corporation for Assigned Names and Numbers	7	639	23	7	77
I* Organization	2	90	9	2	2
NextGen@ICANN	3	106	2	1	1
NomCom - Nominating Committee	1	11	2	2	4
NRO - Number Resource Organization	3	15	0	0	4
RSSAC - Root Server System Advisory Committee	1	48	4	0	7
SSAC - Security and Stability Advisory Committee	1	58	4	0	8
Other / Special Interest Group	0	281	12	4	24

Session Statistics Data

Overall Meeting Statistics	
Total Session Counts	381
Total Session Hours	814.75
Actual Attendance for All Sessions	19,489
Checked-In Attendees	3,182

Counts by Session Type	
Sign Up Rooms	11
Closed - Member Only Sessions	101
Open Sessions	269

Mobile App Statistics Data

Top Viewed Sections	Unique Visitors	Pageviews
Meeting Schedule	742	23,698
Participants	335	1,478
Maps	262	774
Infobooth	169	336
Sponsors	148	253

Top Views - By Date	Unique Visitors	Pageviews
05-Nov Sat	493	12,088
04-Nov Fri	434	10,656
06-Nov Sun	415	8,912
07-Nov Mon	390	7,581
03-Nov Thu	382	9,591
08-Nov Tue	325	5,593
02-Nov Wed	194	4,140
09-Nov Wed	189	2,192

Total Pageviews	62,607
Total Unique Visitors	942

Mobile App Device Breakdown	
iOS iPhone/iPad	479
Android	376
Windows	64
Macintosh	25
Blackberry	4
Windows Phone	6
Linux	5

Mobile	865
Desktop	94

Mobile App Attendee Behavior	
Created a Profile	156
Created a Schedule	356
Logged Into the App	473
Total Sessions Favorited	6,045
Total Notes	21

Schedule Website Statistics

Country	Sessions
India	9,771
United States	2,308
United Kingdon	398
Japan	302
China	282
Germany	204
Canada	201
Australia	195
France	180

Device Category	Sessions
Desktop	15,483
Mobile	250
Tablet	661

Browser	Users
Chrome	2,596
Firefox	753
Safari	636
Internet Explorer	397
Edge	129
Opera	21
BlackBerry	12

Demographics - Age	Users
18-24	296
25-34	835
35-44	751
45-54	491
55-64	218
65+	120

User Type	Users
New Visitor	4,587
Returning Visitor	11,807

General Stats	
Sessions	16,394
Users	4,599
Pageviews	55,110
Pages / Session	3.36
Avg. Session Duration	0:05:10
Bounce Rate	39.98%
% New Sessions	25.85%

Language	Sessions
English - United States	11,751
English - United Kingdom	1,096
Chinese	476
Spanish	276
French	264
Japanese	249
German	214

Website Quick Stats	
Attendees Logged In	742
Schedules Created	575
Avg Sessions per Schedule	23.11

Demographics - Gender	Users
Male	1,799
Female	944

Remote Participation Data

Overall Resource Usage	
Adigo Phone Conference Bridge Calls	45
Adigo Phone Conference Total Hours	58.25
PGI/GlobalMeet Conference Bridge Calls	228
PGI/GlobalMeet Conference Total Hours	148
Verizon Conference Bridge Calls	63
Verizon Conference Total Hours	107.3
Remote Participation Manager Requests	245
Remote Participation Manager Total Hours	427.25
Telephone Calls Conducted	586
Telephone Calls Conducted Hours	239

Remote Participation - Adobe Connect	
Total Unique Participants	4,898
Tablet Connections	2,329
Mobile Phone Connections	3,043
Mobile Users	1,063
Mobile Minutes	24,556

Room	Unique Users
G.01	323
G.03	284
Granite Room	94
Hall 1	281
Hall 2	408
Hall 3	1,720
Hall 4	600
Hall 5	305
Hall 6	403
MR 1.01	126
MR 1.02	135
MR 1.03	120
MR 1.04	86

Remote Participation Data

Web Streaming Listeners	
English	144
French	20
Spanish	29
Chinese	35
Russian	35
Arabic	11
Portuguese	9
Total	**283**

Web Streaming Hours [hh.mm]	
English	307.09
French	125.38
Spanish	122.55
Chinese	91.05
Russian	81.18
Arabic	85.21
Portuguese	81.08
	894.32

Recorded Hours [hh.mm]	
English	454.29
French	136.44
Spanish	133.45
Chinese	94.57
Russian	85.10
Arabic	89.27
Portuguese	84.57
Total	**1079.29**

Room	Desktop Users	Mobile Users
G.01	262	61
G.03	141	77
Granite Room	86	8
Hall 1	129	152
Hall 2	280	128
Hall 3	1720	N/A
Hall 4	330	270
Hall 5	138	167
Hall 6	303	100
MR 1.01	91	35
MR 1.02	107	28
MR 1.03	104	16
MR 1.04	66	20

Room	Unique Users	Mobile Users	Total Mobile Mins
G.01	323	61	1,476
G.03	284	77	1,007
Granite Room	94	8	117
Hall 1	281	152	3,262
Hall 2	408	128	2,790
Hall 3	1720	N/A	N/A
Hall 4	600	270	7,831
Hall 5	305	167	3,132
Hall 6	403	100	2,808
MR 1.01	126	35	703
MR 1.02	135	28	429
MR 1.03	120	16	349
MR 1.04	86	20	599
TOTAL	**4,885**	**1,062**	**24,503**

Network Statistics Data

Bandwidth	Mbps
ISP BSNL	400
ISP Tata	400
Total Bandwidth Available	800

Total Data Transferred In/Out	GB
Router 1 - Downloads	3,133
Router 1 - Uploads	1,629
Router 2 - Downloads	4,640
Router 2 - Uploads	338
Total Downloads	7,774
Total Uploads	1,968

Total Traffic Allocation	%
IPv4	92%
IPv6	8%

IPv6 Data Transferred In/Out	GB
Router 1 - IPv6 Downloads	64
Router 1 - IPv6 Uploads	0.5
Router 2 - IPv6 Downloads	564
Router 2 - IPv6 Uploads	0.2
Total IPv6 Downloads	628
Total IPv6 Uploads	0.7

Total Traffic	GB
IPv4 Downloads	7,146
IPv4 Uploads	1,967
IPv6 Downloads	628
IPv6 Uploads	0.7

Average Traffic Speed (30 min.)	Mbps
Average Download Speed	220
Average Upload Speed	60

Peak Bandwidth Utilization	Mbps
Peak Date	6-Nov-16
Router 2	171
Router 1	186
Peak Utilization	357

Peak Wi-Fi Clients	
Peak Date	5-Nov-16
Peak Devices	1,919

Clients by Device Type	%
Android	37%
iPhone	26%
Windows	16%
OS X	15%
iPad	5%
Linux	1%

Network Statistics Data

Wireless Access Point(s)	Unique Clients	Max Clients	Total Data [GB]	Avg Usage
ap7001	1391	43	378.61 GB	3.51 Mbps
ap7002	663	24	52.87 GB	489.92 Kbps
ap7003	1710	57	389.65 GB	3.61 Mbps
ap7004	1150	63	100.78 GB	933.75 Kbps
ap7005	1766	37	108.22 GB	1.11 Mbps
ap7006	3071	121	215.99 GB	2.23 Mbps
ap7007	2855	156	185.56 GB	2.55 Mbps
ap7017	432	41	46.96 GB	470.21 Kbps
ap7018	817	107	236.63 GB	2.19 Mbps
ap7019	881	107	289.36 GB	2.68 Mbps
ap7020	1582	112	268.19 GB	3.63 Mbps
ap7021	1295	84	300.38 GB	3.94 Mbps
ap7022	1816	147	271.25 GB	3.58 Mbps
ap7023	1683	136	291.07 GB	3.94 Mbps
ap7024	1692	117	354.56 GB	4.15 Mbps
ap7025	2135	116	237.62 GB	2.77 Mbps
ap7026	1647	80	226.72 GB	2.61 Mbps
ap7027	1736	105	334.67 GB	3.86 Mbps
ap7028	1379	101	305.64 GB	3.52 Mbps
ap7029	1145	57	160.41 GB	1.85 Mbps
ap7030	1009	55	178.17 GB	2.77 Mbps
ap7031	1238	76	119.44 GB	1.85 Mbps
ap7032	774	37	96.04 GB	1.49 Mbps
ap7033	780	49	116.79 GB	1.81 Mbps
ap7034	749	46	101.71 GB	1.58 Mbps
ap7035	1222	97	262.94 GB	2.44 Mbps
ap7036	611	63	62.37 GB	577.94 Kbps
ap7037	1028	45	100.04 GB	1.01 Mbps
ap7038	499	17	63.92 GB	649.08 Kbps
ap7040	2248	33	41.67 GB	423.04 Kbps
ap7041	1203	26	40.68 GB	562.99 Kbps
ap7042	1591	54	58.62 GB	810.81 Kbps
ap7043	574	14	44.33 GB	511.75 Kbps
ap7044	992	108	49.73 GB	767.49 Kbps
ap7046	1883	91	209.11 GB	2.40 Mbps
ap7047	1281	77	203.76 GB	2.35 Mbps
ap7048	954	120	84.89 GB	1.18 Mbps
ap7049	2340	155	244.29 GB	2.88 Mbps
ap7050	2409	133	319.93 GB	3.77 Mbps
ap7051	914	67	159.72 GB	2.53 Mbps
ap7052	430	19	73.89 GB	763.09 Kbps
ap7053	435	25	60.20 GB	621.45 Kbps
ap7054	2395	31	96.70 GB	1.13 Mbps
ap7055	812	18	49.92 GB	516.57 Kbps
ap7056	970	30	61.27 GB	713.81 Kbps
ap7057	2936	113	271.01 GB	2.51 Mbps
ap7058	490	14	55.09 GB	559.22 Kbps
ap7059	540	25	63.07 GB	640.22 Kbps

ap#### = Aruba wireless access point model AP325
oap#### = Aruba outdoor wireless access point model AP270

Network Statistics Data

Wireless Access Point(s)	Unique Clients	Max Clients	Total Data [GB]	Avg Usage
ap7060	1710	46	48.05 GB	499.92 Kbps
ap7061	2037	48	107.42 GB	1.02 Mbps
ap7062	2185	40	88.31 GB	835.35 Kbps
ap7063	2353	39	75.69 GB	715.54 Kbps
ap7064	2941	127	115.42 GB	1.08 Mbps
ap7070	2066	80	289.18 GB	3.43 Mbps
ap7071	1820	70	118.34 GB	1.40 Mbps
ap7073	1411	58	113.24 GB	1.34 Mbps
ap7075	1484	62	143.13 GB	1.70 Mbps
ap7078	1294	111	117.60 GB	2.15 Mbps
ap7079	1014	62	113.36 GB	2.08 Mbps
ap7080	1073	106	155.61 GB	2.85 Mbps
ap7081	898	56	106.51 GB	1.95 Mbps
ap7082	787	48	120.42 GB	2.21 Mbps
ap7083	756	46	141.66 GB	2.59 Mbps
ap7084	1610	88	112.13 GB	2.06 Mbps
ap7085	1482	59	113.58 GB	2.08 Mbps
ap7086	1340	73	105.80 GB	1.94 Mbps
ap7087	1636	90	146.34 GB	2.69 Mbps
ap7088	1078	42	115.23 GB	2.11 Mbps
ap7089	1511	79	108.18 GB	1.99 Mbps
ap7090	1053	49	108.87 GB	2 Mbps
ap7091	1445	79	125.27 GB	2.30 Mbps
ap7092	1115	49	110.13 GB	2.02 Mbps
ap7093	1072	55	110.47 GB	2.03 Mbps
ap7094	1274	60	125.54 GB	2.30 Mbps
ap7095	1162	55	118.25 GB	2.17 Mbps
ap7096	733	37	88.29 GB	1.62 Mbps
ap7097	846	40	125.95 GB	2.31 Mbps
ap7098	1164	61	115.70 GB	2.12 Mbps
ap7099	677	35	141.61 GB	2.60 Mbps
ap7100	391	14	41.13 GB	381.12 Kbps
Oap6193	1888	280	40.44 GB	423.74 Kbps
Oap6195	3069	185	87.89 GB	901.10 Kbps
Oap7101	1686	235	59.92 GB	1.07 Mbps

ap#### = Aruba wireless access point model AP325
oap#### = Aruba outdoor wireless access point model AP270

ICANN57 By The Numbers

For additional information or for comments
on this report, please contact: mts@icann.org

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